Ministero per i Beni e le Attività Culturali
Direzione Regionale
per i Beni Culturali e Paesaggistici della Calabria
Soprintendenza per i Beni Archeologici della Calabria

Regione Calabria
Dipartimento 12 -Turismo e Beni Culturali-

Accordo di Programma Quadro (APQ)
"Beni e attività culturali per il territorio della Regione Calabria"



CAPOCOLONNA (KR)

Ampliamento delle conoscenze della realtà archeologica di Capocolonna e messa in sicurezza delle strutture archeologiche riportate in luce

Codice APQ	**SPA 2 - 4**	Finanziamento	**Fondo Aree Sottoutilizzate (F.A.S.) - Delibera CIPE n. 84/2000**

PROGETTO DEFINITIVO

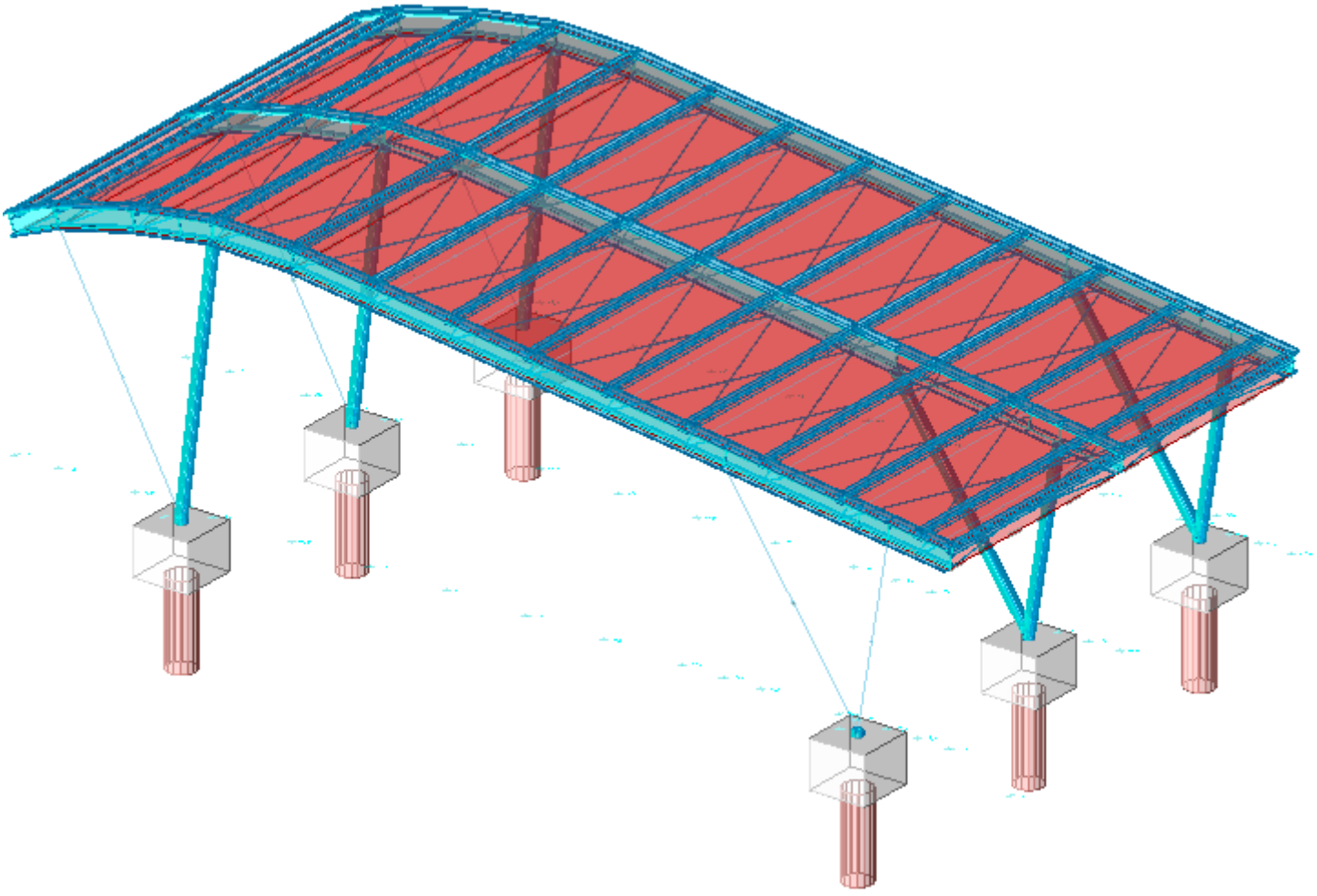
ELABORATO N.	TITOLO ELABORATO :	SCALA:
P.1d.1	**Capo D) Opere di fruibilità e copertura mosaici** **Relazione di calcolo**	

REDAZIONE		VISTI E PARERI	FIRMA E SIGLE
Ufficio di progettazione interno		Perizia di spesa N. del Approvata con Decreto N. del	**I PROGETTISTI**
Responsabile del procedimento	dott.ssa Simonetta BONOMI		
Progettazione	Dott.ssa Maria Grazia AISA Arch. Vincenzo AMMENDOLIA Arch. Elisabetta DOMINIJANNI		
Consulenze e collaborazioni esterne			
Consulenza tecnica	Ing. Angelo Gerardo MAIORINO Ing. Salvatore TALARICO Arch. Fortunato M. CRUGLIANO		**IL DIRETTORE REGIONALE** ***Francesco PROSPERETTI***

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Struttura

1 Normative

D.M. LL. PP. 11-03-88
Norme Tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione ed il collaudo delle opere di sostegno delle terre e delle opere di fondazione.
Circolare Ministeriale del 24-07-88, n. 30483/STC.

Legge 02-02-74 n. 64, art. 1 - D.M. 11-03-88.
Norme Tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la

progettazione, l'esecuzione ed il collaudo delle opere di sostegno delle terre e delle opere di fondazione.
Norme Tecniche per le Costruzioni - D.M. 14-01-08
Sicurezza (cap.2), Azioni sulle costruzioni (cap.3), Costruzioni in calcestruzzo (par.4.1), Costruzioni in legno (par.4.4), Costruzioni in muratura (par.4.5), Progettazione geotecnica (cap.6), Progettazione per azioni sismiche (cap.7), Costruzioni esistenti (cap.8), Riferimenti tecnici (cap.12), EC3.
Eurocodice 3 UNI ENV 1993-1-1:1994, Eurocodice 3 UNI EN 1993-1-1:2005, Eurocodice 3 UNI ENV 1993-1-3:2000, Eurocodice 3 EN 1993-1-8:2005

2 Descrizione del software

DESCRIZIONE DEL PROGRAMMA SISMICAD
Si tratta di un programma di calcolo strutturale che nella versione più estesa è dedicato al progetto e verifica degli elementi in cemento armato, acciaio, muratura e legno di opere civili. Il programma utilizza come analizzatore e solutore del modello strutturale un proprio solutore agli elementi finiti tridimensionale fornito col pacchetto. Il programma è sostanzialmente diviso in tre moduli: un pre processore che consente l'introduzione della geometria e dei carichi e crea il file dati di input al solutore; il solutore agli elementi finiti; un post processore che a soluzione avvenuta elabora i risultati eseguendo il progetto e la verifica delle membrature e producendo i grafici ed i tabulati di output.

SPECIFICHE TECNICHE
Denominazione del software: Sismicad 12.1
Produttore del software: Concrete
Concrete srl, via della Pieve, 15, 35121 PADOVA - Italy
http://www.concrete.it
Rivenditore: CONCRETE SRL - Via della Pieve 19 - 35121 Padova - tel.049-8754720
Versione: 12.1
Identificatore licenza: SW-3348417
Intestatario della licenza: MAIORINO ING. ANGELO GERARDO - LARGO I° LUGLIO - PADULA (SA)
Versione regolarmente licenziata

SCHEMATIZZAZIONE STRUTTURALE E CRITERI DI CALCOLO DELLE SOLLECITAZIONI
Il programma schematizza la struttura attraverso l'introduzione nell'ordine di fondazioni, poste anche a quote diverse, platee, platee nervate, plinti e travi di fondazione poggianti tutte su suolo elastico alla Winkler, di elementi verticali, pilastri e pareti in c.a. anche con fori, di orizzontamenti costituiti da solai orizzontali e inclinati (falde), e relative travi di piano e di falda; è ammessa anche l'introduzione di elementi prismatici in c.a. di interpiano con possibilità di collegamento in inclinato a solai posti a quote diverse. I nodi strutturali possono essere connessi solo a travi, pilastri e pareti, simulando così impalcati infinitamente deformabili nel piano, oppure a elementi lastra di spessore dichiarato dall'utente simulando in tal modo impalcati a rigidezza finita. I nodi appartenenti agli impalcati orizzontali possono essere connessi rigidamente ad uno o più nodi principali giacenti nel piano dell'impalcato; generalmente un nodo principale coincide con il baricentro delle masse. Tale opzione, oltre a ridurre significativamente i tempi di elaborazione, elimina le approssimazioni numeriche connesse all'utilizzo di elementi lastra quando si richiede l'analisi a impalcati infinitamente rigidi. Per quanto concerne i carichi, in fase di immissione dati, vengono definite, in numero a scelta dell'utente, condizioni di carico elementari le quali, in aggiunta alle azioni sismiche e variazioni termiche, vengono combinate attraverso coefficienti moltiplicativi per fornire le combinazioni richieste per le verifiche successive. L'effetto di disassamento delle forze orizzontali, indotto ad esempio dai torcenti di piano per costruzioni in zona sismica, viene simulato attraverso l'introduzione di eccentricità planari aggiuntive le quali costituiscono ulteriori condizioni elementari di carico da cumulare e combinare secondo i criteri del paragrafo precedente. Tipologicamente sono ammessi sulle travi e sulle pareti carichi uniformemente distribuiti e carichi trapezoidali; lungo le aste e nei nodi di incrocio delle membrature sono anche definibili componenti di forze e coppie concentrate comunque dirette nello spazio. Sono previste distribuzioni di temperatura, di intensità a scelta dell'utente, agenti anche su singole porzioni di struttura. Il calcolo delle sollecitazioni si basa sulle seguenti ipotesi e modalità: - travi e pilastri deformabili a sforzo normale, flessione deviata, taglio deviato e momento torcente. Sono previsti coefficienti riduttivi dei momenti di inerzia a scelta dell'utente per considerare la riduzione della rigidezza flessionale e torsionale per effetto della fessurazione del conglomerato cementizio. E' previsto un moltiplicatore della rigidezza assiale dei pilastri per considerare, se pure in modo approssimato, l'accorciamento dei pilastri per sforzo normale durante la costruzione. - le travi di fondazione su suolo alla Winkler sono risolte in forma chiusa tramite uno specifico elemento finito; - le pareti in c.a. sono analizzate schematizzandole come elementi lastra-piastra discretizzati con passo massimo assegnato in fase di immissione dati; - le pareti in muratura possono essere schematizzate con elementi lastra-piastra con spessore flessionale ridotto rispetto allo spessore membranale.- I plinti su suolo alla Winkler sono modellati con la introduzione di molle verticali elastoplastiche. La traslazione orizzontale a scelta dell'utente è bloccata o gestita da molle orizzontali di modulo di reazione proporzionale al verticale. - I pali sono modellati suddividendo l'asta in più aste immerse in terreni di stratigrafia definita dall'utente. Nei nodi di divisione tra le aste vengono inserite molle assialsimmetriche elastoplastiche precaricate dalla spinta a riposo che hanno come pressione limite minima la spinta attiva e come pressione limite massima la spinta passiva modificabile attraverso opportuni coefficienti. - i plinti su pali sono modellati attraverso aste di di rigidezza elevata che collegano un punto della struttura in elevazione con le aste che simulano la presenza dei pali;- le piastre sono discretizzate in un numero finito di elementi lastra-piastra con passo massimo assegnato in fase di immissione dati; nel caso di platee di fondazione i nodi sono collegati al suolo da molle aventi rigidezze alla traslazione verticale ed richiesta anche orizzontale.- La deformabilità nel proprio piano di piani dichiarati non infinitamente rigidi e di falde (piani inclinati) può essere controllata attraverso la introduzione di elementi membranali nelle zone di solaio. - I disassamenti tra elementi asta sono gestiti automaticamente dal programma attraverso la introduzione di collegamenti rigidi locali.- Alle estremità di elementi asta è possibile inserire svincolamenti tradizionali così come cerniere parziali (che trasmettono una quota di ciò che trasmetterebbero in condizioni di collegamento rigido) o cerniere plastiche.- Alle estremità di elementi bidimensionali è possibile inserire svincolamenti con cerniere parziali del momento flettente avente come asse il bordo dell'elemento.- Il calcolo degli effetti del sisma è condotto, a scelta dell'utente, con analisi statica lineare, con analisi dinamica modale o con analisi statica non lineare, in accordo alle varie normative adottate. Le masse, nel caso di impalcati dichiarati rigidi sono concentrate nei nodi principali di piano altrimenti vengono considerate diffuse nei nodi giacenti sull'impalcato stesso. Nel caso di analisi sismica vengono anche controllati gli spostamenti di interpiano.

VERIFICHE DELLE MEMBRATURE IN CEMENTO ARMATO
Nel caso più generale le verifiche degli elementi in c.a. possono essere condotte col metodo delle tensioni ammissibili (D.M. 14-1-92) o agli stati limite in accordo al D.M. 09-01-96, al D.M. 14-01-08 o secondo Eurocodice 2. Le travi sono progettate e verificate a flessione retta e taglio; a richiesta è possibile la verifica per le sei componenti della sollecitazione. I pilastri ed i pali sono verificati per le sei componenti della sollecitazione. Per gli elementi bidimensionali giacenti in un medesimo piano è disponibile la modalità di verifica che consente di analizzare lo stato di verifica nei singoli nodi degli elementi. Nelle verifiche (a presso flessione e punzonamento) è ammessa la introduzione dei momenti di calcolo modificati in base alle direttive dell'EC2, Appendice A.2.8. I plinti superficiali sono verificati assumendo lo schema statico di mensole con incastri posti a filo o in asse pilastro. Gli ancoraggi delle armature delle membrature in c.a. sono calcolati sulla base della effettiva tensione normale che ogni barra assume nella sezione di verifica distinguendo le zone di ancoraggio in zone di buona o cattiva aderenza. In particolare il programma valuta la tensione normale che ciascuna barra può assumere in una sezione sviluppando l'aderenza sulla superficie cilindrica posta a sinistra o a destra della sezione considerata; se in una sezione una barra assume per effetto dell'aderenza una tensione normale minore di quella ammissibile, il suo contributo all'area complessiva viene ridotto dal programma nel rapporto tra la tensione normale che la barra può assumere per effetto dell'aderenza e quella ammissibile. Le verifiche sono effettuate a partire dalle aree di acciaio equivalenti così calcolate che vengono evidenziate in relazione.A seguito di analisi inelastiche eseguite in

accordo a OPCM 3431 o D.M. 14-01-08 vengono condotte verifiche di resistenza per i meccanismi fragili (nodi e taglio) e verifiche di deformabilità per i meccanismi duttili.

VERIFICHE DELLE MEMBRATURE IN ACCIAIO
Le verifiche delle membrature in acciaio (solo per utenti Sismicad acciaio) possono essere condotte secondo CNR 10011 (stato limite o tensioni ammissibili), CNR 10022, Eurocodice 3. Sono previste verifiche di resistenza e di instabilità. Queste ultime possono interessare superelementi cioè membrature composte di più aste. Le verifiche tengono conto, ove richiesto, della distinzione delle condizioni di carico in normali o eccezionali (I e II) previste dalle normative adottate.

3 Descrizione hardware

Processore	Intel(R) Core(TM) i7-3770K CPU @ 3.50GHz
Architettura	x86
Frequenza	3510 MHz
Memoria	15,95 GB
Sistema operativo	Microsoft Windows 7 Professional Service Pack 1 (64 bit)

4 Materiali c.a.

***Descrizione**: Descrizione o nome assegnato all'elemento.*
***Rck**: Resistenza caratteristica cubica; valore medio nel caso di edificio esistente. [daN/cm2]*
***E**: Modulo di elasticità longitudinale del materiale per edifici o materiali nuovi. [daN/cm2]*
***Gamma**: Peso specifico del materiale. [daN/cm3]*
***Poisson**: Coefficiente di Poisson. Il valore è adimensionale.*
***G**: Modulo di elasticità tangenziale del materiale, viene impiegato nella modellazione di aste. [daN/cm2]*
***Alfa**: Coefficiente longitudinale di dilatazione termica. [°C-1]*

Descrizione	Rck	E	Gamma	Poisson	G	Alfa
RCK250	250	285000	0.0025	0.1	129545.58	0.00001
C25/30	300	314472	0.0025	0.1	142941.64	0.00001

5 Caratteristiche avanzate materiali c.a.

***Descrizione**: Descrizione o nome assegnato all'elemento.*
***Curva**: Curva caratteristica.*
- ***Reaz.traz.**: Reagisce a trazione.*
- ***Comp.frag.**: Ha comportamento fragile.*
- ***E.compr.**: Modulo di elasticità a compressione. [daN/cm2]*
- ***Incr.compr.**: Incrudimento di compressione. Il valore è adimensionale.*
- ***EpsEc**: Epsilon elastico a compressione. Il valore è adimensionale.*
- ***EpsUc**: Epsilon ultimo a compressione. Il valore è adimensionale.*
- ***E.traz.**: Modulo di elasticità a trazione. [daN/cm2]*
- ***Incr.traz.**: Incrudimento di trazione. Il valore è adimensionale.*
- ***EpsEt**: Epsilon elastico a trazione. Il valore è adimensionale.*
- ***EpsUt**: Epsilon ultimo a trazione. Il valore è adimensionale.*
- ***Curva di punti**: Curva caratteristica per punti*
  - ***Ind.**: Indice del punto corrente nell'insieme dei punti di definizione dell'elemento.*
  - ***X**: Coordinata X. [cm]*
  - ***Y**: Coordinata Y. [cm]*

Descrizione	Curva												
	Reaz.traz.	Comp.frag.	E.compr.	Incr.compr.	EpsEc	EpsUc	E.traz.	Incr.traz.	EpsEt	EpsUt	Curva di punti		
											Ind.	X	Y
C25/30	No	Si	3.145E05	0	0	0	3.145E05	0	0	0	1	0	-2
											2	0	-1
											3	0	-249
											4	0	-249
											5	0	-249
											6	0	-248
											7	0	-246
											8	0	-244
											9	0	-241
											10	0	-237
											11	0	-232
											12	0	-225
											13	0	-217
											14	0	-208
											15	0	-197
											16	0	-184
											17	0	-168
											18	0	-151
											19	0	-132
											20	0	-110
											21	0	-86
											22	0	-59
											23	0	-31
											24	0	0
											25	0	0

6 Curve di materiali c.a.

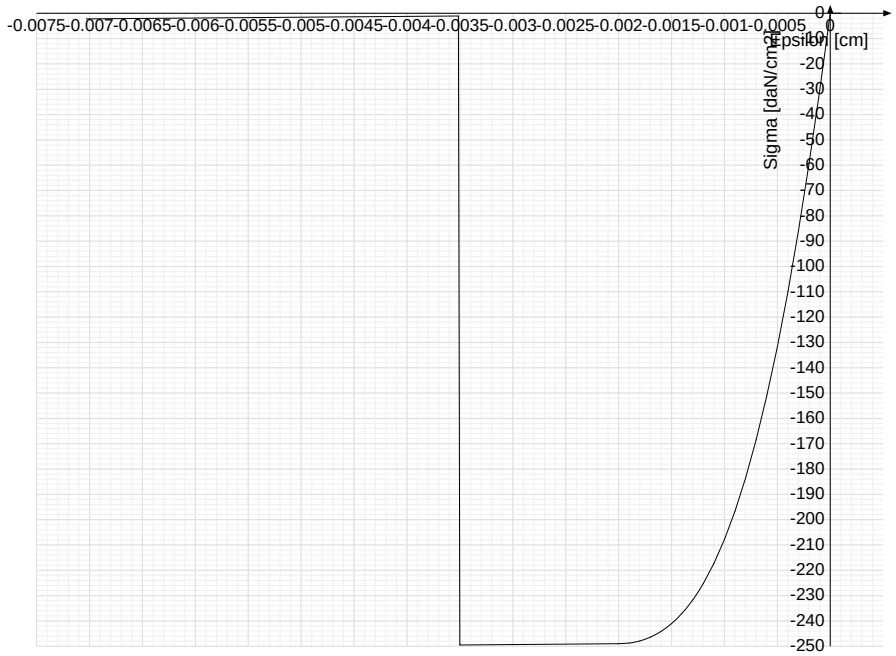
***Rck**: Resistenza caratteristica cubica; valore medio nel caso di edificio esistente. [daN/cm2]*
***E**: Modulo di elasticità longitudinale del materiale per edifici o materiali nuovi. [daN/cm2]*
***Gamma**: Peso specifico del materiale. [daN/cm3]*
***Poisson**: Coefficiente di Poisson. Il valore è adimensionale.*
***G**: Modulo di elasticità tangenziale del materiale, viene impiegato nella modellazione di aste. [daN/cm2]*
***Alfa**: Coefficiente longitudinale di dilatazione termica. [°C-1]*

***Curva**: Curva caratteristica.*
- ***Reaz.traz.**: Reagisce a trazione.*
- ***Comp.frag.**: Ha comportamento fragile.*
- ***E.compr.**: Modulo di elasticità a compressione. [daN/cm2]*
- ***Incr.compr.**: Incrudimento di compressione. Il valore è adimensionale.*
- ***EpsEc**: Epsilon elastico a compressione. Il valore è adimensionale.*
- ***EpsUc**: Epsilon ultimo a compressione. Il valore è adimensionale.*
- ***E.traz.**: Modulo di elasticità a trazione. [daN/cm2]*
- ***Incr.traz.**: Incrudimento di trazione. Il valore è adimensionale.*
- ***EpsEt**: Epsilon elastico a trazione. Il valore è adimensionale.*
- ***EpsUt**: Epsilon ultimo a trazione. Il valore è adimensionale.*

Materiale: C25/30

Rck	E	Gamma	Poisson	G	Alfa
300	314471.61	0.0025	0.1	142941.64	0.00001

Curva									
Reaz.traz.	Comp.frag.	E.compr.	Incr.compr.	EpsEc	EpsUc	E.traz.	Incr.traz.	EpsEt	EpsUt
No	Si	314471.61	0.001	-0.002	-0.0035	314471.61	0.001	0.0000569	0.0000626



7 Proprietà acciai base

***Descrizione**: Descrizione o nome assegnato all'elemento.*
***E**: Modulo di elasticità longitudinale del materiale per edifici o materiali nuovi. [daN/cm2]*
***Gamma**: Peso specifico del materiale. [daN/cm3]*
***Poisson**: Coefficiente di Poisson. Il valore è adimensionale.*
***G**: Modulo di elasticità tangenziale del materiale, viene impiegato nella modellazione di aste. [daN/cm2]*
***Alfa**: Coefficiente longitudinale di dilatazione termica. [°C-1]*

Descrizione	E	Gamma	Poisson	G	Alfa

Descrizione	E	Gamma	Poisson	G	Alfa
FE360	2060000	0.00785	0.3	792307.69	0.000012
S235	2100000	0.00785	0.3	807692.31	0.000012
S275	2100000	0.00785	0.3	807692.31	0.000012

8 Proprietà acciai CNR 10011

***Descrizione**: Descrizione o nome assegnato all'elemento.*
***Tipo**: Descrizione per norma.*
***fy(s<=40 mm)**: Resistenza di snervamento fy per spessori <=40 mm. [daN/cm2]*
***fy(s>40 mm)**: Resistenza di snervamento fy per spessori >40 mm. [daN/cm2]*
***fu(s<=40 mm)**: Resistenza di rottura per trazione fu per spessori <=40 mm. [daN/cm2]*
***fu(s>40 mm)**: Resistenza di rottura per trazione fu per spessori >40 mm. [daN/cm2]*
***Prosp. Omega**: Prospetto per coefficienti Omega.*
***Sig.amm.(s<=40 mm)**: Sigma ammissibile per spessori <=40 mm. [daN/cm2]*
***Sig.amm.(s>40 mm)**: Sigma ammissibile per spessori >40 mm. [daN/cm2]*
***fd(s<=40 mm)**: Resistenza di progetto fd per spessori <=40 mm. [daN/cm2]*
***fd(s>40 mm)**: Resistenza di progetto fd per spessori >40 mm. [daN/cm2]*

Descrizione	Tipo	fy(s<=40 mm)	fy(s>40 mm)	fu(s<=40 mm)	fu(s>40 mm)	Prosp. Omega	Sig.amm.(s<=40 mm)	Sig.amm.(s>40 mm)	fd(s<=40 mm)	fd(s>40 mm)
FE360	FE360	2350	2150	3600	3400	II	1600	1400	2350	2100
S235	FE360	2350	2150	3600	3400	II	1600	1400	2350	2100
S275	FE430	2750	2550	4300	4100	III	1900	1700	2750	2500

9 Proprietà acciai CNR 10022

***Descrizione**: Descrizione o nome assegnato all'elemento.*
***Tipo**: Descrizione per norma.*
***fy**: Resistenza di snervamento fy. [daN/cm2]*
***fu**: Resistenza di rottura fu. [daN/cm2]*
***fd**: Resistenza di progetto fd. [daN/cm2]*
***Prospetto omega sag.fr.(s<3mm)**: Prospetto coeff. omega per spessori < 3 mm.*
***Prospetto omega sag.fr.(s>=3mm)**: Prospetto coeff. omega per spessori >= 3 mm.*
***Prospetti sig.crit. Eulero**: Prospetti sigma critiche euleriane.*

Descrizione	Tipo	fy	fu	fd	Prospetto omega sag.fr.(s<3mm)	Prospetto omega sag.fr.(s>=3mm)	Prospetti sig.crit. Eulero
FE360	FE360	2350	3600	2350	b	c	I
S235	FE360	2350	3600	2350	b	c	I
S275	FE430	2750	4300	2750	d	e	I

10 Sezioni C.A.

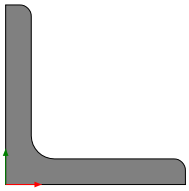
10.1 Caratteristiche inerziali sezioni C.A.

***Descrizione**: Descrizione o nome assegnato all'elemento.*
***Xg**: Ascissa del baricentro definita rispetto al sistema geometrico in cui sono definiti i vertici del poligono. [cm]*
***Yg**: Ordinata del baricentro definita rispetto al sistema geometrico in cui sono definiti i vertici del poligono. [cm]*
***Area**: Area inerziale nel sistema geometrico centrato nel baricentro. [cm2]*
***Jx**: Momento d'inerzia attorno all'asse orizzontale baricentrico di definizione della sezione. [cm4]*
***Jy**: Momento d'inerzia attorno all'asse verticale baricentrico di definizione della sezione. [cm4]*
***Jxy**: Momento centrifugo rispetto al sistema di riferimento baricentrico di definizione della sezione. [cm4]*
***Jm**: Momento d'inerzia attorno all'asse baricentrico principale M. [cm4]*
***Jn**: Momento d'inerzia attorno all'asse baricentrico principale N. [cm4]*
***Alfa**: Angolo tra gli assi del sistema di riferimento geometrico di definizione e quelli del sistema di riferimento principale. [deg]*
***Area Tx FEM**: Area di taglio in direzione X per l'analisi FEM. [cm2]*
***Area Ty FEM**: Area di taglio in direzione Y per l'analisi FEM. [cm2]*
***JxFEM**: Momento di inerzia attorno all'asse X per l'analisi FEM. [cm4]*
***JyFEM**: Momento di inerzia attorno all'asse Y per l'analisi FEM. [cm4]*
***JtFEM**: Momento d'inerzia torsionale corretto con il fattore di forma per l'analisi FEM. [cm4]*

Descrizione	Xg	Yg	Area	Jx	Jy	Jxy	Jm	Jn	Alfa	Area Tx FEM	Area Ty FEM	JxFEM	JyFEM	JtFEM
Circolare (D=60)	0	0	2827.43	6.3E5	6.3E5	0	6.3E5	6.3E5	0	2544.69	2544.69	6.28E05	6.28E05	1.24E06

11 Profili singoli in acciaio

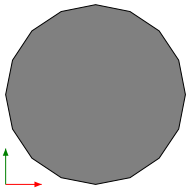
11.1 Profili a L



Descrizione: *Descrizione o nome assegnato all'elemento.*
Curva Omega: *Curva Omega*
Sup.: *Superficie bagnata per unità di lunghezza. [mm]*
Area Tx FEM: *Area di taglio in direzione X per l'analisi FEM. [mm2]*
Area Ty FEM: *Area di taglio in direzione Y per l'analisi FEM. [mm2]*
JxFEM: *Momento di inerzia attorno all'asse X per l'analisi FEM. [mm4]*
JyFEM: *Momento di inerzia attorno all'asse Y per l'analisi FEM. [mm4]*
JtFEM: *Momento d'inerzia torsionale corretto con il fattore di forma per l'analisi FEM. [mm4]*
b: *Larghezza dell'ala. [mm]*
h: *Altezza. [mm]*
s: *Spessore. [mm]*
r: *Raggio del raccordo ala-anima. [mm]*
r1: *Raggio dello smusso dell'ala e dell'anima. [mm]*
f: *Truschino ala. [mm]*
f1: *Truschino anima. [mm]*

Descrizione	Curva Omega	Sup.	Area Tx FEM	Area Ty FEM	JxFEM	JyFEM	JtFEM	b	h	s	r	r1	f	f1
L70*8	C	0	700	700	572216	572216	43333	70	70	10	9	4.5	38	38

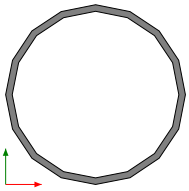
11.2 Tondi



Descrizione: *Descrizione o nome assegnato all'elemento.*
Curva Omega: *Curva Omega*
Sup.: *Superficie bagnata per unità di lunghezza. [mm]*
Area Tx FEM: *Area di taglio in direzione X per l'analisi FEM. [mm2]*
Area Ty FEM: *Area di taglio in direzione Y per l'analisi FEM. [mm2]*
JxFEM: *Momento di inerzia attorno all'asse X per l'analisi FEM. [mm4]*
JyFEM: *Momento di inerzia attorno all'asse Y per l'analisi FEM. [mm4]*
JtFEM: *Momento d'inerzia torsionale corretto con il fattore di forma per l'analisi FEM. [mm4]*
h: *Diametro del tondo. [mm]*

Descrizione	Curva Omega	Sup.	Area Tx FEM	Area Ty FEM	JxFEM	JyFEM	JtFEM	h
OS 9.5	C	29.8	64	64	400	400	800	9.5

11.3 Tubi tondi



Descrizione: *Descrizione o nome assegnato all'elemento.*
Curva Omega: *Curva Omega*
Sup.: *Superficie bagnata per unità di lunghezza. [mm]*
Area Tx FEM: *Area di taglio in direzione X per l'analisi FEM. [mm2]*
Area Ty FEM: *Area di taglio in direzione Y per l'analisi FEM. [mm2]*
JxFEM: *Momento di inerzia attorno all'asse X per l'analisi FEM. [mm4]*
JyFEM: *Momento di inerzia attorno all'asse Y per l'analisi FEM. [mm4]*
JtFEM: *Momento d'inerzia torsionale corretto con il fattore di forma per l'analisi FEM. [mm4]*
h: *Diametro del tondo. [mm]*
s: *Spessore. [mm]*
Categoria: *Categoria, basata sulla tecnologia costruttiva.*

Descrizione	Curva Omega	Sup.	Area Tx FEM	Area Ty FEM	JxFEM	JyFEM	JtFEM	h	s	Categoria

Descrizione	Curva Omega	Sup.	Area Tx FEM	Area Ty FEM	JxFEM	JyFEM	JtFEM	h	s	Categoria
EN10219 219,1x8	A	688.3	2552	2552	29596329	29596329	59192657	219.1	8	Sagomato a freddo conforme UNI 10219

12 Caratteristiche inerziali principali sezioni in acciaio

***Descrizione**: Descrizione o nome assegnato all'elemento.*
***Xg**: Coordinata X del baricentro. [cm]*
***Yg**: Coordinata Y del baricentro. [cm]*
***Area**: Area inerziale nel sistema geometrico centrato nel baricentro. [cm2]*
***Jx**: Momento d'inerzia attorno all'asse orizzontale baricentrico di definizione della sezione. [cm4]*
***Jy**: Momento d'inerzia attorno all'asse verticale baricentrico di definizione della sezione. [cm4]*
***Jxy**: Momento centrifugo rispetto al sistema di riferimento baricentrico di definizione della sezione. [cm4]*
***Jm**: Momento d'inerzia attorno all'asse baricentrico principale M. [cm4]*
***Jn**: Momento d'inerzia attorno all'asse baricentrico principale N. [cm4]*
***Alfa X su M**: Angolo tra gli assi del sistema di riferimento geometrico di definizione e quelli del sistema di riferimento principale. [deg]*
***Jt**: Momento d'inerzia torsionale corretto con il fattore di forma. [cm4]*

Descrizione	Xg	Yg	Area	Jx	Jy	Jxy	Jm	Jn	Alfa X su M	Jt
L70*8	2.09	2.09	13.09	57.22	57.22	-33.27	90.49	23.95	45	4.33
EN10219 219,1x8	10.95	10.95	53.06	2959.63	2959.63	0	2959.63	2959.63	0	5919.27
HEA160	8	7.6	38.82	1674.7	615.61	0	1674.7	615.61	0	8.74
HEB450	15	22.5	218.12	79940.21	11721.84	0	79940.21	11721.84	0	387.92
OS 9.5	0.47	0.47	0.71	0.04	0.04	0	0.04	0.04	0	0.08

13 Caratteristiche inerziali momenti sezioni in acciaio

***Descrizione**: Descrizione o nome assegnato all'elemento.*
***ix**: Raggio di inerzia relativo all'asse x. [cm]*
***iy**: Raggio di inerzia relativo all'asse y. [cm]*
***im**: Raggio di inerzia relativo all'asse principale m. [cm]*
***in**: Raggio di inerzia relativo all'asse principale n. [cm]*
***Sx**: Momento statico relativo all'asse x. [cm3]*
***Sy**: Momento statico relativo all'asse y. [cm3]*
***Wx**: Modulo di resistenza minimo relativo all'asse x. [cm3]*
***Wy**: Modulo di resistenza minimo relativo all'asse y. [cm3]*
***Wm**: Modulo di resistenza minimo relativo all'asse principale m. [cm3]*
***Wn**: Modulo di resistenza minimo relativo all'asse principale n. [cm3]*
***Wplx**: Momento plastico relativo all'asse x. [cm3]*
***Wply**: Momento plastico relativo all'asse y. [cm3]*

Descrizione	ix	iy	im	in	Sx	Sy	Wx	Wy	Wm	Wn	Wplx	Wply
L70*8	2.09	2.09	2.63	1.35	11.76	11.83	11.66	11.66	18.28	8.1	23.52	23.66
EN10219 219,1x8	7.47	7.47	7.47	7.47	171.55	171.55	270.16	270.16	270.16	270.16	356.68	356.68
HEA160	6.57	3.98	6.57	3.98	122.71	58.84	220.36	76.95	220.36	76.95	245.43	117.67
HEB450	19.14	7.33	19.14	7.33	1992.57	598.95	3552.9	781.46	3552.9	781.46	3985.15	1197.9
OS 9.5	0.24	0.24	0.24	0.24	0.07	0.07	0.08	0.08	0.08	0.08	0.14	0.14

14 Caratteristiche inerziali taglio sezioni in acciaio

***Descrizione**: Descrizione o nome assegnato all'elemento.*
***Atx**: Area a taglio lungo x. [cm2]*
***Aty**: Area a taglio lungo y. [cm2]*

Descrizione	Atx	Aty
L70*8	7	7
EN10219 219,1x8	53.06	53.06
HEA160	28.8	9.12
HEB450	156	63
OS 9.5	0.71	0.71

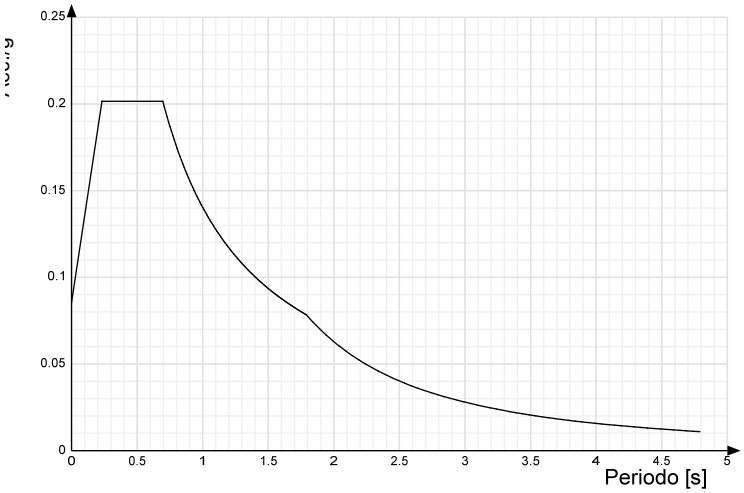
15 Preferenze di analisi

Metodo di analisi	D.M. 14-01-08 (N.T.C.)
Tipo di costruzione	2
Vn	50
Classe d'uso	II
Vr	50
Tipo di analisi	Lineare statica
Località	Crotone, Isola Di Capo Rizzuto, Marinella - Latitudine (deg) 39,0265°; Longitudine (deg) 17,2046° (N 39° 1' 35"; E 17° 12' 17") ED50
Zona sismica	Zona 1

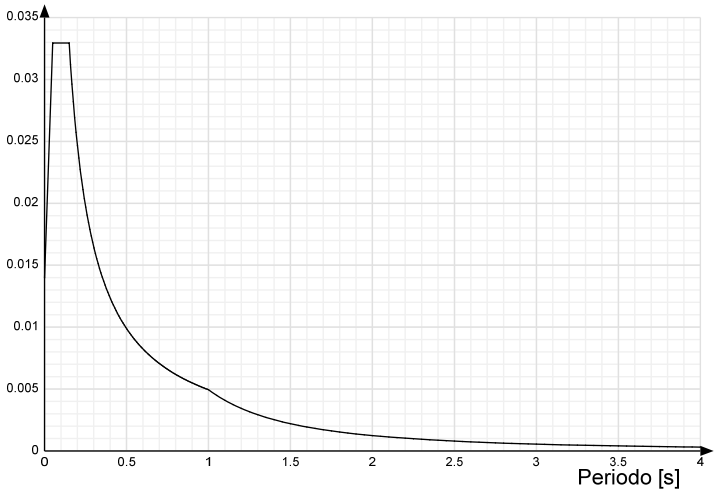
Categoria del suolo	D - terreni sciolti o inconsistenti	
Categoria topografica	T1	
Ss orizzontale SLD	1.8	
Tb orizzontale SLD	0.232	[s]
Tc orizzontale SLD	0.696	[s]
Td orizzontale SLD	1.79	[s]
Ss orizzontale SLV	1.8	
Tb orizzontale SLV	0.263	[s]
Tc orizzontale SLV	0.789	[s]
Td orizzontale SLV	2.103	[s]
Ss verticale	1	
Tb verticale	0.05	[s]
Tc verticale	0.15	[s]
Td verticale	1	[s]
St	1	
PVr SLD (%)	63	
Tr SLD	50	
Ag/g SLD	0.0475	
Fo SLD	2.357	
Tc* SLD	0.31	
PVr SLV (%)	10	
Tr SLV	475	
Ag/g SLV	0.1257	
Fo SLV	2.446	
Tc* SLV	0.399	
Smorzamento viscoso (%)	5	
Classe di duttilità	Non dissipativa	
Rotazione del sisma	0	[deg]
Quota dello '0' sismico	0	[cm]
Regolarità in pianta	No	
Regolarità in elevazione	Si	
Edificio acciaio	Si	
Tipologia acciaio	d) Strutture a mensola o pendolo inverso q0=2.0	
Edificio esistente	No	
Altezza costruzione	450	[cm]
C1	0.05	
T1	0.154	[s]
Lambda SLD	1	
Lambda SLV	1	
Lambda verticale	1	
Torsione accidentale semplificata	No	
Torsione accidentale per piani (livelli e falde) flessibili	No	
Eccentricità X (per sisma Y) livello "fondpali"	0	[cm]
Eccentricità Y (per sisma X) livello "fondpali"	0	[cm]
Eccentricità X (per sisma Y) livello "Fondazione"	0	[cm]
Eccentricità Y (per sisma X) livello "Fondazione"	0	[cm]
Eccentricità X (per sisma Y) livello "Piano 1"	0	[cm]
Eccentricità Y (per sisma X) livello "Piano 1"	0	[cm]
Limite spostamenti interpiano	0.005	
Moltiplicatore sisma X per combinazioni di default	1	
Moltiplicatore sisma Y per combinazioni di default	1	
Fattore di struttura per sisma X	1	
Fattore di struttura per sisma Y	1	
Fattore di struttura per sisma Z	1	
Applica 1% (§ 3.1.1)	No	
Coefficiente di sicurezza portanza fondazioni superficiali	2.3	
Coefficiente di sicurezza scorrimento fondazioni superficiali	1.1	
Coefficiente di sicurezza portanza verticale pali infissi, punta	1.15	
Coefficiente di sicurezza portanza verticale pali infissi, laterale compressione	1.15	
Coefficiente di sicurezza portanza verticale pali infissi, laterale trazione	1.25	
Coefficiente di sicurezza portanza verticale pali trivellati, punta	1.35	
Coefficiente di sicurezza portanza verticale pali trivellati, laterale compressione	1.15	
Coefficiente di sicurezza portanza verticale pali trivellati, laterale trazione	1.25	
Coefficiente di sicurezza portanza verticale micropali, punta	1.35	
Coefficiente di sicurezza portanza verticale micropali, laterale compressione	1.15	
Coefficiente di sicurezza portanza verticale micropali, laterale trazione	1.25	
Coefficiente di sicurezza portanza trasversale pali	1.3	
Fattore di correlazione resistenza caratteristica dei pali in base alle verticali indagate	1.7	

16 Spettri NTC 08

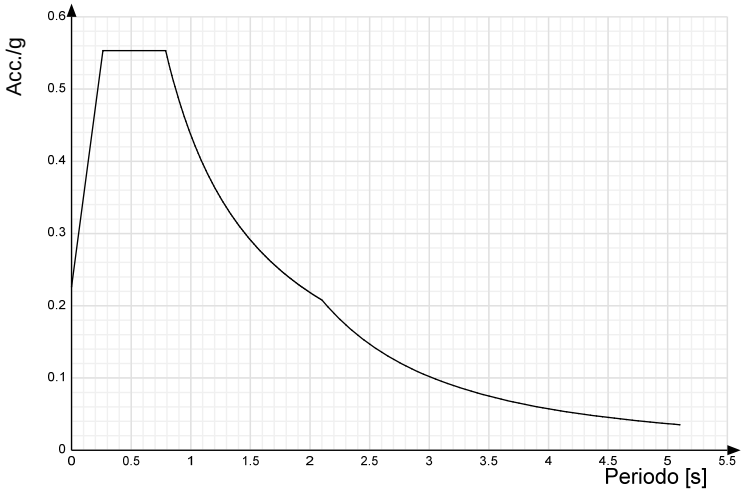
Spettro di risposta elastico in accelerazione delle componenti orizzontali SLD § 3.2.3.2.1 (3.2.4)



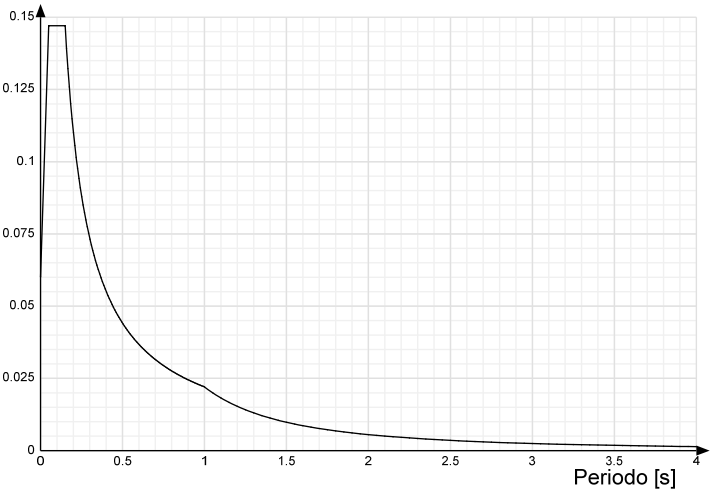
Spettro di risposta elastico in accelerazione della componente verticale SLD § 3.2.3.2.2 (3.2.10)



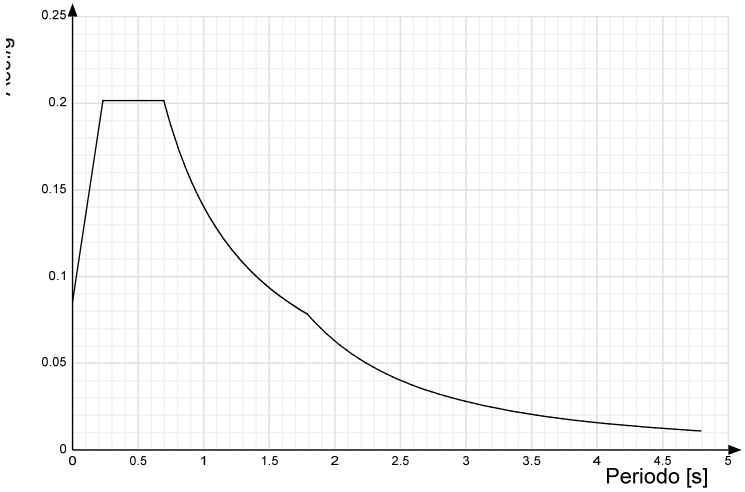
Spettro di risposta elastico in accelerazione delle componenti orizzontali SLV § 3.2.3.2.1 (3.2.4)



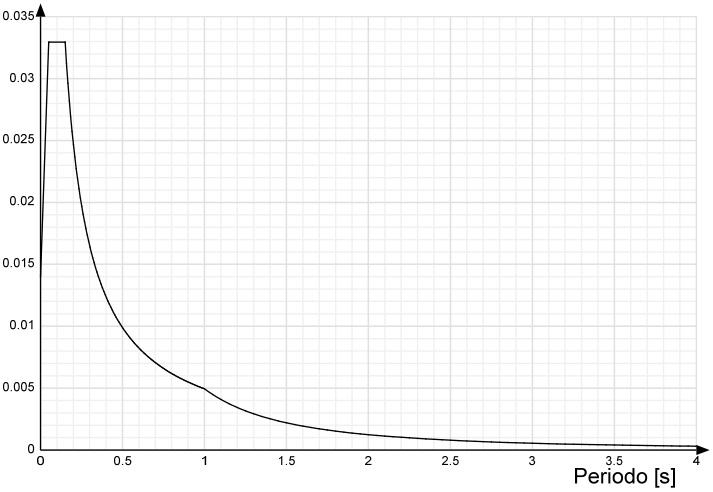
Spettro di risposta elastico in accelerazione della componente verticale SLV § 3.2.3.2.2 (3.2.10)



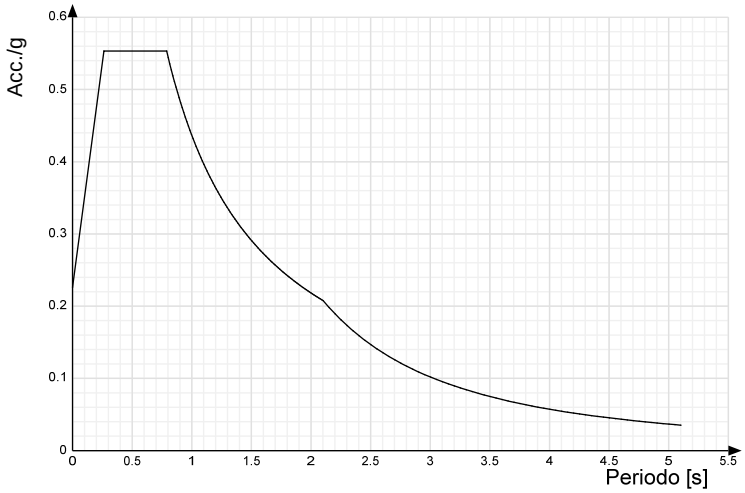
Spettro di risposta di progetto in accelerazione delle componenti orizzontali SLD § 3.2.3.4



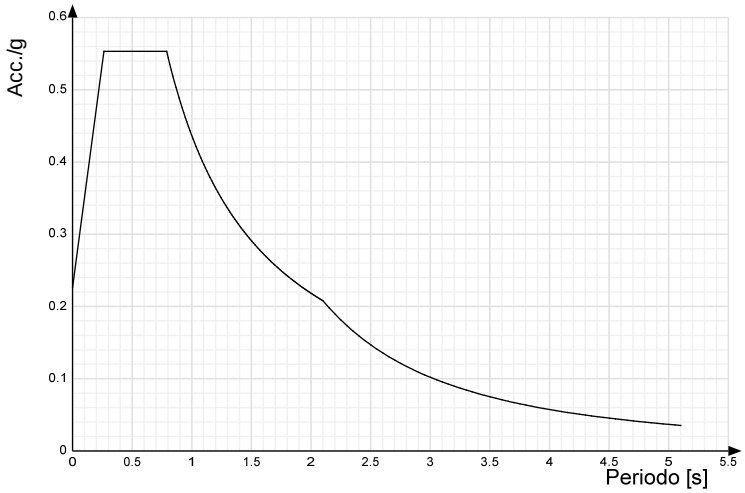
Spettro di risposta di progetto in accelerazione della componente verticale SLD § 3.2.3.4



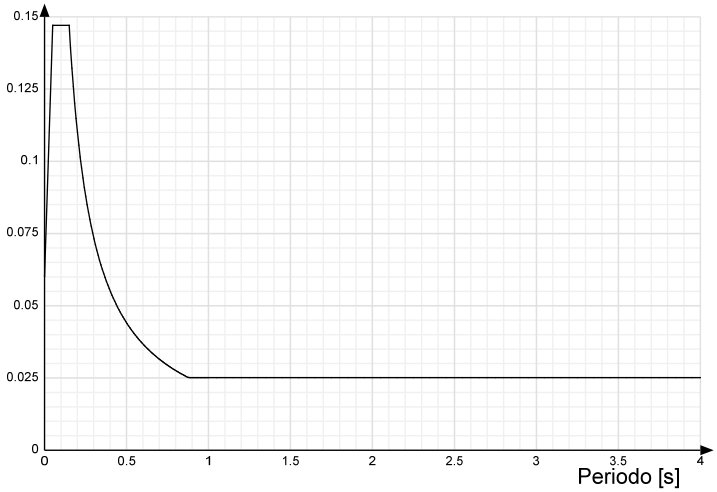
Spettro di risposta di progetto in accelerazione della componente X SLV § 3.2.3.5



Spettro di risposta di progetto in accelerazione della componente Y SLV § 3.2.3.5



Spettro di risposta di progetto in accelerazione della componente verticale SLV § 3.2.3.5



17 Normativa di verifica in uso

Norma di verifica	D.M. 14-01-08 (N.T.C.)
Cemento armato	Preferenze analisi di verifica in stato limite
Legno	Preferenze di verifica legno NTC08
Acciaio	Preferenze di verifica acciaio EC3
Alluminio	Preferenze di verifica alluminio EC3
Psi	

18 Normativa di verifica C.A.

Coefficiente di omogeneizzazione

Gamma s (fattore di sicurezza parziale per l'acciaio)	1.15	
Gamma c (fattore di sicurezza parziale per il calcestruzzo)	1.5	
Limite sigmac/fck in combinazione rara	0.6	
Limite sigmac/fck in combinazione quasi permanente	0.45	
Limite sigmaf/fyk in combinazione rara	0.8	
Coefficiente di riduzione della tau per cattiva aderenza	0.7	
Dimensione limite fessure w1 §4.1.2.2.4.1	0.02	[cm]
Dimensione limite fessure w2 §4.1.2.2.4.1	0.03	[cm]
Dimensione limite fessure w3 §4.1.2.2.4.1	0.04	[cm]
Fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q	No	
Copriferro secondo EC2	Si	

19 Normativa di verifica acciaio

Gamma_m0	1.05	
Gamma_m1	1.05	
Gamma_m2	1.25	
Coefficiente riduttivo per effetto vettoriale	0.7	
Calcolo coefficienti C1, C2, C3 per Mcr	automatico	
Coefficienti alfa, beta per flessione deviata	non unitari	
Verifica semplificata conservativa	si	
L/e0 iniziale per profili accoppiati compressi	500	
Metodo semplificato formula (4.2.76)	si	
Escludi 6.2.6.7 e 6.2.6.8 in 7.5.4.4 e 7.5.4.6	si	
Applica Nota 1 del propspetto 6.2	si	
Riduzione fy per sezioni di classe 4	no	
Effettua la verifica secondo 6.2.8 con irrigidimenti superiori (piastra di base).	si	

20 Preferenze FEM

Dimensione massima ottimale mesh pareti (default)	80	[cm]
Dimensione massima ottimale mesh piastre (default)	80	[cm]
Tipo di mesh dei gusci (default)	Quadrilateri o triangoli	
Tipo di mesh imposta ai gusci	Specifico dell'elemento	
Metodo P-Delta	non utilizzato	
Analisi buckling	non utilizzata	
Rapporto spessore flessionale/membranale gusci muratura verticali	0.2	
Rapporto spessore flessionale/membranale gusci di pareti in legno	1	
Tolleranza di parallelismo	4.99	[deg]
Tolleranza di unicità punti	10	[cm]
Tolleranza generazione nodi di aste	1	[cm]
Tolleranza di parallelismo in suddivisione aste	4.99	[deg]
Tolleranza generazione nodi di gusci	4	[cm]
Tolleranza eccentricità carichi concentrati	100	[cm]
Considera deformazione a taglio delle piastre	No	
Modello elastico pareti in muratura	Gusci	
Concentra masse pareti nei vertici	No	
Segno risultati analisi spettrale	Analisi statica	
Memoria utilizzabile dal solutore	8000000	
Metodo di risoluzione della matrice	Matrici sparse	
Scrivi commenti nel file di input	No	
Scrivi file di output in formato testo	No	
Solidi colle e corpi ruvidi (default)	Solidi reali	
Moltiplicatore rigidezza molla torsionale applicata ad aste di fondazione	1	
Modello trave su suolo alla Winkler nel caso di modellazione lineare	Equilibrio elastico	

21 Preferenze del suolo

Fondazioni non modellate e struttura bloccata alla base	no	
Fondazioni bloccate orizzontalmente	no	
Considera peso sismico delle fondazioni	no	
Fondazioni superficiali e profonde su suolo elastoplastico	no	
Coefficiente di sottofondo verticale per fondazioni superficiali (default)	3	[daN/cm3]
Rapporto di coefficiente sottofondo orizzontale/verticale	0.5	
Pressione verticale limite sul terreno per abbassamento (default)	10	[daN/cm2]
Pressione verticale limite sul terreno per innalzamento (default)	0.001	[daN/cm2]
Metodo di calcolo della K verticale	Vesic	
Metodo di calcolo della portanza e della pressione limite	Vesic	
Terreno laterale di riporto da piano posa fondazioni (default)	Riporto_1	
Dimensione massima della discretizzazione del palo (default)	200	[cm]
Moltiplicatore coesione per pressione orizzontale limite nei pali	1	
Moltiplicatore spinta passiva per pressione orizzontale pali	1	
K punta palo (default)	4	[daN/cm3]
Pressione limite punta palo (default)	10	[daN/cm2]
Pressione per verifica schiacciamento fondazioni superficiali	6	[daN/cm2]
Calcola cedimenti fondazioni superficiali	no	
Spessore massimo strato	100	[cm]
Profondità massima	3000	[cm]
Cedimento assoluto ammissibile	5	[cm]
Cedimento differenziale ammissibile	5	[cm]
Cedimento relativo ammissibile	5	[cm]
Rapporto di inflessione F/L ammissibile	0.003333	
Rotazione rigida ammissibile	0.191	[deg]
Rotazione assoluta ammissibile	0.191	[deg]
Distorsione positiva ammissibile	0.191	[deg]
Distorsione negativa ammissibile	0.095	[deg]
Considera fondazioni compensate	no	
Coefficiente di riduzione della a Max attesa	0.3	
Condizione per la valutazione della spinta su pareti	Lungo termine	
Considera l'azione sismica del terreno anche su pareti sotto lo zero sismico	no	

22 Preferenze progetto acciaio

Default Beta X/m cerniera-cerniera	1
Default Beta Y/n cerniera-cerniera	1
Default Beta X/m cerniera-incastro	0.8
Default Beta Y/n cerniera-incastro	0.8
Default Beta X/m incastro-incastro	0.7
Default Beta Y/n incastro-incastro	0.7
Default Beta X/m incastro-libero	2
Default Beta Y/n incastro-libero	2
Default luce su freccia per travi	400
Limite spostamento relativo interpiano e monopiano colonne	0.00333
Limite spostamento relativo complessivo multipiano colonne	0.002
Rapporto di sottoutilizzo	0.8
Modalità di utilizzo del nomogramma	nodi fissi
Valutazione delle frecce nelle mensole considerando spostamento relativo tra nodo iniziale e nodo finale	si

23 Condizioni elementari di carico

***Descrizione**: Nome assegnato alla condizione elementare.*
***Nome breve**: Nome breve assegnato alla condizione elementare.*
***I/II**: Descrive la classificazione della condizione (necessario per strutture in acciaio e in legno).*
***Durata**: Descrive la durata della condizione (necessario per strutture in legno).*
***Psi0**: Coefficiente moltiplicatore Psi0. Il valore è adimensionale.*
***Psi1**: Coefficiente moltiplicatore Psi1. Il valore è adimensionale.*
***Psi2**: Coefficiente moltiplicatore Psi2. Il valore è adimensionale.*
***Var.segno**: Descrive se la condizione elementare ha la possibilità di variare di segno.*

Descrizione	Nome breve	I/II	Durata	Psi0	Psi1	Psi2	Var.segno
Pesi strutturali	Pesi		Permanente	0	0	0	
Permanenti portati	Port.	I	Permanente	0	0	0	
Neve	Neve	I	Media	0.5	0.2	0	
Vento X	Vento X	I	Media	0.6	0.2	0	
Vento Y	Vento Y	I	Media	0.6	0.2	0	
Delta T	Dt	II	Media	0.6	0.5	0	No
Sisma X SLV	X SLV			0	0	0	
Sisma Y SLV	Y SLV			0	0	0	
Sisma Z SLV	Z SLV			0	0	0	
Eccentricità Y per sisma X SLV	EY SLV			0	0	0	
Eccentricità X per sisma Y SLV	EX SLV			0	0	0	
Sisma X SLD	X SLD			0	0	0	
Sisma Y SLD	Y SLD			0	0	0	
Sisma Z SLD	Z SLD			0	0	0	
Eccentricità Y per sisma X SLD	EY SLD			0	0	0	
Eccentricità X per sisma Y SLD	EX SLD			0	0	0	
Rig. Ux	R Ux			0	0	0	
Rig. Uy	R Uy			0	0	0	
Rig. Rz	R Rz			0	0	0	

24 Combinazioni di carico

Tutte le combinazioni di carico vengono raggruppate per famiglia di appartenenza. Le celle di una riga contengono i coefficienti moltiplicatori della i-esima combinazione, dove il valore della prima cella è da intendersi come moltiplicatore associato alla prima condizione elementare, la seconda cella si riferisce alla seconda condizione elementare e così via.

Famiglia SLU

Il nome compatto della famiglia è SLU.

Nome	Nome breve	Pesi	Port.	Neve	Vento X	Vento Y	Dt
1	**SLU 1**	1	0	0	0	0	0
2	**SLU 2**	1	0	0	0	1.5	0
3	**SLU 3**	1	0	0	0.9	1.5	0
4	**SLU 4**	1	0	0	1.5	0	0
5	**SLU 5**	1	0	0	1.5	0.9	0
6	**SLU 6**	1	0	0.75	0	1.5	0
7	**SLU 7**	1	0	0.75	0.9	1.5	0
8	**SLU 8**	1	0	0.75	1.5	0	0
9	**SLU 9**	1	0	0.75	1.5	0.9	0
10	**SLU 10**	1	0	1.5	0	0	0
11	**SLU 11**	1	0	1.5	0	0.9	0
12	**SLU 12**	1	0	1.5	0.9	0	0
13	**SLU 13**	1	0	1.5	0.9	0.9	0
14	**SLU 14**	1	1.5	0	0	0	0
15	**SLU 15**	1	1.5	0	0	1.5	0
16	**SLU 16**	1	1.5	0	0.9	1.5	0
17	**SLU 17**	1	1.5	0	1.5	0	0
18	**SLU 18**	1	1.5	0	1.5	0.9	0
19	**SLU 19**	1	1.5	0.75	0	1.5	0
20	**SLU 20**	1	1.5	0.75	0.9	1.5	0
21	**SLU 21**	1	1.5	0.75	1.5	0	0
22	**SLU 22**	1	1.5	0.75	1.5	0.9	0
23	**SLU 23**	1	1.5	1.5	0	0	0
24	**SLU 24**	1	1.5	1.5	0	0.9	0
25	**SLU 25**	1	1.5	1.5	0.9	0	0
26	**SLU 26**	1	1.5	1.5	0.9	0.9	0
27	**SLU 27**	1.3	0	0	0	0	0
28	**SLU 28**	1.3	0	0	0	1.5	0
29	**SLU 29**	1.3	0	0	0.9	1.5	0
30	**SLU 30**	1.3	0	0	1.5	0	0

Nome	Nome breve	Pesi	Port.	Neve	Vento X	Vento Y	Dt
31	SLU 31	1.3	0	0	1.5	0.9	0
32	SLU 32	1.3	0	0.75	0	1.5	0
33	SLU 33	1.3	0	0.75	0.9	1.5	0
34	SLU 34	1.3	0	0.75	1.5	0	0
35	SLU 35	1.3	0	0.75	1.5	0.9	0
36	SLU 36	1.3	0	1.5	0	0	0
37	SLU 37	1.3	0	1.5	0	0.9	0
38	SLU 38	1.3	0	1.5	0.9	0	0
39	SLU 39	1.3	0	1.5	0.9	0.9	0
40	SLU 40	1.3	1.5	0	0	0	0
41	SLU 41	1.3	1.5	0	0	1.5	0
42	SLU 42	1.3	1.5	0	0.9	1.5	0
43	SLU 43	1.3	1.5	0	1.5	0	0
44	SLU 44	1.3	1.5	0	1.5	0.9	0
45	SLU 45	1.3	1.5	0.75	0	1.5	0
46	SLU 46	1.3	1.5	0.75	0.9	1.5	0
47	SLU 47	1.3	1.5	0.75	1.5	0	0
48	SLU 48	1.3	1.5	0.75	1.5	0.9	0
49	SLU 49	1.3	1.5	1.5	0	0	0
50	SLU 50	1.3	1.5	1.5	0	0.9	0
51	SLU 51	1.3	1.5	1.5	0.9	0	0
52	SLU 52	1.3	1.5	1.5	0.9	0.9	0

Famiglia SLE rara

Il nome compatto della famiglia è SLE RA.

Nome	Nome breve	Pesi	Port.	Neve	Vento X	Vento Y	Dt
1	SLE RA 1	1	1	0	0	0	0
2	SLE RA 2	1	1	0	0	1	0
3	SLE RA 3	1	1	0	0.6	1	0
4	SLE RA 4	1	1	0	1	0	0
5	SLE RA 5	1	1	0	1	0.6	0
6	SLE RA 6	1	1	0.5	0	1	0
7	SLE RA 7	1	1	0.5	0.6	1	0
8	SLE RA 8	1	1	0.5	1	0	0
9	SLE RA 9	1	1	0.5	1	0.6	0
10	SLE RA 10	1	1	1	0	0	0
11	SLE RA 11	1	1	1	0	0.6	0
12	SLE RA 12	1	1	1	0.6	0	0
13	SLE RA 13	1	1	1	0.6	0.6	0

Famiglia SLE frequente

Il nome compatto della famiglia è SLE FR.

Nome	Nome breve	Pesi	Port.	Neve	Vento X	Vento Y	Dt
1	SLE FR 1	1	1	0	0	0	0
2	SLE FR 2	1	1	0	0	0.2	0
3	SLE FR 3	1	1	0	0.2	0	0
4	SLE FR 4	1	1	0.2	0	0	0

Famiglia SLE quasi permanente

Il nome compatto della famiglia è SLE QP.

Nome	Nome breve	Pesi	Port.	Neve	Vento X	Vento Y	Dt
1	SLE QP 1	1	1	0	0	0	0

Famiglia SLU eccezionale

Il nome compatto della famiglia è SLU EX.

Nome	Nome breve	Pesi	Port.	Neve	Vento X	Vento Y	Dt

Famiglia SLD

Il nome compatto della famiglia è SLD.

Nome	Nome breve	Pesi	Port.	Neve	Vento X	Vento Y	Dt	X SLD	Y SLD	Z SLD	EY SLD	EX SLD
1	SLD 1	1	1	0	0	0	0	-1	-0.3	0	-1	0.3
2	SLD 2	1	1	0	0	0	0	-1	-0.3	0	1	-0.3
3	SLD 3	1	1	0	0	0	0	-1	0.3	0	-1	0.3
4	SLD 4	1	1	0	0	0	0	-1	0.3	0	1	-0.3
5	SLD 5	1	1	0	0	0	0	-0.3	-1	0	-0.3	1
6	SLD 6	1	1	0	0	0	0	-0.3	-1	0	0.3	-1
7	SLD 7	1	1	0	0	0	0	-0.3	1	0	-0.3	1
8	SLD 8	1	1	0	0	0	0	-0.3	1	0	0.3	-1
9	SLD 9	1	1	0	0	0	0	0.3	-1	0	-0.3	1
10	SLD 10	1	1	0	0	0	0	0.3	-1	0	0.3	-1
11	SLD 11	1	1	0	0	0	0	0.3	1	0	-0.3	1
12	SLD 12	1	1	0	0	0	0	0.3	1	0	0.3	-1
13	SLD 13	1	1	0	0	0	0	1	-0.3	0	-1	0.3
14	SLD 14	1	1	0	0	0	0	1	-0.3	0	1	-0.3
15	SLD 15	1	1	0	0	0	0	1	0.3	0	-1	0.3
16	SLD 16	1	1	0	0	0	0	1	0.3	0	1	-0.3

Famiglia SLV

Il nome compatto della famiglia è SLV.

Nome	Nome breve	Pesi	Port.	Neve	Vento X	Vento Y	Dt	X SLV	Y SLV	Z SLV	EY SLV	EX SLV
1	SLV 1	1	1	0	0	0	0	-1	-0.3	0	-1	0.3
2	SLV 2	1	1	0	0	0	0	-1	-0.3	0	1	-0.3
3	SLV 3	1	1	0	0	0	0	-1	0.3	0	-1	0.3
4	SLV 4	1	1	0	0	0	0	-1	0.3	0	1	-0.3
5	SLV 5	1	1	0	0	0	0	-0.3	-1	0	-0.3	1
6	SLV 6	1	1	0	0	0	0	-0.3	-1	0	0.3	-1
7	SLV 7	1	1	0	0	0	0	-0.3	1	0	-0.3	1
8	SLV 8	1	1	0	0	0	0	-0.3	1	0	0.3	-1
9	SLV 9	1	1	0	0	0	0	0.3	-1	0	-0.3	1
10	SLV 10	1	1	0	0	0	0	0.3	-1	0	0.3	-1
11	SLV 11	1	1	0	0	0	0	0.3	1	0	-0.3	1
12	SLV 12	1	1	0	0	0	0	0.3	1	0	0.3	-1
13	SLV 13	1	1	0	0	0	0	1	-0.3	0	-1	0.3
14	SLV 14	1	1	0	0	0	0	1	-0.3	0	1	-0.3
15	SLV 15	1	1	0	0	0	0	1	0.3	0	-1	0.3
16	SLV 16	1	1	0	0	0	0	1	0.3	0	1	-0.3

Famiglia SLV fondazioni

Il nome compatto della famiglia è SLV FO.

Nome	Nome breve	Pesi	Port.	Neve	Vento X	Vento Y	Dt	X SLV	Y SLV	Z SLV	EY SLV	EX SLV
1	SLV FO 1	1	1	0	0	0	0	-1	-0.3	0	-1	0.3
2	SLV FO 2	1	1	0	0	0	0	-1	-0.3	0	1	-0.3
3	SLV FO 3	1	1	0	0	0	0	-1	0.3	0	-1	0.3
4	SLV FO 4	1	1	0	0	0	0	-1	0.3	0	1	-0.3
5	SLV FO 5	1	1	0	0	0	0	-0.3	-1	0	-0.3	1
6	SLV FO 6	1	1	0	0	0	0	-0.3	-1	0	0.3	-1
7	SLV FO 7	1	1	0	0	0	0	-0.3	1	0	-0.3	1
8	SLV FO 8	1	1	0	0	0	0	-0.3	1	0	0.3	-1
9	SLV FO 9	1	1	0	0	0	0	0.3	-1	0	-0.3	1
10	SLV FO 10	1	1	0	0	0	0	0.3	-1	0	0.3	-1
11	SLV FO 11	1	1	0	0	0	0	0.3	1	0	-0.3	1
12	SLV FO 12	1	1	0	0	0	0	0.3	1	0	0.3	-1
13	SLV FO 13	1	1	0	0	0	0	1	-0.3	0	-1	0.3
14	SLV FO 14	1	1	0	0	0	0	1	-0.3	0	1	-0.3
15	SLV FO 15	1	1	0	0	0	0	1	0.3	0	-1	0.3
16	SLV FO 16	1	1	0	0	0	0	1	0.3	0	1	-0.3

Famiglia Calcolo rigidezza torsionale/flessionale di piano

Il nome compatto della famiglia è CRTFP.

Nome	Nome breve	R Ux	R Uy	R Rz
Rig. Ux+	CRTFP Ux+	1	0	0
Rig. Ux-	CRTFP Ux-	-1	0	0
Rig. Uy+	CRTFP Uy+	0	1	0
Rig. Uy-	CRTFP Uy-	0	-1	0
Rig. Rz+	CRTFP Rz+	0	0	1
Rig. Rz-	CRTFP Rz-	0	0	-1

25 Definizioni di carichi lineari

***Nome**: Nome identificativo della definizione di carico.*
***Valori**: Valori associati alle condizioni di carico.*
***Condizione**: Condizione di carico a cui sono associati i valori.*
***Descrizione**: Nome assegnato alla condizione elementare.*
***Fx i.**: Valore iniziale della forza, per unità di lunghezza, agente in direzione X. [daN/cm]*
***Fx f.**: Valore finale della forza, per unità di lunghezza, agente in direzione X. [daN/cm]*
***Fy i.**: Valore iniziale della forza, per unità di lunghezza, agente in direzione Y. [daN/cm]*
***Fy f.**: Valore finale della forza, per unità di lunghezza, agente in direzione Y. [daN/cm]*
***Fz i.**: Valore iniziale della forza, per unità di lunghezza, agente in direzione Z. [daN/cm]*
***Fz f.**: Valore finale della forza, per unità di lunghezza, agente in direzione Z. [daN/cm]*
***Mx i.**: Valore iniziale della coppia, per unità di lunghezza, agente attorno l'asse X. [daN]*
***Mx f.**: Valore finale della coppia, per unità di lunghezza, agente attorno l'asse X. [daN]*
***My i.**: Valore iniziale della coppia, per unità di lunghezza, agente attorno l'asse Y. [daN]*
***My f.**: Valore finale della coppia, per unità di lunghezza, agente attorno l'asse Y. [daN]*
***Mz i.**: Valore iniziale della coppia, per unità di lunghezza, agente attorno l'asse Z. [daN]*
***Mz f.**: Valore finale della coppia, per unità di lunghezza, agente attorno l'asse Z. [daN]*

Nome	Valori												
	Condizione	Fx i.	Fx f.	Fy i.	Fy f.	Fz i.	Fz f.	Mx i.	Mx f.	My i.	My f.	Mz i.	Mz f.
	Descrizione												
Vento X	Pesi strutturali	0	0	0	0	0	0	0	0	0	0	0	0
	Permanenti portati	0	0	0	0	0	0	0	0	0	0	0	0
	Neve	0	0	0	0	0	0	0	0	0	0	0	0
	Vento X	0.4	0.4	0	0	0	0	0	0	0	0	0	0
	Vento Y	0	0	0	0	0	0	0	0	0	0	0	0
Vento Y	Pesi strutturali	0	0	0	0	0	0	0	0	0	0	0	0
	Permanenti portati	0	0	0	0	0	0	0	0	0	0	0	0
	Neve	0	0	0	0	0	0	0	0	0	0	0	0
	Vento X	0	0	0	0	0	0	0	0	0	0	0	0
	Vento Y	0	0	0.4	0.4	0	0	0	0	0	0	0	0

26 Definizioni di carichi superficiali

***Nome**: Nome identificativo della definizione di carico.*
***Valori**: Valori associati alle condizioni di carico.*
***Condizione**: Condizione di carico a cui sono associati i valori.*
***Descrizione**: Nome assegnato alla condizione elementare.*
***Valore**: Modulo del carico superficiale applicato alla superficie. [daN/cm2]*
***Applicazione**: Modalità con cui il carico è applicato alla superficie.*

Nome	Valori		
	Condizione	Valore	Applicazione
	Descrizione		
copertura	Pesi strutturali	0	Verticale
	Permanenti portati	0.002	Verticale
	Neve	0.0043	Verticale in proiezione
	Vento X	-0.007	Normale alla superficie
	Vento Y	-0.007	Verticale

27 Falde

***Descrizione breve**: Nome sintetico assegnato alla falda.*
***Descrizione**: Nome assegnato alla falda.*
***Sp.**: Spessore del piano della falda. [cm]*
***Primo punto**: Primo punto di definizione del piano dell'estradosso della falda.*
***X**: Coordinata X. [cm]*
***Y**: Coordinata Y. [cm]*
***Quota**: Quota. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***Secondo punto**: Secondo punto di definizione del piano dell'estradosso della falda.*
***X**: Coordinata X. [cm]*
***Y**: Coordinata Y. [cm]*
***Quota**: Quota. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***Terzo punto**: Terzo punto di definizione del piano dell'estradosso della falda.*
***X**: Coordinata X. [cm]*
***Y**: Coordinata Y. [cm]*
***Quota**: Quota. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*

Descrizione breve	Descrizione	Sp.	Primo punto			Secondo punto			Terzo punto		
			X	Y	Quota	X	Y	Quota	X	Y	Quota
F1	Falda 1	0	2245	210	345	2245	1210	345	815	1210	525
F2	Falda 2	0	815	210	525	815	1210	525	645	1210	530
F3	Falda 3	0	645	210	530	645	1210	530	475	1210	505
F4	Falda 4	0	475	210	505	475	1210	505	310	1210	465
F5	Falda 5	0	310	210	465	310	1210	465	215	1210	425

28 Tronchi

***Descrizione breve**: Nome sintetico assegnato al tronco.*
***Descrizione**: Nome assegnato al tronco.*
***Quota 1**: Riferimento della prima quota di definizione del tronco. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***Quota 2**: Riferimento della seconda quota di definizione del tronco. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*

Descrizione breve	Descrizione	Quota 1	Quota 2
T1	Fondazione - Falda 1	Fondazione	Falda 1
T2	Fondazione - Falda 2	Fondazione	Falda 2
T3	Fondazione - Falda 3	Fondazione	Falda 3
T4	Fondazione - Falda 4	Fondazione	Falda 4
T5	Fondazione - Falda 5	Fondazione	Falda 5
T6	Fondazione - Piano 1	Fondazione	Piano 1
T7	fondpali - Fondazione	fondpali	Fondazione

29 Fili fissi

29.1 Fili fissi di piano

***Livello**: Quota di inserimento espressa con notazione breve esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***Punto**: Punto di inserimento.*
***X**: Coordinata X. [cm]*
***Y**: Coordinata Y. [cm]*
***Estradosso**: Distanza dalla quota di inserimento misurata in direzione ortogonale al piano della quota e con verso positivo verso l'alto. [cm]*
***Angolo**: Angolo misurato dal semiasse positivo delle ascisse in verso antiorario. [deg]*
***Tipo**: Tipo di simbolo.*
***T.c.**: Testo completo visualizzato accanto al filo fisso, costituito dalla concatenazione del prefisso e del testo.*

Livello	Punto	Estradosso	Angolo	Tipo	T.c.	Livello	Punto	Estradosso	Angolo	Tipo	T.c.

	X	Y						X	Y				
L2	985	710	0	0	Croce	32	L2	2175	210	0	0	Croce	52
L2	2005	210	0	0	Croce	49	L2	1155	710	0	0	Croce	35
L2	1665	710	0	0	Croce	44	L2	1495	710	0	0	Croce	41
L2	1325	710	0	0	Croce	38	L2	1155	210	0	0	Croce	34
L2	985	210	0	0	Croce	31	L2	815	1210	0	0	Croce	30
L2	1325	210	0	0	Croce	37	L2	1835	210	0	0	Croce	46
L2	1665	210	0	0	Croce	43	L2	1495	210	0	0	Croce	40
L2	1835	710	0	0	Croce	47	L2	2005	710	-345	0	Croce	50
L2	2175	710	0	0	Croce	53	L2	2175	1210	0	0	Croce	54
L2	575	1260	0	0	Croce	55	L2	2045	1260	0	0	Croce	58
L2	2045	160	0	0	Croce	57	L2	575	160	0	0	Croce	56
L2	1325	1210	0	0	Croce	39	L2	1155	1210	0	0	Croce	36
L2	985	1210	0	0	Croce	33	L2	1495	1210	0	0	Croce	42
L2	2005	1210	0	0	Croce	51	L2	1835	1210	0	0	Croce	48
L2	1665	1210	0	0	Croce	45	L2	310	210	0	0	Croce	10
L2	215	1210	0	0	Croce	9	L2	215	710	0	0	Croce	8
L2	310	710	0	0	Croce	11	L2	475	710	0	0	Croce	14
L2	475	210	0	0	Croce	13	L2	310	1210	0	0	Croce	12
L2	575	1210	0	0	Croce	3	L2	575	710	0	0	Croce	2
L2	575	210	0	0	Croce	1	L2	2045	210	0	0	Croce	4
L2	215	210	0	0	Croce	7	L2	2045	1210	0	0	Croce	6
L2	2045	710	0	0	Croce	5	L2	475	1210	0	0	Croce	15
L2	2245	210	0	0	Croce	25	L2	2110	1210	0	0	Croce	24
L2	2110	710	0	0	Croce	23	L2	2245	710	0	0	Croce	26
L2	815	710	0	0	Croce	29	L2	815	210	0	0	Croce	28
L2	2245	1210	0	0	Croce	27	L2	645	1210	0	0	Croce	18
L2	645	710	0	0	Croce	17	L2	645	210	0	0	Croce	16
L2	1755	210	0	0	Croce	19	L2	2110	210	0	0	Croce	22
L2	1755	1210	0	0	Croce	21	L2	1755	710	0	0	Croce	20

30 Travi in acciaio di falda

***Sezione**: Sezione in acciaio.*
***P.i.**: Posizione dei punti d'inserimento rispetto alla geometria della sezione. S=Sinistra, C=Centro, D=Destra*
***Fal.**: Quota del punto di inserimento iniziale. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***Punto i.**: Punto di inserimento iniziale.*
***X**: Coordinata X. [cm]*
***Y**: Coordinata Y. [cm]*
***Punto f.**: Punto di inserimento finale.*
***X**: Coordinata X. [cm]*
***Y**: Coordinata Y. [cm]*
***Estr.**: Distanza dalla quota di inserimento misurata in direzione ortogonale al piano della quota e con verso positivo verso l'alto. [cm]*
***Sopraf.**: Posizionamento sopra falda della trave di falda.*
***Mat.**: Riferimento ad una definizione di materiale in acciaio.*
***Car.lin.**: Riferimento alla definizione di un carico lineare.L: valori del carico espressi nel sistema locale dell'elemento.G: valori del carico espressi nel sistema globale.*
***DeltaT**: Riferimento alla definizione di una variazione termica. Accetta anche il valore "Nessuno".*
***Sovr.**: Aliquota di sovraresistenza da assicurare in verifica.*
***S.Z**: Indica se l'elemento deve essere verificato considerando il sisma verticale.*
***C.i.**: Svincolo o cerniera da applicare al relativo estremo dell'asta nel modello.*
***C.f.**: Svincolo o cerniera da applicare al relativo estremo dell'asta nel modello.*
***P.lin.**: Peso per unità di lunghezza. [daN/cm]*
***Cal.**: Descrizione sintetica dell'eventuale calastrello della sezione accoppiata o composita.*

Sezione	P.i.	Fal.	Punto i.		Punto f.		Estr.	Sopraf.	Mat.	Car.lin.	DeltaT	Sovr.	S.Z	C.i.	C.f.	P.lin.	Cal.
			X	Y	X	Y											
HEA160	C	F1	985	710	985	1210	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	985	210	985	710	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	1155	210	1155	710	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	1325	210	1325	710	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	1155	710	1155	1210	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	815	210	815	710	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	2005	710	2005	1210	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	815	710	815	1210	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	2245	710	2245	1210	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	2245	210	2245	710	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	1835	710	1835	1210	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	1835	210	1835	710	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	2175	210	2175	710	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	2005	210	2005	710	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	2175	710	2175	1210	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	1495	210	1495	710	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	1325	710	1325	1210	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	1495	710	1495	1210	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	

Sezione	P.i.	Fal.	Punto i.		Punto f.		Estr.	Sopraf.	Mat.	Car.lin.	DeltaT	Sovr.	S.Z	C.i.	C.f.	P.lin.	Cal.
			X	Y	X	Y											
HEA160	C	F1	1665	710	1665	1210	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F1	1665	210	1665	710	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEB450	C	F1	2110	1210	2045	1210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F1	2245	1210	2110	1210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F1	2045	710	1755	710	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F1	1755	710	815	710	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F1	1755	1210	815	1210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F1	2045	1210	1755	1210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F1	2045	210	1755	210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F1	2110	210	2045	210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F1	2245	210	2110	210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F1	2110	710	2045	710	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F1	2245	710	2110	710	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F1	1755	210	815	210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F2	815	1210	645	1210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F2	815	710	645	710	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F2	815	210	645	210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F3	575	210	475	210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F3	645	210	575	210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEA160	C	F3	645	210	645	710	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEB450	C	F3	645	1210	575	1210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F3	575	1210	475	1210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F3	645	710	575	710	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F3	575	710	475	710	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEA160	C	F3	645	710	645	1210	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEB450	C	F4	475	210	310	210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F4	475	710	310	710	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F4	475	1210	310	1210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEA160	C	F4	475	710	475	1210	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F4	475	210	475	710	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F4	310	710	310	1210	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F4	310	210	310	710	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEA160	C	F5	215	210	215	710	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEB450	C	F5	310	1210	215	1210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEA160	C	F5	215	710	215	1210	29.8	Si	S235	Nessuno; G		0	No	Svincolo: M2, M3	Svincolo: M2, M3	0.3	
HEB450	C	F5	310	210	215	210	0	Si	S235	Nessuno; G		0	No	No	No	1.71	
HEB450	C	F5	310	710	215	710	0	Si	S235	Nessuno; G		0	No	No	No	1.71	

31 Travi in acciaio tra piani

***Sezione**: Sezione in acciaio.*
***P.i.**: Posizione dei punti d'inserimento rispetto alla geometria della sezione. S=Sinistra, C=Centro, D=Destra*
***Quota i.**: Quota del punto di inserimento iniziale. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***Quota f.**: Quota del punto di inserimento finale. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***Punto i.**: Punto di inserimento iniziale.*
* ***X**: Coordinata X. [cm]*
* ***Y**: Coordinata Y. [cm]*
***Punto f.**: Punto di inserimento finale.*
* ***X**: Coordinata X. [cm]*
* ***Y**: Coordinata Y. [cm]*
***Mat.**: Riferimento ad una definizione di materiale in acciaio.*
***Car.lin.**: Riferimento alla definizione di un carico lineare.L: valori del carico espressi nel sistema locale dell'elemento.G: valori del carico espressi nel sistema globale.*
***DeltaT**: Riferimento alla definizione di una variazione termica. Accetta anche il valore "Nessuno".*
***Sovr.**: Aliquota di sovraresistenza da assicurare in verifica.*
***S.Z**: Indica se l'elemento deve essere verificato considerando il sisma verticale.*

***C.i.**: Svincolo o cerniera da applicare al relativo estremo dell'asta nel modello.*
***C.f.**: Svincolo o cerniera da applicare al relativo estremo dell'asta nel modello.*
***P.lin.**: Peso per unità di lunghezza. [daN/cm]*
***Cal.**: Descrizione sintetica dell'eventuale calastrello della sezione accoppiata o composita.*

Sezione	P.i.	Quota i.	Quota f.	Punto i.		Punto f.		Mat.	Car.lin.	DeltaT	Sovr.	S.Z	C.i.	C.f.	P.lin.	Cal.
				X	Y	X	Y									
EN10219 219,1x8	C	L2	F3	575	1210	645	1210	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.42	
EN10219 219,1x8	C	L2	F3	575	710	645	710	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.42	
EN10219 219,1x8	C	L2	F3	575	210	645	210	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.42	
EN10219 219,1x8	C	L2	F5	575	210	310	210	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.42	
EN10219 219,1x8	C	L2	F5	575	710	310	710	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.42	
EN10219 219,1x8	C	L2	F5	575	1210	310	1210	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.42	
EN10219 219,1x8	C	L2	F1	2045	710	2110	710	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.42	
EN10219 219,1x8	C	L2	F1	2045	210	1755	210	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.42	
EN10219 219,1x8	C	L2	F1	2045	210	2110	210	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.42	
EN10219 219,1x8	C	L2	F1	2045	1210	1755	1210	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.42	
EN10219 219,1x8	C	L2	F1	2045	1210	2110	1210	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.42	
EN10219 219,1x8	C	L2	F1	2045	710	1755	710	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.42	

32 Travi tiranti in acciaio di falda

***Sezione**: Sezione in acciaio.*
***P.i.**: Posizione dei punti d'inserimento rispetto alla geometria della sezione. S=Sinistra, C=Centro, D=Destra*
***Fal.**: Quota del punto di inserimento iniziale. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***Punto i.**: Punto di inserimento iniziale.*
* ***X**: Coordinata X. [cm]*
* ***Y**: Coordinata Y. [cm]*
***Punto f.**: Punto di inserimento finale.*
* ***X**: Coordinata X. [cm]*
* ***Y**: Coordinata Y. [cm]*
***Estr.**: Distanza dalla quota di inserimento misurata in direzione ortogonale al piano della quota e con verso positivo verso l'alto. [cm]*
***Sopraf.**: Posizionamento sopra falda della trave di falda.*
***Mat.**: Riferimento ad una definizione di materiale in acciaio.*
***Car.lin.**: Riferimento alla definizione di un carico lineare.L: valori del carico espressi nel sistema locale dell'elemento.G: valori del carico espressi nel sistema globale.*
***DeltaT**: Riferimento alla definizione di una variazione termica. Accetta anche il valore "Nessuno".*
***Sovr.**: Aliquota di sovraresistenza da assicurare in verifica.*
***S.Z**: Indica se l'elemento deve essere verificato considerando il sisma verticale.*
***C.i.**: Svincolo o cerniera da applicare al relativo estremo dell'asta nel modello.*
***C.f.**: Svincolo o cerniera da applicare al relativo estremo dell'asta nel modello.*
***P.lin.**: Peso per unità di lunghezza. [daN/cm]*
***Cal.**: Descrizione sintetica dell'eventuale calastrello della sezione accoppiata o composita.*

Sezione	P.i.	Fal.	Punto i.		Punto f.		Estr.	Sopraf.	Mat.	Car.lin.	DeltaT	Sovr.	S.Z	C.i.	C.f.	P.lin.	Cal.
			X	Y	X	Y											
OS 9.5	C	F1	1835	210	2005	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1665	210	1835	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	2005	1210	1835	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	2005	710	1835	1210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1495	710	1665	210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	985	210	1155	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	815	710	985	210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1325	210	1495	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1155	710	1325	210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	2245	710	2175	1210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	2175	210	2245	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	2175	710	2245	210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	2245	1210	2175	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	2005	710	2175	210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	2005	210	2175	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1835	710	2005	210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	2175	1210	2005	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	

Sezione	P.i.	Fal.	Punto i.		Punto f.		Estr.	Sopraf.	Mat.	Car.lin.	DeltaT	Sovr.	S.Z	C.i.	C.f.	P.lin.	Cal.
			X	Y	X	Y											
OS 9.5	C	F1	2175	710	2005	1210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1835	710	1665	1210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1665	710	1835	1210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1495	710	1325	1210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1665	1210	1495	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1495	210	1665	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1665	710	1495	1210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1835	210	1665	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1325	710	1495	210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1495	1210	1325	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1325	710	1155	210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1155	1210	1325	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	985	710	815	210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1155	210	985	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	985	710	1155	1210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1155	710	985	1210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	1325	1210	1155	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	815	1210	985	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F1	985	1210	815	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F2	645	1210	815	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F2	815	710	645	210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F2	815	210	645	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F2	645	710	815	1210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F3	475	1210	645	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F3	645	710	475	210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F3	645	210	475	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F3	475	710	645	1210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F4	310	1210	475	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F4	475	710	310	210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F4	475	210	310	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F4	310	710	475	1210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F5	215	1210	310	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F5	310	710	215	210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F5	310	210	215	710	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	
OS 9.5	C	F5	215	710	310	1210	0	Si	S235	Nessuno; G		0	No	Svincolo: M3	Svincolo: M3	0.01	

33 Carichi lineari di falda

***Carico**: Riferimento alla definizione di un carico lineare.*
***Falda**: Quota del punto di inserimento iniziale. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***Punto i.**: Punto di inserimento iniziale.*
*   ***X**: Coordinata X. [cm]*
*   ***Y**: Coordinata Y. [cm]*
***Punto f.**: Punto di inserimento finale.*
*   ***X**: Coordinata X. [cm]*
*   ***Y**: Coordinata Y. [cm]*
***Estr.**: Distanza dalla quota di inserimento misurata in direzione ortogonale al piano della quota e con verso positivo verso l'alto. [cm]*

Carico	Falda	Punto i.		Punto f.		Estr.
		X	Y	X	Y	
Vento Y	Falda 1	1495	210	1665	210	0
Vento Y	Falda 1	1665	210	1755	210	0
Vento Y	Falda 1	2175	210	2245	210	0
Vento Y	Falda 1	1325	210	1495	210	0
Vento Y	Falda 1	1755	210	1835	210	0
Vento Y	Falda 1	2045	210	2110	210	0
Vento Y	Falda 1	2110	210	2175	210	0
Vento Y	Falda 1	1835	210	2005	210	0
Vento Y	Falda 1	2005	210	2045	210	0

Carico	Falda	Punto i.		Punto f.		Estr.
		X	Y	X	Y	
Vento Y	Falda 1	1155	210	1325	210	0
Vento Y	Falda 1	815	210	985	210	0
Vento Y	Falda 1	985	210	1155	210	0
Vento Y	Falda 2	645	210	815	210	0
Vento Y	Falda 3	475	210	575	210	0
Vento Y	Falda 3	575	210	645	210	0
Vento Y	Falda 4	310	210	475	210	0
Vento X	Falda 5	215	210	215	710	0
Vento Y	Falda 5	215	210	310	210	0
Vento X	Falda 5	215	710	215	1210	0

34 Carichi superficiali di falda

***Carico**: Riferimento alla definizione di un carico di superficie.*
***Solaio**: Riferimento alla definizione di una sezione di solaio. Accetta anche il valore "Nessuno".*
***Falda**: Quota di inserimento espressa con notazione breve esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***Punti**: Punti di definizione in pianta.*
***Indice**: Indice del punto corrente nell'insieme dei punti di definizione dell'elemento.*
***X**: Coordinata X. [cm]*
***Y**: Coordinata Y. [cm]*
***Estr.**: Distanza dalla quota di inserimento misurata in direzione ortogonale al piano della quota e con verso positivo verso l'alto. [cm]*
***Angolo**: Direzione delle nervature che trasmettono il carico.Angolo misurato dal semiasse positivo delle ascisse in verso antiorario. [deg]*
***Comp.**: Descrizione sintetica del comportamento del carico superficiale o, nel caso di comportamento membranale, riferimento alla decrizione analitica della membrana.*
***Fori**: Riferimenti a tutti gli elementi che forano il carico superficiale.*

Carico	Solaio	Falda	Punti			Estr.	Angolo	Comp.	Fori
			Indice	X	Y				
copertura		F1	1	2245	1210	41	0	Nessuno	
			2	815	1210				
			3	815	210				
			4	2245	210				
copertura		F2	1	815	210	41	0	Nessuno	
			2	815	1210				
			3	645	1210				
			4	645	210				
copertura		F3	1	645	210	41	0	Nessuno	
			2	645	1210				
			3	475	1210				
			4	475	210				
copertura		F4	1	475	1210	41	180	Nessuno	
			2	310	1210				
			3	310	210				
			4	475	210				
copertura		F5	1	215	210	41	0	Nessuno	
			2	310	210				
			3	310	1210				
			4	215	1210				

35 Nodi di definizione del modello

***Indice**: Numero dell'elemento nell'insieme che lo contiene.*
***Posizione**: Coordinate del nodo.*
***X**: Coordinata X. [cm]*
***Y**: Coordinata Y. [cm]*
***Z**: Coordinata Z. [cm]*

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
2	575	210	-830	3	2045	210	-830	4	575	710	-830	5	2045	710	-830
6	575	1210	-830	7	2045	1210	-830	8	575	210	-742.5	9	2045	210	-742.5
10	575	710	-742.5	11	2045	710	-742.5	12	575	1210	-742.5	13	2045	1210	-742.5
14	575	210	-567.5	15	2045	210	-567.5	16	575	710	-567.5	17	2045	710	-567.5
18	575	1210	-567.5	19	2045	1210	-567.5	20	575	210	-392.5	21	2045	210	-392.5
22	575	710	-392.5	23	2045	710	-392.5	24	575	1210	-392.5	25	2045	1210	-392.5
26	575	210	-217.5	27	2045	210	-217.5	28	575	710	-217.5	29	2045	710	-217.5
30	575	1210	-217.5	31	2045	1210	-217.5	32	575	210	-130	33	2045	210	-130
34	575	710	-130	35	2045	710	-130	36	575	1210	-130	37	2045	1210	-130
38	575	210	-30	39	2045	210	-30	40	575	710	-30	41	2045	710	-30
42	575	1210	-30	43	2045	1210	-30	44	575	210	-20	45	2045	210	-20
46	575	710	-20	47	2045	710	-20	48	575	1210	-20	49	2045	1210	-20
50	2245	210	345	51	2245	710	345	52	2245	1210	345	53	2175	210	353.8
54	2175	710	353.8	55	2175	1210	353.8	56	2110	210	362	57	2110	710	362
58	2110	1210	362	59	2045	210	370.2	60	2045	710	370.2	61	2045	1210	370.2
62	2005	210	375.2	63	2005	710	375.2	64	2005	1210	375.2	65	1835	210	396.6
66	1835	710	396.6	67	1835	1210	396.6	68	1755	210	406.7	69	1755	710	406.7
70	1755	1210	406.7	71	1665	210	418	72	1665	710	418	73	1665	1210	418
74	215	210	425	75	215	710	425	76	215	1210	425	77	1495	210	439.4
78	1495	710	439.4	79	1495	1210	439.4	80	1325	210	460.8	81	1325	710	460.8
82	1325	1210	460.8	83	310	210	465	84	310	710	465	85	310	1210	465
86	1155	210	482.2	87	1155	710	482.2	88	1155	1210	482.2	89	985	210	503.6
90	985	710	503.6	91	985	1210	503.6	92	475	210	505	93	475	710	505
94	475	1210	505	95	575	210	519.7	96	575	710	519.7	97	575	1210	519.7
98	815	210	525	99	815	710	525	100	815	1210	525	101	645	210	530
102	645	710	530	103	645	1210	530								

36 Carichi concentrati sismici

***Indice**: Numero dell'elemento nell'insieme che lo contiene.*
***Nodo**: Nodo su cui agisce il carico.*
***Condizione**: Condizione elementare mappata nella quale agisce il carico.*
***Fx**: Componente della forza lungo l'asse X. [daN]*
***Fy**: Componente della forza lungo l'asse Y. [daN]*
***Fz**: Componente della forza lungo l'asse Z. [daN]*
***Mz**: Componente del momento attorno all'asse Z. [daN*cm]*
***Peso**: Peso sismico. [daN]*
***Gamma**: Coefficiente gamma. Il valore è adimensionale.*

Indice	Nodo	Condizione	Fx	Fy	Fz	Mz	Peso	Gamma	Indice	Nodo	Condizione	Fx	Fy	Fz	Mz	Peso	Gamma
7	50	Sisma X SLV	49.7	0	0	0	1.6E2	0.764	8	50	Sisma Y SLV	0	49.7	0	0	1.6E2	0.764
9	50	Sisma X SLD	19.3	0	0	0	1.6E2	0.764	10	50	Sisma Y SLD	0	19.3	0	0	1.6E2	0.764
11	51	Sisma X SLV	80.1	0	0	0	2.5E2	0.764	12	51	Sisma Y SLV	0	80.1	0	0	2.5E2	0.764
13	51	Sisma X SLD	31.2	0	0	0	2.5E2	0.764	14	51	Sisma Y SLD	0	31.2	0	0	2.5E2	0.764
15	52	Sisma X SLV	49.7	0	0	0	1.6E2	0.764	16	52	Sisma Y SLV	0	49.7	0	0	1.6E2	0.764
17	52	Sisma X SLD	19.3	0	0	0	1.6E2	0.764	18	52	Sisma Y SLD	0	19.3	0	0	1.6E2	0.764
19	53	Sisma X SLV	83.9	0	0	0	2.6E2	0.783	20	53	Sisma Y SLV	0	83.9	0	0	2.6E2	0.783
21	53	Sisma X SLD	32.6	0	0	0	2.6E2	0.783	22	53	Sisma Y SLD	0	32.6	0	0	2.6E2	0.783
23	54	Sisma X SLV	129.6	0	0	0	4.0E2	0.783	24	54	Sisma Y SLV	0	129.6	0	0	4.0E2	0.783
25	54	Sisma X SLD	50.4	0	0	0	4.0E2	0.783	26	54	Sisma Y SLD	0	50.4	0	0	4.0E2	0.783
27	55	Sisma X SLV	83.9	0	0	0	2.6E2	0.783	28	55	Sisma Y SLV	0	83.9	0	0	2.6E2	0.783
29	55	Sisma X SLD	32.6	0	0	0	2.6E2	0.783	30	55	Sisma Y SLD	0	32.6	0	0	2.6E2	0.783
31	56	Sisma X SLV	64.6	0	0	0	1.9E2	0.801	32	56	Sisma Y SLV	0	64.6	0	0	1.9E2	0.801
33	56	Sisma X SLD	25.2	0	0	0	1.9E2	0.801	34	56	Sisma Y SLD	0	25.2	0	0	1.9E2	0.801
35	57	Sisma X SLV	64.6	0	0	0	1.9E2	0.801	36	57	Sisma Y SLV	0	64.6	0	0	1.9E2	0.801
37	57	Sisma X SLD	25.2	0	0	0	1.9E2	0.801	38	57	Sisma Y SLD	0	25.2	0	0	1.9E2	0.801
39	58	Sisma X SLV	64.6	0	0	0	1.9E2	0.801	40	58	Sisma Y SLV	0	64.6	0	0	1.9E2	0.801
41	58	Sisma X SLD	25.2	0	0	0	1.9E2	0.801	42	58	Sisma Y SLD	0	25.2	0	0	1.9E2	0.801
43	59	Sisma X SLV	31	0	0	0	90.604	0.819	44	59	Sisma Y SLV	0	31	0	0	90.604	0.819
45	59	Sisma X SLD	12.1	0	0	0	90.604	0.819	46	59	Sisma Y SLD	0	12.1	0	0	90.604	0.819
47	60	Sisma X SLV	31	0	0	0	90.604	0.819	48	60	Sisma Y SLV	0	31	0	0	90.604	0.819
49	60	Sisma X SLD	12.1	0	0	0	90.604	0.819	50	60	Sisma Y SLD	0	12.1	0	0	90.604	0.819
51	61	Sisma X SLV	31	0	0	0	90.604	0.819	52	61	Sisma Y SLV	0	31	0	0	90.604	0.819
53	61	Sisma X SLD	12.1	0	0	0	90.604	0.819	54	61	Sisma Y SLD	0	12.1	0	0	90.604	0.819
55	62	Sisma X SLV	120.2	0	0	0	3.5E2	0.831	56	62	Sisma Y SLV	0	120.2	0	0	3.5E2	0.831
57	62	Sisma X SLD	46.8	0	0	0	3.5E2	0.831	58	62	Sisma Y SLD	0	46.8	0	0	3.5E2	0.831
59	63	Sisma X SLV	177.4	0	0	0	5.1E2	0.831	60	63	Sisma Y SLV	0	177.4	0	0	5.1E2	0.831
61	63	Sisma X SLD	69.1	0	0	0	5.1E2	0.831	62	63	Sisma Y SLD	0	69.1	0	0	5.1E2	0.831
63	64	Sisma X SLV	120.2	0	0	0	3.5E2	0.831	64	64	Sisma Y SLV	0	120.2	0	0	3.5E2	0.831
65	64	Sisma X SLD	46.8	0	0	0	3.5E2	0.831	66	64	Sisma Y SLD	0	46.8	0	0	3.5E2	0.831
67	65	Sisma X SLV	139.7	0	0	0	3.8E2	0.878	68	65	Sisma Y SLV	0	139.7	0	0	3.8E2	0.878
69	65	Sisma X SLD	54.4	0	0	0	3.8E2	0.878	70	65	Sisma Y SLD	0	54.4	0	0	3.8E2	0.878
71	66	Sisma X SLV	200.2	0	0	0	5.5E2	0.878	72	66	Sisma Y SLV	0	200.2	0	0	5.5E2	0.878
73	66	Sisma X SLD	77.9	0	0	0	5.5E2	0.878	74	66	Sisma Y SLD	0	77.9	0	0	5.5E2	0.878
75	67	Sisma X SLV	139.7	0	0	0	3.8E2	0.878	76	67	Sisma Y SLV	0	139.7	0	0	3.8E2	0.878
77	67	Sisma X SLD	54.4	0	0	0	3.8E2	0.878	78	67	Sisma Y SLD	0	54.4	0	0	3.8E2	0.878
79	68	Sisma X SLV	95.7	0	0	0	2.5E2	0.9	80	68	Sisma Y SLV	0	95.7	0	0	2.5E2	0.9
81	68	Sisma X SLD	37.2	0	0	0	2.5E2	0.9	82	68	Sisma Y SLD	0	37.2	0	0	2.5E2	0.9
83	69	Sisma X SLV	95.7	0	0	0	2.5E2	0.9	84	69	Sisma Y SLV	0	95.7	0	0	2.5E2	0.9
85	69	Sisma X SLD	37.2	0	0	0	2.5E2	0.9	86	69	Sisma Y SLD	0	37.2	0	0	2.5E2	0.9
87	70	Sisma X SLV	95.7	0	0	0	2.5E2	0.9	88	70	Sisma Y SLV	0	95.7	0	0	2.5E2	0.9
89	70	Sisma X SLD	37.2	0	0	0	2.5E2	0.9	90	70	Sisma Y SLD	0	37.2	0	0	2.5E2	0.9
91	71	Sisma X SLV	150.6	0	0	0	3.9E2	0.925	92	71	Sisma Y SLV	0	150.6	0	0	3.9E2	0.925
93	71	Sisma X SLD	58.6	0	0	0	3.9E2	0.925	94	71	Sisma Y SLD	0	58.6	0	0	3.9E2	0.925
95	72	Sisma X SLV	214.4	0	0	0	5.5E2	0.925	96	72	Sisma Y SLV	0	214.4	0	0	5.5E2	0.925
97	72	Sisma X SLD	83.4	0	0	0	5.5E2	0.925	98	72	Sisma Y SLD	0	83.4	0	0	5.5E2	0.925
99	73	Sisma X SLV	150.6	0	0	0	3.9E2	0.925	100	73	Sisma Y SLV	0	150.6	0	0	3.9E2	0.925
101	73	Sisma X SLD	58.6	0	0	0	3.9E2	0.925	102	73	Sisma Y SLD	0	58.6	0	0	3.9E2	0.925
103	74	Sisma X SLV	75.4	0	0	0	1.9E2	0.941	104	74	Sisma Y SLV	0	75.4	0	0	1.9E2	0.941
105	74	Sisma X SLD	29.3	0	0	0	1.9E2	0.941	106	74	Sisma Y SLD	0	29.3	0	0	1.9E2	0.941
107	75	Sisma X SLV	116.1	0	0	0	2.9E2	0.941	108	75	Sisma Y SLV	0	116.1	0	0	2.9E2	0.941
109	75	Sisma X SLD	45.2	0	0	0	2.9E2	0.941	110	75	Sisma Y SLD	0	45.2	0	0	2.9E2	0.941
111	76	Sisma X SLV	75.4	0	0	0	1.9E2	0.941	112	76	Sisma Y SLV	0	75.4	0	0	1.9E2	0.941
113	76	Sisma X SLD	29.3	0	0	0	1.9E2	0.941	114	76	Sisma Y SLD	0	29.3	0	0	1.9E2	0.941
115	77	Sisma X SLV	186.4	0	0	0	4.6E2	0.973	116	77	Sisma Y SLV	0	186.4	0	0	4.6E2	0.973
117	77	Sisma X SLD	72.6	0	0	0	4.6E2	0.973	118	77	Sisma Y SLD	0	72.6	0	0	4.6E2	0.973
119	78	Sisma X SLV	253.4	0	0	0	6.2E2	0.973	120	78	Sisma Y SLV	0	253.4	0	0	6.2E2	0.973
121	78	Sisma X SLD	98.6	0	0	0	6.2E2	0.973	122	78	Sisma Y SLD	0	98.6	0	0	6.2E2	0.973
123	79	Sisma X SLV	186.4	0	0	0	4.6E2	0.973	124	79	Sisma Y SLV	0	186.4	0	0	4.6E2	0.973
125	79	Sisma X SLD	72.6	0	0	0	4.6E2	0.973	126	79	Sisma Y SLD	0	72.6	0	0	4.6E2	0.973
127	80	Sisma X SLV	195.4	0	0	0	4.6E2	1.02	128	80	Sisma Y SLV	0	195.4	0	0	4.6E2	1.02
129	80	Sisma X SLD	76.1	0	0	0	4.6E2	1.02	130	80	Sisma Y SLD	0	76.1	0	0	4.6E2	1.02
131	81	Sisma X SLV	265.7	0	0	0	6.2E2	1.02	132	81	Sisma Y SLV	0	265.7	0	0	6.2E2	1.02
133	81	Sisma X SLD	103.4	0	0	0	6.2E2	1.02	134	81	Sisma Y SLD	0	103.4	0	0	6.2E2	1.02
135	82	Sisma X SLV	195.4	0	0	0	4.6E2	1.02	136	82	Sisma Y SLV	0	195.4	0	0	4.6E2	1.02
137	82	Sisma X SLD	76.1	0	0	0	4.6E2	1.02	138	82	Sisma Y SLD	0	76.1	0	0	4.6E2	1.02
139	83	Sisma X SLV	213.5	0	0	0	5.0E2	1.029	140	83	Sisma Y SLV	0	213.5	0	0	5.0E2	1.029
141	83	Sisma X SLD	83.1	0	0	0	5.0E2	1.029	142	83	Sisma Y SLD	0	83.1	0	0	5.0E2	1.029
143	84	Sisma X SLV	276.9	0	0	0	6.4E2	1.029	144	84	Sisma Y SLV	0	276.9	0	0	6.4E2	1.029
145	84	Sisma X SLD	107.8	0	0	0	6.4E2	1.029	146	84	Sisma Y SLD	0	107.8	0	0	6.4E2	1.029
147	85	Sisma X SLV	213.5	0	0	0	5.0E2	1.029	148	85	Sisma Y SLV	0	213.5	0	0	5.0E2	1.029
149	85	Sisma X SLD	83.1	0	0	0	5.0E2	1.029	150	85	Sisma Y SLD	0	83.1	0	0	5.0E2	1.029
151	86	Sisma X SLV	204.5	0	0	0	4.6E2	1.067	152	86	Sisma Y SLV	0	204.5	0	0	4.6E2	1.067
153	86	Sisma X SLD	79.6	0	0	0	4.6E2	1.067	154	86	Sisma Y SLD	0	79.6	0	0	4.6E2	1.067
155	87	Sisma X SLV	278.1	0	0	0	6.2E2	1.067	156	87	Sisma Y SLV	0	278.1	0	0	6.2E2	1.067
157	87	Sisma X SLD	108.3	0	0	0	6.2E2	1.067	158	87	Sisma Y SLD	0	108.3	0	0	6.2E2	1.067
159	88	Sisma X SLV	204.5	0	0	0	4.6E2	1.067	160	88	Sisma Y SLV	0	204.5	0	0	4.6E2	1.067
161	88	Sisma X SLD	79.6	0	0	0	4.6E2	1.067	162	88	Sisma Y SLD	0	79.6	0	0	4.6E2	1.067
163	89	Sisma X SLV	213.6	0	0	0	4.6E2	1.115	164	89	Sisma Y SLV	0	213.6	0	0	4.6E2	1.115
165	89	Sisma X SLD	83.1	0	0	0	4.6E2	1.115	166	89	Sisma Y SLD	0	83.1	0	0	4.6E2	1.115

Indice	Nodo	Condizione	Fx	Fy	Fz	Mz	Peso	Gamma	Indice	Nodo	Condizione	Fx	Fy	Fz	Mz	Peso	Gamma
167	90	Sisma X SLV	290.4	0	0	0	6.2E2	1.115	168	90	Sisma Y SLV	0	290.4	0	0	6.2E2	1.115
169	90	Sisma X SLD	113.1	0	0	0	6.2E2	1.115	170	90	Sisma Y SLD	0	113.1	0	0	6.2E2	1.115
171	91	Sisma X SLV	213.6	0	0	0	4.6E2	1.115	172	91	Sisma Y SLV	0	213.6	0	0	4.6E2	1.115
173	91	Sisma X SLD	83.1	0	0	0	4.6E2	1.115	174	91	Sisma Y SLD	0	83.1	0	0	4.6E2	1.115
175	92	Sisma X SLV	185.3	0	0	0	4.0E2	1.118	176	92	Sisma Y SLV	0	185.3	0	0	4.0E2	1.118
177	92	Sisma X SLD	72.1	0	0	0	4.0E2	1.118	178	92	Sisma Y SLD	0	72.1	0	0	4.0E2	1.118
179	93	Sisma X SLV	262.2	0	0	0	5.6E2	1.118	180	93	Sisma Y SLV	0	262.2	0	0	5.6E2	1.118
181	93	Sisma X SLD	102.1	0	0	0	5.6E2	1.118	182	93	Sisma Y SLD	0	102.1	0	0	5.6E2	1.118
183	94	Sisma X SLV	185.3	0	0	0	4.0E2	1.118	184	94	Sisma Y SLV	0	185.3	0	0	4.0E2	1.118
185	94	Sisma X SLD	72.1	0	0	0	4.0E2	1.118	186	94	Sisma Y SLD	0	72.1	0	0	4.0E2	1.118
187	95	Sisma X SLV	70.8	0	0	0	1.5E2	1.15	188	95	Sisma Y SLV	0	70.8	0	0	1.5E2	1.15
189	95	Sisma X SLD	27.6	0	0	0	1.5E2	1.15	190	95	Sisma Y SLD	0	27.6	0	0	1.5E2	1.15
191	96	Sisma X SLV	70.8	0	0	0	1.5E2	1.15	192	96	Sisma Y SLV	0	70.8	0	0	1.5E2	1.15
193	96	Sisma X SLD	27.6	0	0	0	1.5E2	1.15	194	96	Sisma Y SLD	0	27.6	0	0	1.5E2	1.15
195	97	Sisma X SLV	70.8	0	0	0	1.5E2	1.15	196	97	Sisma Y SLV	0	70.8	0	0	1.5E2	1.15
197	97	Sisma X SLD	27.6	0	0	0	1.5E2	1.15	198	97	Sisma Y SLD	0	27.6	0	0	1.5E2	1.15
199	98	Sisma X SLV	222	0	0	0	456.77	1.162	200	98	Sisma Y SLV	0	222	0	0	456.77	1.162
201	98	Sisma X SLD	86.4	0	0	0	456.77	1.162	202	98	Sisma Y SLD	0	86.4	0	0	456.77	1.162
203	99	Sisma X SLV	301.9	0	0	0	6.2E2	1.162	204	99	Sisma Y SLV	0	301.9	0	0	6.2E2	1.162
205	99	Sisma X SLD	117.5	0	0	0	6.2E2	1.162	206	99	Sisma Y SLD	0	117.5	0	0	6.2E2	1.162
207	100	Sisma X SLV	222	0	0	0	456.77	1.162	208	100	Sisma Y SLV	0	222	0	0	456.77	1.162
209	100	Sisma X SLD	86.4	0	0	0	456.77	1.162	210	100	Sisma Y SLD	0	86.4	0	0	456.77	1.162
211	101	Sisma X SLV	238.6	0	0	0	4.9E2	1.173	212	101	Sisma Y SLV	0	238.6	0	0	4.9E2	1.173
213	101	Sisma X SLD	92.9	0	0	0	4.9E2	1.173	214	101	Sisma Y SLD	0	92.9	0	0	4.9E2	1.173
215	102	Sisma X SLV	319.3	0	0	0	6.5E2	1.173	216	102	Sisma Y SLV	0	319.3	0	0	6.5E2	1.173
217	102	Sisma X SLD	124.3	0	0	0	6.5E2	1.173	218	102	Sisma Y SLD	0	124.3	0	0	6.5E2	1.173
219	103	Sisma X SLV	238.6	0	0	0	4.9E2	1.173	220	103	Sisma Y SLV	0	238.6	0	0	4.9E2	1.173
221	103	Sisma X SLD	92.9	0	0	0	4.9E2	1.173	222	103	Sisma Y SLD	0	92.9	0	0	4.9E2	1.173

37 Carichi concentrati

***Indice**: Numero dell'elemento nell'insieme che lo contiene.*
***Nodo**: Nodo su cui agisce il carico.*
***Condizione**: Condizione elementare mappata nella quale agisce il carico.*
***Fx**: Componente della forza lungo l'asse X. [daN]*
***Fy**: Componente della forza lungo l'asse Y. [daN]*
***Fz**: Componente della forza lungo l'asse Z. [daN]*
***Mx**: Componente del momento attorno all'asse X. [daN*cm]*
***My**: Componente del momento attorno all'asse Y. [daN*cm]*
***Mz**: Componente del momento attorno all'asse Z. [daN*cm]*

Indice	Nodo	Condizione	Fx	Fy	Fz	Mx	My	Mz	Indice	Nodo	Condizione	Fx	Fy	Fz	Mx	My	Mz
1	38	Pesi strutturali	0	0	-3600	0	0	0	2	40	Pesi strutturali	0	0	-3600	0	0	0
3	42	Pesi strutturali	0	0	-3600	0	0	0	4	43	Pesi strutturali	0	0	-3600	0	0	0
5	41	Pesi strutturali	0	0	-3600	0	0	0	6	39	Pesi strutturali	0	0	-3600	0	0	0
7	50	Sisma X SLV	49.7	0	0	0	0	0	8	50	Sisma Y SLV	0	49.7	0	0	0	0
9	50	Sisma X SLD	19.3	0	0	0	0	0	10	50	Sisma Y SLD	0	19.3	0	0	0	0
11	51	Sisma X SLV	80.1	0	0	0	0	0	12	51	Sisma Y SLV	0	80.1	0	0	0	0
13	51	Sisma X SLD	31.2	0	0	0	0	0	14	51	Sisma Y SLD	0	31.2	0	0	0	0
15	52	Sisma X SLV	49.7	0	0	0	0	0	16	52	Sisma Y SLV	0	49.7	0	0	0	0
17	52	Sisma X SLD	19.3	0	0	0	0	0	18	52	Sisma Y SLD	0	19.3	0	0	0	0
19	53	Sisma X SLV	83.9	0	0	0	0	0	20	53	Sisma Y SLV	0	83.9	0	0	0	0
21	53	Sisma X SLD	32.6	0	0	0	0	0	22	53	Sisma Y SLD	0	32.6	0	0	0	0
23	54	Sisma X SLV	129.6	0	0	0	0	0	24	54	Sisma Y SLV	0	129.6	0	0	0	0
25	54	Sisma X SLD	50.4	0	0	0	0	0	26	54	Sisma Y SLD	0	50.4	0	0	0	0
27	55	Sisma X SLV	83.9	0	0	0	0	0	28	55	Sisma Y SLV	0	83.9	0	0	0	0
29	55	Sisma X SLD	32.6	0	0	0	0	0	30	55	Sisma Y SLD	0	32.6	0	0	0	0
31	56	Sisma X SLV	64.6	0	0	0	0	0	32	56	Sisma Y SLV	0	64.6	0	0	0	0
33	56	Sisma X SLD	25.2	0	0	0	0	0	34	56	Sisma Y SLD	0	25.2	0	0	0	0
35	57	Sisma X SLV	64.6	0	0	0	0	0	36	57	Sisma Y SLV	0	64.6	0	0	0	0
37	57	Sisma X SLD	25.2	0	0	0	0	0	38	57	Sisma Y SLD	0	25.2	0	0	0	0
39	58	Sisma X SLV	64.6	0	0	0	0	0	40	58	Sisma Y SLV	0	64.6	0	0	0	0
41	58	Sisma X SLD	25.2	0	0	0	0	0	42	58	Sisma Y SLD	0	25.2	0	0	0	0
43	59	Sisma X SLV	31	0	0	0	0	0	44	59	Sisma Y SLV	0	31	0	0	0	0
45	59	Sisma X SLD	12.1	0	0	0	0	0	46	59	Sisma Y SLD	0	12.1	0	0	0	0
47	60	Sisma X SLV	31	0	0	0	0	0	48	60	Sisma Y SLV	0	31	0	0	0	0
49	60	Sisma X SLD	12.1	0	0	0	0	0	50	60	Sisma Y SLD	0	12.1	0	0	0	0
51	61	Sisma X SLV	31	0	0	0	0	0	52	61	Sisma Y SLV	0	31	0	0	0	0
53	61	Sisma X SLD	12.1	0	0	0	0	0	54	61	Sisma Y SLD	0	12.1	0	0	0	0
55	62	Sisma X SLV	120.2	0	0	0	0	0	56	62	Sisma Y SLV	0	120.2	0	0	0	0
57	62	Sisma X SLD	46.8	0	0	0	0	0	58	62	Sisma Y SLD	0	46.8	0	0	0	0
59	63	Sisma X SLV	177.4	0	0	0	0	0	60	63	Sisma Y SLV	0	177.4	0	0	0	0
61	63	Sisma X SLD	69.1	0	0	0	0	0	62	63	Sisma Y SLD	0	69.1	0	0	0	0
63	64	Sisma X SLV	120.2	0	0	0	0	0	64	64	Sisma Y SLV	0	120.2	0	0	0	0
65	64	Sisma X SLD	46.8	0	0	0	0	0	66	64	Sisma Y SLD	0	46.8	0	0	0	0
67	65	Sisma X SLV	139.7	0	0	0	0	0	68	65	Sisma Y SLV	0	139.7	0	0	0	0
69	65	Sisma X SLD	54.4	0	0	0	0	0	70	65	Sisma Y SLD	0	54.4	0	0	0	0
71	66	Sisma X SLV	200.2	0	0	0	0	0	72	66	Sisma Y SLV	0	200.2	0	0	0	0
73	66	Sisma X SLD	77.9	0	0	0	0	0	74	66	Sisma Y SLD	0	77.9	0	0	0	0
75	67	Sisma X SLV	139.7	0	0	0	0	0	76	67	Sisma Y SLV	0	139.7	0	0	0	0
77	67	Sisma X SLD	54.4	0	0	0	0	0	78	67	Sisma Y SLD	0	54.4	0	0	0	0
79	68	Sisma X SLV	95.7	0	0	0	0	0	80	68	Sisma Y SLV	0	95.7	0	0	0	0
81	68	Sisma X SLD	37.2	0	0	0	0	0	82	68	Sisma Y SLD	0	37.2	0	0	0	0
83	69	Sisma X SLV	95.7	0	0	0	0	0	84	69	Sisma Y SLV	0	95.7	0	0	0	0
85	69	Sisma X SLD	37.2	0	0	0	0	0	86	69	Sisma Y SLD	0	37.2	0	0	0	0
87	70	Sisma X SLV	95.7	0	0	0	0	0	88	70	Sisma Y SLV	0	95.7	0	0	0	0
89	70	Sisma X SLD	37.2	0	0	0	0	0	90	70	Sisma Y SLD	0	37.2	0	0	0	0
91	71	Sisma X SLV	150.6	0	0	0	0	0	92	71	Sisma Y SLV	0	150.6	0	0	0	0
93	71	Sisma X SLD	58.6	0	0	0	0	0	94	71	Sisma Y SLD	0	58.6	0	0	0	0
95	72	Sisma X SLV	214.4	0	0	0	0	0	96	72	Sisma Y SLV	0	214.4	0	0	0	0
97	72	Sisma X SLD	83.4	0	0	0	0	0	98	72	Sisma Y SLD	0	83.4	0	0	0	0
99	73	Sisma X SLV	150.6	0	0	0	0	0	100	73	Sisma Y SLV	0	150.6	0	0	0	0

Indice	Nodo	Condizione	Fx	Fy	Fz	Mx	My	Mz	Indice	Nodo	Condizione	Fx	Fy	Fz	Mx	My	Mz
101	73	Sisma X SLD	58.6	0	0	0	0	0	102	73	Sisma Y SLD	0	58.6	0	0	0	0
103	74	Sisma X SLV	75.4	0	0	0	0	0	104	74	Sisma Y SLV	0	75.4	0	0	0	0
105	74	Sisma X SLD	29.3	0	0	0	0	0	106	74	Sisma Y SLD	0	29.3	0	0	0	0
107	75	Sisma X SLV	116.1	0	0	0	0	0	108	75	Sisma Y SLV	0	116.1	0	0	0	0
109	75	Sisma X SLD	45.2	0	0	0	0	0	110	75	Sisma Y SLD	0	45.2	0	0	0	0
111	76	Sisma X SLV	75.4	0	0	0	0	0	112	76	Sisma Y SLV	0	75.4	0	0	0	0
113	76	Sisma X SLD	29.3	0	0	0	0	0	114	76	Sisma Y SLD	0	29.3	0	0	0	0
115	77	Sisma X SLV	186.4	0	0	0	0	0	116	77	Sisma Y SLV	0	186.4	0	0	0	0
117	77	Sisma X SLD	72.6	0	0	0	0	0	118	77	Sisma Y SLD	0	72.6	0	0	0	0
119	78	Sisma X SLV	253.4	0	0	0	0	0	120	78	Sisma Y SLV	0	253.4	0	0	0	0
121	78	Sisma X SLD	98.6	0	0	0	0	0	122	78	Sisma Y SLD	0	98.6	0	0	0	0
123	79	Sisma X SLV	186.4	0	0	0	0	0	124	79	Sisma Y SLV	0	186.4	0	0	0	0
125	79	Sisma X SLD	72.6	0	0	0	0	0	126	79	Sisma Y SLD	0	72.6	0	0	0	0
127	80	Sisma X SLV	195.4	0	0	0	0	0	128	80	Sisma Y SLV	0	195.4	0	0	0	0
129	80	Sisma X SLD	76.1	0	0	0	0	0	130	80	Sisma Y SLD	0	76.1	0	0	0	0
131	81	Sisma X SLV	265.7	0	0	0	0	0	132	81	Sisma Y SLV	0	265.7	0	0	0	0
133	81	Sisma X SLD	103.4	0	0	0	0	0	134	81	Sisma Y SLD	0	103.4	0	0	0	0
135	82	Sisma X SLV	195.4	0	0	0	0	0	136	82	Sisma Y SLV	0	195.4	0	0	0	0
137	82	Sisma X SLD	76.1	0	0	0	0	0	138	82	Sisma Y SLD	0	76.1	0	0	0	0
139	83	Sisma X SLV	213.5	0	0	0	0	0	140	83	Sisma Y SLV	0	213.5	0	0	0	0
141	83	Sisma X SLD	83.1	0	0	0	0	0	142	83	Sisma Y SLD	0	83.1	0	0	0	0
143	84	Sisma X SLV	276.9	0	0	0	0	0	144	84	Sisma Y SLV	0	276.9	0	0	0	0
145	84	Sisma X SLD	107.8	0	0	0	0	0	146	84	Sisma Y SLD	0	107.8	0	0	0	0
147	85	Sisma X SLV	213.5	0	0	0	0	0	148	85	Sisma Y SLV	0	213.5	0	0	0	0
149	85	Sisma X SLD	83.1	0	0	0	0	0	150	85	Sisma Y SLD	0	83.1	0	0	0	0
151	86	Sisma X SLV	204.5	0	0	0	0	0	152	86	Sisma Y SLV	0	204.5	0	0	0	0
153	86	Sisma X SLD	79.6	0	0	0	0	0	154	86	Sisma Y SLD	0	79.6	0	0	0	0
155	87	Sisma X SLV	278.1	0	0	0	0	0	156	87	Sisma Y SLV	0	278.1	0	0	0	0
157	87	Sisma X SLD	108.3	0	0	0	0	0	158	87	Sisma Y SLD	0	108.3	0	0	0	0
159	88	Sisma X SLV	204.5	0	0	0	0	0	160	88	Sisma Y SLV	0	204.5	0	0	0	0
161	88	Sisma X SLD	79.6	0	0	0	0	0	162	88	Sisma Y SLD	0	79.6	0	0	0	0
163	89	Sisma X SLV	213.6	0	0	0	0	0	164	89	Sisma Y SLV	0	213.6	0	0	0	0
165	89	Sisma X SLD	83.1	0	0	0	0	0	166	89	Sisma Y SLD	0	83.1	0	0	0	0
167	90	Sisma X SLV	290.4	0	0	0	0	0	168	90	Sisma Y SLV	0	290.4	0	0	0	0
169	90	Sisma X SLD	113.1	0	0	0	0	0	170	90	Sisma Y SLD	0	113.1	0	0	0	0
171	91	Sisma X SLV	213.6	0	0	0	0	0	172	91	Sisma Y SLV	0	213.6	0	0	0	0
173	91	Sisma X SLD	83.1	0	0	0	0	0	174	91	Sisma Y SLD	0	83.1	0	0	0	0
175	92	Sisma X SLV	185.3	0	0	0	0	0	176	92	Sisma Y SLV	0	185.3	0	0	0	0
177	92	Sisma X SLD	72.1	0	0	0	0	0	178	92	Sisma Y SLD	0	72.1	0	0	0	0
179	93	Sisma X SLV	262.2	0	0	0	0	0	180	93	Sisma Y SLV	0	262.2	0	0	0	0
181	93	Sisma X SLD	102.1	0	0	0	0	0	182	93	Sisma Y SLD	0	102.1	0	0	0	0
183	94	Sisma X SLV	185.3	0	0	0	0	0	184	94	Sisma Y SLV	0	185.3	0	0	0	0
185	94	Sisma X SLD	72.1	0	0	0	0	0	186	94	Sisma Y SLD	0	72.1	0	0	0	0
187	95	Sisma X SLV	70.8	0	0	0	0	0	188	95	Sisma Y SLV	0	70.8	0	0	0	0
189	95	Sisma X SLD	27.6	0	0	0	0	0	190	95	Sisma Y SLD	0	27.6	0	0	0	0
191	96	Sisma X SLV	70.8	0	0	0	0	0	192	96	Sisma Y SLV	0	70.8	0	0	0	0
193	96	Sisma X SLD	27.6	0	0	0	0	0	194	96	Sisma Y SLD	0	27.6	0	0	0	0
195	97	Sisma X SLV	70.8	0	0	0	0	0	196	97	Sisma Y SLV	0	70.8	0	0	0	0
197	97	Sisma X SLD	27.6	0	0	0	0	0	198	97	Sisma Y SLD	0	27.6	0	0	0	0
199	98	Sisma X SLV	222	0	0	0	0	0	200	98	Sisma Y SLV	0	222	0	0	0	0
201	98	Sisma X SLD	86.4	0	0	0	0	0	202	98	Sisma Y SLD	0	86.4	0	0	0	0
203	99	Sisma X SLV	301.9	0	0	0	0	0	204	99	Sisma Y SLV	0	301.9	0	0	0	0
205	99	Sisma X SLD	117.5	0	0	0	0	0	206	99	Sisma Y SLD	0	117.5	0	0	0	0
207	100	Sisma X SLV	222	0	0	0	0	0	208	100	Sisma Y SLV	0	222	0	0	0	0
209	100	Sisma X SLD	86.4	0	0	0	0	0	210	100	Sisma Y SLD	0	86.4	0	0	0	0
211	101	Sisma X SLV	238.6	0	0	0	0	0	212	101	Sisma Y SLV	0	238.6	0	0	0	0
213	101	Sisma X SLD	92.9	0	0	0	0	0	214	101	Sisma Y SLD	0	92.9	0	0	0	0
215	102	Sisma X SLV	319.3	0	0	0	0	0	216	102	Sisma Y SLV	0	319.3	0	0	0	0
217	102	Sisma X SLD	124.3	0	0	0	0	0	218	102	Sisma Y SLD	0	124.3	0	0	0	0
219	103	Sisma X SLV	238.6	0	0	0	0	0	220	103	Sisma Y SLV	0	238.6	0	0	0	0
221	103	Sisma X SLD	92.9	0	0	0	0	0	222	103	Sisma Y SLD	0	92.9	0	0	0	0

38 Aste

38.1 Carichi su aste modello

38.1.1 Carichi trapezoidali locali su aste modello

***Indice asta**: Indice dell'asta a cui si riferisce il carico trapezoidale.*
***Condizione**: Condizione elementare di carico a cui si riferisce il carico.*
***Posizione iniziale**: Posizione iniziale del carico sull'asse locale 1. [cm]*
***F1 iniziale**: Componente del valore iniziale del carico lungo l'asse locale 1. [daN/cm]*
***F2 iniziale**: Componente del valore iniziale del carico lungo l'asse locale 2. [daN/cm]*
***F3 iniziale**: Componente del valore iniziale del carico lungo l'asse locale 3. [daN/cm]*
***Posizione finale**: Posizione finale del carico sull'asse locale 1. [cm]*
***F1 finale**: Componente del valore finale del carico lungo l'asse locale 1. [daN/cm]*
***F2 finale**: Componente del valore finale del carico lungo l'asse locale 2. [daN/cm]*
***F3 finale**: Componente del valore finale del carico lungo l'asse locale 3. [daN/cm]*

Indice asta	Condizione	Posizione iniziale	F1 iniziale	F2 iniziale	F3 iniziale	Posizione finale	F1 finale	F2 finale	F3 finale
1	Vento Y	0	0	0	-0.36	387.5	0	0	-0.36
2	Vento Y	0	0	0	0.36	515.9	0	0	0.36
10	Vento X	0	-0.173	0.316	0	552.7	-0.173	0.316	0
11	Vento X	0	-0.173	0.316	0	552.7	-0.173	0.316	0
12	Vento X	0	-0.173	0.316	0	552.7	-0.173	0.316	0
13	Vento Y	0	0	0	0.36	70.6	0	0	0.36
14	Vento Y	0	0	0	0.36	65.5	0	0	0.36
15	Vento Y	0	0	0	0.36	65.5	0	0	0.36
16	Vento Y	0	0	0	0.36	40.3	0	0	0.36
17	Vento Y	0	0	0	0.36	171.3	0	0	0.36
18	Vento Y	0	0	0	0.36	80.6	0	0	0.36
19	Vento Y	0	0	0	0.36	90.7	0	0	0.36
20	Vento Y	0	0	0	0.36	171.3	0	0	0.36
21	Vento Y	0	0	0	0.36	171.3	0	0	0.36

Indice asta	Condizione	Posizione iniziale	F1 iniziale	F2 iniziale	F3 iniziale	Posizione finale	F1 finale	F2 finale	F3 finale
22	Vento Y	0	0	0	0.36	171.3	0	0	0.36
23	Vento Y	0	0	0	0.36	171.3	0	0	0.36
24	Vento Y	0	0	0	0.36	171.3	0	0	0.36
49	Vento Y	0	0	0	0.36	170.1	0	0	0.36
52	Vento Y	0	0	0	0.36	70.8	0	0	0.36
53	Vento Y	0	0	0	0.36	101.1	0	0	0.36
60	Vento Y	0	0	0	0.36	169.8	0	0	0.36
61	Vento Y	0	0	0	0.36	103.1	0	0	0.36
64	Vento X	0	0	-0.14	0.332	500	0	-0.14	0.332
64	Permanenti portati	0	0	-0.095	-0.04	500	0	-0.095	-0.04
64	Neve	0	0	-0.188	-0.079	500	0	-0.188	-0.079
64	Vento X	0	0	0.361	0	500	0	0.361	0
64	Vento Y	0	0	0.332	0.14	500	0	0.332	0.14
65	Vento X	0	0	-0.14	0.332	500	0	-0.14	0.332
65	Permanenti portati	0	0	-0.095	-0.04	500	0	-0.095	-0.04
65	Neve	0	0	-0.188	-0.079	500	0	-0.188	-0.079
65	Vento X	0	0	0.361	0	500	0	0.361	0
65	Vento Y	0	0	0.332	0.14	500	0	0.332	0.14
66	Permanenti portati	0	0	-0.165	-0.04	500	0	-0.165	-0.04
66	Neve	0	0	-0.345	-0.084	500	0	-0.345	-0.084
66	Vento X	0	0	0.594	0	500	0	0.594	0
66	Vento Y	0	0	0.577	0.14	500	0	0.577	0.14
66	Permanenti portati	0	0	-0.1	-0.024	500	0	-0.1	-0.024
66	Neve	0	0	-0.199	-0.048	500	0	-0.199	-0.048
66	Vento X	0	0	0.356	-0.058	500	0	0.356	-0.058
66	Vento Y	0	0	0.351	0.085	500	0	0.351	0.085
67	Permanenti portati	0	0	-0.165	-0.04	500	0	-0.165	-0.04
67	Neve	0	0	-0.345	-0.084	500	0	-0.345	-0.084
67	Vento X	0	0	0.594	0	500	0	0.594	0
67	Vento Y	0	0	0.577	0.14	500	0	0.577	0.14
67	Permanenti portati	0	0	-0.1	-0.024	500	0	-0.1	-0.024
67	Neve	0	0	-0.199	-0.048	500	0	-0.199	-0.048
67	Vento X	0	0	0.356	-0.058	500	0	0.356	-0.058
67	Vento Y	0	0	0.351	0.085	500	0	0.351	0.085
68	Permanenti portati	0	0	-0.167	-0.04	500	0	-0.167	-0.04
68	Neve	0	0	-0.355	-0.086	500	0	-0.355	-0.086
68	Vento X	0	0	0.599	0.055	500	0	0.599	0.055
68	Vento Y	0	0	0.584	0.142	500	0	0.584	0.142
68	Permanenti portati	0	0	-0.165	-0.04	500	0	-0.165	-0.04
68	Neve	0	0	-0.345	-0.084	500	0	-0.345	-0.084
68	Vento X	0	0	0.594	0	500	0	0.594	0
68	Vento Y	0	0	0.577	0.14	500	0	0.577	0.14
69	Permanenti portati	0	0	-0.167	-0.04	500	0	-0.167	-0.04
69	Neve	0	0	-0.355	-0.086	500	0	-0.355	-0.086
69	Vento X	0	0	0.599	0.055	500	0	0.599	0.055
69	Vento Y	0	0	0.584	0.142	500	0	0.584	0.142
69	Permanenti portati	0	0	-0.165	-0.04	500	0	-0.165	-0.04
69	Neve	0	0	-0.345	-0.084	500	0	-0.345	-0.084
69	Vento X	0	0	0.594	0	500	0	0.594	0
69	Vento Y	0	0	0.577	0.14	500	0	0.577	0.14
70	Permanenti portati	0	0	-0.168	-0.025	500	0	-0.168	-0.025
70	Neve	0	0	-0.362	-0.053	500	0	-0.362	-0.053
70	Vento X	0	0	0.586	0.104	500	0	0.586	0.104
70	Vento Y	0	0	0.589	0.087	500	0	0.589	0.087
70	Permanenti portati	0	0	-0.17	-0.025	500	0	-0.17	-0.025
70	Neve	0	0	-0.362	-0.053	500	0	-0.362	-0.053
70	Vento X	0	0	0.601	0	500	0	0.601	0
70	Vento Y	0	0	0.595	0.088	500	0	0.595	0.088
71	Permanenti portati	0	0	-0.168	-0.025	500	0	-0.168	-0.025
71	Neve	0	0	-0.362	-0.053	500	0	-0.362	-0.053
71	Vento X	0	0	0.586	0.104	500	0	0.586	0.104
71	Vento Y	0	0	0.589	0.087	500	0	0.589	0.087
71	Permanenti portati	0	0	-0.17	-0.025	500	0	-0.17	-0.025
71	Neve	0	0	-0.362	-0.053	500	0	-0.362	-0.053
71	Vento X	0	0	0.601	0	500	0	0.601	0
71	Vento Y	0	0	0.595	0.088	500	0	0.595	0.088
72	Permanenti portati	0	0	-0.17	0.021	500	0	-0.17	0.021
72	Neve	0	0	-0.363	0.046	500	0	-0.363	0.046
72	Vento X	0	0	0.6	0	500	0	0.6	0
72	Vento Y	0	0	0.595	-0.075	500	0	0.595	-0.075
72	Permanenti portati	0	0	-0.169	0.021	500	0	-0.169	0.021
72	Neve	0	0	-0.363	0.046	500	0	-0.363	0.046
72	Vento X	0	0	0.593	-0.057	500	0	0.593	-0.057
72	Vento Y	0	0	0.591	-0.074	500	0	0.591	-0.074
73	Permanenti portati	0	0	-0.17	0.021	500	0	-0.17	0.021
73	Neve	0	0	-0.363	0.046	500	0	-0.363	0.046
73	Vento X	0	0	0.6	0	500	0	0.6	0
73	Vento Y	0	0	0.595	-0.075	500	0	0.595	-0.075
73	Permanenti portati	0	0	-0.169	0.021	500	0	-0.169	0.021
73	Neve	0	0	-0.363	0.046	500	0	-0.363	0.046
73	Vento X	0	0	0.593	-0.057	500	0	0.593	-0.057
73	Vento Y	0	0	0.591	-0.074	500	0	0.591	-0.074
74	Permanenti portati	0	0	-0.07	0.009	500	0	-0.07	0.009
74	Neve	0	0	-0.149	0.019	500	0	-0.149	0.019
74	Vento X	0	0	0.247	0	500	0	0.247	0
74	Vento Y	0	0	0.245	-0.031	500	0	0.245	-0.031

Indice asta	Condizione	Posizione iniziale	F1 iniziale	F2 iniziale	F3 iniziale	Posizione finale	F1 finale	F2 finale	F3 finale
75	Permanenti portati	0	0	-0.07	0.009	500	0	-0.07	0.009
75	Neve	0	0	-0.149	0.019	500	0	-0.149	0.019
75	Vento X	0	0	0.247	0	500	0	0.247	0
75	Vento Y	0	0	0.245	-0.031	500	0	0.245	-0.031
76	Permanenti portati	0	0	-0.34	0.043	500	0	-0.34	0.043
76	Neve	0	0	-0.725	0.091	500	0	-0.725	0.091
76	Vento X	0	0	1.199	0	500	0	1.199	0
76	Vento Y	0	0	1.19	-0.15	500	0	1.19	-0.15
77	Permanenti portati	0	0	-0.34	0.043	500	0	-0.34	0.043
77	Neve	0	0	-0.725	0.091	500	0	-0.725	0.091
77	Vento X	0	0	1.199	0	500	0	1.199	0
77	Vento Y	0	0	1.19	-0.15	500	0	1.19	-0.15
78	Permanenti portati	0	0	-0.34	0.043	500	0	-0.34	0.043
78	Neve	0	0	-0.725	0.091	500	0	-0.725	0.091
78	Vento X	0	0	1.199	0	500	0	1.199	0
78	Vento Y	0	0	1.19	-0.15	500	0	1.19	-0.15
79	Permanenti portati	0	0	-0.34	0.043	500	0	-0.34	0.043
79	Neve	0	0	-0.725	0.091	500	0	-0.725	0.091
79	Vento X	0	0	1.199	0	500	0	1.199	0
79	Vento Y	0	0	1.19	-0.15	500	0	1.19	-0.15
80	Permanenti portati	0	0	-0.34	0.043	500	0	-0.34	0.043
80	Neve	0	0	-0.725	0.091	500	0	-0.725	0.091
80	Vento X	0	0	1.199	0	500	0	1.199	0
80	Vento Y	0	0	1.19	-0.15	500	0	1.19	-0.15
81	Permanenti portati	0	0	-0.34	0.043	500	0	-0.34	0.043
81	Neve	0	0	-0.725	0.091	500	0	-0.725	0.091
81	Vento X	0	0	1.199	0	500	0	1.199	0
81	Vento Y	0	0	1.19	-0.15	500	0	1.19	-0.15
82	Permanenti portati	0	0	-0.34	0.043	500	0	-0.34	0.043
82	Neve	0	0	-0.725	0.091	500	0	-0.725	0.091
82	Vento X	0	0	1.199	0	500	0	1.199	0
82	Vento Y	0	0	1.19	-0.15	500	0	1.19	-0.15
83	Permanenti portati	0	0	-0.34	0.043	500	0	-0.34	0.043
83	Neve	0	0	-0.725	0.091	500	0	-0.725	0.091
83	Vento X	0	0	1.199	0	500	0	1.199	0
83	Vento Y	0	0	1.19	-0.15	500	0	1.19	-0.15
84	Permanenti portati	0	0	-0.34	0.043	500	0	-0.34	0.043
84	Neve	0	0	-0.725	0.091	500	0	-0.725	0.091
84	Vento X	0	0	1.199	0	500	0	1.199	0
84	Vento Y	0	0	1.19	-0.15	500	0	1.19	-0.15
85	Permanenti portati	0	0	-0.34	0.043	500	0	-0.34	0.043
85	Neve	0	0	-0.725	0.091	500	0	-0.725	0.091
85	Vento X	0	0	1.199	0	500	0	1.199	0
85	Vento Y	0	0	1.19	-0.15	500	0	1.19	-0.15
86	Permanenti portati	0	0	-0.34	0.043	500	0	-0.34	0.043
86	Neve	0	0	-0.725	0.091	500	0	-0.725	0.091
86	Vento X	0	0	1.199	0	500	0	1.199	0
86	Vento Y	0	0	1.19	-0.15	500	0	1.19	-0.15
87	Permanenti portati	0	0	-0.34	0.043	500	0	-0.34	0.043
87	Neve	0	0	-0.725	0.091	500	0	-0.725	0.091
87	Vento X	0	0	1.199	0	500	0	1.199	0
87	Vento Y	0	0	1.19	-0.15	500	0	1.19	-0.15
88	Permanenti portati	0	0	-0.24	0.03	500	0	-0.24	0.03
88	Neve	0	0	-0.512	0.064	500	0	-0.512	0.064
88	Vento X	0	0	0.847	0	500	0	0.847	0
88	Vento Y	0	0	0.84	-0.106	500	0	0.84	-0.106
89	Permanenti portati	0	0	-0.24	0.03	500	0	-0.24	0.03
89	Neve	0	0	-0.512	0.064	500	0	-0.512	0.064
89	Vento X	0	0	0.847	0	500	0	0.847	0
89	Vento Y	0	0	0.84	-0.106	500	0	0.84	-0.106
90	Permanenti portati	0	0	-0.34	0.043	500	0	-0.34	0.043
90	Neve	0	0	-0.725	0.091	500	0	-0.725	0.091
90	Vento X	0	0	1.199	0	500	0	1.199	0
90	Vento Y	0	0	1.19	-0.15	500	0	1.19	-0.15
91	Permanenti portati	0	0	-0.34	0.043	500	0	-0.34	0.043
91	Neve	0	0	-0.725	0.091	500	0	-0.725	0.091
91	Vento X	0	0	1.199	0	500	0	1.199	0
91	Vento Y	0	0	1.19	-0.15	500	0	1.19	-0.15

38.2 Caratteristiche meccaniche aste

I seguenti dati si riferiscono alle caratteristiche meccaniche delle aste utilizzate dal solutore ad elementi finiti. Normalmente differiscono dalle caratteristiche inerziali delle sezioni definite nel database. Tengono conto dei moltiplicatori inerziali espressi nelle preferenze FEM e di indicazioni tratte dalla bibliografia (SAP 90 Volume I Figura X-8; Belluzzi Vol. 1).

***I.**: Numero dell'elemento nell'insieme che lo contiene.*
***Area**: Area della sezione trasversale. [cm2]*
***Area 2**: Area di taglio per sforzo di taglio nella direzione 2. [cm2]*
***Area 3**: Area di taglio per sforzo di taglio nella direzione 3. [cm2]*
***In.2**: Momento d'inerzia attorno all'asse locale 2. [cm4]*
***In.3**: Momento d'inerzia attorno all'asse locale 3. [cm4]*
***In.tors.**: Momento d'inerzia torsionale corretto con il fattore di torsione. [cm4]*

***E**: Modulo di elasticità longitudinale. [daN/cm2]*
***G**: Modulo di elasticità tangenziale. [daN/cm2]*
***Alfa**: Coefficiente di dilatazione termica longitudinale. [°C-1]*
***P.unit.**: Peso per unità di lunghezza dell'elemento. [daN/cm]*
***S.fibre**: Caratteristiche della sezione a fibre*
***Sez.corr.**: Sezione degli elementi correlati.*
***Desc.**: Descrizione o nome assegnato all'elemento.*
***Mat.corr.**: Materiale degli elementi correlati.*
***Desc.**: Descrizione o nome assegnato all'elemento.*

I.	Area	Area 2	Area 3	In.2	In.3	In.tors.	E	G	Alfa	P.unit.	S.fibre	Sez.corr.	Mat.corr.
												Desc.	Desc.
1	53	26	26	2960	2960	5919	2100000	807692	0.000012	0.416		EN10219 219,1x8	S235
2	218	59	130	11722	79940	388	2100000	807692	0.000012	1.712		HEB450	S235
3	39	9	24	616	1675	9	2100000	807692	0.000012	0.305		HEA160	S235
4	2827	2545	2545	628044	628044	12397	285000	129546	0.00001	7.069			
5	53	26	26	2960	2960	5919	2060000	792308	0.000012	0.416		EN10219 219,1x8	FE360

38.3 Definizioni aste

***Indice**: Numero dell'elemento nell'insieme che lo contiene.*
***Nodo I**: Nodo iniziale.*
***Nodo J**: Nodo finale.*
***Nodo K**: Nodo che definisce l'asse locale 2.*
***Sezione**: Caratteristiche inerziali-meccaniche della sezione.*
***Indice**: Numero dell'elemento nell'insieme che lo contiene.*

Indice	Nodo I	Nodo J	Nodo K	Sezione	Indice	Nodo I	Nodo J	Nodo K	Sezione
				Indice					Indice
1	45	56	106	1	2	45	68	106	1
3	47	57	106	1	4	47	69	106	1
5	49	58	106	1	6	49	70	106	1
7	44	101	106	1	8	46	102	106	1
9	48	103	106	1	10	48	85	106	1
11	46	84	106	1	12	44	83	106	1
13	50	53	106	2	14	53	56	106	2
15	56	59	106	2	16	59	62	106	2
17	62	65	106	2	18	65	68	106	2
19	68	71	106	2	20	71	77	106	2
21	77	80	106	2	22	80	86	106	2
23	86	89	106	2	24	89	98	106	2
25	51	54	106	2	26	54	57	106	2
27	57	60	106	2	28	60	63	106	2
29	63	66	106	2	30	66	69	106	2
31	52	55	106	2	32	55	58	106	2
33	58	61	106	2	34	61	64	106	2
35	64	67	106	2	36	67	70	106	2
37	70	73	106	2	38	73	79	106	2
39	79	82	106	2	40	82	88	106	2
41	88	91	106	2	42	91	100	106	2
43	69	72	106	2	44	72	78	106	2
45	78	81	106	2	46	81	87	106	2
47	87	90	106	2	48	90	99	106	2
49	98	101	106	2	50	99	102	106	2
51	100	103	106	2	52	101	95	106	2
53	95	92	106	2	54	102	96	106	2
55	96	93	106	2	56	103	97	106	2
57	97	94	106	2	58	94	85	106	2
59	93	84	106	2	60	92	83	106	2
61	83	74	106	2	62	84	75	106	2
63	85	76	106	2	64	74	75	147	3
65	75	76	148	3	66	83	84	165	3
67	84	85	166	3	68	92	93	182	3
69	93	94	183	3	70	101	102	193	3
71	102	103	195	3	72	98	99	187	3
73	99	100	189	3	74	50	51	119	3
75	51	52	121	3	76	89	90	175	3
77	90	91	179	3	78	86	87	169	3
79	87	88	173	3	80	80	81	158	3
81	81	82	161	3	82	77	78	151	3
83	78	79	154	3	84	71	72	142	3
85	72	73	145	3	86	65	66	136	3
87	66	67	139	3	88	53	54	124	3
89	54	55	127	3	90	62	63	130	3
91	63	64	132	3	92	32	26	109	4
93	26	20	109	4	94	20	14	109	4
95	14	8	109	4	96	8	2	109	4
97	34	28	113	4	98	28	22	113	4
99	22	16	113	4	100	16	10	113	4
101	10	4	113	4	102	36	30	117	4
103	30	24	117	4	104	24	18	117	4
105	18	12	117	4	106	12	6	117	4
107	37	31	118	4	108	31	25	118	4
109	25	19	118	4	110	19	13	118	4
111	13	7	118	4	112	35	29	114	4
113	29	23	114	4	114	23	17	114	4
115	17	11	114	4	116	11	5	114	4
117	33	27	110	4	118	27	21	110	4
119	21	15	110	4	120	15	9	110	4
121	9	3	110	4	122	40	46	105	5
123	42	48	105	5	124	38	44	105	5
125	43	49	105	5	126	41	47	105	5
127	39	45	105	5					

39 Definizioni aste

***Indice**: Numero dell'elemento nell'insieme che lo contiene.*
***Nodo I**: Nodo iniziale.*
***Nodo J**: Nodo finale.*
***Nodo K**: Nodo che definisce l'asse locale 2.*
***Sezione**: Caratteristiche inerziali-meccaniche della sezione.*
***Indice**: Numero dell'elemento nell'insieme che lo contiene.*

Indice	Nodo I	Nodo J	Nodo K	Sezione	Indice	Nodo I	Nodo J	Nodo K	Sezione
				Indice					Indice
1	45	56	106	1	2	45	68	106	1
3	47	57	106	1	4	47	69	106	1
5	49	58	106	1	6	49	70	106	1
7	44	101	106	1	8	46	102	106	1
9	48	103	106	1	10	48	85	106	1
11	46	84	106	1	12	44	83	106	1
13	50	53	106	2	14	53	56	106	2
15	56	59	106	2	16	59	62	106	2
17	62	65	106	2	18	65	68	106	2
19	68	71	106	2	20	71	77	106	2
21	77	80	106	2	22	80	86	106	2
23	86	89	106	2	24	89	98	106	2
25	51	54	106	2	26	54	57	106	2
27	57	60	106	2	28	60	63	106	2
29	63	66	106	2	30	66	69	106	2
31	52	55	106	2	32	55	58	106	2
33	58	61	106	2	34	61	64	106	2
35	64	67	106	2	36	67	70	106	2
37	70	73	106	2	38	73	79	106	2
39	79	82	106	2	40	82	88	106	2
41	88	91	106	2	42	91	100	106	2
43	69	72	106	2	44	72	78	106	2
45	78	81	106	2	46	81	87	106	2
47	87	90	106	2	48	90	99	106	2
49	98	101	106	2	50	99	102	106	2
51	100	103	106	2	52	101	95	106	2
53	95	92	106	2	54	102	96	106	2
55	96	93	106	2	56	103	97	106	2
57	97	94	106	2	58	94	85	106	2
59	93	84	106	2	60	92	83	106	2
61	83	74	106	2	62	84	75	106	2
63	85	76	106	2	64	74	75	147	3
65	75	76	148	3	66	83	84	165	3
67	84	85	166	3	68	92	93	182	3
69	93	94	183	3	70	101	102	193	3
71	102	103	195	3	72	98	99	187	3
73	99	100	189	3	74	50	51	119	3
75	51	52	121	3	76	89	90	175	3
77	90	91	179	3	78	86	87	169	3
79	87	88	173	3	80	80	81	158	3
81	81	82	161	3	82	77	78	151	3
83	78	79	154	3	84	71	72	142	3
85	72	73	145	3	86	65	66	136	3
87	66	67	139	3	88	53	54	124	3
89	54	55	127	3	90	62	63	130	3
91	63	64	132	3	92	32	26	109	4
93	26	20	109	4	94	20	14	109	4
95	14	8	109	4	96	8	2	109	4
97	34	28	113	4	98	28	22	113	4
99	22	16	113	4	100	16	10	113	4
101	10	4	113	4	102	36	30	117	4
103	30	24	117	4	104	24	18	117	4
105	18	12	117	4	106	12	6	117	4
107	37	31	118	4	108	31	25	118	4
109	25	19	118	4	110	19	13	118	4
111	13	7	118	4	112	35	29	114	4
113	29	23	114	4	114	23	17	114	4
115	17	11	114	4	116	11	5	114	4
117	33	27	110	4	118	27	21	110	4
119	21	15	110	4	120	15	9	110	4
121	9	3	110	4	122	40	46	105	5
123	42	48	105	5	124	38	44	105	5
125	43	49	105	5	126	41	47	105	5
127	39	45	105	5					

40 Caratteristiche meccaniche aste

I seguenti dati si riferiscono alle caratteristiche meccaniche delle aste utilizzate dal solutore ad elementi finiti. Normalmente differiscono dalle caratteristiche inerziali delle sezioni definite nel database. Tengono conto dei moltiplicatori inerziali espressi nelle preferenze FEM e di indicazioni tratte dalla bibliografia (SAP 90 Volume I Figura X-8; Belluzzi Vol. 1).

***I.**: Numero dell'elemento nell'insieme che lo contiene.*
***Area**: Area della sezione trasversale. [cm2]*
***Area 2**: Area di taglio per sforzo di taglio nella direzione 2. [cm2]*
***Area 3**: Area di taglio per sforzo di taglio nella direzione 3. [cm2]*
***In.2**: Momento d'inerzia attorno all'asse locale 2. [cm4]*
***In.3**: Momento d'inerzia attorno all'asse locale 3. [cm4]*

***In.tors.**: Momento d'inerzia torsionale corretto con il fattore di torsione. [cm4]*
***E**: Modulo di elasticità longitudinale. [daN/cm2]*
***G**: Modulo di elasticità tangenziale. [daN/cm2]*
***Alfa**: Coefficiente di dilatazione termica longitudinale. [°C-1]*
***P.unit.**: Peso per unità di lunghezza dell'elemento. [daN/cm]*
***S.fibre**: Caratteristiche della sezione a fibre*
***Sez.corr.**: Sezione degli elementi correlati.*
***Desc.**: Descrizione o nome assegnato all'elemento.*
***Mat.corr.**: Materiale degli elementi correlati.*
***Desc.**: Descrizione o nome assegnato all'elemento.*

I.	Area	Area 2	Area 3	In.2	In.3	In.tors.	E	G	Alfa	P.unit.	S.fibre	Sez.corr.	Mat.corr.
												Desc.	Desc.
1	53	26	26	2960	2960	5919	2100000	807692	0.000012	0.416		EN10219 219,1x8	S235
2	218	59	130	11722	79940	388	2100000	807692	0.000012	1.712		HEB450	S235
3	39	9	24	616	1675	9	2100000	807692	0.000012	0.305		HEA160	S235
4	2827	2545	2545	628044	628044	12397	285000	129546	0.00001	7.069			
5	53	26	26	2960	2960	5919	2060000	792308	0.000012	0.416		EN10219 219,1x8	FE360

41 Caratteristiche meccaniche bielle

***Indice**: Numero dell'elemento nell'insieme che lo contiene.*
***Area**: Area della sezione trasversale. [cm2]*
***Rigidezza**: Caratteristiche rigidezza di una sezione di biella.*
***Alfa**: Coefficiente di dilatazione termica longitudinale. [°C-1]*
***Peso unitario**: Peso per unità di lunghezza dell'asta. [daN/cm]*

Indice	Area	Rigidezza	Alfa	Peso unitario
1	1	2100000; 0; 7088218	0.000012	0.006

42 Bielle

***Indice**: Numero dell'elemento nell'insieme che lo contiene.*
***Nodo I**: Nodo iniziale.*
***Nodo J**: Nodo finale.*
***Sezione**: Caratteristiche inerziali-meccaniche della sezione.*
***Indice**: Numero dell'elemento nell'insieme che lo contiene.*
***Tronco rigido iniziale**: Ampiezza del tronco rigido iniziale. [cm]*
***Tronco rigido finale**: Ampiezza del tronco rigido finale. [cm]*
***Variazione termica**: Variazione termica a cui è soggetto l'elemento. [°C]*

Indice	Nodo I	Nodo J	Sezione	Tronco rigido iniziale	Tronco rigido finale	Variazione termica
			Indice			
1	65	72	1	0	0	0
2	72	79	1	0	0	0
3	79	81	1	0	0	0
4	81	77	1	0	0	0
5	77	72	1	0	0	0
6	72	67	1	0	0	0
7	66	73	1	0	0	0
8	73	78	1	0	0	0
9	78	82	1	0	0	0
10	82	87	1	0	0	0
11	87	91	1	0	0	0
12	91	99	1	0	0	0
13	100	90	1	0	0	0
14	90	88	1	0	0	0
15	88	81	1	0	0	0
16	81	86	1	0	0	0
17	86	90	1	0	0	0
18	90	98	1	0	0	0
19	99	89	1	0	0	0
20	89	87	1	0	0	0
21	87	80	1	0	0	0
22	80	78	1	0	0	0
23	78	71	1	0	0	0
24	71	66	1	0	0	0
25	65	63	1	0	0	0
26	63	67	1	0	0	0
27	64	66	1	0	0	0
28	66	62	1	0	0	0
29	62	54	1	0	0	0
30	54	64	1	0	0	0
31	55	63	1	0	0	0
32	63	53	1	0	0	0
33	53	51	1	0	0	0
34	51	55	1	0	0	0
35	52	54	1	0	0	0
36	54	50	1	0	0	0
37	98	102	1	0	0	0
38	102	100	1	0	0	0
39	103	99	1	0	0	0
40	99	101	1	0	0	0

Indice	Nodo I	Nodo J	Sezione	Tronco rigido iniziale	Tronco rigido finale	Variazione termica
			Indice			
41	101	93	1	0	0	0
42	93	103	1	0	0	0
43	94	102	1	0	0	0
44	102	92	1	0	0	0
45	92	84	1	0	0	0
46	84	94	1	0	0	0
47	85	93	1	0	0	0
48	93	83	1	0	0	0
49	83	75	1	0	0	0
50	75	85	1	0	0	0
51	76	84	1	0	0	0
52	84	74	1	0	0	0

43 Risultati numerici

43.1 Spostamenti nodali

43.1.1 Spostamenti nodali in combinazioni di carico

***Nodo**: Nodo interessato dallo spostamento.*
***Ind.**: Indice del nodo.*
***x**: Componente X della posizione del nodo. [cm]*
***y**: Componente Y della posizione del nodo. [cm]*
***z**: Componente Z della posizione del nodo. [cm]*
***Cont.**: Condizione o combinazione di carico a cui si riferisce lo spostamento.*
***n.br.**: Nome breve della condizione o combinazione di carico.*
***spostamento**: Spostamento traslazionale del nodo.*
***ux**: Componente X dello spostamento del nodo. [cm]*
***uy**: Componente Y dello spostamento del nodo. [cm]*
***uz**: Componente Z dello spostamento del nodo. [cm]*
***rotazione**: Spostamento rotazionale del nodo.*
***rx**: Componente X della rotazione del nodo. [deg]*
***ry**: Componente Y della rotazione del nodo. [deg]*
***rz**: Componente Z della rotazione del nodo. [deg]*

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
2	575	210	-830	SLU 1	0.02667	0	-0.0801	0	-0.0047	0
2	575	210	-830	SLU 2	-0.0075	-0.02374	-0.05918	-0.003	0.0013	-0.0175
2	575	210	-830	SLU 3	-0.04132	-0.02373	-0.04617	-0.003	0.0072	-0.0175
2	575	210	-830	SLU 4	-0.02971	0	-0.0584	0	0.0052	0
2	575	210	-830	SLU 5	-0.0502	-0.01424	-0.04585	-0.0018	0.0088	-0.0105
2	575	210	-830	SLU 6	0.00364	-0.02374	-0.06548	-0.003	-0.0006	-0.0175
2	575	210	-830	SLU 7	-0.03018	-0.02373	-0.05246	-0.003	0.0053	-0.0175
2	575	210	-830	SLU 8	-0.01856	0	-0.0647	0	0.0032	0
2	575	210	-830	SLU 9	-0.03906	-0.01424	-0.05215	-0.0018	0.0068	-0.0105
2	575	210	-830	SLU 10	0.04896	0	-0.09269	0	-0.0086	0
2	575	210	-830	SLU 11	0.02845	-0.01425	-0.08014	-0.0018	-0.005	-0.0105
2	575	210	-830	SLU 12	0.01513	0	-0.07967	0	-0.0026	0
2	575	210	-830	SLU 13	-0.00537	-0.01424	-0.06712	-0.0018	0.0009	-0.0105
2	575	210	-830	SLU 14	0.037	0	-0.08607	0	-0.0065	0
2	575	210	-830	SLU 15	0.00283	-0.02374	-0.06515	-0.003	-0.0005	-0.0175
2	575	210	-830	SLU 16	-0.03099	-0.02373	-0.05213	-0.003	0.0054	-0.0175
2	575	210	-830	SLU 17	-0.01937	0	-0.06437	0	0.0034	0
2	575	210	-830	SLU 18	-0.03987	-0.01424	-0.05182	-0.0018	0.007	-0.0105
2	575	210	-830	SLU 19	0.01398	-0.02375	-0.07144	-0.003	-0.0024	-0.0175
2	575	210	-830	SLU 20	-0.01984	-0.02374	-0.05843	-0.003	0.0035	-0.0175
2	575	210	-830	SLU 21	-0.00823	0	-0.07066	0	0.0014	0
2	575	210	-830	SLU 22	-0.02873	-0.01424	-0.05811	-0.0018	0.005	-0.0105
2	575	210	-830	SLU 23	0.05929	0	-0.09865	0	-0.0104	0
2	575	210	-830	SLU 24	0.03878	-0.01425	-0.0861	-0.0018	-0.0068	-0.0105
2	575	210	-830	SLU 25	0.02547	0	-0.08564	0	-0.0045	0
2	575	210	-830	SLU 26	0.00497	-0.01425	-0.07309	-0.0018	-0.0009	-0.0105
2	575	210	-830	SLU 27	0.03467	0	-0.10413	0	-0.0061	0
2	575	210	-830	SLU 28	0.0005	-0.02374	-0.08321	-0.003	-0.0001	-0.0175
2	575	210	-830	SLU 29	-0.03332	-0.02374	-0.0702	-0.003	0.0058	-0.0175
2	575	210	-830	SLU 30	-0.02171	0	-0.08243	0	0.0038	0
2	575	210	-830	SLU 31	-0.0422	-0.01424	-0.06988	-0.0018	0.0074	-0.0105
2	575	210	-830	SLU 32	0.01164	-0.02375	-0.08951	-0.003	-0.002	-0.0175
2	575	210	-830	SLU 33	-0.02218	-0.02374	-0.07649	-0.003	0.0039	-0.0175
2	575	210	-830	SLU 34	-0.01056	0	-0.08873	0	0.0018	0
2	575	210	-830	SLU 35	-0.03106	-0.01424	-0.07618	-0.0018	0.0054	-0.0105
2	575	210	-830	SLU 36	0.05696	0	-0.11672	0	-0.01	0
2	575	210	-830	SLU 37	0.03645	-0.01425	-0.10417	-0.0018	-0.0064	-0.0105
2	575	210	-830	SLU 38	0.02314	0	-0.1037	0	-0.004	0
2	575	210	-830	SLU 39	0.00264	-0.01424	-0.09115	-0.0018	-0.0005	-0.0105
2	575	210	-830	SLU 40	0.045	0	-0.11009	0	-0.0079	0
2	575	210	-830	SLU 41	0.01083	-0.02374	-0.08918	-0.003	-0.0019	-0.0175
2	575	210	-830	SLU 42	-0.02298	-0.02374	-0.07616	-0.003	0.004	-0.0175
2	575	210	-830	SLU 43	-0.01137	0	-0.0884	0	0.002	0
2	575	210	-830	SLU 44	-0.03187	-0.01424	-0.07585	-0.0018	0.0056	-0.0105
2	575	210	-830	SLU 45	0.02197	-0.02375	-0.09547	-0.003	-0.0038	-0.0175
2	575	210	-830	SLU 46	-0.01184	-0.02374	-0.08246	-0.003	0.0021	-0.0175
2	575	210	-830	SLU 47	-0.00023	0	-0.09469	0	0	0
2	575	210	-830	SLU 48	-0.02072	-0.01424	-0.08214	-0.0018	0.0036	-0.0105
2	575	210	-830	SLU 49	0.06729	0	-0.12268	0	-0.0118	0
2	575	210	-830	SLU 50	0.04679	-0.01425	-0.11013	-0.0018	-0.0082	-0.0105
2	575	210	-830	SLU 51	0.03347	0	-0.10967	0	-0.0059	0
2	575	210	-830	SLU 52	0.01297	-0.01425	-0.09712	-0.0018	-0.0023	-0.0105
2	575	210	-830	SLE RA 1	0.03356	0	-0.08408	0	-0.0059	0
2	575	210	-830	SLE RA 2	0.01078	-0.01583	-0.07013	-0.002	-0.0019	-0.0117
2	575	210	-830	SLE RA 3	-0.01177	-0.01582	-0.06145	-0.002	0.0021	-0.0117

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
2	575	210	-830	SLE RA 4	-0.00402	0	-0.06961	0	0.0007	0
2	575	210	-830	SLE RA 5	-0.01769	-0.00949	-0.06125	-0.0012	0.0031	-0.007
2	575	210	-830	SLE RA 6	0.0182	-0.01583	-0.07433	-0.002	-0.0032	-0.0117
2	575	210	-830	SLE RA 7	-0.00434	-0.01583	-0.06565	-0.002	0.0008	-0.0117
2	575	210	-830	SLE RA 8	0.00341	0	-0.07381	0	-0.0006	0
2	575	210	-830	SLE RA 9	-0.01026	-0.00949	-0.06544	-0.0012	0.0018	-0.007
2	575	210	-830	SLE RA 10	0.04842	0	-0.09247	0	-0.0085	0
2	575	210	-830	SLE RA 11	0.03475	-0.0095	-0.0841	-0.0012	-0.0061	-0.007
2	575	210	-830	SLE RA 12	0.02587	0	-0.08379	0	-0.0045	0
2	575	210	-830	SLE RA 13	0.0122	-0.0095	-0.07542	-0.0012	-0.0021	-0.007
2	575	210	-830	SLE FR 1	0.03356	0	-0.08408	0	-0.0059	0
2	575	210	-830	SLE FR 2	0.029	-0.00317	-0.08129	-0.0004	-0.0051	-0.0023
2	575	210	-830	SLE FR 3	0.02604	0	-0.08118	0	-0.0046	0
2	575	210	-830	SLE FR 4	0.03653	0	-0.08576	0	-0.0064	0
2	575	210	-830	SLE QP 1	0.03356	0	-0.08408	0	-0.0059	0
2	575	210	-830	SLD 1	0.05283	0.01986	-0.08629	0.0025	-0.0092	0.0173
2	575	210	-830	SLD 2	0.05283	0.01986	-0.08629	0.0025	-0.0092	0.0173
2	575	210	-830	SLD 3	0.05983	-0.01986	-0.08665	-0.0025	-0.0105	-0.0173
2	575	210	-830	SLD 4	0.05983	-0.01986	-0.08665	-0.0025	-0.0105	-0.0173
2	575	210	-830	SLD 5	0.02874	0.0662	-0.0842	0.0083	-0.005	0.0578
2	575	210	-830	SLD 6	0.02874	0.0662	-0.0842	0.0083	-0.005	0.0578
2	575	210	-830	SLD 7	0.05205	-0.06622	-0.08539	-0.0083	-0.0091	-0.0577
2	575	210	-830	SLD 8	0.05205	-0.06622	-0.08539	-0.0083	-0.0091	-0.0577
2	575	210	-830	SLD 9	0.01508	0.0662	-0.08277	0.0083	-0.0026	0.0578
2	575	210	-830	SLD 10	0.01508	0.0662	-0.08277	0.0083	-0.0026	0.0578
2	575	210	-830	SLD 11	0.03838	-0.06622	-0.08395	-0.0083	-0.0067	-0.0577
2	575	210	-830	SLD 12	0.03838	-0.06622	-0.08395	-0.0083	-0.0067	-0.0577
2	575	210	-830	SLD 13	0.0073	0.01986	-0.08151	0.0025	-0.0013	0.0173
2	575	210	-830	SLD 14	0.0073	0.01986	-0.08151	0.0025	-0.0013	0.0173
2	575	210	-830	SLD 15	0.01429	-0.01987	-0.08186	-0.0025	-0.0025	-0.0173
2	575	210	-830	SLD 16	0.01429	-0.01987	-0.08186	-0.0025	-0.0025	-0.0173
2	575	210	-830	SLV 1	0.08307	0.05102	-0.08977	0.0064	-0.0145	0.0445
2	575	210	-830	SLV 2	0.08307	0.05102	-0.08977	0.0064	-0.0145	0.0445
2	575	210	-830	SLV 3	0.10103	-0.05103	-0.09068	-0.0064	-0.0177	-0.0445
2	575	210	-830	SLV 4	0.10103	-0.05103	-0.09068	-0.0064	-0.0177	-0.0445
2	575	210	-830	SLV 5	0.02118	0.17005	-0.0844	0.0214	-0.0037	0.1484
2	575	210	-830	SLV 6	0.02118	0.17005	-0.0844	0.0214	-0.0037	0.1484
2	575	210	-830	SLV 7	0.08105	-0.1701	-0.08744	-0.0214	-0.0142	-0.1483
2	575	210	-830	SLV 8	0.08105	-0.1701	-0.08744	-0.0214	-0.0142	-0.1483
2	575	210	-830	SLV 9	-0.01392	0.17005	-0.08072	0.0214	0.0024	0.1484
2	575	210	-830	SLV 10	-0.01392	0.17005	-0.08072	0.0214	0.0024	0.1484
2	575	210	-830	SLV 11	0.04595	-0.1701	-0.08375	-0.0214	-0.008	-0.1483
2	575	210	-830	SLV 12	0.04595	-0.1701	-0.08375	-0.0214	-0.008	-0.1483
2	575	210	-830	SLV 13	-0.03391	0.05102	-0.07748	0.0064	0.0059	0.0445
2	575	210	-830	SLV 14	-0.03391	0.05102	-0.07748	0.0064	0.0059	0.0445
2	575	210	-830	SLV 15	-0.01595	-0.05104	-0.07839	-0.0064	0.0028	-0.0445
2	575	210	-830	SLV 16	-0.01595	-0.05104	-0.07839	-0.0064	0.0028	-0.0445
2	575	210	-830	SLV FO 1	0.08307	0.05102	-0.08977	0.0064	-0.0145	0.0445
2	575	210	-830	SLV FO 2	0.08307	0.05102	-0.08977	0.0064	-0.0145	0.0445
2	575	210	-830	SLV FO 3	0.10103	-0.05103	-0.09068	-0.0064	-0.0177	-0.0445
2	575	210	-830	SLV FO 4	0.10103	-0.05103	-0.09068	-0.0064	-0.0177	-0.0445
2	575	210	-830	SLV FO 5	0.02118	0.17005	-0.0844	0.0214	-0.0037	0.1484
2	575	210	-830	SLV FO 6	0.02118	0.17005	-0.0844	0.0214	-0.0037	0.1484
2	575	210	-830	SLV FO 7	0.08105	-0.1701	-0.08744	-0.0214	-0.0142	-0.1483
2	575	210	-830	SLV FO 8	0.08105	-0.1701	-0.08744	-0.0214	-0.0142	-0.1483
2	575	210	-830	SLV FO 9	-0.01392	0.17005	-0.08072	0.0214	0.0024	0.1484
2	575	210	-830	SLV FO 10	-0.01392	0.17005	-0.08072	0.0214	0.0024	0.1484
2	575	210	-830	SLV FO 11	0.04595	-0.1701	-0.08375	-0.0214	-0.008	-0.1483
2	575	210	-830	SLV FO 12	0.04595	-0.1701	-0.08375	-0.0214	-0.008	-0.1483
2	575	210	-830	SLV FO 13	-0.03391	0.05102	-0.07748	0.0064	0.0059	0.0445
2	575	210	-830	SLV FO 14	-0.03391	0.05102	-0.07748	0.0064	0.0059	0.0445
2	575	210	-830	SLV FO 15	-0.01595	-0.05104	-0.07839	-0.0064	0.0028	-0.0445
2	575	210	-830	SLV FO 16	-0.01595	-0.05104	-0.07839	-0.0064	0.0028	-0.0445
3	2045	210	-830	SLU 1	-0.02532	0	-0.07544	0	0.0044	0
3	2045	210	-830	SLU 2	0.00793	-0.04328	-0.05915	-0.0063	-0.0014	-0.018
3	2045	210	-830	SLU 3	0.01339	-0.04329	-0.05034	-0.0063	-0.0023	-0.018
3	2045	210	-830	SLU 4	-0.01624	-0.00001	-0.06075	0	0.0028	0
3	2045	210	-830	SLU 5	0.00373	-0.02597	-0.05098	-0.0038	-0.0007	-0.0108
3	2045	210	-830	SLU 6	-0.00119	-0.04328	-0.06404	-0.0063	0.0002	-0.018
3	2045	210	-830	SLU 7	0.00428	-0.04329	-0.05523	-0.0063	-0.0007	-0.018
3	2045	210	-830	SLU 8	-0.02534	-0.00001	-0.06564	0	0.0044	0
3	2045	210	-830	SLU 9	-0.00538	-0.02597	-0.05587	-0.0038	0.0009	-0.0108
3	2045	210	-830	SLU 10	-0.04354	0	-0.08522	0	0.0076	0
3	2045	210	-830	SLU 11	-0.0236	-0.02597	-0.07545	-0.0038	0.0041	-0.0108
3	2045	210	-830	SLU 12	-0.03808	0	-0.07641	0	0.0067	0
3	2045	210	-830	SLU 13	-0.01813	-0.02597	-0.06663	-0.0038	0.0032	-0.0108
3	2045	210	-830	SLU 14	-0.03371	0	-0.08001	0	0.0059	0
3	2045	210	-830	SLU 15	-0.00047	-0.04328	-0.06373	-0.0063	0.0001	-0.018
3	2045	210	-830	SLU 16	0.005	-0.04329	-0.05491	-0.0063	-0.0009	-0.018
3	2045	210	-830	SLU 17	-0.02462	-0.00001	-0.06532	0	0.0043	0
3	2045	210	-830	SLU 18	-0.00467	-0.02597	-0.05555	-0.0038	0.0008	-0.0108
3	2045	210	-830	SLU 19	-0.00958	-0.04328	-0.06862	-0.0063	0.0017	-0.018
3	2045	210	-830	SLU 20	-0.0041	-0.04329	-0.0598	-0.0063	0.0007	-0.018
3	2045	210	-830	SLU 21	-0.03373	0	-0.07021	0	0.0059	0
3	2045	210	-830	SLU 22	-0.01377	-0.02597	-0.06044	-0.0038	0.0024	-0.0108
3	2045	210	-830	SLU 23	-0.05193	-0.00001	-0.08979	0	0.0091	0
3	2045	210	-830	SLU 24	-0.03199	-0.02597	-0.08002	-0.0038	0.0056	-0.0108
3	2045	210	-830	SLU 25	-0.04647	0	-0.08098	0	0.0081	0
3	2045	210	-830	SLU 26	-0.02652	-0.02597	-0.07121	-0.0038	0.0046	-0.0108
3	2045	210	-830	SLU 27	-0.03292	0	-0.09807	0	0.0058	0
3	2045	210	-830	SLU 28	0.00033	-0.04328	-0.08179	-0.0063	-0.0001	-0.018
3	2045	210	-830	SLU 29	0.00579	-0.04329	-0.07297	-0.0063	-0.001	-0.018
3	2045	210	-830	SLU 30	-0.02383	-0.00001	-0.08339	0	0.0042	0
3	2045	210	-830	SLU 31	-0.00387	-0.02597	-0.07361	-0.0038	0.0007	-0.0108
3	2045	210	-830	SLU 32	-0.00878	-0.04328	-0.08668	-0.0063	0.0015	-0.018
3	2045	210	-830	SLU 33	-0.00331	-0.04329	-0.07786	-0.0063	0.0006	-0.018
3	2045	210	-830	SLU 34	-0.03294	-0.00001	-0.08828	0	0.0058	0
3	2045	210	-830	SLU 35	-0.01298	-0.02597	-0.0785	-0.0038	0.0023	-0.0108
3	2045	210	-830	SLU 36	-0.05113	-0.00001	-0.10785	0	0.0089	0
3	2045	210	-830	SLU 37	-0.03119	-0.02597	-0.09808	-0.0038	0.0055	-0.0108
3	2045	210	-830	SLU 38	-0.04567	0	-0.09904	0	0.008	0
3	2045	210	-830	SLU 39	-0.02572	-0.02597	-0.08927	-0.0038	0.0045	-0.0108
3	2045	210	-830	SLU 40	-0.04131	0	-0.10265	0	0.0072	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
3	2045	210	-830	SLU 41	-0.00806	-0.04328	-0.08636	-0.0063	0.0014	-0.018
3	2045	210	-830	SLU 42	-0.00259	-0.04329	-0.07754	-0.0063	0.0005	-0.018
3	2045	210	-830	SLU 43	-0.03222	-0.00001	-0.08796	0	0.0056	0
3	2045	210	-830	SLU 44	-0.01226	-0.02597	-0.07818	-0.0038	0.0021	-0.0108
3	2045	210	-830	SLU 45	-0.01718	-0.04328	-0.09125	-0.0063	0.003	-0.018
3	2045	210	-830	SLU 46	-0.0117	-0.04329	-0.08243	-0.0063	0.002	-0.018
3	2045	210	-830	SLU 47	-0.04132	0	-0.09285	0	0.0072	0
3	2045	210	-830	SLU 48	-0.02137	-0.02597	-0.08307	-0.0038	0.0037	-0.0108
3	2045	210	-830	SLU 49	-0.05952	-0.00001	-0.11243	0	0.0104	0
3	2045	210	-830	SLU 50	-0.03958	-0.02597	-0.10265	-0.0038	0.0069	-0.0108
3	2045	210	-830	SLU 51	-0.05407	0	-0.10361	0	0.0095	0
3	2045	210	-830	SLU 52	-0.03412	-0.02597	-0.09384	-0.0038	0.006	-0.0108
3	2045	210	-830	SLE RA 1	-0.03091	0	-0.07849	0	0.0054	0
3	2045	210	-830	SLE RA 2	-0.00875	-0.02885	-0.06763	-0.0042	0.0015	-0.012
3	2045	210	-830	SLE RA 3	-0.0051	-0.02886	-0.06175	-0.0042	0.0009	-0.012
3	2045	210	-830	SLE RA 4	-0.02485	0	-0.0687	0	0.0043	0
3	2045	210	-830	SLE RA 5	-0.01155	-0.01731	-0.06218	-0.0025	0.002	-0.0072
3	2045	210	-830	SLE RA 6	-0.01483	-0.02885	-0.07089	-0.0042	0.0026	-0.012
3	2045	210	-830	SLE RA 7	-0.01118	-0.02886	-0.06501	-0.0042	0.002	-0.012
3	2045	210	-830	SLE RA 8	-0.03092	0	-0.07196	0	0.0054	0
3	2045	210	-830	SLE RA 9	-0.01762	-0.01732	-0.06544	-0.0025	0.0031	-0.0072
3	2045	210	-830	SLE RA 10	-0.04306	0	-0.08501	0	0.0075	0
3	2045	210	-830	SLE RA 11	-0.02977	-0.01731	-0.07849	-0.0025	0.0052	-0.0072
3	2045	210	-830	SLE RA 12	-0.03942	0	-0.07913	0	0.0069	0
3	2045	210	-830	SLE RA 13	-0.02612	-0.01731	-0.07262	-0.0025	0.0046	-0.0072
3	2045	210	-830	SLE FR 1	-0.03091	0	-0.07849	0	0.0054	0
3	2045	210	-830	SLE FR 2	-0.02648	-0.00577	-0.07632	-0.0008	0.0046	-0.0024
3	2045	210	-830	SLE FR 3	-0.0297	0	-0.07653	0	0.0052	0
3	2045	210	-830	SLE FR 4	-0.03334	0	-0.07979	0	0.0058	0
3	2045	210	-830	SLE QP 1	-0.03091	0	-0.07849	0	0.0054	0
3	2045	210	-830	SLD 1	-0.00035	0.01961	-0.07656	0.0026	0.0001	0.0099
3	2045	210	-830	SLD 2	-0.00035	0.01961	-0.07656	0.0026	0.0001	0.0099
3	2045	210	-830	SLD 3	0.01278	-0.01965	-0.07559	-0.0026	-0.0022	-0.0099
3	2045	210	-830	SLD 4	0.01278	-0.01965	-0.07559	-0.0026	-0.0022	-0.0099
3	2045	210	-830	SLD 5	-0.04165	0.06535	-0.07937	0.0085	0.0073	0.033
3	2045	210	-830	SLD 6	-0.04165	0.06535	-0.07937	0.0085	0.0073	0.033
3	2045	210	-830	SLD 7	0.00212	-0.06548	-0.07616	-0.0085	-0.0004	-0.0332
3	2045	210	-830	SLD 8	0.00212	-0.06548	-0.07616	-0.0085	-0.0004	-0.0332
3	2045	210	-830	SLD 9	-0.06392	0.06535	-0.08082	0.0085	0.0112	0.033
3	2045	210	-830	SLD 10	-0.06392	0.06535	-0.08082	0.0085	0.0112	0.033
3	2045	210	-830	SLD 11	-0.02016	-0.06548	-0.07761	-0.0085	0.0035	-0.0332
3	2045	210	-830	SLD 12	-0.02016	-0.06548	-0.07761	-0.0085	0.0035	-0.0332
3	2045	210	-830	SLD 13	-0.07459	0.0196	-0.08139	0.0026	0.013	0.0099
3	2045	210	-830	SLD 14	-0.07459	0.0196	-0.08139	0.0026	0.013	0.0099
3	2045	210	-830	SLD 15	-0.06147	-0.01964	-0.08042	-0.0026	0.0107	-0.0099
3	2045	210	-830	SLD 16	-0.06147	-0.01964	-0.08042	-0.0026	0.0107	-0.0099
3	2045	210	-830	SLV 1	0.04759	0.05037	-0.07352	0.0066	-0.0083	0.0254
3	2045	210	-830	SLV 2	0.04759	0.05037	-0.07352	0.0066	-0.0083	0.0254
3	2045	210	-830	SLV 3	0.08132	-0.05047	-0.07104	-0.0066	-0.0142	-0.0256
3	2045	210	-830	SLV 4	0.08132	-0.05047	-0.07104	-0.0066	-0.0142	-0.0256
3	2045	210	-830	SLV 5	-0.05851	0.16789	-0.08076	0.0219	0.0102	0.0848
3	2045	210	-830	SLV 6	-0.05851	0.16789	-0.08076	0.0219	0.0102	0.0848
3	2045	210	-830	SLV 7	0.05394	-0.16821	-0.07249	-0.0219	-0.0094	-0.0852
3	2045	210	-830	SLV 8	0.05394	-0.16821	-0.07249	-0.0219	-0.0094	-0.0852
3	2045	210	-830	SLV 9	-0.11573	0.16789	-0.08449	0.0219	0.0202	0.0848
3	2045	210	-830	SLV 10	-0.11573	0.16789	-0.08449	0.0219	0.0202	0.0848
3	2045	210	-830	SLV 11	-0.00328	-0.16821	-0.07622	-0.0219	0.0006	-0.0852
3	2045	210	-830	SLV 12	-0.00328	-0.16821	-0.07622	-0.0219	0.0006	-0.0852
3	2045	210	-830	SLV 13	-0.14313	0.05036	-0.08594	0.0066	0.025	0.0254
3	2045	210	-830	SLV 14	-0.14313	0.05036	-0.08594	0.0066	0.025	0.0254
3	2045	210	-830	SLV 15	-0.10941	-0.05046	-0.08346	-0.0066	0.0191	-0.0255
3	2045	210	-830	SLV 16	-0.10941	-0.05046	-0.08346	-0.0066	0.0191	-0.0255
3	2045	210	-830	SLV FO 1	0.04759	0.05037	-0.07352	0.0066	-0.0083	0.0254
3	2045	210	-830	SLV FO 2	0.04759	0.05037	-0.07352	0.0066	-0.0083	0.0254
3	2045	210	-830	SLV FO 3	0.08132	-0.05047	-0.07104	-0.0066	-0.0142	-0.0256
3	2045	210	-830	SLV FO 4	0.08132	-0.05047	-0.07104	-0.0066	-0.0142	-0.0256
3	2045	210	-830	SLV FO 5	-0.05851	0.16789	-0.08076	0.0219	0.0102	0.0848
3	2045	210	-830	SLV FO 6	-0.05851	0.16789	-0.08076	0.0219	0.0102	0.0848
3	2045	210	-830	SLV FO 7	0.05394	-0.16821	-0.07249	-0.0219	-0.0094	-0.0852
3	2045	210	-830	SLV FO 8	0.05394	-0.16821	-0.07249	-0.0219	-0.0094	-0.0852
3	2045	210	-830	SLV FO 9	-0.11573	0.16789	-0.08449	0.0219	0.0202	0.0848
3	2045	210	-830	SLV FO 10	-0.11573	0.16789	-0.08449	0.0219	0.0202	0.0848
3	2045	210	-830	SLV FO 11	-0.00328	-0.16821	-0.07622	-0.0219	0.0006	-0.0852
3	2045	210	-830	SLV FO 12	-0.00328	-0.16821	-0.07622	-0.0219	0.0006	-0.0852
3	2045	210	-830	SLV FO 13	-0.14313	0.05036	-0.08594	0.0066	0.025	0.0254
3	2045	210	-830	SLV FO 14	-0.14313	0.05036	-0.08594	0.0066	0.025	0.0254
3	2045	210	-830	SLV FO 15	-0.10941	-0.05046	-0.08346	-0.0066	0.0191	-0.0255
3	2045	210	-830	SLV FO 16	-0.10941	-0.05046	-0.08346	-0.0066	0.0191	-0.0255
4	575	710	-830	SLU 1	0.02929	0	-0.08406	0	-0.0051	0
4	575	710	-830	SLU 2	-0.03335	-0.02365	-0.04352	-0.003	0.0058	-0.0175
4	575	710	-830	SLU 3	-0.08466	-0.02364	-0.01886	-0.003	0.0148	-0.0175
4	575	710	-830	SLU 4	-0.05622	0	-0.04296	0	0.0098	0
4	575	710	-830	SLU 5	-0.09381	-0.01418	-0.01864	-0.0018	0.0164	-0.0105
4	575	710	-830	SLU 6	-0.01396	-0.02365	-0.05575	-0.003	0.0024	-0.0176
4	575	710	-830	SLU 7	-0.06528	-0.02364	-0.03109	-0.003	0.0114	-0.0175
4	575	710	-830	SLU 8	-0.03684	0	-0.05518	0	0.0064	0
4	575	710	-830	SLU 9	-0.07443	-0.01418	-0.03086	-0.0018	0.013	-0.0105
4	575	710	-830	SLU 10	0.06806	0	-0.1085	0	-0.0119	0
4	575	710	-830	SLU 11	0.03048	-0.01419	-0.08418	-0.0018	-0.0053	-0.0105
4	575	710	-830	SLU 12	0.01674	0	-0.08385	0	-0.0029	0
4	575	710	-830	SLU 13	-0.02084	-0.01419	-0.05952	-0.0018	0.0036	-0.0105
4	575	710	-830	SLU 14	0.04718	0	-0.09564	0	-0.0082	0
4	575	710	-830	SLU 15	-0.01545	-0.02365	-0.0551	-0.003	0.0027	-0.0176
4	575	710	-830	SLU 16	-0.06677	-0.02364	-0.03045	-0.003	0.0117	-0.0175
4	575	710	-830	SLU 17	-0.03833	0	-0.05454	0	0.0067	0
4	575	710	-830	SLU 18	-0.07592	-0.01418	-0.03022	-0.0018	0.0133	-0.0105
4	575	710	-830	SLU 19	0.00393	-0.02365	-0.06733	-0.003	-0.0007	-0.0176
4	575	710	-830	SLU 20	-0.04738	-0.02364	-0.04267	-0.003	0.0083	-0.0175
4	575	710	-830	SLU 21	-0.01895	0	-0.06676	0	0.0033	0
4	575	710	-830	SLU 22	-0.05653	-0.01418	-0.04244	-0.0018	0.0099	-0.0105

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
4	575	710	-830	SLU 23	0.08595	0	-0.12009	0	-0.015	0
4	575	710	-830	SLU 24	0.04837	-0.01419	-0.09576	-0.0018	-0.0085	-0.0105
4	575	710	-830	SLU 25	0.03463	0	-0.09543	0	-0.0061	0
4	575	710	-830	SLU 26	-0.00294	-0.01419	-0.07111	-0.0018	0.0005	-0.0105
4	575	710	-830	SLU 27	0.03807	0	-0.10928	0	-0.0067	0
4	575	710	-830	SLU 28	-0.02457	-0.02365	-0.06874	-0.003	0.0043	-0.0175
4	575	710	-830	SLU 29	-0.07587	-0.02364	-0.04408	-0.003	0.0133	-0.0175
4	575	710	-830	SLU 30	-0.04744	0	-0.06818	0	0.0083	0
4	575	710	-830	SLU 31	-0.08503	-0.01418	-0.04386	-0.0018	0.0149	-0.0105
4	575	710	-830	SLU 32	-0.00518	-0.02365	-0.08096	-0.003	0.0009	-0.0176
4	575	710	-830	SLU 33	-0.05649	-0.02364	-0.0563	-0.003	0.0099	-0.0175
4	575	710	-830	SLU 34	-0.02806	0	-0.0804	0	0.0049	0
4	575	710	-830	SLU 35	-0.06564	-0.01418	-0.05608	-0.0018	0.0115	-0.0105
4	575	710	-830	SLU 36	0.07684	0	-0.13372	0	-0.0134	0
4	575	710	-830	SLU 37	0.03926	-0.0142	-0.1094	-0.0018	-0.0069	-0.0105
4	575	710	-830	SLU 38	0.02552	0	-0.10906	0	-0.0045	0
4	575	710	-830	SLU 39	-0.01206	-0.01419	-0.08474	-0.0018	0.0021	-0.0105
4	575	710	-830	SLU 40	0.05597	0	-0.12086	0	-0.0098	0
4	575	710	-830	SLU 41	-0.00667	-0.02365	-0.08032	-0.003	0.0012	-0.0176
4	575	710	-830	SLU 42	-0.05798	-0.02364	-0.05566	-0.003	0.0101	-0.0175
4	575	710	-830	SLU 43	-0.02955	0	-0.07976	0	0.0052	0
4	575	710	-830	SLU 44	-0.06713	-0.01418	-0.05544	-0.0018	0.0117	-0.0105
4	575	710	-830	SLU 45	0.01272	-0.02366	-0.09254	-0.003	-0.0022	-0.0176
4	575	710	-830	SLU 46	-0.0386	-0.02364	-0.06789	-0.003	0.0067	-0.0175
4	575	710	-830	SLU 47	-0.01016	0	-0.09198	0	0.0018	0
4	575	710	-830	SLU 48	-0.04775	-0.01418	-0.06766	-0.0018	0.0083	-0.0105
4	575	710	-830	SLU 49	0.09474	0	-0.1453	0	-0.0166	0
4	575	710	-830	SLU 50	0.05716	-0.01419	-0.12098	-0.0018	-0.01	-0.0105
4	575	710	-830	SLU 51	0.04343	0	-0.12064	0	-0.0076	0
4	575	710	-830	SLU 52	0.00584	-0.01419	-0.09632	-0.0018	-0.001	-0.0105
4	575	710	-830	SLE RA 1	0.04122	0	-0.09178	0	-0.0072	0
4	575	710	-830	SLE RA 2	-0.00054	-0.01577	-0.06476	-0.002	0.0001	-0.0117
4	575	710	-830	SLE RA 3	-0.03475	-0.01576	-0.04832	-0.002	0.0061	-0.0117
4	575	710	-830	SLE RA 4	-0.01579	0	-0.06438	0	0.0028	0
4	575	710	-830	SLE RA 5	-0.04085	-0.00946	-0.04817	-0.0012	0.0071	-0.007
4	575	710	-830	SLE RA 6	0.01239	-0.01577	-0.0729	-0.002	-0.0022	-0.0117
4	575	710	-830	SLE RA 7	-0.02183	-0.01576	-0.05646	-0.002	0.0038	-0.0117
4	575	710	-830	SLE RA 8	-0.00287	0	-0.07253	0	0.0005	0
4	575	710	-830	SLE RA 9	-0.02793	-0.00946	-0.05631	-0.0012	0.0049	-0.007
4	575	710	-830	SLE RA 10	0.06706	0	-0.10808	0	-0.0117	0
4	575	710	-830	SLE RA 11	0.04201	-0.00946	-0.09186	-0.0012	-0.0073	-0.007
4	575	710	-830	SLE RA 12	0.03286	0	-0.09164	0	-0.0057	0
4	575	710	-830	SLE RA 13	0.0078	-0.00946	-0.07542	-0.0012	-0.0014	-0.007
4	575	710	-830	SLE FR 1	0.04122	0	-0.09178	0	-0.0072	0
4	575	710	-830	SLE FR 2	0.03287	-0.00315	-0.08637	-0.0004	-0.0057	-0.0023
4	575	710	-830	SLE FR 3	0.02982	0	-0.0863	0	-0.0052	0
4	575	710	-830	SLE FR 4	0.04639	0	-0.09504	0	-0.0081	0
4	575	710	-830	SLE QP 1	0.04122	0	-0.09178	0	-0.0072	0
4	575	710	-830	SLD 1	0.0666	0.01987	-0.09438	0.0025	-0.0116	0.0173
4	575	710	-830	SLD 2	0.0666	0.01987	-0.09438	0.0025	-0.0116	0.0173
4	575	710	-830	SLD 3	0.0666	-0.01987	-0.09438	-0.0025	-0.0116	-0.0173
4	575	710	-830	SLD 4	0.0666	-0.01987	-0.09438	-0.0025	-0.0116	-0.0173
4	575	710	-830	SLD 5	0.04882	0.06624	-0.09256	0.0083	-0.0085	0.0578
4	575	710	-830	SLD 6	0.04882	0.06624	-0.09256	0.0083	-0.0085	0.0578
4	575	710	-830	SLD 7	0.04882	-0.06624	-0.09256	-0.0083	-0.0085	-0.0578
4	575	710	-830	SLD 8	0.04882	-0.06624	-0.09256	-0.0083	-0.0085	-0.0578
4	575	710	-830	SLD 9	0.03359	0.06624	-0.091	0.0083	-0.0059	0.0578
4	575	710	-830	SLD 10	0.03359	0.06624	-0.091	0.0083	-0.0059	0.0578
4	575	710	-830	SLD 11	0.03359	-0.06624	-0.091	-0.0083	-0.0059	-0.0578
4	575	710	-830	SLD 12	0.03359	-0.06624	-0.091	-0.0083	-0.0059	-0.0578
4	575	710	-830	SLD 13	0.01583	0.01988	-0.08918	0.0025	-0.0028	0.0173
4	575	710	-830	SLD 14	0.01583	0.01988	-0.08918	0.0025	-0.0028	0.0173
4	575	710	-830	SLD 15	0.01583	-0.01988	-0.08918	-0.0025	-0.0028	-0.0173
4	575	710	-830	SLD 16	0.01583	-0.01988	-0.08918	-0.0025	-0.0028	-0.0173
4	575	710	-830	SLV 1	0.10641	0.05105	-0.09845	0.0064	-0.0186	0.0446
4	575	710	-830	SLV 2	0.10641	0.05105	-0.09845	0.0064	-0.0186	0.0446
4	575	710	-830	SLV 3	0.10641	-0.05105	-0.09845	-0.0064	-0.0186	-0.0446
4	575	710	-830	SLV 4	0.10641	-0.05105	-0.09845	-0.0064	-0.0186	-0.0446
4	575	710	-830	SLV 5	0.06075	0.17015	-0.09378	0.0214	-0.0106	0.1485
4	575	710	-830	SLV 6	0.06075	0.17015	-0.09378	0.0214	-0.0106	0.1485
4	575	710	-830	SLV 7	0.06075	-0.17015	-0.09378	-0.0214	-0.0106	-0.1485
4	575	710	-830	SLV 8	0.06075	-0.17015	-0.09378	-0.0214	-0.0106	-0.1485
4	575	710	-830	SLV 9	0.02162	0.17015	-0.08978	0.0214	-0.0038	0.1485
4	575	710	-830	SLV 10	0.02162	0.17015	-0.08978	0.0214	-0.0038	0.1485
4	575	710	-830	SLV 11	0.02162	-0.17015	-0.08978	-0.0214	-0.0038	-0.1485
4	575	710	-830	SLV 12	0.02162	-0.17015	-0.08978	-0.0214	-0.0038	-0.1485
4	575	710	-830	SLV 13	-0.024	0.05105	-0.08511	0.0064	0.0042	0.0445
4	575	710	-830	SLV 14	-0.024	0.05105	-0.08511	0.0064	0.0042	0.0445
4	575	710	-830	SLV 15	-0.024	-0.05105	-0.08511	-0.0064	0.0042	-0.0445
4	575	710	-830	SLV 16	-0.024	-0.05105	-0.08511	-0.0064	0.0042	-0.0445
4	575	710	-830	SLV FO 1	0.10641	0.05105	-0.09845	0.0064	-0.0186	0.0446
4	575	710	-830	SLV FO 2	0.10641	0.05105	-0.09845	0.0064	-0.0186	0.0446
4	575	710	-830	SLV FO 3	0.10641	-0.05105	-0.09845	-0.0064	-0.0186	-0.0446
4	575	710	-830	SLV FO 4	0.10641	-0.05105	-0.09845	-0.0064	-0.0186	-0.0446
4	575	710	-830	SLV FO 5	0.06075	0.17015	-0.09378	0.0214	-0.0106	0.1485
4	575	710	-830	SLV FO 6	0.06075	0.17015	-0.09378	0.0214	-0.0106	0.1485
4	575	710	-830	SLV FO 7	0.06075	-0.17015	-0.09378	-0.0214	-0.0106	-0.1485
4	575	710	-830	SLV FO 8	0.06075	-0.17015	-0.09378	-0.0214	-0.0106	-0.1485
4	575	710	-830	SLV FO 9	0.02162	0.17015	-0.08978	0.0214	-0.0038	0.1485
4	575	710	-830	SLV FO 10	0.02162	0.17015	-0.08978	0.0214	-0.0038	0.1485
4	575	710	-830	SLV FO 11	0.02162	-0.17015	-0.08978	-0.0214	-0.0038	-0.1485
4	575	710	-830	SLV FO 12	0.02162	-0.17015	-0.08978	-0.0214	-0.0038	-0.1485
4	575	710	-830	SLV FO 13	-0.024	0.05105	-0.08511	0.0064	0.0042	0.0445
4	575	710	-830	SLV FO 14	-0.024	0.05105	-0.08511	0.0064	0.0042	0.0445
4	575	710	-830	SLV FO 15	-0.024	-0.05105	-0.08511	-0.0064	0.0042	-0.0445
4	575	710	-830	SLV FO 16	-0.024	-0.05105	-0.08511	-0.0064	0.0042	-0.0445
5	2045	710	-830	SLU 1	-0.03198	0	-0.07904	0	0.0056	0
5	2045	710	-830	SLU 2	0.04427	-0.02974	-0.04576	-0.0039	-0.0077	-0.0105
5	2045	710	-830	SLU 3	0.07588	-0.02975	-0.02666	-0.0039	-0.0133	-0.0105
5	2045	710	-830	SLU 4	0.02071	0	-0.0472	0	-0.0036	0
5	2045	710	-830	SLU 5	0.06645	-0.01786	-0.02724	-0.0023	-0.0116	-0.0063
5	2045	710	-830	SLU 6	0.02082	-0.02974	-0.05592	-0.0039	-0.0036	-0.0105
5	2045	710	-830	SLU 7	0.05242	-0.02975	-0.03682	-0.0039	-0.0092	-0.0105

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
5	2045	710	-830	SLU 8	-0.00276	0	-0.05737	0	0.0005	0
5	2045	710	-830	SLU 9	0.04299	-0.01785	-0.0374	-0.0023	-0.0075	-0.0063
5	2045	710	-830	SLU 10	-0.07889	0	-0.09937	0	0.0138	0
5	2045	710	-830	SLU 11	-0.03314	-0.01784	-0.0794	-0.0023	0.0058	-0.0063
5	2045	710	-830	SLU 12	-0.0473	0	-0.08027	0	0.0083	0
5	2045	710	-830	SLU 13	-0.00154	-0.01785	-0.0603	-0.0023	0.0003	-0.0063
5	2045	710	-830	SLU 14	-0.05377	0	-0.08855	0	0.0094	0
5	2045	710	-830	SLU 15	0.02249	-0.02974	-0.05527	-0.0039	-0.0039	-0.0105
5	2045	710	-830	SLU 16	0.05409	-0.02975	-0.03617	-0.0039	-0.0095	-0.0105
5	2045	710	-830	SLU 17	-0.00108	0	-0.05671	0	0.0002	0
5	2045	710	-830	SLU 18	0.04466	-0.01785	-0.03675	-0.0023	-0.0078	-0.0063
5	2045	710	-830	SLU 19	-0.00097	-0.02974	-0.06543	-0.0039	0.0002	-0.0105
5	2045	710	-830	SLU 20	0.03063	-0.02975	-0.04633	-0.0039	-0.0054	-0.0105
5	2045	710	-830	SLU 21	-0.02455	0	-0.06688	0	0.0043	0
5	2045	710	-830	SLU 22	0.0212	-0.01785	-0.04691	-0.0023	-0.0037	-0.0063
5	2045	710	-830	SLU 23	-0.10068	0	-0.10888	0	0.0176	0
5	2045	710	-830	SLU 24	-0.05492	-0.01784	-0.08891	-0.0023	0.0096	-0.0063
5	2045	710	-830	SLU 25	-0.06909	0	-0.08978	0	0.0121	0
5	2045	710	-830	SLU 26	-0.02333	-0.01784	-0.0698	-0.0023	0.0041	-0.0063
5	2045	710	-830	SLU 27	-0.04158	0	-0.10276	0	0.0073	0
5	2045	710	-830	SLU 28	0.03468	-0.02974	-0.06947	-0.0039	-0.0061	-0.0105
5	2045	710	-830	SLU 29	0.06628	-0.02975	-0.05037	-0.0039	-0.0116	-0.0105
5	2045	710	-830	SLU 30	0.01111	0	-0.07092	0	-0.0019	0
5	2045	710	-830	SLU 31	0.05685	-0.01786	-0.05095	-0.0023	-0.0099	-0.0063
5	2045	710	-830	SLU 32	0.01122	-0.02974	-0.07963	-0.0039	-0.002	-0.0105
5	2045	710	-830	SLU 33	0.04282	-0.02975	-0.06053	-0.0039	-0.0075	-0.0105
5	2045	710	-830	SLU 34	-0.01235	0	-0.08108	0	0.0022	0
5	2045	710	-830	SLU 35	0.03339	-0.01785	-0.06111	-0.0023	-0.0058	-0.0063
5	2045	710	-830	SLU 36	-0.08849	0	-0.12308	0	0.0155	0
5	2045	710	-830	SLU 37	-0.04273	-0.01784	-0.10311	-0.0023	0.0075	-0.0063
5	2045	710	-830	SLU 38	-0.0569	0	-0.10398	0	0.0099	0
5	2045	710	-830	SLU 39	-0.01114	-0.01785	-0.08401	-0.0023	0.0019	-0.0063
5	2045	710	-830	SLU 40	-0.06336	0	-0.11226	0	0.0111	0
5	2045	710	-830	SLU 41	0.01289	-0.02974	-0.07898	-0.0039	-0.0023	-0.0105
5	2045	710	-830	SLU 42	0.04449	-0.02975	-0.05988	-0.0039	-0.0078	-0.0105
5	2045	710	-830	SLU 43	-0.01068	0	-0.08043	0	0.0019	0
5	2045	710	-830	SLU 44	0.03506	-0.01785	-0.06046	-0.0023	-0.0061	-0.0063
5	2045	710	-830	SLU 45	-0.01056	-0.02973	-0.08914	-0.0039	0.0018	-0.0105
5	2045	710	-830	SLU 46	0.02103	-0.02975	-0.07004	-0.0039	-0.0037	-0.0105
5	2045	710	-830	SLU 47	-0.03415	0	-0.09059	0	0.006	0
5	2045	710	-830	SLU 48	0.01161	-0.01785	-0.07062	-0.0023	-0.002	-0.0063
5	2045	710	-830	SLU 49	-0.11027	0	-0.13259	0	0.0193	0
5	2045	710	-830	SLU 50	-0.06452	-0.01784	-0.11262	-0.0023	0.0113	-0.0063
5	2045	710	-830	SLU 51	-0.07867	0	-0.11349	0	0.0138	0
5	2045	710	-830	SLU 52	-0.03292	-0.01784	-0.09352	-0.0023	0.0058	-0.0063
5	2045	710	-830	SLE RA 1	-0.04651	0	-0.08538	0	0.0081	0
5	2045	710	-830	SLE RA 2	0.00433	-0.01982	-0.06319	-0.0026	-0.0008	-0.007
5	2045	710	-830	SLE RA 3	0.0254	-0.01983	-0.05046	-0.0026	-0.0044	-0.007
5	2045	710	-830	SLE RA 4	-0.01139	0	-0.06416	0	0.002	0
5	2045	710	-830	SLE RA 5	0.01911	-0.0119	-0.05084	-0.0016	-0.0033	-0.0042
5	2045	710	-830	SLE RA 6	-0.0113	-0.01982	-0.06997	-0.0026	0.002	-0.007
5	2045	710	-830	SLE RA 7	0.00976	-0.01983	-0.05723	-0.0026	-0.0017	-0.007
5	2045	710	-830	SLE RA 8	-0.02703	0	-0.07093	0	0.0047	0
5	2045	710	-830	SLE RA 9	0.00347	-0.0119	-0.05762	-0.0016	-0.0006	-0.0042
5	2045	710	-830	SLE RA 10	-0.07778	0	-0.09893	0	0.0136	0
5	2045	710	-830	SLE RA 11	-0.04728	-0.01189	-0.08562	-0.0016	0.0083	-0.0042
5	2045	710	-830	SLE RA 12	-0.05671	0	-0.0862	0	0.0099	0
5	2045	710	-830	SLE RA 13	-0.02621	-0.0119	-0.07288	-0.0016	0.0046	-0.0042
5	2045	710	-830	SLE FR 1	-0.04651	0	-0.08538	0	0.0081	0
5	2045	710	-830	SLE FR 2	-0.03634	-0.00396	-0.08094	-0.0005	0.0064	-0.0014
5	2045	710	-830	SLE FR 3	-0.03948	0	-0.08114	0	0.0069	0
5	2045	710	-830	SLE FR 4	-0.05276	0	-0.08809	0	0.0092	0
5	2045	710	-830	SLE QP 1	-0.04651	0	-0.08538	0	0.0081	0
5	2045	710	-830	SLD 1	-0.00619	0.01962	-0.08284	0.0026	0.0011	0.0099
5	2045	710	-830	SLD 2	-0.00619	0.01962	-0.08284	0.0026	0.0011	0.0099
5	2045	710	-830	SLD 3	-0.00619	-0.01962	-0.08284	-0.0026	0.0011	-0.0099
5	2045	710	-830	SLD 4	-0.00619	-0.01962	-0.08284	-0.0026	0.0011	-0.0099
5	2045	710	-830	SLD 5	-0.03442	0.06542	-0.08462	0.0085	0.006	0.0331
5	2045	710	-830	SLD 6	-0.03442	0.06542	-0.08462	0.0085	0.006	0.0331
5	2045	710	-830	SLD 7	-0.03442	-0.06542	-0.08462	-0.0085	0.006	-0.0331
5	2045	710	-830	SLD 8	-0.03442	-0.06542	-0.08462	-0.0085	0.006	-0.0331
5	2045	710	-830	SLD 9	-0.05862	0.06542	-0.08615	0.0085	0.0102	0.0331
5	2045	710	-830	SLD 10	-0.05862	0.06542	-0.08615	0.0085	0.0102	0.0331
5	2045	710	-830	SLD 11	-0.05862	-0.06542	-0.08615	-0.0085	0.0102	-0.0331
5	2045	710	-830	SLD 12	-0.05862	-0.06542	-0.08615	-0.0085	0.0102	-0.0331
5	2045	710	-830	SLD 13	-0.08684	0.01962	-0.08793	0.0026	0.0152	0.0099
5	2045	710	-830	SLD 14	-0.08684	0.01962	-0.08793	0.0026	0.0152	0.0099
5	2045	710	-830	SLD 15	-0.08684	-0.01962	-0.08793	-0.0026	0.0152	-0.0099
5	2045	710	-830	SLD 16	-0.08684	-0.01962	-0.08793	-0.0026	0.0152	-0.0099
5	2045	710	-830	SLV 1	0.05707	0.05041	-0.07885	0.0066	-0.01	0.0255
5	2045	710	-830	SLV 2	0.05707	0.05041	-0.07885	0.0066	-0.01	0.0255
5	2045	710	-830	SLV 3	0.05707	-0.05041	-0.07885	-0.0066	-0.01	-0.0255
5	2045	710	-830	SLV 4	0.05707	-0.05041	-0.07885	-0.0066	-0.01	-0.0255
5	2045	710	-830	SLV 5	-0.01545	0.16806	-0.08342	0.0219	0.0027	0.0849
5	2045	710	-830	SLV 6	-0.01545	0.16806	-0.08342	0.0219	0.0027	0.0849
5	2045	710	-830	SLV 7	-0.01545	-0.16806	-0.08342	-0.0219	0.0027	-0.0849
5	2045	710	-830	SLV 8	-0.01545	-0.16806	-0.08342	-0.0219	0.0027	-0.0849
5	2045	710	-830	SLV 9	-0.0776	0.16806	-0.08735	0.0219	0.0136	0.0849
5	2045	710	-830	SLV 10	-0.0776	0.16806	-0.08735	0.0219	0.0136	0.0849
5	2045	710	-830	SLV 11	-0.0776	-0.16806	-0.08735	-0.0219	0.0136	-0.0849
5	2045	710	-830	SLV 12	-0.0776	-0.16806	-0.08735	-0.0219	0.0136	-0.0849
5	2045	710	-830	SLV 13	-0.15011	0.05042	-0.09192	0.0066	0.0262	0.0255
5	2045	710	-830	SLV 14	-0.15011	0.05042	-0.09192	0.0066	0.0262	0.0255
5	2045	710	-830	SLV 15	-0.15011	-0.05042	-0.09192	-0.0066	0.0262	-0.0255
5	2045	710	-830	SLV 16	-0.15011	-0.05042	-0.09192	-0.0066	0.0262	-0.0255
5	2045	710	-830	SLV FO 1	0.05707	0.05041	-0.07885	0.0066	-0.01	0.0255
5	2045	710	-830	SLV FO 2	0.05707	0.05041	-0.07885	0.0066	-0.01	0.0255
5	2045	710	-830	SLV FO 3	0.05707	-0.05041	-0.07885	-0.0066	-0.01	-0.0255
5	2045	710	-830	SLV FO 4	0.05707	-0.05041	-0.07885	-0.0066	-0.01	-0.0255
5	2045	710	-830	SLV FO 5	-0.01545	0.16806	-0.08342	0.0219	0.0027	0.0849

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
5	2045	710	-830	SLV FO 6	-0.01545	0.16806	-0.08342	0.0219	0.0027	0.0849
5	2045	710	-830	SLV FO 7	-0.01545	-0.16806	-0.08342	-0.0219	0.0027	-0.0849
5	2045	710	-830	SLV FO 8	-0.01545	-0.16806	-0.08342	-0.0219	0.0027	-0.0849
5	2045	710	-830	SLV FO 9	-0.0776	0.16806	-0.08735	0.0219	0.0136	0.0849
5	2045	710	-830	SLV FO 10	-0.0776	0.16806	-0.08735	0.0219	0.0136	0.0849
5	2045	710	-830	SLV FO 11	-0.0776	-0.16806	-0.08735	-0.0219	0.0136	-0.0849
5	2045	710	-830	SLV FO 12	-0.0776	-0.16806	-0.08735	-0.0219	0.0136	-0.0849
5	2045	710	-830	SLV FO 13	-0.15011	0.05042	-0.09192	0.0066	0.0262	0.0255
5	2045	710	-830	SLV FO 14	-0.15011	0.05042	-0.09192	0.0066	0.0262	0.0255
5	2045	710	-830	SLV FO 15	-0.15011	-0.05042	-0.09192	-0.0066	0.0262	-0.0255
5	2045	710	-830	SLV FO 16	-0.15011	-0.05042	-0.09192	-0.0066	0.0262	-0.0255
6	575	1210	-830	SLU 1	0.02667	0	-0.0801	0	-0.0047	0
6	575	1210	-830	SLU 2	-0.0115	-0.02363	-0.05926	-0.003	0.002	-0.0175
6	575	1210	-830	SLU 3	-0.04533	-0.02363	-0.04624	-0.003	0.0079	-0.0175
6	575	1210	-830	SLU 4	-0.02971	0	-0.0584	0	0.0052	0
6	575	1210	-830	SLU 5	-0.05261	-0.01417	-0.0459	-0.0018	0.0092	-0.0105
6	575	1210	-830	SLU 6	-0.00036	-0.02364	-0.06555	-0.003	0.0001	-0.0175
6	575	1210	-830	SLU 7	-0.03419	-0.02363	-0.05253	-0.003	0.006	-0.0175
6	575	1210	-830	SLU 8	-0.01856	0	-0.0647	0	0.0032	0
6	575	1210	-830	SLU 9	-0.04147	-0.01417	-0.05219	-0.0018	0.0072	-0.0105
6	575	1210	-830	SLU 10	0.04896	0	-0.09269	0	-0.0086	0
6	575	1210	-830	SLU 11	0.02606	-0.01419	-0.08018	-0.0018	-0.0046	-0.0105
6	575	1210	-830	SLU 12	0.01513	0	-0.07967	0	-0.0026	0
6	575	1210	-830	SLU 13	-0.00777	-0.01418	-0.06716	-0.0018	0.0014	-0.0105
6	575	1210	-830	SLU 14	0.037	0	-0.08607	0	-0.0065	0
6	575	1210	-830	SLU 15	-0.00117	-0.02364	-0.06522	-0.003	0.0002	-0.0175
6	575	1210	-830	SLU 16	-0.035	-0.02363	-0.0522	-0.003	0.0061	-0.0175
6	575	1210	-830	SLU 17	-0.01937	0	-0.06437	0	0.0034	0
6	575	1210	-830	SLU 18	-0.04228	-0.01417	-0.05186	-0.0018	0.0074	-0.0105
6	575	1210	-830	SLU 19	0.00998	-0.02364	-0.07152	-0.003	-0.0017	-0.0175
6	575	1210	-830	SLU 20	-0.02385	-0.02363	-0.0585	-0.003	0.0042	-0.0175
6	575	1210	-830	SLU 21	-0.00823	0	-0.07066	0	0.0014	0
6	575	1210	-830	SLU 22	-0.03114	-0.01417	-0.05816	-0.0018	0.0054	-0.0105
6	575	1210	-830	SLU 23	0.05929	0	-0.09865	0	-0.0104	0
6	575	1210	-830	SLU 24	0.03639	-0.01419	-0.08615	-0.0018	-0.0064	-0.0105
6	575	1210	-830	SLU 25	0.02547	0	-0.08564	0	-0.0045	0
6	575	1210	-830	SLU 26	0.00256	-0.01418	-0.07313	-0.0018	-0.0004	-0.0105
6	575	1210	-830	SLU 27	0.03467	0	-0.10413	0	-0.0061	0
6	575	1210	-830	SLU 28	-0.0035	-0.02363	-0.08329	-0.003	0.0006	-0.0175
6	575	1210	-830	SLU 29	-0.03733	-0.02363	-0.07027	-0.003	0.0065	-0.0175
6	575	1210	-830	SLU 30	-0.02171	0	-0.08243	0	0.0038	0
6	575	1210	-830	SLU 31	-0.04461	-0.01417	-0.06993	-0.0018	0.0078	-0.0105
6	575	1210	-830	SLU 32	0.00764	-0.02364	-0.08958	-0.003	-0.0013	-0.0175
6	575	1210	-830	SLU 33	-0.02619	-0.02363	-0.07656	-0.003	0.0046	-0.0175
6	575	1210	-830	SLU 34	-0.01056	0	-0.08873	0	0.0018	0
6	575	1210	-830	SLU 35	-0.03347	-0.01417	-0.07622	-0.0018	0.0058	-0.0105
6	575	1210	-830	SLU 36	0.05696	0	-0.11672	0	-0.01	0
6	575	1210	-830	SLU 37	0.03406	-0.01419	-0.10421	-0.0018	-0.006	-0.0105
6	575	1210	-830	SLU 38	0.02314	0	-0.1037	0	-0.004	0
6	575	1210	-830	SLU 39	0.00023	-0.01418	-0.09119	-0.0018	0	-0.0105
6	575	1210	-830	SLU 40	0.045	0	-0.11009	0	-0.0079	0
6	575	1210	-830	SLU 41	0.00683	-0.02364	-0.08925	-0.003	-0.0012	-0.0175
6	575	1210	-830	SLU 42	-0.027	-0.02363	-0.07623	-0.003	0.0047	-0.0175
6	575	1210	-830	SLU 43	-0.01137	0	-0.0884	0	0.002	0
6	575	1210	-830	SLU 44	-0.03428	-0.01417	-0.07589	-0.0018	0.006	-0.0105
6	575	1210	-830	SLU 45	0.01798	-0.02364	-0.09555	-0.003	-0.0031	-0.0176
6	575	1210	-830	SLU 46	-0.01585	-0.02363	-0.08253	-0.003	0.0028	-0.0175
6	575	1210	-830	SLU 47	-0.00023	0	-0.09469	0	0	0
6	575	1210	-830	SLU 48	-0.02313	-0.01417	-0.08219	-0.0018	0.004	-0.0105
6	575	1210	-830	SLU 49	0.06729	0	-0.12268	0	-0.0118	0
6	575	1210	-830	SLU 50	0.04439	-0.01419	-0.11018	-0.0018	-0.0078	-0.0105
6	575	1210	-830	SLU 51	0.03347	0	-0.10967	0	-0.0059	0
6	575	1210	-830	SLU 52	0.01057	-0.01418	-0.09716	-0.0018	-0.0018	-0.0105
6	575	1210	-830	SLE RA 1	0.03356	0	-0.08408	0	-0.0059	0
6	575	1210	-830	SLE RA 2	0.00811	-0.01576	-0.07018	-0.002	-0.0014	-0.0117
6	575	1210	-830	SLE RA 3	-0.01444	-0.01575	-0.0615	-0.002	0.0025	-0.0117
6	575	1210	-830	SLE RA 4	-0.00402	0	-0.06961	0	0.0007	0
6	575	1210	-830	SLE RA 5	-0.01929	-0.00945	-0.06127	-0.0012	0.0034	-0.007
6	575	1210	-830	SLE RA 6	0.01554	-0.01576	-0.07438	-0.002	-0.0027	-0.0117
6	575	1210	-830	SLE RA 7	-0.00701	-0.01575	-0.0657	-0.002	0.0012	-0.0117
6	575	1210	-830	SLE RA 8	0.00341	0	-0.07381	0	-0.0006	0
6	575	1210	-830	SLE RA 9	-0.01187	-0.00945	-0.06547	-0.0012	0.0021	-0.007
6	575	1210	-830	SLE RA 10	0.04842	0	-0.09247	0	-0.0085	0
6	575	1210	-830	SLE RA 11	0.03315	-0.00946	-0.08413	-0.0012	-0.0058	-0.007
6	575	1210	-830	SLE RA 12	0.02587	0	-0.08379	0	-0.0045	0
6	575	1210	-830	SLE RA 13	0.0106	-0.00946	-0.07545	-0.0012	-0.0019	-0.007
6	575	1210	-830	SLE FR 1	0.03356	0	-0.08408	0	-0.0059	0
6	575	1210	-830	SLE FR 2	0.02847	-0.00315	-0.0813	-0.0004	-0.005	-0.0023
6	575	1210	-830	SLE FR 3	0.02604	0	-0.08118	0	-0.0046	0
6	575	1210	-830	SLE FR 4	0.03653	0	-0.08576	0	-0.0064	0
6	575	1210	-830	SLE QP 1	0.03356	0	-0.08408	0	-0.0059	0
6	575	1210	-830	SLD 1	0.05983	0.01986	-0.08665	0.0025	-0.0105	0.0173
6	575	1210	-830	SLD 2	0.05983	0.01986	-0.08665	0.0025	-0.0105	0.0173
6	575	1210	-830	SLD 3	0.05283	-0.01986	-0.08629	-0.0025	-0.0092	-0.0173
6	575	1210	-830	SLD 4	0.05283	-0.01986	-0.08629	-0.0025	-0.0092	-0.0173
6	575	1210	-830	SLD 5	0.05205	0.06622	-0.08539	0.0083	-0.0091	0.0577
6	575	1210	-830	SLD 6	0.05205	0.06622	-0.08539	0.0083	-0.0091	0.0577
6	575	1210	-830	SLD 7	0.02874	-0.0662	-0.0842	-0.0083	-0.005	-0.0578
6	575	1210	-830	SLD 8	0.02874	-0.0662	-0.0842	-0.0083	-0.005	-0.0578
6	575	1210	-830	SLD 9	0.03838	0.06622	-0.08395	0.0083	-0.0067	0.0577
6	575	1210	-830	SLD 10	0.03838	0.06622	-0.08395	0.0083	-0.0067	0.0577
6	575	1210	-830	SLD 11	0.01508	-0.0662	-0.08277	-0.0083	-0.0026	-0.0578
6	575	1210	-830	SLD 12	0.01508	-0.0662	-0.08277	-0.0083	-0.0026	-0.0578
6	575	1210	-830	SLD 13	0.01429	0.01987	-0.08186	0.0025	-0.0025	0.0173
6	575	1210	-830	SLD 14	0.01429	0.01987	-0.08186	0.0025	-0.0025	0.0173
6	575	1210	-830	SLD 15	0.0073	-0.01986	-0.08151	-0.0025	-0.0013	-0.0173
6	575	1210	-830	SLD 16	0.0073	-0.01986	-0.08151	-0.0025	-0.0013	-0.0173
6	575	1210	-830	SLV 1	0.10103	0.05103	-0.09068	0.0064	-0.0177	0.0445
6	575	1210	-830	SLV 2	0.10103	0.05103	-0.09068	0.0064	-0.0177	0.0445
6	575	1210	-830	SLV 3	0.08307	-0.05102	-0.08977	-0.0064	-0.0145	-0.0445
6	575	1210	-830	SLV 4	0.08307	-0.05102	-0.08977	-0.0064	-0.0145	-0.0445
6	575	1210	-830	SLV 5	0.08105	0.1701	-0.08744	0.0214	-0.0142	0.1483
6	575	1210	-830	SLV 6	0.08105	0.1701	-0.08744	0.0214	-0.0142	0.1483

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
6	575	1210	-830	SLV 7	0.02118	-0.17005	-0.0844	-0.0214	-0.0037	-0.1484
6	575	1210	-830	SLV 8	0.02118	-0.17005	-0.0844	-0.0214	-0.0037	-0.1484
6	575	1210	-830	SLV 9	0.04595	0.1701	-0.08375	0.0214	-0.008	0.1483
6	575	1210	-830	SLV 10	0.04595	0.1701	-0.08375	0.0214	-0.008	0.1483
6	575	1210	-830	SLV 11	-0.01392	-0.17005	-0.08072	-0.0214	0.0024	-0.1484
6	575	1210	-830	SLV 12	-0.01392	-0.17005	-0.08072	-0.0214	0.0024	-0.1484
6	575	1210	-830	SLV 13	-0.01595	0.05104	-0.07839	0.0064	0.0028	0.0445
6	575	1210	-830	SLV 14	-0.01595	0.05104	-0.07839	0.0064	0.0028	0.0445
6	575	1210	-830	SLV 15	-0.03391	-0.05102	-0.07748	-0.0064	0.0059	-0.0445
6	575	1210	-830	SLV 16	-0.03391	-0.05102	-0.07748	-0.0064	0.0059	-0.0445
6	575	1210	-830	SLV FO 1	0.10103	0.05103	-0.09068	0.0064	-0.0177	0.0445
6	575	1210	-830	SLV FO 2	0.10103	0.05103	-0.09068	0.0064	-0.0177	0.0445
6	575	1210	-830	SLV FO 3	0.08307	-0.05102	-0.08977	-0.0064	-0.0145	-0.0445
6	575	1210	-830	SLV FO 4	0.08307	-0.05102	-0.08977	-0.0064	-0.0145	-0.0445
6	575	1210	-830	SLV FO 5	0.08105	0.1701	-0.08744	0.0214	-0.0142	0.1483
6	575	1210	-830	SLV FO 6	0.08105	0.1701	-0.08744	0.0214	-0.0142	0.1483
6	575	1210	-830	SLV FO 7	0.02118	-0.17005	-0.0844	-0.0214	-0.0037	-0.1484
6	575	1210	-830	SLV FO 8	0.02118	-0.17005	-0.0844	-0.0214	-0.0037	-0.1484
6	575	1210	-830	SLV FO 9	0.04595	0.1701	-0.08375	0.0214	-0.008	0.1483
6	575	1210	-830	SLV FO 10	0.04595	0.1701	-0.08375	0.0214	-0.008	0.1483
6	575	1210	-830	SLV FO 11	-0.01392	-0.17005	-0.08072	-0.0214	0.0024	-0.1484
6	575	1210	-830	SLV FO 12	-0.01392	-0.17005	-0.08072	-0.0214	0.0024	-0.1484
6	575	1210	-830	SLV FO 13	-0.01595	0.05104	-0.07839	0.0064	0.0028	0.0445
6	575	1210	-830	SLV FO 14	-0.01595	0.05104	-0.07839	0.0064	0.0028	0.0445
6	575	1210	-830	SLV FO 15	-0.03391	-0.05102	-0.07748	-0.0064	0.0059	-0.0445
6	575	1210	-830	SLV FO 16	-0.03391	-0.05102	-0.07748	-0.0064	0.0059	-0.0445
7	2045	1210	-830	SLU 1	-0.02532	0	-0.07544	0	0.0044	0
7	2045	1210	-830	SLU 2	0.00015	-0.0297	-0.05973	-0.0039	0	-0.0105
7	2045	1210	-830	SLU 3	0.0056	-0.02971	-0.05092	-0.0039	-0.001	-0.0105
7	2045	1210	-830	SLU 4	-0.01624	0.00001	-0.06075	0	0.0028	0
7	2045	1210	-830	SLU 5	-0.00095	-0.01783	-0.05133	-0.0023	0.0002	-0.0063
7	2045	1210	-830	SLU 6	-0.00895	-0.0297	-0.06462	-0.0039	0.0016	-0.0105
7	2045	1210	-830	SLU 7	-0.00351	-0.02971	-0.05581	-0.0039	0.0006	-0.0105
7	2045	1210	-830	SLU 8	-0.02534	0.00001	-0.06564	0	0.0044	0
7	2045	1210	-830	SLU 9	-0.01006	-0.01782	-0.05621	-0.0023	0.0018	-0.0063
7	2045	1210	-830	SLU 10	-0.04354	0	-0.08522	0	0.0076	0
7	2045	1210	-830	SLU 11	-0.02825	-0.01782	-0.07579	-0.0023	0.0049	-0.0063
7	2045	1210	-830	SLU 12	-0.03808	0	-0.07641	0	0.0067	0
7	2045	1210	-830	SLU 13	-0.0228	-0.01782	-0.06698	-0.0023	0.004	-0.0063
7	2045	1210	-830	SLU 14	-0.03371	0	-0.08001	0	0.0059	0
7	2045	1210	-830	SLU 15	-0.00824	-0.0297	-0.0643	-0.0039	0.0014	-0.0105
7	2045	1210	-830	SLU 16	-0.00279	-0.02971	-0.05549	-0.0039	0.0005	-0.0105
7	2045	1210	-830	SLU 17	-0.02462	0.00001	-0.06532	0	0.0043	0
7	2045	1210	-830	SLU 18	-0.00934	-0.01782	-0.0559	-0.0023	0.0016	-0.0063
7	2045	1210	-830	SLU 19	-0.01734	-0.0297	-0.06919	-0.0039	0.003	-0.0105
7	2045	1210	-830	SLU 20	-0.01189	-0.02971	-0.06038	-0.0039	0.0021	-0.0105
7	2045	1210	-830	SLU 21	-0.03373	0	-0.07021	0	0.0059	0
7	2045	1210	-830	SLU 22	-0.01845	-0.01783	-0.06079	-0.0023	0.0032	-0.0063
7	2045	1210	-830	SLU 23	-0.05193	0.00001	-0.08979	0	0.0091	0
7	2045	1210	-830	SLU 24	-0.03664	-0.01782	-0.08036	-0.0023	0.0064	-0.0063
7	2045	1210	-830	SLU 25	-0.04647	0	-0.08098	0	0.0081	0
7	2045	1210	-830	SLU 26	-0.03118	-0.01782	-0.07155	-0.0023	0.0055	-0.0063
7	2045	1210	-830	SLU 27	-0.03292	0	-0.09807	0	0.0058	0
7	2045	1210	-830	SLU 28	-0.00744	-0.0297	-0.08236	-0.0039	0.0013	-0.0105
7	2045	1210	-830	SLU 29	-0.002	-0.02971	-0.07355	-0.0039	0.0003	-0.0105
7	2045	1210	-830	SLU 30	-0.02383	0.00001	-0.08339	0	0.0042	0
7	2045	1210	-830	SLU 31	-0.00855	-0.01783	-0.07396	-0.0023	0.0015	-0.0063
7	2045	1210	-830	SLU 32	-0.01655	-0.0297	-0.08725	-0.0039	0.0029	-0.0105
7	2045	1210	-830	SLU 33	-0.0111	-0.02971	-0.07844	-0.0039	0.0019	-0.0105
7	2045	1210	-830	SLU 34	-0.03294	0.00001	-0.08828	0	0.0058	0
7	2045	1210	-830	SLU 35	-0.01765	-0.01782	-0.07885	-0.0023	0.0031	-0.0063
7	2045	1210	-830	SLU 36	-0.05113	0.00001	-0.10785	0	0.0089	0
7	2045	1210	-830	SLU 37	-0.03584	-0.01782	-0.09843	-0.0023	0.0063	-0.0063
7	2045	1210	-830	SLU 38	-0.04567	0	-0.09904	0	0.008	0
7	2045	1210	-830	SLU 39	-0.03039	-0.01782	-0.08961	-0.0023	0.0053	-0.0063
7	2045	1210	-830	SLU 40	-0.04131	0	-0.10265	0	0.0072	0
7	2045	1210	-830	SLU 41	-0.01583	-0.0297	-0.08693	-0.0039	0.0028	-0.0105
7	2045	1210	-830	SLU 42	-0.01038	-0.02971	-0.07812	-0.0039	0.0018	-0.0105
7	2045	1210	-830	SLU 43	-0.03222	0.00001	-0.08796	0	0.0056	0
7	2045	1210	-830	SLU 44	-0.01694	-0.01782	-0.07853	-0.0023	0.003	-0.0063
7	2045	1210	-830	SLU 45	-0.02493	-0.0297	-0.09182	-0.0039	0.0044	-0.0105
7	2045	1210	-830	SLU 46	-0.01949	-0.02971	-0.08301	-0.0039	0.0034	-0.0105
7	2045	1210	-830	SLU 47	-0.04132	0	-0.09285	0	0.0072	0
7	2045	1210	-830	SLU 48	-0.02604	-0.01782	-0.08342	-0.0023	0.0046	-0.0063
7	2045	1210	-830	SLU 49	-0.05952	0.00001	-0.11243	0	0.0104	0
7	2045	1210	-830	SLU 50	-0.04423	-0.01782	-0.103	-0.0023	0.0077	-0.0063
7	2045	1210	-830	SLU 51	-0.05407	0	-0.10361	0	0.0095	0
7	2045	1210	-830	SLU 52	-0.03878	-0.01782	-0.09418	-0.0023	0.0068	-0.0063
7	2045	1210	-830	SLE RA 1	-0.03091	0	-0.07849	0	0.0054	0
7	2045	1210	-830	SLE RA 2	-0.01393	-0.0198	-0.06801	-0.0026	0.0024	-0.007
7	2045	1210	-830	SLE RA 3	-0.0103	-0.0198	-0.06214	-0.0026	0.0018	-0.007
7	2045	1210	-830	SLE RA 4	-0.02485	0	-0.0687	0	0.0043	0
7	2045	1210	-830	SLE RA 5	-0.01467	-0.01188	-0.06241	-0.0016	0.0026	-0.0042
7	2045	1210	-830	SLE RA 6	-0.02	-0.0198	-0.07127	-0.0026	0.0035	-0.007
7	2045	1210	-830	SLE RA 7	-0.01637	-0.0198	-0.0654	-0.0026	0.0029	-0.007
7	2045	1210	-830	SLE RA 8	-0.03092	0	-0.07196	0	0.0054	0
7	2045	1210	-830	SLE RA 9	-0.02074	-0.01188	-0.06567	-0.0016	0.0036	-0.0042
7	2045	1210	-830	SLE RA 10	-0.04306	0	-0.08501	0	0.0075	0
7	2045	1210	-830	SLE RA 11	-0.03287	-0.01188	-0.07872	-0.0016	0.0057	-0.0042
7	2045	1210	-830	SLE RA 12	-0.03942	0	-0.07913	0	0.0069	0
7	2045	1210	-830	SLE RA 13	-0.02923	-0.01188	-0.07285	-0.0016	0.0051	-0.0042
7	2045	1210	-830	SLE FR 1	-0.03091	0	-0.07849	0	0.0054	0
7	2045	1210	-830	SLE FR 2	-0.02752	-0.00396	-0.07639	-0.0005	0.0048	-0.0014
7	2045	1210	-830	SLE FR 3	-0.0297	0	-0.07653	0	0.0052	0
7	2045	1210	-830	SLE FR 4	-0.03334	0	-0.07979	0	0.0058	0
7	2045	1210	-830	SLE QP 1	-0.03091	0	-0.07849	0	0.0054	0
7	2045	1210	-830	SLD 1	0.01278	0.01965	-0.07559	0.0026	-0.0022	0.0099
7	2045	1210	-830	SLD 2	0.01278	0.01965	-0.07559	0.0026	-0.0022	0.0099
7	2045	1210	-830	SLD 3	-0.00035	-0.01961	-0.07656	-0.0026	0.0001	-0.0099
7	2045	1210	-830	SLD 4	-0.00035	-0.01961	-0.07656	-0.0026	0.0001	-0.0099

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
7	2045	1210	-830	SLD 5	0.00212	0.06548	-0.07616	0.0085	-0.0004	0.0332
7	2045	1210	-830	SLD 6	0.00212	0.06548	-0.07616	0.0085	-0.0004	0.0332
7	2045	1210	-830	SLD 7	-0.04165	-0.06535	-0.07937	-0.0085	0.0073	-0.033
7	2045	1210	-830	SLD 8	-0.04165	-0.06535	-0.07937	-0.0085	0.0073	-0.033
7	2045	1210	-830	SLD 9	-0.02016	0.06548	-0.07761	0.0085	0.0035	0.0332
7	2045	1210	-830	SLD 10	-0.02016	0.06548	-0.07761	0.0085	0.0035	0.0332
7	2045	1210	-830	SLD 11	-0.06392	-0.06535	-0.08082	-0.0085	0.0112	-0.033
7	2045	1210	-830	SLD 12	-0.06392	-0.06535	-0.08082	-0.0085	0.0112	-0.033
7	2045	1210	-830	SLD 13	-0.06147	0.01964	-0.08042	0.0026	0.0107	0.0099
7	2045	1210	-830	SLD 14	-0.06147	0.01964	-0.08042	0.0026	0.0107	0.0099
7	2045	1210	-830	SLD 15	-0.07459	-0.0196	-0.08139	-0.0026	0.013	-0.0099
7	2045	1210	-830	SLD 16	-0.07459	-0.0196	-0.08139	-0.0026	0.013	-0.0099
7	2045	1210	-830	SLV 1	0.08132	0.05047	-0.07104	0.0066	-0.0142	0.0256
7	2045	1210	-830	SLV 2	0.08132	0.05047	-0.07104	0.0066	-0.0142	0.0256
7	2045	1210	-830	SLV 3	0.04759	-0.05037	-0.07352	-0.0066	-0.0083	-0.0254
7	2045	1210	-830	SLV 4	0.04759	-0.05037	-0.07352	-0.0066	-0.0083	-0.0254
7	2045	1210	-830	SLV 5	0.05394	0.16821	-0.07249	0.0219	-0.0094	0.0852
7	2045	1210	-830	SLV 6	0.05394	0.16821	-0.07249	0.0219	-0.0094	0.0852
7	2045	1210	-830	SLV 7	-0.05851	-0.16789	-0.08076	-0.0219	0.0102	-0.0848
7	2045	1210	-830	SLV 8	-0.05851	-0.16789	-0.08076	-0.0219	0.0102	-0.0848
7	2045	1210	-830	SLV 9	-0.00328	0.16821	-0.07622	0.0219	0.0006	0.0852
7	2045	1210	-830	SLV 10	-0.00328	0.16821	-0.07622	0.0219	0.0006	0.0852
7	2045	1210	-830	SLV 11	-0.11573	-0.16789	-0.08449	-0.0219	0.0202	-0.0848
7	2045	1210	-830	SLV 12	-0.11573	-0.16789	-0.08449	-0.0219	0.0202	-0.0848
7	2045	1210	-830	SLV 13	-0.10941	0.05046	-0.08346	0.0066	0.0191	0.0255
7	2045	1210	-830	SLV 14	-0.10941	0.05046	-0.08346	0.0066	0.0191	0.0255
7	2045	1210	-830	SLV 15	-0.14313	-0.05036	-0.08594	-0.0066	0.025	-0.0254
7	2045	1210	-830	SLV 16	-0.14313	-0.05036	-0.08594	-0.0066	0.025	-0.0254
7	2045	1210	-830	SLV FO 1	0.08132	0.05047	-0.07104	0.0066	-0.0142	0.0256
7	2045	1210	-830	SLV FO 2	0.08132	0.05047	-0.07104	0.0066	-0.0142	0.0256
7	2045	1210	-830	SLV FO 3	0.04759	-0.05037	-0.07352	-0.0066	-0.0083	-0.0254
7	2045	1210	-830	SLV FO 4	0.04759	-0.05037	-0.07352	-0.0066	-0.0083	-0.0254
7	2045	1210	-830	SLV FO 5	0.05394	0.16821	-0.07249	0.0219	-0.0094	0.0852
7	2045	1210	-830	SLV FO 6	0.05394	0.16821	-0.07249	0.0219	-0.0094	0.0852
7	2045	1210	-830	SLV FO 7	-0.05851	-0.16789	-0.08076	-0.0219	0.0102	-0.0848
7	2045	1210	-830	SLV FO 8	-0.05851	-0.16789	-0.08076	-0.0219	0.0102	-0.0848
7	2045	1210	-830	SLV FO 9	-0.00328	0.16821	-0.07622	0.0219	0.0006	0.0852
7	2045	1210	-830	SLV FO 10	-0.00328	0.16821	-0.07622	0.0219	0.0006	0.0852
7	2045	1210	-830	SLV FO 11	-0.11573	-0.16789	-0.08449	-0.0219	0.0202	-0.0848
7	2045	1210	-830	SLV FO 12	-0.11573	-0.16789	-0.08449	-0.0219	0.0202	-0.0848
7	2045	1210	-830	SLV FO 13	-0.10941	0.05046	-0.08346	0.0066	0.0191	0.0255
7	2045	1210	-830	SLV FO 14	-0.10941	0.05046	-0.08346	0.0066	0.0191	0.0255
7	2045	1210	-830	SLV FO 15	-0.14313	-0.05036	-0.08594	-0.0066	0.025	-0.0254
7	2045	1210	-830	SLV FO 16	-0.14313	-0.05036	-0.08594	-0.0066	0.025	-0.0254
8	575	210	-742.5	SLU 1	0.01955	0	-0.08016	0	-0.0047	0
8	575	210	-742.5	SLU 2	-0.0055	-0.01917	-0.05922	-0.003	0.0013	-0.0175
8	575	210	-742.5	SLU 3	-0.03029	-0.01916	-0.04619	-0.003	0.0072	-0.0175
8	575	210	-742.5	SLU 4	-0.02178	0	-0.05844	0	0.0052	0
8	575	210	-742.5	SLU 5	-0.0368	-0.0115	-0.04588	-0.0018	0.0088	-0.0105
8	575	210	-742.5	SLU 6	0.00267	-0.01917	-0.06553	-0.003	-0.0006	-0.0175
8	575	210	-742.5	SLU 7	-0.02212	-0.01916	-0.05249	-0.003	0.0053	-0.0175
8	575	210	-742.5	SLU 8	-0.01361	0	-0.06474	0	0.0032	0
8	575	210	-742.5	SLU 9	-0.02863	-0.0115	-0.05218	-0.0018	0.0068	-0.0105
8	575	210	-742.5	SLU 10	0.03589	0	-0.09277	0	-0.0086	0
8	575	210	-742.5	SLU 11	0.02086	-0.01151	-0.0802	-0.0018	-0.005	-0.0105
8	575	210	-742.5	SLU 12	0.01109	0	-0.07973	0	-0.0026	0
8	575	210	-742.5	SLU 13	-0.00393	-0.0115	-0.06717	-0.0018	0.0009	-0.0105
8	575	210	-742.5	SLU 14	0.02713	0	-0.08614	0	-0.0065	0
8	575	210	-742.5	SLU 15	0.00208	-0.01917	-0.0652	-0.003	-0.0005	-0.0175
8	575	210	-742.5	SLU 16	-0.02271	-0.01916	-0.05216	-0.003	0.0054	-0.0175
8	575	210	-742.5	SLU 17	-0.0142	0	-0.06441	0	0.0034	0
8	575	210	-742.5	SLU 18	-0.02923	-0.0115	-0.05185	-0.0018	0.007	-0.0105
8	575	210	-742.5	SLU 19	0.01025	-0.01917	-0.0715	-0.003	-0.0024	-0.0175
8	575	210	-742.5	SLU 20	-0.01454	-0.01916	-0.05846	-0.003	0.0035	-0.0175
8	575	210	-742.5	SLU 21	-0.00603	0	-0.07072	0	0.0014	0
8	575	210	-742.5	SLU 22	-0.02106	-0.0115	-0.05815	-0.0018	0.005	-0.0105
8	575	210	-742.5	SLU 23	0.04346	0	-0.09874	0	-0.0104	0
8	575	210	-742.5	SLU 24	0.02843	-0.01151	-0.08618	-0.0018	-0.0068	-0.0105
8	575	210	-742.5	SLU 25	0.01867	0	-0.08571	0	-0.0045	0
8	575	210	-742.5	SLU 26	0.00364	-0.0115	-0.07314	-0.0018	-0.0009	-0.0105
8	575	210	-742.5	SLU 27	0.02542	0	-0.10421	0	-0.0061	0
8	575	210	-742.5	SLU 28	0.00037	-0.01917	-0.08327	-0.003	-0.0001	-0.0175
8	575	210	-742.5	SLU 29	-0.02443	-0.01916	-0.07024	-0.003	0.0058	-0.0175
8	575	210	-742.5	SLU 30	-0.01591	0	-0.08249	0	0.0038	0
8	575	210	-742.5	SLU 31	-0.03094	-0.0115	-0.06993	-0.0018	0.0074	-0.0105
8	575	210	-742.5	SLU 32	0.00853	-0.01917	-0.08957	-0.003	-0.002	-0.0175
8	575	210	-742.5	SLU 33	-0.01626	-0.01916	-0.07654	-0.003	0.0039	-0.0175
8	575	210	-742.5	SLU 34	-0.00774	0	-0.08879	0	0.0018	0
8	575	210	-742.5	SLU 35	-0.02277	-0.0115	-0.07623	-0.0018	0.0054	-0.0105
8	575	210	-742.5	SLU 36	0.04175	0	-0.11682	0	-0.01	0
8	575	210	-742.5	SLU 37	0.02672	-0.01151	-0.10425	-0.0018	-0.0064	-0.0105
8	575	210	-742.5	SLU 38	0.01696	0	-0.10378	0	-0.004	0
8	575	210	-742.5	SLU 39	0.00193	-0.0115	-0.09122	-0.0018	-0.0005	-0.0105
8	575	210	-742.5	SLU 40	0.03299	0	-0.11019	0	-0.0079	0
8	575	210	-742.5	SLU 41	0.00794	-0.01917	-0.08925	-0.003	-0.0019	-0.0175
8	575	210	-742.5	SLU 42	-0.01685	-0.01916	-0.07621	-0.003	0.004	-0.0175
8	575	210	-742.5	SLU 43	-0.00834	0	-0.08846	0	0.002	0
8	575	210	-742.5	SLU 44	-0.02336	-0.0115	-0.0759	-0.0018	0.0056	-0.0105
8	575	210	-742.5	SLU 45	0.01611	-0.01918	-0.09555	-0.003	-0.0038	-0.0175
8	575	210	-742.5	SLU 46	-0.00868	-0.01917	-0.08251	-0.003	0.0021	-0.0175
8	575	210	-742.5	SLU 47	-0.00017	0	-0.09476	0	0	0
8	575	210	-742.5	SLU 48	-0.01519	-0.0115	-0.0822	-0.0018	0.0036	-0.0105
8	575	210	-742.5	SLU 49	0.04933	0	-0.12279	0	-0.0118	0
8	575	210	-742.5	SLU 50	0.0343	-0.01151	-0.11023	-0.0018	-0.0082	-0.0105
8	575	210	-742.5	SLU 51	0.02453	0	-0.10976	0	-0.0059	0
8	575	210	-742.5	SLU 52	0.0095	-0.0115	-0.09719	-0.0018	-0.0023	-0.0105
8	575	210	-742.5	SLE RA 1	0.0246	0	-0.08415	0	-0.0059	0
8	575	210	-742.5	SLE RA 2	0.0079	-0.01278	-0.07019	-0.002	-0.0019	-0.0117
8	575	210	-742.5	SLE RA 3	-0.00863	-0.01278	-0.0615	-0.002	0.0021	-0.0117
8	575	210	-742.5	SLE RA 4	-0.00295	0	-0.06966	0	0.0007	0
8	575	210	-742.5	SLE RA 5	-0.01297	-0.00767	-0.06129	-0.0012	0.0031	-0.007
8	575	210	-742.5	SLE RA 6	0.01334	-0.01279	-0.07439	-0.002	-0.0032	-0.0117
8	575	210	-742.5	SLE RA 7	-0.00318	-0.01278	-0.0657	-0.002	0.0008	-0.0117

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
8	575	210	-742.5	SLE RA 8	0.0025	0	-0.07387	0	-0.0006	0
8	575	210	-742.5	SLE RA 9	-0.00752	-0.00767	-0.06549	-0.0012	0.0018	-0.007
8	575	210	-742.5	SLE RA 10	0.03549	0	-0.09255	0	-0.0085	0
8	575	210	-742.5	SLE RA 11	0.02547	-0.00767	-0.08417	-0.0012	-0.0061	-0.007
8	575	210	-742.5	SLE RA 12	0.01896	0	-0.08386	0	-0.0045	0
8	575	210	-742.5	SLE RA 13	0.00894	-0.00767	-0.07548	-0.0012	-0.0021	-0.007
8	575	210	-742.5	SLE FR 1	0.0246	0	-0.08415	0	-0.0059	0
8	575	210	-742.5	SLE FR 2	0.02126	-0.00256	-0.08135	-0.0004	-0.0051	-0.0023
8	575	210	-742.5	SLE FR 3	0.01909	0	-0.08125	0	-0.0046	0
8	575	210	-742.5	SLE FR 4	0.02678	0	-0.08583	0	-0.0064	0
8	575	210	-742.5	SLE QP 1	0.0246	0	-0.08415	0	-0.0059	0
8	575	210	-742.5	SLD 1	0.03873	0.01604	-0.08636	0.0025	-0.0092	0.0173
8	575	210	-742.5	SLD 2	0.03873	0.01604	-0.08636	0.0025	-0.0092	0.0173
8	575	210	-742.5	SLD 3	0.04386	-0.01605	-0.08672	-0.0025	-0.0105	-0.0173
8	575	210	-742.5	SLD 4	0.04386	-0.01605	-0.08672	-0.0025	-0.0105	-0.0173
8	575	210	-742.5	SLD 5	0.02107	0.05347	-0.08427	0.0083	-0.005	0.0578
8	575	210	-742.5	SLD 6	0.02107	0.05347	-0.08427	0.0083	-0.005	0.0578
8	575	210	-742.5	SLD 7	0.03815	-0.05349	-0.08546	-0.0083	-0.0091	-0.0577
8	575	210	-742.5	SLD 8	0.03815	-0.05349	-0.08546	-0.0083	-0.0091	-0.0577
8	575	210	-742.5	SLD 9	0.01105	0.05347	-0.08284	0.0083	-0.0026	0.0578
8	575	210	-742.5	SLD 10	0.01105	0.05347	-0.08284	0.0083	-0.0026	0.0578
8	575	210	-742.5	SLD 11	0.02814	-0.05349	-0.08402	-0.0083	-0.0067	-0.0577
8	575	210	-742.5	SLD 12	0.02814	-0.05349	-0.08402	-0.0083	-0.0067	-0.0577
8	575	210	-742.5	SLD 13	0.00535	0.01604	-0.08157	0.0025	-0.0013	0.0173
8	575	210	-742.5	SLD 14	0.00535	0.01604	-0.08157	0.0025	-0.0013	0.0173
8	575	210	-742.5	SLD 15	0.01047	-0.01605	-0.08193	-0.0025	-0.0025	-0.0173
8	575	210	-742.5	SLD 16	0.01047	-0.01605	-0.08193	-0.0025	-0.0025	-0.0173
8	575	210	-742.5	SLV 1	0.0609	0.04121	-0.08984	0.0064	-0.0145	0.0445
8	575	210	-742.5	SLV 2	0.0609	0.04121	-0.08984	0.0064	-0.0145	0.0445
8	575	210	-742.5	SLV 3	0.07406	-0.04122	-0.09075	-0.0064	-0.0177	-0.0445
8	575	210	-742.5	SLV 4	0.07406	-0.04122	-0.09075	-0.0064	-0.0177	-0.0445
8	575	210	-742.5	SLV 5	0.01552	0.13735	-0.08447	0.0214	-0.0037	0.1484
8	575	210	-742.5	SLV 6	0.01552	0.13735	-0.08447	0.0214	-0.0037	0.1484
8	575	210	-742.5	SLV 7	0.05941	-0.1374	-0.08751	-0.0214	-0.0142	-0.1483
8	575	210	-742.5	SLV 8	0.05941	-0.1374	-0.08751	-0.0214	-0.0142	-0.1483
8	575	210	-742.5	SLV 9	-0.0102	0.13735	-0.08078	0.0214	0.0024	0.1484
8	575	210	-742.5	SLV 10	-0.0102	0.13735	-0.08078	0.0214	0.0024	0.1484
8	575	210	-742.5	SLV 11	0.03368	-0.1374	-0.08382	-0.0214	-0.008	-0.1483
8	575	210	-742.5	SLV 12	0.03368	-0.1374	-0.08382	-0.0214	-0.008	-0.1483
8	575	210	-742.5	SLV 13	-0.02486	0.04121	-0.07754	0.0064	0.0059	0.0445
8	575	210	-742.5	SLV 14	-0.02486	0.04121	-0.07754	0.0064	0.0059	0.0445
8	575	210	-742.5	SLV 15	-0.01169	-0.04122	-0.07845	-0.0064	0.0028	-0.0445
8	575	210	-742.5	SLV 16	-0.01169	-0.04122	-0.07845	-0.0064	0.0028	-0.0445
8	575	210	-742.5	SLV FO 1	0.0609	0.04121	-0.08984	0.0064	-0.0145	0.0445
8	575	210	-742.5	SLV FO 2	0.0609	0.04121	-0.08984	0.0064	-0.0145	0.0445
8	575	210	-742.5	SLV FO 3	0.07406	-0.04122	-0.09075	-0.0064	-0.0177	-0.0445
8	575	210	-742.5	SLV FO 4	0.07406	-0.04122	-0.09075	-0.0064	-0.0177	-0.0445
8	575	210	-742.5	SLV FO 5	0.01552	0.13735	-0.08447	0.0214	-0.0037	0.1484
8	575	210	-742.5	SLV FO 6	0.01552	0.13735	-0.08447	0.0214	-0.0037	0.1484
8	575	210	-742.5	SLV FO 7	0.05941	-0.1374	-0.08751	-0.0214	-0.0142	-0.1483
8	575	210	-742.5	SLV FO 8	0.05941	-0.1374	-0.08751	-0.0214	-0.0142	-0.1483
8	575	210	-742.5	SLV FO 9	-0.0102	0.13735	-0.08078	0.0214	0.0024	0.1484
8	575	210	-742.5	SLV FO 10	-0.0102	0.13735	-0.08078	0.0214	0.0024	0.1484
8	575	210	-742.5	SLV FO 11	0.03368	-0.1374	-0.08382	-0.0214	-0.008	-0.1483
8	575	210	-742.5	SLV FO 12	0.03368	-0.1374	-0.08382	-0.0214	-0.008	-0.1483
8	575	210	-742.5	SLV FO 13	-0.02486	0.04121	-0.07754	0.0064	0.0059	0.0445
8	575	210	-742.5	SLV FO 14	-0.02486	0.04121	-0.07754	0.0064	0.0059	0.0445
8	575	210	-742.5	SLV FO 15	-0.01169	-0.04122	-0.07845	-0.0064	0.0028	-0.0445
8	575	210	-742.5	SLV FO 16	-0.01169	-0.04122	-0.07845	-0.0064	0.0028	-0.0445
9	2045	210	-742.5	SLU 1	-0.01856	0	-0.0755	0	0.0044	0
9	2045	210	-742.5	SLU 2	0.00581	-0.03374	-0.05919	-0.0063	-0.0014	-0.018
9	2045	210	-742.5	SLU 3	0.00982	-0.03374	-0.05037	-0.0063	-0.0023	-0.018
9	2045	210	-742.5	SLU 4	-0.0119	-0.00001	-0.06079	0	0.0028	0
9	2045	210	-742.5	SLU 5	0.00273	-0.02024	-0.05101	-0.0038	-0.0007	-0.0108
9	2045	210	-742.5	SLU 6	-0.00087	-0.03373	-0.06409	-0.0063	0.0002	-0.018
9	2045	210	-742.5	SLU 7	0.00314	-0.03374	-0.05526	-0.0063	-0.0007	-0.018
9	2045	210	-742.5	SLU 8	-0.01858	0	-0.06569	0	0.0044	0
9	2045	210	-742.5	SLU 9	-0.00395	-0.02024	-0.0559	-0.0038	0.0009	-0.0108
9	2045	210	-742.5	SLU 10	-0.03192	0	-0.08529	0	0.0076	0
9	2045	210	-742.5	SLU 11	-0.0173	-0.02024	-0.07551	-0.0038	0.0041	-0.0108
9	2045	210	-742.5	SLU 12	-0.02791	0	-0.07647	0	0.0067	0
9	2045	210	-742.5	SLU 13	-0.01329	-0.02024	-0.06668	-0.0038	0.0032	-0.0108
9	2045	210	-742.5	SLU 14	-0.02471	0	-0.08008	0	0.0059	0
9	2045	210	-742.5	SLU 15	-0.00034	-0.03373	-0.06377	-0.0063	0.0001	-0.018
9	2045	210	-742.5	SLU 16	0.00367	-0.03374	-0.05495	-0.0063	-0.0009	-0.018
9	2045	210	-742.5	SLU 17	-0.01805	0	-0.06537	0	0.0043	0
9	2045	210	-742.5	SLU 18	-0.00342	-0.02024	-0.05559	-0.0038	0.0008	-0.0108
9	2045	210	-742.5	SLU 19	-0.00702	-0.03373	-0.06867	-0.0063	0.0017	-0.018
9	2045	210	-742.5	SLU 20	-0.00301	-0.03374	-0.05984	-0.0063	0.0007	-0.018
9	2045	210	-742.5	SLU 21	-0.02472	0	-0.07027	0	0.0059	0
9	2045	210	-742.5	SLU 22	-0.01009	-0.02024	-0.06048	-0.0038	0.0024	-0.0108
9	2045	210	-742.5	SLU 23	-0.03807	-0.00001	-0.08987	0	0.0091	0
9	2045	210	-742.5	SLU 24	-0.02345	-0.02024	-0.08009	-0.0038	0.0056	-0.0108
9	2045	210	-742.5	SLU 25	-0.03406	0	-0.08104	0	0.0081	0
9	2045	210	-742.5	SLU 26	-0.01944	-0.02024	-0.07126	-0.0038	0.0046	-0.0108
9	2045	210	-742.5	SLU 27	-0.02413	0	-0.09815	0	0.0058	0
9	2045	210	-742.5	SLU 28	0.00024	-0.03374	-0.08184	-0.0063	-0.0001	-0.018
9	2045	210	-742.5	SLU 29	0.00425	-0.03374	-0.07302	-0.0063	-0.001	-0.018
9	2045	210	-742.5	SLU 30	-0.01747	-0.00001	-0.08344	0	0.0042	0
9	2045	210	-742.5	SLU 31	-0.00284	-0.02024	-0.07366	-0.0038	0.0007	-0.0108
9	2045	210	-742.5	SLU 32	-0.00644	-0.03373	-0.08674	-0.0063	0.0015	-0.018
9	2045	210	-742.5	SLU 33	-0.00243	-0.03374	-0.07791	-0.0063	0.0006	-0.018
9	2045	210	-742.5	SLU 34	-0.02414	0	-0.08834	0	0.0058	0
9	2045	210	-742.5	SLU 35	-0.00951	-0.02024	-0.07855	-0.0038	0.0023	-0.0108
9	2045	210	-742.5	SLU 36	-0.03748	0	-0.10794	0	0.0089	0
9	2045	210	-742.5	SLU 37	-0.02287	-0.02024	-0.09816	-0.0038	0.0055	-0.0108
9	2045	210	-742.5	SLU 38	-0.03348	0	-0.09912	0	0.008	0
9	2045	210	-742.5	SLU 39	-0.01885	-0.02024	-0.08933	-0.0038	0.0045	-0.0108
9	2045	210	-742.5	SLU 40	-0.03028	0	-0.10273	0	0.0072	0
9	2045	210	-742.5	SLU 41	-0.00591	-0.03373	-0.08642	-0.0063	0.0014	-0.018

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
9	2045	210	-742.5	SLU 42	-0.0019	-0.03374	-0.0776	-0.0063	0.0005	-0.018
9	2045	210	-742.5	SLU 43	-0.02362	0	-0.08802	0	0.0056	0
9	2045	210	-742.5	SLU 44	-0.00899	-0.02024	-0.07824	-0.0038	0.0021	-0.0108
9	2045	210	-742.5	SLU 45	-0.01259	-0.03373	-0.09132	-0.0063	0.003	-0.018
9	2045	210	-742.5	SLU 46	-0.00858	-0.03374	-0.08249	-0.0063	0.002	-0.018
9	2045	210	-742.5	SLU 47	-0.03029	0	-0.09292	0	0.0072	0
9	2045	210	-742.5	SLU 48	-0.01566	-0.02024	-0.08313	-0.0038	0.0037	-0.0108
9	2045	210	-742.5	SLU 49	-0.04363	-0.00001	-0.11252	0	0.0104	0
9	2045	210	-742.5	SLU 50	-0.02902	-0.02024	-0.10274	-0.0038	0.0069	-0.0108
9	2045	210	-742.5	SLU 51	-0.03964	0	-0.1037	0	0.0095	0
9	2045	210	-742.5	SLU 52	-0.02501	-0.02024	-0.09391	-0.0038	0.006	-0.0108
9	2045	210	-742.5	SLE RA 1	-0.02266	0	-0.07855	0	0.0054	0
9	2045	210	-742.5	SLE RA 2	-0.00642	-0.02249	-0.06768	-0.0042	0.0015	-0.012
9	2045	210	-742.5	SLE RA 3	-0.00374	-0.02249	-0.0618	-0.0042	0.0009	-0.012
9	2045	210	-742.5	SLE RA 4	-0.01822	0	-0.06875	0	0.0043	0
9	2045	210	-742.5	SLE RA 5	-0.00847	-0.01349	-0.06222	-0.0025	0.002	-0.0072
9	2045	210	-742.5	SLE RA 6	-0.01087	-0.02249	-0.07095	-0.0042	0.0026	-0.012
9	2045	210	-742.5	SLE RA 7	-0.0082	-0.02249	-0.06506	-0.0042	0.002	-0.012
9	2045	210	-742.5	SLE RA 8	-0.02267	0	-0.07201	0	0.0054	0
9	2045	210	-742.5	SLE RA 9	-0.01292	-0.0135	-0.06549	-0.0025	0.0031	-0.0072
9	2045	210	-742.5	SLE RA 10	-0.03156	0	-0.08508	0	0.0075	0
9	2045	210	-742.5	SLE RA 11	-0.02182	-0.01349	-0.07856	-0.0025	0.0052	-0.0072
9	2045	210	-742.5	SLE RA 12	-0.0289	0	-0.0792	0	0.0069	0
9	2045	210	-742.5	SLE RA 13	-0.01915	-0.01349	-0.07267	-0.0025	0.0046	-0.0072
9	2045	210	-742.5	SLE FR 1	-0.02266	0	-0.07855	0	0.0054	0
9	2045	210	-742.5	SLE FR 2	-0.01941	-0.0045	-0.07638	-0.0008	0.0046	-0.0024
9	2045	210	-742.5	SLE FR 3	-0.02177	0	-0.07659	0	0.0052	0
9	2045	210	-742.5	SLE FR 4	-0.02444	0	-0.07986	0	0.0058	0
9	2045	210	-742.5	SLE QP 1	-0.02266	0	-0.07855	0	0.0054	0
9	2045	210	-742.5	SLD 1	-0.00026	0.0157	-0.07662	0.0026	0.0001	0.0099
9	2045	210	-742.5	SLD 2	-0.00026	0.0157	-0.07662	0.0026	0.0001	0.0099
9	2045	210	-742.5	SLD 3	0.00937	-0.01573	-0.07565	-0.0026	-0.0022	-0.0099
9	2045	210	-742.5	SLD 4	0.00937	-0.01573	-0.07565	-0.0026	-0.0022	-0.0099
9	2045	210	-742.5	SLD 5	-0.03053	0.05233	-0.07944	0.0085	0.0073	0.033
9	2045	210	-742.5	SLD 6	-0.03053	0.05233	-0.07944	0.0085	0.0073	0.033
9	2045	210	-742.5	SLD 7	0.00155	-0.05243	-0.07622	-0.0085	-0.0004	-0.0332
9	2045	210	-742.5	SLD 8	0.00155	-0.05243	-0.07622	-0.0085	-0.0004	-0.0332
9	2045	210	-742.5	SLD 9	-0.04686	0.05233	-0.08089	0.0085	0.0112	0.033
9	2045	210	-742.5	SLD 10	-0.04686	0.05233	-0.08089	0.0085	0.0112	0.033
9	2045	210	-742.5	SLD 11	-0.01478	-0.05243	-0.07767	-0.0085	0.0035	-0.0332
9	2045	210	-742.5	SLD 12	-0.01478	-0.05243	-0.07767	-0.0085	0.0035	-0.0332
9	2045	210	-742.5	SLD 13	-0.05468	0.0157	-0.08146	0.0026	0.013	0.0099
9	2045	210	-742.5	SLD 14	-0.05468	0.0157	-0.08146	0.0026	0.013	0.0099
9	2045	210	-742.5	SLD 15	-0.04506	-0.01573	-0.08049	-0.0026	0.0107	-0.0099
9	2045	210	-742.5	SLD 16	-0.04506	-0.01573	-0.08049	-0.0026	0.0107	-0.0099
9	2045	210	-742.5	SLV 1	0.03489	0.04033	-0.07358	0.0066	-0.0083	0.0254
9	2045	210	-742.5	SLV 2	0.03489	0.04033	-0.07358	0.0066	-0.0083	0.0254
9	2045	210	-742.5	SLV 3	0.05961	-0.04041	-0.07109	-0.0066	-0.0142	-0.0256
9	2045	210	-742.5	SLV 4	0.05961	-0.04041	-0.07109	-0.0066	-0.0142	-0.0256
9	2045	210	-742.5	SLV 5	-0.04289	0.13443	-0.08083	0.0219	0.0102	0.0848
9	2045	210	-742.5	SLV 6	-0.04289	0.13443	-0.08083	0.0219	0.0102	0.0848
9	2045	210	-742.5	SLV 7	0.03954	-0.13469	-0.07255	-0.0219	-0.0094	-0.0852
9	2045	210	-742.5	SLV 8	0.03954	-0.13469	-0.07255	-0.0219	-0.0094	-0.0852
9	2045	210	-742.5	SLV 9	-0.08483	0.13443	-0.08456	0.0219	0.0202	0.0848
9	2045	210	-742.5	SLV 10	-0.08483	0.13443	-0.08456	0.0219	0.0202	0.0848
9	2045	210	-742.5	SLV 11	-0.0024	-0.13469	-0.07628	-0.0219	0.0006	-0.0852
9	2045	210	-742.5	SLV 12	-0.0024	-0.13469	-0.07628	-0.0219	0.0006	-0.0852
9	2045	210	-742.5	SLV 13	-0.10492	0.04033	-0.08601	0.0066	0.025	0.0254
9	2045	210	-742.5	SLV 14	-0.10492	0.04033	-0.08601	0.0066	0.025	0.0254
9	2045	210	-742.5	SLV 15	-0.0802	-0.0404	-0.08353	-0.0066	0.0191	-0.0255
9	2045	210	-742.5	SLV 16	-0.0802	-0.0404	-0.08353	-0.0066	0.0191	-0.0255
9	2045	210	-742.5	SLV FO 1	0.03489	0.04033	-0.07358	0.0066	-0.0083	0.0254
9	2045	210	-742.5	SLV FO 2	0.03489	0.04033	-0.07358	0.0066	-0.0083	0.0254
9	2045	210	-742.5	SLV FO 3	0.05961	-0.04041	-0.07109	-0.0066	-0.0142	-0.0256
9	2045	210	-742.5	SLV FO 4	0.05961	-0.04041	-0.07109	-0.0066	-0.0142	-0.0256
9	2045	210	-742.5	SLV FO 5	-0.04289	0.13443	-0.08083	0.0219	0.0102	0.0848
9	2045	210	-742.5	SLV FO 6	-0.04289	0.13443	-0.08083	0.0219	0.0102	0.0848
9	2045	210	-742.5	SLV FO 7	0.03954	-0.13469	-0.07255	-0.0219	-0.0094	-0.0852
9	2045	210	-742.5	SLV FO 8	0.03954	-0.13469	-0.07255	-0.0219	-0.0094	-0.0852
9	2045	210	-742.5	SLV FO 9	-0.08483	0.13443	-0.08456	0.0219	0.0202	0.0848
9	2045	210	-742.5	SLV FO 10	-0.08483	0.13443	-0.08456	0.0219	0.0202	0.0848
9	2045	210	-742.5	SLV FO 11	-0.0024	-0.13469	-0.07628	-0.0219	0.0006	-0.0852
9	2045	210	-742.5	SLV FO 12	-0.0024	-0.13469	-0.07628	-0.0219	0.0006	-0.0852
9	2045	210	-742.5	SLV FO 13	-0.10492	0.04033	-0.08601	0.0066	0.025	0.0254
9	2045	210	-742.5	SLV FO 14	-0.10492	0.04033	-0.08601	0.0066	0.025	0.0254
9	2045	210	-742.5	SLV FO 15	-0.0802	-0.0404	-0.08353	-0.0066	0.0191	-0.0255
9	2045	210	-742.5	SLV FO 16	-0.0802	-0.0404	-0.08353	-0.0066	0.0191	-0.0255
10	575	710	-742.5	SLU 1	0.02147	0	-0.08413	0	-0.0051	0
10	575	710	-742.5	SLU 2	-0.02445	-0.0191	-0.04354	-0.003	0.0058	-0.0175
10	575	710	-742.5	SLU 3	-0.06206	-0.01909	-0.01885	-0.003	0.0148	-0.0175
10	575	710	-742.5	SLU 4	-0.04121	0	-0.04298	0	0.0098	0
10	575	710	-742.5	SLU 5	-0.06877	-0.01145	-0.01863	-0.0018	0.0164	-0.0105
10	575	710	-742.5	SLU 6	-0.01024	-0.0191	-0.05578	-0.003	0.0024	-0.0176
10	575	710	-742.5	SLU 7	-0.04785	-0.01909	-0.03109	-0.003	0.0114	-0.0175
10	575	710	-742.5	SLU 8	-0.02701	0	-0.05522	0	0.0064	0
10	575	710	-742.5	SLU 9	-0.05456	-0.01145	-0.03087	-0.0018	0.013	-0.0105
10	575	710	-742.5	SLU 10	0.04989	0	-0.1086	0	-0.0119	0
10	575	710	-742.5	SLU 11	0.02234	-0.01146	-0.08425	-0.0018	-0.0053	-0.0105
10	575	710	-742.5	SLU 12	0.01227	0	-0.08391	0	-0.0029	0
10	575	710	-742.5	SLU 13	-0.01528	-0.01146	-0.05956	-0.0018	0.0036	-0.0105
10	575	710	-742.5	SLU 14	0.03459	0	-0.09572	0	-0.0082	0
10	575	710	-742.5	SLU 15	-0.01133	-0.0191	-0.05514	-0.003	0.0027	-0.0176
10	575	710	-742.5	SLU 16	-0.04894	-0.01909	-0.03045	-0.003	0.0117	-0.0175
10	575	710	-742.5	SLU 17	-0.0281	0	-0.05458	0	0.0067	0
10	575	710	-742.5	SLU 18	-0.05565	-0.01145	-0.03022	-0.0018	0.0133	-0.0105
10	575	710	-742.5	SLU 19	0.00288	-0.0191	-0.06738	-0.003	-0.0007	-0.0176
10	575	710	-742.5	SLU 20	-0.03474	-0.01909	-0.04269	-0.003	0.0083	-0.0175
10	575	710	-742.5	SLU 21	-0.01389	0	-0.06681	0	0.0033	0
10	575	710	-742.5	SLU 22	-0.04144	-0.01145	-0.04246	-0.0018	0.0099	-0.0105
10	575	710	-742.5	SLU 23	0.06301	0	-0.1202	0	-0.015	0
10	575	710	-742.5	SLU 24	0.03546	-0.01146	-0.09585	-0.0018	-0.0085	-0.0105
10	575	710	-742.5	SLU 25	0.02539	0	-0.09551	0	-0.0061	0
10	575	710	-742.5	SLU 26	-0.00216	-0.01146	-0.07116	-0.0018	0.0005	-0.0105

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
10	575	710	-742.5	SLU 27	0.02791	0	-0.10937	0	-0.0067	0
10	575	710	-742.5	SLU 28	-0.01801	-0.0191	-0.06878	-0.003	0.0043	-0.0175
10	575	710	-742.5	SLU 29	-0.05562	-0.01909	-0.04409	-0.003	0.0133	-0.0175
10	575	710	-742.5	SLU 30	-0.03478	0	-0.06822	0	0.0083	0
10	575	710	-742.5	SLU 31	-0.06233	-0.01145	-0.04387	-0.0018	0.0149	-0.0105
10	575	710	-742.5	SLU 32	-0.0038	-0.0191	-0.08102	-0.003	0.0009	-0.0176
10	575	710	-742.5	SLU 33	-0.04141	-0.01909	-0.05633	-0.003	0.0099	-0.0175
10	575	710	-742.5	SLU 34	-0.02057	0	-0.08046	0	0.0049	0
10	575	710	-742.5	SLU 35	-0.04812	-0.01145	-0.0561	-0.0018	0.0115	-0.0105
10	575	710	-742.5	SLU 36	0.05633	0	-0.13384	0	-0.0134	0
10	575	710	-742.5	SLU 37	0.02878	-0.01146	-0.10949	-0.0018	-0.0069	-0.0105
10	575	710	-742.5	SLU 38	0.01871	0	-0.10915	0	-0.0045	0
10	575	710	-742.5	SLU 39	-0.00884	-0.01146	-0.0848	-0.0018	0.0021	-0.0105
10	575	710	-742.5	SLU 40	0.04103	0	-0.12096	0	-0.0098	0
10	575	710	-742.5	SLU 41	-0.00489	-0.0191	-0.08038	-0.003	0.0012	-0.0176
10	575	710	-742.5	SLU 42	-0.0425	-0.01909	-0.05569	-0.003	0.0101	-0.0175
10	575	710	-742.5	SLU 43	-0.02166	0	-0.07981	0	0.0052	0
10	575	710	-742.5	SLU 44	-0.04921	-0.01145	-0.05546	-0.0018	0.0117	-0.0105
10	575	710	-742.5	SLU 45	0.00932	-0.0191	-0.09261	-0.003	-0.0022	-0.0176
10	575	710	-742.5	SLU 46	-0.0283	-0.01909	-0.06793	-0.003	0.0067	-0.0175
10	575	710	-742.5	SLU 47	-0.00745	0	-0.09205	0	0.0018	0
10	575	710	-742.5	SLU 48	-0.035	-0.01145	-0.0677	-0.0018	0.0083	-0.0105
10	575	710	-742.5	SLU 49	0.06945	0	-0.14544	0	-0.0166	0
10	575	710	-742.5	SLU 50	0.0419	-0.01146	-0.12109	-0.0018	-0.01	-0.0105
10	575	710	-742.5	SLU 51	0.03184	0	-0.12075	0	-0.0076	0
10	575	710	-742.5	SLU 52	0.00428	-0.01146	-0.0964	-0.0018	-0.001	-0.0105
10	575	710	-742.5	SLE RA 1	0.03022	0	-0.09186	0	-0.0072	0
10	575	710	-742.5	SLE RA 2	-0.0004	-0.01273	-0.0648	-0.002	0.0001	-0.0117
10	575	710	-742.5	SLE RA 3	-0.02547	-0.01273	-0.04834	-0.002	0.0061	-0.0117
10	575	710	-742.5	SLE RA 4	-0.01158	0	-0.06443	0	0.0028	0
10	575	710	-742.5	SLE RA 5	-0.02995	-0.00764	-0.04819	-0.0012	0.0071	-0.007
10	575	710	-742.5	SLE RA 6	0.00908	-0.01274	-0.07296	-0.002	-0.0022	-0.0117
10	575	710	-742.5	SLE RA 7	-0.016	-0.01273	-0.0565	-0.002	0.0038	-0.0117
10	575	710	-742.5	SLE RA 8	-0.00211	0	-0.07258	0	0.0005	0
10	575	710	-742.5	SLE RA 9	-0.02047	-0.00764	-0.05635	-0.0012	0.0049	-0.007
10	575	710	-742.5	SLE RA 10	0.04916	0	-0.10818	0	-0.0117	0
10	575	710	-742.5	SLE RA 11	0.0308	-0.00764	-0.09194	-0.0012	-0.0073	-0.007
10	575	710	-742.5	SLE RA 12	0.02409	0	-0.09172	0	-0.0057	0
10	575	710	-742.5	SLE RA 13	0.00572	-0.00764	-0.07548	-0.0012	-0.0014	-0.007
10	575	710	-742.5	SLE FR 1	0.03022	0	-0.09186	0	-0.0072	0
10	575	710	-742.5	SLE FR 2	0.02409	-0.00255	-0.08645	-0.0004	-0.0057	-0.0023
10	575	710	-742.5	SLE FR 3	0.02186	0	-0.08637	0	-0.0052	0
10	575	710	-742.5	SLE FR 4	0.034	0	-0.09512	0	-0.0081	0
10	575	710	-742.5	SLE QP 1	0.03022	0	-0.09186	0	-0.0072	0
10	575	710	-742.5	SLD 1	0.04882	0.01605	-0.09446	0.0025	-0.0116	0.0173
10	575	710	-742.5	SLD 2	0.04882	0.01605	-0.09446	0.0025	-0.0116	0.0173
10	575	710	-742.5	SLD 3	0.04882	-0.01605	-0.09446	-0.0025	-0.0116	-0.0173
10	575	710	-742.5	SLD 4	0.04882	-0.01605	-0.09446	-0.0025	-0.0116	-0.0173
10	575	710	-742.5	SLD 5	0.03579	0.0535	-0.09264	0.0083	-0.0085	0.0578
10	575	710	-742.5	SLD 6	0.03579	0.0535	-0.09264	0.0083	-0.0085	0.0578
10	575	710	-742.5	SLD 7	0.03579	-0.0535	-0.09264	-0.0083	-0.0085	-0.0578
10	575	710	-742.5	SLD 8	0.03579	-0.0535	-0.09264	-0.0083	-0.0085	-0.0578
10	575	710	-742.5	SLD 9	0.02462	0.0535	-0.09108	0.0083	-0.0059	0.0578
10	575	710	-742.5	SLD 10	0.02462	0.0535	-0.09108	0.0083	-0.0059	0.0578
10	575	710	-742.5	SLD 11	0.02462	-0.0535	-0.09108	-0.0083	-0.0059	-0.0578
10	575	710	-742.5	SLD 12	0.02462	-0.0535	-0.09108	-0.0083	-0.0059	-0.0578
10	575	710	-742.5	SLD 13	0.0116	0.01605	-0.08926	0.0025	-0.0028	0.0173
10	575	710	-742.5	SLD 14	0.0116	0.01605	-0.08926	0.0025	-0.0028	0.0173
10	575	710	-742.5	SLD 15	0.0116	-0.01605	-0.08926	-0.0025	-0.0028	-0.0173
10	575	710	-742.5	SLD 16	0.0116	-0.01605	-0.08926	-0.0025	-0.0028	-0.0173
10	575	710	-742.5	SLV 1	0.07801	0.04123	-0.09853	0.0064	-0.0186	0.0446
10	575	710	-742.5	SLV 2	0.07801	0.04123	-0.09853	0.0064	-0.0186	0.0446
10	575	710	-742.5	SLV 3	0.07801	-0.04123	-0.09853	-0.0064	-0.0186	-0.0446
10	575	710	-742.5	SLV 4	0.07801	-0.04123	-0.09853	-0.0064	-0.0186	-0.0446
10	575	710	-742.5	SLV 5	0.04453	0.13743	-0.09386	0.0214	-0.0106	0.1485
10	575	710	-742.5	SLV 6	0.04453	0.13743	-0.09386	0.0214	-0.0106	0.1485
10	575	710	-742.5	SLV 7	0.04453	-0.13743	-0.09386	-0.0214	-0.0106	-0.1485
10	575	710	-742.5	SLV 8	0.04453	-0.13743	-0.09386	-0.0214	-0.0106	-0.1485
10	575	710	-742.5	SLV 9	0.01585	0.13744	-0.08986	0.0214	-0.0038	0.1485
10	575	710	-742.5	SLV 10	0.01585	0.13744	-0.08986	0.0214	-0.0038	0.1485
10	575	710	-742.5	SLV 11	0.01585	-0.13744	-0.08986	-0.0214	-0.0038	-0.1485
10	575	710	-742.5	SLV 12	0.01585	-0.13744	-0.08986	-0.0214	-0.0038	-0.1485
10	575	710	-742.5	SLV 13	-0.0176	0.04124	-0.08518	0.0064	0.0042	0.0445
10	575	710	-742.5	SLV 14	-0.0176	0.04124	-0.08518	0.0064	0.0042	0.0445
10	575	710	-742.5	SLV 15	-0.0176	-0.04124	-0.08518	-0.0064	0.0042	-0.0445
10	575	710	-742.5	SLV 16	-0.0176	-0.04124	-0.08518	-0.0064	0.0042	-0.0445
10	575	710	-742.5	SLV FO 1	0.07801	0.04123	-0.09853	0.0064	-0.0186	0.0446
10	575	710	-742.5	SLV FO 2	0.07801	0.04123	-0.09853	0.0064	-0.0186	0.0446
10	575	710	-742.5	SLV FO 3	0.07801	-0.04123	-0.09853	-0.0064	-0.0186	-0.0446
10	575	710	-742.5	SLV FO 4	0.07801	-0.04123	-0.09853	-0.0064	-0.0186	-0.0446
10	575	710	-742.5	SLV FO 5	0.04453	0.13743	-0.09386	0.0214	-0.0106	0.1485
10	575	710	-742.5	SLV FO 6	0.04453	0.13743	-0.09386	0.0214	-0.0106	0.1485
10	575	710	-742.5	SLV FO 7	0.04453	-0.13743	-0.09386	-0.0214	-0.0106	-0.1485
10	575	710	-742.5	SLV FO 8	0.04453	-0.13743	-0.09386	-0.0214	-0.0106	-0.1485
10	575	710	-742.5	SLV FO 9	0.01585	0.13744	-0.08986	0.0214	-0.0038	0.1485
10	575	710	-742.5	SLV FO 10	0.01585	0.13744	-0.08986	0.0214	-0.0038	0.1485
10	575	710	-742.5	SLV FO 11	0.01585	-0.13744	-0.08986	-0.0214	-0.0038	-0.1485
10	575	710	-742.5	SLV FO 12	0.01585	-0.13744	-0.08986	-0.0214	-0.0038	-0.1485
10	575	710	-742.5	SLV FO 13	-0.0176	0.04124	-0.08518	0.0064	0.0042	0.0445
10	575	710	-742.5	SLV FO 14	-0.0176	0.04124	-0.08518	0.0064	0.0042	0.0445
10	575	710	-742.5	SLV FO 15	-0.0176	-0.04124	-0.08518	-0.0064	0.0042	-0.0445
10	575	710	-742.5	SLV FO 16	-0.0176	-0.04124	-0.08518	-0.0064	0.0042	-0.0445
11	2045	710	-742.5	SLU 1	-0.02345	0	-0.07911	0	0.0056	0
11	2045	710	-742.5	SLU 2	0.03246	-0.02381	-0.04578	-0.0039	-0.0077	-0.0105
11	2045	710	-742.5	SLU 3	0.05563	-0.02382	-0.02666	-0.0039	-0.0133	-0.0105
11	2045	710	-742.5	SLU 4	0.01518	0	-0.04723	0	-0.0036	0
11	2045	710	-742.5	SLU 5	0.04871	-0.0143	-0.02724	-0.0023	-0.0116	-0.0063
11	2045	710	-742.5	SLU 6	0.01526	-0.02381	-0.05596	-0.0039	-0.0036	-0.0105
11	2045	710	-742.5	SLU 7	0.03843	-0.02382	-0.03683	-0.0039	-0.0092	-0.0105
11	2045	710	-742.5	SLU 8	-0.00202	0	-0.0574	0	0.0005	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
11	2045	710	-742.5	SLU 9	0.03151	-0.01429	-0.03741	-0.0023	-0.0075	-0.0063
11	2045	710	-742.5	SLU 10	-0.05783	0	-0.09946	0	0.0138	0
11	2045	710	-742.5	SLU 11	-0.02429	-0.01428	-0.07946	-0.0023	0.0058	-0.0063
11	2045	710	-742.5	SLU 12	-0.03467	0	-0.08033	0	0.0083	0
11	2045	710	-742.5	SLU 13	-0.00113	-0.01429	-0.06034	-0.0023	0.0003	-0.0063
11	2045	710	-742.5	SLU 14	-0.03942	0	-0.08863	0	0.0094	0
11	2045	710	-742.5	SLU 15	0.01649	-0.02381	-0.0553	-0.0039	-0.0039	-0.0105
11	2045	710	-742.5	SLU 16	0.03965	-0.02382	-0.03618	-0.0039	-0.0095	-0.0105
11	2045	710	-742.5	SLU 17	-0.00079	0	-0.05675	0	0.0002	0
11	2045	710	-742.5	SLU 18	0.03274	-0.01429	-0.03676	-0.0023	-0.0078	-0.0063
11	2045	710	-742.5	SLU 19	-0.00071	-0.02381	-0.06548	-0.0039	0.0002	-0.0105
11	2045	710	-742.5	SLU 20	0.02245	-0.02382	-0.04635	-0.0039	-0.0054	-0.0105
11	2045	710	-742.5	SLU 21	-0.01799	0	-0.06693	0	0.0043	0
11	2045	710	-742.5	SLU 22	0.01554	-0.01429	-0.04693	-0.0023	-0.0037	-0.0063
11	2045	710	-742.5	SLU 23	-0.0738	0	-0.10898	0	0.0176	0
11	2045	710	-742.5	SLU 24	-0.04026	-0.01428	-0.08898	-0.0023	0.0096	-0.0063
11	2045	710	-742.5	SLU 25	-0.05065	0	-0.08985	0	0.0121	0
11	2045	710	-742.5	SLU 26	-0.0171	-0.01429	-0.06986	-0.0023	0.0041	-0.0063
11	2045	710	-742.5	SLU 27	-0.03048	0	-0.10284	0	0.0073	0
11	2045	710	-742.5	SLU 28	0.02542	-0.02381	-0.06951	-0.0039	-0.0061	-0.0105
11	2045	710	-742.5	SLU 29	0.04859	-0.02382	-0.05039	-0.0039	-0.0116	-0.0105
11	2045	710	-742.5	SLU 30	0.00814	0	-0.07096	0	-0.0019	0
11	2045	710	-742.5	SLU 31	0.04167	-0.0143	-0.05097	-0.0023	-0.0099	-0.0063
11	2045	710	-742.5	SLU 32	0.00823	-0.02381	-0.07969	-0.0039	-0.002	-0.0105
11	2045	710	-742.5	SLU 33	0.03139	-0.02382	-0.06056	-0.0039	-0.0075	-0.0105
11	2045	710	-742.5	SLU 34	-0.00906	0	-0.08114	0	0.0022	0
11	2045	710	-742.5	SLU 35	0.02448	-0.01429	-0.06114	-0.0023	-0.0058	-0.0063
11	2045	710	-742.5	SLU 36	-0.06487	0	-0.12319	0	0.0155	0
11	2045	710	-742.5	SLU 37	-0.03133	-0.01428	-0.10319	-0.0023	0.0075	-0.0063
11	2045	710	-742.5	SLU 38	-0.04171	0	-0.10406	0	0.0099	0
11	2045	710	-742.5	SLU 39	-0.00817	-0.01429	-0.08407	-0.0023	0.0019	-0.0063
11	2045	710	-742.5	SLU 40	-0.04645	0	-0.11236	0	0.0111	0
11	2045	710	-742.5	SLU 41	0.00945	-0.02381	-0.07903	-0.0039	-0.0023	-0.0105
11	2045	710	-742.5	SLU 42	0.03262	-0.02382	-0.05991	-0.0039	-0.0078	-0.0105
11	2045	710	-742.5	SLU 43	-0.00783	0	-0.08048	0	0.0019	0
11	2045	710	-742.5	SLU 44	0.0257	-0.01429	-0.06049	-0.0023	-0.0061	-0.0063
11	2045	710	-742.5	SLU 45	-0.00774	-0.02381	-0.08921	-0.0039	0.0018	-0.0105
11	2045	710	-742.5	SLU 46	0.01542	-0.02382	-0.07008	-0.0039	-0.0037	-0.0105
11	2045	710	-742.5	SLU 47	-0.02503	0	-0.09066	0	0.006	0
11	2045	710	-742.5	SLU 48	0.00851	-0.01429	-0.07066	-0.0023	-0.002	-0.0063
11	2045	710	-742.5	SLU 49	-0.08084	0	-0.13271	0	0.0193	0
11	2045	710	-742.5	SLU 50	-0.0473	-0.01428	-0.11271	-0.0023	0.0113	-0.0063
11	2045	710	-742.5	SLU 51	-0.05767	0	-0.11358	0	0.0138	0
11	2045	710	-742.5	SLU 52	-0.02413	-0.01429	-0.09359	-0.0023	0.0058	-0.0063
11	2045	710	-742.5	SLE RA 1	-0.03409	0	-0.08545	0	0.0081	0
11	2045	710	-742.5	SLE RA 2	0.00317	-0.01587	-0.06324	-0.0026	-0.0008	-0.007
11	2045	710	-742.5	SLE RA 3	0.01862	-0.01588	-0.05049	-0.0026	-0.0044	-0.007
11	2045	710	-742.5	SLE RA 4	-0.00835	0	-0.0642	0	0.002	0
11	2045	710	-742.5	SLE RA 5	0.01401	-0.00953	-0.05087	-0.0016	-0.0033	-0.0042
11	2045	710	-742.5	SLE RA 6	-0.00829	-0.01587	-0.07002	-0.0026	0.002	-0.007
11	2045	710	-742.5	SLE RA 7	0.00715	-0.01588	-0.05727	-0.0026	-0.0017	-0.007
11	2045	710	-742.5	SLE RA 8	-0.01981	0	-0.07099	0	0.0047	0
11	2045	710	-742.5	SLE RA 9	0.00254	-0.00953	-0.05766	-0.0016	-0.0006	-0.0042
11	2045	710	-742.5	SLE RA 10	-0.05702	0	-0.09902	0	0.0136	0
11	2045	710	-742.5	SLE RA 11	-0.03466	-0.00952	-0.08569	-0.0016	0.0083	-0.0042
11	2045	710	-742.5	SLE RA 12	-0.04157	0	-0.08627	0	0.0099	0
11	2045	710	-742.5	SLE RA 13	-0.01922	-0.00952	-0.07294	-0.0016	0.0046	-0.0042
11	2045	710	-742.5	SLE FR 1	-0.03409	0	-0.08545	0	0.0081	0
11	2045	710	-742.5	SLE FR 2	-0.02664	-0.00317	-0.08101	-0.0005	0.0064	-0.0014
11	2045	710	-742.5	SLE FR 3	-0.02894	0	-0.0812	0	0.0069	0
11	2045	710	-742.5	SLE FR 4	-0.03868	0	-0.08817	0	0.0092	0
11	2045	710	-742.5	SLE QP 1	-0.03409	0	-0.08545	0	0.0081	0
11	2045	710	-742.5	SLD 1	-0.00454	0.01571	-0.08291	0.0026	0.0011	0.0099
11	2045	710	-742.5	SLD 2	-0.00454	0.01571	-0.08291	0.0026	0.0011	0.0099
11	2045	710	-742.5	SLD 3	-0.00454	-0.01571	-0.08291	-0.0026	0.0011	-0.0099
11	2045	710	-742.5	SLD 4	-0.00454	-0.01571	-0.08291	-0.0026	0.0011	-0.0099
11	2045	710	-742.5	SLD 5	-0.02523	0.05238	-0.08469	0.0085	0.006	0.0331
11	2045	710	-742.5	SLD 6	-0.02523	0.05238	-0.08469	0.0085	0.006	0.0331
11	2045	710	-742.5	SLD 7	-0.02523	-0.05238	-0.08469	-0.0085	0.006	-0.0331
11	2045	710	-742.5	SLD 8	-0.02523	-0.05238	-0.08469	-0.0085	0.006	-0.0331
11	2045	710	-742.5	SLD 9	-0.04297	0.05238	-0.08622	0.0085	0.0102	0.0331
11	2045	710	-742.5	SLD 10	-0.04297	0.05238	-0.08622	0.0085	0.0102	0.0331
11	2045	710	-742.5	SLD 11	-0.04297	-0.05238	-0.08622	-0.0085	0.0102	-0.0331
11	2045	710	-742.5	SLD 12	-0.04297	-0.05238	-0.08622	-0.0085	0.0102	-0.0331
11	2045	710	-742.5	SLD 13	-0.06366	0.01571	-0.088	0.0026	0.0152	0.0099
11	2045	710	-742.5	SLD 14	-0.06366	0.01571	-0.088	0.0026	0.0152	0.0099
11	2045	710	-742.5	SLD 15	-0.06366	-0.01571	-0.088	-0.0026	0.0152	-0.0099
11	2045	710	-742.5	SLD 16	-0.06366	-0.01571	-0.088	-0.0026	0.0152	-0.0099
11	2045	710	-742.5	SLV 1	0.04184	0.04036	-0.07891	0.0066	-0.01	0.0255
11	2045	710	-742.5	SLV 2	0.04184	0.04036	-0.07891	0.0066	-0.01	0.0255
11	2045	710	-742.5	SLV 3	0.04184	-0.04036	-0.07891	-0.0066	-0.01	-0.0255
11	2045	710	-742.5	SLV 4	0.04184	-0.04036	-0.07891	-0.0066	-0.01	-0.0255
11	2045	710	-742.5	SLV 5	-0.01132	0.13457	-0.08349	0.0219	0.0027	0.0849
11	2045	710	-742.5	SLV 6	-0.01132	0.13457	-0.08349	0.0219	0.0027	0.0849
11	2045	710	-742.5	SLV 7	-0.01132	-0.13457	-0.08349	-0.0219	0.0027	-0.0849
11	2045	710	-742.5	SLV 8	-0.01132	-0.13457	-0.08349	-0.0219	0.0027	-0.0849
11	2045	710	-742.5	SLV 9	-0.05689	0.13457	-0.08742	0.0219	0.0136	0.0849
11	2045	710	-742.5	SLV 10	-0.05689	0.13457	-0.08742	0.0219	0.0136	0.0849
11	2045	710	-742.5	SLV 11	-0.05689	-0.13457	-0.08742	-0.0219	0.0136	-0.0849
11	2045	710	-742.5	SLV 12	-0.05689	-0.13457	-0.08742	-0.0219	0.0136	-0.0849
11	2045	710	-742.5	SLV 13	-0.11004	0.04037	-0.092	0.0066	0.0262	0.0255
11	2045	710	-742.5	SLV 14	-0.11004	0.04037	-0.092	0.0066	0.0262	0.0255
11	2045	710	-742.5	SLV 15	-0.11004	-0.04037	-0.092	-0.0066	0.0262	-0.0255
11	2045	710	-742.5	SLV 16	-0.11004	-0.04037	-0.092	-0.0066	0.0262	-0.0255
11	2045	710	-742.5	SLV FO 1	0.04184	0.04036	-0.07891	0.0066	-0.01	0.0255
11	2045	710	-742.5	SLV FO 2	0.04184	0.04036	-0.07891	0.0066	-0.01	0.0255
11	2045	710	-742.5	SLV FO 3	0.04184	-0.04036	-0.07891	-0.0066	-0.01	-0.0255
11	2045	710	-742.5	SLV FO 4	0.04184	-0.04036	-0.07891	-0.0066	-0.01	-0.0255
11	2045	710	-742.5	SLV FO 5	-0.01132	0.13457	-0.08349	0.0219	0.0027	0.0849
11	2045	710	-742.5	SLV FO 6	-0.01132	0.13457	-0.08349	0.0219	0.0027	0.0849
11	2045	710	-742.5	SLV FO 7	-0.01132	-0.13457	-0.08349	-0.0219	0.0027	-0.0849
11	2045	710	-742.5	SLV FO 8	-0.01132	-0.13457	-0.08349	-0.0219	0.0027	-0.0849
11	2045	710	-742.5	SLV FO 9	-0.05689	0.13457	-0.08742	0.0219	0.0136	0.0849

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
11	2045	710	-742.5	SLV FO 10	-0.05689	0.13457	-0.08742	0.0219	0.0136	0.0849
11	2045	710	-742.5	SLV FO 11	-0.05689	-0.13457	-0.08742	-0.0219	0.0136	-0.0849
11	2045	710	-742.5	SLV FO 12	-0.05689	-0.13457	-0.08742	-0.0219	0.0136	-0.0849
11	2045	710	-742.5	SLV FO 13	-0.11004	0.04037	-0.092	0.0066	0.0262	0.0255
11	2045	710	-742.5	SLV FO 14	-0.11004	0.04037	-0.092	0.0066	0.0262	0.0255
11	2045	710	-742.5	SLV FO 15	-0.11004	-0.04037	-0.092	-0.0066	0.0262	-0.0255
11	2045	710	-742.5	SLV FO 16	-0.11004	-0.04037	-0.092	-0.0066	0.0262	-0.0255
12	575	1210	-742.5	SLU 1	0.01955	0	-0.08016	0	-0.0047	0
12	575	1210	-742.5	SLU 2	-0.00843	-0.01909	-0.0593	-0.003	0.002	-0.0175
12	575	1210	-742.5	SLU 3	-0.03323	-0.01908	-0.04626	-0.003	0.0079	-0.0175
12	575	1210	-742.5	SLU 4	-0.02178	0	-0.05844	0	0.0052	0
12	575	1210	-742.5	SLU 5	-0.03857	-0.01144	-0.04592	-0.0018	0.0092	-0.0105
12	575	1210	-742.5	SLU 6	-0.00026	-0.01909	-0.0656	-0.003	0.0001	-0.0175
12	575	1210	-742.5	SLU 7	-0.02506	-0.01908	-0.05256	-0.003	0.006	-0.0175
12	575	1210	-742.5	SLU 8	-0.01361	0	-0.06474	0	0.0032	0
12	575	1210	-742.5	SLU 9	-0.0304	-0.01145	-0.05222	-0.0018	0.0072	-0.0105
12	575	1210	-742.5	SLU 10	0.03589	0	-0.09277	0	-0.0086	0
12	575	1210	-742.5	SLU 11	0.0191	-0.01146	-0.08025	-0.0018	-0.0046	-0.0105
12	575	1210	-742.5	SLU 12	0.01109	0	-0.07973	0	-0.0026	0
12	575	1210	-742.5	SLU 13	-0.0057	-0.01145	-0.06721	-0.0018	0.0014	-0.0105
12	575	1210	-742.5	SLU 14	0.02713	0	-0.08614	0	-0.0065	0
12	575	1210	-742.5	SLU 15	-0.00086	-0.01909	-0.06527	-0.003	0.0002	-0.0175
12	575	1210	-742.5	SLU 16	-0.02566	-0.01908	-0.05223	-0.003	0.0061	-0.0175
12	575	1210	-742.5	SLU 17	-0.0142	0	-0.06441	0	0.0034	0
12	575	1210	-742.5	SLU 18	-0.03099	-0.01145	-0.05189	-0.0018	0.0074	-0.0105
12	575	1210	-742.5	SLU 19	0.00731	-0.01909	-0.07157	-0.003	-0.0017	-0.0175
12	575	1210	-742.5	SLU 20	-0.01748	-0.01908	-0.05854	-0.003	0.0042	-0.0175
12	575	1210	-742.5	SLU 21	-0.00603	0	-0.07072	0	0.0014	0
12	575	1210	-742.5	SLU 22	-0.02282	-0.01145	-0.05819	-0.0018	0.0054	-0.0105
12	575	1210	-742.5	SLU 23	0.04346	0	-0.09874	0	-0.0104	0
12	575	1210	-742.5	SLU 24	0.02668	-0.01146	-0.08622	-0.0018	-0.0064	-0.0105
12	575	1210	-742.5	SLU 25	0.01867	0	-0.08571	0	-0.0045	0
12	575	1210	-742.5	SLU 26	0.00188	-0.01145	-0.07319	-0.0018	-0.0004	-0.0105
12	575	1210	-742.5	SLU 27	0.02542	0	-0.10421	0	-0.0061	0
12	575	1210	-742.5	SLU 28	-0.00257	-0.01909	-0.08334	-0.003	0.0006	-0.0175
12	575	1210	-742.5	SLU 29	-0.02737	-0.01908	-0.07031	-0.003	0.0065	-0.0175
12	575	1210	-742.5	SLU 30	-0.01591	0	-0.08249	0	0.0038	0
12	575	1210	-742.5	SLU 31	-0.0327	-0.01144	-0.06997	-0.0018	0.0078	-0.0105
12	575	1210	-742.5	SLU 32	0.0056	-0.01909	-0.08965	-0.003	-0.0013	-0.0175
12	575	1210	-742.5	SLU 33	-0.0192	-0.01908	-0.07661	-0.003	0.0046	-0.0175
12	575	1210	-742.5	SLU 34	-0.00774	0	-0.08879	0	0.0018	0
12	575	1210	-742.5	SLU 35	-0.02453	-0.01145	-0.07627	-0.0018	0.0058	-0.0105
12	575	1210	-742.5	SLU 36	0.04175	0	-0.11682	0	-0.01	0
12	575	1210	-742.5	SLU 37	0.02497	-0.01146	-0.1043	-0.0018	-0.006	-0.0105
12	575	1210	-742.5	SLU 38	0.01696	0	-0.10378	0	-0.004	0
12	575	1210	-742.5	SLU 39	0.00017	-0.01145	-0.09126	-0.0018	0	-0.0105
12	575	1210	-742.5	SLU 40	0.03299	0	-0.11019	0	-0.0079	0
12	575	1210	-742.5	SLU 41	0.00501	-0.01909	-0.08932	-0.003	-0.0012	-0.0175
12	575	1210	-742.5	SLU 42	-0.01979	-0.01908	-0.07628	-0.003	0.0047	-0.0175
12	575	1210	-742.5	SLU 43	-0.00834	0	-0.08846	0	0.002	0
12	575	1210	-742.5	SLU 44	-0.02513	-0.01145	-0.07594	-0.0018	0.006	-0.0105
12	575	1210	-742.5	SLU 45	0.01318	-0.01909	-0.09562	-0.003	-0.0031	-0.0176
12	575	1210	-742.5	SLU 46	-0.01162	-0.01908	-0.08259	-0.003	0.0028	-0.0175
12	575	1210	-742.5	SLU 47	-0.00017	0	-0.09476	0	0	0
12	575	1210	-742.5	SLU 48	-0.01696	-0.01145	-0.08224	-0.0018	0.004	-0.0105
12	575	1210	-742.5	SLU 49	0.04933	0	-0.12279	0	-0.0118	0
12	575	1210	-742.5	SLU 50	0.03254	-0.01146	-0.11027	-0.0018	-0.0078	-0.0105
12	575	1210	-742.5	SLU 51	0.02453	0	-0.10976	0	-0.0059	0
12	575	1210	-742.5	SLU 52	0.00775	-0.01145	-0.09724	-0.0018	-0.0018	-0.0105
12	575	1210	-742.5	SLE RA 1	0.0246	0	-0.08415	0	-0.0059	0
12	575	1210	-742.5	SLE RA 2	0.00595	-0.01273	-0.07023	-0.002	-0.0014	-0.0117
12	575	1210	-742.5	SLE RA 3	-0.01059	-0.01272	-0.06154	-0.002	0.0025	-0.0117
12	575	1210	-742.5	SLE RA 4	-0.00295	0	-0.06966	0	0.0007	0
12	575	1210	-742.5	SLE RA 5	-0.01414	-0.00763	-0.06132	-0.0012	0.0034	-0.007
12	575	1210	-742.5	SLE RA 6	0.01139	-0.01273	-0.07444	-0.002	-0.0027	-0.0117
12	575	1210	-742.5	SLE RA 7	-0.00514	-0.01272	-0.06575	-0.002	0.0012	-0.0117
12	575	1210	-742.5	SLE RA 8	0.0025	0	-0.07387	0	-0.0006	0
12	575	1210	-742.5	SLE RA 9	-0.0087	-0.00763	-0.06552	-0.0012	0.0021	-0.007
12	575	1210	-742.5	SLE RA 10	0.03549	0	-0.09255	0	-0.0085	0
12	575	1210	-742.5	SLE RA 11	0.0243	-0.00764	-0.0842	-0.0012	-0.0058	-0.007
12	575	1210	-742.5	SLE RA 12	0.01896	0	-0.08386	0	-0.0045	0
12	575	1210	-742.5	SLE RA 13	0.00777	-0.00764	-0.07551	-0.0012	-0.0019	-0.007
12	575	1210	-742.5	SLE FR 1	0.0246	0	-0.08415	0	-0.0059	0
12	575	1210	-742.5	SLE FR 2	0.02087	-0.00255	-0.08136	-0.0004	-0.005	-0.0023
12	575	1210	-742.5	SLE FR 3	0.01909	0	-0.08125	0	-0.0046	0
12	575	1210	-742.5	SLE FR 4	0.02678	0	-0.08583	0	-0.0064	0
12	575	1210	-742.5	SLE QP 1	0.0246	0	-0.08415	0	-0.0059	0
12	575	1210	-742.5	SLD 1	0.04386	0.01605	-0.08672	0.0025	-0.0105	0.0173
12	575	1210	-742.5	SLD 2	0.04386	0.01605	-0.08672	0.0025	-0.0105	0.0173
12	575	1210	-742.5	SLD 3	0.03873	-0.01604	-0.08636	-0.0025	-0.0092	-0.0173
12	575	1210	-742.5	SLD 4	0.03873	-0.01604	-0.08636	-0.0025	-0.0092	-0.0173
12	575	1210	-742.5	SLD 5	0.03815	0.05349	-0.08546	0.0083	-0.0091	0.0577
12	575	1210	-742.5	SLD 6	0.03815	0.05349	-0.08546	0.0083	-0.0091	0.0577
12	575	1210	-742.5	SLD 7	0.02107	-0.05347	-0.08427	-0.0083	-0.005	-0.0578
12	575	1210	-742.5	SLD 8	0.02107	-0.05347	-0.08427	-0.0083	-0.005	-0.0578
12	575	1210	-742.5	SLD 9	0.02814	0.05349	-0.08402	0.0083	-0.0067	0.0577
12	575	1210	-742.5	SLD 10	0.02814	0.05349	-0.08402	0.0083	-0.0067	0.0577
12	575	1210	-742.5	SLD 11	0.01105	-0.05347	-0.08284	-0.0083	-0.0026	-0.0578
12	575	1210	-742.5	SLD 12	0.01105	-0.05347	-0.08284	-0.0083	-0.0026	-0.0578
12	575	1210	-742.5	SLD 13	0.01047	0.01605	-0.08193	0.0025	-0.0025	0.0173
12	575	1210	-742.5	SLD 14	0.01047	0.01605	-0.08193	0.0025	-0.0025	0.0173
12	575	1210	-742.5	SLD 15	0.00535	-0.01604	-0.08157	-0.0025	-0.0013	-0.0173
12	575	1210	-742.5	SLD 16	0.00535	-0.01604	-0.08157	-0.0025	-0.0013	-0.0173
12	575	1210	-742.5	SLV 1	0.07406	0.04122	-0.09075	0.0064	-0.0177	0.0445
12	575	1210	-742.5	SLV 2	0.07406	0.04122	-0.09075	0.0064	-0.0177	0.0445
12	575	1210	-742.5	SLV 3	0.0609	-0.04121	-0.08984	-0.0064	-0.0145	-0.0445
12	575	1210	-742.5	SLV 4	0.0609	-0.04121	-0.08984	-0.0064	-0.0145	-0.0445
12	575	1210	-742.5	SLV 5	0.05941	0.1374	-0.08751	0.0214	-0.0142	0.1483
12	575	1210	-742.5	SLV 6	0.05941	0.1374	-0.08751	0.0214	-0.0142	0.1483
12	575	1210	-742.5	SLV 7	0.01552	-0.13735	-0.08447	-0.0214	-0.0037	-0.1484

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
12	575	1210	-742.5	SLV 8	0.01552	-0.13735	-0.08447	-0.0214	-0.0037	-0.1484
12	575	1210	-742.5	SLV 9	0.03368	0.1374	-0.08382	0.0214	-0.008	0.1483
12	575	1210	-742.5	SLV 10	0.03368	0.1374	-0.08382	0.0214	-0.008	0.1483
12	575	1210	-742.5	SLV 11	-0.0102	-0.13735	-0.08078	-0.0214	0.0024	-0.1484
12	575	1210	-742.5	SLV 12	-0.0102	-0.13735	-0.08078	-0.0214	0.0024	-0.1484
12	575	1210	-742.5	SLV 13	-0.01169	0.04122	-0.07845	0.0064	0.0028	0.0445
12	575	1210	-742.5	SLV 14	-0.01169	0.04122	-0.07845	0.0064	0.0028	0.0445
12	575	1210	-742.5	SLV 15	-0.02486	-0.04121	-0.07754	-0.0064	0.0059	-0.0445
12	575	1210	-742.5	SLV 16	-0.02486	-0.04121	-0.07754	-0.0064	0.0059	-0.0445
12	575	1210	-742.5	SLV FO 1	0.07406	0.04122	-0.09075	0.0064	-0.0177	0.0445
12	575	1210	-742.5	SLV FO 2	0.07406	0.04122	-0.09075	0.0064	-0.0177	0.0445
12	575	1210	-742.5	SLV FO 3	0.0609	-0.04121	-0.08984	-0.0064	-0.0145	-0.0445
12	575	1210	-742.5	SLV FO 4	0.0609	-0.04121	-0.08984	-0.0064	-0.0145	-0.0445
12	575	1210	-742.5	SLV FO 5	0.05941	0.1374	-0.08751	0.0214	-0.0142	0.1483
12	575	1210	-742.5	SLV FO 6	0.05941	0.1374	-0.08751	0.0214	-0.0142	0.1483
12	575	1210	-742.5	SLV FO 7	0.01552	-0.13735	-0.08447	-0.0214	-0.0037	-0.1484
12	575	1210	-742.5	SLV FO 8	0.01552	-0.13735	-0.08447	-0.0214	-0.0037	-0.1484
12	575	1210	-742.5	SLV FO 9	0.03368	0.1374	-0.08382	0.0214	-0.008	0.1483
12	575	1210	-742.5	SLV FO 10	0.03368	0.1374	-0.08382	0.0214	-0.008	0.1483
12	575	1210	-742.5	SLV FO 11	-0.0102	-0.13735	-0.08078	-0.0214	0.0024	-0.1484
12	575	1210	-742.5	SLV FO 12	-0.0102	-0.13735	-0.08078	-0.0214	0.0024	-0.1484
12	575	1210	-742.5	SLV FO 13	-0.01169	0.04122	-0.07845	0.0064	0.0028	0.0445
12	575	1210	-742.5	SLV FO 14	-0.01169	0.04122	-0.07845	0.0064	0.0028	0.0445
12	575	1210	-742.5	SLV FO 15	-0.02486	-0.04121	-0.07754	-0.0064	0.0059	-0.0445
12	575	1210	-742.5	SLV FO 16	-0.02486	-0.04121	-0.07754	-0.0064	0.0059	-0.0445
13	2045	1210	-742.5	SLU 1	-0.01856	0	-0.0755	0	0.0044	0
13	2045	1210	-742.5	SLU 2	0.00011	-0.02378	-0.05977	-0.0039	0	-0.0105
13	2045	1210	-742.5	SLU 3	0.0041	-0.02379	-0.05094	-0.0039	-0.001	-0.0105
13	2045	1210	-742.5	SLU 4	-0.0119	0.00001	-0.06079	0	0.0028	0
13	2045	1210	-742.5	SLU 5	-0.0007	-0.01427	-0.05135	-0.0023	0.0002	-0.0063
13	2045	1210	-742.5	SLU 6	-0.00656	-0.02378	-0.06466	-0.0039	0.0016	-0.0105
13	2045	1210	-742.5	SLU 7	-0.00257	-0.02379	-0.05584	-0.0039	0.0006	-0.0105
13	2045	1210	-742.5	SLU 8	-0.01858	0	-0.06569	0	0.0044	0
13	2045	1210	-742.5	SLU 9	-0.00737	-0.01427	-0.05625	-0.0023	0.0018	-0.0063
13	2045	1210	-742.5	SLU 10	-0.03192	0	-0.08529	0	0.0076	0
13	2045	1210	-742.5	SLU 11	-0.02071	-0.01427	-0.07585	-0.0023	0.0049	-0.0063
13	2045	1210	-742.5	SLU 12	-0.02791	0	-0.07647	0	0.0067	0
13	2045	1210	-742.5	SLU 13	-0.01671	-0.01427	-0.06703	-0.0023	0.004	-0.0063
13	2045	1210	-742.5	SLU 14	-0.02471	0	-0.08008	0	0.0059	0
13	2045	1210	-742.5	SLU 15	-0.00604	-0.02378	-0.06435	-0.0039	0.0014	-0.0105
13	2045	1210	-742.5	SLU 16	-0.00204	-0.02379	-0.05552	-0.0039	0.0005	-0.0105
13	2045	1210	-742.5	SLU 17	-0.01805	0	-0.06537	0	0.0043	0
13	2045	1210	-742.5	SLU 18	-0.00685	-0.01427	-0.05593	-0.0023	0.0016	-0.0063
13	2045	1210	-742.5	SLU 19	-0.01271	-0.02378	-0.06924	-0.0039	0.003	-0.0105
13	2045	1210	-742.5	SLU 20	-0.00872	-0.02379	-0.06042	-0.0039	0.0021	-0.0105
13	2045	1210	-742.5	SLU 21	-0.02472	0	-0.07027	0	0.0059	0
13	2045	1210	-742.5	SLU 22	-0.01352	-0.01427	-0.06083	-0.0023	0.0032	-0.0063
13	2045	1210	-742.5	SLU 23	-0.03807	0.00001	-0.08987	0	0.0091	0
13	2045	1210	-742.5	SLU 24	-0.02686	-0.01427	-0.08043	-0.0023	0.0064	-0.0063
13	2045	1210	-742.5	SLU 25	-0.03406	0	-0.08104	0	0.0081	0
13	2045	1210	-742.5	SLU 26	-0.02286	-0.01427	-0.07161	-0.0023	0.0055	-0.0063
13	2045	1210	-742.5	SLU 27	-0.02413	0	-0.09815	0	0.0058	0
13	2045	1210	-742.5	SLU 28	-0.00546	-0.02378	-0.08242	-0.0039	0.0013	-0.0105
13	2045	1210	-742.5	SLU 29	-0.00146	-0.02379	-0.0736	-0.0039	0.0003	-0.0105
13	2045	1210	-742.5	SLU 30	-0.01747	0.00001	-0.08344	0	0.0042	0
13	2045	1210	-742.5	SLU 31	-0.00627	-0.01427	-0.07401	-0.0023	0.0015	-0.0063
13	2045	1210	-742.5	SLU 32	-0.01213	-0.02378	-0.08731	-0.0039	0.0029	-0.0105
13	2045	1210	-742.5	SLU 33	-0.00814	-0.02379	-0.07849	-0.0039	0.0019	-0.0105
13	2045	1210	-742.5	SLU 34	-0.02414	0	-0.08834	0	0.0058	0
13	2045	1210	-742.5	SLU 35	-0.01294	-0.01427	-0.0789	-0.0023	0.0031	-0.0063
13	2045	1210	-742.5	SLU 36	-0.03748	0	-0.10794	0	0.0089	0
13	2045	1210	-742.5	SLU 37	-0.02627	-0.01427	-0.0985	-0.0023	0.0063	-0.0063
13	2045	1210	-742.5	SLU 38	-0.03348	0	-0.09912	0	0.008	0
13	2045	1210	-742.5	SLU 39	-0.02228	-0.01427	-0.08968	-0.0023	0.0053	-0.0063
13	2045	1210	-742.5	SLU 40	-0.03028	0	-0.10273	0	0.0072	0
13	2045	1210	-742.5	SLU 41	-0.0116	-0.02378	-0.087	-0.0039	0.0028	-0.0105
13	2045	1210	-742.5	SLU 42	-0.00761	-0.02379	-0.07817	-0.0039	0.0018	-0.0105
13	2045	1210	-742.5	SLU 43	-0.02362	0	-0.08802	0	0.0056	0
13	2045	1210	-742.5	SLU 44	-0.01241	-0.01427	-0.07858	-0.0023	0.003	-0.0063
13	2045	1210	-742.5	SLU 45	-0.01828	-0.02378	-0.09189	-0.0039	0.0044	-0.0105
13	2045	1210	-742.5	SLU 46	-0.01429	-0.02378	-0.08307	-0.0039	0.0034	-0.0105
13	2045	1210	-742.5	SLU 47	-0.03029	0	-0.09292	0	0.0072	0
13	2045	1210	-742.5	SLU 48	-0.01909	-0.01427	-0.08348	-0.0023	0.0046	-0.0063
13	2045	1210	-742.5	SLU 49	-0.04363	0.00001	-0.11252	0	0.0104	0
13	2045	1210	-742.5	SLU 50	-0.03243	-0.01427	-0.10308	-0.0023	0.0077	-0.0063
13	2045	1210	-742.5	SLU 51	-0.03964	0	-0.1037	0	0.0095	0
13	2045	1210	-742.5	SLU 52	-0.02843	-0.01427	-0.09426	-0.0023	0.0068	-0.0063
13	2045	1210	-742.5	SLE RA 1	-0.02266	0	-0.07855	0	0.0054	0
13	2045	1210	-742.5	SLE RA 2	-0.01021	-0.01585	-0.06806	-0.0026	0.0024	-0.007
13	2045	1210	-742.5	SLE RA 3	-0.00755	-0.01586	-0.06218	-0.0026	0.0018	-0.007
13	2045	1210	-742.5	SLE RA 4	-0.01822	0	-0.06875	0	0.0043	0
13	2045	1210	-742.5	SLE RA 5	-0.01075	-0.00951	-0.06245	-0.0016	0.0026	-0.0042
13	2045	1210	-742.5	SLE RA 6	-0.01466	-0.01585	-0.07133	-0.0026	0.0035	-0.007
13	2045	1210	-742.5	SLE RA 7	-0.012	-0.01586	-0.06545	-0.0026	0.0029	-0.007
13	2045	1210	-742.5	SLE RA 8	-0.02267	0	-0.07201	0	0.0054	0
13	2045	1210	-742.5	SLE RA 9	-0.0152	-0.00951	-0.06572	-0.0016	0.0036	-0.0042
13	2045	1210	-742.5	SLE RA 10	-0.03156	0	-0.08508	0	0.0075	0
13	2045	1210	-742.5	SLE RA 11	-0.02409	-0.00951	-0.07879	-0.0016	0.0057	-0.0042
13	2045	1210	-742.5	SLE RA 12	-0.0289	0	-0.0792	0	0.0069	0
13	2045	1210	-742.5	SLE RA 13	-0.02143	-0.00951	-0.0729	-0.0016	0.0051	-0.0042
13	2045	1210	-742.5	SLE FR 1	-0.02266	0	-0.07855	0	0.0054	0
13	2045	1210	-742.5	SLE FR 2	-0.02017	-0.00317	-0.07646	-0.0005	0.0048	-0.0014
13	2045	1210	-742.5	SLE FR 3	-0.02177	0	-0.07659	0	0.0052	0
13	2045	1210	-742.5	SLE FR 4	-0.02444	0	-0.07986	0	0.0058	0
13	2045	1210	-742.5	SLE QP 1	-0.02266	0	-0.07855	0	0.0054	0
13	2045	1210	-742.5	SLD 1	0.00937	0.01573	-0.07565	0.0026	-0.0022	0.0099
13	2045	1210	-742.5	SLD 2	0.00937	0.01573	-0.07565	0.0026	-0.0022	0.0099
13	2045	1210	-742.5	SLD 3	-0.00026	-0.0157	-0.07662	-0.0026	0.0001	-0.0099
13	2045	1210	-742.5	SLD 4	-0.00026	-0.0157	-0.07662	-0.0026	0.0001	-0.0099
13	2045	1210	-742.5	SLD 5	0.00155	0.05243	-0.07622	0.0085	-0.0004	0.0332
13	2045	1210	-742.5	SLD 6	0.00155	0.05243	-0.07622	0.0085	-0.0004	0.0332
13	2045	1210	-742.5	SLD 7	-0.03053	-0.05233	-0.07944	-0.0085	0.0073	-0.033
13	2045	1210	-742.5	SLD 8	-0.03053	-0.05233	-0.07944	-0.0085	0.0073	-0.033

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
13	2045	1210	-742.5	SLD 9	-0.01478	0.05243	-0.07767	0.0085	0.0035	0.0332
13	2045	1210	-742.5	SLD 10	-0.01478	0.05243	-0.07767	0.0085	0.0035	0.0332
13	2045	1210	-742.5	SLD 11	-0.04686	-0.05233	-0.08089	-0.0085	0.0112	-0.033
13	2045	1210	-742.5	SLD 12	-0.04686	-0.05233	-0.08089	-0.0085	0.0112	-0.033
13	2045	1210	-742.5	SLD 13	-0.04506	0.01573	-0.08049	0.0026	0.0107	0.0099
13	2045	1210	-742.5	SLD 14	-0.04506	0.01573	-0.08049	0.0026	0.0107	0.0099
13	2045	1210	-742.5	SLD 15	-0.05468	-0.0157	-0.08146	-0.0026	0.013	-0.0099
13	2045	1210	-742.5	SLD 16	-0.05468	-0.0157	-0.08146	-0.0026	0.013	-0.0099
13	2045	1210	-742.5	SLV 1	0.05961	0.04041	-0.07109	0.0066	-0.0142	0.0256
13	2045	1210	-742.5	SLV 2	0.05961	0.04041	-0.07109	0.0066	-0.0142	0.0256
13	2045	1210	-742.5	SLV 3	0.03489	-0.04033	-0.07358	-0.0066	-0.0083	-0.0254
13	2045	1210	-742.5	SLV 4	0.03489	-0.04033	-0.07358	-0.0066	-0.0083	-0.0254
13	2045	1210	-742.5	SLV 5	0.03954	0.13469	-0.07255	0.0219	-0.0094	0.0852
13	2045	1210	-742.5	SLV 6	0.03954	0.13469	-0.07255	0.0219	-0.0094	0.0852
13	2045	1210	-742.5	SLV 7	-0.04289	-0.13443	-0.08083	-0.0219	0.0102	-0.0848
13	2045	1210	-742.5	SLV 8	-0.04289	-0.13443	-0.08083	-0.0219	0.0102	-0.0848
13	2045	1210	-742.5	SLV 9	-0.0024	0.13469	-0.07628	0.0219	0.0006	0.0852
13	2045	1210	-742.5	SLV 10	-0.0024	0.13469	-0.07628	0.0219	0.0006	0.0852
13	2045	1210	-742.5	SLV 11	-0.08483	-0.13443	-0.08456	-0.0219	0.0202	-0.0848
13	2045	1210	-742.5	SLV 12	-0.08483	-0.13443	-0.08456	-0.0219	0.0202	-0.0848
13	2045	1210	-742.5	SLV 13	-0.0802	0.0404	-0.08353	0.0066	0.0191	0.0255
13	2045	1210	-742.5	SLV 14	-0.0802	0.0404	-0.08353	0.0066	0.0191	0.0255
13	2045	1210	-742.5	SLV 15	-0.10492	-0.04033	-0.08601	-0.0066	0.025	-0.0254
13	2045	1210	-742.5	SLV 16	-0.10492	-0.04033	-0.08601	-0.0066	0.025	-0.0254
13	2045	1210	-742.5	SLV FO 1	0.05961	0.04041	-0.07109	0.0066	-0.0142	0.0256
13	2045	1210	-742.5	SLV FO 2	0.05961	0.04041	-0.07109	0.0066	-0.0142	0.0256
13	2045	1210	-742.5	SLV FO 3	0.03489	-0.04033	-0.07358	-0.0066	-0.0083	-0.0254
13	2045	1210	-742.5	SLV FO 4	0.03489	-0.04033	-0.07358	-0.0066	-0.0083	-0.0254
13	2045	1210	-742.5	SLV FO 5	0.03954	0.13469	-0.07255	0.0219	-0.0094	0.0852
13	2045	1210	-742.5	SLV FO 6	0.03954	0.13469	-0.07255	0.0219	-0.0094	0.0852
13	2045	1210	-742.5	SLV FO 7	-0.04289	-0.13443	-0.08083	-0.0219	0.0102	-0.0848
13	2045	1210	-742.5	SLV FO 8	-0.04289	-0.13443	-0.08083	-0.0219	0.0102	-0.0848
13	2045	1210	-742.5	SLV FO 9	-0.0024	0.13469	-0.07628	0.0219	0.0006	0.0852
13	2045	1210	-742.5	SLV FO 10	-0.0024	0.13469	-0.07628	0.0219	0.0006	0.0852
13	2045	1210	-742.5	SLV FO 11	-0.08483	-0.13443	-0.08456	-0.0219	0.0202	-0.0848
13	2045	1210	-742.5	SLV FO 12	-0.08483	-0.13443	-0.08456	-0.0219	0.0202	-0.0848
13	2045	1210	-742.5	SLV FO 13	-0.0802	0.0404	-0.08353	0.0066	0.0191	0.0255
13	2045	1210	-742.5	SLV FO 14	-0.0802	0.0404	-0.08353	0.0066	0.0191	0.0255
13	2045	1210	-742.5	SLV FO 15	-0.10492	-0.04033	-0.08601	-0.0066	0.025	-0.0254
13	2045	1210	-742.5	SLV FO 16	-0.10492	-0.04033	-0.08601	-0.0066	0.025	-0.0254
14	575	210	-567.5	SLU 1	0.00438	0	-0.08067	0	-0.0057	0
14	575	210	-567.5	SLU 2	-0.00123	-0.00911	-0.05952	-0.004	0.0016	-0.0194
14	575	210	-567.5	SLU 3	-0.00678	-0.00911	-0.04636	-0.004	0.0088	-0.0194
14	575	210	-567.5	SLU 4	-0.00488	0	-0.05873	0	0.0063	0
14	575	210	-567.5	SLU 5	-0.00824	-0.00547	-0.04605	-0.0024	0.0107	-0.0116
14	575	210	-567.5	SLU 6	0.0006	-0.00911	-0.06589	-0.004	-0.0008	-0.0194
14	575	210	-567.5	SLU 7	-0.00495	-0.00911	-0.05273	-0.004	0.0064	-0.0194
14	575	210	-567.5	SLU 8	-0.00305	0	-0.0651	0	0.004	0
14	575	210	-567.5	SLU 9	-0.00641	-0.00547	-0.05241	-0.0024	0.0083	-0.0116
14	575	210	-567.5	SLU 10	0.00804	0	-0.09339	0	-0.0104	0
14	575	210	-567.5	SLU 11	0.00467	-0.00547	-0.08071	-0.0024	-0.0061	-0.0116
14	575	210	-567.5	SLU 12	0.00248	0	-0.08023	0	-0.0032	0
14	575	210	-567.5	SLU 13	-0.00088	-0.00547	-0.06755	-0.0024	0.0011	-0.0116
14	575	210	-567.5	SLU 14	0.00608	0	-0.0867	0	-0.0079	0
14	575	210	-567.5	SLU 15	0.00047	-0.00911	-0.06555	-0.004	-0.0006	-0.0194
14	575	210	-567.5	SLU 16	-0.00509	-0.00911	-0.05239	-0.004	0.0066	-0.0194
14	575	210	-567.5	SLU 17	-0.00318	0	-0.06476	0	0.0041	0
14	575	210	-567.5	SLU 18	-0.00655	-0.00547	-0.05208	-0.0024	0.0085	-0.0116
14	575	210	-567.5	SLU 19	0.00229	-0.00911	-0.07192	-0.004	-0.003	-0.0194
14	575	210	-567.5	SLU 20	-0.00326	-0.00911	-0.05876	-0.004	0.0042	-0.0194
14	575	210	-567.5	SLU 21	-0.00135	0	-0.07113	0	0.0018	0
14	575	210	-567.5	SLU 22	-0.00472	-0.00547	-0.05844	-0.0024	0.0061	-0.0116
14	575	210	-567.5	SLU 23	0.00974	0	-0.09942	0	-0.0126	0
14	575	210	-567.5	SLU 24	0.00637	-0.00547	-0.08674	-0.0024	-0.0083	-0.0116
14	575	210	-567.5	SLU 25	0.00418	0	-0.08626	0	-0.0054	0
14	575	210	-567.5	SLU 26	0.00082	-0.00547	-0.07358	-0.0024	-0.0011	-0.0116
14	575	210	-567.5	SLU 27	0.00569	0	-0.10487	0	-0.0074	0
14	575	210	-567.5	SLU 28	0.00008	-0.00911	-0.08372	-0.004	-0.0001	-0.0194
14	575	210	-567.5	SLU 29	-0.00547	-0.00911	-0.07056	-0.004	0.0071	-0.0194
14	575	210	-567.5	SLU 30	-0.00356	0	-0.08293	0	0.0046	0
14	575	210	-567.5	SLU 31	-0.00693	-0.00547	-0.07025	-0.0024	0.009	-0.0116
14	575	210	-567.5	SLU 32	0.00191	-0.00911	-0.09009	-0.004	-0.0025	-0.0194
14	575	210	-567.5	SLU 33	-0.00364	-0.00911	-0.07693	-0.004	0.0047	-0.0194
14	575	210	-567.5	SLU 34	-0.00173	0	-0.0893	0	0.0023	0
14	575	210	-567.5	SLU 35	-0.0051	-0.00547	-0.07661	-0.0024	0.0066	-0.0116
14	575	210	-567.5	SLU 36	0.00935	0	-0.11759	0	-0.0121	0
14	575	210	-567.5	SLU 37	0.00599	-0.00547	-0.10491	-0.0024	-0.0078	-0.0116
14	575	210	-567.5	SLU 38	0.0038	0	-0.10443	0	-0.0049	0
14	575	210	-567.5	SLU 39	0.00043	-0.00547	-0.09175	-0.0024	-0.0006	-0.0116
14	575	210	-567.5	SLU 40	0.00739	0	-0.1109	0	-0.0096	0
14	575	210	-567.5	SLU 41	0.00178	-0.00911	-0.08975	-0.004	-0.0023	-0.0194
14	575	210	-567.5	SLU 42	-0.00377	-0.00911	-0.07659	-0.004	0.0049	-0.0194
14	575	210	-567.5	SLU 43	-0.00187	0	-0.08896	0	0.0024	0
14	575	210	-567.5	SLU 44	-0.00523	-0.00547	-0.07628	-0.0024	0.0068	-0.0116
14	575	210	-567.5	SLU 45	0.00361	-0.00912	-0.09612	-0.004	-0.0047	-0.0194
14	575	210	-567.5	SLU 46	-0.00194	-0.00911	-0.08296	-0.004	0.0025	-0.0194
14	575	210	-567.5	SLU 47	-0.00004	0	-0.09533	0	0	0
14	575	210	-567.5	SLU 48	-0.0034	-0.00547	-0.08264	-0.0024	0.0044	-0.0116
14	575	210	-567.5	SLU 49	0.01105	0	-0.12362	0	-0.0143	0
14	575	210	-567.5	SLU 50	0.00768	-0.00547	-0.11094	-0.0024	-0.01	-0.0116
14	575	210	-567.5	SLU 51	0.0055	0	-0.11046	0	-0.0071	0
14	575	210	-567.5	SLU 52	0.00213	-0.00547	-0.09778	-0.0024	-0.0028	-0.0116
14	575	210	-567.5	SLE RA 1	0.00551	0	-0.08469	0	-0.0072	0
14	575	210	-567.5	SLE RA 2	0.00177	-0.00608	-0.07059	-0.0027	-0.0023	-0.0129
14	575	210	-567.5	SLE RA 3	-0.00193	-0.00607	-0.06182	-0.0027	0.0025	-0.0129
14	575	210	-567.5	SLE RA 4	-0.00066	0	-0.07006	0	0.0009	0
14	575	210	-567.5	SLE RA 5	-0.0029	-0.00364	-0.06161	-0.0016	0.0038	-0.0077
14	575	210	-567.5	SLE RA 6	0.00299	-0.00608	-0.07483	-0.0027	-0.0039	-0.0129
14	575	210	-567.5	SLE RA 7	-0.00071	-0.00607	-0.06606	-0.0027	0.0009	-0.0129
14	575	210	-567.5	SLE RA 8	0.00056	0	-0.07431	0	-0.0007	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
14	575	210	-567.5	SLE RA 9	-0.00168	-0.00364	-0.06585	-0.0016	0.0022	-0.0077
14	575	210	-567.5	SLE RA 10	0.00795	0	-0.09317	0	-0.0103	0
14	575	210	-567.5	SLE RA 11	0.00571	-0.00365	-0.08471	-0.0016	-0.0074	-0.0078
14	575	210	-567.5	SLE RA 12	0.00425	0	-0.0844	0	-0.0055	0
14	575	210	-567.5	SLE RA 13	0.002	-0.00365	-0.07594	-0.0016	-0.0026	-0.0078
14	575	210	-567.5	SLE FR 1	0.00551	0	-0.08469	0	-0.0072	0
14	575	210	-567.5	SLE FR 2	0.00476	-0.00122	-0.08187	-0.0005	-0.0062	-0.0026
14	575	210	-567.5	SLE FR 3	0.00428	0	-0.08176	0	-0.0056	0
14	575	210	-567.5	SLE FR 4	0.006	0	-0.08638	0	-0.0078	0
14	575	210	-567.5	SLE QP 1	0.00551	0	-0.08469	0	-0.0072	0
14	575	210	-567.5	SLD 1	0.00868	0.00764	-0.08693	0.0033	-0.0113	0.0192
14	575	210	-567.5	SLD 2	0.00868	0.00764	-0.08693	0.0033	-0.0113	0.0192
14	575	210	-567.5	SLD 3	0.00982	-0.00764	-0.08728	-0.0033	-0.0128	-0.0192
14	575	210	-567.5	SLD 4	0.00982	-0.00764	-0.08728	-0.0033	-0.0128	-0.0192
14	575	210	-567.5	SLD 5	0.00472	0.02546	-0.08482	0.0111	-0.0061	0.064
14	575	210	-567.5	SLD 6	0.00472	0.02546	-0.08482	0.0111	-0.0061	0.064
14	575	210	-567.5	SLD 7	0.00855	-0.02548	-0.08601	-0.0111	-0.0111	-0.0639
14	575	210	-567.5	SLD 8	0.00855	-0.02548	-0.08601	-0.0111	-0.0111	-0.0639
14	575	210	-567.5	SLD 9	0.00248	0.02546	-0.08336	0.0111	-0.0032	0.064
14	575	210	-567.5	SLD 10	0.00248	0.02546	-0.08336	0.0111	-0.0032	0.064
14	575	210	-567.5	SLD 11	0.0063	-0.02548	-0.08456	-0.0111	-0.0082	-0.0639
14	575	210	-567.5	SLD 12	0.0063	-0.02548	-0.08456	-0.0111	-0.0082	-0.0639
14	575	210	-567.5	SLD 13	0.0012	0.00764	-0.08209	0.0033	-0.0016	0.0192
14	575	210	-567.5	SLD 14	0.0012	0.00764	-0.08209	0.0033	-0.0016	0.0192
14	575	210	-567.5	SLD 15	0.00235	-0.00764	-0.08245	-0.0033	-0.003	-0.0192
14	575	210	-567.5	SLD 16	0.00235	-0.00764	-0.08245	-0.0033	-0.003	-0.0192
14	575	210	-567.5	SLV 1	0.01364	0.01962	-0.09044	0.0086	-0.0177	0.0493
14	575	210	-567.5	SLV 2	0.01364	0.01962	-0.09044	0.0086	-0.0177	0.0493
14	575	210	-567.5	SLV 3	0.01659	-0.01963	-0.09136	-0.0086	-0.0215	-0.0493
14	575	210	-567.5	SLV 4	0.01659	-0.01963	-0.09136	-0.0086	-0.0215	-0.0493
14	575	210	-567.5	SLV 5	0.00348	0.06541	-0.08502	0.0286	-0.0045	0.1644
14	575	210	-567.5	SLV 6	0.00348	0.06541	-0.08502	0.0286	-0.0045	0.1644
14	575	210	-567.5	SLV 7	0.01331	-0.06544	-0.08808	-0.0286	-0.0173	-0.1643
14	575	210	-567.5	SLV 8	0.01331	-0.06544	-0.08808	-0.0286	-0.0173	-0.1643
14	575	210	-567.5	SLV 9	-0.00229	0.06541	-0.08129	0.0286	0.003	0.1644
14	575	210	-567.5	SLV 10	-0.00229	0.06541	-0.08129	0.0286	0.003	0.1644
14	575	210	-567.5	SLV 11	0.00754	-0.06544	-0.08436	-0.0286	-0.0098	-0.1643
14	575	210	-567.5	SLV 12	0.00754	-0.06544	-0.08436	-0.0286	-0.0098	-0.1643
14	575	210	-567.5	SLV 13	-0.00557	0.01962	-0.07802	0.0086	0.0072	0.0493
14	575	210	-567.5	SLV 14	-0.00557	0.01962	-0.07802	0.0086	0.0072	0.0493
14	575	210	-567.5	SLV 15	-0.00262	-0.01964	-0.07894	-0.0086	0.0034	-0.0493
14	575	210	-567.5	SLV 16	-0.00262	-0.01964	-0.07894	-0.0086	0.0034	-0.0493
14	575	210	-567.5	SLV FO 1	0.01364	0.01962	-0.09044	0.0086	-0.0177	0.0493
14	575	210	-567.5	SLV FO 2	0.01364	0.01962	-0.09044	0.0086	-0.0177	0.0493
14	575	210	-567.5	SLV FO 3	0.01659	-0.01963	-0.09136	-0.0086	-0.0215	-0.0493
14	575	210	-567.5	SLV FO 4	0.01659	-0.01963	-0.09136	-0.0086	-0.0215	-0.0493
14	575	210	-567.5	SLV FO 5	0.00348	0.06541	-0.08502	0.0286	-0.0045	0.1644
14	575	210	-567.5	SLV FO 6	0.00348	0.06541	-0.08502	0.0286	-0.0045	0.1644
14	575	210	-567.5	SLV FO 7	0.01331	-0.06544	-0.08808	-0.0286	-0.0173	-0.1643
14	575	210	-567.5	SLV FO 8	0.01331	-0.06544	-0.08808	-0.0286	-0.0173	-0.1643
14	575	210	-567.5	SLV FO 9	-0.00229	0.06541	-0.08129	0.0286	0.003	0.1644
14	575	210	-567.5	SLV FO 10	-0.00229	0.06541	-0.08129	0.0286	0.003	0.1644
14	575	210	-567.5	SLV FO 11	0.00754	-0.06544	-0.08436	-0.0286	-0.0098	-0.1643
14	575	210	-567.5	SLV FO 12	0.00754	-0.06544	-0.08436	-0.0286	-0.0098	-0.1643
14	575	210	-567.5	SLV FO 13	-0.00557	0.01962	-0.07802	0.0086	0.0072	0.0493
14	575	210	-567.5	SLV FO 14	-0.00557	0.01962	-0.07802	0.0086	0.0072	0.0493
14	575	210	-567.5	SLV FO 15	-0.00262	-0.01964	-0.07894	-0.0086	0.0034	-0.0493
14	575	210	-567.5	SLV FO 16	-0.00262	-0.01964	-0.07894	-0.0086	0.0034	-0.0493
15	2045	210	-567.5	SLU 1	-0.00416	0	-0.07596	0	0.0054	0
15	2045	210	-567.5	SLU 2	0.0013	-0.01303	-0.05949	-0.008	-0.0017	-0.02
15	2045	210	-567.5	SLU 3	0.0022	-0.01303	-0.05058	-0.008	-0.0029	-0.02
15	2045	210	-567.5	SLU 4	-0.00267	0	-0.06111	0	0.0035	0
15	2045	210	-567.5	SLU 5	0.00061	-0.00782	-0.05123	-0.0048	-0.0008	-0.012
15	2045	210	-567.5	SLU 6	-0.00019	-0.01303	-0.06444	-0.008	0.0003	-0.02
15	2045	210	-567.5	SLU 7	0.0007	-0.01303	-0.05553	-0.008	-0.0009	-0.02
15	2045	210	-567.5	SLU 8	-0.00416	0	-0.06605	0	0.0054	0
15	2045	210	-567.5	SLU 9	-0.00088	-0.00782	-0.05617	-0.0048	0.0011	-0.012
15	2045	210	-567.5	SLU 10	-0.00715	0	-0.08584	0	0.0093	0
15	2045	210	-567.5	SLU 11	-0.00387	-0.00782	-0.07597	-0.0048	0.005	-0.012
15	2045	210	-567.5	SLU 12	-0.00625	0	-0.07693	0	0.0081	0
15	2045	210	-567.5	SLU 13	-0.00298	-0.00782	-0.06706	-0.0048	0.0039	-0.012
15	2045	210	-567.5	SLU 14	-0.00554	0	-0.08058	0	0.0072	0
15	2045	210	-567.5	SLU 15	-0.00008	-0.01303	-0.06412	-0.008	0.0001	-0.02
15	2045	210	-567.5	SLU 16	0.00082	-0.01303	-0.05521	-0.008	-0.0011	-0.02
15	2045	210	-567.5	SLU 17	-0.00404	0	-0.06573	0	0.0053	0
15	2045	210	-567.5	SLU 18	-0.00077	-0.00782	-0.05585	-0.0048	0.001	-0.012
15	2045	210	-567.5	SLU 19	-0.00157	-0.01303	-0.06906	-0.008	0.002	-0.02
15	2045	210	-567.5	SLU 20	-0.00067	-0.01303	-0.06015	-0.008	0.0009	-0.02
15	2045	210	-567.5	SLU 21	-0.00554	0	-0.07067	0	0.0072	0
15	2045	210	-567.5	SLU 22	-0.00226	-0.00782	-0.06079	-0.0048	0.0029	-0.012
15	2045	210	-567.5	SLU 23	-0.00853	0	-0.09047	0	0.0111	0
15	2045	210	-567.5	SLU 24	-0.00525	-0.00782	-0.08059	-0.0048	0.0068	-0.012
15	2045	210	-567.5	SLU 25	-0.00763	0	-0.08156	0	0.0099	0
15	2045	210	-567.5	SLU 26	-0.00435	-0.00782	-0.07168	-0.0048	0.0057	-0.012
15	2045	210	-567.5	SLU 27	-0.0054	0	-0.09875	0	0.007	0
15	2045	210	-567.5	SLU 28	0.00005	-0.01303	-0.08228	-0.008	-0.0001	-0.02
15	2045	210	-567.5	SLU 29	0.00095	-0.01303	-0.07337	-0.008	-0.0012	-0.02
15	2045	210	-567.5	SLU 30	-0.00391	0	-0.0839	0	0.0051	0
15	2045	210	-567.5	SLU 31	-0.00064	-0.00782	-0.07402	-0.0048	0.0008	-0.012
15	2045	210	-567.5	SLU 32	-0.00144	-0.01303	-0.08722	-0.008	0.0019	-0.02
15	2045	210	-567.5	SLU 33	-0.00054	-0.01303	-0.07831	-0.008	0.0007	-0.02
15	2045	210	-567.5	SLU 34	-0.00541	0	-0.08884	0	0.007	0
15	2045	210	-567.5	SLU 35	-0.00213	-0.00782	-0.07896	-0.0048	0.0028	-0.012
15	2045	210	-567.5	SLU 36	-0.0084	0	-0.10863	0	0.0109	0
15	2045	210	-567.5	SLU 37	-0.00512	-0.00782	-0.09875	-0.0048	0.0067	-0.012
15	2045	210	-567.5	SLU 38	-0.0075	0	-0.09972	0	0.0097	0
15	2045	210	-567.5	SLU 39	-0.00422	-0.00782	-0.08984	-0.0048	0.0055	-0.012
15	2045	210	-567.5	SLU 40	-0.00678	0	-0.10337	0	0.0088	0
15	2045	210	-567.5	SLU 41	-0.00132	-0.01303	-0.0869	-0.008	0.0017	-0.02
15	2045	210	-567.5	SLU 42	-0.00043	-0.01303	-0.07799	-0.008	0.0006	-0.02
15	2045	210	-567.5	SLU 43	-0.00529	0	-0.08852	0	0.0069	0
15	2045	210	-567.5	SLU 44	-0.00201	-0.00782	-0.07864	-0.0048	0.0026	-0.012
15	2045	210	-567.5	SLU 45	-0.00282	-0.01303	-0.09185	-0.008	0.0037	-0.02

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
15	2045	210	-567.5	SLU 46	-0.00192	-0.01303	-0.08294	-0.008	0.0025	-0.02
15	2045	210	-567.5	SLU 47	-0.00679	0	-0.09346	0	0.0088	0
15	2045	210	-567.5	SLU 48	-0.00351	-0.00782	-0.08358	-0.0048	0.0046	-0.012
15	2045	210	-567.5	SLU 49	-0.00977	0	-0.11325	0	0.0127	0
15	2045	210	-567.5	SLU 50	-0.0065	-0.00782	-0.10337	-0.0048	0.0084	-0.012
15	2045	210	-567.5	SLU 51	-0.00888	0	-0.10434	0	0.0115	0
15	2045	210	-567.5	SLU 52	-0.0056	-0.00782	-0.09446	-0.0048	0.0073	-0.012
15	2045	210	-567.5	SLE RA 1	-0.00508	0	-0.07904	0	0.0066	0
15	2045	210	-567.5	SLE RA 2	-0.00144	-0.00868	-0.06806	-0.0053	0.0019	-0.0133
15	2045	210	-567.5	SLE RA 3	-0.00084	-0.00869	-0.06212	-0.0053	0.0011	-0.0133
15	2045	210	-567.5	SLE RA 4	-0.00408	0	-0.06914	0	0.0053	0
15	2045	210	-567.5	SLE RA 5	-0.0019	-0.00521	-0.06255	-0.0032	0.0025	-0.008
15	2045	210	-567.5	SLE RA 6	-0.00243	-0.00868	-0.07136	-0.0053	0.0032	-0.0133
15	2045	210	-567.5	SLE RA 7	-0.00184	-0.00869	-0.06542	-0.0053	0.0024	-0.0133
15	2045	210	-567.5	SLE RA 8	-0.00508	0	-0.07244	0	0.0066	0
15	2045	210	-567.5	SLE RA 9	-0.00289	-0.00521	-0.06585	-0.0032	0.0038	-0.008
15	2045	210	-567.5	SLE RA 10	-0.00707	0	-0.08563	0	0.0092	0
15	2045	210	-567.5	SLE RA 11	-0.00489	-0.00521	-0.07904	-0.0032	0.0063	-0.008
15	2045	210	-567.5	SLE RA 12	-0.00647	0	-0.07969	0	0.0084	0
15	2045	210	-567.5	SLE RA 13	-0.00429	-0.00521	-0.0731	-0.0032	0.0056	-0.008
15	2045	210	-567.5	SLE FR 1	-0.00508	0	-0.07904	0	0.0066	0
15	2045	210	-567.5	SLE FR 2	-0.00435	-0.00174	-0.07684	-0.0011	0.0056	-0.0027
15	2045	210	-567.5	SLE FR 3	-0.00488	0	-0.07706	0	0.0063	0
15	2045	210	-567.5	SLE FR 4	-0.00547	0	-0.08036	0	0.0071	0
15	2045	210	-567.5	SLE QP 1	-0.00508	0	-0.07904	0	0.0066	0
15	2045	210	-567.5	SLD 1	-0.00006	0.00714	-0.07708	0.0034	0.0001	0.011
15	2045	210	-567.5	SLD 2	-0.00006	0.00714	-0.07708	0.0034	0.0001	0.011
15	2045	210	-567.5	SLD 3	0.0021	-0.00715	-0.07611	-0.0034	-0.0027	-0.011
15	2045	210	-567.5	SLD 4	0.0021	-0.00715	-0.07611	-0.0034	-0.0027	-0.011
15	2045	210	-567.5	SLD 5	-0.00684	0.02379	-0.07993	0.0113	0.0089	0.0366
15	2045	210	-567.5	SLD 6	-0.00684	0.02379	-0.07993	0.0113	0.0089	0.0366
15	2045	210	-567.5	SLD 7	0.00035	-0.02384	-0.07668	-0.0113	-0.0005	-0.0367
15	2045	210	-567.5	SLD 8	0.00035	-0.02384	-0.07668	-0.0113	-0.0005	-0.0367
15	2045	210	-567.5	SLD 9	-0.0105	0.02379	-0.0814	0.0113	0.0136	0.0366
15	2045	210	-567.5	SLD 10	-0.0105	0.02379	-0.0814	0.0113	0.0136	0.0366
15	2045	210	-567.5	SLD 11	-0.00331	-0.02383	-0.07815	-0.0113	0.0043	-0.0367
15	2045	210	-567.5	SLD 12	-0.00331	-0.02383	-0.07815	-0.0113	0.0043	-0.0367
15	2045	210	-567.5	SLD 13	-0.01225	0.00714	-0.08197	0.0034	0.0159	0.011
15	2045	210	-567.5	SLD 14	-0.01225	0.00714	-0.08197	0.0034	0.0159	0.011
15	2045	210	-567.5	SLD 15	-0.01009	-0.00715	-0.081	-0.0034	0.0131	-0.011
15	2045	210	-567.5	SLD 16	-0.01009	-0.00715	-0.081	-0.0034	0.0131	-0.011
15	2045	210	-567.5	SLV 1	0.00781	0.01834	-0.07402	0.0087	-0.0101	0.0282
15	2045	210	-567.5	SLV 2	0.00781	0.01834	-0.07402	0.0087	-0.0101	0.0282
15	2045	210	-567.5	SLV 3	0.01335	-0.01837	-0.07151	-0.0087	-0.0173	-0.0283
15	2045	210	-567.5	SLV 4	0.01335	-0.01837	-0.07151	-0.0087	-0.0173	-0.0283
15	2045	210	-567.5	SLV 5	-0.00961	0.06111	-0.08133	0.029	0.0125	0.0939
15	2045	210	-567.5	SLV 6	-0.00961	0.06111	-0.08133	0.029	0.0125	0.0939
15	2045	210	-567.5	SLV 7	0.00886	-0.06123	-0.07298	-0.029	-0.0115	-0.0944
15	2045	210	-567.5	SLV 8	0.00886	-0.06123	-0.07298	-0.029	-0.0115	-0.0944
15	2045	210	-567.5	SLV 9	-0.019	0.06111	-0.0851	0.029	0.0247	0.0939
15	2045	210	-567.5	SLV 10	-0.019	0.06111	-0.0851	0.029	0.0247	0.0939
15	2045	210	-567.5	SLV 11	-0.00054	-0.06123	-0.07674	-0.029	0.0007	-0.0944
15	2045	210	-567.5	SLV 12	-0.00054	-0.06123	-0.07674	-0.029	0.0007	-0.0944
15	2045	210	-567.5	SLV 13	-0.0235	0.01833	-0.08657	0.0087	0.0305	0.0282
15	2045	210	-567.5	SLV 14	-0.0235	0.01833	-0.08657	0.0087	0.0305	0.0282
15	2045	210	-567.5	SLV 15	-0.01796	-0.01837	-0.08406	-0.0087	0.0233	-0.0283
15	2045	210	-567.5	SLV 16	-0.01796	-0.01837	-0.08406	-0.0087	0.0233	-0.0283
15	2045	210	-567.5	SLV FO 1	0.00781	0.01834	-0.07402	0.0087	-0.0101	0.0282
15	2045	210	-567.5	SLV FO 2	0.00781	0.01834	-0.07402	0.0087	-0.0101	0.0282
15	2045	210	-567.5	SLV FO 3	0.01335	-0.01837	-0.07151	-0.0087	-0.0173	-0.0283
15	2045	210	-567.5	SLV FO 4	0.01335	-0.01837	-0.07151	-0.0087	-0.0173	-0.0283
15	2045	210	-567.5	SLV FO 5	-0.00961	0.06111	-0.08133	0.029	0.0125	0.0939
15	2045	210	-567.5	SLV FO 6	-0.00961	0.06111	-0.08133	0.029	0.0125	0.0939
15	2045	210	-567.5	SLV FO 7	0.00886	-0.06123	-0.07298	-0.029	-0.0115	-0.0944
15	2045	210	-567.5	SLV FO 8	0.00886	-0.06123	-0.07298	-0.029	-0.0115	-0.0944
15	2045	210	-567.5	SLV FO 9	-0.019	0.06111	-0.0851	0.029	0.0247	0.0939
15	2045	210	-567.5	SLV FO 10	-0.019	0.06111	-0.0851	0.029	0.0247	0.0939
15	2045	210	-567.5	SLV FO 11	-0.00054	-0.06123	-0.07674	-0.029	0.0007	-0.0944
15	2045	210	-567.5	SLV FO 12	-0.00054	-0.06123	-0.07674	-0.029	0.0007	-0.0944
15	2045	210	-567.5	SLV FO 13	-0.0235	0.01833	-0.08657	0.0087	0.0305	0.0282
15	2045	210	-567.5	SLV FO 14	-0.0235	0.01833	-0.08657	0.0087	0.0305	0.0282
15	2045	210	-567.5	SLV FO 15	-0.01796	-0.01837	-0.08406	-0.0087	0.0233	-0.0283
15	2045	210	-567.5	SLV FO 16	-0.01796	-0.01837	-0.08406	-0.0087	0.0233	-0.0283
16	575	710	-567.5	SLU 1	0.00481	0	-0.08467	0	-0.0062	0
16	575	710	-567.5	SLU 2	-0.00548	-0.00908	-0.04369	-0.004	0.0071	-0.0194
16	575	710	-567.5	SLU 3	-0.0139	-0.00908	-0.01877	-0.004	0.0181	-0.0194
16	575	710	-567.5	SLU 4	-0.00923	0	-0.04312	0	0.012	0
16	575	710	-567.5	SLU 5	-0.0154	-0.00545	-0.01854	-0.0024	0.02	-0.0117
16	575	710	-567.5	SLU 6	-0.00229	-0.00909	-0.05605	-0.004	0.003	-0.0194
16	575	710	-567.5	SLU 7	-0.01072	-0.00908	-0.03112	-0.004	0.0139	-0.0194
16	575	710	-567.5	SLU 8	-0.00605	0	-0.05548	0	0.0079	0
16	575	710	-567.5	SLU 9	-0.01222	-0.00545	-0.03089	-0.0024	0.0159	-0.0117
16	575	710	-567.5	SLU 10	0.01117	0	-0.10938	0	-0.0145	0
16	575	710	-567.5	SLU 11	0.005	-0.00545	-0.08479	-0.0024	-0.0065	-0.0117
16	575	710	-567.5	SLU 12	0.00275	0	-0.08445	0	-0.0036	0
16	575	710	-567.5	SLU 13	-0.00342	-0.00545	-0.05987	-0.0024	0.0044	-0.0117
16	575	710	-567.5	SLU 14	0.00775	0	-0.09638	0	-0.0101	0
16	575	710	-567.5	SLU 15	-0.00254	-0.00909	-0.0554	-0.004	0.0033	-0.0194
16	575	710	-567.5	SLU 16	-0.01096	-0.00908	-0.03047	-0.004	0.0142	-0.0194
16	575	710	-567.5	SLU 17	-0.00629	0	-0.05483	0	0.0082	0
16	575	710	-567.5	SLU 18	-0.01247	-0.00545	-0.03025	-0.0024	0.0162	-0.0117
16	575	710	-567.5	SLU 19	0.00065	-0.00909	-0.06776	-0.004	-0.0008	-0.0194
16	575	710	-567.5	SLU 20	-0.00778	-0.00908	-0.04283	-0.004	0.0101	-0.0194
16	575	710	-567.5	SLU 21	-0.00311	0	-0.06719	0	0.004	0
16	575	710	-567.5	SLU 22	-0.00928	-0.00545	-0.0426	-0.0024	0.0121	-0.0117
16	575	710	-567.5	SLU 23	0.01411	0	-0.12109	0	-0.0183	0
16	575	710	-567.5	SLU 24	0.00794	-0.00545	-0.0965	-0.0024	-0.0103	-0.0117
16	575	710	-567.5	SLU 25	0.00569	0	-0.09616	0	-0.0074	0
16	575	710	-567.5	SLU 26	-0.00048	-0.00545	-0.07157	-0.0024	0.0006	-0.0117
16	575	710	-567.5	SLU 27	0.00625	0	-0.11007	0	-0.0081	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
16	575	710	-567.5	SLU 28	-0.00403	-0.00908	-0.06909	-0.004	0.0052	-0.0194
16	575	710	-567.5	SLU 29	-0.01246	-0.00908	-0.04417	-0.004	0.0162	-0.0194
16	575	710	-567.5	SLU 30	-0.00779	0	-0.06852	0	0.0101	0
16	575	710	-567.5	SLU 31	-0.01396	-0.00545	-0.04394	-0.0024	0.0181	-0.0117
16	575	710	-567.5	SLU 32	-0.00085	-0.00909	-0.08145	-0.004	0.0011	-0.0194
16	575	710	-567.5	SLU 33	-0.00928	-0.00908	-0.05652	-0.004	0.012	-0.0194
16	575	710	-567.5	SLU 34	-0.00461	0	-0.08088	0	0.006	0
16	575	710	-567.5	SLU 35	-0.01078	-0.00545	-0.05629	-0.0024	0.014	-0.0117
16	575	710	-567.5	SLU 36	0.01262	0	-0.13478	0	-0.0164	0
16	575	710	-567.5	SLU 37	0.00645	-0.00545	-0.1102	-0.0024	-0.0084	-0.0117
16	575	710	-567.5	SLU 38	0.00419	0	-0.10985	0	-0.0054	0
16	575	710	-567.5	SLU 39	-0.00198	-0.00545	-0.08527	-0.0024	0.0026	-0.0117
16	575	710	-567.5	SLU 40	0.00919	0	-0.12178	0	-0.0119	0
16	575	710	-567.5	SLU 41	-0.00109	-0.00909	-0.0808	-0.004	0.0014	-0.0194
16	575	710	-567.5	SLU 42	-0.00952	-0.00908	-0.05587	-0.004	0.0124	-0.0194
16	575	710	-567.5	SLU 43	-0.00485	0	-0.08023	0	0.0063	0
16	575	710	-567.5	SLU 44	-0.01102	-0.00545	-0.05565	-0.0024	0.0143	-0.0117
16	575	710	-567.5	SLU 45	0.00209	-0.00909	-0.09316	-0.004	-0.0027	-0.0195
16	575	710	-567.5	SLU 46	-0.00634	-0.00908	-0.06823	-0.004	0.0082	-0.0194
16	575	710	-567.5	SLU 47	-0.00167	0	-0.09259	0	0.0022	0
16	575	710	-567.5	SLU 48	-0.00784	-0.00545	-0.068	-0.0024	0.0102	-0.0117
16	575	710	-567.5	SLU 49	0.01556	0	-0.14649	0	-0.0202	0
16	575	710	-567.5	SLU 50	0.00939	-0.00545	-0.1219	-0.0024	-0.0122	-0.0117
16	575	710	-567.5	SLU 51	0.00713	0	-0.12156	0	-0.0093	0
16	575	710	-567.5	SLU 52	0.00096	-0.00545	-0.09698	-0.0024	-0.0012	-0.0117
16	575	710	-567.5	SLE RA 1	0.00677	0	-0.09247	0	-0.0088	0
16	575	710	-567.5	SLE RA 2	-0.00009	-0.00606	-0.06516	-0.0027	0.0001	-0.013
16	575	710	-567.5	SLE RA 3	-0.00571	-0.00605	-0.04854	-0.0027	0.0074	-0.013
16	575	710	-567.5	SLE RA 4	-0.00259	0	-0.06478	0	0.0034	0
16	575	710	-567.5	SLE RA 5	-0.00671	-0.00363	-0.04839	-0.0016	0.0087	-0.0078
16	575	710	-567.5	SLE RA 6	0.00203	-0.00606	-0.07339	-0.0027	-0.0026	-0.013
16	575	710	-567.5	SLE RA 7	-0.00358	-0.00606	-0.05678	-0.0027	0.0047	-0.013
16	575	710	-567.5	SLE RA 8	-0.00047	0	-0.07301	0	0.0006	0
16	575	710	-567.5	SLE RA 9	-0.00459	-0.00363	-0.05662	-0.0016	0.006	-0.0078
16	575	710	-567.5	SLE RA 10	0.01101	0	-0.10895	0	-0.0143	0
16	575	710	-567.5	SLE RA 11	0.0069	-0.00364	-0.09256	-0.0016	-0.009	-0.0078
16	575	710	-567.5	SLE RA 12	0.0054	0	-0.09233	0	-0.007	0
16	575	710	-567.5	SLE RA 13	0.00128	-0.00363	-0.07594	-0.0016	-0.0017	-0.0078
16	575	710	-567.5	SLE FR 1	0.00677	0	-0.09247	0	-0.0088	0
16	575	710	-567.5	SLE FR 2	0.0054	-0.00121	-0.08701	-0.0005	-0.007	-0.0026
16	575	710	-567.5	SLE FR 3	0.0049	0	-0.08693	0	-0.0064	0
16	575	710	-567.5	SLE FR 4	0.00762	0	-0.09577	0	-0.0099	0
16	575	710	-567.5	SLE QP 1	0.00677	0	-0.09247	0	-0.0088	0
16	575	710	-567.5	SLD 1	0.01093	0.00764	-0.0951	0.0033	-0.0142	0.0192
16	575	710	-567.5	SLD 2	0.01093	0.00764	-0.0951	0.0033	-0.0142	0.0192
16	575	710	-567.5	SLD 3	0.01093	-0.00764	-0.0951	-0.0033	-0.0142	-0.0192
16	575	710	-567.5	SLD 4	0.01093	-0.00764	-0.0951	-0.0033	-0.0142	-0.0192
16	575	710	-567.5	SLD 5	0.00802	0.02548	-0.09326	0.0111	-0.0104	0.064
16	575	710	-567.5	SLD 6	0.00802	0.02548	-0.09326	0.0111	-0.0104	0.064
16	575	710	-567.5	SLD 7	0.00802	-0.02548	-0.09326	-0.0111	-0.0104	-0.064
16	575	710	-567.5	SLD 8	0.00802	-0.02548	-0.09326	-0.0111	-0.0104	-0.064
16	575	710	-567.5	SLD 9	0.00551	0.02548	-0.09169	0.0111	-0.0072	0.064
16	575	710	-567.5	SLD 10	0.00551	0.02548	-0.09169	0.0111	-0.0072	0.064
16	575	710	-567.5	SLD 11	0.00551	-0.02548	-0.09169	-0.0111	-0.0072	-0.064
16	575	710	-567.5	SLD 12	0.00551	-0.02548	-0.09169	-0.0111	-0.0072	-0.064
16	575	710	-567.5	SLD 13	0.0026	0.00764	-0.08985	0.0033	-0.0034	0.0192
16	575	710	-567.5	SLD 14	0.0026	0.00764	-0.08985	0.0033	-0.0034	0.0192
16	575	710	-567.5	SLD 15	0.0026	-0.00764	-0.08985	-0.0033	-0.0034	-0.0192
16	575	710	-567.5	SLD 16	0.0026	-0.00764	-0.08985	-0.0033	-0.0034	-0.0192
16	575	710	-567.5	SLV 1	0.01747	0.01963	-0.09921	0.0086	-0.0227	0.0494
16	575	710	-567.5	SLV 2	0.01747	0.01963	-0.09921	0.0086	-0.0227	0.0494
16	575	710	-567.5	SLV 3	0.01747	-0.01963	-0.09921	-0.0086	-0.0227	-0.0494
16	575	710	-567.5	SLV 4	0.01747	-0.01963	-0.09921	-0.0086	-0.0227	-0.0494
16	575	710	-567.5	SLV 5	0.00997	0.06544	-0.0945	0.0286	-0.013	0.1645
16	575	710	-567.5	SLV 6	0.00997	0.06544	-0.0945	0.0286	-0.013	0.1645
16	575	710	-567.5	SLV 7	0.00997	-0.06544	-0.0945	-0.0286	-0.013	-0.1645
16	575	710	-567.5	SLV 8	0.00997	-0.06544	-0.0945	-0.0286	-0.013	-0.1645
16	575	710	-567.5	SLV 9	0.00355	0.06544	-0.09045	0.0286	-0.0046	0.1645
16	575	710	-567.5	SLV 10	0.00355	0.06544	-0.09045	0.0286	-0.0046	0.1645
16	575	710	-567.5	SLV 11	0.00355	-0.06544	-0.09045	-0.0286	-0.0046	-0.1645
16	575	710	-567.5	SLV 12	0.00355	-0.06544	-0.09045	-0.0286	-0.0046	-0.1645
16	575	710	-567.5	SLV 13	-0.00394	0.01963	-0.08573	0.0086	0.0051	0.0494
16	575	710	-567.5	SLV 14	-0.00394	0.01963	-0.08573	0.0086	0.0051	0.0494
16	575	710	-567.5	SLV 15	-0.00394	-0.01963	-0.08573	-0.0086	0.0051	-0.0494
16	575	710	-567.5	SLV 16	-0.00394	-0.01963	-0.08573	-0.0086	0.0051	-0.0494
16	575	710	-567.5	SLV FO 1	0.01747	0.01963	-0.09921	0.0086	-0.0227	0.0494
16	575	710	-567.5	SLV FO 2	0.01747	0.01963	-0.09921	0.0086	-0.0227	0.0494
16	575	710	-567.5	SLV FO 3	0.01747	-0.01963	-0.09921	-0.0086	-0.0227	-0.0494
16	575	710	-567.5	SLV FO 4	0.01747	-0.01963	-0.09921	-0.0086	-0.0227	-0.0494
16	575	710	-567.5	SLV FO 5	0.00997	0.06544	-0.0945	0.0286	-0.013	0.1645
16	575	710	-567.5	SLV FO 6	0.00997	0.06544	-0.0945	0.0286	-0.013	0.1645
16	575	710	-567.5	SLV FO 7	0.00997	-0.06544	-0.0945	-0.0286	-0.013	-0.1645
16	575	710	-567.5	SLV FO 8	0.00997	-0.06544	-0.0945	-0.0286	-0.013	-0.1645
16	575	710	-567.5	SLV FO 9	0.00355	0.06544	-0.09045	0.0286	-0.0046	0.1645
16	575	710	-567.5	SLV FO 10	0.00355	0.06544	-0.09045	0.0286	-0.0046	0.1645
16	575	710	-567.5	SLV FO 11	0.00355	-0.06544	-0.09045	-0.0286	-0.0046	-0.1645
16	575	710	-567.5	SLV FO 12	0.00355	-0.06544	-0.09045	-0.0286	-0.0046	-0.1645
16	575	710	-567.5	SLV FO 13	-0.00394	0.01963	-0.08573	0.0086	0.0051	0.0494
16	575	710	-567.5	SLV FO 14	-0.00394	0.01963	-0.08573	0.0086	0.0051	0.0494
16	575	710	-567.5	SLV FO 15	-0.00394	-0.01963	-0.08573	-0.0086	0.0051	-0.0494
16	575	710	-567.5	SLV FO 16	-0.00394	-0.01963	-0.08573	-0.0086	0.0051	-0.0494
17	2045	710	-567.5	SLU 1	-0.00525	0	-0.0796	0	0.0068	0
17	2045	710	-567.5	SLU 2	0.00727	-0.01082	-0.04595	-0.0051	-0.0094	-0.0117
17	2045	710	-567.5	SLU 3	0.01246	-0.01082	-0.02664	-0.0051	-0.0162	-0.0117
17	2045	710	-567.5	SLU 4	0.0034	0	-0.04741	0	-0.0044	0
17	2045	710	-567.5	SLU 5	0.01091	-0.0065	-0.02723	-0.0031	-0.0142	-0.007
17	2045	710	-567.5	SLU 6	0.00342	-0.01082	-0.05623	-0.0051	-0.0044	-0.0117
17	2045	710	-567.5	SLU 7	0.00861	-0.01082	-0.03692	-0.0051	-0.0112	-0.0117
17	2045	710	-567.5	SLU 8	-0.00045	0	-0.05769	0	0.0006	0
17	2045	710	-567.5	SLU 9	0.00706	-0.0065	-0.0375	-0.0031	-0.0092	-0.007
17	2045	710	-567.5	SLU 10	-0.01295	0	-0.10014	0	0.0168	0
17	2045	710	-567.5	SLU 11	-0.00544	-0.00649	-0.07996	-0.0031	0.0071	-0.007
17	2045	710	-567.5	SLU 12	-0.00777	0	-0.08083	0	0.0101	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
17	2045	710	-567.5	SLU 13	-0.00025	-0.00649	-0.06065	-0.0031	0.0003	-0.007
17	2045	710	-567.5	SLU 14	-0.00883	0	-0.08921	0	0.0115	0
17	2045	710	-567.5	SLU 15	0.00369	-0.01082	-0.05557	-0.0051	-0.0048	-0.0117
17	2045	710	-567.5	SLU 16	0.00888	-0.01082	-0.03626	-0.0051	-0.0115	-0.0117
17	2045	710	-567.5	SLU 17	-0.00018	0	-0.05703	0	0.0002	0
17	2045	710	-567.5	SLU 18	0.00733	-0.0065	-0.03684	-0.0031	-0.0095	-0.007
17	2045	710	-567.5	SLU 19	-0.00016	-0.01082	-0.06584	-0.0051	0.0002	-0.0117
17	2045	710	-567.5	SLU 20	0.00503	-0.01082	-0.04653	-0.0051	-0.0065	-0.0117
17	2045	710	-567.5	SLU 21	-0.00403	0	-0.0673	0	0.0052	0
17	2045	710	-567.5	SLU 22	0.00348	-0.0065	-0.04711	-0.0031	-0.0045	-0.007
17	2045	710	-567.5	SLU 23	-0.01653	0	-0.10976	0	0.0215	0
17	2045	710	-567.5	SLU 24	-0.00902	-0.00649	-0.08957	-0.0031	0.0117	-0.007
17	2045	710	-567.5	SLU 25	-0.01134	0	-0.09045	0	0.0147	0
17	2045	710	-567.5	SLU 26	-0.00383	-0.00649	-0.07026	-0.0031	0.005	-0.007
17	2045	710	-567.5	SLU 27	-0.00683	0	-0.10348	0	0.0089	0
17	2045	710	-567.5	SLU 28	0.00569	-0.01082	-0.06983	-0.0051	-0.0074	-0.0117
17	2045	710	-567.5	SLU 29	0.01088	-0.01082	-0.05052	-0.0051	-0.0141	-0.0117
17	2045	710	-567.5	SLU 30	0.00182	0	-0.07129	0	-0.0024	0
17	2045	710	-567.5	SLU 31	0.00933	-0.0065	-0.05111	-0.0031	-0.0121	-0.007
17	2045	710	-567.5	SLU 32	0.00184	-0.01082	-0.08011	-0.0051	-0.0024	-0.0117
17	2045	710	-567.5	SLU 33	0.00703	-0.01082	-0.0608	-0.0051	-0.0091	-0.0117
17	2045	710	-567.5	SLU 34	-0.00203	0	-0.08157	0	0.0026	0
17	2045	710	-567.5	SLU 35	0.00548	-0.0065	-0.06138	-0.0031	-0.0071	-0.007
17	2045	710	-567.5	SLU 36	-0.01453	0	-0.12402	0	0.0189	0
17	2045	710	-567.5	SLU 37	-0.00702	-0.00649	-0.10384	-0.0031	0.0091	-0.007
17	2045	710	-567.5	SLU 38	-0.00934	0	-0.10471	0	0.0121	0
17	2045	710	-567.5	SLU 39	-0.00183	-0.00649	-0.08453	-0.0031	0.0024	-0.007
17	2045	710	-567.5	SLU 40	-0.0104	0	-0.11309	0	0.0135	0
17	2045	710	-567.5	SLU 41	0.00212	-0.01082	-0.07945	-0.0051	-0.0027	-0.0117
17	2045	710	-567.5	SLU 42	0.00731	-0.01082	-0.06014	-0.0051	-0.0095	-0.0117
17	2045	710	-567.5	SLU 43	-0.00175	0	-0.08091	0	0.0023	0
17	2045	710	-567.5	SLU 44	0.00576	-0.0065	-0.06072	-0.0031	-0.0075	-0.007
17	2045	710	-567.5	SLU 45	-0.00173	-0.01082	-0.08972	-0.0051	0.0023	-0.0117
17	2045	710	-567.5	SLU 46	0.00345	-0.01082	-0.07041	-0.0051	-0.0045	-0.0117
17	2045	710	-567.5	SLU 47	-0.00561	0	-0.09118	0	0.0073	0
17	2045	710	-567.5	SLU 48	0.00191	-0.0065	-0.07099	-0.0031	-0.0025	-0.007
17	2045	710	-567.5	SLU 49	-0.01811	0	-0.13364	0	0.0235	0
17	2045	710	-567.5	SLU 50	-0.01059	-0.00649	-0.11345	-0.0031	0.0138	-0.007
17	2045	710	-567.5	SLU 51	-0.01292	0	-0.11433	0	0.0168	0
17	2045	710	-567.5	SLU 52	-0.00541	-0.00649	-0.09414	-0.0031	0.007	-0.007
17	2045	710	-567.5	SLE RA 1	-0.00764	0	-0.08601	0	0.0099	0
17	2045	710	-567.5	SLE RA 2	0.00071	-0.00721	-0.06358	-0.0034	-0.0009	-0.0078
17	2045	710	-567.5	SLE RA 3	0.00417	-0.00722	-0.0507	-0.0034	-0.0054	-0.0078
17	2045	710	-567.5	SLE RA 4	-0.00187	0	-0.06455	0	0.0024	0
17	2045	710	-567.5	SLE RA 5	0.00314	-0.00433	-0.05109	-0.0021	-0.0041	-0.0047
17	2045	710	-567.5	SLE RA 6	-0.00186	-0.00721	-0.07043	-0.0034	0.0024	-0.0078
17	2045	710	-567.5	SLE RA 7	0.0016	-0.00721	-0.05755	-0.0034	-0.0021	-0.0078
17	2045	710	-567.5	SLE RA 8	-0.00444	0	-0.0714	0	0.0058	0
17	2045	710	-567.5	SLE RA 9	0.00057	-0.00433	-0.05794	-0.0021	-0.0007	-0.0047
17	2045	710	-567.5	SLE RA 10	-0.01277	0	-0.0997	0	0.0166	0
17	2045	710	-567.5	SLE RA 11	-0.00776	-0.00433	-0.08625	-0.0021	0.0101	-0.0047
17	2045	710	-567.5	SLE RA 12	-0.00931	0	-0.08683	0	0.0121	0
17	2045	710	-567.5	SLE RA 13	-0.0043	-0.00433	-0.07337	-0.0021	0.0056	-0.0047
17	2045	710	-567.5	SLE FR 1	-0.00764	0	-0.08601	0	0.0099	0
17	2045	710	-567.5	SLE FR 2	-0.00597	-0.00144	-0.08152	-0.0007	0.0077	-0.0016
17	2045	710	-567.5	SLE FR 3	-0.00648	0	-0.08172	0	0.0084	0
17	2045	710	-567.5	SLE FR 4	-0.00866	0	-0.08875	0	0.0113	0
17	2045	710	-567.5	SLE QP 1	-0.00764	0	-0.08601	0	0.0099	0
17	2045	710	-567.5	SLD 1	-0.00102	0.00714	-0.08344	0.0034	0.0013	0.011
17	2045	710	-567.5	SLD 2	-0.00102	0.00714	-0.08344	0.0034	0.0013	0.011
17	2045	710	-567.5	SLD 3	-0.00102	-0.00714	-0.08344	-0.0034	0.0013	-0.011
17	2045	710	-567.5	SLD 4	-0.00102	-0.00714	-0.08344	-0.0034	0.0013	-0.011
17	2045	710	-567.5	SLD 5	-0.00565	0.02381	-0.08524	0.0113	0.0073	0.0366
17	2045	710	-567.5	SLD 6	-0.00565	0.02381	-0.08524	0.0113	0.0073	0.0366
17	2045	710	-567.5	SLD 7	-0.00565	-0.02381	-0.08524	-0.0113	0.0073	-0.0366
17	2045	710	-567.5	SLD 8	-0.00565	-0.02381	-0.08524	-0.0113	0.0073	-0.0366
17	2045	710	-567.5	SLD 9	-0.00962	0.02381	-0.08678	0.0113	0.0125	0.0366
17	2045	710	-567.5	SLD 10	-0.00962	0.02381	-0.08678	0.0113	0.0125	0.0366
17	2045	710	-567.5	SLD 11	-0.00962	-0.02381	-0.08678	-0.0113	0.0125	-0.0366
17	2045	710	-567.5	SLD 12	-0.00962	-0.02381	-0.08678	-0.0113	0.0125	-0.0366
17	2045	710	-567.5	SLD 13	-0.01426	0.00714	-0.08858	0.0034	0.0185	0.011
17	2045	710	-567.5	SLD 14	-0.01426	0.00714	-0.08858	0.0034	0.0185	0.011
17	2045	710	-567.5	SLD 15	-0.01426	-0.00714	-0.08858	-0.0034	0.0185	-0.011
17	2045	710	-567.5	SLD 16	-0.01426	-0.00714	-0.08858	-0.0034	0.0185	-0.011
17	2045	710	-567.5	SLV 1	0.00937	0.01835	-0.0794	0.0087	-0.0122	0.0282
17	2045	710	-567.5	SLV 2	0.00937	0.01835	-0.0794	0.0087	-0.0122	0.0282
17	2045	710	-567.5	SLV 3	0.00937	-0.01835	-0.0794	-0.0087	-0.0122	-0.0282
17	2045	710	-567.5	SLV 4	0.00937	-0.01835	-0.0794	-0.0087	-0.0122	-0.0282
17	2045	710	-567.5	SLV 5	-0.00254	0.06118	-0.08403	0.029	0.0033	0.0941
17	2045	710	-567.5	SLV 6	-0.00254	0.06118	-0.08403	0.029	0.0033	0.0941
17	2045	710	-567.5	SLV 7	-0.00254	-0.06118	-0.08403	-0.029	0.0033	-0.0941
17	2045	710	-567.5	SLV 8	-0.00254	-0.06118	-0.08403	-0.029	0.0033	-0.0941
17	2045	710	-567.5	SLV 9	-0.01274	0.06118	-0.08799	0.029	0.0165	0.0941
17	2045	710	-567.5	SLV 10	-0.01274	0.06118	-0.08799	0.029	0.0165	0.0941
17	2045	710	-567.5	SLV 11	-0.01274	-0.06118	-0.08799	-0.029	0.0165	-0.0941
17	2045	710	-567.5	SLV 12	-0.01274	-0.06118	-0.08799	-0.029	0.0165	-0.0941
17	2045	710	-567.5	SLV 13	-0.02465	0.01835	-0.09262	0.0087	0.032	0.0282
17	2045	710	-567.5	SLV 14	-0.02465	0.01835	-0.09262	0.0087	0.032	0.0282
17	2045	710	-567.5	SLV 15	-0.02465	-0.01835	-0.09262	-0.0087	0.032	-0.0282
17	2045	710	-567.5	SLV 16	-0.02465	-0.01835	-0.09262	-0.0087	0.032	-0.0282
17	2045	710	-567.5	SLV FO 1	0.00937	0.01835	-0.0794	0.0087	-0.0122	0.0282
17	2045	710	-567.5	SLV FO 2	0.00937	0.01835	-0.0794	0.0087	-0.0122	0.0282
17	2045	710	-567.5	SLV FO 3	0.00937	-0.01835	-0.0794	-0.0087	-0.0122	-0.0282
17	2045	710	-567.5	SLV FO 4	0.00937	-0.01835	-0.0794	-0.0087	-0.0122	-0.0282
17	2045	710	-567.5	SLV FO 5	-0.00254	0.06118	-0.08403	0.029	0.0033	0.0941
17	2045	710	-567.5	SLV FO 6	-0.00254	0.06118	-0.08403	0.029	0.0033	0.0941
17	2045	710	-567.5	SLV FO 7	-0.00254	-0.06118	-0.08403	-0.029	0.0033	-0.0941
17	2045	710	-567.5	SLV FO 8	-0.00254	-0.06118	-0.08403	-0.029	0.0033	-0.0941
17	2045	710	-567.5	SLV FO 9	-0.01274	0.06118	-0.08799	0.029	0.0165	0.0941
17	2045	710	-567.5	SLV FO 10	-0.01274	0.06118	-0.08799	0.029	0.0165	0.0941

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
17	2045	710	-567.5	SLV FO 11	-0.01274	-0.06118	-0.08799	-0.029	0.0165	-0.0941
17	2045	710	-567.5	SLV FO 12	-0.01274	-0.06118	-0.08799	-0.029	0.0165	-0.0941
17	2045	710	-567.5	SLV FO 13	-0.02465	0.01835	-0.09262	0.0087	0.032	0.0282
17	2045	710	-567.5	SLV FO 14	-0.02465	0.01835	-0.09262	0.0087	0.032	0.0282
17	2045	710	-567.5	SLV FO 15	-0.02465	-0.01835	-0.09262	-0.0087	0.032	-0.0282
17	2045	710	-567.5	SLV FO 16	-0.02465	-0.01835	-0.09262	-0.0087	0.032	-0.0282
18	575	1210	-567.5	SLU 1	0.00438	0	-0.08067	0	-0.0057	0
18	575	1210	-567.5	SLU 2	-0.00189	-0.00908	-0.0596	-0.004	0.0025	-0.0194
18	575	1210	-567.5	SLU 3	-0.00744	-0.00908	-0.04644	-0.004	0.0097	-0.0194
18	575	1210	-567.5	SLU 4	-0.00488	0	-0.05873	0	0.0063	0
18	575	1210	-567.5	SLU 5	-0.00864	-0.00544	-0.04609	-0.0024	0.0112	-0.0117
18	575	1210	-567.5	SLU 6	-0.00006	-0.00908	-0.06596	-0.004	0.0001	-0.0194
18	575	1210	-567.5	SLU 7	-0.00561	-0.00908	-0.0528	-0.004	0.0073	-0.0194
18	575	1210	-567.5	SLU 8	-0.00305	0	-0.0651	0	0.004	0
18	575	1210	-567.5	SLU 9	-0.00681	-0.00545	-0.05245	-0.0024	0.0088	-0.0117
18	575	1210	-567.5	SLU 10	0.00804	0	-0.09339	0	-0.0104	0
18	575	1210	-567.5	SLU 11	0.00428	-0.00545	-0.08075	-0.0024	-0.0056	-0.0117
18	575	1210	-567.5	SLU 12	0.00248	0	-0.08023	0	-0.0032	0
18	575	1210	-567.5	SLU 13	-0.00128	-0.00545	-0.06759	-0.0024	0.0017	-0.0116
18	575	1210	-567.5	SLU 14	0.00608	0	-0.0867	0	-0.0079	0
18	575	1210	-567.5	SLU 15	-0.00019	-0.00908	-0.06563	-0.004	0.0002	-0.0194
18	575	1210	-567.5	SLU 16	-0.00575	-0.00908	-0.05247	-0.004	0.0075	-0.0194
18	575	1210	-567.5	SLU 17	-0.00318	0	-0.06476	0	0.0041	0
18	575	1210	-567.5	SLU 18	-0.00694	-0.00545	-0.05212	-0.0024	0.009	-0.0117
18	575	1210	-567.5	SLU 19	0.00164	-0.00908	-0.07199	-0.004	-0.0021	-0.0194
18	575	1210	-567.5	SLU 20	-0.00392	-0.00908	-0.05883	-0.004	0.0051	-0.0194
18	575	1210	-567.5	SLU 21	-0.00135	0	-0.07113	0	0.0018	0
18	575	1210	-567.5	SLU 22	-0.00511	-0.00545	-0.05848	-0.0024	0.0066	-0.0116
18	575	1210	-567.5	SLU 23	0.00974	0	-0.09942	0	-0.0126	0
18	575	1210	-567.5	SLU 24	0.00598	-0.00545	-0.08678	-0.0024	-0.0078	-0.0117
18	575	1210	-567.5	SLU 25	0.00418	0	-0.08626	0	-0.0054	0
18	575	1210	-567.5	SLU 26	0.00042	-0.00545	-0.07362	-0.0024	-0.0005	-0.0117
18	575	1210	-567.5	SLU 27	0.00569	0	-0.10487	0	-0.0074	0
18	575	1210	-567.5	SLU 28	-0.00057	-0.00908	-0.0838	-0.004	0.0007	-0.0194
18	575	1210	-567.5	SLU 29	-0.00613	-0.00908	-0.07064	-0.004	0.008	-0.0194
18	575	1210	-567.5	SLU 30	-0.00356	0	-0.08293	0	0.0046	0
18	575	1210	-567.5	SLU 31	-0.00733	-0.00544	-0.07029	-0.0024	0.0095	-0.0117
18	575	1210	-567.5	SLU 32	0.00126	-0.00908	-0.09016	-0.004	-0.0016	-0.0194
18	575	1210	-567.5	SLU 33	-0.0043	-0.00908	-0.077	-0.004	0.0056	-0.0194
18	575	1210	-567.5	SLU 34	-0.00173	0	-0.0893	0	0.0023	0
18	575	1210	-567.5	SLU 35	-0.0055	-0.00545	-0.07665	-0.0024	0.0071	-0.0117
18	575	1210	-567.5	SLU 36	0.00935	0	-0.11759	0	-0.0121	0
18	575	1210	-567.5	SLU 37	0.00559	-0.00545	-0.10495	-0.0024	-0.0073	-0.0117
18	575	1210	-567.5	SLU 38	0.0038	0	-0.10443	0	-0.0049	0
18	575	1210	-567.5	SLU 39	0.00004	-0.00545	-0.09179	-0.0024	0	-0.0116
18	575	1210	-567.5	SLU 40	0.00739	0	-0.1109	0	-0.0096	0
18	575	1210	-567.5	SLU 41	0.00112	-0.00908	-0.08983	-0.004	-0.0015	-0.0194
18	575	1210	-567.5	SLU 42	-0.00443	-0.00908	-0.07667	-0.004	0.0058	-0.0194
18	575	1210	-567.5	SLU 43	-0.00187	0	-0.08896	0	0.0024	0
18	575	1210	-567.5	SLU 44	-0.00563	-0.00545	-0.07632	-0.0024	0.0073	-0.0117
18	575	1210	-567.5	SLU 45	0.00295	-0.00908	-0.09619	-0.004	-0.0038	-0.0194
18	575	1210	-567.5	SLU 46	-0.0026	-0.00908	-0.08303	-0.004	0.0034	-0.0194
18	575	1210	-567.5	SLU 47	-0.00004	0	-0.09533	0	0	0
18	575	1210	-567.5	SLU 48	-0.0038	-0.00545	-0.08268	-0.0024	0.0049	-0.0116
18	575	1210	-567.5	SLU 49	0.01105	0	-0.12362	0	-0.0143	0
18	575	1210	-567.5	SLU 50	0.00729	-0.00545	-0.11098	-0.0024	-0.0095	-0.0117
18	575	1210	-567.5	SLU 51	0.0055	0	-0.11046	0	-0.0071	0
18	575	1210	-567.5	SLU 52	0.00173	-0.00545	-0.09782	-0.0024	-0.0023	-0.0117
18	575	1210	-567.5	SLE RA 1	0.00551	0	-0.08469	0	-0.0072	0
18	575	1210	-567.5	SLE RA 2	0.00133	-0.00605	-0.07064	-0.0027	-0.0017	-0.013
18	575	1210	-567.5	SLE RA 3	-0.00237	-0.00605	-0.06187	-0.0027	0.0031	-0.0129
18	575	1210	-567.5	SLE RA 4	-0.00066	0	-0.07006	0	0.0009	0
18	575	1210	-567.5	SLE RA 5	-0.00317	-0.00363	-0.06164	-0.0016	0.0041	-0.0078
18	575	1210	-567.5	SLE RA 6	0.00255	-0.00606	-0.07488	-0.0027	-0.0033	-0.013
18	575	1210	-567.5	SLE RA 7	-0.00115	-0.00605	-0.06611	-0.0027	0.0015	-0.0129
18	575	1210	-567.5	SLE RA 8	0.00056	0	-0.07431	0	-0.0007	0
18	575	1210	-567.5	SLE RA 9	-0.00195	-0.00363	-0.06588	-0.0016	0.0025	-0.0078
18	575	1210	-567.5	SLE RA 10	0.00795	0	-0.09317	0	-0.0103	0
18	575	1210	-567.5	SLE RA 11	0.00544	-0.00363	-0.08474	-0.0016	-0.0071	-0.0078
18	575	1210	-567.5	SLE RA 12	0.00425	0	-0.0844	0	-0.0055	0
18	575	1210	-567.5	SLE RA 13	0.00174	-0.00363	-0.07597	-0.0016	-0.0023	-0.0078
18	575	1210	-567.5	SLE FR 1	0.00551	0	-0.08469	0	-0.0072	0
18	575	1210	-567.5	SLE FR 2	0.00467	-0.00121	-0.08188	-0.0005	-0.0061	-0.0026
18	575	1210	-567.5	SLE FR 3	0.00428	0	-0.08176	0	-0.0056	0
18	575	1210	-567.5	SLE FR 4	0.006	0	-0.08638	0	-0.0078	0
18	575	1210	-567.5	SLE QP 1	0.00551	0	-0.08469	0	-0.0072	0
18	575	1210	-567.5	SLD 1	0.00982	0.00764	-0.08728	0.0033	-0.0128	0.0192
18	575	1210	-567.5	SLD 2	0.00982	0.00764	-0.08728	0.0033	-0.0128	0.0192
18	575	1210	-567.5	SLD 3	0.00868	-0.00764	-0.08693	-0.0033	-0.0113	-0.0192
18	575	1210	-567.5	SLD 4	0.00868	-0.00764	-0.08693	-0.0033	-0.0113	-0.0192
18	575	1210	-567.5	SLD 5	0.00855	0.02548	-0.08601	0.0111	-0.0111	0.0639
18	575	1210	-567.5	SLD 6	0.00855	0.02548	-0.08601	0.0111	-0.0111	0.0639
18	575	1210	-567.5	SLD 7	0.00472	-0.02546	-0.08482	-0.0111	-0.0061	-0.064
18	575	1210	-567.5	SLD 8	0.00472	-0.02546	-0.08482	-0.0111	-0.0061	-0.064
18	575	1210	-567.5	SLD 9	0.0063	0.02548	-0.08456	0.0111	-0.0082	0.0639
18	575	1210	-567.5	SLD 10	0.0063	0.02548	-0.08456	0.0111	-0.0082	0.0639
18	575	1210	-567.5	SLD 11	0.00248	-0.02546	-0.08336	-0.0111	-0.0032	-0.064
18	575	1210	-567.5	SLD 12	0.00248	-0.02546	-0.08336	-0.0111	-0.0032	-0.064
18	575	1210	-567.5	SLD 13	0.00235	0.00764	-0.08245	0.0033	-0.003	0.0192
18	575	1210	-567.5	SLD 14	0.00235	0.00764	-0.08245	0.0033	-0.003	0.0192
18	575	1210	-567.5	SLD 15	0.0012	-0.00764	-0.08209	-0.0033	-0.0016	-0.0192
18	575	1210	-567.5	SLD 16	0.0012	-0.00764	-0.08209	-0.0033	-0.0016	-0.0192
18	575	1210	-567.5	SLV 1	0.01659	0.01963	-0.09136	0.0086	-0.0215	0.0493
18	575	1210	-567.5	SLV 2	0.01659	0.01963	-0.09136	0.0086	-0.0215	0.0493
18	575	1210	-567.5	SLV 3	0.01364	-0.01962	-0.09044	-0.0086	-0.0177	-0.0493
18	575	1210	-567.5	SLV 4	0.01364	-0.01962	-0.09044	-0.0086	-0.0177	-0.0493
18	575	1210	-567.5	SLV 5	0.01331	0.06544	-0.08808	0.0286	-0.0173	0.1643
18	575	1210	-567.5	SLV 6	0.01331	0.06544	-0.08808	0.0286	-0.0173	0.1643
18	575	1210	-567.5	SLV 7	0.00348	-0.06541	-0.08502	-0.0286	-0.0045	-0.1644
18	575	1210	-567.5	SLV 8	0.00348	-0.06541	-0.08502	-0.0286	-0.0045	-0.1644
18	575	1210	-567.5	SLV 9	0.00754	0.06544	-0.08436	0.0286	-0.0098	0.1643
18	575	1210	-567.5	SLV 10	0.00754	0.06544	-0.08436	0.0286	-0.0098	0.1643
18	575	1210	-567.5	SLV 11	-0.00229	-0.06541	-0.08129	-0.0286	0.003	-0.1644

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
18	575	1210	-567.5	SLV 12	-0.00229	-0.06541	-0.08129	-0.0286	0.003	-0.1644
18	575	1210	-567.5	SLV 13	-0.00262	0.01964	-0.07894	0.0086	0.0034	0.0493
18	575	1210	-567.5	SLV 14	-0.00262	0.01964	-0.07894	0.0086	0.0034	0.0493
18	575	1210	-567.5	SLV 15	-0.00557	-0.01962	-0.07802	-0.0086	0.0072	-0.0493
18	575	1210	-567.5	SLV 16	-0.00557	-0.01962	-0.07802	-0.0086	0.0072	-0.0493
18	575	1210	-567.5	SLV FO 1	0.01659	0.01963	-0.09136	0.0086	-0.0215	0.0493
18	575	1210	-567.5	SLV FO 2	0.01659	0.01963	-0.09136	0.0086	-0.0215	0.0493
18	575	1210	-567.5	SLV FO 3	0.01364	-0.01962	-0.09044	-0.0086	-0.0177	-0.0493
18	575	1210	-567.5	SLV FO 4	0.01364	-0.01962	-0.09044	-0.0086	-0.0177	-0.0493
18	575	1210	-567.5	SLV FO 5	0.01331	0.06544	-0.08808	0.0286	-0.0173	0.1643
18	575	1210	-567.5	SLV FO 6	0.01331	0.06544	-0.08808	0.0286	-0.0173	0.1643
18	575	1210	-567.5	SLV FO 7	0.00348	-0.06541	-0.08502	-0.0286	-0.0045	-0.1644
18	575	1210	-567.5	SLV FO 8	0.00348	-0.06541	-0.08502	-0.0286	-0.0045	-0.1644
18	575	1210	-567.5	SLV FO 9	0.00754	0.06544	-0.08436	0.0286	-0.0098	0.1643
18	575	1210	-567.5	SLV FO 10	0.00754	0.06544	-0.08436	0.0286	-0.0098	0.1643
18	575	1210	-567.5	SLV FO 11	-0.00229	-0.06541	-0.08129	-0.0286	0.003	-0.1644
18	575	1210	-567.5	SLV FO 12	-0.00229	-0.06541	-0.08129	-0.0286	0.003	-0.1644
18	575	1210	-567.5	SLV FO 13	-0.00262	0.01964	-0.07894	0.0086	0.0034	0.0493
18	575	1210	-567.5	SLV FO 14	-0.00262	0.01964	-0.07894	0.0086	0.0034	0.0493
18	575	1210	-567.5	SLV FO 15	-0.00557	-0.01962	-0.07802	-0.0086	0.0072	-0.0493
18	575	1210	-567.5	SLV FO 16	-0.00557	-0.01962	-0.07802	-0.0086	0.0072	-0.0493
19	2045	1210	-567.5	SLU 1	-0.00416	0	-0.07596	0	0.0054	0
19	2045	1210	-567.5	SLU 2	0.00002	-0.01081	-0.06007	-0.0051	0	-0.0116
19	2045	1210	-567.5	SLU 3	0.00092	-0.01081	-0.05117	-0.0051	-0.0012	-0.0116
19	2045	1210	-567.5	SLU 4	-0.00267	0	-0.06111	0	0.0035	0
19	2045	1210	-567.5	SLU 5	-0.00016	-0.00648	-0.05158	-0.0031	0.0002	-0.007
19	2045	1210	-567.5	SLU 6	-0.00147	-0.01081	-0.06502	-0.0051	0.0019	-0.0116
19	2045	1210	-567.5	SLU 7	-0.00058	-0.01081	-0.05611	-0.0051	0.0007	-0.0116
19	2045	1210	-567.5	SLU 8	-0.00416	0	-0.06605	0	0.0054	0
19	2045	1210	-567.5	SLU 9	-0.00165	-0.00648	-0.05652	-0.0031	0.0021	-0.007
19	2045	1210	-567.5	SLU 10	-0.00715	0	-0.08584	0	0.0093	0
19	2045	1210	-567.5	SLU 11	-0.00464	-0.00648	-0.07631	-0.0031	0.006	-0.007
19	2045	1210	-567.5	SLU 12	-0.00625	0	-0.07693	0	0.0081	0
19	2045	1210	-567.5	SLU 13	-0.00374	-0.00648	-0.0674	-0.0031	0.0049	-0.007
19	2045	1210	-567.5	SLU 14	-0.00554	0	-0.08058	0	0.0072	0
19	2045	1210	-567.5	SLU 15	-0.00135	-0.01081	-0.0647	-0.0051	0.0018	-0.0116
19	2045	1210	-567.5	SLU 16	-0.00046	-0.01081	-0.05579	-0.0051	0.0006	-0.0116
19	2045	1210	-567.5	SLU 17	-0.00404	0	-0.06573	0	0.0053	0
19	2045	1210	-567.5	SLU 18	-0.00153	-0.00648	-0.0562	-0.0031	0.002	-0.007
19	2045	1210	-567.5	SLU 19	-0.00285	-0.01081	-0.06964	-0.0051	0.0037	-0.0116
19	2045	1210	-567.5	SLU 20	-0.00195	-0.01081	-0.06073	-0.0051	0.0025	-0.0116
19	2045	1210	-567.5	SLU 21	-0.00554	0	-0.07067	0	0.0072	0
19	2045	1210	-567.5	SLU 22	-0.00303	-0.00648	-0.06114	-0.0031	0.0039	-0.007
19	2045	1210	-567.5	SLU 23	-0.00853	0	-0.09047	0	0.0111	0
19	2045	1210	-567.5	SLU 24	-0.00602	-0.00648	-0.08093	-0.0031	0.0078	-0.007
19	2045	1210	-567.5	SLU 25	-0.00763	0	-0.08156	0	0.0099	0
19	2045	1210	-567.5	SLU 26	-0.00512	-0.00648	-0.07203	-0.0031	0.0066	-0.007
19	2045	1210	-567.5	SLU 27	-0.0054	0	-0.09875	0	0.007	0
19	2045	1210	-567.5	SLU 28	-0.00122	-0.01081	-0.08286	-0.0051	0.0016	-0.0116
19	2045	1210	-567.5	SLU 29	-0.00033	-0.01081	-0.07395	-0.0051	0.0004	-0.0116
19	2045	1210	-567.5	SLU 30	-0.00391	0	-0.0839	0	0.0051	0
19	2045	1210	-567.5	SLU 31	-0.0014	-0.00649	-0.07437	-0.0031	0.0018	-0.007
19	2045	1210	-567.5	SLU 32	-0.00272	-0.01081	-0.0878	-0.0051	0.0035	-0.0116
19	2045	1210	-567.5	SLU 33	-0.00182	-0.01081	-0.0789	-0.0051	0.0024	-0.0116
19	2045	1210	-567.5	SLU 34	-0.00541	0	-0.08884	0	0.007	0
19	2045	1210	-567.5	SLU 35	-0.0029	-0.00648	-0.07931	-0.0031	0.0038	-0.007
19	2045	1210	-567.5	SLU 36	-0.0084	0	-0.10863	0	0.0109	0
19	2045	1210	-567.5	SLU 37	-0.00589	-0.00648	-0.0991	-0.0031	0.0076	-0.007
19	2045	1210	-567.5	SLU 38	-0.0075	0	-0.09972	0	0.0097	0
19	2045	1210	-567.5	SLU 39	-0.00499	-0.00648	-0.09019	-0.0031	0.0065	-0.007
19	2045	1210	-567.5	SLU 40	-0.00678	0	-0.10337	0	0.0088	0
19	2045	1210	-567.5	SLU 41	-0.0026	-0.01081	-0.08748	-0.0051	0.0034	-0.0116
19	2045	1210	-567.5	SLU 42	-0.0017	-0.01081	-0.07857	-0.0051	0.0022	-0.0116
19	2045	1210	-567.5	SLU 43	-0.00529	0	-0.08852	0	0.0069	0
19	2045	1210	-567.5	SLU 44	-0.00278	-0.00648	-0.07899	-0.0031	0.0036	-0.007
19	2045	1210	-567.5	SLU 45	-0.00409	-0.0108	-0.09243	-0.0051	0.0053	-0.0116
19	2045	1210	-567.5	SLU 46	-0.0032	-0.01081	-0.08352	-0.0051	0.0042	-0.0116
19	2045	1210	-567.5	SLU 47	-0.00679	0	-0.09346	0	0.0088	0
19	2045	1210	-567.5	SLU 48	-0.00428	-0.00648	-0.08393	-0.0031	0.0056	-0.007
19	2045	1210	-567.5	SLU 49	-0.00977	0	-0.11325	0	0.0127	0
19	2045	1210	-567.5	SLU 50	-0.00726	-0.00648	-0.10372	-0.0031	0.0094	-0.007
19	2045	1210	-567.5	SLU 51	-0.00888	0	-0.10434	0	0.0115	0
19	2045	1210	-567.5	SLU 52	-0.00637	-0.00648	-0.09481	-0.0031	0.0083	-0.007
19	2045	1210	-567.5	SLE RA 1	-0.00508	0	-0.07904	0	0.0066	0
19	2045	1210	-567.5	SLE RA 2	-0.00229	-0.0072	-0.06845	-0.0034	0.003	-0.0078
19	2045	1210	-567.5	SLE RA 3	-0.00169	-0.00721	-0.06251	-0.0034	0.0022	-0.0078
19	2045	1210	-567.5	SLE RA 4	-0.00408	0	-0.06914	0	0.0053	0
19	2045	1210	-567.5	SLE RA 5	-0.00241	-0.00432	-0.06279	-0.002	0.0031	-0.0046
19	2045	1210	-567.5	SLE RA 6	-0.00328	-0.0072	-0.07175	-0.0034	0.0043	-0.0078
19	2045	1210	-567.5	SLE RA 7	-0.00269	-0.0072	-0.06581	-0.0034	0.0035	-0.0078
19	2045	1210	-567.5	SLE RA 8	-0.00508	0	-0.07244	0	0.0066	0
19	2045	1210	-567.5	SLE RA 9	-0.00341	-0.00432	-0.06608	-0.002	0.0044	-0.0046
19	2045	1210	-567.5	SLE RA 10	-0.00707	0	-0.08563	0	0.0092	0
19	2045	1210	-567.5	SLE RA 11	-0.0054	-0.00432	-0.07928	-0.002	0.007	-0.0047
19	2045	1210	-567.5	SLE RA 12	-0.00647	0	-0.07969	0	0.0084	0
19	2045	1210	-567.5	SLE RA 13	-0.0048	-0.00432	-0.07334	-0.002	0.0062	-0.0047
19	2045	1210	-567.5	SLE FR 1	-0.00508	0	-0.07904	0	0.0066	0
19	2045	1210	-567.5	SLE FR 2	-0.00452	-0.00144	-0.07692	-0.0007	0.0059	-0.0016
19	2045	1210	-567.5	SLE FR 3	-0.00488	0	-0.07706	0	0.0063	0
19	2045	1210	-567.5	SLE FR 4	-0.00547	0	-0.08036	0	0.0071	0
19	2045	1210	-567.5	SLE QP 1	-0.00508	0	-0.07904	0	0.0066	0
19	2045	1210	-567.5	SLD 1	0.0021	0.00715	-0.07611	0.0034	-0.0027	0.011
19	2045	1210	-567.5	SLD 2	0.0021	0.00715	-0.07611	0.0034	-0.0027	0.011
19	2045	1210	-567.5	SLD 3	-0.00006	-0.00714	-0.07708	-0.0034	0.0001	-0.011
19	2045	1210	-567.5	SLD 4	-0.00006	-0.00714	-0.07708	-0.0034	0.0001	-0.011
19	2045	1210	-567.5	SLD 5	0.00035	0.02384	-0.07668	0.0113	-0.0005	0.0367
19	2045	1210	-567.5	SLD 6	0.00035	0.02384	-0.07668	0.0113	-0.0005	0.0367
19	2045	1210	-567.5	SLD 7	-0.00684	-0.02379	-0.07993	-0.0113	0.0089	-0.0366
19	2045	1210	-567.5	SLD 8	-0.00684	-0.02379	-0.07993	-0.0113	0.0089	-0.0366
19	2045	1210	-567.5	SLD 9	-0.00331	0.02383	-0.07815	0.0113	0.0043	0.0367

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
19	2045	1210	-567.5	SLD 10	-0.00331	0.02383	-0.07815	0.0113	0.0043	0.0367
19	2045	1210	-567.5	SLD 11	-0.0105	-0.02379	-0.0814	-0.0113	0.0136	-0.0366
19	2045	1210	-567.5	SLD 12	-0.0105	-0.02379	-0.0814	-0.0113	0.0136	-0.0366
19	2045	1210	-567.5	SLD 13	-0.01009	0.00715	-0.081	0.0034	0.0131	0.011
19	2045	1210	-567.5	SLD 14	-0.01009	0.00715	-0.081	0.0034	0.0131	0.011
19	2045	1210	-567.5	SLD 15	-0.01225	-0.00714	-0.08197	-0.0034	0.0159	-0.011
19	2045	1210	-567.5	SLD 16	-0.01225	-0.00714	-0.08197	-0.0034	0.0159	-0.011
19	2045	1210	-567.5	SLV 1	0.01335	0.01837	-0.07151	0.0087	-0.0173	0.0283
19	2045	1210	-567.5	SLV 2	0.01335	0.01837	-0.07151	0.0087	-0.0173	0.0283
19	2045	1210	-567.5	SLV 3	0.00781	-0.01834	-0.07402	-0.0087	-0.0101	-0.0282
19	2045	1210	-567.5	SLV 4	0.00781	-0.01834	-0.07402	-0.0087	-0.0101	-0.0282
19	2045	1210	-567.5	SLV 5	0.00886	0.06123	-0.07298	0.029	-0.0115	0.0944
19	2045	1210	-567.5	SLV 6	0.00886	0.06123	-0.07298	0.029	-0.0115	0.0944
19	2045	1210	-567.5	SLV 7	-0.00961	-0.06111	-0.08133	-0.029	0.0125	-0.0939
19	2045	1210	-567.5	SLV 8	-0.00961	-0.06111	-0.08133	-0.029	0.0125	-0.0939
19	2045	1210	-567.5	SLV 9	-0.00054	0.06123	-0.07674	0.029	0.0007	0.0944
19	2045	1210	-567.5	SLV 10	-0.00054	0.06123	-0.07674	0.029	0.0007	0.0944
19	2045	1210	-567.5	SLV 11	-0.019	-0.06111	-0.0851	-0.029	0.0247	-0.0939
19	2045	1210	-567.5	SLV 12	-0.019	-0.06111	-0.0851	-0.029	0.0247	-0.0939
19	2045	1210	-567.5	SLV 13	-0.01796	0.01837	-0.08406	0.0087	0.0233	0.0283
19	2045	1210	-567.5	SLV 14	-0.01796	0.01837	-0.08406	0.0087	0.0233	0.0283
19	2045	1210	-567.5	SLV 15	-0.0235	-0.01833	-0.08657	-0.0087	0.0305	-0.0282
19	2045	1210	-567.5	SLV 16	-0.0235	-0.01833	-0.08657	-0.0087	0.0305	-0.0282
19	2045	1210	-567.5	SLV FO 1	0.01335	0.01837	-0.07151	0.0087	-0.0173	0.0283
19	2045	1210	-567.5	SLV FO 2	0.01335	0.01837	-0.07151	0.0087	-0.0173	0.0283
19	2045	1210	-567.5	SLV FO 3	0.00781	-0.01834	-0.07402	-0.0087	-0.0101	-0.0282
19	2045	1210	-567.5	SLV FO 4	0.00781	-0.01834	-0.07402	-0.0087	-0.0101	-0.0282
19	2045	1210	-567.5	SLV FO 5	0.00886	0.06123	-0.07298	0.029	-0.0115	0.0944
19	2045	1210	-567.5	SLV FO 6	0.00886	0.06123	-0.07298	0.029	-0.0115	0.0944
19	2045	1210	-567.5	SLV FO 7	-0.00961	-0.06111	-0.08133	-0.029	0.0125	-0.0939
19	2045	1210	-567.5	SLV FO 8	-0.00961	-0.06111	-0.08133	-0.029	0.0125	-0.0939
19	2045	1210	-567.5	SLV FO 9	-0.00054	0.06123	-0.07674	0.029	0.0007	0.0944
19	2045	1210	-567.5	SLV FO 10	-0.00054	0.06123	-0.07674	0.029	0.0007	0.0944
19	2045	1210	-567.5	SLV FO 11	-0.019	-0.06111	-0.0851	-0.029	0.0247	-0.0939
19	2045	1210	-567.5	SLV FO 12	-0.019	-0.06111	-0.0851	-0.029	0.0247	-0.0939
19	2045	1210	-567.5	SLV FO 13	-0.01796	0.01837	-0.08406	0.0087	0.0233	0.0283
19	2045	1210	-567.5	SLV FO 14	-0.01796	0.01837	-0.08406	0.0087	0.0233	0.0283
19	2045	1210	-567.5	SLV FO 15	-0.0235	-0.01833	-0.08657	-0.0087	0.0305	-0.0282
19	2045	1210	-567.5	SLV FO 16	-0.0235	-0.01833	-0.08657	-0.0087	0.0305	-0.0282
20	575	210	-392.5	SLU 1	-0.01726	0	-0.08148	0	-0.009	0
20	575	210	-392.5	SLU 2	0.00485	0.00752	-0.05998	-0.0075	0.0025	-0.0233
20	575	210	-392.5	SLU 3	0.02674	0.00751	-0.0466	-0.0075	0.0139	-0.0233
20	575	210	-392.5	SLU 4	0.01923	0	-0.05918	0	0.01	0
20	575	210	-392.5	SLU 5	0.03249	0.00451	-0.04628	-0.0045	0.0169	-0.014
20	575	210	-392.5	SLU 6	-0.00236	0.00752	-0.06645	-0.0075	-0.0012	-0.0234
20	575	210	-392.5	SLU 7	0.01953	0.00751	-0.05307	-0.0075	0.0102	-0.0233
20	575	210	-392.5	SLU 8	0.01201	0	-0.06565	0	0.0063	0
20	575	210	-392.5	SLU 9	0.02528	0.00451	-0.05275	-0.0045	0.0132	-0.014
20	575	210	-392.5	SLU 10	-0.03168	0	-0.09442	0	-0.0165	0
20	575	210	-392.5	SLU 11	-0.01841	0.00451	-0.08152	-0.0045	-0.0096	-0.014
20	575	210	-392.5	SLU 12	-0.00979	0	-0.08104	0	-0.0051	0
20	575	210	-392.5	SLU 13	0.00347	0.00451	-0.06814	-0.0045	0.0018	-0.014
20	575	210	-392.5	SLU 14	-0.02395	0	-0.08761	0	-0.0125	0
20	575	210	-392.5	SLU 15	-0.00183	0.00752	-0.06611	-0.0075	-0.001	-0.0234
20	575	210	-392.5	SLU 16	0.02005	0.00751	-0.05273	-0.0075	0.0104	-0.0233
20	575	210	-392.5	SLU 17	0.01254	0	-0.06531	0	0.0065	0
20	575	210	-392.5	SLU 18	0.0258	0.00451	-0.05241	-0.0045	0.0134	-0.014
20	575	210	-392.5	SLU 19	-0.00905	0.00752	-0.07258	-0.0075	-0.0047	-0.0234
20	575	210	-392.5	SLU 20	0.01284	0.00751	-0.0592	-0.0075	0.0067	-0.0233
20	575	210	-392.5	SLU 21	0.00533	0	-0.07178	0	0.0028	0
20	575	210	-392.5	SLU 22	0.01859	0.00451	-0.05888	-0.0045	0.0097	-0.014
20	575	210	-392.5	SLU 23	-0.03837	0	-0.10055	0	-0.02	0
20	575	210	-392.5	SLU 24	-0.0251	0.00451	-0.08765	-0.0045	-0.0131	-0.014
20	575	210	-392.5	SLU 25	-0.01648	0	-0.08717	0	-0.0086	0
20	575	210	-392.5	SLU 26	-0.00321	0.00451	-0.07427	-0.0045	-0.0017	-0.014
20	575	210	-392.5	SLU 27	-0.02244	0	-0.10592	0	-0.0117	0
20	575	210	-392.5	SLU 28	-0.00032	0.00752	-0.08443	-0.0075	-0.0002	-0.0233
20	575	210	-392.5	SLU 29	0.02156	0.00751	-0.07105	-0.0075	0.0112	-0.0233
20	575	210	-392.5	SLU 30	0.01405	0	-0.08362	0	0.0073	0
20	575	210	-392.5	SLU 31	0.02731	0.00451	-0.07073	-0.0045	0.0142	-0.014
20	575	210	-392.5	SLU 32	-0.00754	0.00752	-0.0909	-0.0075	-0.0039	-0.0234
20	575	210	-392.5	SLU 33	0.01435	0.00751	-0.07752	-0.0075	0.0075	-0.0233
20	575	210	-392.5	SLU 34	0.00684	0	-0.09009	0	0.0036	0
20	575	210	-392.5	SLU 35	0.0201	0.00451	-0.0772	-0.0045	0.0105	-0.014
20	575	210	-392.5	SLU 36	-0.03686	0	-0.11886	0	-0.0192	0
20	575	210	-392.5	SLU 37	-0.02359	0.00451	-0.10596	-0.0045	-0.0123	-0.014
20	575	210	-392.5	SLU 38	-0.01497	0	-0.10548	0	-0.0078	0
20	575	210	-392.5	SLU 39	-0.00171	0.00451	-0.09258	-0.0045	-0.0009	-0.014
20	575	210	-392.5	SLU 40	-0.02913	0	-0.11205	0	-0.0152	0
20	575	210	-392.5	SLU 41	-0.00701	0.00752	-0.09056	-0.0075	-0.0037	-0.0234
20	575	210	-392.5	SLU 42	0.01488	0.00751	-0.07718	-0.0075	0.0077	-0.0233
20	575	210	-392.5	SLU 43	0.00736	0	-0.08975	0	0.0038	0
20	575	210	-392.5	SLU 44	0.02063	0.00451	-0.07686	-0.0045	0.0107	-0.014
20	575	210	-392.5	SLU 45	-0.01422	0.00752	-0.09703	-0.0075	-0.0074	-0.0234
20	575	210	-392.5	SLU 46	0.00766	0.00751	-0.08365	-0.0075	0.004	-0.0233
20	575	210	-392.5	SLU 47	0.00015	0	-0.09622	0	0.0001	0
20	575	210	-392.5	SLU 48	0.01341	0.00451	-0.08333	-0.0045	0.007	-0.014
20	575	210	-392.5	SLU 49	-0.04355	0	-0.12499	0	-0.0227	0
20	575	210	-392.5	SLU 50	-0.03028	0.00451	-0.11209	-0.0045	-0.0158	-0.014
20	575	210	-392.5	SLU 51	-0.02166	0	-0.11161	0	-0.0113	0
20	575	210	-392.5	SLU 52	-0.00839	0.00451	-0.09871	-0.0045	-0.0044	-0.014
20	575	210	-392.5	SLE RA 1	-0.02172	0	-0.08557	0	-0.0113	0
20	575	210	-392.5	SLE RA 2	-0.00698	0.00501	-0.07124	-0.005	-0.0036	-0.0156
20	575	210	-392.5	SLE RA 3	0.00762	0.00501	-0.06232	-0.005	0.004	-0.0156
20	575	210	-392.5	SLE RA 4	0.0026	0	-0.0707	0	0.0014	0
20	575	210	-392.5	SLE RA 5	0.01145	0.00301	-0.0621	-0.003	0.006	-0.0093
20	575	210	-392.5	SLE RA 6	-0.01178	0.00501	-0.07555	-0.005	-0.0061	-0.0156
20	575	210	-392.5	SLE RA 7	0.00281	0.00501	-0.06663	-0.005	0.0015	-0.0156
20	575	210	-392.5	SLE RA 8	-0.0022	0	-0.07501	0	-0.0011	0
20	575	210	-392.5	SLE RA 9	0.00664	0.00301	-0.06641	-0.003	0.0035	-0.0093
20	575	210	-392.5	SLE RA 10	-0.03134	0	-0.09419	0	-0.0163	0
20	575	210	-392.5	SLE RA 11	-0.02249	0.00301	-0.08559	-0.003	-0.0117	-0.0093
20	575	210	-392.5	SLE RA 12	-0.01674	0	-0.08527	0	-0.0087	0

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
20	575	210	-392.5	SLE RA 13	-0.0079	0.00301	-0.07667	-0.003	-0.0041	-0.0093
20	575	210	-392.5	SLE FR 1	-0.02172	0	-0.08557	0	-0.0113	0
20	575	210	-392.5	SLE FR 2	-0.01877	0.001	-0.0827	-0.001	-0.0098	-0.0031
20	575	210	-392.5	SLE FR 3	-0.01685	0	-0.08259	0	-0.0088	0
20	575	210	-392.5	SLE FR 4	-0.02364	0	-0.08729	0	-0.0123	0
20	575	210	-392.5	SLE QP 1	-0.02172	0	-0.08557	0	-0.0113	0
20	575	210	-392.5	SLD 1	-0.03419	-0.00626	-0.08784	0.0063	-0.0178	0.0231
20	575	210	-392.5	SLD 2	-0.03419	-0.00626	-0.08784	0.0063	-0.0178	0.0231
20	575	210	-392.5	SLD 3	-0.03872	0.00626	-0.08821	-0.0063	-0.0202	-0.0231
20	575	210	-392.5	SLD 4	-0.03872	0.00626	-0.08821	-0.0063	-0.0202	-0.0231
20	575	210	-392.5	SLD 5	-0.0186	-0.02088	-0.0857	0.0209	-0.0097	0.0771
20	575	210	-392.5	SLD 6	-0.0186	-0.02088	-0.0857	0.0209	-0.0097	0.0771
20	575	210	-392.5	SLD 7	-0.03368	0.02087	-0.08691	-0.0209	-0.0175	-0.0771
20	575	210	-392.5	SLD 8	-0.03368	0.02087	-0.08691	-0.0209	-0.0175	-0.0771
20	575	210	-392.5	SLD 9	-0.00976	-0.02088	-0.08422	0.0209	-0.0051	0.0771
20	575	210	-392.5	SLD 10	-0.00976	-0.02088	-0.08422	0.0209	-0.0051	0.0771
20	575	210	-392.5	SLD 11	-0.02484	0.02087	-0.08544	-0.0209	-0.0129	-0.0771
20	575	210	-392.5	SLD 12	-0.02484	0.02087	-0.08544	-0.0209	-0.0129	-0.0771
20	575	210	-392.5	SLD 13	-0.00472	-0.00626	-0.08293	0.0063	-0.0025	0.0231
20	575	210	-392.5	SLD 14	-0.00472	-0.00626	-0.08293	0.0063	-0.0025	0.0231
20	575	210	-392.5	SLD 15	-0.00925	0.00626	-0.08329	-0.0063	-0.0048	-0.0231
20	575	210	-392.5	SLD 16	-0.00925	0.00626	-0.08329	-0.0063	-0.0048	-0.0231
20	575	210	-392.5	SLV 1	-0.05377	-0.01609	-0.09141	0.0161	-0.028	0.0595
20	575	210	-392.5	SLV 2	-0.05377	-0.01609	-0.09141	0.0161	-0.028	0.0595
20	575	210	-392.5	SLV 3	-0.06539	0.01609	-0.09235	-0.0161	-0.0341	-0.0594
20	575	210	-392.5	SLV 4	-0.06539	0.01609	-0.09235	-0.0161	-0.0341	-0.0594
20	575	210	-392.5	SLV 5	-0.0137	-0.05363	-0.0859	0.0536	-0.0071	0.1982
20	575	210	-392.5	SLV 6	-0.0137	-0.05363	-0.0859	0.0536	-0.0071	0.1982
20	575	210	-392.5	SLV 7	-0.05245	0.05362	-0.08902	-0.0536	-0.0273	-0.198
20	575	210	-392.5	SLV 8	-0.05245	0.05362	-0.08902	-0.0536	-0.0273	-0.198
20	575	210	-392.5	SLV 9	0.00901	-0.05363	-0.08211	0.0536	0.0047	0.1982
20	575	210	-392.5	SLV 10	0.00901	-0.05363	-0.08211	0.0536	0.0047	0.1982
20	575	210	-392.5	SLV 11	-0.02974	0.05362	-0.08523	-0.0536	-0.0155	-0.198
20	575	210	-392.5	SLV 12	-0.02974	0.05362	-0.08523	-0.0536	-0.0155	-0.198
20	575	210	-392.5	SLV 13	0.02194	-0.01609	-0.07878	0.0161	0.0114	0.0595
20	575	210	-392.5	SLV 14	0.02194	-0.01609	-0.07878	0.0161	0.0114	0.0595
20	575	210	-392.5	SLV 15	0.01032	0.01609	-0.07972	-0.0161	0.0054	-0.0594
20	575	210	-392.5	SLV 16	0.01032	0.01609	-0.07972	-0.0161	0.0054	-0.0594
20	575	210	-392.5	SLV FO 1	-0.05377	-0.01609	-0.09141	0.0161	-0.028	0.0595
20	575	210	-392.5	SLV FO 2	-0.05377	-0.01609	-0.09141	0.0161	-0.028	0.0595
20	575	210	-392.5	SLV FO 3	-0.06539	0.01609	-0.09235	-0.0161	-0.0341	-0.0594
20	575	210	-392.5	SLV FO 4	-0.06539	0.01609	-0.09235	-0.0161	-0.0341	-0.0594
20	575	210	-392.5	SLV FO 5	-0.0137	-0.05363	-0.0859	0.0536	-0.0071	0.1982
20	575	210	-392.5	SLV FO 6	-0.0137	-0.05363	-0.0859	0.0536	-0.0071	0.1982
20	575	210	-392.5	SLV FO 7	-0.05245	0.05362	-0.08902	-0.0536	-0.0273	-0.198
20	575	210	-392.5	SLV FO 8	-0.05245	0.05362	-0.08902	-0.0536	-0.0273	-0.198
20	575	210	-392.5	SLV FO 9	0.00901	-0.05363	-0.08211	0.0536	0.0047	0.1982
20	575	210	-392.5	SLV FO 10	0.00901	-0.05363	-0.08211	0.0536	0.0047	0.1982
20	575	210	-392.5	SLV FO 11	-0.02974	0.05362	-0.08523	-0.0536	-0.0155	-0.198
20	575	210	-392.5	SLV FO 12	-0.02974	0.05362	-0.08523	-0.0536	-0.0155	-0.198
20	575	210	-392.5	SLV FO 13	0.02194	-0.01609	-0.07878	0.0161	0.0114	0.0595
20	575	210	-392.5	SLV FO 14	0.02194	-0.01609	-0.07878	0.0161	0.0114	0.0595
20	575	210	-392.5	SLV FO 15	0.01032	0.01609	-0.07972	-0.0161	0.0054	-0.0594
20	575	210	-392.5	SLV FO 16	0.01032	0.01609	-0.07972	-0.0161	0.0054	-0.0594
21	2045	210	-392.5	SLU 1	0.01639	0	-0.07669	0	0.0085	0
21	2045	210	-392.5	SLU 2	-0.00513	0.0191	-0.05995	-0.014	-0.0027	-0.0241
21	2045	210	-392.5	SLU 3	-0.00867	0.0191	-0.05089	-0.014	-0.0045	-0.0241
21	2045	210	-392.5	SLU 4	0.01051	0	-0.0616	0	0.0055	0
21	2045	210	-392.5	SLU 5	-0.00241	0.01146	-0.05155	-0.0084	-0.0013	-0.0144
21	2045	210	-392.5	SLU 6	0.00077	0.0191	-0.06498	-0.014	0.0004	-0.024
21	2045	210	-392.5	SLU 7	-0.00277	0.0191	-0.05592	-0.014	-0.0014	-0.0241
21	2045	210	-392.5	SLU 8	0.0164	0	-0.06662	0	0.0085	0
21	2045	210	-392.5	SLU 9	0.00348	0.01146	-0.05658	-0.0084	0.0018	-0.0144
21	2045	210	-392.5	SLU 10	0.02818	0	-0.08674	0	0.0147	0
21	2045	210	-392.5	SLU 11	0.01527	0.01146	-0.0767	-0.0084	0.008	-0.0144
21	2045	210	-392.5	SLU 12	0.02464	0	-0.07768	0	0.0128	0
21	2045	210	-392.5	SLU 13	0.01173	0.01146	-0.06764	-0.0084	0.0061	-0.0144
21	2045	210	-392.5	SLU 14	0.02182	0	-0.08139	0	0.0114	0
21	2045	210	-392.5	SLU 15	0.0003	0.0191	-0.06465	-0.014	0.0002	-0.024
21	2045	210	-392.5	SLU 16	-0.00324	0.0191	-0.05559	-0.014	-0.0017	-0.0241
21	2045	210	-392.5	SLU 17	0.01594	0	-0.06629	0	0.0083	0
21	2045	210	-392.5	SLU 18	0.00302	0.01146	-0.05625	-0.0084	0.0016	-0.0144
21	2045	210	-392.5	SLU 19	0.0062	0.0191	-0.06968	-0.014	0.0032	-0.024
21	2045	210	-392.5	SLU 20	0.00266	0.0191	-0.06062	-0.014	0.0014	-0.0241
21	2045	210	-392.5	SLU 21	0.02183	0	-0.07132	0	0.0114	0
21	2045	210	-392.5	SLU 22	0.00891	0.01146	-0.06127	-0.0084	0.0046	-0.0144
21	2045	210	-392.5	SLU 23	0.03361	0	-0.09144	0	0.0175	0
21	2045	210	-392.5	SLU 24	0.0207	0.01146	-0.0814	-0.0084	0.0108	-0.0144
21	2045	210	-392.5	SLU 25	0.03007	0	-0.08238	0	0.0157	0
21	2045	210	-392.5	SLU 26	0.01716	0.01146	-0.07234	-0.0084	0.0089	-0.0144
21	2045	210	-392.5	SLU 27	0.0213	0	-0.0997	0	0.0111	0
21	2045	210	-392.5	SLU 28	-0.00021	0.0191	-0.08296	-0.014	-0.0001	-0.0241
21	2045	210	-392.5	SLU 29	-0.00375	0.0191	-0.0739	-0.014	-0.002	-0.0241
21	2045	210	-392.5	SLU 30	0.01542	0	-0.0846	0	0.008	0
21	2045	210	-392.5	SLU 31	0.0025	0.01146	-0.07456	-0.0084	0.0013	-0.0144
21	2045	210	-392.5	SLU 32	0.00568	0.0191	-0.08799	-0.014	0.003	-0.024
21	2045	210	-392.5	SLU 33	0.00214	0.0191	-0.07893	-0.014	0.0011	-0.0241
21	2045	210	-392.5	SLU 34	0.02132	0	-0.08963	0	0.0111	0
21	2045	210	-392.5	SLU 35	0.0084	0.01146	-0.07958	-0.0084	0.0044	-0.0144
21	2045	210	-392.5	SLU 36	0.03309	0	-0.10975	0	0.0172	0
21	2045	210	-392.5	SLU 37	0.02019	0.01146	-0.09971	-0.0084	0.0105	-0.0144
21	2045	210	-392.5	SLU 38	0.02956	0	-0.10069	0	0.0154	0
21	2045	210	-392.5	SLU 39	0.01665	0.01146	-0.09065	-0.0084	0.0087	-0.0144
21	2045	210	-392.5	SLU 40	0.02673	0	-0.1044	0	0.0139	0
21	2045	210	-392.5	SLU 41	0.00522	0.0191	-0.08766	-0.014	0.0027	-0.024
21	2045	210	-392.5	SLU 42	0.00168	0.0191	-0.0786	-0.014	0.0009	-0.0241
21	2045	210	-392.5	SLU 43	0.02085	0	-0.0893	0	0.0109	0
21	2045	210	-392.5	SLU 44	0.00793	0.01146	-0.07926	-0.0084	0.0041	-0.0144
21	2045	210	-392.5	SLU 45	0.01112	0.0191	-0.09268	-0.014	0.0058	-0.024
21	2045	210	-392.5	SLU 46	0.00757	0.0191	-0.08362	-0.014	0.0039	-0.0241

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
21	2045	210	-392.5	SLU 47	0.02674	0	-0.09433	0	0.0139	0
21	2045	210	-392.5	SLU 48	0.01383	0.01146	-0.08428	-0.0084	0.0072	-0.0144
21	2045	210	-392.5	SLU 49	0.03852	0	-0.11445	0	0.0201	0
21	2045	210	-392.5	SLU 50	0.02562	0.01146	-0.10441	-0.0084	0.0133	-0.0144
21	2045	210	-392.5	SLU 51	0.03499	0	-0.10539	0	0.0182	0
21	2045	210	-392.5	SLU 52	0.02208	0.01146	-0.09535	-0.0084	0.0115	-0.0144
21	2045	210	-392.5	SLE RA 1	0.02001	0	-0.07982	0	0.0104	0
21	2045	210	-392.5	SLE RA 2	0.00566	0.01273	-0.06866	-0.0093	0.003	-0.016
21	2045	210	-392.5	SLE RA 3	0.0033	0.01273	-0.06263	-0.0093	0.0017	-0.016
21	2045	210	-392.5	SLE RA 4	0.01609	0	-0.06976	0	0.0084	0
21	2045	210	-392.5	SLE RA 5	0.00747	0.00764	-0.06306	-0.0056	0.0039	-0.0096
21	2045	210	-392.5	SLE RA 6	0.0096	0.01273	-0.07202	-0.0093	0.005	-0.016
21	2045	210	-392.5	SLE RA 7	0.00724	0.01273	-0.06598	-0.0093	0.0038	-0.016
21	2045	210	-392.5	SLE RA 8	0.02001	0	-0.07311	0	0.0104	0
21	2045	210	-392.5	SLE RA 9	0.0114	0.00764	-0.06641	-0.0056	0.0059	-0.0096
21	2045	210	-392.5	SLE RA 10	0.02787	0	-0.08652	0	0.0145	0
21	2045	210	-392.5	SLE RA 11	0.01926	0.00764	-0.07983	-0.0056	0.01	-0.0096
21	2045	210	-392.5	SLE RA 12	0.02551	0	-0.08049	0	0.0133	0
21	2045	210	-392.5	SLE RA 13	0.01691	0.00764	-0.07379	-0.0056	0.0088	-0.0096
21	2045	210	-392.5	SLE FR 1	0.02001	0	-0.07982	0	0.0104	0
21	2045	210	-392.5	SLE FR 2	0.01714	0.00255	-0.07759	-0.0019	0.0089	-0.0032
21	2045	210	-392.5	SLE FR 3	0.01922	0	-0.07781	0	0.01	0
21	2045	210	-392.5	SLE FR 4	0.02158	0	-0.08116	0	0.0112	0
21	2045	210	-392.5	SLE QP 1	0.02001	0	-0.07982	0	0.0104	0
21	2045	210	-392.5	SLD 1	0.00023	-0.00679	-0.07784	0.0062	0.0001	0.0132
21	2045	210	-392.5	SLD 2	0.00023	-0.00679	-0.07784	0.0062	0.0001	0.0132
21	2045	210	-392.5	SLD 3	-0.00827	0.00681	-0.07684	-0.0062	-0.0043	-0.0133
21	2045	210	-392.5	SLD 4	-0.00827	0.00681	-0.07684	-0.0062	-0.0043	-0.0133
21	2045	210	-392.5	SLD 5	0.02696	-0.02264	-0.08073	0.0207	0.014	0.0441
21	2045	210	-392.5	SLD 6	0.02696	-0.02264	-0.08073	0.0207	0.014	0.0441
21	2045	210	-392.5	SLD 7	-0.00137	0.02268	-0.07742	-0.0208	-0.0007	-0.0443
21	2045	210	-392.5	SLD 8	-0.00137	0.02268	-0.07742	-0.0208	-0.0007	-0.0443
21	2045	210	-392.5	SLD 9	0.04137	-0.02264	-0.08222	0.0207	0.0215	0.044
21	2045	210	-392.5	SLD 10	0.04137	-0.02264	-0.08222	0.0207	0.0215	0.044
21	2045	210	-392.5	SLD 11	0.01305	0.02268	-0.07892	-0.0208	0.0068	-0.0443
21	2045	210	-392.5	SLD 12	0.01305	0.02268	-0.07892	-0.0208	0.0068	-0.0443
21	2045	210	-392.5	SLD 13	0.04828	-0.00679	-0.0828	0.0062	0.0251	0.0132
21	2045	210	-392.5	SLD 14	0.04828	-0.00679	-0.0828	0.0062	0.0251	0.0132
21	2045	210	-392.5	SLD 15	0.03978	0.0068	-0.08181	-0.0062	0.0207	-0.0133
21	2045	210	-392.5	SLD 16	0.03978	0.0068	-0.08181	-0.0062	0.0207	-0.0133
21	2045	210	-392.5	SLV 1	-0.0308	-0.01745	-0.07472	0.016	-0.016	0.034
21	2045	210	-392.5	SLV 2	-0.0308	-0.01745	-0.07472	0.016	-0.016	0.034
21	2045	210	-392.5	SLV 3	-0.05263	0.01748	-0.07217	-0.016	-0.0274	-0.0341
21	2045	210	-392.5	SLV 4	-0.05263	0.01748	-0.07217	-0.016	-0.0274	-0.0341
21	2045	210	-392.5	SLV 5	0.03787	-0.05816	-0.08216	0.0533	0.0197	0.1132
21	2045	210	-392.5	SLV 6	0.03787	-0.05816	-0.08216	0.0533	0.0197	0.1132
21	2045	210	-392.5	SLV 7	-0.03491	0.05827	-0.07366	-0.0534	-0.0182	-0.1137
21	2045	210	-392.5	SLV 8	-0.03491	0.05827	-0.07366	-0.0534	-0.0182	-0.1137
21	2045	210	-392.5	SLV 9	0.0749	-0.05816	-0.08599	0.0533	0.039	0.1132
21	2045	210	-392.5	SLV 10	0.0749	-0.05816	-0.08599	0.0533	0.039	0.1132
21	2045	210	-392.5	SLV 11	0.00212	0.05827	-0.07749	-0.0534	0.0011	-0.1137
21	2045	210	-392.5	SLV 12	0.00212	0.05827	-0.07749	-0.0534	0.0011	-0.1137
21	2045	210	-392.5	SLV 13	0.09263	-0.01745	-0.08748	0.016	0.0482	0.0339
21	2045	210	-392.5	SLV 14	0.09263	-0.01745	-0.08748	0.016	0.0482	0.0339
21	2045	210	-392.5	SLV 15	0.07081	0.01748	-0.08493	-0.016	0.0369	-0.0341
21	2045	210	-392.5	SLV 16	0.07081	0.01748	-0.08493	-0.016	0.0369	-0.0341
21	2045	210	-392.5	SLV FO 1	-0.0308	-0.01745	-0.07472	0.016	-0.016	0.034
21	2045	210	-392.5	SLV FO 2	-0.0308	-0.01745	-0.07472	0.016	-0.016	0.034
21	2045	210	-392.5	SLV FO 3	-0.05263	0.01748	-0.07217	-0.016	-0.0274	-0.0341
21	2045	210	-392.5	SLV FO 4	-0.05263	0.01748	-0.07217	-0.016	-0.0274	-0.0341
21	2045	210	-392.5	SLV FO 5	0.03787	-0.05816	-0.08216	0.0533	0.0197	0.1132
21	2045	210	-392.5	SLV FO 6	0.03787	-0.05816	-0.08216	0.0533	0.0197	0.1132
21	2045	210	-392.5	SLV FO 7	-0.03491	0.05827	-0.07366	-0.0534	-0.0182	-0.1137
21	2045	210	-392.5	SLV FO 8	-0.03491	0.05827	-0.07366	-0.0534	-0.0182	-0.1137
21	2045	210	-392.5	SLV FO 9	0.0749	-0.05816	-0.08599	0.0533	0.039	0.1132
21	2045	210	-392.5	SLV FO 10	0.0749	-0.05816	-0.08599	0.0533	0.039	0.1132
21	2045	210	-392.5	SLV FO 11	0.00212	0.05827	-0.07749	-0.0534	0.0011	-0.1137
21	2045	210	-392.5	SLV FO 12	0.00212	0.05827	-0.07749	-0.0534	0.0011	-0.1137
21	2045	210	-392.5	SLV FO 13	0.09263	-0.01745	-0.08748	0.016	0.0482	0.0339
21	2045	210	-392.5	SLV FO 14	0.09263	-0.01745	-0.08748	0.016	0.0482	0.0339
21	2045	210	-392.5	SLV FO 15	0.07081	0.01748	-0.08493	-0.016	0.0369	-0.0341
21	2045	210	-392.5	SLV FO 16	0.07081	0.01748	-0.08493	-0.016	0.0369	-0.0341
22	575	710	-392.5	SLU 1	-0.01895	0	-0.08555	0	-0.0099	0
22	575	710	-392.5	SLU 2	0.02158	0.00747	-0.04389	-0.0075	0.0112	-0.0234
22	575	710	-392.5	SLU 3	0.05479	0.00747	-0.01855	-0.0075	0.0285	-0.0234
22	575	710	-392.5	SLU 4	0.03639	0	-0.04331	0	0.019	0
22	575	710	-392.5	SLU 5	0.06072	0.00448	-0.01831	-0.0045	0.0316	-0.0141
22	575	710	-392.5	SLU 6	0.00904	0.00748	-0.05645	-0.0075	0.0047	-0.0234
22	575	710	-392.5	SLU 7	0.04225	0.00747	-0.03111	-0.0075	0.022	-0.0234
22	575	710	-392.5	SLU 8	0.02384	0	-0.05587	0	0.0124	0
22	575	710	-392.5	SLU 9	0.04817	0.00448	-0.03087	-0.0045	0.0251	-0.0141
22	575	710	-392.5	SLU 10	-0.04405	0	-0.11067	0	-0.0229	0
22	575	710	-392.5	SLU 11	-0.01972	0.00449	-0.08568	-0.0045	-0.0103	-0.0141
22	575	710	-392.5	SLU 12	-0.01083	0	-0.08533	0	-0.0056	0
22	575	710	-392.5	SLU 13	0.01349	0.00448	-0.06033	-0.0045	0.007	-0.014
22	575	710	-392.5	SLU 14	-0.03054	0	-0.09745	0	-0.0159	0
22	575	710	-392.5	SLU 15	0.01	0.00748	-0.05579	-0.0075	0.0052	-0.0234
22	575	710	-392.5	SLU 16	0.04321	0.00747	-0.03045	-0.0075	0.0225	-0.0234
22	575	710	-392.5	SLU 17	0.02481	0	-0.05521	0	0.0129	0
22	575	710	-392.5	SLU 18	0.04913	0.00448	-0.03022	-0.0045	0.0256	-0.0141
22	575	710	-392.5	SLU 19	-0.00254	0.00748	-0.06835	-0.0075	-0.0013	-0.0234
22	575	710	-392.5	SLU 20	0.03067	0.00747	-0.04301	-0.0075	0.016	-0.0234
22	575	710	-392.5	SLU 21	0.01226	0	-0.06777	0	0.0064	0
22	575	710	-392.5	SLU 22	0.03659	0.00448	-0.04278	-0.0045	0.0191	-0.014
22	575	710	-392.5	SLU 23	-0.05563	0	-0.12257	0	-0.029	0
22	575	710	-392.5	SLU 24	-0.03131	0.00449	-0.09758	-0.0045	-0.0163	-0.0141
22	575	710	-392.5	SLU 25	-0.02242	0	-0.09723	0	-0.0117	0
22	575	710	-392.5	SLU 26	0.0019	0.00449	-0.07223	-0.0045	0.001	-0.0141
22	575	710	-392.5	SLU 27	-0.02464	0	-0.11121	0	-0.0128	0
22	575	710	-392.5	SLU 28	0.0159	0.00747	-0.06955	-0.0075	0.0083	-0.0234
22	575	710	-392.5	SLU 29	0.04911	0.00747	-0.04421	-0.0075	0.0256	-0.0234
22	575	710	-392.5	SLU 30	0.0307	0	-0.06897	0	0.016	0
22	575	710	-392.5	SLU 31	0.05503	0.00448	-0.04398	-0.0045	0.0287	-0.0141

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
22	575	710	-392.5	SLU 32	0.00335	0.00748	-0.08211	-0.0075	0.0017	-0.0234
22	575	710	-392.5	SLU 33	0.03656	0.00747	-0.05677	-0.0075	0.019	-0.0234
22	575	710	-392.5	SLU 34	0.01816	0	-0.08154	0	0.0095	0
22	575	710	-392.5	SLU 35	0.04249	0.00448	-0.05654	-0.0045	0.0221	-0.0141
22	575	710	-392.5	SLU 36	-0.04973	0	-0.13634	0	-0.0259	0
22	575	710	-392.5	SLU 37	-0.02541	0.00449	-0.11134	-0.0045	-0.0132	-0.0141
22	575	710	-392.5	SLU 38	-0.01652	0	-0.11099	0	-0.0086	0
22	575	710	-392.5	SLU 39	0.0078	0.00448	-0.086	-0.0045	0.0041	-0.014
22	575	710	-392.5	SLU 40	-0.03622	0	-0.12311	0	-0.0189	0
22	575	710	-392.5	SLU 41	0.00432	0.00748	-0.08145	-0.0075	0.0022	-0.0234
22	575	710	-392.5	SLU 42	0.03753	0.00747	-0.05611	-0.0075	0.0195	-0.0234
22	575	710	-392.5	SLU 43	0.01912	0	-0.08088	0	0.01	0
22	575	710	-392.5	SLU 44	0.04345	0.00448	-0.05588	-0.0045	0.0226	-0.0141
22	575	710	-392.5	SLU 45	-0.00823	0.00748	-0.09402	-0.0075	-0.0043	-0.0235
22	575	710	-392.5	SLU 46	0.02498	0.00747	-0.06867	-0.0075	0.013	-0.0234
22	575	710	-392.5	SLU 47	0.00658	0	-0.09344	0	0.0034	0
22	575	710	-392.5	SLU 48	0.0309	0.00448	-0.06844	-0.0045	0.0161	-0.014
22	575	710	-392.5	SLU 49	-0.06132	0	-0.14824	0	-0.0319	0
22	575	710	-392.5	SLU 50	-0.03699	0.00449	-0.12324	-0.0045	-0.0193	-0.0141
22	575	710	-392.5	SLU 51	-0.02811	0	-0.12289	0	-0.0146	0
22	575	710	-392.5	SLU 52	-0.00378	0.00449	-0.0979	-0.0045	-0.002	-0.0141
22	575	710	-392.5	SLE RA 1	-0.02668	0	-0.09348	0	-0.0139	0
22	575	710	-392.5	SLE RA 2	0.00035	0.00498	-0.06571	-0.005	0.0002	-0.0156
22	575	710	-392.5	SLE RA 3	0.02249	0.00498	-0.04881	-0.005	0.0117	-0.0156
22	575	710	-392.5	SLE RA 4	0.01022	0	-0.06532	0	0.0053	0
22	575	710	-392.5	SLE RA 5	0.02644	0.00299	-0.04866	-0.003	0.0138	-0.0094
22	575	710	-392.5	SLE RA 6	-0.00802	0.00498	-0.07408	-0.005	-0.0042	-0.0156
22	575	710	-392.5	SLE RA 7	0.01413	0.00498	-0.05719	-0.005	0.0074	-0.0156
22	575	710	-392.5	SLE RA 8	0.00186	0	-0.0737	0	0.001	0
22	575	710	-392.5	SLE RA 9	0.01807	0.00299	-0.05703	-0.003	0.0094	-0.0094
22	575	710	-392.5	SLE RA 10	-0.0434	0	-0.11023	0	-0.0226	0
22	575	710	-392.5	SLE RA 11	-0.02719	0.00299	-0.09357	-0.003	-0.0142	-0.0094
22	575	710	-392.5	SLE RA 12	-0.02127	0	-0.09334	0	-0.0111	0
22	575	710	-392.5	SLE RA 13	-0.00505	0.00299	-0.07667	-0.003	-0.0026	-0.0094
22	575	710	-392.5	SLE FR 1	-0.02668	0	-0.09348	0	-0.0139	0
22	575	710	-392.5	SLE FR 2	-0.02127	0.001	-0.08793	-0.001	-0.0111	-0.0031
22	575	710	-392.5	SLE FR 3	-0.0193	0	-0.08785	0	-0.0101	0
22	575	710	-392.5	SLE FR 4	-0.03002	0	-0.09683	0	-0.0156	0
22	575	710	-392.5	SLE QP 1	-0.02668	0	-0.09348	0	-0.0139	0
22	575	710	-392.5	SLD 1	-0.0431	-0.00627	-0.09615	0.0063	-0.0224	0.0232
22	575	710	-392.5	SLD 2	-0.0431	-0.00627	-0.09615	0.0063	-0.0224	0.0232
22	575	710	-392.5	SLD 3	-0.0431	0.00627	-0.09615	-0.0063	-0.0224	-0.0232
22	575	710	-392.5	SLD 4	-0.0431	0.00627	-0.09615	-0.0063	-0.0224	-0.0232
22	575	710	-392.5	SLD 5	-0.03159	-0.02089	-0.09428	0.0209	-0.0165	0.0772
22	575	710	-392.5	SLD 6	-0.03159	-0.02089	-0.09428	0.0209	-0.0165	0.0772
22	575	710	-392.5	SLD 7	-0.03159	0.02089	-0.09428	-0.0209	-0.0165	-0.0772
22	575	710	-392.5	SLD 8	-0.03159	0.02089	-0.09428	-0.0209	-0.0165	-0.0772
22	575	710	-392.5	SLD 9	-0.02174	-0.02089	-0.09268	0.0209	-0.0113	0.0772
22	575	710	-392.5	SLD 10	-0.02174	-0.02089	-0.09268	0.0209	-0.0113	0.0772
22	575	710	-392.5	SLD 11	-0.02174	0.02089	-0.09268	-0.0209	-0.0113	-0.0772
22	575	710	-392.5	SLD 12	-0.02174	0.02089	-0.09268	-0.0209	-0.0113	-0.0772
22	575	710	-392.5	SLD 13	-0.01024	-0.00627	-0.09081	0.0063	-0.0053	0.0232
22	575	710	-392.5	SLD 14	-0.01024	-0.00627	-0.09081	0.0063	-0.0053	0.0232
22	575	710	-392.5	SLD 15	-0.01024	0.00627	-0.09081	-0.0063	-0.0053	-0.0232
22	575	710	-392.5	SLD 16	-0.01024	0.00627	-0.09081	-0.0063	-0.0053	-0.0232
22	575	710	-392.5	SLV 1	-0.06887	-0.0161	-0.10033	0.0161	-0.0359	0.0595
22	575	710	-392.5	SLV 2	-0.06887	-0.0161	-0.10033	0.0161	-0.0359	0.0595
22	575	710	-392.5	SLV 3	-0.06887	0.0161	-0.10033	-0.0161	-0.0359	-0.0595
22	575	710	-392.5	SLV 4	-0.06887	0.0161	-0.10033	-0.0161	-0.0359	-0.0595
22	575	710	-392.5	SLV 5	-0.03932	-0.05367	-0.09554	0.0537	-0.0205	0.1983
22	575	710	-392.5	SLV 6	-0.03932	-0.05367	-0.09554	0.0537	-0.0205	0.1983
22	575	710	-392.5	SLV 7	-0.03932	0.05367	-0.09554	-0.0537	-0.0205	-0.1983
22	575	710	-392.5	SLV 8	-0.03932	0.05367	-0.09554	-0.0537	-0.0205	-0.1983
22	575	710	-392.5	SLV 9	-0.01399	-0.05367	-0.09143	0.0537	-0.0073	0.1983
22	575	710	-392.5	SLV 10	-0.01399	-0.05367	-0.09143	0.0537	-0.0073	0.1983
22	575	710	-392.5	SLV 11	-0.01399	0.05367	-0.09143	-0.0537	-0.0073	-0.1983
22	575	710	-392.5	SLV 12	-0.01399	0.05367	-0.09143	-0.0537	-0.0073	-0.1983
22	575	710	-392.5	SLV 13	0.01553	-0.0161	-0.08663	0.0161	0.0081	0.0595
22	575	710	-392.5	SLV 14	0.01553	-0.0161	-0.08663	0.0161	0.0081	0.0595
22	575	710	-392.5	SLV 15	0.01553	0.0161	-0.08663	-0.0161	0.0081	-0.0595
22	575	710	-392.5	SLV 16	0.01553	0.0161	-0.08663	-0.0161	0.0081	-0.0595
22	575	710	-392.5	SLV FO 1	-0.06887	-0.0161	-0.10033	0.0161	-0.0359	0.0595
22	575	710	-392.5	SLV FO 2	-0.06887	-0.0161	-0.10033	0.0161	-0.0359	0.0595
22	575	710	-392.5	SLV FO 3	-0.06887	0.0161	-0.10033	-0.0161	-0.0359	-0.0595
22	575	710	-392.5	SLV FO 4	-0.06887	0.0161	-0.10033	-0.0161	-0.0359	-0.0595
22	575	710	-392.5	SLV FO 5	-0.03932	-0.05367	-0.09554	0.0537	-0.0205	0.1983
22	575	710	-392.5	SLV FO 6	-0.03932	-0.05367	-0.09554	0.0537	-0.0205	0.1983
22	575	710	-392.5	SLV FO 7	-0.03932	0.05367	-0.09554	-0.0537	-0.0205	-0.1983
22	575	710	-392.5	SLV FO 8	-0.03932	0.05367	-0.09554	-0.0537	-0.0205	-0.1983
22	575	710	-392.5	SLV FO 9	-0.01399	-0.05367	-0.09143	0.0537	-0.0073	0.1983
22	575	710	-392.5	SLV FO 10	-0.01399	-0.05367	-0.09143	0.0537	-0.0073	0.1983
22	575	710	-392.5	SLV FO 11	-0.01399	0.05367	-0.09143	-0.0537	-0.0073	-0.1983
22	575	710	-392.5	SLV FO 12	-0.01399	0.05367	-0.09143	-0.0537	-0.0073	-0.1983
22	575	710	-392.5	SLV FO 13	0.01553	-0.0161	-0.08663	0.0161	0.0081	0.0595
22	575	710	-392.5	SLV FO 14	0.01553	-0.0161	-0.08663	0.0161	0.0081	0.0595
22	575	710	-392.5	SLV FO 15	0.01553	0.0161	-0.08663	-0.0161	0.0081	-0.0595
22	575	710	-392.5	SLV FO 16	0.01553	0.0161	-0.08663	-0.0161	0.0081	-0.0595
23	2045	710	-392.5	SLU 1	0.0207	0	-0.08039	0	0.0108	0
23	2045	710	-392.5	SLU 2	-0.02865	0.01031	-0.04619	-0.0094	-0.0149	-0.0141
23	2045	710	-392.5	SLU 3	-0.04911	0.01031	-0.02655	-0.0094	-0.0256	-0.0141
23	2045	710	-392.5	SLU 4	-0.0134	0	-0.04767	0	-0.007	0
23	2045	710	-392.5	SLU 5	-0.04301	0.00619	-0.02715	-0.0057	-0.0224	-0.0084
23	2045	710	-392.5	SLU 6	-0.01348	0.01031	-0.05663	-0.0094	-0.007	-0.0141
23	2045	710	-392.5	SLU 7	-0.03393	0.01031	-0.037	-0.0094	-0.0177	-0.0141
23	2045	710	-392.5	SLU 8	0.00178	0	-0.05812	0	0.0009	0
23	2045	710	-392.5	SLU 9	-0.02782	0.00619	-0.03759	-0.0057	-0.0145	-0.0084
23	2045	710	-392.5	SLU 10	0.05106	0	-0.10128	0	0.0266	0
23	2045	710	-392.5	SLU 11	0.02145	0.00618	-0.08076	-0.0057	0.0112	-0.0084
23	2045	710	-392.5	SLU 12	0.03061	0	-0.08165	0	0.0159	0
23	2045	710	-392.5	SLU 13	0.001	0.00619	-0.06113	-0.0057	0.0005	-0.0084

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
23	2045	710	-392.5	SLU 14	0.0348	0	-0.09017	0	0.0181	0
23	2045	710	-392.5	SLU 15	-0.01456	0.01031	-0.05596	-0.0094	-0.0076	-0.0141
23	2045	710	-392.5	SLU 16	-0.03501	0.01031	-0.03633	-0.0094	-0.0182	-0.0141
23	2045	710	-392.5	SLU 17	0.0007	0	-0.05745	0	0.0004	0
23	2045	710	-392.5	SLU 18	-0.0289	0.00619	-0.03692	-0.0057	-0.0151	-0.0084
23	2045	710	-392.5	SLU 19	0.00063	0.01031	-0.0664	-0.0094	0.0003	-0.0141
23	2045	710	-392.5	SLU 20	-0.01982	0.01031	-0.04677	-0.0094	-0.0103	-0.0141
23	2045	710	-392.5	SLU 21	0.01589	0	-0.06789	0	0.0083	0
23	2045	710	-392.5	SLU 22	-0.01372	0.00619	-0.04737	-0.0057	-0.0071	-0.0084
23	2045	710	-392.5	SLU 23	0.06516	0	-0.11105	0	0.0339	0
23	2045	710	-392.5	SLU 24	0.03555	0.00618	-0.09053	-0.0057	0.0185	-0.0084
23	2045	710	-392.5	SLU 25	0.04472	0	-0.09142	0	0.0233	0
23	2045	710	-392.5	SLU 26	0.0151	0.00619	-0.0709	-0.0057	0.0079	-0.0084
23	2045	710	-392.5	SLU 27	0.02691	0	-0.10451	0	0.014	0
23	2045	710	-392.5	SLU 28	-0.02244	0.01031	-0.0703	-0.0094	-0.0117	-0.0141
23	2045	710	-392.5	SLU 29	-0.0429	0.01031	-0.05067	-0.0094	-0.0223	-0.0141
23	2045	710	-392.5	SLU 30	-0.00719	0	-0.07179	0	-0.0037	0
23	2045	710	-392.5	SLU 31	-0.03679	0.00619	-0.05127	-0.0057	-0.0192	-0.0084
23	2045	710	-392.5	SLU 32	-0.00726	0.01031	-0.08075	-0.0094	-0.0038	-0.0141
23	2045	710	-392.5	SLU 33	-0.02771	0.01031	-0.06112	-0.0094	-0.0144	-0.0141
23	2045	710	-392.5	SLU 34	0.008	0	-0.08223	0	0.0042	0
23	2045	710	-392.5	SLU 35	-0.02161	0.00619	-0.06171	-0.0057	-0.0113	-0.0084
23	2045	710	-392.5	SLU 36	0.05727	0	-0.1254	0	0.0298	0
23	2045	710	-392.5	SLU 37	0.02766	0.00618	-0.10487	-0.0057	0.0144	-0.0084
23	2045	710	-392.5	SLU 38	0.03682	0	-0.10577	0	0.0192	0
23	2045	710	-392.5	SLU 39	0.00721	0.00619	-0.08524	-0.0057	0.0038	-0.0084
23	2045	710	-392.5	SLU 40	0.04101	0	-0.11428	0	0.0214	0
23	2045	710	-392.5	SLU 41	-0.00834	0.01031	-0.08008	-0.0094	-0.0043	-0.0141
23	2045	710	-392.5	SLU 42	-0.0288	0.01031	-0.06045	-0.0094	-0.015	-0.0141
23	2045	710	-392.5	SLU 43	0.00691	0	-0.08156	0	0.0036	0
23	2045	710	-392.5	SLU 44	-0.02269	0.00619	-0.06104	-0.0057	-0.0118	-0.0084
23	2045	710	-392.5	SLU 45	0.00684	0.01031	-0.09052	-0.0094	0.0036	-0.0141
23	2045	710	-392.5	SLU 46	-0.01361	0.01031	-0.07089	-0.0094	-0.0071	-0.0141
23	2045	710	-392.5	SLU 47	0.0221	0	-0.09201	0	0.0115	0
23	2045	710	-392.5	SLU 48	-0.00751	0.00619	-0.07148	-0.0057	-0.0039	-0.0084
23	2045	710	-392.5	SLU 49	0.07137	0	-0.13517	0	0.0372	0
23	2045	710	-392.5	SLU 50	0.04176	0.00618	-0.11465	-0.0057	0.0217	-0.0084
23	2045	710	-392.5	SLU 51	0.05092	0	-0.11554	0	0.0265	0
23	2045	710	-392.5	SLU 52	0.02131	0.00619	-0.09502	-0.0057	0.0111	-0.0084
23	2045	710	-392.5	SLE RA 1	0.0301	0	-0.08691	0	0.0157	0
23	2045	710	-392.5	SLE RA 2	-0.0028	0.00687	-0.0641	-0.0063	-0.0015	-0.0094
23	2045	710	-392.5	SLE RA 3	-0.01644	0.00688	-0.05102	-0.0063	-0.0086	-0.0094
23	2045	710	-392.5	SLE RA 4	0.00737	0	-0.06509	0	0.0038	0
23	2045	710	-392.5	SLE RA 5	-0.01237	0.00413	-0.05141	-0.0038	-0.0064	-0.0056
23	2045	710	-392.5	SLE RA 6	0.00731	0.00687	-0.07107	-0.0063	0.0038	-0.0094
23	2045	710	-392.5	SLE RA 7	-0.00632	0.00688	-0.05798	-0.0063	-0.0033	-0.0094
23	2045	710	-392.5	SLE RA 8	0.01749	0	-0.07206	0	0.0091	0
23	2045	710	-392.5	SLE RA 9	-0.00225	0.00413	-0.05838	-0.0038	-0.0012	-0.0056
23	2045	710	-392.5	SLE RA 10	0.05034	0	-0.10083	0	0.0262	0
23	2045	710	-392.5	SLE RA 11	0.0306	0.00412	-0.08715	-0.0038	0.0159	-0.0056
23	2045	710	-392.5	SLE RA 12	0.0367	0	-0.08774	0	0.0191	0
23	2045	710	-392.5	SLE RA 13	0.01697	0.00412	-0.07406	-0.0038	0.0088	-0.0056
23	2045	710	-392.5	SLE FR 1	0.0301	0	-0.08691	0	0.0157	0
23	2045	710	-392.5	SLE FR 2	0.02352	0.00137	-0.08235	-0.0013	0.0122	-0.0019
23	2045	710	-392.5	SLE FR 3	0.02555	0	-0.08254	0	0.0133	0
23	2045	710	-392.5	SLE FR 4	0.03415	0	-0.08969	0	0.0178	0
23	2045	710	-392.5	SLE QP 1	0.0301	0	-0.08691	0	0.0157	0
23	2045	710	-392.5	SLD 1	0.004	-0.0068	-0.08429	0.0062	0.0021	0.0132
23	2045	710	-392.5	SLD 2	0.004	-0.0068	-0.08429	0.0062	0.0021	0.0132
23	2045	710	-392.5	SLD 3	0.004	0.0068	-0.08429	-0.0062	0.0021	-0.0132
23	2045	710	-392.5	SLD 4	0.004	0.0068	-0.08429	-0.0062	0.0021	-0.0132
23	2045	710	-392.5	SLD 5	0.02228	-0.02266	-0.08612	0.0208	0.0116	0.0441
23	2045	710	-392.5	SLD 6	0.02228	-0.02266	-0.08612	0.0208	0.0116	0.0441
23	2045	710	-392.5	SLD 7	0.02228	0.02266	-0.08612	-0.0208	0.0116	-0.0441
23	2045	710	-392.5	SLD 8	0.02228	0.02266	-0.08612	-0.0208	0.0116	-0.0441
23	2045	710	-392.5	SLD 9	0.03794	-0.02266	-0.08769	0.0208	0.0198	0.0441
23	2045	710	-392.5	SLD 10	0.03794	-0.02266	-0.08769	0.0208	0.0198	0.0441
23	2045	710	-392.5	SLD 11	0.03794	0.02266	-0.08769	-0.0208	0.0198	-0.0441
23	2045	710	-392.5	SLD 12	0.03794	0.02266	-0.08769	-0.0208	0.0198	-0.0441
23	2045	710	-392.5	SLD 13	0.05621	-0.0068	-0.08952	0.0062	0.0293	0.0132
23	2045	710	-392.5	SLD 14	0.05621	-0.0068	-0.08952	0.0062	0.0293	0.0132
23	2045	710	-392.5	SLD 15	0.05621	0.0068	-0.08952	-0.0062	0.0293	-0.0132
23	2045	710	-392.5	SLD 16	0.05621	0.0068	-0.08952	-0.0062	0.0293	-0.0132
23	2045	710	-392.5	SLV 1	-0.03694	-0.01746	-0.08019	0.016	-0.0192	0.034
23	2045	710	-392.5	SLV 2	-0.03694	-0.01746	-0.08019	0.016	-0.0192	0.034
23	2045	710	-392.5	SLV 3	-0.03694	0.01746	-0.08019	-0.016	-0.0192	-0.034
23	2045	710	-392.5	SLV 4	-0.03694	0.01746	-0.08019	-0.016	-0.0192	-0.034
23	2045	710	-392.5	SLV 5	0.01	-0.05822	-0.08489	0.0533	0.0052	0.1134
23	2045	710	-392.5	SLV 6	0.01	-0.05822	-0.08489	0.0533	0.0052	0.1134
23	2045	710	-392.5	SLV 7	0.01	0.05822	-0.08489	-0.0533	0.0052	-0.1134
23	2045	710	-392.5	SLV 8	0.01	0.05822	-0.08489	-0.0533	0.0052	-0.1134
23	2045	710	-392.5	SLV 9	0.05022	-0.05822	-0.08893	0.0533	0.0262	0.1134
23	2045	710	-392.5	SLV 10	0.05022	-0.05822	-0.08893	0.0533	0.0262	0.1134
23	2045	710	-392.5	SLV 11	0.05022	0.05822	-0.08893	-0.0533	0.0262	-0.1134
23	2045	710	-392.5	SLV 12	0.05022	0.05822	-0.08893	-0.0533	0.0262	-0.1134
23	2045	710	-392.5	SLV 13	0.09715	-0.01747	-0.09363	0.016	0.0506	0.034
23	2045	710	-392.5	SLV 14	0.09715	-0.01747	-0.09363	0.016	0.0506	0.034
23	2045	710	-392.5	SLV 15	0.09715	0.01747	-0.09363	-0.016	0.0506	-0.034
23	2045	710	-392.5	SLV 16	0.09715	0.01747	-0.09363	-0.016	0.0506	-0.034
23	2045	710	-392.5	SLV FO 1	-0.03694	-0.01746	-0.08019	0.016	-0.0192	0.034
23	2045	710	-392.5	SLV FO 2	-0.03694	-0.01746	-0.08019	0.016	-0.0192	0.034
23	2045	710	-392.5	SLV FO 3	-0.03694	0.01746	-0.08019	-0.016	-0.0192	-0.034
23	2045	710	-392.5	SLV FO 4	-0.03694	0.01746	-0.08019	-0.016	-0.0192	-0.034
23	2045	710	-392.5	SLV FO 5	0.01	-0.05822	-0.08489	0.0533	0.0052	0.1134
23	2045	710	-392.5	SLV FO 6	0.01	-0.05822	-0.08489	0.0533	0.0052	0.1134
23	2045	710	-392.5	SLV FO 7	0.01	0.05822	-0.08489	-0.0533	0.0052	-0.1134
23	2045	710	-392.5	SLV FO 8	0.01	0.05822	-0.08489	-0.0533	0.0052	-0.1134
23	2045	710	-392.5	SLV FO 9	0.05022	-0.05822	-0.08893	0.0533	0.0262	0.1134
23	2045	710	-392.5	SLV FO 10	0.05022	-0.05822	-0.08893	0.0533	0.0262	0.1134
23	2045	710	-392.5	SLV FO 11	0.05022	0.05822	-0.08893	-0.0533	0.0262	-0.1134
23	2045	710	-392.5	SLV FO 12	0.05022	0.05822	-0.08893	-0.0533	0.0262	-0.1134
23	2045	710	-392.5	SLV FO 13	0.09715	-0.01747	-0.09363	0.016	0.0506	0.034
23	2045	710	-392.5	SLV FO 14	0.09715	-0.01747	-0.09363	0.016	0.0506	0.034

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
23	2045	710	-392.5	SLV FO 15	0.09715	0.01747	-0.09363	-0.016	0.0506	-0.034
23	2045	710	-392.5	SLV FO 16	0.09715	0.01747	-0.09363	-0.016	0.0506	-0.034
24	575	1210	-392.5	SLU 1	-0.01726	0	-0.08148	0	-0.009	0
24	575	1210	-392.5	SLU 2	0.00745	0.00747	-0.06006	-0.0075	0.0039	-0.0234
24	575	1210	-392.5	SLU 3	0.02934	0.00747	-0.04668	-0.0075	0.0153	-0.0234
24	575	1210	-392.5	SLU 4	0.01923	0	-0.05918	0	0.01	0
24	575	1210	-392.5	SLU 5	0.03405	0.00448	-0.04633	-0.0045	0.0177	-0.014
24	575	1210	-392.5	SLU 6	0.00023	0.00747	-0.06653	-0.0075	0.0001	-0.0234
24	575	1210	-392.5	SLU 7	0.02213	0.00747	-0.05315	-0.0075	0.0115	-0.0234
24	575	1210	-392.5	SLU 8	0.01201	0	-0.06565	0	0.0063	0
24	575	1210	-392.5	SLU 9	0.02684	0.00448	-0.0528	-0.0045	0.014	-0.014
24	575	1210	-392.5	SLU 10	-0.03168	0	-0.09442	0	-0.0165	0
24	575	1210	-392.5	SLU 11	-0.01686	0.00448	-0.08156	-0.0045	-0.0088	-0.0141
24	575	1210	-392.5	SLU 12	-0.00979	0	-0.08104	0	-0.0051	0
24	575	1210	-392.5	SLU 13	0.00503	0.00448	-0.06818	-0.0045	0.0026	-0.014
24	575	1210	-392.5	SLU 14	-0.02395	0	-0.08761	0	-0.0125	0
24	575	1210	-392.5	SLU 15	0.00076	0.00747	-0.06619	-0.0075	0.0004	-0.0234
24	575	1210	-392.5	SLU 16	0.02265	0.00747	-0.05281	-0.0075	0.0118	-0.0234
24	575	1210	-392.5	SLU 17	0.01254	0	-0.06531	0	0.0065	0
24	575	1210	-392.5	SLU 18	0.02736	0.00448	-0.05246	-0.0045	0.0143	-0.014
24	575	1210	-392.5	SLU 19	-0.00646	0.00747	-0.07266	-0.0075	-0.0034	-0.0234
24	575	1210	-392.5	SLU 20	0.01544	0.00747	-0.05928	-0.0075	0.008	-0.0234
24	575	1210	-392.5	SLU 21	0.00533	0	-0.07178	0	0.0028	0
24	575	1210	-392.5	SLU 22	0.02015	0.00448	-0.05893	-0.0045	0.0105	-0.014
24	575	1210	-392.5	SLU 23	-0.03837	0	-0.10055	0	-0.02	0
24	575	1210	-392.5	SLU 24	-0.02355	0.00448	-0.0877	-0.0045	-0.0123	-0.0141
24	575	1210	-392.5	SLU 25	-0.01648	0	-0.08717	0	-0.0086	0
24	575	1210	-392.5	SLU 26	-0.00166	0.00448	-0.07432	-0.0045	-0.0009	-0.014
24	575	1210	-392.5	SLU 27	-0.02244	0	-0.10592	0	-0.0117	0
24	575	1210	-392.5	SLU 28	0.00227	0.00747	-0.0845	-0.0075	0.0012	-0.0234
24	575	1210	-392.5	SLU 29	0.02416	0.00747	-0.07112	-0.0075	0.0126	-0.0234
24	575	1210	-392.5	SLU 30	0.01405	0	-0.08362	0	0.0073	0
24	575	1210	-392.5	SLU 31	0.02887	0.00448	-0.07077	-0.0045	0.015	-0.014
24	575	1210	-392.5	SLU 32	-0.00495	0.00747	-0.09097	-0.0075	-0.0026	-0.0234
24	575	1210	-392.5	SLU 33	0.01695	0.00747	-0.07759	-0.0075	0.0088	-0.0234
24	575	1210	-392.5	SLU 34	0.00684	0	-0.09009	0	0.0036	0
24	575	1210	-392.5	SLU 35	0.02166	0.00448	-0.07724	-0.0045	0.0113	-0.014
24	575	1210	-392.5	SLU 36	-0.03686	0	-0.11886	0	-0.0192	0
24	575	1210	-392.5	SLU 37	-0.02204	0.00448	-0.10601	-0.0045	-0.0115	-0.0141
24	575	1210	-392.5	SLU 38	-0.01497	0	-0.10548	0	-0.0078	0
24	575	1210	-392.5	SLU 39	-0.00015	0.00448	-0.09263	-0.0045	-0.0001	-0.014
24	575	1210	-392.5	SLU 40	-0.02913	0	-0.11205	0	-0.0152	0
24	575	1210	-392.5	SLU 41	-0.00442	0.00747	-0.09063	-0.0075	-0.0023	-0.0234
24	575	1210	-392.5	SLU 42	0.01747	0.00747	-0.07725	-0.0075	0.0091	-0.0234
24	575	1210	-392.5	SLU 43	0.00736	0	-0.08975	0	0.0038	0
24	575	1210	-392.5	SLU 44	0.02218	0.00448	-0.0769	-0.0045	0.0116	-0.014
24	575	1210	-392.5	SLU 45	-0.01164	0.00747	-0.0971	-0.0075	-0.0061	-0.0234
24	575	1210	-392.5	SLU 46	0.01026	0.00747	-0.08372	-0.0075	0.0053	-0.0234
24	575	1210	-392.5	SLU 47	0.00015	0	-0.09622	0	0.0001	0
24	575	1210	-392.5	SLU 48	0.01497	0.00448	-0.08337	-0.0045	0.0078	-0.014
24	575	1210	-392.5	SLU 49	-0.04355	0	-0.12499	0	-0.0227	0
24	575	1210	-392.5	SLU 50	-0.02873	0.00448	-0.11214	-0.0045	-0.015	-0.0141
24	575	1210	-392.5	SLU 51	-0.02166	0	-0.11161	0	-0.0113	0
24	575	1210	-392.5	SLU 52	-0.00684	0.00448	-0.09876	-0.0045	-0.0036	-0.0141
24	575	1210	-392.5	SLE RA 1	-0.02172	0	-0.08557	0	-0.0113	0
24	575	1210	-392.5	SLE RA 2	-0.00525	0.00498	-0.07129	-0.005	-0.0027	-0.0156
24	575	1210	-392.5	SLE RA 3	0.00935	0.00498	-0.06236	-0.005	0.0049	-0.0156
24	575	1210	-392.5	SLE RA 4	0.0026	0	-0.0707	0	0.0014	0
24	575	1210	-392.5	SLE RA 5	0.01249	0.00299	-0.06213	-0.003	0.0065	-0.0094
24	575	1210	-392.5	SLE RA 6	-0.01006	0.00498	-0.0756	-0.005	-0.0052	-0.0156
24	575	1210	-392.5	SLE RA 7	0.00454	0.00498	-0.06668	-0.005	0.0024	-0.0156
24	575	1210	-392.5	SLE RA 8	-0.0022	0	-0.07501	0	-0.0011	0
24	575	1210	-392.5	SLE RA 9	0.00768	0.00299	-0.06644	-0.003	0.004	-0.0094
24	575	1210	-392.5	SLE RA 10	-0.03134	0	-0.09419	0	-0.0163	0
24	575	1210	-392.5	SLE RA 11	-0.02145	0.00299	-0.08562	-0.003	-0.0112	-0.0094
24	575	1210	-392.5	SLE RA 12	-0.01674	0	-0.08527	0	-0.0087	0
24	575	1210	-392.5	SLE RA 13	-0.00686	0.00299	-0.0767	-0.003	-0.0036	-0.0094
24	575	1210	-392.5	SLE FR 1	-0.02172	0	-0.08557	0	-0.0113	0
24	575	1210	-392.5	SLE FR 2	-0.01843	0.001	-0.08271	-0.001	-0.0096	-0.0031
24	575	1210	-392.5	SLE FR 3	-0.01685	0	-0.08259	0	-0.0088	0
24	575	1210	-392.5	SLE FR 4	-0.02364	0	-0.08729	0	-0.0123	0
24	575	1210	-392.5	SLE QP 1	-0.02172	0	-0.08557	0	-0.0113	0
24	575	1210	-392.5	SLD 1	-0.03872	-0.00626	-0.08821	0.0063	-0.0202	0.0231
24	575	1210	-392.5	SLD 2	-0.03872	-0.00626	-0.08821	0.0063	-0.0202	0.0231
24	575	1210	-392.5	SLD 3	-0.03419	0.00626	-0.08784	-0.0063	-0.0178	-0.0231
24	575	1210	-392.5	SLD 4	-0.03419	0.00626	-0.08784	-0.0063	-0.0178	-0.0231
24	575	1210	-392.5	SLD 5	-0.03368	-0.02087	-0.08691	0.0209	-0.0175	0.0771
24	575	1210	-392.5	SLD 6	-0.03368	-0.02087	-0.08691	0.0209	-0.0175	0.0771
24	575	1210	-392.5	SLD 7	-0.0186	0.02088	-0.0857	-0.0209	-0.0097	-0.0771
24	575	1210	-392.5	SLD 8	-0.0186	0.02088	-0.0857	-0.0209	-0.0097	-0.0771
24	575	1210	-392.5	SLD 9	-0.02484	-0.02087	-0.08544	0.0209	-0.0129	0.0771
24	575	1210	-392.5	SLD 10	-0.02484	-0.02087	-0.08544	0.0209	-0.0129	0.0771
24	575	1210	-392.5	SLD 11	-0.00976	0.02088	-0.08422	-0.0209	-0.0051	-0.0771
24	575	1210	-392.5	SLD 12	-0.00976	0.02088	-0.08422	-0.0209	-0.0051	-0.0771
24	575	1210	-392.5	SLD 13	-0.00925	-0.00626	-0.08329	0.0063	-0.0048	0.0231
24	575	1210	-392.5	SLD 14	-0.00925	-0.00626	-0.08329	0.0063	-0.0048	0.0231
24	575	1210	-392.5	SLD 15	-0.00472	0.00626	-0.08293	-0.0063	-0.0025	-0.0231
24	575	1210	-392.5	SLD 16	-0.00472	0.00626	-0.08293	-0.0063	-0.0025	-0.0231
24	575	1210	-392.5	SLV 1	-0.06539	-0.01609	-0.09235	0.0161	-0.0341	0.0594
24	575	1210	-392.5	SLV 2	-0.06539	-0.01609	-0.09235	0.0161	-0.0341	0.0594
24	575	1210	-392.5	SLV 3	-0.05377	0.01609	-0.09141	-0.0161	-0.028	-0.0595
24	575	1210	-392.5	SLV 4	-0.05377	0.01609	-0.09141	-0.0161	-0.028	-0.0595
24	575	1210	-392.5	SLV 5	-0.05245	-0.05362	-0.08902	0.0536	-0.0273	0.198
24	575	1210	-392.5	SLV 6	-0.05245	-0.05362	-0.08902	0.0536	-0.0273	0.198
24	575	1210	-392.5	SLV 7	-0.0137	0.05363	-0.0859	-0.0536	-0.0071	-0.1982
24	575	1210	-392.5	SLV 8	-0.0137	0.05363	-0.0859	-0.0536	-0.0071	-0.1982
24	575	1210	-392.5	SLV 9	-0.02974	-0.05362	-0.08523	0.0536	-0.0155	0.198
24	575	1210	-392.5	SLV 10	-0.02974	-0.05362	-0.08523	0.0536	-0.0155	0.198
24	575	1210	-392.5	SLV 11	0.00901	0.05363	-0.08211	-0.0536	0.0047	-0.1982
24	575	1210	-392.5	SLV 12	0.00901	0.05363	-0.08211	-0.0536	0.0047	-0.1982

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
24	575	1210	-392.5	SLV 13	0.01032	-0.01609	-0.07972	0.0161	0.0054	0.0594
24	575	1210	-392.5	SLV 14	0.01032	-0.01609	-0.07972	0.0161	0.0054	0.0594
24	575	1210	-392.5	SLV 15	0.02194	0.01609	-0.07878	-0.0161	0.0114	-0.0595
24	575	1210	-392.5	SLV 16	0.02194	0.01609	-0.07878	-0.0161	0.0114	-0.0595
24	575	1210	-392.5	SLV FO 1	-0.06539	-0.01609	-0.09235	0.0161	-0.0341	0.0594
24	575	1210	-392.5	SLV FO 2	-0.06539	-0.01609	-0.09235	0.0161	-0.0341	0.0594
24	575	1210	-392.5	SLV FO 3	-0.05377	0.01609	-0.09141	-0.0161	-0.028	-0.0595
24	575	1210	-392.5	SLV FO 4	-0.05377	0.01609	-0.09141	-0.0161	-0.028	-0.0595
24	575	1210	-392.5	SLV FO 5	-0.05245	-0.05362	-0.08902	0.0536	-0.0273	0.198
24	575	1210	-392.5	SLV FO 6	-0.05245	-0.05362	-0.08902	0.0536	-0.0273	0.198
24	575	1210	-392.5	SLV FO 7	-0.0137	0.05363	-0.0859	-0.0536	-0.0071	-0.1982
24	575	1210	-392.5	SLV FO 8	-0.0137	0.05363	-0.0859	-0.0536	-0.0071	-0.1982
24	575	1210	-392.5	SLV FO 9	-0.02974	-0.05362	-0.08523	0.0536	-0.0155	0.198
24	575	1210	-392.5	SLV FO 10	-0.02974	-0.05362	-0.08523	0.0536	-0.0155	0.198
24	575	1210	-392.5	SLV FO 11	0.00901	0.05363	-0.08211	-0.0536	0.0047	-0.1982
24	575	1210	-392.5	SLV FO 12	0.00901	0.05363	-0.08211	-0.0536	0.0047	-0.1982
24	575	1210	-392.5	SLV FO 13	0.01032	-0.01609	-0.07972	0.0161	0.0054	0.0594
24	575	1210	-392.5	SLV FO 14	0.01032	-0.01609	-0.07972	0.0161	0.0054	0.0594
24	575	1210	-392.5	SLV FO 15	0.02194	0.01609	-0.07878	-0.0161	0.0114	-0.0595
24	575	1210	-392.5	SLV FO 16	0.02194	0.01609	-0.07878	-0.0161	0.0114	-0.0595
25	2045	1210	-392.5	SLU 1	0.01639	0	-0.07669	0	0.0085	0
25	2045	1210	-392.5	SLU 2	-0.0001	0.0103	-0.06054	-0.0094	-0.0001	-0.014
25	2045	1210	-392.5	SLU 3	-0.00362	0.0103	-0.05149	-0.0094	-0.0019	-0.014
25	2045	1210	-392.5	SLU 4	0.01051	0	-0.0616	0	0.0055	0
25	2045	1210	-392.5	SLU 5	0.00062	0.00618	-0.05191	-0.0057	0.0003	-0.0084
25	2045	1210	-392.5	SLU 6	0.00579	0.0103	-0.06557	-0.0094	0.003	-0.014
25	2045	1210	-392.5	SLU 7	0.00227	0.0103	-0.05651	-0.0094	0.0012	-0.014
25	2045	1210	-392.5	SLU 8	0.0164	0	-0.06662	0	0.0085	0
25	2045	1210	-392.5	SLU 9	0.00651	0.00618	-0.05693	-0.0057	0.0034	-0.0084
25	2045	1210	-392.5	SLU 10	0.02818	0	-0.08674	0	0.0147	0
25	2045	1210	-392.5	SLU 11	0.01828	0.00618	-0.07705	-0.0057	0.0095	-0.0084
25	2045	1210	-392.5	SLU 12	0.02464	0	-0.07768	0	0.0128	0
25	2045	1210	-392.5	SLU 13	0.01475	0.00618	-0.06799	-0.0057	0.0077	-0.0084
25	2045	1210	-392.5	SLU 14	0.02182	0	-0.08139	0	0.0114	0
25	2045	1210	-392.5	SLU 15	0.00533	0.0103	-0.06524	-0.0094	0.0028	-0.014
25	2045	1210	-392.5	SLU 16	0.00181	0.0103	-0.05618	-0.0094	0.0009	-0.014
25	2045	1210	-392.5	SLU 17	0.01594	0	-0.06629	0	0.0083	0
25	2045	1210	-392.5	SLU 18	0.00605	0.00618	-0.0566	-0.0057	0.0031	-0.0084
25	2045	1210	-392.5	SLU 19	0.01122	0.0103	-0.07027	-0.0094	0.0058	-0.014
25	2045	1210	-392.5	SLU 20	0.0077	0.0103	-0.06121	-0.0094	0.004	-0.014
25	2045	1210	-392.5	SLU 21	0.02183	0	-0.07132	0	0.0114	0
25	2045	1210	-392.5	SLU 22	0.01194	0.00618	-0.06163	-0.0057	0.0062	-0.0084
25	2045	1210	-392.5	SLU 23	0.03361	0	-0.09144	0	0.0175	0
25	2045	1210	-392.5	SLU 24	0.02371	0.00618	-0.08175	-0.0057	0.0124	-0.0084
25	2045	1210	-392.5	SLU 25	0.03007	0	-0.08238	0	0.0157	0
25	2045	1210	-392.5	SLU 26	0.02018	0.00618	-0.07269	-0.0057	0.0105	-0.0084
25	2045	1210	-392.5	SLU 27	0.0213	0	-0.0997	0	0.0111	0
25	2045	1210	-392.5	SLU 28	0.00482	0.0103	-0.08355	-0.0094	0.0025	-0.014
25	2045	1210	-392.5	SLU 29	0.00129	0.0103	-0.07449	-0.0094	0.0007	-0.014
25	2045	1210	-392.5	SLU 30	0.01542	0	-0.0846	0	0.008	0
25	2045	1210	-392.5	SLU 31	0.00553	0.00618	-0.07491	-0.0057	0.0029	-0.0084
25	2045	1210	-392.5	SLU 32	0.01071	0.0103	-0.08858	-0.0094	0.0056	-0.014
25	2045	1210	-392.5	SLU 33	0.00718	0.0103	-0.07952	-0.0094	0.0037	-0.014
25	2045	1210	-392.5	SLU 34	0.02132	0	-0.08963	0	0.0111	0
25	2045	1210	-392.5	SLU 35	0.01143	0.00618	-0.07994	-0.0057	0.006	-0.0084
25	2045	1210	-392.5	SLU 36	0.03309	0	-0.10975	0	0.0172	0
25	2045	1210	-392.5	SLU 37	0.0232	0.00618	-0.10006	-0.0057	0.0121	-0.0084
25	2045	1210	-392.5	SLU 38	0.02956	0	-0.10069	0	0.0154	0
25	2045	1210	-392.5	SLU 39	0.01967	0.00618	-0.091	-0.0057	0.0102	-0.0084
25	2045	1210	-392.5	SLU 40	0.02673	0	-0.1044	0	0.0139	0
25	2045	1210	-392.5	SLU 41	0.01024	0.0103	-0.08825	-0.0094	0.0053	-0.014
25	2045	1210	-392.5	SLU 42	0.00672	0.0103	-0.07919	-0.0094	0.0035	-0.014
25	2045	1210	-392.5	SLU 43	0.02085	0	-0.0893	0	0.0109	0
25	2045	1210	-392.5	SLU 44	0.01096	0.00618	-0.07961	-0.0057	0.0057	-0.0084
25	2045	1210	-392.5	SLU 45	0.01614	0.0103	-0.09327	-0.0094	0.0084	-0.014
25	2045	1210	-392.5	SLU 46	0.01261	0.0103	-0.08422	-0.0094	0.0066	-0.014
25	2045	1210	-392.5	SLU 47	0.02674	0	-0.09433	0	0.0139	0
25	2045	1210	-392.5	SLU 48	0.01686	0.00618	-0.08464	-0.0057	0.0088	-0.0084
25	2045	1210	-392.5	SLU 49	0.03852	0	-0.11445	0	0.0201	0
25	2045	1210	-392.5	SLU 50	0.02863	0.00618	-0.10476	-0.0057	0.0149	-0.0084
25	2045	1210	-392.5	SLU 51	0.03499	0	-0.10539	0	0.0182	0
25	2045	1210	-392.5	SLU 52	0.0251	0.00618	-0.0957	-0.0057	0.0131	-0.0084
25	2045	1210	-392.5	SLE RA 1	0.02001	0	-0.07982	0	0.0104	0
25	2045	1210	-392.5	SLE RA 2	0.00901	0.00686	-0.06906	-0.0063	0.0047	-0.0093
25	2045	1210	-392.5	SLE RA 3	0.00666	0.00687	-0.06302	-0.0063	0.0035	-0.0093
25	2045	1210	-392.5	SLE RA 4	0.01609	0	-0.06976	0	0.0084	0
25	2045	1210	-392.5	SLE RA 5	0.00949	0.00412	-0.0633	-0.0038	0.0049	-0.0056
25	2045	1210	-392.5	SLE RA 6	0.01294	0.00686	-0.07241	-0.0063	0.0067	-0.0093
25	2045	1210	-392.5	SLE RA 7	0.01059	0.00687	-0.06637	-0.0063	0.0055	-0.0093
25	2045	1210	-392.5	SLE RA 8	0.02001	0	-0.07311	0	0.0104	0
25	2045	1210	-392.5	SLE RA 9	0.01342	0.00412	-0.06665	-0.0038	0.007	-0.0056
25	2045	1210	-392.5	SLE RA 10	0.02787	0	-0.08652	0	0.0145	0
25	2045	1210	-392.5	SLE RA 11	0.02127	0.00412	-0.08006	-0.0038	0.0111	-0.0056
25	2045	1210	-392.5	SLE RA 12	0.02551	0	-0.08049	0	0.0133	0
25	2045	1210	-392.5	SLE RA 13	0.01892	0.00412	-0.07403	-0.0038	0.0099	-0.0056
25	2045	1210	-392.5	SLE FR 1	0.02001	0	-0.07982	0	0.0104	0
25	2045	1210	-392.5	SLE FR 2	0.01781	0.00137	-0.07767	-0.0013	0.0093	-0.0019
25	2045	1210	-392.5	SLE FR 3	0.01922	0	-0.07781	0	0.01	0
25	2045	1210	-392.5	SLE FR 4	0.02158	0	-0.08116	0	0.0112	0
25	2045	1210	-392.5	SLE QP 1	0.02001	0	-0.07982	0	0.0104	0
25	2045	1210	-392.5	SLD 1	-0.00827	-0.00681	-0.07684	0.0062	-0.0043	0.0133
25	2045	1210	-392.5	SLD 2	-0.00827	-0.00681	-0.07684	0.0062	-0.0043	0.0133
25	2045	1210	-392.5	SLD 3	0.00023	0.00679	-0.07784	-0.0062	0.0001	-0.0132
25	2045	1210	-392.5	SLD 4	0.00023	0.00679	-0.07784	-0.0062	0.0001	-0.0132
25	2045	1210	-392.5	SLD 5	-0.00137	-0.02268	-0.07742	0.0208	-0.0007	0.0443
25	2045	1210	-392.5	SLD 6	-0.00137	-0.02268	-0.07742	0.0208	-0.0007	0.0443
25	2045	1210	-392.5	SLD 7	0.02696	0.02264	-0.08073	-0.0207	0.014	-0.0441
25	2045	1210	-392.5	SLD 8	0.02696	0.02264	-0.08073	-0.0207	0.014	-0.0441
25	2045	1210	-392.5	SLD 9	0.01305	-0.02268	-0.07892	0.0208	0.0068	0.0443
25	2045	1210	-392.5	SLD 10	0.01305	-0.02268	-0.07892	0.0208	0.0068	0.0443
25	2045	1210	-392.5	SLD 11	0.04137	0.02264	-0.08222	-0.0207	0.0215	-0.044
25	2045	1210	-392.5	SLD 12	0.04137	0.02264	-0.08222	-0.0207	0.0215	-0.044
25	2045	1210	-392.5	SLD 13	0.03978	-0.0068	-0.08181	0.0062	0.0207	0.0133

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
25	2045	1210	-392.5	SLD 14	0.03978	-0.0068	-0.08181	0.0062	0.0207	0.0133
25	2045	1210	-392.5	SLD 15	0.04828	0.00679	-0.0828	-0.0062	0.0251	-0.0132
25	2045	1210	-392.5	SLD 16	0.04828	0.00679	-0.0828	-0.0062	0.0251	-0.0132
25	2045	1210	-392.5	SLV 1	-0.05263	-0.01748	-0.07217	0.016	-0.0274	0.0341
25	2045	1210	-392.5	SLV 2	-0.05263	-0.01748	-0.07217	0.016	-0.0274	0.0341
25	2045	1210	-392.5	SLV 3	-0.0308	0.01745	-0.07472	-0.016	-0.016	-0.034
25	2045	1210	-392.5	SLV 4	-0.0308	0.01745	-0.07472	-0.016	-0.016	-0.034
25	2045	1210	-392.5	SLV 5	-0.03491	-0.05827	-0.07366	0.0534	-0.0182	0.1137
25	2045	1210	-392.5	SLV 6	-0.03491	-0.05827	-0.07366	0.0534	-0.0182	0.1137
25	2045	1210	-392.5	SLV 7	0.03787	0.05816	-0.08216	-0.0533	0.0197	-0.1132
25	2045	1210	-392.5	SLV 8	0.03787	0.05816	-0.08216	-0.0533	0.0197	-0.1132
25	2045	1210	-392.5	SLV 9	0.00212	-0.05827	-0.07749	0.0534	0.0011	0.1137
25	2045	1210	-392.5	SLV 10	0.00212	-0.05827	-0.07749	0.0534	0.0011	0.1137
25	2045	1210	-392.5	SLV 11	0.0749	0.05816	-0.08599	-0.0533	0.039	-0.1132
25	2045	1210	-392.5	SLV 12	0.0749	0.05816	-0.08599	-0.0533	0.039	-0.1132
25	2045	1210	-392.5	SLV 13	0.07081	-0.01748	-0.08493	0.016	0.0369	0.0341
25	2045	1210	-392.5	SLV 14	0.07081	-0.01748	-0.08493	0.016	0.0369	0.0341
25	2045	1210	-392.5	SLV 15	0.09263	0.01745	-0.08748	-0.016	0.0482	-0.0339
25	2045	1210	-392.5	SLV 16	0.09263	0.01745	-0.08748	-0.016	0.0482	-0.0339
25	2045	1210	-392.5	SLV FO 1	-0.05263	-0.01748	-0.07217	0.016	-0.0274	0.0341
25	2045	1210	-392.5	SLV FO 2	-0.05263	-0.01748	-0.07217	0.016	-0.0274	0.0341
25	2045	1210	-392.5	SLV FO 3	-0.0308	0.01745	-0.07472	-0.016	-0.016	-0.034
25	2045	1210	-392.5	SLV FO 4	-0.0308	0.01745	-0.07472	-0.016	-0.016	-0.034
25	2045	1210	-392.5	SLV FO 5	-0.03491	-0.05827	-0.07366	0.0534	-0.0182	0.1137
25	2045	1210	-392.5	SLV FO 6	-0.03491	-0.05827	-0.07366	0.0534	-0.0182	0.1137
25	2045	1210	-392.5	SLV FO 7	0.03787	0.05816	-0.08216	-0.0533	0.0197	-0.1132
25	2045	1210	-392.5	SLV FO 8	0.03787	0.05816	-0.08216	-0.0533	0.0197	-0.1132
25	2045	1210	-392.5	SLV FO 9	0.00212	-0.05827	-0.07749	0.0534	0.0011	0.1137
25	2045	1210	-392.5	SLV FO 10	0.00212	-0.05827	-0.07749	0.0534	0.0011	0.1137
25	2045	1210	-392.5	SLV FO 11	0.0749	0.05816	-0.08599	-0.0533	0.039	-0.1132
25	2045	1210	-392.5	SLV FO 12	0.0749	0.05816	-0.08599	-0.0533	0.039	-0.1132
25	2045	1210	-392.5	SLV FO 13	0.07081	-0.01748	-0.08493	0.016	0.0369	0.0341
25	2045	1210	-392.5	SLV FO 14	0.07081	-0.01748	-0.08493	0.016	0.0369	0.0341
25	2045	1210	-392.5	SLV FO 15	0.09263	0.01745	-0.08748	-0.016	0.0482	-0.0339
25	2045	1210	-392.5	SLV FO 16	0.09263	0.01745	-0.08748	-0.016	0.0482	-0.0339
26	575	210	-217.5	SLU 1	-0.052	0	-0.0826	0	-0.0139	0
26	575	210	-217.5	SLU 2	0.01462	0.03897	-0.0606	-0.0135	0.0039	-0.0298
26	575	210	-217.5	SLU 3	0.08057	0.03896	-0.04691	-0.0135	0.0215	-0.0298
26	575	210	-217.5	SLU 4	0.05793	0.00001	-0.05978	0	0.0155	0
26	575	210	-217.5	SLU 5	0.09789	0.02338	-0.04658	-0.0081	0.0262	-0.0179
26	575	210	-217.5	SLU 6	-0.0071	0.03898	-0.06722	-0.0136	-0.0019	-0.0298
26	575	210	-217.5	SLU 7	0.05884	0.03896	-0.05353	-0.0135	0.0157	-0.0298
26	575	210	-217.5	SLU 8	0.0362	0	-0.0664	0	0.0097	0
26	575	210	-217.5	SLU 9	0.07616	0.02338	-0.0532	-0.0081	0.0204	-0.0179
26	575	210	-217.5	SLU 10	-0.09546	0	-0.09585	0	-0.0255	0
26	575	210	-217.5	SLU 11	-0.05547	0.02339	-0.08265	-0.0081	-0.0148	-0.0179
26	575	210	-217.5	SLU 12	-0.02951	0	-0.08215	0	-0.0079	0
26	575	210	-217.5	SLU 13	0.01046	0.02338	-0.06895	-0.0081	0.0028	-0.0179
26	575	210	-217.5	SLU 14	-0.07215	0	-0.08888	0	-0.0193	0
26	575	210	-217.5	SLU 15	-0.00552	0.03898	-0.06688	-0.0136	-0.0015	-0.0298
26	575	210	-217.5	SLU 16	0.06042	0.03896	-0.05318	-0.0135	0.0162	-0.0298
26	575	210	-217.5	SLU 17	0.03778	0	-0.06606	0	0.0101	0
26	575	210	-217.5	SLU 18	0.07774	0.02338	-0.05285	-0.0081	0.0208	-0.0179
26	575	210	-217.5	SLU 19	-0.02725	0.03898	-0.0735	-0.0136	-0.0073	-0.0298
26	575	210	-217.5	SLU 20	0.03869	0.03896	-0.05981	-0.0135	0.0103	-0.0298
26	575	210	-217.5	SLU 21	0.01604	0	-0.07268	0	0.0043	0
26	575	210	-217.5	SLU 22	0.05601	0.02338	-0.05948	-0.0081	0.015	-0.0179
26	575	210	-217.5	SLU 23	-0.11561	0	-0.10212	0	-0.0309	0
26	575	210	-217.5	SLU 24	-0.07562	0.02339	-0.08892	-0.0081	-0.0202	-0.0179
26	575	210	-217.5	SLU 25	-0.04966	0	-0.08843	0	-0.0133	0
26	575	210	-217.5	SLU 26	-0.00968	0.02338	-0.07523	-0.0081	-0.0026	-0.0179
26	575	210	-217.5	SLU 27	-0.0676	0	-0.10739	0	-0.0181	0
26	575	210	-217.5	SLU 28	-0.00098	0.03897	-0.08538	-0.0135	-0.0003	-0.0298
26	575	210	-217.5	SLU 29	0.06497	0.03896	-0.07169	-0.0135	0.0174	-0.0298
26	575	210	-217.5	SLU 30	0.04233	0	-0.08456	0	0.0113	0
26	575	210	-217.5	SLU 31	0.08229	0.02338	-0.07136	-0.0081	0.022	-0.0179
26	575	210	-217.5	SLU 32	-0.0227	0.03898	-0.09201	-0.0136	-0.0061	-0.0298
26	575	210	-217.5	SLU 33	0.04324	0.03896	-0.07831	-0.0135	0.0116	-0.0298
26	575	210	-217.5	SLU 34	0.0206	0	-0.09118	0	0.0055	0
26	575	210	-217.5	SLU 35	0.06056	0.02338	-0.07798	-0.0081	0.0162	-0.0179
26	575	210	-217.5	SLU 36	-0.11106	0	-0.12063	0	-0.0297	0
26	575	210	-217.5	SLU 37	-0.07107	0.02339	-0.10743	-0.0081	-0.019	-0.0179
26	575	210	-217.5	SLU 38	-0.04511	0	-0.10694	0	-0.0121	0
26	575	210	-217.5	SLU 39	-0.00514	0.02338	-0.09373	-0.0081	-0.0014	-0.0179
26	575	210	-217.5	SLU 40	-0.08775	0	-0.11366	0	-0.0235	0
26	575	210	-217.5	SLU 41	-0.02112	0.03898	-0.09166	-0.0136	-0.0056	-0.0298
26	575	210	-217.5	SLU 42	0.04482	0.03896	-0.07797	-0.0135	0.012	-0.0298
26	575	210	-217.5	SLU 43	0.02217	0	-0.09084	0	0.0059	0
26	575	210	-217.5	SLU 44	0.06214	0.02338	-0.07764	-0.0081	0.0166	-0.0179
26	575	210	-217.5	SLU 45	-0.04285	0.03898	-0.09828	-0.0136	-0.0115	-0.0299
26	575	210	-217.5	SLU 46	0.02309	0.03896	-0.08459	-0.0135	0.0062	-0.0298
26	575	210	-217.5	SLU 47	0.00044	0	-0.09746	0	0.0001	0
26	575	210	-217.5	SLU 48	0.04041	0.02338	-0.08426	-0.0081	0.0108	-0.0179
26	575	210	-217.5	SLU 49	-0.13121	0	-0.12691	0	-0.0351	0
26	575	210	-217.5	SLU 50	-0.09122	0.02339	-0.1137	-0.0081	-0.0244	-0.0179
26	575	210	-217.5	SLU 51	-0.06526	0	-0.11321	0	-0.0174	0
26	575	210	-217.5	SLU 52	-0.02528	0.02339	-0.10001	-0.0081	-0.0068	-0.0179
26	575	210	-217.5	SLE RA 1	-0.06543	0	-0.08679	0	-0.0175	0
26	575	210	-217.5	SLE RA 2	-0.02102	0.02599	-0.07212	-0.009	-0.0056	-0.0199
26	575	210	-217.5	SLE RA 3	0.02294	0.02597	-0.06299	-0.009	0.0061	-0.0199
26	575	210	-217.5	SLE RA 4	0.00785	0	-0.07157	0	0.0021	0
26	575	210	-217.5	SLE RA 5	0.03449	0.01559	-0.06277	-0.0054	0.0092	-0.0119
26	575	210	-217.5	SLE RA 6	-0.03549	0.02599	-0.07653	-0.009	-0.0095	-0.0199
26	575	210	-217.5	SLE RA 7	0.00846	0.02598	-0.06741	-0.009	0.0023	-0.0199
26	575	210	-217.5	SLE RA 8	-0.00664	0	-0.07599	0	-0.0018	0
26	575	210	-217.5	SLE RA 9	0.02	0.01558	-0.06719	-0.0054	0.0053	-0.0119
26	575	210	-217.5	SLE RA 10	-0.0944	0	-0.09562	0	-0.0252	0
26	575	210	-217.5	SLE RA 11	-0.06775	0.01559	-0.08682	-0.0054	-0.0181	-0.0119
26	575	210	-217.5	SLE RA 12	-0.05044	0	-0.08649	0	-0.0135	0
26	575	210	-217.5	SLE RA 13	-0.02379	0.01559	-0.07769	-0.0054	-0.0064	-0.0119

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
26	575	210	-217.5	SLE FR 1	-0.06543	0	-0.08679	0	-0.0175	0
26	575	210	-217.5	SLE FR 2	-0.05655	0.0052	-0.08385	-0.0018	-0.0151	-0.004
26	575	210	-217.5	SLE FR 3	-0.05078	0	-0.08375	0	-0.0136	0
26	575	210	-217.5	SLE FR 4	-0.07123	0	-0.08855	0	-0.019	0
26	575	210	-217.5	SLE QP 1	-0.06543	0	-0.08679	0	-0.0175	0
26	575	210	-217.5	SLD 1	-0.10302	-0.03258	-0.08912	0.0113	-0.0275	0.0296
26	575	210	-217.5	SLD 2	-0.10302	-0.03258	-0.08912	0.0113	-0.0275	0.0296
26	575	210	-217.5	SLD 3	-0.11665	0.03258	-0.08949	-0.0113	-0.0312	-0.0295
26	575	210	-217.5	SLD 4	-0.11665	0.03258	-0.08949	-0.0113	-0.0312	-0.0295
26	575	210	-217.5	SLD 5	-0.05604	-0.10859	-0.08692	0.0378	-0.015	0.0986
26	575	210	-217.5	SLD 6	-0.05604	-0.10859	-0.08692	0.0378	-0.015	0.0986
26	575	210	-217.5	SLD 7	-0.10148	0.10861	-0.08817	-0.0378	-0.0271	-0.0985
26	575	210	-217.5	SLD 8	-0.10148	0.10861	-0.08817	-0.0378	-0.0271	-0.0985
26	575	210	-217.5	SLD 9	-0.0294	-0.10859	-0.08541	0.0378	-0.0079	0.0986
26	575	210	-217.5	SLD 10	-0.0294	-0.10859	-0.08541	0.0378	-0.0079	0.0986
26	575	210	-217.5	SLD 11	-0.07484	0.10862	-0.08666	-0.0378	-0.02	-0.0985
26	575	210	-217.5	SLD 12	-0.07484	0.10862	-0.08666	-0.0378	-0.02	-0.0985
26	575	210	-217.5	SLD 13	-0.01423	-0.03258	-0.08409	0.0113	-0.0038	0.0296
26	575	210	-217.5	SLD 14	-0.01423	-0.03258	-0.08409	0.0113	-0.0038	0.0296
26	575	210	-217.5	SLD 15	-0.02786	0.03259	-0.08446	-0.0113	-0.0074	-0.0296
26	575	210	-217.5	SLD 16	-0.02786	0.03259	-0.08446	-0.0113	-0.0074	-0.0296
26	575	210	-217.5	SLV 1	-0.16198	-0.08369	-0.09277	0.0291	-0.0433	0.076
26	575	210	-217.5	SLV 2	-0.16198	-0.08369	-0.09277	0.0291	-0.0433	0.076
26	575	210	-217.5	SLV 3	-0.197	0.0837	-0.09373	-0.0291	-0.0527	-0.0759
26	575	210	-217.5	SLV 4	-0.197	0.0837	-0.09373	-0.0291	-0.0527	-0.0759
26	575	210	-217.5	SLV 5	-0.04129	-0.27895	-0.08713	0.0971	-0.011	0.2533
26	575	210	-217.5	SLV 6	-0.04129	-0.27895	-0.08713	0.0971	-0.011	0.2533
26	575	210	-217.5	SLV 7	-0.15803	0.27901	-0.09032	-0.0971	-0.0422	-0.253
26	575	210	-217.5	SLV 8	-0.15803	0.27901	-0.09032	-0.0971	-0.0422	-0.253
26	575	210	-217.5	SLV 9	0.02714	-0.27895	-0.08325	0.0971	0.0073	0.2533
26	575	210	-217.5	SLV 10	0.02714	-0.27895	-0.08325	0.0971	0.0073	0.2533
26	575	210	-217.5	SLV 11	-0.0896	0.27901	-0.08645	-0.0971	-0.024	-0.253
26	575	210	-217.5	SLV 12	-0.0896	0.27901	-0.08645	-0.0971	-0.024	-0.253
26	575	210	-217.5	SLV 13	0.06611	-0.08369	-0.07985	0.0291	0.0177	0.076
26	575	210	-217.5	SLV 14	0.06611	-0.08369	-0.07985	0.0291	0.0177	0.076
26	575	210	-217.5	SLV 15	0.0311	0.08371	-0.0808	-0.0291	0.0083	-0.0759
26	575	210	-217.5	SLV 16	0.0311	0.08371	-0.0808	-0.0291	0.0083	-0.0759
26	575	210	-217.5	SLV FO 1	-0.16198	-0.08369	-0.09277	0.0291	-0.0433	0.076
26	575	210	-217.5	SLV FO 2	-0.16198	-0.08369	-0.09277	0.0291	-0.0433	0.076
26	575	210	-217.5	SLV FO 3	-0.197	0.0837	-0.09373	-0.0291	-0.0527	-0.0759
26	575	210	-217.5	SLV FO 4	-0.197	0.0837	-0.09373	-0.0291	-0.0527	-0.0759
26	575	210	-217.5	SLV FO 5	-0.04129	-0.27895	-0.08713	0.0971	-0.011	0.2533
26	575	210	-217.5	SLV FO 6	-0.04129	-0.27895	-0.08713	0.0971	-0.011	0.2533
26	575	210	-217.5	SLV FO 7	-0.15803	0.27901	-0.09032	-0.0971	-0.0422	-0.253
26	575	210	-217.5	SLV FO 8	-0.15803	0.27901	-0.09032	-0.0971	-0.0422	-0.253
26	575	210	-217.5	SLV FO 9	0.02714	-0.27895	-0.08325	0.0971	0.0073	0.2533
26	575	210	-217.5	SLV FO 10	0.02714	-0.27895	-0.08325	0.0971	0.0073	0.2533
26	575	210	-217.5	SLV FO 11	-0.0896	0.27901	-0.08645	-0.0971	-0.024	-0.253
26	575	210	-217.5	SLV FO 12	-0.0896	0.27901	-0.08645	-0.0971	-0.024	-0.253
26	575	210	-217.5	SLV FO 13	0.06611	-0.08369	-0.07985	0.0291	0.0177	0.076
26	575	210	-217.5	SLV FO 14	0.06611	-0.08369	-0.07985	0.0291	0.0177	0.076
26	575	210	-217.5	SLV FO 15	0.0311	0.08371	-0.0808	-0.0291	0.0083	-0.0759
26	575	210	-217.5	SLV FO 16	0.0311	0.08371	-0.0808	-0.0291	0.0083	-0.0759
27	2045	210	-217.5	SLU 1	0.04937	0	-0.07771	0	0.0132	0
27	2045	210	-217.5	SLU 2	-0.01546	0.07609	-0.06057	-0.0239	-0.0041	-0.0307
27	2045	210	-217.5	SLU 3	-0.02611	0.07609	-0.0513	-0.0239	-0.007	-0.0307
27	2045	210	-217.5	SLU 4	0.03166	0.00001	-0.06225	0	0.0085	0
27	2045	210	-217.5	SLU 5	-0.00727	0.04565	-0.05197	-0.0143	-0.0019	-0.0184
27	2045	210	-217.5	SLU 6	0.00231	0.07608	-0.06572	-0.0239	0.0006	-0.0307
27	2045	210	-217.5	SLU 7	-0.00835	0.07609	-0.05644	-0.0239	-0.0022	-0.0307
27	2045	210	-217.5	SLU 8	0.04941	0.00001	-0.0674	0	0.0132	0
27	2045	210	-217.5	SLU 9	0.0105	0.04565	-0.05712	-0.0143	0.0028	-0.0184
27	2045	210	-217.5	SLU 10	0.08489	0.00001	-0.08799	0	0.0227	0
27	2045	210	-217.5	SLU 11	0.04601	0.04565	-0.07771	-0.0143	0.0123	-0.0184
27	2045	210	-217.5	SLU 12	0.07425	0	-0.07872	0	0.0198	0
27	2045	210	-217.5	SLU 13	0.03534	0.04565	-0.06844	-0.0143	0.0094	-0.0184
27	2045	210	-217.5	SLU 14	0.06573	0	-0.08251	0	0.0176	0
27	2045	210	-217.5	SLU 15	0.00091	0.07608	-0.06538	-0.0239	0.0002	-0.0307
27	2045	210	-217.5	SLU 16	-0.00975	0.07609	-0.05611	-0.0239	-0.0026	-0.0307
27	2045	210	-217.5	SLU 17	0.04801	0.00001	-0.06706	0	0.0128	0
27	2045	210	-217.5	SLU 18	0.0091	0.04565	-0.05678	-0.0143	0.0024	-0.0184
27	2045	210	-217.5	SLU 19	0.01867	0.07608	-0.07052	-0.0239	0.005	-0.0307
27	2045	210	-217.5	SLU 20	0.008	0.07609	-0.06125	-0.0239	0.0021	-0.0307
27	2045	210	-217.5	SLU 21	0.06577	0.00001	-0.07221	0	0.0176	0
27	2045	210	-217.5	SLU 22	0.02685	0.04565	-0.06192	-0.0143	0.0072	-0.0184
27	2045	210	-217.5	SLU 23	0.10125	0.00001	-0.0928	0	0.0271	0
27	2045	210	-217.5	SLU 24	0.06237	0.04565	-0.08252	-0.0143	0.0167	-0.0184
27	2045	210	-217.5	SLU 25	0.0906	0	-0.08353	0	0.0242	0
27	2045	210	-217.5	SLU 26	0.05171	0.04565	-0.07325	-0.0143	0.0138	-0.0184
27	2045	210	-217.5	SLU 27	0.06418	0	-0.10102	0	0.0172	0
27	2045	210	-217.5	SLU 28	-0.00065	0.07609	-0.08388	-0.0239	-0.0002	-0.0307
27	2045	210	-217.5	SLU 29	-0.0113	0.07609	-0.07461	-0.0239	-0.003	-0.0307
27	2045	210	-217.5	SLU 30	0.04647	0.00001	-0.08556	0	0.0124	0
27	2045	210	-217.5	SLU 31	0.00754	0.04565	-0.07528	-0.0143	0.002	-0.0184
27	2045	210	-217.5	SLU 32	0.01712	0.07608	-0.08903	-0.0239	0.0046	-0.0307
27	2045	210	-217.5	SLU 33	0.00646	0.07609	-0.07975	-0.0239	0.0017	-0.0307
27	2045	210	-217.5	SLU 34	0.06422	0.00001	-0.09071	0	0.0172	0
27	2045	210	-217.5	SLU 35	0.02531	0.04565	-0.08043	-0.0143	0.0068	-0.0184
27	2045	210	-217.5	SLU 36	0.0997	0.00001	-0.1113	0	0.0267	0
27	2045	210	-217.5	SLU 37	0.06082	0.04565	-0.10102	-0.0143	0.0163	-0.0184
27	2045	210	-217.5	SLU 38	0.08905	0	-0.10203	0	0.0238	0
27	2045	210	-217.5	SLU 39	0.05015	0.04565	-0.09175	-0.0143	0.0134	-0.0184
27	2045	210	-217.5	SLU 40	0.08054	0.00001	-0.10583	0	0.0215	0
27	2045	210	-217.5	SLU 41	0.01572	0.07608	-0.08869	-0.0239	0.0042	-0.0307
27	2045	210	-217.5	SLU 42	0.00506	0.07609	-0.07942	-0.0239	0.0014	-0.0307
27	2045	210	-217.5	SLU 43	0.06282	0.00001	-0.09037	0	0.0168	0
27	2045	210	-217.5	SLU 44	0.02391	0.04565	-0.08009	-0.0143	0.0064	-0.0184
27	2045	210	-217.5	SLU 45	0.03349	0.07608	-0.09384	-0.0239	0.009	-0.0307
27	2045	210	-217.5	SLU 46	0.02282	0.07609	-0.08456	-0.0239	0.0061	-0.0307
27	2045	210	-217.5	SLU 47	0.08057	0.00001	-0.09552	0	0.0215	0
27	2045	210	-217.5	SLU 48	0.04166	0.04565	-0.08524	-0.0143	0.0111	-0.0184
27	2045	210	-217.5	SLU 49	0.11606	0.00001	-0.11611	0	0.031	0
27	2045	210	-217.5	SLU 50	0.07718	0.04565	-0.10583	-0.0143	0.0206	-0.0184

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
27	2045	210	-217.5	SLU 51	0.10543	0	-0.10684	0	0.0282	0
27	2045	210	-217.5	SLU 52	0.06653	0.04565	-0.09656	-0.0143	0.0178	-0.0184
27	2045	210	-217.5	SLE RA 1	0.06028	0	-0.08091	0	0.0161	0
27	2045	210	-217.5	SLE RA 2	0.01707	0.05072	-0.06949	-0.0159	0.0046	-0.0205
27	2045	210	-217.5	SLE RA 3	0.00995	0.05073	-0.06331	-0.0159	0.0027	-0.0205
27	2045	210	-217.5	SLE RA 4	0.04846	0.00001	-0.07061	0	0.013	0
27	2045	210	-217.5	SLE RA 5	0.02252	0.03043	-0.06376	-0.0096	0.006	-0.0123
27	2045	210	-217.5	SLE RA 6	0.02892	0.05072	-0.07292	-0.0159	0.0077	-0.0205
27	2045	210	-217.5	SLE RA 7	0.0218	0.05072	-0.06674	-0.0159	0.0058	-0.0205
27	2045	210	-217.5	SLE RA 8	0.0603	0	-0.07404	0	0.0161	0
27	2045	210	-217.5	SLE RA 9	0.03435	0.03044	-0.06718	-0.0096	0.0092	-0.0123
27	2045	210	-217.5	SLE RA 10	0.08396	0.00001	-0.08777	0	0.0224	0
27	2045	210	-217.5	SLE RA 11	0.05804	0.03043	-0.08092	-0.0096	0.0155	-0.0123
27	2045	210	-217.5	SLE RA 12	0.07687	0	-0.08159	0	0.0206	0
27	2045	210	-217.5	SLE RA 13	0.05093	0.03043	-0.07474	-0.0096	0.0136	-0.0123
27	2045	210	-217.5	SLE FR 1	0.06028	0	-0.08091	0	0.0161	0
27	2045	210	-217.5	SLE FR 2	0.05164	0.01014	-0.07863	-0.0032	0.0138	-0.0041
27	2045	210	-217.5	SLE FR 3	0.05792	0	-0.07885	0	0.0155	0
27	2045	210	-217.5	SLE FR 4	0.06501	0	-0.08228	0	0.0174	0
27	2045	210	-217.5	SLE QP 1	0.06028	0	-0.08091	0	0.0161	0
27	2045	210	-217.5	SLD 1	0.00069	-0.03273	-0.07888	0.0111	0.0002	0.0169
27	2045	210	-217.5	SLD 2	0.00069	-0.03273	-0.07888	0.0111	0.0002	0.0169
27	2045	210	-217.5	SLD 3	-0.02491	0.0328	-0.07786	-0.0111	-0.0067	-0.017
27	2045	210	-217.5	SLD 4	-0.02491	0.0328	-0.07786	-0.0111	-0.0067	-0.017
27	2045	210	-217.5	SLD 5	0.08121	-0.1091	-0.08184	0.037	0.0217	0.0563
27	2045	210	-217.5	SLD 6	0.08121	-0.1091	-0.08184	0.037	0.0217	0.0563
27	2045	210	-217.5	SLD 7	-0.00413	0.10931	-0.07846	-0.0371	-0.0011	-0.0566
27	2045	210	-217.5	SLD 8	-0.00413	0.10931	-0.07846	-0.0371	-0.0011	-0.0566
27	2045	210	-217.5	SLD 9	0.12464	-0.1091	-0.08337	0.037	0.0333	0.0563
27	2045	210	-217.5	SLD 10	0.12464	-0.1091	-0.08337	0.037	0.0333	0.0563
27	2045	210	-217.5	SLD 11	0.0393	0.10931	-0.07998	-0.0371	0.0105	-0.0566
27	2045	210	-217.5	SLD 12	0.0393	0.10931	-0.07998	-0.0371	0.0105	-0.0566
27	2045	210	-217.5	SLD 13	0.14544	-0.03272	-0.08396	0.0111	0.0389	0.0169
27	2045	210	-217.5	SLD 14	0.14544	-0.03272	-0.08396	0.0111	0.0389	0.0169
27	2045	210	-217.5	SLD 15	0.11985	0.03279	-0.08295	-0.0111	0.032	-0.017
27	2045	210	-217.5	SLD 16	0.11985	0.03279	-0.08295	-0.0111	0.032	-0.017
27	2045	210	-217.5	SLV 1	-0.09279	-0.08408	-0.07568	0.0285	-0.0248	0.0434
27	2045	210	-217.5	SLV 2	-0.09279	-0.08408	-0.07568	0.0285	-0.0248	0.0434
27	2045	210	-217.5	SLV 3	-0.15857	0.08425	-0.07307	-0.0286	-0.0424	-0.0436
27	2045	210	-217.5	SLV 4	-0.15857	0.08425	-0.07307	-0.0286	-0.0424	-0.0436
27	2045	210	-217.5	SLV 5	0.11409	-0.28027	-0.0833	0.0951	0.0305	0.1446
27	2045	210	-217.5	SLV 6	0.11409	-0.28027	-0.0833	0.0951	0.0305	0.1446
27	2045	210	-217.5	SLV 7	-0.10517	0.2808	-0.0746	-0.0953	-0.0281	-0.1453
27	2045	210	-217.5	SLV 8	-0.10517	0.2808	-0.0746	-0.0953	-0.0281	-0.1453
27	2045	210	-217.5	SLV 9	0.22565	-0.28026	-0.08722	0.0951	0.0603	0.1446
27	2045	210	-217.5	SLV 10	0.22565	-0.28026	-0.08722	0.0951	0.0603	0.1446
27	2045	210	-217.5	SLV 11	0.00639	0.2808	-0.07852	-0.0952	0.0017	-0.1453
27	2045	210	-217.5	SLV 12	0.00639	0.2808	-0.07852	-0.0952	0.0017	-0.1453
27	2045	210	-217.5	SLV 13	0.27908	-0.08407	-0.08875	0.0285	0.0746	0.0434
27	2045	210	-217.5	SLV 14	0.27908	-0.08407	-0.08875	0.0285	0.0746	0.0434
27	2045	210	-217.5	SLV 15	0.21332	0.08423	-0.08614	-0.0286	0.057	-0.0436
27	2045	210	-217.5	SLV 16	0.21332	0.08423	-0.08614	-0.0286	0.057	-0.0436
27	2045	210	-217.5	SLV FO 1	-0.09279	-0.08408	-0.07568	0.0285	-0.0248	0.0434
27	2045	210	-217.5	SLV FO 2	-0.09279	-0.08408	-0.07568	0.0285	-0.0248	0.0434
27	2045	210	-217.5	SLV FO 3	-0.15857	0.08425	-0.07307	-0.0286	-0.0424	-0.0436
27	2045	210	-217.5	SLV FO 4	-0.15857	0.08425	-0.07307	-0.0286	-0.0424	-0.0436
27	2045	210	-217.5	SLV FO 5	0.11409	-0.28027	-0.0833	0.0951	0.0305	0.1446
27	2045	210	-217.5	SLV FO 6	0.11409	-0.28027	-0.0833	0.0951	0.0305	0.1446
27	2045	210	-217.5	SLV FO 7	-0.10517	0.2808	-0.0746	-0.0953	-0.0281	-0.1453
27	2045	210	-217.5	SLV FO 8	-0.10517	0.2808	-0.0746	-0.0953	-0.0281	-0.1453
27	2045	210	-217.5	SLV FO 9	0.22565	-0.28026	-0.08722	0.0951	0.0603	0.1446
27	2045	210	-217.5	SLV FO 10	0.22565	-0.28026	-0.08722	0.0951	0.0603	0.1446
27	2045	210	-217.5	SLV FO 11	0.00639	0.2808	-0.07852	-0.0952	0.0017	-0.1453
27	2045	210	-217.5	SLV FO 12	0.00639	0.2808	-0.07852	-0.0952	0.0017	-0.1453
27	2045	210	-217.5	SLV FO 13	0.27908	-0.08407	-0.08875	0.0285	0.0746	0.0434
27	2045	210	-217.5	SLV FO 14	0.27908	-0.08407	-0.08875	0.0285	0.0746	0.0434
27	2045	210	-217.5	SLV FO 15	0.21332	0.08423	-0.08614	-0.0286	0.057	-0.0436
27	2045	210	-217.5	SLV FO 16	0.21332	0.08423	-0.08614	-0.0286	0.057	-0.0436
28	575	710	-217.5	SLU 1	-0.0571	0	-0.08677	0	-0.0153	0
28	575	710	-217.5	SLU 2	0.06503	0.03881	-0.04413	-0.0135	0.0174	-0.0299
28	575	710	-217.5	SLU 3	0.16507	0.0388	-0.01819	-0.0135	0.0441	-0.0299
28	575	710	-217.5	SLU 4	0.10963	0	-0.04354	0	0.0293	0
28	575	710	-217.5	SLU 5	0.18292	0.02328	-0.01795	-0.0081	0.0489	-0.018
28	575	710	-217.5	SLU 6	0.02723	0.03881	-0.05699	-0.0135	0.0073	-0.03
28	575	710	-217.5	SLU 7	0.12728	0.0388	-0.03105	-0.0135	0.034	-0.0299
28	575	710	-217.5	SLU 8	0.07184	0	-0.05639	0	0.0192	0
28	575	710	-217.5	SLU 9	0.14512	0.02328	-0.03081	-0.0081	0.0388	-0.018
28	575	710	-217.5	SLU 10	-0.1327	0	-0.11249	0	-0.0355	0
28	575	710	-217.5	SLU 11	-0.05942	0.02329	-0.0869	-0.0081	-0.0159	-0.018
28	575	710	-217.5	SLU 12	-0.03264	0	-0.08655	0	-0.0087	0
28	575	710	-217.5	SLU 13	0.04064	0.02328	-0.06096	-0.0081	0.0109	-0.018
28	575	710	-217.5	SLU 14	-0.092	0	-0.09895	0	-0.0246	0
28	575	710	-217.5	SLU 15	0.03013	0.03881	-0.05631	-0.0135	0.0081	-0.03
28	575	710	-217.5	SLU 16	0.13018	0.0388	-0.03037	-0.0135	0.0348	-0.0299
28	575	710	-217.5	SLU 17	0.07474	0	-0.05572	0	0.02	0
28	575	710	-217.5	SLU 18	0.14803	0.02328	-0.03013	-0.0081	0.0396	-0.018
28	575	710	-217.5	SLU 19	-0.00766	0.03882	-0.06917	-0.0135	-0.002	-0.03
28	575	710	-217.5	SLU 20	0.09239	0.0388	-0.04323	-0.0135	0.0247	-0.0299
28	575	710	-217.5	SLU 21	0.03695	0	-0.06858	0	0.0099	0
28	575	710	-217.5	SLU 22	0.11023	0.02328	-0.04299	-0.0081	0.0295	-0.018
28	575	710	-217.5	SLU 23	-0.16759	0	-0.12467	0	-0.0448	0
28	575	710	-217.5	SLU 24	-0.09432	0.02329	-0.09908	-0.0081	-0.0252	-0.018
28	575	710	-217.5	SLU 25	-0.06753	0	-0.09873	0	-0.0181	0
28	575	710	-217.5	SLU 26	0.00574	0.02329	-0.07314	-0.0081	0.0015	-0.018
28	575	710	-217.5	SLU 27	-0.07424	0	-0.1128	0	-0.0198	0
28	575	710	-217.5	SLU 28	0.0479	0.03881	-0.07016	-0.0135	0.0128	-0.0299
28	575	710	-217.5	SLU 29	0.14794	0.0388	-0.04422	-0.0135	0.0396	-0.0299
28	575	710	-217.5	SLU 30	0.0925	0	-0.06957	0	0.0247	0
28	575	710	-217.5	SLU 31	0.16579	0.02328	-0.04398	-0.0081	0.0443	-0.018
28	575	710	-217.5	SLU 32	0.0101	0.03882	-0.08302	-0.0135	0.0027	-0.03

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
28	575	710	-217.5	SLU 33	0.11015	0.0388	-0.05708	-0.0135	0.0294	-0.0299
28	575	710	-217.5	SLU 34	0.05471	0	-0.08242	0	0.0146	0
28	575	710	-217.5	SLU 35	0.128	0.02328	-0.05684	-0.0081	0.0342	-0.018
28	575	710	-217.5	SLU 36	-0.14983	0	-0.13852	0	-0.0401	0
28	575	710	-217.5	SLU 37	-0.07655	0.02329	-0.11293	-0.0081	-0.0205	-0.018
28	575	710	-217.5	SLU 38	-0.04977	0	-0.11258	0	-0.0133	0
28	575	710	-217.5	SLU 39	0.02351	0.02328	-0.08699	-0.0081	0.0063	-0.018
28	575	710	-217.5	SLU 40	-0.10913	0	-0.12498	0	-0.0292	0
28	575	710	-217.5	SLU 41	0.013	0.03882	-0.08234	-0.0135	0.0035	-0.03
28	575	710	-217.5	SLU 42	0.11305	0.0388	-0.0564	-0.0135	0.0302	-0.0299
28	575	710	-217.5	SLU 43	0.05761	0	-0.08175	0	0.0154	0
28	575	710	-217.5	SLU 44	0.1309	0.02328	-0.05616	-0.0081	0.035	-0.018
28	575	710	-217.5	SLU 45	-0.0248	0.03882	-0.0952	-0.0135	-0.0066	-0.03
28	575	710	-217.5	SLU 46	0.07526	0.0388	-0.06926	-0.0135	0.0201	-0.0299
28	575	710	-217.5	SLU 47	0.01982	0	-0.09461	0	0.0053	0
28	575	710	-217.5	SLU 48	0.0931	0.02328	-0.06902	-0.0081	0.0249	-0.018
28	575	710	-217.5	SLU 49	-0.18473	0	-0.1507	0	-0.0494	0
28	575	710	-217.5	SLU 50	-0.11145	0.02329	-0.12512	-0.0081	-0.0298	-0.018
28	575	710	-217.5	SLU 51	-0.08468	0	-0.12476	0	-0.0226	0
28	575	710	-217.5	SLU 52	-0.01139	0.02329	-0.09917	-0.0081	-0.003	-0.018
28	575	710	-217.5	SLE RA 1	-0.08037	0	-0.09489	0	-0.0215	0
28	575	710	-217.5	SLE RA 2	0.00105	0.02588	-0.06646	-0.009	0.0003	-0.02
28	575	710	-217.5	SLE RA 3	0.06776	0.02587	-0.04917	-0.009	0.0181	-0.0199
28	575	710	-217.5	SLE RA 4	0.03079	0	-0.06607	0	0.0082	0
28	575	710	-217.5	SLE RA 5	0.07965	0.01552	-0.04901	-0.0054	0.0213	-0.012
28	575	710	-217.5	SLE RA 6	-0.02415	0.02588	-0.07504	-0.009	-0.0065	-0.02
28	575	710	-217.5	SLE RA 7	0.04256	0.02587	-0.05774	-0.009	0.0114	-0.02
28	575	710	-217.5	SLE RA 8	0.0056	0	-0.07464	0	0.0015	0
28	575	710	-217.5	SLE RA 9	0.05445	0.01552	-0.05758	-0.0054	0.0146	-0.012
28	575	710	-217.5	SLE RA 10	-0.13076	0	-0.11204	0	-0.035	0
28	575	710	-217.5	SLE RA 11	-0.08191	0.01553	-0.09498	-0.0054	-0.0219	-0.012
28	575	710	-217.5	SLE RA 12	-0.06407	0	-0.09474	0	-0.0171	0
28	575	710	-217.5	SLE RA 13	-0.01521	0.01553	-0.07769	-0.0054	-0.0041	-0.012
28	575	710	-217.5	SLE FR 1	-0.08037	0	-0.09489	0	-0.0215	0
28	575	710	-217.5	SLE FR 2	-0.06409	0.00518	-0.08921	-0.0018	-0.0171	-0.004
28	575	710	-217.5	SLE FR 3	-0.05814	0	-0.08913	0	-0.0155	0
28	575	710	-217.5	SLE FR 4	-0.09045	0	-0.09832	0	-0.0242	0
28	575	710	-217.5	SLE QP 1	-0.08037	0	-0.09489	0	-0.0215	0
28	575	710	-217.5	SLD 1	-0.12985	-0.0326	-0.09762	0.0113	-0.0347	0.0296
28	575	710	-217.5	SLD 2	-0.12985	-0.0326	-0.09762	0.0113	-0.0347	0.0296
28	575	710	-217.5	SLD 3	-0.12985	0.0326	-0.09762	-0.0113	-0.0347	-0.0296
28	575	710	-217.5	SLD 4	-0.12985	0.0326	-0.09762	-0.0113	-0.0347	-0.0296
28	575	710	-217.5	SLD 5	-0.09519	-0.10866	-0.09571	0.0378	-0.0254	0.0986
28	575	710	-217.5	SLD 6	-0.09519	-0.10866	-0.09571	0.0378	-0.0254	0.0986
28	575	710	-217.5	SLD 7	-0.09519	0.10866	-0.09571	-0.0378	-0.0254	-0.0986
28	575	710	-217.5	SLD 8	-0.09519	0.10866	-0.09571	-0.0378	-0.0254	-0.0986
28	575	710	-217.5	SLD 9	-0.06549	-0.10866	-0.09407	0.0378	-0.0175	0.0986
28	575	710	-217.5	SLD 10	-0.06549	-0.10866	-0.09407	0.0378	-0.0175	0.0986
28	575	710	-217.5	SLD 11	-0.06549	0.10866	-0.09407	-0.0378	-0.0175	-0.0986
28	575	710	-217.5	SLD 12	-0.06549	0.10866	-0.09407	-0.0378	-0.0175	-0.0986
28	575	710	-217.5	SLD 13	-0.03086	-0.0326	-0.09216	0.0113	-0.0082	0.0296
28	575	710	-217.5	SLD 14	-0.03086	-0.0326	-0.09216	0.0113	-0.0082	0.0296
28	575	710	-217.5	SLD 15	-0.03086	0.0326	-0.09216	-0.0113	-0.0082	-0.0296
28	575	710	-217.5	SLD 16	-0.03086	0.0326	-0.09216	-0.0113	-0.0082	-0.0296
28	575	710	-217.5	SLV 1	-0.20749	-0.08374	-0.10191	0.0291	-0.0555	0.076
28	575	710	-217.5	SLV 2	-0.20749	-0.08374	-0.10191	0.0291	-0.0555	0.076
28	575	710	-217.5	SLV 3	-0.20749	0.08374	-0.10191	-0.0291	-0.0555	-0.076
28	575	710	-217.5	SLV 4	-0.20749	0.08374	-0.10191	-0.0291	-0.0555	-0.076
28	575	710	-217.5	SLV 5	-0.11845	-0.27912	-0.097	0.0971	-0.0317	0.2534
28	575	710	-217.5	SLV 6	-0.11845	-0.27912	-0.097	0.0971	-0.0317	0.2534
28	575	710	-217.5	SLV 7	-0.11845	0.27912	-0.097	-0.0971	-0.0317	-0.2534
28	575	710	-217.5	SLV 8	-0.11845	0.27912	-0.097	-0.0971	-0.0317	-0.2534
28	575	710	-217.5	SLV 9	-0.04216	-0.27913	-0.09279	0.0971	-0.0113	0.2534
28	575	710	-217.5	SLV 10	-0.04216	-0.27913	-0.09279	0.0971	-0.0113	0.2534
28	575	710	-217.5	SLV 11	-0.04216	0.27913	-0.09279	-0.0971	-0.0113	-0.2534
28	575	710	-217.5	SLV 12	-0.04216	0.27913	-0.09279	-0.0971	-0.0113	-0.2534
28	575	710	-217.5	SLV 13	0.0468	-0.08375	-0.08788	0.0291	0.0125	0.076
28	575	710	-217.5	SLV 14	0.0468	-0.08375	-0.08788	0.0291	0.0125	0.076
28	575	710	-217.5	SLV 15	0.0468	0.08375	-0.08788	-0.0291	0.0125	-0.076
28	575	710	-217.5	SLV 16	0.0468	0.08375	-0.08788	-0.0291	0.0125	-0.076
28	575	710	-217.5	SLV FO 1	-0.20749	-0.08374	-0.10191	0.0291	-0.0555	0.076
28	575	710	-217.5	SLV FO 2	-0.20749	-0.08374	-0.10191	0.0291	-0.0555	0.076
28	575	710	-217.5	SLV FO 3	-0.20749	0.08374	-0.10191	-0.0291	-0.0555	-0.076
28	575	710	-217.5	SLV FO 4	-0.20749	0.08374	-0.10191	-0.0291	-0.0555	-0.076
28	575	710	-217.5	SLV FO 5	-0.11845	-0.27912	-0.097	0.0971	-0.0317	0.2534
28	575	710	-217.5	SLV FO 6	-0.11845	-0.27912	-0.097	0.0971	-0.0317	0.2534
28	575	710	-217.5	SLV FO 7	-0.11845	0.27912	-0.097	-0.0971	-0.0317	-0.2534
28	575	710	-217.5	SLV FO 8	-0.11845	0.27912	-0.097	-0.0971	-0.0317	-0.2534
28	575	710	-217.5	SLV FO 9	-0.04216	-0.27913	-0.09279	0.0971	-0.0113	0.2534
28	575	710	-217.5	SLV FO 10	-0.04216	-0.27913	-0.09279	0.0971	-0.0113	0.2534
28	575	710	-217.5	SLV FO 11	-0.04216	0.27913	-0.09279	-0.0971	-0.0113	-0.2534
28	575	710	-217.5	SLV FO 12	-0.04216	0.27913	-0.09279	-0.0971	-0.0113	-0.2534
28	575	710	-217.5	SLV FO 13	0.0468	-0.08375	-0.08788	0.0291	0.0125	0.076
28	575	710	-217.5	SLV FO 14	0.0468	-0.08375	-0.08788	0.0291	0.0125	0.076
28	575	710	-217.5	SLV FO 15	0.0468	0.08375	-0.08788	-0.0291	0.0125	-0.076
28	575	710	-217.5	SLV FO 16	0.0468	0.08375	-0.08788	-0.0291	0.0125	-0.076
29	2045	710	-217.5	SLU 1	0.06236	0	-0.08149	0	0.0167	0
29	2045	710	-217.5	SLU 2	-0.08633	0.04966	-0.04648	-0.0168	-0.0231	-0.018
29	2045	710	-217.5	SLU 3	-0.14796	0.04967	-0.02639	-0.0168	-0.0396	-0.018
29	2045	710	-217.5	SLU 4	-0.04038	0	-0.048	0	-0.0108	0
29	2045	710	-217.5	SLU 5	-0.12956	0.02981	-0.02699	-0.0101	-0.0346	-0.0108
29	2045	710	-217.5	SLU 6	-0.0406	0.04965	-0.05717	-0.0168	-0.0109	-0.018
29	2045	710	-217.5	SLU 7	-0.10221	0.04967	-0.03708	-0.0168	-0.0273	-0.018
29	2045	710	-217.5	SLU 8	0.00537	0	-0.05869	0	0.0014	0
29	2045	710	-217.5	SLU 9	-0.08382	0.02981	-0.03768	-0.0101	-0.0224	-0.0108
29	2045	710	-217.5	SLU 10	0.15383	0	-0.10287	0	0.0411	0
29	2045	710	-217.5	SLU 11	0.06461	0.02978	-0.08187	-0.0101	0.0173	-0.0108
29	2045	710	-217.5	SLU 12	0.09223	0	-0.08278	0	0.0247	0
29	2045	710	-217.5	SLU 13	0.00301	0.0298	-0.06177	-0.0101	0.0008	-0.0108
29	2045	710	-217.5	SLU 14	0.10484	0	-0.0915	0	0.028	0
29	2045	710	-217.5	SLU 15	-0.04385	0.04965	-0.05648	-0.0168	-0.0117	-0.018
29	2045	710	-217.5	SLU 16	-0.10547	0.04967	-0.03639	-0.0168	-0.0282	-0.018
29	2045	710	-217.5	SLU 17	0.00211	0	-0.05801	0	0.0006	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
29	2045	710	-217.5	SLU 18	-0.08708	0.02981	-0.037	-0.0101	-0.0233	-0.0108
29	2045	710	-217.5	SLU 19	0.00189	0.04965	-0.06717	-0.0168	0.0005	-0.018
29	2045	710	-217.5	SLU 20	-0.05972	0.04967	-0.04708	-0.0168	-0.016	-0.018
29	2045	710	-217.5	SLU 21	0.04786	0	-0.0687	0	0.0128	0
29	2045	710	-217.5	SLU 22	-0.04134	0.02981	-0.04769	-0.0101	-0.0111	-0.0108
29	2045	710	-217.5	SLU 23	0.19631	0	-0.11288	0	0.0525	0
29	2045	710	-217.5	SLU 24	0.10709	0.02978	-0.09187	-0.0101	0.0286	-0.0108
29	2045	710	-217.5	SLU 25	0.13472	0	-0.09278	0	0.036	0
29	2045	710	-217.5	SLU 26	0.04548	0.02979	-0.07178	-0.0101	0.0122	-0.0108
29	2045	710	-217.5	SLU 27	0.08107	0	-0.10594	0	0.0217	0
29	2045	710	-217.5	SLU 28	-0.06761	0.04966	-0.07093	-0.0168	-0.0181	-0.018
29	2045	710	-217.5	SLU 29	-0.12924	0.04967	-0.05083	-0.0168	-0.0346	-0.018
29	2045	710	-217.5	SLU 30	-0.02166	0	-0.07245	0	-0.0058	0
29	2045	710	-217.5	SLU 31	-0.11085	0.02981	-0.05144	-0.0101	-0.0296	-0.0108
29	2045	710	-217.5	SLU 32	-0.02188	0.04965	-0.08162	-0.0168	-0.0059	-0.018
29	2045	710	-217.5	SLU 33	-0.0835	0.04967	-0.06152	-0.0168	-0.0223	-0.018
29	2045	710	-217.5	SLU 34	0.02409	0	-0.08314	0	0.0064	0
29	2045	710	-217.5	SLU 35	-0.06511	0.02981	-0.06213	-0.0101	-0.0174	-0.0108
29	2045	710	-217.5	SLU 36	0.17254	0	-0.12732	0	0.0461	0
29	2045	710	-217.5	SLU 37	0.08332	0.02978	-0.10631	-0.0101	0.0223	-0.0108
29	2045	710	-217.5	SLU 38	0.11094	0	-0.10723	0	0.0297	0
29	2045	710	-217.5	SLU 39	0.02173	0.0298	-0.08622	-0.0101	0.0058	-0.0108
29	2045	710	-217.5	SLU 40	0.12355	0	-0.11594	0	0.033	0
29	2045	710	-217.5	SLU 41	-0.02514	0.04965	-0.08093	-0.0168	-0.0067	-0.018
29	2045	710	-217.5	SLU 42	-0.08675	0.04967	-0.06084	-0.0168	-0.0232	-0.018
29	2045	710	-217.5	SLU 43	0.02083	0	-0.08245	0	0.0056	0
29	2045	710	-217.5	SLU 44	-0.06837	0.02981	-0.06145	-0.0101	-0.0183	-0.0108
29	2045	710	-217.5	SLU 45	0.02059	0.04964	-0.09162	-0.0168	0.0055	-0.018
29	2045	710	-217.5	SLU 46	-0.04101	0.04967	-0.07153	-0.0168	-0.011	-0.018
29	2045	710	-217.5	SLU 47	0.06658	0	-0.09314	0	0.0178	0
29	2045	710	-217.5	SLU 48	-0.02263	0.02981	-0.07214	-0.0101	-0.006	-0.0108
29	2045	710	-217.5	SLU 49	0.21501	0	-0.13732	0	0.0575	0
29	2045	710	-217.5	SLU 50	0.1258	0.02978	-0.11632	-0.0101	0.0336	-0.0108
29	2045	710	-217.5	SLU 51	0.15339	0	-0.11723	0	0.041	0
29	2045	710	-217.5	SLU 52	0.06419	0.02979	-0.09622	-0.0101	0.0172	-0.0108
29	2045	710	-217.5	SLE RA 1	0.09068	0	-0.08816	0	0.0242	0
29	2045	710	-217.5	SLE RA 2	-0.00844	0.0331	-0.06482	-0.0112	-0.0023	-0.012
29	2045	710	-217.5	SLE RA 3	-0.04952	0.03311	-0.05142	-0.0112	-0.0132	-0.012
29	2045	710	-217.5	SLE RA 4	0.0222	0	-0.06583	0	0.0059	0
29	2045	710	-217.5	SLE RA 5	-0.03726	0.01987	-0.05183	-0.0067	-0.01	-0.0072
29	2045	710	-217.5	SLE RA 6	0.02204	0.03309	-0.07195	-0.0112	0.0059	-0.012
29	2045	710	-217.5	SLE RA 7	-0.01903	0.03311	-0.05855	-0.0112	-0.0051	-0.012
29	2045	710	-217.5	SLE RA 8	0.0527	0	-0.07296	0	0.0141	0
29	2045	710	-217.5	SLE RA 9	-0.00677	0.01987	-0.05896	-0.0067	-0.0018	-0.0072
29	2045	710	-217.5	SLE RA 10	0.15166	0	-0.10242	0	0.0405	0
29	2045	710	-217.5	SLE RA 11	0.09218	0.01985	-0.08841	-0.0067	0.0246	-0.0072
29	2045	710	-217.5	SLE RA 12	0.11058	0	-0.08902	0	0.0296	0
29	2045	710	-217.5	SLE RA 13	0.05111	0.01986	-0.07501	-0.0067	0.0137	-0.0072
29	2045	710	-217.5	SLE FR 1	0.09068	0	-0.08816	0	0.0242	0
29	2045	710	-217.5	SLE FR 2	0.07086	0.00662	-0.08349	-0.0022	0.0189	-0.0024
29	2045	710	-217.5	SLE FR 3	0.07699	0	-0.0837	0	0.0206	0
29	2045	710	-217.5	SLE FR 4	0.10288	0	-0.09101	0	0.0275	0
29	2045	710	-217.5	SLE QP 1	0.09068	0	-0.08816	0	0.0242	0
29	2045	710	-217.5	SLD 1	0.01206	-0.03276	-0.08549	0.0111	0.0032	0.0169
29	2045	710	-217.5	SLD 2	0.01206	-0.03276	-0.08549	0.0111	0.0032	0.0169
29	2045	710	-217.5	SLD 3	0.01206	0.03276	-0.08549	-0.0111	0.0032	-0.0169
29	2045	710	-217.5	SLD 4	0.01206	0.03276	-0.08549	-0.0111	0.0032	-0.0169
29	2045	710	-217.5	SLD 5	0.06712	-0.10921	-0.08736	0.037	0.0179	0.0564
29	2045	710	-217.5	SLD 6	0.06712	-0.10921	-0.08736	0.037	0.0179	0.0564
29	2045	710	-217.5	SLD 7	0.06712	0.10921	-0.08736	-0.037	0.0179	-0.0564
29	2045	710	-217.5	SLD 8	0.06712	0.10921	-0.08736	-0.037	0.0179	-0.0564
29	2045	710	-217.5	SLD 9	0.1143	-0.10921	-0.08897	0.037	0.0306	0.0564
29	2045	710	-217.5	SLD 10	0.1143	-0.10921	-0.08897	0.037	0.0306	0.0564
29	2045	710	-217.5	SLD 11	0.1143	0.10921	-0.08897	-0.037	0.0306	-0.0564
29	2045	710	-217.5	SLD 12	0.1143	0.10921	-0.08897	-0.037	0.0306	-0.0564
29	2045	710	-217.5	SLD 13	0.16933	-0.03276	-0.09084	0.0111	0.0453	0.0169
29	2045	710	-217.5	SLD 14	0.16933	-0.03276	-0.09084	0.0111	0.0453	0.0169
29	2045	710	-217.5	SLD 15	0.16933	0.03276	-0.09084	-0.0111	0.0453	-0.0169
29	2045	710	-217.5	SLD 16	0.16933	0.03276	-0.09084	-0.0111	0.0453	-0.0169
29	2045	710	-217.5	SLV 1	-0.11128	-0.08415	-0.08129	0.0285	-0.0298	0.0435
29	2045	710	-217.5	SLV 2	-0.11128	-0.08415	-0.08129	0.0285	-0.0298	0.0435
29	2045	710	-217.5	SLV 3	-0.11128	0.08415	-0.08129	-0.0285	-0.0298	-0.0435
29	2045	710	-217.5	SLV 4	-0.11128	0.08415	-0.08129	-0.0285	-0.0298	-0.0435
29	2045	710	-217.5	SLV 5	0.03012	-0.28055	-0.0861	0.0952	0.0081	0.1449
29	2045	710	-217.5	SLV 6	0.03012	-0.28055	-0.0861	0.0952	0.0081	0.1449
29	2045	710	-217.5	SLV 7	0.03012	0.28055	-0.0861	-0.0952	0.0081	-0.1449
29	2045	710	-217.5	SLV 8	0.03012	0.28055	-0.0861	-0.0952	0.0081	-0.1449
29	2045	710	-217.5	SLV 9	0.15131	-0.28055	-0.09023	0.0952	0.0405	0.1449
29	2045	710	-217.5	SLV 10	0.15131	-0.28055	-0.09023	0.0952	0.0405	0.1449
29	2045	710	-217.5	SLV 11	0.15131	0.28055	-0.09023	-0.0952	0.0405	-0.1449
29	2045	710	-217.5	SLV 12	0.15131	0.28055	-0.09023	-0.0952	0.0405	-0.1449
29	2045	710	-217.5	SLV 13	0.29269	-0.08417	-0.09504	0.0286	0.0783	0.0435
29	2045	710	-217.5	SLV 14	0.29269	-0.08417	-0.09504	0.0286	0.0783	0.0435
29	2045	710	-217.5	SLV 15	0.29269	0.08417	-0.09504	-0.0286	0.0783	-0.0435
29	2045	710	-217.5	SLV 16	0.29269	0.08417	-0.09504	-0.0286	0.0783	-0.0435
29	2045	710	-217.5	SLV FO 1	-0.11128	-0.08415	-0.08129	0.0285	-0.0298	0.0435
29	2045	710	-217.5	SLV FO 2	-0.11128	-0.08415	-0.08129	0.0285	-0.0298	0.0435
29	2045	710	-217.5	SLV FO 3	-0.11128	0.08415	-0.08129	-0.0285	-0.0298	-0.0435
29	2045	710	-217.5	SLV FO 4	-0.11128	0.08415	-0.08129	-0.0285	-0.0298	-0.0435
29	2045	710	-217.5	SLV FO 5	0.03012	-0.28055	-0.0861	0.0952	0.0081	0.1449
29	2045	710	-217.5	SLV FO 6	0.03012	-0.28055	-0.0861	0.0952	0.0081	0.1449
29	2045	710	-217.5	SLV FO 7	0.03012	0.28055	-0.0861	-0.0952	0.0081	-0.1449
29	2045	710	-217.5	SLV FO 8	0.03012	0.28055	-0.0861	-0.0952	0.0081	-0.1449
29	2045	710	-217.5	SLV FO 9	0.15131	-0.28055	-0.09023	0.0952	0.0405	0.1449
29	2045	710	-217.5	SLV FO 10	0.15131	-0.28055	-0.09023	0.0952	0.0405	0.1449
29	2045	710	-217.5	SLV FO 11	0.15131	0.28055	-0.09023	-0.0952	0.0405	-0.1449
29	2045	710	-217.5	SLV FO 12	0.15131	0.28055	-0.09023	-0.0952	0.0405	-0.1449
29	2045	710	-217.5	SLV FO 13	0.29269	-0.08417	-0.09504	0.0286	0.0783	0.0435
29	2045	710	-217.5	SLV FO 14	0.29269	-0.08417	-0.09504	0.0286	0.0783	0.0435
29	2045	710	-217.5	SLV FO 15	0.29269	0.08417	-0.09504	-0.0286	0.0783	-0.0435

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
29	2045	710	-217.5	SLV FO 16	0.29269	0.08417	-0.09504	-0.0286	0.0783	-0.0435
30	575	1210	-217.5	SLU 1	-0.052	0	-0.0826	0	-0.0139	0
30	575	1210	-217.5	SLU 2	0.02243	0.03879	-0.06068	-0.0135	0.006	-0.0299
30	575	1210	-217.5	SLU 3	0.0884	0.03877	-0.04698	-0.0135	0.0236	-0.0299
30	575	1210	-217.5	SLU 4	0.05793	-0.00001	-0.05978	0	0.0155	0
30	575	1210	-217.5	SLU 5	0.10259	0.02326	-0.04662	-0.0081	0.0274	-0.018
30	575	1210	-217.5	SLU 6	0.0007	0.03879	-0.0673	-0.0135	0.0002	-0.0299
30	575	1210	-217.5	SLU 7	0.06666	0.03877	-0.0536	-0.0135	0.0178	-0.0299
30	575	1210	-217.5	SLU 8	0.0362	0	-0.0664	0	0.0097	0
30	575	1210	-217.5	SLU 9	0.08086	0.02326	-0.05325	-0.0081	0.0216	-0.018
30	575	1210	-217.5	SLU 10	-0.09546	0	-0.09585	0	-0.0255	0
30	575	1210	-217.5	SLU 11	-0.0508	0.02328	-0.08269	-0.0081	-0.0136	-0.018
30	575	1210	-217.5	SLU 12	-0.02951	0	-0.08215	0	-0.0079	0
30	575	1210	-217.5	SLU 13	0.01515	0.02327	-0.069	-0.0081	0.0041	-0.0179
30	575	1210	-217.5	SLU 14	-0.07215	0	-0.08888	0	-0.0193	0
30	575	1210	-217.5	SLU 15	0.00228	0.03879	-0.06695	-0.0135	0.0006	-0.0299
30	575	1210	-217.5	SLU 16	0.06824	0.03877	-0.05326	-0.0135	0.0182	-0.0299
30	575	1210	-217.5	SLU 17	0.03778	0	-0.06606	0	0.0101	0
30	575	1210	-217.5	SLU 18	0.08243	0.02326	-0.0529	-0.0081	0.022	-0.018
30	575	1210	-217.5	SLU 19	-0.01946	0.03879	-0.07358	-0.0135	-0.0052	-0.0299
30	575	1210	-217.5	SLU 20	0.04651	0.03878	-0.05988	-0.0135	0.0124	-0.0299
30	575	1210	-217.5	SLU 21	0.01604	0	-0.07268	0	0.0043	0
30	575	1210	-217.5	SLU 22	0.06071	0.02326	-0.05952	-0.0081	0.0162	-0.0179
30	575	1210	-217.5	SLU 23	-0.11561	0	-0.10212	0	-0.0309	0
30	575	1210	-217.5	SLU 24	-0.07095	0.02328	-0.08897	-0.0081	-0.019	-0.018
30	575	1210	-217.5	SLU 25	-0.04966	0	-0.08843	0	-0.0133	0
30	575	1210	-217.5	SLU 26	-0.005	0.02327	-0.07527	-0.0081	-0.0013	-0.018
30	575	1210	-217.5	SLU 27	-0.0676	0	-0.10739	0	-0.0181	0
30	575	1210	-217.5	SLU 28	0.00683	0.03879	-0.08546	-0.0135	0.0018	-0.0299
30	575	1210	-217.5	SLU 29	0.07279	0.03877	-0.07176	-0.0135	0.0195	-0.0299
30	575	1210	-217.5	SLU 30	0.04233	0	-0.08456	0	0.0113	0
30	575	1210	-217.5	SLU 31	0.08699	0.02326	-0.07141	-0.0081	0.0233	-0.018
30	575	1210	-217.5	SLU 32	-0.0149	0.03879	-0.09208	-0.0135	-0.004	-0.0299
30	575	1210	-217.5	SLU 33	0.05106	0.03877	-0.07839	-0.0135	0.0137	-0.0299
30	575	1210	-217.5	SLU 34	0.0206	0	-0.09118	0	0.0055	0
30	575	1210	-217.5	SLU 35	0.06525	0.02326	-0.07803	-0.0081	0.0174	-0.018
30	575	1210	-217.5	SLU 36	-0.11106	0	-0.12063	0	-0.0297	0
30	575	1210	-217.5	SLU 37	-0.06641	0.02328	-0.10747	-0.0081	-0.0178	-0.018
30	575	1210	-217.5	SLU 38	-0.04511	0	-0.10694	0	-0.0121	0
30	575	1210	-217.5	SLU 39	-0.00045	0.02327	-0.09378	-0.0081	-0.0001	-0.0179
30	575	1210	-217.5	SLU 40	-0.08775	0	-0.11366	0	-0.0235	0
30	575	1210	-217.5	SLU 41	-0.01333	0.03879	-0.09174	-0.0135	-0.0036	-0.0299
30	575	1210	-217.5	SLU 42	0.05264	0.03877	-0.07804	-0.0135	0.0141	-0.0299
30	575	1210	-217.5	SLU 43	0.02217	0	-0.09084	0	0.0059	0
30	575	1210	-217.5	SLU 44	0.06683	0.02326	-0.07768	-0.0081	0.0179	-0.018
30	575	1210	-217.5	SLU 45	-0.03506	0.0388	-0.09836	-0.0135	-0.0094	-0.03
30	575	1210	-217.5	SLU 46	0.0309	0.03878	-0.08466	-0.0135	0.0083	-0.0299
30	575	1210	-217.5	SLU 47	0.00044	0	-0.09746	0	0.0001	0
30	575	1210	-217.5	SLU 48	0.04511	0.02326	-0.0843	-0.0081	0.0121	-0.0179
30	575	1210	-217.5	SLU 49	-0.13121	0	-0.12691	0	-0.0351	0
30	575	1210	-217.5	SLU 50	-0.08656	0.02328	-0.11375	-0.0081	-0.0231	-0.018
30	575	1210	-217.5	SLU 51	-0.06526	0	-0.11321	0	-0.0174	0
30	575	1210	-217.5	SLU 52	-0.0206	0.02327	-0.10006	-0.0081	-0.0055	-0.018
30	575	1210	-217.5	SLE RA 1	-0.06543	0	-0.08679	0	-0.0175	0
30	575	1210	-217.5	SLE RA 2	-0.01582	0.02586	-0.07217	-0.009	-0.0042	-0.02
30	575	1210	-217.5	SLE RA 3	0.02816	0.02585	-0.06304	-0.009	0.0075	-0.0199
30	575	1210	-217.5	SLE RA 4	0.00785	0	-0.07157	0	0.0021	0
30	575	1210	-217.5	SLE RA 5	0.03762	0.01551	-0.0628	-0.0054	0.0101	-0.012
30	575	1210	-217.5	SLE RA 6	-0.03031	0.02587	-0.07659	-0.009	-0.0081	-0.02
30	575	1210	-217.5	SLE RA 7	0.01367	0.02585	-0.06746	-0.009	0.0037	-0.0199
30	575	1210	-217.5	SLE RA 8	-0.00664	0	-0.07599	0	-0.0018	0
30	575	1210	-217.5	SLE RA 9	0.02314	0.01551	-0.06722	-0.0054	0.0062	-0.012
30	575	1210	-217.5	SLE RA 10	-0.0944	0	-0.09562	0	-0.0252	0
30	575	1210	-217.5	SLE RA 11	-0.06464	0.01552	-0.08685	-0.0054	-0.0173	-0.012
30	575	1210	-217.5	SLE RA 12	-0.05044	0	-0.08649	0	-0.0135	0
30	575	1210	-217.5	SLE RA 13	-0.02067	0.01552	-0.07772	-0.0054	-0.0055	-0.012
30	575	1210	-217.5	SLE FR 1	-0.06543	0	-0.08679	0	-0.0175	0
30	575	1210	-217.5	SLE FR 2	-0.05551	0.00517	-0.08387	-0.0018	-0.0148	-0.004
30	575	1210	-217.5	SLE FR 3	-0.05078	0	-0.08375	0	-0.0136	0
30	575	1210	-217.5	SLE FR 4	-0.07123	0	-0.08855	0	-0.019	0
30	575	1210	-217.5	SLE QP 1	-0.06543	0	-0.08679	0	-0.0175	0
30	575	1210	-217.5	SLD 1	-0.11665	-0.03258	-0.08949	0.0113	-0.0312	0.0295
30	575	1210	-217.5	SLD 2	-0.11665	-0.03258	-0.08949	0.0113	-0.0312	0.0295
30	575	1210	-217.5	SLD 3	-0.10302	0.03258	-0.08912	-0.0113	-0.0275	-0.0296
30	575	1210	-217.5	SLD 4	-0.10302	0.03258	-0.08912	-0.0113	-0.0275	-0.0296
30	575	1210	-217.5	SLD 5	-0.10148	-0.10861	-0.08817	0.0378	-0.0271	0.0985
30	575	1210	-217.5	SLD 6	-0.10148	-0.10861	-0.08817	0.0378	-0.0271	0.0985
30	575	1210	-217.5	SLD 7	-0.05604	0.10859	-0.08692	-0.0378	-0.015	-0.0986
30	575	1210	-217.5	SLD 8	-0.05604	0.10859	-0.08692	-0.0378	-0.015	-0.0986
30	575	1210	-217.5	SLD 9	-0.07484	-0.10862	-0.08666	0.0378	-0.02	0.0985
30	575	1210	-217.5	SLD 10	-0.07484	-0.10862	-0.08666	0.0378	-0.02	0.0985
30	575	1210	-217.5	SLD 11	-0.0294	0.10859	-0.08541	-0.0378	-0.0079	-0.0986
30	575	1210	-217.5	SLD 12	-0.0294	0.10859	-0.08541	-0.0378	-0.0079	-0.0986
30	575	1210	-217.5	SLD 13	-0.02786	-0.03259	-0.08446	0.0113	-0.0074	0.0296
30	575	1210	-217.5	SLD 14	-0.02786	-0.03259	-0.08446	0.0113	-0.0074	0.0296
30	575	1210	-217.5	SLD 15	-0.01423	0.03258	-0.08409	-0.0113	-0.0038	-0.0296
30	575	1210	-217.5	SLD 16	-0.01423	0.03258	-0.08409	-0.0113	-0.0038	-0.0296
30	575	1210	-217.5	SLV 1	-0.197	-0.0837	-0.09373	0.0291	-0.0527	0.0759
30	575	1210	-217.5	SLV 2	-0.197	-0.0837	-0.09373	0.0291	-0.0527	0.0759
30	575	1210	-217.5	SLV 3	-0.16198	0.08369	-0.09277	-0.0291	-0.0433	-0.076
30	575	1210	-217.5	SLV 4	-0.16198	0.08369	-0.09277	-0.0291	-0.0433	-0.076
30	575	1210	-217.5	SLV 5	-0.15803	-0.27901	-0.09032	0.0971	-0.0422	0.253
30	575	1210	-217.5	SLV 6	-0.15803	-0.27901	-0.09032	0.0971	-0.0422	0.253
30	575	1210	-217.5	SLV 7	-0.04129	0.27895	-0.08713	-0.0971	-0.011	-0.2533
30	575	1210	-217.5	SLV 8	-0.04129	0.27895	-0.08713	-0.0971	-0.011	-0.2533
30	575	1210	-217.5	SLV 9	-0.0896	-0.27901	-0.08645	0.0971	-0.024	0.253
30	575	1210	-217.5	SLV 10	-0.0896	-0.27901	-0.08645	0.0971	-0.024	0.253
30	575	1210	-217.5	SLV 11	0.02714	0.27895	-0.08325	-0.0971	0.0073	-0.2533
30	575	1210	-217.5	SLV 12	0.02714	0.27895	-0.08325	-0.0971	0.0073	-0.2533
30	575	1210	-217.5	SLV 13	0.0311	-0.08371	-0.0808	0.0291	0.0083	0.0759
30	575	1210	-217.5	SLV 14	0.0311	-0.08371	-0.0808	0.0291	0.0083	0.0759
30	575	1210	-217.5	SLV 15	0.06611	0.08369	-0.07985	-0.0291	0.0177	-0.076
30	575	1210	-217.5	SLV 16	0.06611	0.08369	-0.07985	-0.0291	0.0177	-0.076

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
30	575	1210	-217.5	SLV FO 1	-0.197	-0.0837	-0.09373	0.0291	-0.0527	0.0759
30	575	1210	-217.5	SLV FO 2	-0.197	-0.0837	-0.09373	0.0291	-0.0527	0.0759
30	575	1210	-217.5	SLV FO 3	-0.16198	0.08369	-0.09277	-0.0291	-0.0433	-0.076
30	575	1210	-217.5	SLV FO 4	-0.16198	0.08369	-0.09277	-0.0291	-0.0433	-0.076
30	575	1210	-217.5	SLV FO 5	-0.15803	-0.27901	-0.09032	0.0971	-0.0422	0.253
30	575	1210	-217.5	SLV FO 6	-0.15803	-0.27901	-0.09032	0.0971	-0.0422	0.253
30	575	1210	-217.5	SLV FO 7	-0.04129	0.27895	-0.08713	-0.0971	-0.011	-0.2533
30	575	1210	-217.5	SLV FO 8	-0.04129	0.27895	-0.08713	-0.0971	-0.011	-0.2533
30	575	1210	-217.5	SLV FO 9	-0.0896	-0.27901	-0.08645	0.0971	-0.024	0.253
30	575	1210	-217.5	SLV FO 10	-0.0896	-0.27901	-0.08645	0.0971	-0.024	0.253
30	575	1210	-217.5	SLV FO 11	0.02714	0.27895	-0.08325	-0.0971	0.0073	-0.2533
30	575	1210	-217.5	SLV FO 12	0.02714	0.27895	-0.08325	-0.0971	0.0073	-0.2533
30	575	1210	-217.5	SLV FO 13	0.0311	-0.08371	-0.0808	0.0291	0.0083	0.0759
30	575	1210	-217.5	SLV FO 14	0.0311	-0.08371	-0.0808	0.0291	0.0083	0.0759
30	575	1210	-217.5	SLV FO 15	0.06611	0.08369	-0.07985	-0.0291	0.0177	-0.076
30	575	1210	-217.5	SLV FO 16	0.06611	0.08369	-0.07985	-0.0291	0.0177	-0.076
31	2045	1210	-217.5	SLU 1	0.04937	0	-0.07771	0	0.0132	0
31	2045	1210	-217.5	SLU 2	-0.00029	0.04959	-0.06118	-0.0168	-0.0001	-0.0179
31	2045	1210	-217.5	SLU 3	-0.01091	0.0496	-0.0519	-0.0168	-0.0029	-0.0179
31	2045	1210	-217.5	SLU 4	0.03166	-0.00001	-0.06225	0	0.0085	0
31	2045	1210	-217.5	SLU 5	0.00186	0.02976	-0.05234	-0.0101	0.0005	-0.0107
31	2045	1210	-217.5	SLU 6	0.01746	0.04959	-0.06632	-0.0168	0.0047	-0.0179
31	2045	1210	-217.5	SLU 7	0.00684	0.0496	-0.05705	-0.0168	0.0018	-0.0179
31	2045	1210	-217.5	SLU 8	0.04941	-0.00001	-0.0674	0	0.0132	0
31	2045	1210	-217.5	SLU 9	0.01961	0.02976	-0.05748	-0.0101	0.0052	-0.0107
31	2045	1210	-217.5	SLU 10	0.08489	-0.00001	-0.08799	0	0.0227	0
31	2045	1210	-217.5	SLU 11	0.05508	0.02975	-0.07807	-0.0101	0.0147	-0.0108
31	2045	1210	-217.5	SLU 12	0.07425	0	-0.07872	0	0.0198	0
31	2045	1210	-217.5	SLU 13	0.04445	0.02976	-0.0688	-0.0101	0.0119	-0.0107
31	2045	1210	-217.5	SLU 14	0.06573	0	-0.08251	0	0.0176	0
31	2045	1210	-217.5	SLU 15	0.01606	0.04959	-0.06598	-0.0168	0.0043	-0.0179
31	2045	1210	-217.5	SLU 16	0.00544	0.0496	-0.05671	-0.0168	0.0015	-0.0179
31	2045	1210	-217.5	SLU 17	0.04801	-0.00001	-0.06706	0	0.0128	0
31	2045	1210	-217.5	SLU 18	0.01821	0.02976	-0.05714	-0.0101	0.0049	-0.0107
31	2045	1210	-217.5	SLU 19	0.03381	0.04959	-0.07113	-0.0168	0.009	-0.0179
31	2045	1210	-217.5	SLU 20	0.02319	0.0496	-0.06186	-0.0168	0.0062	-0.0179
31	2045	1210	-217.5	SLU 21	0.06577	-0.00001	-0.07221	0	0.0176	0
31	2045	1210	-217.5	SLU 22	0.03597	0.02976	-0.06229	-0.0101	0.0096	-0.0107
31	2045	1210	-217.5	SLU 23	0.10125	-0.00001	-0.0928	0	0.0271	0
31	2045	1210	-217.5	SLU 24	0.07144	0.02975	-0.08288	-0.0101	0.0191	-0.0108
31	2045	1210	-217.5	SLU 25	0.0906	0	-0.08353	0	0.0242	0
31	2045	1210	-217.5	SLU 26	0.0608	0.02975	-0.07361	-0.0101	0.0163	-0.0107
31	2045	1210	-217.5	SLU 27	0.06418	0	-0.10102	0	0.0172	0
31	2045	1210	-217.5	SLU 28	0.01451	0.04959	-0.08449	-0.0168	0.0039	-0.0179
31	2045	1210	-217.5	SLU 29	0.00389	0.0496	-0.07522	-0.0168	0.001	-0.0179
31	2045	1210	-217.5	SLU 30	0.04647	-0.00001	-0.08556	0	0.0124	0
31	2045	1210	-217.5	SLU 31	0.01667	0.02976	-0.07565	-0.0101	0.0045	-0.0107
31	2045	1210	-217.5	SLU 32	0.03226	0.04959	-0.08963	-0.0168	0.0086	-0.0179
31	2045	1210	-217.5	SLU 33	0.02165	0.0496	-0.08036	-0.0168	0.0058	-0.0179
31	2045	1210	-217.5	SLU 34	0.06422	-0.00001	-0.09071	0	0.0172	0
31	2045	1210	-217.5	SLU 35	0.03442	0.02976	-0.08079	-0.0101	0.0092	-0.0107
31	2045	1210	-217.5	SLU 36	0.0997	-0.00001	-0.1113	0	0.0267	0
31	2045	1210	-217.5	SLU 37	0.06989	0.02975	-0.10139	-0.0101	0.0187	-0.0108
31	2045	1210	-217.5	SLU 38	0.08905	0	-0.10203	0	0.0238	0
31	2045	1210	-217.5	SLU 39	0.05926	0.02976	-0.09211	-0.0101	0.0158	-0.0107
31	2045	1210	-217.5	SLU 40	0.08054	-0.00001	-0.10583	0	0.0215	0
31	2045	1210	-217.5	SLU 41	0.03086	0.04959	-0.0893	-0.0168	0.0083	-0.0179
31	2045	1210	-217.5	SLU 42	0.02025	0.0496	-0.08003	-0.0168	0.0054	-0.0179
31	2045	1210	-217.5	SLU 43	0.06282	-0.00001	-0.09037	0	0.0168	0
31	2045	1210	-217.5	SLU 44	0.03302	0.02976	-0.08046	-0.0101	0.0088	-0.0107
31	2045	1210	-217.5	SLU 45	0.04862	0.04958	-0.09444	-0.0168	0.013	-0.0179
31	2045	1210	-217.5	SLU 46	0.038	0.0496	-0.08517	-0.0168	0.0102	-0.0179
31	2045	1210	-217.5	SLU 47	0.08057	-0.00001	-0.09552	0	0.0215	0
31	2045	1210	-217.5	SLU 48	0.05078	0.02976	-0.0856	-0.0101	0.0136	-0.0107
31	2045	1210	-217.5	SLU 49	0.11606	-0.00001	-0.11611	0	0.031	0
31	2045	1210	-217.5	SLU 50	0.08625	0.02975	-0.1062	-0.0101	0.0231	-0.0108
31	2045	1210	-217.5	SLU 51	0.10543	0	-0.10684	0	0.0282	0
31	2045	1210	-217.5	SLU 52	0.07561	0.02975	-0.09692	-0.0101	0.0202	-0.0107
31	2045	1210	-217.5	SLE RA 1	0.06028	0	-0.08091	0	0.0161	0
31	2045	1210	-217.5	SLE RA 2	0.02716	0.03306	-0.06989	-0.0112	0.0073	-0.0119
31	2045	1210	-217.5	SLE RA 3	0.02008	0.03307	-0.06371	-0.0112	0.0054	-0.0119
31	2045	1210	-217.5	SLE RA 4	0.04846	-0.00001	-0.07061	0	0.013	0
31	2045	1210	-217.5	SLE RA 5	0.0286	0.01984	-0.064	-0.0067	0.0076	-0.0072
31	2045	1210	-217.5	SLE RA 6	0.039	0.03305	-0.07332	-0.0112	0.0104	-0.0119
31	2045	1210	-217.5	SLE RA 7	0.03191	0.03306	-0.06714	-0.0112	0.0085	-0.0119
31	2045	1210	-217.5	SLE RA 8	0.0603	0	-0.07404	0	0.0161	0
31	2045	1210	-217.5	SLE RA 9	0.04044	0.01984	-0.06743	-0.0067	0.0108	-0.0072
31	2045	1210	-217.5	SLE RA 10	0.08396	-0.00001	-0.08777	0	0.0224	0
31	2045	1210	-217.5	SLE RA 11	0.06408	0.01983	-0.08116	-0.0067	0.0171	-0.0072
31	2045	1210	-217.5	SLE RA 12	0.07687	0	-0.08159	0	0.0206	0
31	2045	1210	-217.5	SLE RA 13	0.05699	0.01983	-0.07498	-0.0067	0.0152	-0.0072
31	2045	1210	-217.5	SLE FR 1	0.06028	0	-0.08091	0	0.0161	0
31	2045	1210	-217.5	SLE FR 2	0.05365	0.00661	-0.07871	-0.0022	0.0143	-0.0024
31	2045	1210	-217.5	SLE FR 3	0.05792	0	-0.07885	0	0.0155	0
31	2045	1210	-217.5	SLE FR 4	0.06501	0	-0.08228	0	0.0174	0
31	2045	1210	-217.5	SLE QP 1	0.06028	0	-0.08091	0	0.0161	0
31	2045	1210	-217.5	SLD 1	-0.02491	-0.0328	-0.07786	0.0111	-0.0067	0.017
31	2045	1210	-217.5	SLD 2	-0.02491	-0.0328	-0.07786	0.0111	-0.0067	0.017
31	2045	1210	-217.5	SLD 3	0.00069	0.03273	-0.07888	-0.0111	0.0002	-0.0169
31	2045	1210	-217.5	SLD 4	0.00069	0.03273	-0.07888	-0.0111	0.0002	-0.0169
31	2045	1210	-217.5	SLD 5	-0.00413	-0.10931	-0.07846	0.0371	-0.0011	0.0566
31	2045	1210	-217.5	SLD 6	-0.00413	-0.10931	-0.07846	0.0371	-0.0011	0.0566
31	2045	1210	-217.5	SLD 7	0.08121	0.1091	-0.08184	-0.037	0.0217	-0.0563
31	2045	1210	-217.5	SLD 8	0.08121	0.1091	-0.08184	-0.037	0.0217	-0.0563
31	2045	1210	-217.5	SLD 9	0.0393	-0.10931	-0.07998	0.0371	0.0105	0.0566
31	2045	1210	-217.5	SLD 10	0.0393	-0.10931	-0.07998	0.0371	0.0105	0.0566
31	2045	1210	-217.5	SLD 11	0.12464	0.1091	-0.08337	-0.037	0.0333	-0.0563
31	2045	1210	-217.5	SLD 12	0.12464	0.1091	-0.08337	-0.037	0.0333	-0.0563
31	2045	1210	-217.5	SLD 13	0.11985	-0.03279	-0.08295	0.0111	0.032	0.017
31	2045	1210	-217.5	SLD 14	0.11985	-0.03279	-0.08295	0.0111	0.032	0.017

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
31	2045	1210	-217.5	SLD 15	0.14544	0.03272	-0.08396	-0.0111	0.0389	-0.0169
31	2045	1210	-217.5	SLD 16	0.14544	0.03272	-0.08396	-0.0111	0.0389	-0.0169
31	2045	1210	-217.5	SLV 1	-0.15857	-0.08425	-0.07307	0.0286	-0.0424	0.0436
31	2045	1210	-217.5	SLV 2	-0.15857	-0.08425	-0.07307	0.0286	-0.0424	0.0436
31	2045	1210	-217.5	SLV 3	-0.09279	0.08408	-0.07568	-0.0285	-0.0248	-0.0434
31	2045	1210	-217.5	SLV 4	-0.09279	0.08408	-0.07568	-0.0285	-0.0248	-0.0434
31	2045	1210	-217.5	SLV 5	-0.10517	-0.2808	-0.0746	0.0953	-0.0281	0.1453
31	2045	1210	-217.5	SLV 6	-0.10517	-0.2808	-0.0746	0.0953	-0.0281	0.1453
31	2045	1210	-217.5	SLV 7	0.11409	0.28027	-0.0833	-0.0951	0.0305	-0.1446
31	2045	1210	-217.5	SLV 8	0.11409	0.28027	-0.0833	-0.0951	0.0305	-0.1446
31	2045	1210	-217.5	SLV 9	0.00639	-0.2808	-0.07852	0.0952	0.0017	0.1453
31	2045	1210	-217.5	SLV 10	0.00639	-0.2808	-0.07852	0.0952	0.0017	0.1453
31	2045	1210	-217.5	SLV 11	0.22565	0.28026	-0.08722	-0.0951	0.0603	-0.1446
31	2045	1210	-217.5	SLV 12	0.22565	0.28026	-0.08722	-0.0951	0.0603	-0.1446
31	2045	1210	-217.5	SLV 13	0.21332	-0.08423	-0.08614	0.0286	0.057	0.0436
31	2045	1210	-217.5	SLV 14	0.21332	-0.08423	-0.08614	0.0286	0.057	0.0436
31	2045	1210	-217.5	SLV 15	0.27908	0.08407	-0.08875	-0.0285	0.0746	-0.0434
31	2045	1210	-217.5	SLV 16	0.27908	0.08407	-0.08875	-0.0285	0.0746	-0.0434
31	2045	1210	-217.5	SLV FO 1	-0.15857	-0.08425	-0.07307	0.0286	-0.0424	0.0436
31	2045	1210	-217.5	SLV FO 2	-0.15857	-0.08425	-0.07307	0.0286	-0.0424	0.0436
31	2045	1210	-217.5	SLV FO 3	-0.09279	0.08408	-0.07568	-0.0285	-0.0248	-0.0434
31	2045	1210	-217.5	SLV FO 4	-0.09279	0.08408	-0.07568	-0.0285	-0.0248	-0.0434
31	2045	1210	-217.5	SLV FO 5	-0.10517	-0.2808	-0.0746	0.0953	-0.0281	0.1453
31	2045	1210	-217.5	SLV FO 6	-0.10517	-0.2808	-0.0746	0.0953	-0.0281	0.1453
31	2045	1210	-217.5	SLV FO 7	0.11409	0.28027	-0.0833	-0.0951	0.0305	-0.1446
31	2045	1210	-217.5	SLV FO 8	0.11409	0.28027	-0.0833	-0.0951	0.0305	-0.1446
31	2045	1210	-217.5	SLV FO 9	0.00639	-0.2808	-0.07852	0.0952	0.0017	0.1453
31	2045	1210	-217.5	SLV FO 10	0.00639	-0.2808	-0.07852	0.0952	0.0017	0.1453
31	2045	1210	-217.5	SLV FO 11	0.22565	0.28026	-0.08722	-0.0951	0.0603	-0.1446
31	2045	1210	-217.5	SLV FO 12	0.22565	0.28026	-0.08722	-0.0951	0.0603	-0.1446
31	2045	1210	-217.5	SLV FO 13	0.21332	-0.08423	-0.08614	0.0286	0.057	0.0436
31	2045	1210	-217.5	SLV FO 14	0.21332	-0.08423	-0.08614	0.0286	0.057	0.0436
31	2045	1210	-217.5	SLV FO 15	0.27908	0.08407	-0.08875	-0.0285	0.0746	-0.0434
31	2045	1210	-217.5	SLV FO 16	0.27908	0.08407	-0.08875	-0.0285	0.0746	-0.0434
32	575	210	-130	SLU 1	-0.07507	0	-0.08336	0	-0.016	0
32	575	210	-130	SLU 2	0.02111	0.06232	-0.06103	-0.0169	0.0045	-0.0347
32	575	210	-130	SLU 3	0.11632	0.06231	-0.04713	-0.0169	0.0247	-0.0347
32	575	210	-130	SLU 4	0.08363	0.00001	-0.06019	0	0.0178	0
32	575	210	-130	SLU 5	0.14132	0.03739	-0.04679	-0.0101	0.03	-0.0208
32	575	210	-130	SLU 6	-0.01025	0.06233	-0.06775	-0.0169	-0.0022	-0.0347
32	575	210	-130	SLU 7	0.08495	0.06231	-0.05385	-0.0169	0.0181	-0.0347
32	575	210	-130	SLU 8	0.05226	0.00001	-0.06692	0	0.0111	0
32	575	210	-130	SLU 9	0.10996	0.03739	-0.05352	-0.0101	0.0234	-0.0208
32	575	210	-130	SLU 10	-0.13781	0	-0.09681	0	-0.0293	0
32	575	210	-130	SLU 11	-0.08009	0.03741	-0.08341	-0.0101	-0.017	-0.0208
32	575	210	-130	SLU 12	-0.0426	0	-0.08291	0	-0.0091	0
32	575	210	-130	SLU 13	0.0151	0.03739	-0.0695	-0.0101	0.0032	-0.0208
32	575	210	-130	SLU 14	-0.10417	0	-0.08973	0	-0.0221	0
32	575	210	-130	SLU 15	-0.00797	0.06233	-0.0674	-0.0169	-0.0017	-0.0347
32	575	210	-130	SLU 16	0.08722	0.06231	-0.0535	-0.0169	0.0185	-0.0347
32	575	210	-130	SLU 17	0.05454	0.00001	-0.06656	0	0.0116	0
32	575	210	-130	SLU 18	0.11223	0.03739	-0.05316	-0.0101	0.0239	-0.0208
32	575	210	-130	SLU 19	-0.03934	0.06234	-0.07412	-0.0169	-0.0084	-0.0347
32	575	210	-130	SLU 20	0.05585	0.06231	-0.06022	-0.0169	0.0119	-0.0347
32	575	210	-130	SLU 21	0.02316	0.00001	-0.07329	0	0.0049	0
32	575	210	-130	SLU 22	0.08086	0.03738	-0.05989	-0.0101	0.0172	-0.0208
32	575	210	-130	SLU 23	-0.1669	0	-0.10318	0	-0.0355	0
32	575	210	-130	SLU 24	-0.10918	0.03741	-0.08978	-0.0101	-0.0232	-0.0208
32	575	210	-130	SLU 25	-0.0717	0	-0.08928	0	-0.0152	0
32	575	210	-130	SLU 26	-0.01398	0.0374	-0.07587	-0.0101	-0.003	-0.0208
32	575	210	-130	SLU 27	-0.0976	0	-0.10837	0	-0.0207	0
32	575	210	-130	SLU 28	-0.00141	0.06232	-0.08604	-0.0169	-0.0003	-0.0347
32	575	210	-130	SLU 29	0.09379	0.06231	-0.07214	-0.0169	0.0199	-0.0347
32	575	210	-130	SLU 30	0.06111	0.00001	-0.0852	0	0.013	0
32	575	210	-130	SLU 31	0.1188	0.03739	-0.0718	-0.0101	0.0252	-0.0208
32	575	210	-130	SLU 32	-0.03277	0.06234	-0.09276	-0.0169	-0.007	-0.0347
32	575	210	-130	SLU 33	0.06242	0.06231	-0.07886	-0.0169	0.0133	-0.0347
32	575	210	-130	SLU 34	0.02973	0.00001	-0.09192	0	0.0063	0
32	575	210	-130	SLU 35	0.08743	0.03739	-0.07852	-0.0101	0.0186	-0.0208
32	575	210	-130	SLU 36	-0.16033	0	-0.12182	0	-0.0341	0
32	575	210	-130	SLU 37	-0.10261	0.03741	-0.10841	-0.0101	-0.0218	-0.0208
32	575	210	-130	SLU 38	-0.06513	0	-0.10791	0	-0.0138	0
32	575	210	-130	SLU 39	-0.00742	0.03739	-0.09451	-0.0101	-0.0016	-0.0208
32	575	210	-130	SLU 40	-0.12669	0	-0.11474	0	-0.0269	0
32	575	210	-130	SLU 41	-0.0305	0.06234	-0.09241	-0.0169	-0.0065	-0.0347
32	575	210	-130	SLU 42	0.0647	0.06231	-0.07851	-0.0169	0.0137	-0.0347
32	575	210	-130	SLU 43	0.03201	0.00001	-0.09157	0	0.0068	0
32	575	210	-130	SLU 44	0.08971	0.03739	-0.07817	-0.0101	0.0191	-0.0208
32	575	210	-130	SLU 45	-0.06186	0.06235	-0.09913	-0.0169	-0.0131	-0.0347
32	575	210	-130	SLU 46	0.03333	0.06231	-0.08523	-0.0169	0.0071	-0.0347
32	575	210	-130	SLU 47	0.00064	0.00001	-0.09829	0	0.0001	0
32	575	210	-130	SLU 48	0.05834	0.03739	-0.08489	-0.0101	0.0124	-0.0208
32	575	210	-130	SLU 49	-0.18942	0	-0.12819	0	-0.0403	0
32	575	210	-130	SLU 50	-0.1317	0.03741	-0.11479	-0.0101	-0.028	-0.0208
32	575	210	-130	SLU 51	-0.09421	0	-0.11428	0	-0.02	0
32	575	210	-130	SLU 52	-0.0365	0.0374	-0.10088	-0.0101	-0.0078	-0.0208
32	575	210	-130	SLE RA 1	-0.09447	0	-0.08761	0	-0.0201	0
32	575	210	-130	SLE RA 2	-0.03034	0.04156	-0.07272	-0.0113	-0.0064	-0.0231
32	575	210	-130	SLE RA 3	0.03312	0.04154	-0.06345	-0.0113	0.007	-0.0231
32	575	210	-130	SLE RA 4	0.01133	0	-0.07216	0	0.0024	0
32	575	210	-130	SLE RA 5	0.04979	0.02493	-0.06323	-0.0068	0.0106	-0.0139
32	575	210	-130	SLE RA 6	-0.05124	0.04157	-0.0772	-0.0113	-0.0109	-0.0232
32	575	210	-130	SLE RA 7	0.01221	0.04155	-0.06793	-0.0113	0.0026	-0.0231
32	575	210	-130	SLE RA 8	-0.00959	0	-0.07665	0	-0.002	0
32	575	210	-130	SLE RA 9	0.02888	0.02492	-0.06771	-0.0068	0.0061	-0.0139
32	575	210	-130	SLE RA 10	-0.13629	0	-0.09657	0	-0.029	0
32	575	210	-130	SLE RA 11	-0.09781	0.02494	-0.08764	-0.0068	-0.0208	-0.0139
32	575	210	-130	SLE RA 12	-0.07282	0	-0.0873	0	-0.0155	0
32	575	210	-130	SLE RA 13	-0.03434	0.02493	-0.07837	-0.0068	-0.0073	-0.0139
32	575	210	-130	SLE FR 1	-0.09447	0	-0.08761	0	-0.0201	0
32	575	210	-130	SLE FR 2	-0.08164	0.00831	-0.08463	-0.0023	-0.0173	-0.0046
32	575	210	-130	SLE FR 3	-0.07331	0	-0.08452	0	-0.0156	0
32	575	210	-130	SLE FR 4	-0.10283	0	-0.0894	0	-0.0219	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
32	575	210	-130	SLE QP 1	-0.09447	0	-0.08761	0	-0.0201	0
32	575	210	-130	SLD 1	-0.14873	-0.05212	-0.08998	0.0141	-0.0316	0.0344
32	575	210	-130	SLD 2	-0.14873	-0.05212	-0.08998	0.0141	-0.0316	0.0344
32	575	210	-130	SLD 3	-0.16841	0.05213	-0.09035	-0.0141	-0.0358	-0.0343
32	575	210	-130	SLD 4	-0.16841	0.05213	-0.09035	-0.0141	-0.0358	-0.0343
32	575	210	-130	SLD 5	-0.08091	-0.17374	-0.08775	0.0471	-0.0172	0.1146
32	575	210	-130	SLD 6	-0.08091	-0.17374	-0.08775	0.0471	-0.0172	0.1146
32	575	210	-130	SLD 7	-0.14651	0.17379	-0.08901	-0.0471	-0.0311	-0.1145
32	575	210	-130	SLD 8	-0.14651	0.17379	-0.08901	-0.0471	-0.0311	-0.1145
32	575	210	-130	SLD 9	-0.04245	-0.17374	-0.08621	0.0471	-0.009	0.1146
32	575	210	-130	SLD 10	-0.04245	-0.17374	-0.08621	0.0471	-0.009	0.1146
32	575	210	-130	SLD 11	-0.10805	0.17379	-0.08748	-0.0471	-0.023	-0.1145
32	575	210	-130	SLD 12	-0.10805	0.17379	-0.08748	-0.0471	-0.023	-0.1145
32	575	210	-130	SLD 13	-0.02055	-0.05213	-0.08487	0.0141	-0.0044	0.0344
32	575	210	-130	SLD 14	-0.02055	-0.05213	-0.08487	0.0141	-0.0044	0.0344
32	575	210	-130	SLD 15	-0.04022	0.05215	-0.08525	-0.0141	-0.0085	-0.0344
32	575	210	-130	SLD 16	-0.04022	0.05215	-0.08525	-0.0141	-0.0085	-0.0344
32	575	210	-130	SLV 1	-0.23385	-0.1339	-0.09368	0.0363	-0.0497	0.0884
32	575	210	-130	SLV 2	-0.23385	-0.1339	-0.09368	0.0363	-0.0497	0.0884
32	575	210	-130	SLV 3	-0.28441	0.13393	-0.09466	-0.0363	-0.0604	-0.0882
32	575	210	-130	SLV 4	-0.28441	0.13393	-0.09466	-0.0363	-0.0604	-0.0882
32	575	210	-130	SLV 5	-0.05961	-0.4463	-0.08796	0.1211	-0.0127	0.2945
32	575	210	-130	SLV 6	-0.05961	-0.4463	-0.08796	0.1211	-0.0127	0.2945
32	575	210	-130	SLV 7	-0.22814	0.44642	-0.0912	-0.1211	-0.0485	-0.2942
32	575	210	-130	SLV 8	-0.22814	0.44642	-0.0912	-0.1211	-0.0485	-0.2942
32	575	210	-130	SLV 9	0.03918	-0.44631	-0.08402	0.1211	0.0083	0.2945
32	575	210	-130	SLV 10	0.03918	-0.44631	-0.08402	0.1211	0.0083	0.2945
32	575	210	-130	SLV 11	-0.12935	0.44643	-0.08726	-0.1211	-0.0275	-0.2942
32	575	210	-130	SLV 12	-0.12935	0.44643	-0.08726	-0.1211	-0.0275	-0.2942
32	575	210	-130	SLV 13	0.09545	-0.1339	-0.08056	0.0363	0.0203	0.0883
32	575	210	-130	SLV 14	0.09545	-0.1339	-0.08056	0.0363	0.0203	0.0883
32	575	210	-130	SLV 15	0.0449	0.13394	-0.08154	-0.0363	0.0095	-0.0883
32	575	210	-130	SLV 16	0.0449	0.13394	-0.08154	-0.0363	0.0095	-0.0883
32	575	210	-130	SLV FO 1	-0.23385	-0.1339	-0.09368	0.0363	-0.0497	0.0884
32	575	210	-130	SLV FO 2	-0.23385	-0.1339	-0.09368	0.0363	-0.0497	0.0884
32	575	210	-130	SLV FO 3	-0.28441	0.13393	-0.09466	-0.0363	-0.0604	-0.0882
32	575	210	-130	SLV FO 4	-0.28441	0.13393	-0.09466	-0.0363	-0.0604	-0.0882
32	575	210	-130	SLV FO 5	-0.05961	-0.4463	-0.08796	0.1211	-0.0127	0.2945
32	575	210	-130	SLV FO 6	-0.05961	-0.4463	-0.08796	0.1211	-0.0127	0.2945
32	575	210	-130	SLV FO 7	-0.22814	0.44642	-0.0912	-0.1211	-0.0485	-0.2942
32	575	210	-130	SLV FO 8	-0.22814	0.44642	-0.0912	-0.1211	-0.0485	-0.2942
32	575	210	-130	SLV FO 9	0.03918	-0.44631	-0.08402	0.1211	0.0083	0.2945
32	575	210	-130	SLV FO 10	0.03918	-0.44631	-0.08402	0.1211	0.0083	0.2945
32	575	210	-130	SLV FO 11	-0.12935	0.44643	-0.08726	-0.1211	-0.0275	-0.2942
32	575	210	-130	SLV FO 12	-0.12935	0.44643	-0.08726	-0.1211	-0.0275	-0.2942
32	575	210	-130	SLV FO 13	0.09545	-0.1339	-0.08056	0.0363	0.0203	0.0883
32	575	210	-130	SLV FO 14	0.09545	-0.1339	-0.08056	0.0363	0.0203	0.0883
32	575	210	-130	SLV FO 15	0.0449	0.13394	-0.08154	-0.0363	0.0095	-0.0883
32	575	210	-130	SLV FO 16	0.0449	0.13394	-0.08154	-0.0363	0.0095	-0.0883
33	2045	210	-130	SLU 1	0.07128	0	-0.07839	0	0.0151	0
33	2045	210	-130	SLU 2	-0.02232	0.11673	-0.061	-0.0289	-0.0047	-0.0357
33	2045	210	-130	SLU 3	-0.03769	0.11674	-0.05158	-0.029	-0.008	-0.0357
33	2045	210	-130	SLU 4	0.04571	0.00002	-0.0627	0	0.0097	0
33	2045	210	-130	SLU 5	-0.01049	0.07004	-0.05227	-0.0174	-0.0022	-0.0214
33	2045	210	-130	SLU 6	0.00334	0.11672	-0.06622	-0.0289	0.0007	-0.0357
33	2045	210	-130	SLU 7	-0.01206	0.11674	-0.05681	-0.029	-0.0026	-0.0357
33	2045	210	-130	SLU 8	0.07134	0.00002	-0.06793	0	0.0152	0
33	2045	210	-130	SLU 9	0.01515	0.07004	-0.05749	-0.0174	0.0032	-0.0214
33	2045	210	-130	SLU 10	0.12256	0.00001	-0.08883	0	0.026	0
33	2045	210	-130	SLU 11	0.06642	0.07003	-0.0784	-0.0174	0.0141	-0.0214
33	2045	210	-130	SLU 12	0.10719	0	-0.07942	0	0.0228	0
33	2045	210	-130	SLU 13	0.05102	0.07004	-0.06898	-0.0174	0.0108	-0.0214
33	2045	210	-130	SLU 14	0.0949	0.00001	-0.08327	0	0.0202	0
33	2045	210	-130	SLU 15	0.00132	0.11672	-0.06588	-0.0289	0.0003	-0.0357
33	2045	210	-130	SLU 16	-0.01408	0.11674	-0.05647	-0.029	-0.003	-0.0357
33	2045	210	-130	SLU 17	0.06932	0.00002	-0.06759	0	0.0147	0
33	2045	210	-130	SLU 18	0.01313	0.07004	-0.05715	-0.0174	0.0028	-0.0214
33	2045	210	-130	SLU 19	0.02695	0.11672	-0.0711	-0.0289	0.0057	-0.0357
33	2045	210	-130	SLU 20	0.01155	0.11674	-0.06169	-0.029	0.0025	-0.0357
33	2045	210	-130	SLU 21	0.09495	0.00001	-0.07281	0	0.0202	0
33	2045	210	-130	SLU 22	0.03876	0.07004	-0.06237	-0.0174	0.0082	-0.0214
33	2045	210	-130	SLU 23	0.14618	0.00002	-0.09371	0	0.0311	0
33	2045	210	-130	SLU 24	0.09004	0.07003	-0.08328	-0.0174	0.0191	-0.0214
33	2045	210	-130	SLU 25	0.1308	0	-0.0843	0	0.0278	0
33	2045	210	-130	SLU 26	0.07466	0.07003	-0.07387	-0.0174	0.0159	-0.0214
33	2045	210	-130	SLU 27	0.09266	0	-0.10191	0	0.0197	0
33	2045	210	-130	SLU 28	-0.00093	0.11673	-0.08451	-0.0289	-0.0002	-0.0357
33	2045	210	-130	SLU 29	-0.01631	0.11674	-0.0751	-0.029	-0.0035	-0.0357
33	2045	210	-130	SLU 30	0.06709	0.00002	-0.08622	0	0.0143	0
33	2045	210	-130	SLU 31	0.01089	0.07004	-0.07578	-0.0174	0.0023	-0.0214
33	2045	210	-130	SLU 32	0.02472	0.11672	-0.08974	-0.0289	0.0053	-0.0357
33	2045	210	-130	SLU 33	0.00932	0.11674	-0.08032	-0.029	0.002	-0.0357
33	2045	210	-130	SLU 34	0.09272	0.00002	-0.09144	0	0.0197	0
33	2045	210	-130	SLU 35	0.03653	0.07004	-0.08101	-0.0174	0.0078	-0.0214
33	2045	210	-130	SLU 36	0.14394	0.00001	-0.11235	0	0.0306	0
33	2045	210	-130	SLU 37	0.08781	0.07003	-0.10191	-0.0174	0.0187	-0.0214
33	2045	210	-130	SLU 38	0.12857	0	-0.10294	0	0.0273	0
33	2045	210	-130	SLU 39	0.0724	0.07004	-0.0925	-0.0174	0.0154	-0.0214
33	2045	210	-130	SLU 40	0.11628	0.00001	-0.10679	0	0.0247	0
33	2045	210	-130	SLU 41	0.0227	0.11672	-0.0894	-0.0289	0.0048	-0.0357
33	2045	210	-130	SLU 42	0.0073	0.11674	-0.07998	-0.029	0.0016	-0.0357
33	2045	210	-130	SLU 43	0.09069	0.00002	-0.0911	0	0.0193	0
33	2045	210	-130	SLU 44	0.03451	0.07004	-0.08067	-0.0174	0.0073	-0.0214
33	2045	210	-130	SLU 45	0.04835	0.11672	-0.09462	-0.0289	0.0103	-0.0357
33	2045	210	-130	SLU 46	0.03294	0.11674	-0.0852	-0.029	0.007	-0.0357
33	2045	210	-130	SLU 47	0.11632	0.00001	-0.09632	0	0.0247	0
33	2045	210	-130	SLU 48	0.06014	0.07004	-0.08589	-0.0174	0.0128	-0.0214
33	2045	210	-130	SLU 49	0.16756	0.00002	-0.11723	0	0.0356	0
33	2045	210	-130	SLU 50	0.11143	0.07003	-0.1068	-0.0174	0.0237	-0.0214
33	2045	210	-130	SLU 51	0.1522	0	-0.10782	0	0.0323	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
33	2045	210	-130	SLU 52	0.09604	0.07003	-0.09738	-0.0174	0.0204	-0.0214
33	2045	210	-130	SLE RA 1	0.08702	0.00001	-0.08164	0	0.0185	0
33	2045	210	-130	SLE RA 2	0.02464	0.07781	-0.07005	-0.0193	0.0052	-0.0238
33	2045	210	-130	SLE RA 3	0.01437	0.07783	-0.06377	-0.0193	0.0031	-0.0238
33	2045	210	-130	SLE RA 4	0.06996	0.00001	-0.07119	0	0.0149	0
33	2045	210	-130	SLE RA 5	0.03251	0.04669	-0.06423	-0.0116	0.0069	-0.0143
33	2045	210	-130	SLE RA 6	0.04175	0.07781	-0.07353	-0.0193	0.0089	-0.0238
33	2045	210	-130	SLE RA 7	0.03147	0.07782	-0.06726	-0.0193	0.0067	-0.0238
33	2045	210	-130	SLE RA 8	0.08705	0.00001	-0.07467	0	0.0185	0
33	2045	210	-130	SLE RA 9	0.0496	0.0467	-0.06771	-0.0116	0.0105	-0.0143
33	2045	210	-130	SLE RA 10	0.12121	0.00001	-0.08861	0	0.0258	0
33	2045	210	-130	SLE RA 11	0.08379	0.04669	-0.08165	-0.0116	0.0178	-0.0143
33	2045	210	-130	SLE RA 12	0.11097	0	-0.08233	0	0.0236	0
33	2045	210	-130	SLE RA 13	0.07353	0.04669	-0.07537	-0.0116	0.0156	-0.0143
33	2045	210	-130	SLE FR 1	0.08702	0.00001	-0.08164	0	0.0185	0
33	2045	210	-130	SLE FR 2	0.07455	0.01556	-0.07933	-0.0039	0.0158	-0.0048
33	2045	210	-130	SLE FR 3	0.08361	0	-0.07955	0	0.0178	0
33	2045	210	-130	SLE FR 4	0.09386	0.00001	-0.08304	0	0.0199	0
33	2045	210	-130	SLE QP 1	0.08702	0.00001	-0.08164	0	0.0185	0
33	2045	210	-130	SLD 1	0.001	-0.05181	-0.07958	0.0138	0.0002	0.0197
33	2045	210	-130	SLD 2	0.001	-0.05181	-0.07958	0.0138	0.0002	0.0197
33	2045	210	-130	SLD 3	-0.03596	0.05191	-0.07855	-0.0138	-0.0076	-0.0197
33	2045	210	-130	SLD 4	-0.03596	0.05191	-0.07855	-0.0138	-0.0076	-0.0197
33	2045	210	-130	SLD 5	0.11725	-0.17269	-0.08259	0.0458	0.0249	0.0655
33	2045	210	-130	SLD 6	0.11725	-0.17269	-0.08259	0.0458	0.0249	0.0655
33	2045	210	-130	SLD 7	-0.00596	0.17302	-0.07915	-0.0459	-0.0013	-0.0658
33	2045	210	-130	SLD 8	-0.00596	0.17302	-0.07915	-0.0459	-0.0013	-0.0658
33	2045	210	-130	SLD 9	0.17994	-0.17269	-0.08414	0.0458	0.0382	0.0655
33	2045	210	-130	SLD 10	0.17994	-0.17269	-0.08414	0.0458	0.0382	0.0655
33	2045	210	-130	SLD 11	0.05674	0.17302	-0.0807	-0.0459	0.0121	-0.0658
33	2045	210	-130	SLD 12	0.05674	0.17302	-0.0807	-0.0459	0.0121	-0.0658
33	2045	210	-130	SLD 13	0.20997	-0.0518	-0.08474	0.0137	0.0446	0.0196
33	2045	210	-130	SLD 14	0.20997	-0.0518	-0.08474	0.0137	0.0446	0.0196
33	2045	210	-130	SLD 15	0.17303	0.0519	-0.08371	-0.0138	0.0368	-0.0197
33	2045	210	-130	SLD 16	0.17303	0.0519	-0.08371	-0.0138	0.0368	-0.0197
33	2045	210	-130	SLV 1	-0.13396	-0.13309	-0.07634	0.0353	-0.0285	0.0505
33	2045	210	-130	SLV 2	-0.13396	-0.13309	-0.07634	0.0353	-0.0285	0.0505
33	2045	210	-130	SLV 3	-0.22892	0.13335	-0.07369	-0.0354	-0.0486	-0.0507
33	2045	210	-130	SLV 4	-0.22892	0.13335	-0.07369	-0.0354	-0.0486	-0.0507
33	2045	210	-130	SLV 5	0.16471	-0.44363	-0.08407	0.1177	0.035	0.1682
33	2045	210	-130	SLV 6	0.16471	-0.44363	-0.08407	0.1177	0.035	0.1682
33	2045	210	-130	SLV 7	-0.15184	0.44448	-0.07524	-0.118	-0.0323	-0.169
33	2045	210	-130	SLV 8	-0.15184	0.44448	-0.07524	-0.118	-0.0323	-0.169
33	2045	210	-130	SLV 9	0.32576	-0.44362	-0.08805	0.1177	0.0692	0.1682
33	2045	210	-130	SLV 10	0.32576	-0.44362	-0.08805	0.1177	0.0692	0.1682
33	2045	210	-130	SLV 11	0.00923	0.44447	-0.07922	-0.118	0.002	-0.169
33	2045	210	-130	SLV 12	0.00923	0.44447	-0.07922	-0.118	0.002	-0.169
33	2045	210	-130	SLV 13	0.4029	-0.13307	-0.0896	0.0353	0.0856	0.0504
33	2045	210	-130	SLV 14	0.4029	-0.13307	-0.0896	0.0353	0.0856	0.0504
33	2045	210	-130	SLV 15	0.30797	0.13332	-0.08695	-0.0354	0.0654	-0.0507
33	2045	210	-130	SLV 16	0.30797	0.13332	-0.08695	-0.0354	0.0654	-0.0507
33	2045	210	-130	SLV FO 1	-0.13396	-0.13309	-0.07634	0.0353	-0.0285	0.0505
33	2045	210	-130	SLV FO 2	-0.13396	-0.13309	-0.07634	0.0353	-0.0285	0.0505
33	2045	210	-130	SLV FO 3	-0.22892	0.13335	-0.07369	-0.0354	-0.0486	-0.0507
33	2045	210	-130	SLV FO 4	-0.22892	0.13335	-0.07369	-0.0354	-0.0486	-0.0507
33	2045	210	-130	SLV FO 5	0.16471	-0.44363	-0.08407	0.1177	0.035	0.1682
33	2045	210	-130	SLV FO 6	0.16471	-0.44363	-0.08407	0.1177	0.035	0.1682
33	2045	210	-130	SLV FO 7	-0.15184	0.44448	-0.07524	-0.118	-0.0323	-0.169
33	2045	210	-130	SLV FO 8	-0.15184	0.44448	-0.07524	-0.118	-0.0323	-0.169
33	2045	210	-130	SLV FO 9	0.32576	-0.44362	-0.08805	0.1177	0.0692	0.1682
33	2045	210	-130	SLV FO 10	0.32576	-0.44362	-0.08805	0.1177	0.0692	0.1682
33	2045	210	-130	SLV FO 11	0.00923	0.44447	-0.07922	-0.118	0.002	-0.169
33	2045	210	-130	SLV FO 12	0.00923	0.44447	-0.07922	-0.118	0.002	-0.169
33	2045	210	-130	SLV FO 13	0.4029	-0.13307	-0.0896	0.0353	0.0856	0.0504
33	2045	210	-130	SLV FO 14	0.4029	-0.13307	-0.0896	0.0353	0.0856	0.0504
33	2045	210	-130	SLV FO 15	0.30797	0.13332	-0.08695	-0.0354	0.0654	-0.0507
33	2045	210	-130	SLV FO 16	0.30797	0.13332	-0.08695	-0.0354	0.0654	-0.0507
34	575	710	-130	SLU 1	-0.08244	0	-0.08759	0	-0.0175	0
34	575	710	-130	SLU 2	0.09388	0.06208	-0.04431	-0.0168	0.02	-0.0348
34	575	710	-130	SLU 3	0.23831	0.06206	-0.01797	-0.0168	0.0506	-0.0348
34	575	710	-130	SLU 4	0.15827	0	-0.0437	0	0.0336	0
34	575	710	-130	SLU 5	0.26408	0.03723	-0.01773	-0.0101	0.0561	-0.0209
34	575	710	-130	SLU 6	0.03931	0.06209	-0.05736	-0.0168	0.0084	-0.0348
34	575	710	-130	SLU 7	0.18375	0.06206	-0.03103	-0.0168	0.039	-0.0348
34	575	710	-130	SLU 8	0.10371	0	-0.05676	0	0.022	0
34	575	710	-130	SLU 9	0.20952	0.03723	-0.03078	-0.0101	0.0445	-0.0209
34	575	710	-130	SLU 10	-0.19158	0	-0.1137	0	-0.0407	0
34	575	710	-130	SLU 11	-0.08579	0.03726	-0.08772	-0.0101	-0.0182	-0.0209
34	575	710	-130	SLU 12	-0.04713	0	-0.08736	0	-0.01	0
34	575	710	-130	SLU 13	0.05867	0.03724	-0.06139	-0.0101	0.0125	-0.0209
34	575	710	-130	SLU 14	-0.13282	0	-0.09996	0	-0.0282	0
34	575	710	-130	SLU 15	0.0435	0.06209	-0.05667	-0.0168	0.0092	-0.0348
34	575	710	-130	SLU 16	0.18794	0.06206	-0.03034	-0.0168	0.0399	-0.0348
34	575	710	-130	SLU 17	0.1079	0	-0.05607	0	0.0229	0
34	575	710	-130	SLU 18	0.2137	0.03723	-0.0301	-0.0101	0.0454	-0.0209
34	575	710	-130	SLU 19	-0.01106	0.06209	-0.06972	-0.0168	-0.0024	-0.0348
34	575	710	-130	SLU 20	0.13339	0.06206	-0.04339	-0.0168	0.0283	-0.0348
34	575	710	-130	SLU 21	0.05334	0	-0.06912	0	0.0113	0
34	575	710	-130	SLU 22	0.15914	0.03723	-0.04315	-0.0101	0.0338	-0.0209
34	575	710	-130	SLU 23	-0.24196	0	-0.12606	0	-0.0514	0
34	575	710	-130	SLU 24	-0.13617	0.03726	-0.10009	-0.0101	-0.0289	-0.0209
34	575	710	-130	SLU 25	-0.0975	0	-0.09973	0	-0.0207	0
34	575	710	-130	SLU 26	0.00829	0.03725	-0.07376	-0.0101	0.0018	-0.0209
34	575	710	-130	SLU 27	-0.10717	0	-0.11387	0	-0.0228	0
34	575	710	-130	SLU 28	0.06915	0.06208	-0.07058	-0.0168	0.0147	-0.0348
34	575	710	-130	SLU 29	0.21358	0.06206	-0.04425	-0.0168	0.0454	-0.0348
34	575	710	-130	SLU 30	0.13354	0	-0.06998	0	0.0284	0
34	575	710	-130	SLU 31	0.23935	0.03723	-0.04401	-0.0101	0.0509	-0.0209
34	575	710	-130	SLU 32	0.01458	0.06209	-0.08363	-0.0168	0.0031	-0.0348
34	575	710	-130	SLU 33	0.15903	0.06206	-0.0573	-0.0168	0.0338	-0.0348
34	575	710	-130	SLU 34	0.07898	0	-0.08303	0	0.0168	0
34	575	710	-130	SLU 35	0.18479	0.03723	-0.05706	-0.0101	0.0393	-0.0209
34	575	710	-130	SLU 36	-0.21631	0	-0.13997	0	-0.046	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
34	575	710	-130	SLU 37	-0.11052	0.03726	-0.114	-0.0101	-0.0235	-0.0209
34	575	710	-130	SLU 38	-0.07185	0	-0.11364	0	-0.0153	0
34	575	710	-130	SLU 39	0.03394	0.03724	-0.08767	-0.0101	0.0072	-0.0209
34	575	710	-130	SLU 40	-0.15755	0	-0.12624	0	-0.0335	0
34	575	710	-130	SLU 41	0.01877	0.06209	-0.08295	-0.0168	0.004	-0.0348
34	575	710	-130	SLU 42	0.16321	0.06206	-0.05662	-0.0168	0.0347	-0.0348
34	575	710	-130	SLU 43	0.08317	0	-0.08235	0	0.0177	0
34	575	710	-130	SLU 44	0.18898	0.03723	-0.05638	-0.0101	0.0402	-0.0209
34	575	710	-130	SLU 45	-0.0358	0.06209	-0.096	-0.0168	-0.0076	-0.0348
34	575	710	-130	SLU 46	0.10865	0.06207	-0.06967	-0.0168	0.0231	-0.0348
34	575	710	-130	SLU 47	0.02861	0	-0.0954	0	0.0061	0
34	575	710	-130	SLU 48	0.13441	0.03723	-0.06943	-0.0101	0.0286	-0.0209
34	575	710	-130	SLU 49	-0.26669	0	-0.15234	0	-0.0567	0
34	575	710	-130	SLU 50	-0.1609	0.03726	-0.12637	-0.0101	-0.0342	-0.0209
34	575	710	-130	SLU 51	-0.12225	0	-0.12601	0	-0.026	0
34	575	710	-130	SLU 52	-0.01645	0.03725	-0.10004	-0.0101	-0.0035	-0.0209
34	575	710	-130	SLE RA 1	-0.11603	0	-0.09584	0	-0.0247	0
34	575	710	-130	SLE RA 2	0.00152	0.04139	-0.06698	-0.0112	0.0003	-0.0232
34	575	710	-130	SLE RA 3	0.09782	0.04137	-0.04942	-0.0112	0.0208	-0.0232
34	575	710	-130	SLE RA 4	0.04446	0	-0.06658	0	0.0094	0
34	575	710	-130	SLE RA 5	0.11499	0.02482	-0.04926	-0.0067	0.0244	-0.0139
34	575	710	-130	SLE RA 6	-0.03486	0.0414	-0.07568	-0.0112	-0.0074	-0.0232
34	575	710	-130	SLE RA 7	0.06144	0.04138	-0.05813	-0.0112	0.0131	-0.0232
34	575	710	-130	SLE RA 8	0.00808	0	-0.07528	0	0.0017	0
34	575	710	-130	SLE RA 9	0.07862	0.02482	-0.05797	-0.0067	0.0167	-0.0139
34	575	710	-130	SLE RA 10	-0.18878	0	-0.11324	0	-0.0401	0
34	575	710	-130	SLE RA 11	-0.11826	0.02484	-0.09592	-0.0067	-0.0251	-0.0139
34	575	710	-130	SLE RA 12	-0.09249	0	-0.09568	0	-0.0197	0
34	575	710	-130	SLE RA 13	-0.02195	0.02484	-0.07837	-0.0067	-0.0047	-0.0139
34	575	710	-130	SLE FR 1	-0.11603	0	-0.09584	0	-0.0247	0
34	575	710	-130	SLE FR 2	-0.09252	0.00828	-0.09006	-0.0022	-0.0197	-0.0046
34	575	710	-130	SLE FR 3	-0.08393	0	-0.08998	0	-0.0178	0
34	575	710	-130	SLE FR 4	-0.13058	0	-0.09932	0	-0.0277	0
34	575	710	-130	SLE QP 1	-0.11603	0	-0.09584	0	-0.0247	0
34	575	710	-130	SLD 1	-0.18747	-0.05215	-0.09861	0.0141	-0.0398	0.0344
34	575	710	-130	SLD 2	-0.18747	-0.05215	-0.09861	0.0141	-0.0398	0.0344
34	575	710	-130	SLD 3	-0.18747	0.05215	-0.09861	-0.0141	-0.0398	-0.0344
34	575	710	-130	SLD 4	-0.18747	0.05215	-0.09861	-0.0141	-0.0398	-0.0344
34	575	710	-130	SLD 5	-0.13742	-0.17385	-0.09667	0.0472	-0.0292	0.1147
34	575	710	-130	SLD 6	-0.13742	-0.17385	-0.09667	0.0472	-0.0292	0.1147
34	575	710	-130	SLD 7	-0.13742	0.17385	-0.09667	-0.0472	-0.0292	-0.1147
34	575	710	-130	SLD 8	-0.13742	0.17385	-0.09667	-0.0472	-0.0292	-0.1147
34	575	710	-130	SLD 9	-0.09455	-0.17385	-0.095	0.0472	-0.0201	0.1147
34	575	710	-130	SLD 10	-0.09455	-0.17385	-0.095	0.0472	-0.0201	0.1147
34	575	710	-130	SLD 11	-0.09455	0.17385	-0.095	-0.0472	-0.0201	-0.1147
34	575	710	-130	SLD 12	-0.09455	0.17385	-0.095	-0.0472	-0.0201	-0.1147
34	575	710	-130	SLD 13	-0.04455	-0.05216	-0.09306	0.0142	-0.0095	0.0344
34	575	710	-130	SLD 14	-0.04455	-0.05216	-0.09306	0.0142	-0.0095	0.0344
34	575	710	-130	SLD 15	-0.04455	0.05216	-0.09306	-0.0142	-0.0095	-0.0344
34	575	710	-130	SLD 16	-0.04455	0.05216	-0.09306	-0.0142	-0.0095	-0.0344
34	575	710	-130	SLV 1	-0.29955	-0.13397	-0.10296	0.0363	-0.0637	0.0884
34	575	710	-130	SLV 2	-0.29955	-0.13397	-0.10296	0.0363	-0.0637	0.0884
34	575	710	-130	SLV 3	-0.29955	0.13397	-0.10296	-0.0363	-0.0637	-0.0884
34	575	710	-130	SLV 4	-0.29955	0.13397	-0.10296	-0.0363	-0.0637	-0.0884
34	575	710	-130	SLV 5	-0.171	-0.44658	-0.09797	0.1211	-0.0363	0.2946
34	575	710	-130	SLV 6	-0.171	-0.44658	-0.09797	0.1211	-0.0363	0.2946
34	575	710	-130	SLV 7	-0.171	0.44658	-0.09797	-0.1211	-0.0363	-0.2946
34	575	710	-130	SLV 8	-0.171	0.44658	-0.09797	-0.1211	-0.0363	-0.2946
34	575	710	-130	SLV 9	-0.06087	-0.44659	-0.0937	0.1211	-0.0129	0.2946
34	575	710	-130	SLV 10	-0.06087	-0.44659	-0.0937	0.1211	-0.0129	0.2946
34	575	710	-130	SLV 11	-0.06087	0.44659	-0.0937	-0.1211	-0.0129	-0.2946
34	575	710	-130	SLV 12	-0.06087	0.44659	-0.0937	-0.1211	-0.0129	-0.2946
34	575	710	-130	SLV 13	0.06757	-0.13399	-0.08872	0.0363	0.0144	0.0884
34	575	710	-130	SLV 14	0.06757	-0.13399	-0.08872	0.0363	0.0144	0.0884
34	575	710	-130	SLV 15	0.06757	0.13399	-0.08872	-0.0363	0.0144	-0.0884
34	575	710	-130	SLV 16	0.06757	0.13399	-0.08872	-0.0363	0.0144	-0.0884
34	575	710	-130	SLV FO 1	-0.29955	-0.13397	-0.10296	0.0363	-0.0637	0.0884
34	575	710	-130	SLV FO 2	-0.29955	-0.13397	-0.10296	0.0363	-0.0637	0.0884
34	575	710	-130	SLV FO 3	-0.29955	0.13397	-0.10296	-0.0363	-0.0637	-0.0884
34	575	710	-130	SLV FO 4	-0.29955	0.13397	-0.10296	-0.0363	-0.0637	-0.0884
34	575	710	-130	SLV FO 5	-0.171	-0.44658	-0.09797	0.1211	-0.0363	0.2946
34	575	710	-130	SLV FO 6	-0.171	-0.44658	-0.09797	0.1211	-0.0363	0.2946
34	575	710	-130	SLV FO 7	-0.171	0.44658	-0.09797	-0.1211	-0.0363	-0.2946
34	575	710	-130	SLV FO 8	-0.171	0.44658	-0.09797	-0.1211	-0.0363	-0.2946
34	575	710	-130	SLV FO 9	-0.06087	-0.44659	-0.0937	0.1211	-0.0129	0.2946
34	575	710	-130	SLV FO 10	-0.06087	-0.44659	-0.0937	0.1211	-0.0129	0.2946
34	575	710	-130	SLV FO 11	-0.06087	0.44659	-0.0937	-0.1211	-0.0129	-0.2946
34	575	710	-130	SLV FO 12	-0.06087	0.44659	-0.0937	-0.1211	-0.0129	-0.2946
34	575	710	-130	SLV FO 13	0.06757	-0.13399	-0.08872	0.0363	0.0144	0.0884
34	575	710	-130	SLV FO 14	0.06757	-0.13399	-0.08872	0.0363	0.0144	0.0884
34	575	710	-130	SLV FO 15	0.06757	0.13399	-0.08872	-0.0363	0.0144	-0.0884
34	575	710	-130	SLV FO 16	0.06757	0.13399	-0.08872	-0.0363	0.0144	-0.0884
35	2045	710	-130	SLU 1	0.09003	0	-0.08223	0	0.0191	0
35	2045	710	-130	SLU 2	-0.12463	0.07859	-0.04669	-0.0209	-0.0265	-0.0209
35	2045	710	-130	SLU 3	-0.21361	0.07862	-0.0263	-0.0209	-0.0454	-0.0209
35	2045	710	-130	SLU 4	-0.05829	0	-0.04824	0	-0.0124	0
35	2045	710	-130	SLU 5	-0.18705	0.04719	-0.02691	-0.0125	-0.0397	-0.0125
35	2045	710	-130	SLU 6	-0.05861	0.07858	-0.05754	-0.0209	-0.0125	-0.0209
35	2045	710	-130	SLU 7	-0.14756	0.07861	-0.03715	-0.0209	-0.0314	-0.0209
35	2045	710	-130	SLU 8	0.00776	0	-0.05909	0	0.0016	0
35	2045	710	-130	SLU 9	-0.12102	0.04718	-0.03777	-0.0125	-0.0257	-0.0125
35	2045	710	-130	SLU 10	0.22208	0	-0.10394	0	0.0472	0
35	2045	710	-130	SLU 11	0.09328	0.04714	-0.08261	-0.0125	0.0198	-0.0125
35	2045	710	-130	SLU 12	0.13315	0	-0.08354	0	0.0283	0
35	2045	710	-130	SLU 13	0.00435	0.04716	-0.06222	-0.0125	0.0009	-0.0125
35	2045	710	-130	SLU 14	0.15136	0	-0.09239	0	0.0322	0
35	2045	710	-130	SLU 15	-0.06331	0.07858	-0.05685	-0.0209	-0.0135	-0.0209
35	2045	710	-130	SLU 16	-0.15226	0.07861	-0.03645	-0.0209	-0.0324	-0.0209
35	2045	710	-130	SLU 17	0.00305	0	-0.05839	0	0.0006	0
35	2045	710	-130	SLU 18	-0.12572	0.04718	-0.03707	-0.0125	-0.0267	-0.0125

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
35	2045	710	-130	SLU 19	0.00273	0.07858	-0.0677	-0.0209	0.0006	-0.0209
35	2045	710	-130	SLU 20	-0.08622	0.07861	-0.0473	-0.0209	-0.0183	-0.0209
35	2045	710	-130	SLU 21	0.0691	0	-0.06924	0	0.0147	0
35	2045	710	-130	SLU 22	-0.05969	0.04718	-0.04792	-0.0125	-0.0127	-0.0125
35	2045	710	-130	SLU 23	0.28341	0	-0.11409	0	0.0602	0
35	2045	710	-130	SLU 24	0.1546	0.04713	-0.09277	-0.0125	0.0329	-0.0125
35	2045	710	-130	SLU 25	0.19449	0	-0.0937	0	0.0413	0
35	2045	710	-130	SLU 26	0.06566	0.04715	-0.07237	-0.0125	0.014	-0.0125
35	2045	710	-130	SLU 27	0.11704	0	-0.10691	0	0.0249	0
35	2045	710	-130	SLU 28	-0.09761	0.07859	-0.07136	-0.0209	-0.0207	-0.0209
35	2045	710	-130	SLU 29	-0.18659	0.07862	-0.05097	-0.0209	-0.0397	-0.0209
35	2045	710	-130	SLU 30	-0.03127	0	-0.07291	0	-0.0066	0
35	2045	710	-130	SLU 31	-0.16003	0.04718	-0.05158	-0.0125	-0.034	-0.0125
35	2045	710	-130	SLU 32	-0.03159	0.07858	-0.08222	-0.0209	-0.0067	-0.0209
35	2045	710	-130	SLU 33	-0.12054	0.07861	-0.06182	-0.0209	-0.0256	-0.0209
35	2045	710	-130	SLU 34	0.03478	0	-0.08376	0	0.0074	0
35	2045	710	-130	SLU 35	-0.094	0.04718	-0.06244	-0.0125	-0.02	-0.0125
35	2045	710	-130	SLU 36	0.24909	0	-0.12861	0	0.0529	0
35	2045	710	-130	SLU 37	0.1203	0.04713	-0.10728	-0.0125	0.0256	-0.0125
35	2045	710	-130	SLU 38	0.16017	0	-0.10821	0	0.034	0
35	2045	710	-130	SLU 39	0.03137	0.04716	-0.08689	-0.0125	0.0067	-0.0125
35	2045	710	-130	SLU 40	0.17837	0	-0.11706	0	0.0379	0
35	2045	710	-130	SLU 41	-0.0363	0.07858	-0.08152	-0.0209	-0.0077	-0.0209
35	2045	710	-130	SLU 42	-0.12525	0.07861	-0.06112	-0.0209	-0.0266	-0.0209
35	2045	710	-130	SLU 43	0.03007	0	-0.08306	0	0.0064	0
35	2045	710	-130	SLU 44	-0.0987	0.04718	-0.06174	-0.0125	-0.021	-0.0125
35	2045	710	-130	SLU 45	0.02973	0.07857	-0.09237	-0.0208	0.0063	-0.0209
35	2045	710	-130	SLU 46	-0.05921	0.07861	-0.07197	-0.0209	-0.0126	-0.0209
35	2045	710	-130	SLU 47	0.09612	0	-0.09391	0	0.0204	0
35	2045	710	-130	SLU 48	-0.03267	0.04718	-0.07259	-0.0125	-0.0069	-0.0125
35	2045	710	-130	SLU 49	0.31042	0	-0.13876	0	0.066	0
35	2045	710	-130	SLU 50	0.18162	0.04713	-0.11744	-0.0125	0.0386	-0.0125
35	2045	710	-130	SLU 51	0.22145	0	-0.11837	0	0.0471	0
35	2045	710	-130	SLU 52	0.09268	0.04715	-0.09704	-0.0125	0.0197	-0.0125
35	2045	710	-130	SLE RA 1	0.13092	0	-0.089	0	0.0278	0
35	2045	710	-130	SLE RA 2	-0.01219	0.05239	-0.06531	-0.0139	-0.0026	-0.0139
35	2045	710	-130	SLE RA 3	-0.07149	0.05241	-0.05171	-0.0139	-0.0152	-0.0139
35	2045	710	-130	SLE RA 4	0.03206	0	-0.06634	0	0.0068	0
35	2045	710	-130	SLE RA 5	-0.05379	0.03145	-0.05212	-0.0083	-0.0114	-0.0084
35	2045	710	-130	SLE RA 6	0.03182	0.05238	-0.07254	-0.0139	0.0068	-0.0139
35	2045	710	-130	SLE RA 7	-0.02747	0.0524	-0.05895	-0.0139	-0.0058	-0.0139
35	2045	710	-130	SLE RA 8	0.07609	0	-0.07357	0	0.0162	0
35	2045	710	-130	SLE RA 9	-0.00977	0.03145	-0.05936	-0.0083	-0.0021	-0.0084
35	2045	710	-130	SLE RA 10	0.21895	0	-0.10347	0	0.0465	0
35	2045	710	-130	SLE RA 11	0.13308	0.03142	-0.08926	-0.0083	0.0283	-0.0084
35	2045	710	-130	SLE RA 12	0.15964	0	-0.08987	0	0.0339	0
35	2045	710	-130	SLE RA 13	0.07379	0.03143	-0.07566	-0.0083	0.0157	-0.0084
35	2045	710	-130	SLE FR 1	0.13092	0	-0.089	0	0.0278	0
35	2045	710	-130	SLE FR 2	0.10229	0.01047	-0.08427	-0.0028	0.0217	-0.0028
35	2045	710	-130	SLE FR 3	0.11115	0	-0.08447	0	0.0236	0
35	2045	710	-130	SLE FR 4	0.14852	0	-0.0919	0	0.0316	0
35	2045	710	-130	SLE QP 1	0.13092	0	-0.089	0	0.0278	0
35	2045	710	-130	SLD 1	0.01742	-0.05185	-0.08629	0.0138	0.0037	0.0197
35	2045	710	-130	SLD 2	0.01742	-0.05185	-0.08629	0.0138	0.0037	0.0197
35	2045	710	-130	SLD 3	0.01742	0.05185	-0.08629	-0.0138	0.0037	-0.0197
35	2045	710	-130	SLD 4	0.01742	0.05185	-0.08629	-0.0138	0.0037	-0.0197
35	2045	710	-130	SLD 5	0.0969	-0.17286	-0.08819	0.0459	0.0206	0.0656
35	2045	710	-130	SLD 6	0.0969	-0.17286	-0.08819	0.0459	0.0206	0.0656
35	2045	710	-130	SLD 7	0.0969	0.17286	-0.08819	-0.0459	0.0206	-0.0656
35	2045	710	-130	SLD 8	0.0969	0.17286	-0.08819	-0.0459	0.0206	-0.0656
35	2045	710	-130	SLD 9	0.16501	-0.17286	-0.08982	0.0459	0.0351	0.0656
35	2045	710	-130	SLD 10	0.16501	-0.17286	-0.08982	0.0459	0.0351	0.0656
35	2045	710	-130	SLD 11	0.16501	0.17286	-0.08982	-0.0459	0.0351	-0.0656
35	2045	710	-130	SLD 12	0.16501	0.17286	-0.08982	-0.0459	0.0351	-0.0656
35	2045	710	-130	SLD 13	0.24446	-0.05186	-0.09172	0.0138	0.0519	0.0197
35	2045	710	-130	SLD 14	0.24446	-0.05186	-0.09172	0.0138	0.0519	0.0197
35	2045	710	-130	SLD 15	0.24446	0.05186	-0.09172	-0.0138	0.0519	-0.0197
35	2045	710	-130	SLD 16	0.24446	0.05186	-0.09172	-0.0138	0.0519	-0.0197
35	2045	710	-130	SLV 1	-0.16066	-0.1332	-0.08203	0.0354	-0.0341	0.0505
35	2045	710	-130	SLV 2	-0.16066	-0.1332	-0.08203	0.0354	-0.0341	0.0505
35	2045	710	-130	SLV 3	-0.16066	0.1332	-0.08203	-0.0354	-0.0341	-0.0505
35	2045	710	-130	SLV 4	-0.16066	0.1332	-0.08203	-0.0354	-0.0341	-0.0505
35	2045	710	-130	SLV 5	0.04348	-0.44407	-0.08691	0.1179	0.0092	0.1685
35	2045	710	-130	SLV 6	0.04348	-0.44407	-0.08691	0.1179	0.0092	0.1685
35	2045	710	-130	SLV 7	0.04348	0.44407	-0.08691	-0.1179	0.0092	-0.1685
35	2045	710	-130	SLV 8	0.04348	0.44407	-0.08691	-0.1179	0.0092	-0.1685
35	2045	710	-130	SLV 9	0.21845	-0.44408	-0.0911	0.1179	0.0464	0.1685
35	2045	710	-130	SLV 10	0.21845	-0.44408	-0.0911	0.1179	0.0464	0.1685
35	2045	710	-130	SLV 11	0.21845	0.44408	-0.0911	-0.1179	0.0464	-0.1685
35	2045	710	-130	SLV 12	0.21845	0.44408	-0.0911	-0.1179	0.0464	-0.1685
35	2045	710	-130	SLV 13	0.42256	-0.13323	-0.09599	0.0354	0.0898	0.0506
35	2045	710	-130	SLV 14	0.42256	-0.13323	-0.09599	0.0354	0.0898	0.0506
35	2045	710	-130	SLV 15	0.42256	0.13323	-0.09599	-0.0354	0.0898	-0.0506
35	2045	710	-130	SLV 16	0.42256	0.13323	-0.09599	-0.0354	0.0898	-0.0506
35	2045	710	-130	SLV FO 1	-0.16066	-0.1332	-0.08203	0.0354	-0.0341	0.0505
35	2045	710	-130	SLV FO 2	-0.16066	-0.1332	-0.08203	0.0354	-0.0341	0.0505
35	2045	710	-130	SLV FO 3	-0.16066	0.1332	-0.08203	-0.0354	-0.0341	-0.0505
35	2045	710	-130	SLV FO 4	-0.16066	0.1332	-0.08203	-0.0354	-0.0341	-0.0505
35	2045	710	-130	SLV FO 5	0.04348	-0.44407	-0.08691	0.1179	0.0092	0.1685
35	2045	710	-130	SLV FO 6	0.04348	-0.44407	-0.08691	0.1179	0.0092	0.1685
35	2045	710	-130	SLV FO 7	0.04348	0.44407	-0.08691	-0.1179	0.0092	-0.1685
35	2045	710	-130	SLV FO 8	0.04348	0.44407	-0.08691	-0.1179	0.0092	-0.1685
35	2045	710	-130	SLV FO 9	0.21845	-0.44408	-0.0911	0.1179	0.0464	0.1685
35	2045	710	-130	SLV FO 10	0.21845	-0.44408	-0.0911	0.1179	0.0464	0.1685
35	2045	710	-130	SLV FO 11	0.21845	0.44408	-0.0911	-0.1179	0.0464	-0.1685
35	2045	710	-130	SLV FO 12	0.21845	0.44408	-0.0911	-0.1179	0.0464	-0.1685
35	2045	710	-130	SLV FO 13	0.42256	-0.13323	-0.09599	0.0354	0.0898	0.0506
35	2045	710	-130	SLV FO 14	0.42256	-0.13323	-0.09599	0.0354	0.0898	0.0506
35	2045	710	-130	SLV FO 15	0.42256	0.13323	-0.09599	-0.0354	0.0898	-0.0506
35	2045	710	-130	SLV FO 16	0.42256	0.13323	-0.09599	-0.0354	0.0898	-0.0506
36	575	1210	-130	SLU 1	-0.07507	0	-0.08336	0	-0.016	0
36	575	1210	-130	SLU 2	0.03238	0.06204	-0.06111	-0.0168	0.0069	-0.0348
36	575	1210	-130	SLU 3	0.12762	0.06202	-0.0472	-0.0168	0.0271	-0.0348

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
36	575	1210	-130	SLU 4	0.08363	-0.00001	-0.06019	0	0.0178	0
36	575	1210	-130	SLU 5	0.14811	0.0372	-0.04684	-0.0101	0.0315	-0.0209
36	575	1210	-130	SLU 6	0.00101	0.06205	-0.06783	-0.0168	0.0002	-0.0348
36	575	1210	-130	SLU 7	0.09624	0.06202	-0.05393	-0.0168	0.0205	-0.0348
36	575	1210	-130	SLU 8	0.05226	-0.00001	-0.06692	0	0.0111	0
36	575	1210	-130	SLU 9	0.11673	0.03721	-0.05356	-0.0101	0.0248	-0.0209
36	575	1210	-130	SLU 10	-0.13781	0	-0.09681	0	-0.0293	0
36	575	1210	-130	SLU 11	-0.07335	0.03724	-0.08345	-0.0101	-0.0156	-0.0209
36	575	1210	-130	SLU 12	-0.0426	0	-0.08291	0	-0.0091	0
36	575	1210	-130	SLU 13	0.02188	0.03721	-0.06955	-0.0101	0.0046	-0.0209
36	575	1210	-130	SLU 14	-0.10417	0	-0.08973	0	-0.0221	0
36	575	1210	-130	SLU 15	0.00329	0.06205	-0.06748	-0.0168	0.0007	-0.0348
36	575	1210	-130	SLU 16	0.09852	0.06202	-0.05357	-0.0168	0.0209	-0.0348
36	575	1210	-130	SLU 17	0.05454	-0.00001	-0.06656	0	0.0116	0
36	575	1210	-130	SLU 18	0.11901	0.03721	-0.05321	-0.0101	0.0253	-0.0209
36	575	1210	-130	SLU 19	-0.02809	0.06205	-0.0742	-0.0168	-0.006	-0.0348
36	575	1210	-130	SLU 20	0.06714	0.06202	-0.0603	-0.0168	0.0143	-0.0348
36	575	1210	-130	SLU 21	0.02316	-0.00001	-0.07329	0	0.0049	0
36	575	1210	-130	SLU 22	0.08765	0.03721	-0.05993	-0.0101	0.0186	-0.0209
36	575	1210	-130	SLU 23	-0.1669	0	-0.10318	0	-0.0355	0
36	575	1210	-130	SLU 24	-0.10244	0.03724	-0.08982	-0.0101	-0.0218	-0.0209
36	575	1210	-130	SLU 25	-0.0717	0	-0.08928	0	-0.0152	0
36	575	1210	-130	SLU 26	-0.00722	0.03723	-0.07592	-0.0101	-0.0015	-0.0209
36	575	1210	-130	SLU 27	-0.0976	0	-0.10837	0	-0.0207	0
36	575	1210	-130	SLU 28	0.00986	0.06204	-0.08612	-0.0168	0.0021	-0.0348
36	575	1210	-130	SLU 29	0.10509	0.06202	-0.07221	-0.0168	0.0223	-0.0348
36	575	1210	-130	SLU 30	0.06111	-0.00001	-0.0852	0	0.013	0
36	575	1210	-130	SLU 31	0.12558	0.0372	-0.07185	-0.0101	0.0267	-0.0209
36	575	1210	-130	SLU 32	-0.02152	0.06205	-0.09284	-0.0168	-0.0046	-0.0348
36	575	1210	-130	SLU 33	0.07371	0.06202	-0.07893	-0.0168	0.0157	-0.0348
36	575	1210	-130	SLU 34	0.02973	-0.00001	-0.09192	0	0.0063	0
36	575	1210	-130	SLU 35	0.09421	0.03721	-0.07857	-0.0101	0.02	-0.0209
36	575	1210	-130	SLU 36	-0.16033	0	-0.12182	0	-0.0341	0
36	575	1210	-130	SLU 37	-0.09587	0.03724	-0.10846	-0.0101	-0.0204	-0.0209
36	575	1210	-130	SLU 38	-0.06513	0	-0.10791	0	-0.0138	0
36	575	1210	-130	SLU 39	-0.00065	0.03722	-0.09456	-0.0101	-0.0001	-0.0209
36	575	1210	-130	SLU 40	-0.12669	0	-0.11474	0	-0.0269	0
36	575	1210	-130	SLU 41	-0.01924	0.06205	-0.09249	-0.0168	-0.0041	-0.0348
36	575	1210	-130	SLU 42	0.07599	0.06202	-0.07858	-0.0168	0.0161	-0.0348
36	575	1210	-130	SLU 43	0.03201	-0.00001	-0.09157	0	0.0068	0
36	575	1210	-130	SLU 44	0.09649	0.03721	-0.07822	-0.0101	0.0205	-0.0209
36	575	1210	-130	SLU 45	-0.05061	0.06206	-0.09921	-0.0168	-0.0108	-0.0348
36	575	1210	-130	SLU 46	0.04462	0.06203	-0.08531	-0.0168	0.0095	-0.0348
36	575	1210	-130	SLU 47	0.00064	-0.00001	-0.09829	0	0.0001	0
36	575	1210	-130	SLU 48	0.06512	0.03721	-0.08494	-0.0101	0.0138	-0.0209
36	575	1210	-130	SLU 49	-0.18942	0	-0.12819	0	-0.0403	0
36	575	1210	-130	SLU 50	-0.12496	0.03724	-0.11483	-0.0101	-0.0266	-0.0209
36	575	1210	-130	SLU 51	-0.09421	0	-0.11428	0	-0.02	0
36	575	1210	-130	SLU 52	-0.02974	0.03723	-0.10093	-0.0101	-0.0063	-0.0209
36	575	1210	-130	SLE RA 1	-0.09447	0	-0.08761	0	-0.0201	0
36	575	1210	-130	SLE RA 2	-0.02284	0.04137	-0.07277	-0.0112	-0.0049	-0.0232
36	575	1210	-130	SLE RA 3	0.04065	0.04135	-0.0635	-0.0112	0.0086	-0.0232
36	575	1210	-130	SLE RA 4	0.01133	0	-0.07216	0	0.0024	0
36	575	1210	-130	SLE RA 5	0.05431	0.0248	-0.06326	-0.0067	0.0115	-0.0139
36	575	1210	-130	SLE RA 6	-0.04375	0.04138	-0.07725	-0.0112	-0.0093	-0.0232
36	575	1210	-130	SLE RA 7	0.01973	0.04135	-0.06799	-0.0112	0.0042	-0.0232
36	575	1210	-130	SLE RA 8	-0.00959	0	-0.07665	0	-0.002	0
36	575	1210	-130	SLE RA 9	0.0334	0.0248	-0.06774	-0.0067	0.0071	-0.0139
36	575	1210	-130	SLE RA 10	-0.13629	0	-0.09657	0	-0.029	0
36	575	1210	-130	SLE RA 11	-0.09332	0.02483	-0.08767	-0.0067	-0.0198	-0.0139
36	575	1210	-130	SLE RA 12	-0.07282	0	-0.0873	0	-0.0155	0
36	575	1210	-130	SLE RA 13	-0.02984	0.02482	-0.0784	-0.0067	-0.0063	-0.0139
36	575	1210	-130	SLE FR 1	-0.09447	0	-0.08761	0	-0.0201	0
36	575	1210	-130	SLE FR 2	-0.08014	0.00828	-0.08464	-0.0022	-0.017	-0.0046
36	575	1210	-130	SLE FR 3	-0.07331	0	-0.08452	0	-0.0156	0
36	575	1210	-130	SLE FR 4	-0.10283	0	-0.0894	0	-0.0219	0
36	575	1210	-130	SLE QP 1	-0.09447	0	-0.08761	0	-0.0201	0
36	575	1210	-130	SLD 1	-0.16841	-0.05213	-0.09035	0.0141	-0.0358	0.0343
36	575	1210	-130	SLD 2	-0.16841	-0.05213	-0.09035	0.0141	-0.0358	0.0343
36	575	1210	-130	SLD 3	-0.14873	0.05212	-0.08998	-0.0141	-0.0316	-0.0344
36	575	1210	-130	SLD 4	-0.14873	0.05212	-0.08998	-0.0141	-0.0316	-0.0344
36	575	1210	-130	SLD 5	-0.14651	-0.17379	-0.08901	0.0471	-0.0311	0.1145
36	575	1210	-130	SLD 6	-0.14651	-0.17379	-0.08901	0.0471	-0.0311	0.1145
36	575	1210	-130	SLD 7	-0.08091	0.17374	-0.08775	-0.0471	-0.0172	-0.1146
36	575	1210	-130	SLD 8	-0.08091	0.17374	-0.08775	-0.0471	-0.0172	-0.1146
36	575	1210	-130	SLD 9	-0.10805	-0.17379	-0.08748	0.0471	-0.023	0.1145
36	575	1210	-130	SLD 10	-0.10805	-0.17379	-0.08748	0.0471	-0.023	0.1145
36	575	1210	-130	SLD 11	-0.04245	0.17374	-0.08621	-0.0471	-0.009	-0.1146
36	575	1210	-130	SLD 12	-0.04245	0.17374	-0.08621	-0.0471	-0.009	-0.1146
36	575	1210	-130	SLD 13	-0.04022	-0.05215	-0.08525	0.0141	-0.0085	0.0344
36	575	1210	-130	SLD 14	-0.04022	-0.05215	-0.08525	0.0141	-0.0085	0.0344
36	575	1210	-130	SLD 15	-0.02055	0.05213	-0.08487	-0.0141	-0.0044	-0.0344
36	575	1210	-130	SLD 16	-0.02055	0.05213	-0.08487	-0.0141	-0.0044	-0.0344
36	575	1210	-130	SLV 1	-0.28441	-0.13393	-0.09466	0.0363	-0.0604	0.0882
36	575	1210	-130	SLV 2	-0.28441	-0.13393	-0.09466	0.0363	-0.0604	0.0882
36	575	1210	-130	SLV 3	-0.23385	0.1339	-0.09368	-0.0363	-0.0497	-0.0884
36	575	1210	-130	SLV 4	-0.23385	0.1339	-0.09368	-0.0363	-0.0497	-0.0884
36	575	1210	-130	SLV 5	-0.22814	-0.44642	-0.0912	0.1211	-0.0485	0.2942
36	575	1210	-130	SLV 6	-0.22814	-0.44642	-0.0912	0.1211	-0.0485	0.2942
36	575	1210	-130	SLV 7	-0.05961	0.4463	-0.08796	-0.1211	-0.0127	-0.2945
36	575	1210	-130	SLV 8	-0.05961	0.4463	-0.08796	-0.1211	-0.0127	-0.2945
36	575	1210	-130	SLV 9	-0.12935	-0.44643	-0.08726	0.1211	-0.0275	0.2942
36	575	1210	-130	SLV 10	-0.12935	-0.44643	-0.08726	0.1211	-0.0275	0.2942
36	575	1210	-130	SLV 11	0.03918	0.44631	-0.08402	-0.1211	0.0083	-0.2945
36	575	1210	-130	SLV 12	0.03918	0.44631	-0.08402	-0.1211	0.0083	-0.2945
36	575	1210	-130	SLV 13	0.0449	-0.13394	-0.08154	0.0363	0.0095	0.0883
36	575	1210	-130	SLV 14	0.0449	-0.13394	-0.08154	0.0363	0.0095	0.0883
36	575	1210	-130	SLV 15	0.09545	0.1339	-0.08056	-0.0363	0.0203	-0.0883
36	575	1210	-130	SLV 16	0.09545	0.1339	-0.08056	-0.0363	0.0203	-0.0883
36	575	1210	-130	SLV FO 1	-0.28441	-0.13393	-0.09466	0.0363	-0.0604	0.0882

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
36	575	1210	-130	SLV FO 2	-0.28441	-0.13393	-0.09466	0.0363	-0.0604	0.0882
36	575	1210	-130	SLV FO 3	-0.23385	0.1339	-0.09368	-0.0363	-0.0497	-0.0884
36	575	1210	-130	SLV FO 4	-0.23385	0.1339	-0.09368	-0.0363	-0.0497	-0.0884
36	575	1210	-130	SLV FO 5	-0.22814	-0.44642	-0.0912	0.1211	-0.0485	0.2942
36	575	1210	-130	SLV FO 6	-0.22814	-0.44642	-0.0912	0.1211	-0.0485	0.2942
36	575	1210	-130	SLV FO 7	-0.05961	0.4463	-0.08796	-0.1211	-0.0127	-0.2945
36	575	1210	-130	SLV FO 8	-0.05961	0.4463	-0.08796	-0.1211	-0.0127	-0.2945
36	575	1210	-130	SLV FO 9	-0.12935	-0.44643	-0.08726	0.1211	-0.0275	0.2942
36	575	1210	-130	SLV FO 10	-0.12935	-0.44643	-0.08726	0.1211	-0.0275	0.2942
36	575	1210	-130	SLV FO 11	0.03918	0.44631	-0.08402	-0.1211	0.0083	-0.2945
36	575	1210	-130	SLV FO 12	0.03918	0.44631	-0.08402	-0.1211	0.0083	-0.2945
36	575	1210	-130	SLV FO 13	0.0449	-0.13394	-0.08154	0.0363	0.0095	0.0883
36	575	1210	-130	SLV FO 14	0.0449	-0.13394	-0.08154	0.0363	0.0095	0.0883
36	575	1210	-130	SLV FO 15	0.09545	0.1339	-0.08056	-0.0363	0.0203	-0.0883
36	575	1210	-130	SLV FO 16	0.09545	0.1339	-0.08056	-0.0363	0.0203	-0.0883
37	2045	1210	-130	SLU 1	0.07128	0	-0.07839	0	0.0151	0
37	2045	1210	-130	SLU 2	-0.00043	0.07849	-0.06161	-0.0208	-0.0001	-0.0208
37	2045	1210	-130	SLU 3	-0.01576	0.0785	-0.0522	-0.0208	-0.0033	-0.0208
37	2045	1210	-130	SLU 4	0.04571	-0.00002	-0.0627	0	0.0097	0
37	2045	1210	-130	SLU 5	0.00269	0.0471	-0.05264	-0.0125	0.0006	-0.0125
37	2045	1210	-130	SLU 6	0.0252	0.07848	-0.06683	-0.0208	0.0054	-0.0208
37	2045	1210	-130	SLU 7	0.00987	0.0785	-0.05742	-0.0208	0.0021	-0.0208
37	2045	1210	-130	SLU 8	0.07134	-0.00002	-0.06793	0	0.0152	0
37	2045	1210	-130	SLU 9	0.02832	0.0471	-0.05786	-0.0125	0.006	-0.0125
37	2045	1210	-130	SLU 10	0.12256	-0.00001	-0.08883	0	0.026	0
37	2045	1210	-130	SLU 11	0.07952	0.04708	-0.07876	-0.0125	0.0169	-0.0125
37	2045	1210	-130	SLU 12	0.10719	0	-0.07942	0	0.0228	0
37	2045	1210	-130	SLU 13	0.06417	0.0471	-0.06935	-0.0125	0.0136	-0.0125
37	2045	1210	-130	SLU 14	0.0949	-0.00001	-0.08327	0	0.0202	0
37	2045	1210	-130	SLU 15	0.02318	0.07848	-0.06649	-0.0208	0.0049	-0.0208
37	2045	1210	-130	SLU 16	0.00785	0.0785	-0.05708	-0.0208	0.0017	-0.0208
37	2045	1210	-130	SLU 17	0.06932	-0.00002	-0.06759	0	0.0147	0
37	2045	1210	-130	SLU 18	0.02629	0.0471	-0.05752	-0.0125	0.0056	-0.0125
37	2045	1210	-130	SLU 19	0.04881	0.07848	-0.07171	-0.0208	0.0104	-0.0208
37	2045	1210	-130	SLU 20	0.03348	0.0785	-0.0623	-0.0208	0.0071	-0.0208
37	2045	1210	-130	SLU 21	0.09495	-0.00001	-0.07281	0	0.0202	0
37	2045	1210	-130	SLU 22	0.05194	0.0471	-0.06274	-0.0125	0.011	-0.0125
37	2045	1210	-130	SLU 23	0.14618	-0.00002	-0.09371	0	0.0311	0
37	2045	1210	-130	SLU 24	0.10314	0.04709	-0.08365	-0.0125	0.0219	-0.0125
37	2045	1210	-130	SLU 25	0.1308	0	-0.0843	0	0.0278	0
37	2045	1210	-130	SLU 26	0.08778	0.04709	-0.07423	-0.0125	0.0187	-0.0125
37	2045	1210	-130	SLU 27	0.09266	0	-0.10191	0	0.0197	0
37	2045	1210	-130	SLU 28	0.02095	0.07849	-0.08513	-0.0208	0.0045	-0.0208
37	2045	1210	-130	SLU 29	0.00562	0.0785	-0.07572	-0.0208	0.0012	-0.0208
37	2045	1210	-130	SLU 30	0.06709	-0.00002	-0.08622	0	0.0143	0
37	2045	1210	-130	SLU 31	0.02407	0.0471	-0.07615	-0.0125	0.0051	-0.0125
37	2045	1210	-130	SLU 32	0.04658	0.07848	-0.09035	-0.0208	0.0099	-0.0208
37	2045	1210	-130	SLU 33	0.03125	0.0785	-0.08094	-0.0208	0.0066	-0.0208
37	2045	1210	-130	SLU 34	0.09272	-0.00002	-0.09144	0	0.0197	0
37	2045	1210	-130	SLU 35	0.04969	0.0471	-0.08137	-0.0125	0.0106	-0.0125
37	2045	1210	-130	SLU 36	0.14394	-0.00001	-0.11235	0	0.0306	0
37	2045	1210	-130	SLU 37	0.1009	0.04708	-0.10228	-0.0125	0.0214	-0.0125
37	2045	1210	-130	SLU 38	0.12857	0	-0.10294	0	0.0273	0
37	2045	1210	-130	SLU 39	0.08555	0.0471	-0.09287	-0.0125	0.0182	-0.0125
37	2045	1210	-130	SLU 40	0.11628	-0.00001	-0.10679	0	0.0247	0
37	2045	1210	-130	SLU 41	0.04456	0.07848	-0.09001	-0.0208	0.0095	-0.0208
37	2045	1210	-130	SLU 42	0.02923	0.0785	-0.0806	-0.0208	0.0062	-0.0208
37	2045	1210	-130	SLU 43	0.09069	-0.00002	-0.0911	0	0.0193	0
37	2045	1210	-130	SLU 44	0.04767	0.0471	-0.08104	-0.0125	0.0101	-0.0125
37	2045	1210	-130	SLU 45	0.07019	0.07848	-0.09523	-0.0208	0.0149	-0.0208
37	2045	1210	-130	SLU 46	0.05486	0.0785	-0.08582	-0.0208	0.0117	-0.0208
37	2045	1210	-130	SLU 47	0.11632	-0.00001	-0.09632	0	0.0247	0
37	2045	1210	-130	SLU 48	0.07331	0.0471	-0.08626	-0.0125	0.0156	-0.0125
37	2045	1210	-130	SLU 49	0.16756	-0.00002	-0.11723	0	0.0356	0
37	2045	1210	-130	SLU 50	0.12451	0.04708	-0.10716	-0.0125	0.0265	-0.0125
37	2045	1210	-130	SLU 51	0.1522	0	-0.10782	0	0.0323	0
37	2045	1210	-130	SLU 52	0.10916	0.04709	-0.09775	-0.0125	0.0232	-0.0125
37	2045	1210	-130	SLE RA 1	0.08702	-0.00001	-0.08164	0	0.0185	0
37	2045	1210	-130	SLE RA 2	0.03921	0.05232	-0.07046	-0.0139	0.0083	-0.0139
37	2045	1210	-130	SLE RA 3	0.02899	0.05233	-0.06418	-0.0139	0.0062	-0.0139
37	2045	1210	-130	SLE RA 4	0.06996	-0.00001	-0.07119	0	0.0149	0
37	2045	1210	-130	SLE RA 5	0.04128	0.0314	-0.06448	-0.0083	0.0088	-0.0083
37	2045	1210	-130	SLE RA 6	0.0563	0.05232	-0.07394	-0.0139	0.012	-0.0139
37	2045	1210	-130	SLE RA 7	0.04607	0.05233	-0.06766	-0.0139	0.0098	-0.0139
37	2045	1210	-130	SLE RA 8	0.08705	-0.00001	-0.07467	0	0.0185	0
37	2045	1210	-130	SLE RA 9	0.05838	0.0314	-0.06796	-0.0083	0.0124	-0.0083
37	2045	1210	-130	SLE RA 10	0.12121	-0.00001	-0.08861	0	0.0258	0
37	2045	1210	-130	SLE RA 11	0.09251	0.03139	-0.08189	-0.0083	0.0197	-0.0083
37	2045	1210	-130	SLE RA 12	0.11097	0	-0.08233	0	0.0236	0
37	2045	1210	-130	SLE RA 13	0.08228	0.03139	-0.07562	-0.0083	0.0175	-0.0083
37	2045	1210	-130	SLE FR 1	0.08702	-0.00001	-0.08164	0	0.0185	0
37	2045	1210	-130	SLE FR 2	0.07746	0.01046	-0.07941	-0.0028	0.0165	-0.0028
37	2045	1210	-130	SLE FR 3	0.08361	0	-0.07955	0	0.0178	0
37	2045	1210	-130	SLE FR 4	0.09386	-0.00001	-0.08304	0	0.0199	0
37	2045	1210	-130	SLE QP 1	0.08702	-0.00001	-0.08164	0	0.0185	0
37	2045	1210	-130	SLD 1	-0.03596	-0.05191	-0.07855	0.0138	-0.0076	0.0197
37	2045	1210	-130	SLD 2	-0.03596	-0.05191	-0.07855	0.0138	-0.0076	0.0197
37	2045	1210	-130	SLD 3	0.001	0.05181	-0.07958	-0.0138	0.0002	-0.0197
37	2045	1210	-130	SLD 4	0.001	0.05181	-0.07958	-0.0138	0.0002	-0.0197
37	2045	1210	-130	SLD 5	-0.00596	-0.17302	-0.07915	0.0459	-0.0013	0.0658
37	2045	1210	-130	SLD 6	-0.00596	-0.17302	-0.07915	0.0459	-0.0013	0.0658
37	2045	1210	-130	SLD 7	0.11725	0.17269	-0.08259	-0.0458	0.0249	-0.0655
37	2045	1210	-130	SLD 8	0.11725	0.17269	-0.08259	-0.0458	0.0249	-0.0655
37	2045	1210	-130	SLD 9	0.05674	-0.17302	-0.0807	0.0459	0.0121	0.0658
37	2045	1210	-130	SLD 10	0.05674	-0.17302	-0.0807	0.0459	0.0121	0.0658
37	2045	1210	-130	SLD 11	0.17994	0.17269	-0.08414	-0.0458	0.0382	-0.0655
37	2045	1210	-130	SLD 12	0.17994	0.17269	-0.08414	-0.0458	0.0382	-0.0655
37	2045	1210	-130	SLD 13	0.17303	-0.0519	-0.08371	0.0138	0.0368	0.0197
37	2045	1210	-130	SLD 14	0.17303	-0.0519	-0.08371	0.0138	0.0368	0.0197
37	2045	1210	-130	SLD 15	0.20997	0.0518	-0.08474	-0.0137	0.0446	-0.0196
37	2045	1210	-130	SLD 16	0.20997	0.0518	-0.08474	-0.0137	0.0446	-0.0196
37	2045	1210	-130	SLV 1	-0.22892	-0.13335	-0.07369	0.0354	-0.0486	0.0507
37	2045	1210	-130	SLV 2	-0.22892	-0.13335	-0.07369	0.0354	-0.0486	0.0507

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
37	2045	1210	-130	SLV 3	-0.13396	0.13309	-0.07634	-0.0353	-0.0285	-0.0505
37	2045	1210	-130	SLV 4	-0.13396	0.13309	-0.07634	-0.0353	-0.0285	-0.0505
37	2045	1210	-130	SLV 5	-0.15184	-0.44448	-0.07524	0.118	-0.0323	0.169
37	2045	1210	-130	SLV 6	-0.15184	-0.44448	-0.07524	0.118	-0.0323	0.169
37	2045	1210	-130	SLV 7	0.16471	0.44363	-0.08407	-0.1177	0.035	-0.1682
37	2045	1210	-130	SLV 8	0.16471	0.44363	-0.08407	-0.1177	0.035	-0.1682
37	2045	1210	-130	SLV 9	0.00923	-0.44447	-0.07922	0.118	0.002	0.169
37	2045	1210	-130	SLV 10	0.00923	-0.44447	-0.07922	0.118	0.002	0.169
37	2045	1210	-130	SLV 11	0.32576	0.44362	-0.08805	-0.1177	0.0692	-0.1682
37	2045	1210	-130	SLV 12	0.32576	0.44362	-0.08805	-0.1177	0.0692	-0.1682
37	2045	1210	-130	SLV 13	0.30797	-0.13332	-0.08695	0.0354	0.0654	0.0507
37	2045	1210	-130	SLV 14	0.30797	-0.13332	-0.08695	0.0354	0.0654	0.0507
37	2045	1210	-130	SLV 15	0.4029	0.13307	-0.0896	-0.0353	0.0856	-0.0504
37	2045	1210	-130	SLV 16	0.4029	0.13307	-0.0896	-0.0353	0.0856	-0.0504
37	2045	1210	-130	SLV FO 1	-0.22892	-0.13335	-0.07369	0.0354	-0.0486	0.0507
37	2045	1210	-130	SLV FO 2	-0.22892	-0.13335	-0.07369	0.0354	-0.0486	0.0507
37	2045	1210	-130	SLV FO 3	-0.13396	0.13309	-0.07634	-0.0353	-0.0285	-0.0505
37	2045	1210	-130	SLV FO 4	-0.13396	0.13309	-0.07634	-0.0353	-0.0285	-0.0505
37	2045	1210	-130	SLV FO 5	-0.15184	-0.44448	-0.07524	0.118	-0.0323	0.169
37	2045	1210	-130	SLV FO 6	-0.15184	-0.44448	-0.07524	0.118	-0.0323	0.169
37	2045	1210	-130	SLV FO 7	0.16471	0.44363	-0.08407	-0.1177	0.035	-0.1682
37	2045	1210	-130	SLV FO 8	0.16471	0.44363	-0.08407	-0.1177	0.035	-0.1682
37	2045	1210	-130	SLV FO 9	0.00923	-0.44447	-0.07922	0.118	0.002	0.169
37	2045	1210	-130	SLV FO 10	0.00923	-0.44447	-0.07922	0.118	0.002	0.169
37	2045	1210	-130	SLV FO 11	0.32576	0.44362	-0.08805	-0.1177	0.0692	-0.1682
37	2045	1210	-130	SLV FO 12	0.32576	0.44362	-0.08805	-0.1177	0.0692	-0.1682
37	2045	1210	-130	SLV FO 13	0.30797	-0.13332	-0.08695	0.0354	0.0654	0.0507
37	2045	1210	-130	SLV FO 14	0.30797	-0.13332	-0.08695	0.0354	0.0654	0.0507
37	2045	1210	-130	SLV FO 15	0.4029	0.13307	-0.0896	-0.0353	0.0856	-0.0504
37	2045	1210	-130	SLV FO 16	0.4029	0.13307	-0.0896	-0.0353	0.0856	-0.0504
38	575	210	-30	SLU 1	-0.10292	0	-0.08336	0	-0.016	0
38	575	210	-30	SLU 2	0.02894	0.09181	-0.06103	-0.0169	0.0045	-0.0347
38	575	210	-30	SLU 3	0.15946	0.09179	-0.04713	-0.0169	0.0247	-0.0347
38	575	210	-30	SLU 4	0.11465	0.00001	-0.06019	0	0.0178	0
38	575	210	-30	SLU 5	0.19374	0.05507	-0.04679	-0.0101	0.03	-0.0208
38	575	210	-30	SLU 6	-0.01405	0.09182	-0.06775	-0.0169	-0.0022	-0.0347
38	575	210	-30	SLU 7	0.11645	0.09179	-0.05385	-0.0169	0.0181	-0.0347
38	575	210	-30	SLU 8	0.07164	0.00001	-0.06692	0	0.0111	0
38	575	210	-30	SLU 9	0.15074	0.05508	-0.05352	-0.0101	0.0234	-0.0208
38	575	210	-30	SLU 10	-0.18892	0	-0.09681	0	-0.0293	0
38	575	210	-30	SLU 11	-0.10979	0.05511	-0.08341	-0.0101	-0.017	-0.0208
38	575	210	-30	SLU 12	-0.0584	0	-0.08291	0	-0.0091	0
38	575	210	-30	SLU 13	0.02071	0.05507	-0.0695	-0.0101	0.0032	-0.0208
38	575	210	-30	SLU 14	-0.1428	0	-0.08973	0	-0.0221	0
38	575	210	-30	SLU 15	-0.01093	0.09182	-0.0674	-0.0169	-0.0017	-0.0347
38	575	210	-30	SLU 16	0.11958	0.09179	-0.0535	-0.0169	0.0185	-0.0347
38	575	210	-30	SLU 17	0.07476	0.00001	-0.06656	0	0.0116	0
38	575	210	-30	SLU 18	0.15386	0.05508	-0.05316	-0.0101	0.0239	-0.0208
38	575	210	-30	SLU 19	-0.05393	0.09183	-0.07412	-0.0169	-0.0084	-0.0347
38	575	210	-30	SLU 20	0.07657	0.09179	-0.06022	-0.0169	0.0119	-0.0347
38	575	210	-30	SLU 21	0.03175	0.00001	-0.07329	0	0.0049	0
38	575	210	-30	SLU 22	0.11085	0.05507	-0.05989	-0.0101	0.0172	-0.0208
38	575	210	-30	SLU 23	-0.2288	0	-0.10318	0	-0.0355	0
38	575	210	-30	SLU 24	-0.14967	0.0551	-0.08978	-0.0101	-0.0232	-0.0208
38	575	210	-30	SLU 25	-0.09829	0	-0.08928	0	-0.0152	0
38	575	210	-30	SLU 26	-0.01916	0.05509	-0.07587	-0.0101	-0.003	-0.0208
38	575	210	-30	SLU 27	-0.1338	0	-0.10837	0	-0.0207	0
38	575	210	-30	SLU 28	-0.00194	0.09181	-0.08604	-0.0169	-0.0003	-0.0347
38	575	210	-30	SLU 29	0.12858	0.09179	-0.07214	-0.0169	0.0199	-0.0347
38	575	210	-30	SLU 30	0.08377	0.00001	-0.0852	0	0.013	0
38	575	210	-30	SLU 31	0.16286	0.05507	-0.0718	-0.0101	0.0252	-0.0208
38	575	210	-30	SLU 32	-0.04493	0.09183	-0.09276	-0.0169	-0.007	-0.0347
38	575	210	-30	SLU 33	0.08557	0.09179	-0.07886	-0.0169	0.0133	-0.0347
38	575	210	-30	SLU 34	0.04076	0.00001	-0.09192	0	0.0063	0
38	575	210	-30	SLU 35	0.11986	0.05508	-0.07852	-0.0101	0.0186	-0.0208
38	575	210	-30	SLU 36	-0.2198	0	-0.12182	0	-0.0341	0
38	575	210	-30	SLU 37	-0.14067	0.05511	-0.10841	-0.0101	-0.0218	-0.0208
38	575	210	-30	SLU 38	-0.08928	0	-0.10791	0	-0.0138	0
38	575	210	-30	SLU 39	-0.01017	0.05508	-0.09451	-0.0101	-0.0016	-0.0208
38	575	210	-30	SLU 40	-0.17368	0	-0.11474	0	-0.0269	0
38	575	210	-30	SLU 41	-0.04181	0.09183	-0.09241	-0.0169	-0.0065	-0.0347
38	575	210	-30	SLU 42	0.0887	0.09179	-0.07851	-0.0169	0.0137	-0.0347
38	575	210	-30	SLU 43	0.04388	0.00001	-0.09157	0	0.0068	0
38	575	210	-30	SLU 44	0.12298	0.05508	-0.07817	-0.0101	0.0191	-0.0208
38	575	210	-30	SLU 45	-0.0848	0.09184	-0.09913	-0.0169	-0.0131	-0.0347
38	575	210	-30	SLU 46	0.04569	0.09179	-0.08523	-0.0169	0.0071	-0.0347
38	575	210	-30	SLU 47	0.00087	0.00001	-0.09829	0	0.0001	0
38	575	210	-30	SLU 48	0.07997	0.05507	-0.08489	-0.0101	0.0124	-0.0208
38	575	210	-30	SLU 49	-0.25968	0	-0.12819	0	-0.0403	0
38	575	210	-30	SLU 50	-0.18055	0.05511	-0.11479	-0.0101	-0.028	-0.0208
38	575	210	-30	SLU 51	-0.12915	0	-0.11428	0	-0.02	0
38	575	210	-30	SLU 52	-0.05004	0.05509	-0.10088	-0.0101	-0.0078	-0.0208
38	575	210	-30	SLE RA 1	-0.12951	0	-0.08761	0	-0.0201	0
38	575	210	-30	SLE RA 2	-0.04159	0.06122	-0.07272	-0.0113	-0.0064	-0.0231
38	575	210	-30	SLE RA 3	0.04541	0.06119	-0.06345	-0.0113	0.007	-0.0231
38	575	210	-30	SLE RA 4	0.01553	0.00001	-0.07216	0	0.0024	0
38	575	210	-30	SLE RA 5	0.06826	0.03672	-0.06323	-0.0068	0.0106	-0.0139
38	575	210	-30	SLE RA 6	-0.07025	0.06123	-0.0772	-0.0113	-0.0109	-0.0232
38	575	210	-30	SLE RA 7	0.01674	0.0612	-0.06793	-0.0113	0.0026	-0.0231
38	575	210	-30	SLE RA 8	-0.01314	0.00001	-0.07665	0	-0.002	0
38	575	210	-30	SLE RA 9	0.03959	0.03671	-0.06771	-0.0068	0.0061	-0.0139
38	575	210	-30	SLE RA 10	-0.18684	0	-0.09657	0	-0.029	0
38	575	210	-30	SLE RA 11	-0.13409	0.03674	-0.08764	-0.0068	-0.0208	-0.0139
38	575	210	-30	SLE RA 12	-0.09982	0	-0.0873	0	-0.0155	0
38	575	210	-30	SLE RA 13	-0.04708	0.03673	-0.07837	-0.0068	-0.0073	-0.0139
38	575	210	-30	SLE FR 1	-0.12951	0	-0.08761	0	-0.0201	0
38	575	210	-30	SLE FR 2	-0.11192	0.01225	-0.08463	-0.0023	-0.0173	-0.0046
38	575	210	-30	SLE FR 3	-0.1005	0	-0.08452	0	-0.0156	0
38	575	210	-30	SLE FR 4	-0.14097	0	-0.0894	0	-0.0219	0
38	575	210	-30	SLE QP 1	-0.12951	0	-0.08761	0	-0.0201	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
38	575	210	-30	SLD 1	-0.20389	-0.0768	-0.08998	0.0141	-0.0316	0.0344
38	575	210	-30	SLD 2	-0.20389	-0.0768	-0.08998	0.0141	-0.0316	0.0344
38	575	210	-30	SLD 3	-0.23087	0.07682	-0.09035	-0.0141	-0.0358	-0.0343
38	575	210	-30	SLD 4	-0.23087	0.07682	-0.09035	-0.0141	-0.0358	-0.0343
38	575	210	-30	SLD 5	-0.11092	-0.256	-0.08775	0.0471	-0.0172	0.1146
38	575	210	-30	SLD 6	-0.11092	-0.256	-0.08775	0.0471	-0.0172	0.1146
38	575	210	-30	SLD 7	-0.20084	0.25608	-0.08901	-0.0471	-0.0311	-0.1145
38	575	210	-30	SLD 8	-0.20084	0.25608	-0.08901	-0.0471	-0.0311	-0.1145
38	575	210	-30	SLD 9	-0.0582	-0.256	-0.08621	0.0471	-0.009	0.1146
38	575	210	-30	SLD 10	-0.0582	-0.256	-0.08621	0.0471	-0.009	0.1146
38	575	210	-30	SLD 11	-0.14812	0.25608	-0.08748	-0.0471	-0.023	-0.1145
38	575	210	-30	SLD 12	-0.14812	0.25608	-0.08748	-0.0471	-0.023	-0.1145
38	575	210	-30	SLD 13	-0.02817	-0.07681	-0.08487	0.0141	-0.0044	0.0344
38	575	210	-30	SLD 14	-0.02817	-0.07681	-0.08487	0.0141	-0.0044	0.0344
38	575	210	-30	SLD 15	-0.05513	0.07684	-0.08525	-0.0141	-0.0085	-0.0344
38	575	210	-30	SLD 16	-0.05513	0.07684	-0.08525	-0.0141	-0.0085	-0.0344
38	575	210	-30	SLV 1	-0.32059	-0.19729	-0.09368	0.0363	-0.0497	0.0884
38	575	210	-30	SLV 2	-0.32059	-0.19729	-0.09368	0.0363	-0.0497	0.0884
38	575	210	-30	SLV 3	-0.38989	0.19734	-0.09466	-0.0363	-0.0604	-0.0882
38	575	210	-30	SLV 4	-0.38989	0.19734	-0.09466	-0.0363	-0.0604	-0.0882
38	575	210	-30	SLV 5	-0.08172	-0.65761	-0.08796	0.1211	-0.0127	0.2945
38	575	210	-30	SLV 6	-0.08172	-0.65761	-0.08796	0.1211	-0.0127	0.2945
38	575	210	-30	SLV 7	-0.31276	0.65781	-0.0912	-0.1211	-0.0485	-0.2942
38	575	210	-30	SLV 8	-0.31276	0.65781	-0.0912	-0.1211	-0.0485	-0.2942
38	575	210	-30	SLV 9	0.05371	-0.65762	-0.08402	0.1211	0.0083	0.2945
38	575	210	-30	SLV 10	0.05371	-0.65762	-0.08402	0.1211	0.0083	0.2945
38	575	210	-30	SLV 11	-0.17733	0.65782	-0.08726	-0.1211	-0.0275	-0.2942
38	575	210	-30	SLV 12	-0.17733	0.65782	-0.08726	-0.1211	-0.0275	-0.2942
38	575	210	-30	SLV 13	0.13085	-0.1973	-0.08056	0.0363	0.0203	0.0883
38	575	210	-30	SLV 14	0.13085	-0.1973	-0.08056	0.0363	0.0203	0.0883
38	575	210	-30	SLV 15	0.06156	0.19737	-0.08154	-0.0363	0.0095	-0.0883
38	575	210	-30	SLV 16	0.06156	0.19737	-0.08154	-0.0363	0.0095	-0.0883
38	575	210	-30	SLV FO 1	-0.32059	-0.19729	-0.09368	0.0363	-0.0497	0.0884
38	575	210	-30	SLV FO 2	-0.32059	-0.19729	-0.09368	0.0363	-0.0497	0.0884
38	575	210	-30	SLV FO 3	-0.38989	0.19734	-0.09466	-0.0363	-0.0604	-0.0882
38	575	210	-30	SLV FO 4	-0.38989	0.19734	-0.09466	-0.0363	-0.0604	-0.0882
38	575	210	-30	SLV FO 5	-0.08172	-0.65761	-0.08796	0.1211	-0.0127	0.2945
38	575	210	-30	SLV FO 6	-0.08172	-0.65761	-0.08796	0.1211	-0.0127	0.2945
38	575	210	-30	SLV FO 7	-0.31276	0.65781	-0.0912	-0.1211	-0.0485	-0.2942
38	575	210	-30	SLV FO 8	-0.31276	0.65781	-0.0912	-0.1211	-0.0485	-0.2942
38	575	210	-30	SLV FO 9	0.05371	-0.65762	-0.08402	0.1211	0.0083	0.2945
38	575	210	-30	SLV FO 10	0.05371	-0.65762	-0.08402	0.1211	0.0083	0.2945
38	575	210	-30	SLV FO 11	-0.17733	0.65782	-0.08726	-0.1211	-0.0275	-0.2942
38	575	210	-30	SLV FO 12	-0.17733	0.65782	-0.08726	-0.1211	-0.0275	-0.2942
38	575	210	-30	SLV FO 13	0.13085	-0.1973	-0.08056	0.0363	0.0203	0.0883
38	575	210	-30	SLV FO 14	0.13085	-0.1973	-0.08056	0.0363	0.0203	0.0883
38	575	210	-30	SLV FO 15	0.06156	0.19737	-0.08154	-0.0363	0.0095	-0.0883
38	575	210	-30	SLV FO 16	0.06156	0.19737	-0.08154	-0.0363	0.0095	-0.0883
39	2045	210	-30	SLU 1	0.09772	0	-0.07839	0	0.0151	0
39	2045	210	-30	SLU 2	-0.03059	0.16726	-0.061	-0.0289	-0.0047	-0.0357
39	2045	210	-30	SLU 3	-0.05167	0.16727	-0.05158	-0.029	-0.008	-0.0357
39	2045	210	-30	SLU 4	0.06266	0.00003	-0.0627	0	0.0097	0
39	2045	210	-30	SLU 5	-0.01438	0.10036	-0.05227	-0.0174	-0.0022	-0.0214
39	2045	210	-30	SLU 6	0.00458	0.16725	-0.06622	-0.0289	0.0007	-0.0357
39	2045	210	-30	SLU 7	-0.01653	0.16727	-0.05681	-0.029	-0.0026	-0.0357
39	2045	210	-30	SLU 8	0.0978	0.00002	-0.06793	0	0.0152	0
39	2045	210	-30	SLU 9	0.02077	0.10035	-0.05749	-0.0174	0.0032	-0.0214
39	2045	210	-30	SLU 10	0.16801	0.00002	-0.08883	0	0.026	0
39	2045	210	-30	SLU 11	0.09106	0.10034	-0.0784	-0.0174	0.0141	-0.0214
39	2045	210	-30	SLU 12	0.14694	0	-0.07942	0	0.0228	0
39	2045	210	-30	SLU 13	0.06995	0.10036	-0.06898	-0.0174	0.0108	-0.0214
39	2045	210	-30	SLU 14	0.13009	0.00001	-0.08327	0	0.0202	0
39	2045	210	-30	SLU 15	0.00181	0.16725	-0.06588	-0.0289	0.0003	-0.0357
39	2045	210	-30	SLU 16	-0.0193	0.16727	-0.05647	-0.029	-0.003	-0.0357
39	2045	210	-30	SLU 17	0.09502	0.00002	-0.06759	0	0.0147	0
39	2045	210	-30	SLU 18	0.018	0.10035	-0.05715	-0.0174	0.0028	-0.0214
39	2045	210	-30	SLU 19	0.03695	0.16725	-0.0711	-0.0289	0.0057	-0.0357
39	2045	210	-30	SLU 20	0.01584	0.16727	-0.06169	-0.029	0.0025	-0.0357
39	2045	210	-30	SLU 21	0.13016	0.00002	-0.07281	0	0.0202	0
39	2045	210	-30	SLU 22	0.05314	0.10036	-0.06237	-0.0174	0.0082	-0.0214
39	2045	210	-30	SLU 23	0.20039	0.00002	-0.09371	0	0.0311	0
39	2045	210	-30	SLU 24	0.12344	0.10034	-0.08328	-0.0174	0.0191	-0.0214
39	2045	210	-30	SLU 25	0.17931	0	-0.0843	0	0.0278	0
39	2045	210	-30	SLU 26	0.10235	0.10035	-0.07387	-0.0174	0.0159	-0.0214
39	2045	210	-30	SLU 27	0.12703	0.00001	-0.10191	0	0.0197	0
39	2045	210	-30	SLU 28	-0.00128	0.16726	-0.08451	-0.0289	-0.0002	-0.0357
39	2045	210	-30	SLU 29	-0.02236	0.16727	-0.0751	-0.029	-0.0035	-0.0357
39	2045	210	-30	SLU 30	0.09197	0.00003	-0.08622	0	0.0143	0
39	2045	210	-30	SLU 31	0.01493	0.10036	-0.07578	-0.0174	0.0023	-0.0214
39	2045	210	-30	SLU 32	0.03389	0.16725	-0.08974	-0.0289	0.0053	-0.0357
39	2045	210	-30	SLU 33	0.01278	0.16727	-0.08032	-0.029	0.002	-0.0357
39	2045	210	-30	SLU 34	0.1271	0.00002	-0.09144	0	0.0197	0
39	2045	210	-30	SLU 35	0.05008	0.10035	-0.08101	-0.0174	0.0078	-0.0214
39	2045	210	-30	SLU 36	0.19733	0.00002	-0.11235	0	0.0306	0
39	2045	210	-30	SLU 37	0.12038	0.10034	-0.10191	-0.0174	0.0187	-0.0214
39	2045	210	-30	SLU 38	0.17625	0	-0.10294	0	0.0273	0
39	2045	210	-30	SLU 39	0.09926	0.10036	-0.0925	-0.0174	0.0154	-0.0214
39	2045	210	-30	SLU 40	0.15941	0.00001	-0.10679	0	0.0247	0
39	2045	210	-30	SLU 41	0.03112	0.16725	-0.0894	-0.0289	0.0048	-0.0357
39	2045	210	-30	SLU 42	0.01001	0.16727	-0.07998	-0.029	0.0016	-0.0357
39	2045	210	-30	SLU 43	0.12433	0.00002	-0.0911	0	0.0193	0
39	2045	210	-30	SLU 44	0.04731	0.10035	-0.08067	-0.0174	0.0073	-0.0214
39	2045	210	-30	SLU 45	0.06628	0.16724	-0.09462	-0.0289	0.0103	-0.0357
39	2045	210	-30	SLU 46	0.04516	0.16727	-0.0852	-0.029	0.007	-0.0357
39	2045	210	-30	SLU 47	0.15947	0.00002	-0.09632	0	0.0247	0
39	2045	210	-30	SLU 48	0.08245	0.10036	-0.08589	-0.0174	0.0128	-0.0214
39	2045	210	-30	SLU 49	0.22971	0.00003	-0.11723	0	0.0356	0
39	2045	210	-30	SLU 50	0.15275	0.10034	-0.1068	-0.0174	0.0237	-0.0214
39	2045	210	-30	SLU 51	0.20866	0	-0.10782	0	0.0323	0
39	2045	210	-30	SLU 52	0.13166	0.10035	-0.09738	-0.0174	0.0204	-0.0214
39	2045	210	-30	SLE RA 1	0.1193	0.00001	-0.08164	0	0.0185	0
39	2045	210	-30	SLE RA 2	0.03378	0.1115	-0.07005	-0.0193	0.0052	-0.0238
39	2045	210	-30	SLE RA 3	0.0197	0.11151	-0.06377	-0.0193	0.0031	-0.0238

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
39	2045	210	-30	SLE RA 4	0.09591	0.00001	-0.07119	0	0.0149	0
39	2045	210	-30	SLE RA 5	0.04457	0.0669	-0.06423	-0.0116	0.0069	-0.0143
39	2045	210	-30	SLE RA 6	0.05723	0.11149	-0.07353	-0.0193	0.0089	-0.0238
39	2045	210	-30	SLE RA 7	0.04314	0.11151	-0.06726	-0.0193	0.0067	-0.0238
39	2045	210	-30	SLE RA 8	0.11934	0.00001	-0.07467	0	0.0185	0
39	2045	210	-30	SLE RA 9	0.06799	0.06691	-0.06771	-0.0116	0.0105	-0.0143
39	2045	210	-30	SLE RA 10	0.16617	0.00002	-0.08861	0	0.0258	0
39	2045	210	-30	SLE RA 11	0.11486	0.0669	-0.08165	-0.0116	0.0178	-0.0143
39	2045	210	-30	SLE RA 12	0.15213	0	-0.08233	0	0.0236	0
39	2045	210	-30	SLE RA 13	0.1008	0.0669	-0.07537	-0.0116	0.0156	-0.0143
39	2045	210	-30	SLE FR 1	0.1193	0.00001	-0.08164	0	0.0185	0
39	2045	210	-30	SLE FR 2	0.1022	0.0223	-0.07933	-0.0039	0.0158	-0.0048
39	2045	210	-30	SLE FR 3	0.11462	0	-0.07955	0	0.0178	0
39	2045	210	-30	SLE FR 4	0.12867	0.00001	-0.08304	0	0.0199	0
39	2045	210	-30	SLE QP 1	0.1193	0.00001	-0.08164	0	0.0185	0
39	2045	210	-30	SLD 1	0.00136	-0.07581	-0.07958	0.0138	0.0002	0.0197
39	2045	210	-30	SLD 2	0.00136	-0.07581	-0.07958	0.0138	0.0002	0.0197
39	2045	210	-30	SLD 3	-0.0493	0.07596	-0.07855	-0.0138	-0.0076	-0.0197
39	2045	210	-30	SLD 4	-0.0493	0.07596	-0.07855	-0.0138	-0.0076	-0.0197
39	2045	210	-30	SLD 5	0.16073	-0.25268	-0.08259	0.0458	0.0249	0.0655
39	2045	210	-30	SLD 6	0.16073	-0.25268	-0.08259	0.0458	0.0249	0.0655
39	2045	210	-30	SLD 7	-0.00817	0.25317	-0.07915	-0.0459	-0.0013	-0.0658
39	2045	210	-30	SLD 8	-0.00817	0.25317	-0.07915	-0.0459	-0.0013	-0.0658
39	2045	210	-30	SLD 9	0.24668	-0.25268	-0.08414	0.0458	0.0382	0.0655
39	2045	210	-30	SLD 10	0.24668	-0.25268	-0.08414	0.0458	0.0382	0.0655
39	2045	210	-30	SLD 11	0.07778	0.25317	-0.0807	-0.0459	0.0121	-0.0658
39	2045	210	-30	SLD 12	0.07778	0.25317	-0.0807	-0.0459	0.0121	-0.0658
39	2045	210	-30	SLD 13	0.28785	-0.07579	-0.08474	0.0137	0.0446	0.0196
39	2045	210	-30	SLD 14	0.28785	-0.07579	-0.08474	0.0137	0.0446	0.0196
39	2045	210	-30	SLD 15	0.23721	0.07594	-0.08371	-0.0138	0.0368	-0.0197
39	2045	210	-30	SLD 16	0.23721	0.07594	-0.08371	-0.0138	0.0368	-0.0197
39	2045	210	-30	SLV 1	-0.18365	-0.19475	-0.07634	0.0353	-0.0285	0.0505
39	2045	210	-30	SLV 2	-0.18365	-0.19475	-0.07634	0.0353	-0.0285	0.0505
39	2045	210	-30	SLV 3	-0.31383	0.19513	-0.07369	-0.0354	-0.0486	-0.0507
39	2045	210	-30	SLV 4	-0.31383	0.19513	-0.07369	-0.0354	-0.0486	-0.0507
39	2045	210	-30	SLV 5	0.22579	-0.64913	-0.08407	0.1177	0.035	0.1682
39	2045	210	-30	SLV 6	0.22579	-0.64913	-0.08407	0.1177	0.035	0.1682
39	2045	210	-30	SLV 7	-0.20816	0.65038	-0.07524	-0.118	-0.0323	-0.169
39	2045	210	-30	SLV 8	-0.20816	0.65038	-0.07524	-0.118	-0.0323	-0.169
39	2045	210	-30	SLV 9	0.44659	-0.64912	-0.08805	0.1177	0.0692	0.1682
39	2045	210	-30	SLV 10	0.44659	-0.64912	-0.08805	0.1177	0.0692	0.1682
39	2045	210	-30	SLV 11	0.01265	0.65037	-0.07922	-0.118	0.002	-0.169
39	2045	210	-30	SLV 12	0.01265	0.65037	-0.07922	-0.118	0.002	-0.169
39	2045	210	-30	SLV 13	0.55234	-0.19472	-0.0896	0.0353	0.0856	0.0504
39	2045	210	-30	SLV 14	0.55234	-0.19472	-0.0896	0.0353	0.0856	0.0504
39	2045	210	-30	SLV 15	0.4222	0.19508	-0.08695	-0.0354	0.0654	-0.0507
39	2045	210	-30	SLV 16	0.4222	0.19508	-0.08695	-0.0354	0.0654	-0.0507
39	2045	210	-30	SLV FO 1	-0.18365	-0.19475	-0.07634	0.0353	-0.0285	0.0505
39	2045	210	-30	SLV FO 2	-0.18365	-0.19475	-0.07634	0.0353	-0.0285	0.0505
39	2045	210	-30	SLV FO 3	-0.31383	0.19513	-0.07369	-0.0354	-0.0486	-0.0507
39	2045	210	-30	SLV FO 4	-0.31383	0.19513	-0.07369	-0.0354	-0.0486	-0.0507
39	2045	210	-30	SLV FO 5	0.22579	-0.64913	-0.08407	0.1177	0.035	0.1682
39	2045	210	-30	SLV FO 6	0.22579	-0.64913	-0.08407	0.1177	0.035	0.1682
39	2045	210	-30	SLV FO 7	-0.20816	0.65038	-0.07524	-0.118	-0.0323	-0.169
39	2045	210	-30	SLV FO 8	-0.20816	0.65038	-0.07524	-0.118	-0.0323	-0.169
39	2045	210	-30	SLV FO 9	0.44659	-0.64912	-0.08805	0.1177	0.0692	0.1682
39	2045	210	-30	SLV FO 10	0.44659	-0.64912	-0.08805	0.1177	0.0692	0.1682
39	2045	210	-30	SLV FO 11	0.01265	0.65037	-0.07922	-0.118	0.002	-0.169
39	2045	210	-30	SLV FO 12	0.01265	0.65037	-0.07922	-0.118	0.002	-0.169
39	2045	210	-30	SLV FO 13	0.55234	-0.19472	-0.0896	0.0353	0.0856	0.0504
39	2045	210	-30	SLV FO 14	0.55234	-0.19472	-0.0896	0.0353	0.0856	0.0504
39	2045	210	-30	SLV FO 15	0.4222	0.19508	-0.08695	-0.0354	0.0654	-0.0507
39	2045	210	-30	SLV FO 16	0.4222	0.19508	-0.08695	-0.0354	0.0654	-0.0507
40	575	710	-30	SLU 1	-0.11302	0	-0.08759	0	-0.0175	0
40	575	710	-30	SLU 2	0.1287	0.09145	-0.04431	-0.0168	0.02	-0.0348
40	575	710	-30	SLU 3	0.3267	0.09143	-0.01797	-0.0168	0.0506	-0.0348
40	575	710	-30	SLU 4	0.21697	0	-0.0437	0	0.0336	0
40	575	710	-30	SLU 5	0.36202	0.05485	-0.01773	-0.0101	0.0561	-0.0209
40	575	710	-30	SLU 6	0.05389	0.09147	-0.05736	-0.0168	0.0084	-0.0348
40	575	710	-30	SLU 7	0.25191	0.09143	-0.03103	-0.0168	0.039	-0.0348
40	575	710	-30	SLU 8	0.14217	0	-0.05676	0	0.022	0
40	575	710	-30	SLU 9	0.28722	0.05485	-0.03078	-0.0101	0.0445	-0.0209
40	575	710	-30	SLU 10	-0.26263	0	-0.1137	0	-0.0407	0
40	575	710	-30	SLU 11	-0.11761	0.05489	-0.08772	-0.0101	-0.0182	-0.0209
40	575	710	-30	SLU 12	-0.0646	0	-0.08736	0	-0.01	0
40	575	710	-30	SLU 13	0.08043	0.05486	-0.06139	-0.0101	0.0125	-0.0209
40	575	710	-30	SLU 14	-0.18208	0	-0.09996	0	-0.0282	0
40	575	710	-30	SLU 15	0.05963	0.09147	-0.05667	-0.0168	0.0092	-0.0348
40	575	710	-30	SLU 16	0.25765	0.09143	-0.03034	-0.0168	0.0399	-0.0348
40	575	710	-30	SLU 17	0.14792	0	-0.05607	0	0.0229	0
40	575	710	-30	SLU 18	0.29297	0.05485	-0.0301	-0.0101	0.0454	-0.0209
40	575	710	-30	SLU 19	-0.01516	0.09147	-0.06972	-0.0168	-0.0024	-0.0348
40	575	710	-30	SLU 20	0.18286	0.09143	-0.04339	-0.0168	0.0283	-0.0348
40	575	710	-30	SLU 21	0.07312	0	-0.06912	0	0.0113	0
40	575	710	-30	SLU 22	0.21816	0.05485	-0.04315	-0.0101	0.0338	-0.0209
40	575	710	-30	SLU 23	-0.3317	0	-0.12606	0	-0.0514	0
40	575	710	-30	SLU 24	-0.18667	0.05489	-0.10009	-0.0101	-0.0289	-0.0209
40	575	710	-30	SLU 25	-0.13366	0	-0.09973	0	-0.0207	0
40	575	710	-30	SLU 26	0.01136	0.05488	-0.07376	-0.0101	0.0018	-0.0209
40	575	710	-30	SLU 27	-0.14693	0	-0.11387	0	-0.0228	0
40	575	710	-30	SLU 28	0.0948	0.09145	-0.07058	-0.0168	0.0147	-0.0348
40	575	710	-30	SLU 29	0.2928	0.09143	-0.04425	-0.0168	0.0454	-0.0348
40	575	710	-30	SLU 30	0.18307	0	-0.06998	0	0.0284	0
40	575	710	-30	SLU 31	0.32813	0.05485	-0.04401	-0.0101	0.0509	-0.0209
40	575	710	-30	SLU 32	0.01999	0.09147	-0.08363	-0.0168	0.0031	-0.0348
40	575	710	-30	SLU 33	0.21801	0.09143	-0.0573	-0.0168	0.0338	-0.0348
40	575	710	-30	SLU 34	0.10827	0	-0.08303	0	0.0168	0
40	575	710	-30	SLU 35	0.25332	0.05485	-0.05706	-0.0101	0.0393	-0.0209
40	575	710	-30	SLU 36	-0.29654	0	-0.13997	0	-0.046	0
40	575	710	-30	SLU 37	-0.15151	0.0549	-0.114	-0.0101	-0.0235	-0.0209

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
40	575	710	-30	SLU 38	-0.0985	0	-0.11364	0	-0.0153	0
40	575	710	-30	SLU 39	0.04653	0.05486	-0.08767	-0.0101	0.0072	-0.0209
40	575	710	-30	SLU 40	-0.21599	0	-0.12624	0	-0.0335	0
40	575	710	-30	SLU 41	0.02573	0.09147	-0.08295	-0.0168	0.004	-0.0348
40	575	710	-30	SLU 42	0.22375	0.09143	-0.05662	-0.0168	0.0347	-0.0348
40	575	710	-30	SLU 43	0.11402	0	-0.08235	0	0.0177	0
40	575	710	-30	SLU 44	0.25907	0.05485	-0.05638	-0.0101	0.0402	-0.0209
40	575	710	-30	SLU 45	-0.04908	0.09148	-0.096	-0.0168	-0.0076	-0.0348
40	575	710	-30	SLU 46	0.14895	0.09144	-0.06967	-0.0168	0.0231	-0.0348
40	575	710	-30	SLU 47	0.03922	0	-0.0954	0	0.0061	0
40	575	710	-30	SLU 48	0.18426	0.05485	-0.06943	-0.0101	0.0286	-0.0209
40	575	710	-30	SLU 49	-0.3656	0	-0.15234	0	-0.0567	0
40	575	710	-30	SLU 50	-0.22058	0.05489	-0.12637	-0.0101	-0.0342	-0.0209
40	575	710	-30	SLU 51	-0.16759	0	-0.12601	0	-0.026	0
40	575	710	-30	SLU 52	-0.02254	0.05488	-0.10004	-0.0101	-0.0035	-0.0209
40	575	710	-30	SLE RA 1	-0.15906	0	-0.09584	0	-0.0247	0
40	575	710	-30	SLE RA 2	0.00209	0.06098	-0.06698	-0.0112	0.0003	-0.0232
40	575	710	-30	SLE RA 3	0.1341	0.06095	-0.04942	-0.0112	0.0208	-0.0232
40	575	710	-30	SLE RA 4	0.06094	0	-0.06658	0	0.0094	0
40	575	710	-30	SLE RA 5	0.15764	0.03657	-0.04926	-0.0067	0.0244	-0.0139
40	575	710	-30	SLE RA 6	-0.0478	0.06099	-0.07568	-0.0112	-0.0074	-0.0232
40	575	710	-30	SLE RA 7	0.08423	0.06096	-0.05813	-0.0112	0.0131	-0.0232
40	575	710	-30	SLE RA 8	0.01108	0	-0.07528	0	0.0017	0
40	575	710	-30	SLE RA 9	0.10777	0.03657	-0.05797	-0.0067	0.0167	-0.0139
40	575	710	-30	SLE RA 10	-0.2588	0	-0.11324	0	-0.0401	0
40	575	710	-30	SLE RA 11	-0.16212	0.03659	-0.09592	-0.0067	-0.0251	-0.0139
40	575	710	-30	SLE RA 12	-0.1268	0	-0.09568	0	-0.0197	0
40	575	710	-30	SLE RA 13	-0.0301	0.03659	-0.07837	-0.0067	-0.0047	-0.0139
40	575	710	-30	SLE FR 1	-0.15906	0	-0.09584	0	-0.0247	0
40	575	710	-30	SLE FR 2	-0.12683	0.0122	-0.09006	-0.0022	-0.0197	-0.0046
40	575	710	-30	SLE FR 3	-0.11506	0	-0.08998	0	-0.0178	0
40	575	710	-30	SLE FR 4	-0.17901	0	-0.09932	0	-0.0277	0
40	575	710	-30	SLE QP 1	-0.15906	0	-0.09584	0	-0.0247	0
40	575	710	-30	SLD 1	-0.257	-0.07685	-0.09861	0.0141	-0.0398	0.0344
40	575	710	-30	SLD 2	-0.257	-0.07685	-0.09861	0.0141	-0.0398	0.0344
40	575	710	-30	SLD 3	-0.257	0.07685	-0.09861	-0.0141	-0.0398	-0.0344
40	575	710	-30	SLD 4	-0.257	0.07685	-0.09861	-0.0141	-0.0398	-0.0344
40	575	710	-30	SLD 5	-0.18839	-0.25616	-0.09667	0.0472	-0.0292	0.1147
40	575	710	-30	SLD 6	-0.18839	-0.25616	-0.09667	0.0472	-0.0292	0.1147
40	575	710	-30	SLD 7	-0.18839	0.25616	-0.09667	-0.0472	-0.0292	-0.1147
40	575	710	-30	SLD 8	-0.18839	0.25616	-0.09667	-0.0472	-0.0292	-0.1147
40	575	710	-30	SLD 9	-0.12961	-0.25616	-0.095	0.0472	-0.0201	0.1147
40	575	710	-30	SLD 10	-0.12961	-0.25616	-0.095	0.0472	-0.0201	0.1147
40	575	710	-30	SLD 11	-0.12961	0.25616	-0.095	-0.0472	-0.0201	-0.1147
40	575	710	-30	SLD 12	-0.12961	0.25616	-0.095	-0.0472	-0.0201	-0.1147
40	575	710	-30	SLD 13	-0.06107	-0.07686	-0.09306	0.0142	-0.0095	0.0344
40	575	710	-30	SLD 14	-0.06107	-0.07686	-0.09306	0.0142	-0.0095	0.0344
40	575	710	-30	SLD 15	-0.06107	0.07686	-0.09306	-0.0142	-0.0095	-0.0344
40	575	710	-30	SLD 16	-0.06107	0.07686	-0.09306	-0.0142	-0.0095	-0.0344
40	575	710	-30	SLV 1	-0.41065	-0.1974	-0.10296	0.0363	-0.0637	0.0884
40	575	710	-30	SLV 2	-0.41065	-0.1974	-0.10296	0.0363	-0.0637	0.0884
40	575	710	-30	SLV 3	-0.41065	0.1974	-0.10296	-0.0363	-0.0637	-0.0884
40	575	710	-30	SLV 4	-0.41065	0.1974	-0.10296	-0.0363	-0.0637	-0.0884
40	575	710	-30	SLV 5	-0.23443	-0.65801	-0.09797	0.1211	-0.0363	0.2946
40	575	710	-30	SLV 6	-0.23443	-0.65801	-0.09797	0.1211	-0.0363	0.2946
40	575	710	-30	SLV 7	-0.23443	0.65801	-0.09797	-0.1211	-0.0363	-0.2946
40	575	710	-30	SLV 8	-0.23443	0.65801	-0.09797	-0.1211	-0.0363	-0.2946
40	575	710	-30	SLV 9	-0.08344	-0.65802	-0.0937	0.1211	-0.0129	0.2946
40	575	710	-30	SLV 10	-0.08344	-0.65802	-0.0937	0.1211	-0.0129	0.2946
40	575	710	-30	SLV 11	-0.08344	0.65802	-0.0937	-0.1211	-0.0129	-0.2946
40	575	710	-30	SLV 12	-0.08344	0.65802	-0.0937	-0.1211	-0.0129	-0.2946
40	575	710	-30	SLV 13	0.09263	-0.19743	-0.08872	0.0363	0.0144	0.0884
40	575	710	-30	SLV 14	0.09263	-0.19743	-0.08872	0.0363	0.0144	0.0884
40	575	710	-30	SLV 15	0.09263	0.19743	-0.08872	-0.0363	0.0144	-0.0884
40	575	710	-30	SLV 16	0.09263	0.19743	-0.08872	-0.0363	0.0144	-0.0884
40	575	710	-30	SLV FO 1	-0.41065	-0.1974	-0.10296	0.0363	-0.0637	0.0884
40	575	710	-30	SLV FO 2	-0.41065	-0.1974	-0.10296	0.0363	-0.0637	0.0884
40	575	710	-30	SLV FO 3	-0.41065	0.1974	-0.10296	-0.0363	-0.0637	-0.0884
40	575	710	-30	SLV FO 4	-0.41065	0.1974	-0.10296	-0.0363	-0.0637	-0.0884
40	575	710	-30	SLV FO 5	-0.23443	-0.65801	-0.09797	0.1211	-0.0363	0.2946
40	575	710	-30	SLV FO 6	-0.23443	-0.65801	-0.09797	0.1211	-0.0363	0.2946
40	575	710	-30	SLV FO 7	-0.23443	0.65801	-0.09797	-0.1211	-0.0363	-0.2946
40	575	710	-30	SLV FO 8	-0.23443	0.65801	-0.09797	-0.1211	-0.0363	-0.2946
40	575	710	-30	SLV FO 9	-0.08344	-0.65802	-0.0937	0.1211	-0.0129	0.2946
40	575	710	-30	SLV FO 10	-0.08344	-0.65802	-0.0937	0.1211	-0.0129	0.2946
40	575	710	-30	SLV FO 11	-0.08344	0.65802	-0.0937	-0.1211	-0.0129	-0.2946
40	575	710	-30	SLV FO 12	-0.08344	0.65802	-0.0937	-0.1211	-0.0129	-0.2946
40	575	710	-30	SLV FO 13	0.09263	-0.19743	-0.08872	0.0363	0.0144	0.0884
40	575	710	-30	SLV FO 14	0.09263	-0.19743	-0.08872	0.0363	0.0144	0.0884
40	575	710	-30	SLV FO 15	0.09263	0.19743	-0.08872	-0.0363	0.0144	-0.0884
40	575	710	-30	SLV FO 16	0.09263	0.19743	-0.08872	-0.0363	0.0144	-0.0884
41	2045	710	-30	SLU 1	0.12343	0	-0.08223	0	0.0191	0
41	2045	710	-30	SLU 2	-0.17086	0.11499	-0.04669	-0.0209	-0.0265	-0.0209
41	2045	710	-30	SLU 3	-0.29283	0.11503	-0.0263	-0.0209	-0.0454	-0.0209
41	2045	710	-30	SLU 4	-0.07991	0	-0.04824	0	-0.0124	0
41	2045	710	-30	SLU 5	-0.25643	0.06904	-0.02691	-0.0125	-0.0397	-0.0125
41	2045	710	-30	SLU 6	-0.08035	0.11498	-0.05754	-0.0209	-0.0125	-0.0209
41	2045	710	-30	SLU 7	-0.20229	0.11502	-0.03715	-0.0209	-0.0314	-0.0209
41	2045	710	-30	SLU 8	0.01063	0	-0.05909	0	0.0016	0
41	2045	710	-30	SLU 9	-0.1659	0.06903	-0.03777	-0.0125	-0.0257	-0.0125
41	2045	710	-30	SLU 10	0.30445	0	-0.10394	0	0.0472	0
41	2045	710	-30	SLU 11	0.12788	0.06897	-0.08261	-0.0125	0.0198	-0.0125
41	2045	710	-30	SLU 12	0.18253	0	-0.08354	0	0.0283	0
41	2045	710	-30	SLU 13	0.00596	0.06901	-0.06222	-0.0125	0.0009	-0.0125
41	2045	710	-30	SLU 14	0.20749	0	-0.09239	0	0.0322	0
41	2045	710	-30	SLU 15	-0.08679	0.11498	-0.05685	-0.0209	-0.0135	-0.0209
41	2045	710	-30	SLU 16	-0.20874	0.11502	-0.03645	-0.0209	-0.0324	-0.0209
41	2045	710	-30	SLU 17	0.00418	0	-0.05839	0	0.0006	0
41	2045	710	-30	SLU 18	-0.17235	0.06903	-0.03707	-0.0125	-0.0267	-0.0125
41	2045	710	-30	SLU 19	0.00374	0.11497	-0.0677	-0.0209	0.0006	-0.0209
41	2045	710	-30	SLU 20	-0.1182	0.11502	-0.0473	-0.0209	-0.0183	-0.0209
41	2045	710	-30	SLU 21	0.09473	0	-0.06924	0	0.0147	0
41	2045	710	-30	SLU 22	-0.08183	0.06903	-0.04792	-0.0125	-0.0127	-0.0125

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
41	2045	710	-30	SLU 23	0.38852	0	-0.11409	0	0.0602	0
41	2045	710	-30	SLU 24	0.21195	0.06896	-0.09277	-0.0125	0.0329	-0.0125
41	2045	710	-30	SLU 25	0.26662	0	-0.0937	0	0.0413	0
41	2045	710	-30	SLU 26	0.09002	0.06899	-0.07237	-0.0125	0.014	-0.0125
41	2045	710	-30	SLU 27	0.16045	0	-0.10691	0	0.0249	0
41	2045	710	-30	SLU 28	-0.13382	0.11499	-0.07136	-0.0209	-0.0207	-0.0209
41	2045	710	-30	SLU 29	-0.25579	0.11503	-0.05097	-0.0209	-0.0397	-0.0209
41	2045	710	-30	SLU 30	-0.04287	0	-0.07291	0	-0.0066	0
41	2045	710	-30	SLU 31	-0.21939	0.06904	-0.05158	-0.0125	-0.034	-0.0125
41	2045	710	-30	SLU 32	-0.04331	0.11497	-0.08222	-0.0209	-0.0067	-0.0209
41	2045	710	-30	SLU 33	-0.16525	0.11502	-0.06182	-0.0209	-0.0256	-0.0209
41	2045	710	-30	SLU 34	0.04767	0	-0.08376	0	0.0074	0
41	2045	710	-30	SLU 35	-0.12886	0.06903	-0.06244	-0.0125	-0.02	-0.0125
41	2045	710	-30	SLU 36	0.34148	0	-0.12861	0	0.0529	0
41	2045	710	-30	SLU 37	0.16491	0.06896	-0.10728	-0.0125	0.0256	-0.0125
41	2045	710	-30	SLU 38	0.21957	0	-0.10821	0	0.034	0
41	2045	710	-30	SLU 39	0.043	0.06901	-0.08689	-0.0125	0.0067	-0.0125
41	2045	710	-30	SLU 40	0.24452	0	-0.11706	0	0.0379	0
41	2045	710	-30	SLU 41	-0.04976	0.11497	-0.08152	-0.0209	-0.0077	-0.0209
41	2045	710	-30	SLU 42	-0.1717	0.11502	-0.06112	-0.0209	-0.0266	-0.0209
41	2045	710	-30	SLU 43	0.04123	0	-0.08306	0	0.0064	0
41	2045	710	-30	SLU 44	-0.13531	0.06903	-0.06174	-0.0125	-0.021	-0.0125
41	2045	710	-30	SLU 45	0.04076	0.11496	-0.09237	-0.0208	0.0063	-0.0209
41	2045	710	-30	SLU 46	-0.08116	0.11501	-0.07197	-0.0209	-0.0126	-0.0209
41	2045	710	-30	SLU 47	0.13177	0	-0.09391	0	0.0204	0
41	2045	710	-30	SLU 48	-0.04479	0.06903	-0.07259	-0.0125	-0.0069	-0.0125
41	2045	710	-30	SLU 49	0.42555	0	-0.13876	0	0.066	0
41	2045	710	-30	SLU 50	0.24898	0.06896	-0.11744	-0.0125	0.0386	-0.0125
41	2045	710	-30	SLU 51	0.30359	0	-0.11837	0	0.0471	0
41	2045	710	-30	SLU 52	0.12705	0.06899	-0.09704	-0.0125	0.0197	-0.0125
41	2045	710	-30	SLE RA 1	0.17947	0	-0.089	0	0.0278	0
41	2045	710	-30	SLE RA 2	-0.01671	0.07665	-0.06531	-0.0139	-0.0026	-0.0139
41	2045	710	-30	SLE RA 3	-0.098	0.07668	-0.05171	-0.0139	-0.0152	-0.0139
41	2045	710	-30	SLE RA 4	0.04395	0	-0.06634	0	0.0068	0
41	2045	710	-30	SLE RA 5	-0.07374	0.04602	-0.05212	-0.0083	-0.0114	-0.0084
41	2045	710	-30	SLE RA 6	0.04362	0.07664	-0.07254	-0.0139	0.0068	-0.0139
41	2045	710	-30	SLE RA 7	-0.03766	0.07667	-0.05895	-0.0139	-0.0058	-0.0139
41	2045	710	-30	SLE RA 8	0.10431	0	-0.07357	0	0.0162	0
41	2045	710	-30	SLE RA 9	-0.01339	0.04602	-0.05936	-0.0083	-0.0021	-0.0084
41	2045	710	-30	SLE RA 10	0.30016	0	-0.10347	0	0.0465	0
41	2045	710	-30	SLE RA 11	0.18244	0.04597	-0.08926	-0.0083	0.0283	-0.0084
41	2045	710	-30	SLE RA 12	0.21885	0	-0.08987	0	0.0339	0
41	2045	710	-30	SLE RA 13	0.10116	0.04599	-0.07566	-0.0083	0.0157	-0.0084
41	2045	710	-30	SLE FR 1	0.17947	0	-0.089	0	0.0278	0
41	2045	710	-30	SLE FR 2	0.14023	0.01532	-0.08427	-0.0028	0.0217	-0.0028
41	2045	710	-30	SLE FR 3	0.15237	0	-0.08447	0	0.0236	0
41	2045	710	-30	SLE FR 4	0.20361	0	-0.0919	0	0.0316	0
41	2045	710	-30	SLE QP 1	0.17947	0	-0.089	0	0.0278	0
41	2045	710	-30	SLD 1	0.02388	-0.07587	-0.08629	0.0138	0.0037	0.0197
41	2045	710	-30	SLD 2	0.02388	-0.07587	-0.08629	0.0138	0.0037	0.0197
41	2045	710	-30	SLD 3	0.02388	0.07587	-0.08629	-0.0138	0.0037	-0.0197
41	2045	710	-30	SLD 4	0.02388	0.07587	-0.08629	-0.0138	0.0037	-0.0197
41	2045	710	-30	SLD 5	0.13284	-0.25293	-0.08819	0.0459	0.0206	0.0656
41	2045	710	-30	SLD 6	0.13284	-0.25293	-0.08819	0.0459	0.0206	0.0656
41	2045	710	-30	SLD 7	0.13284	0.25293	-0.08819	-0.0459	0.0206	-0.0656
41	2045	710	-30	SLD 8	0.13284	0.25293	-0.08819	-0.0459	0.0206	-0.0656
41	2045	710	-30	SLD 9	0.22621	-0.25294	-0.08982	0.0459	0.0351	0.0656
41	2045	710	-30	SLD 10	0.22621	-0.25294	-0.08982	0.0459	0.0351	0.0656
41	2045	710	-30	SLD 11	0.22621	0.25294	-0.08982	-0.0459	0.0351	-0.0656
41	2045	710	-30	SLD 12	0.22621	0.25294	-0.08982	-0.0459	0.0351	-0.0656
41	2045	710	-30	SLD 13	0.33513	-0.07588	-0.09172	0.0138	0.0519	0.0197
41	2045	710	-30	SLD 14	0.33513	-0.07588	-0.09172	0.0138	0.0519	0.0197
41	2045	710	-30	SLD 15	0.33513	0.07588	-0.09172	-0.0138	0.0519	-0.0197
41	2045	710	-30	SLD 16	0.33513	0.07588	-0.09172	-0.0138	0.0519	-0.0197
41	2045	710	-30	SLV 1	-0.22024	-0.19491	-0.08203	0.0354	-0.0341	0.0505
41	2045	710	-30	SLV 2	-0.22024	-0.19491	-0.08203	0.0354	-0.0341	0.0505
41	2045	710	-30	SLV 3	-0.22024	0.19491	-0.08203	-0.0354	-0.0341	-0.0505
41	2045	710	-30	SLV 4	-0.22024	0.19491	-0.08203	-0.0354	-0.0341	-0.0505
41	2045	710	-30	SLV 5	0.05961	-0.64979	-0.08691	0.1179	0.0092	0.1685
41	2045	710	-30	SLV 6	0.05961	-0.64979	-0.08691	0.1179	0.0092	0.1685
41	2045	710	-30	SLV 7	0.05961	0.64979	-0.08691	-0.1179	0.0092	-0.1685
41	2045	710	-30	SLV 8	0.05961	0.64979	-0.08691	-0.1179	0.0092	-0.1685
41	2045	710	-30	SLV 9	0.29947	-0.6498	-0.0911	0.1179	0.0464	0.1685
41	2045	710	-30	SLV 10	0.29947	-0.6498	-0.0911	0.1179	0.0464	0.1685
41	2045	710	-30	SLV 11	0.29947	0.6498	-0.0911	-0.1179	0.0464	-0.1685
41	2045	710	-30	SLV 12	0.29947	0.6498	-0.0911	-0.1179	0.0464	-0.1685
41	2045	710	-30	SLV 13	0.57928	-0.19494	-0.09599	0.0354	0.0898	0.0506
41	2045	710	-30	SLV 14	0.57928	-0.19494	-0.09599	0.0354	0.0898	0.0506
41	2045	710	-30	SLV 15	0.57928	0.19494	-0.09599	-0.0354	0.0898	-0.0506
41	2045	710	-30	SLV 16	0.57928	0.19494	-0.09599	-0.0354	0.0898	-0.0506
41	2045	710	-30	SLV FO 1	-0.22024	-0.19491	-0.08203	0.0354	-0.0341	0.0505
41	2045	710	-30	SLV FO 2	-0.22024	-0.19491	-0.08203	0.0354	-0.0341	0.0505
41	2045	710	-30	SLV FO 3	-0.22024	0.19491	-0.08203	-0.0354	-0.0341	-0.0505
41	2045	710	-30	SLV FO 4	-0.22024	0.19491	-0.08203	-0.0354	-0.0341	-0.0505
41	2045	710	-30	SLV FO 5	0.05961	-0.64979	-0.08691	0.1179	0.0092	0.1685
41	2045	710	-30	SLV FO 6	0.05961	-0.64979	-0.08691	0.1179	0.0092	0.1685
41	2045	710	-30	SLV FO 7	0.05961	0.64979	-0.08691	-0.1179	0.0092	-0.1685
41	2045	710	-30	SLV FO 8	0.05961	0.64979	-0.08691	-0.1179	0.0092	-0.1685
41	2045	710	-30	SLV FO 9	0.29947	-0.6498	-0.0911	0.1179	0.0464	0.1685
41	2045	710	-30	SLV FO 10	0.29947	-0.6498	-0.0911	0.1179	0.0464	0.1685
41	2045	710	-30	SLV FO 11	0.29947	0.6498	-0.0911	-0.1179	0.0464	-0.1685
41	2045	710	-30	SLV FO 12	0.29947	0.6498	-0.0911	-0.1179	0.0464	-0.1685
41	2045	710	-30	SLV FO 13	0.57928	-0.19494	-0.09599	0.0354	0.0898	0.0506
41	2045	710	-30	SLV FO 14	0.57928	-0.19494	-0.09599	0.0354	0.0898	0.0506
41	2045	710	-30	SLV FO 15	0.57928	0.19494	-0.09599	-0.0354	0.0898	-0.0506
41	2045	710	-30	SLV FO 16	0.57928	0.19494	-0.09599	-0.0354	0.0898	-0.0506
42	575	1210	-30	SLU 1	-0.10292	0	-0.08336	0	-0.016	0
42	575	1210	-30	SLU 2	0.04439	0.0914	-0.06111	-0.0168	0.0069	-0.0348
42	575	1210	-30	SLU 3	0.17495	0.09137	-0.0472	-0.0168	0.0271	-0.0348
42	575	1210	-30	SLU 4	0.11465	-0.00001	-0.06019	0	0.0178	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
42	575	1210	-30	SLU 5	0.20304	0.0548	-0.04684	-0.0101	0.0315	-0.0209
42	575	1210	-30	SLU 6	0.00138	0.09141	-0.06783	-0.0168	0.0002	-0.0348
42	575	1210	-30	SLU 7	0.13194	0.09137	-0.05393	-0.0168	0.0205	-0.0348
42	575	1210	-30	SLU 8	0.07164	-0.00001	-0.06692	0	0.0111	0
42	575	1210	-30	SLU 9	0.16003	0.05481	-0.05356	-0.0101	0.0248	-0.0209
42	575	1210	-30	SLU 10	-0.18892	0	-0.09681	0	-0.0293	0
42	575	1210	-30	SLU 11	-0.10055	0.05486	-0.08345	-0.0101	-0.0156	-0.0209
42	575	1210	-30	SLU 12	-0.0584	0	-0.08291	0	-0.0091	0
42	575	1210	-30	SLU 13	0.02999	0.05483	-0.06955	-0.0101	0.0046	-0.0209
42	575	1210	-30	SLU 14	-0.1428	0	-0.08973	0	-0.0221	0
42	575	1210	-30	SLU 15	0.00451	0.09141	-0.06748	-0.0168	0.0007	-0.0348
42	575	1210	-30	SLU 16	0.13506	0.09137	-0.05357	-0.0168	0.0209	-0.0348
42	575	1210	-30	SLU 17	0.07476	-0.00001	-0.06656	0	0.0116	0
42	575	1210	-30	SLU 18	0.16315	0.05481	-0.05321	-0.0101	0.0253	-0.0209
42	575	1210	-30	SLU 19	-0.03851	0.09142	-0.0742	-0.0168	-0.006	-0.0348
42	575	1210	-30	SLU 20	0.09205	0.09137	-0.0603	-0.0168	0.0143	-0.0348
42	575	1210	-30	SLU 21	0.03175	-0.00001	-0.07329	0	0.0049	0
42	575	1210	-30	SLU 22	0.12015	0.05481	-0.05993	-0.0101	0.0186	-0.0209
42	575	1210	-30	SLU 23	-0.2288	0	-0.10318	0	-0.0355	0
42	575	1210	-30	SLU 24	-0.14043	0.05487	-0.08982	-0.0101	-0.0218	-0.0209
42	575	1210	-30	SLU 25	-0.09829	0	-0.08928	0	-0.0152	0
42	575	1210	-30	SLU 26	-0.0099	0.05484	-0.07592	-0.0101	-0.0015	-0.0209
42	575	1210	-30	SLU 27	-0.1338	0	-0.10837	0	-0.0207	0
42	575	1210	-30	SLU 28	0.01351	0.0914	-0.08612	-0.0168	0.0021	-0.0348
42	575	1210	-30	SLU 29	0.14407	0.09137	-0.07221	-0.0168	0.0223	-0.0348
42	575	1210	-30	SLU 30	0.08377	-0.00001	-0.0852	0	0.013	0
42	575	1210	-30	SLU 31	0.17216	0.0548	-0.07185	-0.0101	0.0267	-0.0209
42	575	1210	-30	SLU 32	-0.0295	0.09142	-0.09284	-0.0168	-0.0046	-0.0348
42	575	1210	-30	SLU 33	0.10106	0.09137	-0.07893	-0.0168	0.0157	-0.0348
42	575	1210	-30	SLU 34	0.04076	-0.00001	-0.09192	0	0.0063	0
42	575	1210	-30	SLU 35	0.12915	0.05481	-0.07857	-0.0101	0.02	-0.0209
42	575	1210	-30	SLU 36	-0.2198	0	-0.12182	0	-0.0341	0
42	575	1210	-30	SLU 37	-0.13143	0.05487	-0.10846	-0.0101	-0.0204	-0.0209
42	575	1210	-30	SLU 38	-0.08928	0	-0.10791	0	-0.0138	0
42	575	1210	-30	SLU 39	-0.00089	0.05483	-0.09456	-0.0101	-0.0001	-0.0209
42	575	1210	-30	SLU 40	-0.17368	0	-0.11474	0	-0.0269	0
42	575	1210	-30	SLU 41	-0.02637	0.09142	-0.09249	-0.0168	-0.0041	-0.0348
42	575	1210	-30	SLU 42	0.10418	0.09137	-0.07858	-0.0168	0.0161	-0.0348
42	575	1210	-30	SLU 43	0.04388	-0.00001	-0.09157	0	0.0068	0
42	575	1210	-30	SLU 44	0.13227	0.05481	-0.07822	-0.0101	0.0205	-0.0209
42	575	1210	-30	SLU 45	-0.06938	0.09143	-0.09921	-0.0168	-0.0108	-0.0348
42	575	1210	-30	SLU 46	0.06117	0.09138	-0.08531	-0.0168	0.0095	-0.0348
42	575	1210	-30	SLU 47	0.00087	-0.00001	-0.09829	0	0.0001	0
42	575	1210	-30	SLU 48	0.08927	0.05481	-0.08494	-0.0101	0.0138	-0.0209
42	575	1210	-30	SLU 49	-0.25968	0	-0.12819	0	-0.0403	0
42	575	1210	-30	SLU 50	-0.17131	0.05487	-0.11483	-0.0101	-0.0266	-0.0209
42	575	1210	-30	SLU 51	-0.12915	0	-0.11428	0	-0.02	0
42	575	1210	-30	SLU 52	-0.04078	0.05485	-0.10093	-0.0101	-0.0063	-0.0209
42	575	1210	-30	SLE RA 1	-0.12951	0	-0.08761	0	-0.0201	0
42	575	1210	-30	SLE RA 2	-0.03131	0.06095	-0.07277	-0.0112	-0.0049	-0.0232
42	575	1210	-30	SLE RA 3	0.05573	0.06092	-0.0635	-0.0112	0.0086	-0.0232
42	575	1210	-30	SLE RA 4	0.01553	-0.00001	-0.07216	0	0.0024	0
42	575	1210	-30	SLE RA 5	0.07446	0.03654	-0.06326	-0.0067	0.0115	-0.0139
42	575	1210	-30	SLE RA 6	-0.05998	0.06096	-0.07725	-0.0112	-0.0093	-0.0232
42	575	1210	-30	SLE RA 7	0.02705	0.06093	-0.06799	-0.0112	0.0042	-0.0232
42	575	1210	-30	SLE RA 8	-0.01314	-0.00001	-0.07665	0	-0.002	0
42	575	1210	-30	SLE RA 9	0.04579	0.03654	-0.06774	-0.0067	0.0071	-0.0139
42	575	1210	-30	SLE RA 10	-0.18684	0	-0.09657	0	-0.029	0
42	575	1210	-30	SLE RA 11	-0.12793	0.03658	-0.08767	-0.0067	-0.0198	-0.0139
42	575	1210	-30	SLE RA 12	-0.09982	0	-0.0873	0	-0.0155	0
42	575	1210	-30	SLE RA 13	-0.04091	0.03657	-0.0784	-0.0067	-0.0063	-0.0139
42	575	1210	-30	SLE FR 1	-0.12951	0	-0.08761	0	-0.0201	0
42	575	1210	-30	SLE FR 2	-0.10987	0.01219	-0.08464	-0.0022	-0.017	-0.0046
42	575	1210	-30	SLE FR 3	-0.1005	0	-0.08452	0	-0.0156	0
42	575	1210	-30	SLE FR 4	-0.14097	0	-0.0894	0	-0.0219	0
42	575	1210	-30	SLE QP 1	-0.12951	0	-0.08761	0	-0.0201	0
42	575	1210	-30	SLD 1	-0.23087	-0.07682	-0.09035	0.0141	-0.0358	0.0343
42	575	1210	-30	SLD 2	-0.23087	-0.07682	-0.09035	0.0141	-0.0358	0.0343
42	575	1210	-30	SLD 3	-0.20389	0.0768	-0.08998	-0.0141	-0.0316	-0.0344
42	575	1210	-30	SLD 4	-0.20389	0.0768	-0.08998	-0.0141	-0.0316	-0.0344
42	575	1210	-30	SLD 5	-0.20084	-0.25608	-0.08901	0.0471	-0.0311	0.1145
42	575	1210	-30	SLD 6	-0.20084	-0.25608	-0.08901	0.0471	-0.0311	0.1145
42	575	1210	-30	SLD 7	-0.11092	0.256	-0.08775	-0.0471	-0.0172	-0.1146
42	575	1210	-30	SLD 8	-0.11092	0.256	-0.08775	-0.0471	-0.0172	-0.1146
42	575	1210	-30	SLD 9	-0.14812	-0.25608	-0.08748	0.0471	-0.023	0.1145
42	575	1210	-30	SLD 10	-0.14812	-0.25608	-0.08748	0.0471	-0.023	0.1145
42	575	1210	-30	SLD 11	-0.0582	0.256	-0.08621	-0.0471	-0.009	-0.1146
42	575	1210	-30	SLD 12	-0.0582	0.256	-0.08621	-0.0471	-0.009	-0.1146
42	575	1210	-30	SLD 13	-0.05513	-0.07684	-0.08525	0.0141	-0.0085	0.0344
42	575	1210	-30	SLD 14	-0.05513	-0.07684	-0.08525	0.0141	-0.0085	0.0344
42	575	1210	-30	SLD 15	-0.02817	0.07681	-0.08487	-0.0141	-0.0044	-0.0344
42	575	1210	-30	SLD 16	-0.02817	0.07681	-0.08487	-0.0141	-0.0044	-0.0344
42	575	1210	-30	SLV 1	-0.38989	-0.19734	-0.09466	0.0363	-0.0604	0.0882
42	575	1210	-30	SLV 2	-0.38989	-0.19734	-0.09466	0.0363	-0.0604	0.0882
42	575	1210	-30	SLV 3	-0.32059	0.19729	-0.09368	-0.0363	-0.0497	-0.0884
42	575	1210	-30	SLV 4	-0.32059	0.19729	-0.09368	-0.0363	-0.0497	-0.0884
42	575	1210	-30	SLV 5	-0.31276	-0.65781	-0.0912	0.1211	-0.0485	0.2942
42	575	1210	-30	SLV 6	-0.31276	-0.65781	-0.0912	0.1211	-0.0485	0.2942
42	575	1210	-30	SLV 7	-0.08172	0.65761	-0.08796	-0.1211	-0.0127	-0.2945
42	575	1210	-30	SLV 8	-0.08172	0.65761	-0.08796	-0.1211	-0.0127	-0.2945
42	575	1210	-30	SLV 9	-0.17733	-0.65782	-0.08726	0.1211	-0.0275	0.2942
42	575	1210	-30	SLV 10	-0.17733	-0.65782	-0.08726	0.1211	-0.0275	0.2942
42	575	1210	-30	SLV 11	0.05371	0.65762	-0.08402	-0.1211	0.0083	-0.2945
42	575	1210	-30	SLV 12	0.05371	0.65762	-0.08402	-0.1211	0.0083	-0.2945
42	575	1210	-30	SLV 13	0.06156	-0.19737	-0.08154	0.0363	0.0095	0.0883
42	575	1210	-30	SLV 14	0.06156	-0.19737	-0.08154	0.0363	0.0095	0.0883
42	575	1210	-30	SLV 15	0.13085	0.1973	-0.08056	-0.0363	0.0203	-0.0883
42	575	1210	-30	SLV 16	0.13085	0.1973	-0.08056	-0.0363	0.0203	-0.0883
42	575	1210	-30	SLV FO 1	-0.38989	-0.19734	-0.09466	0.0363	-0.0604	0.0882
42	575	1210	-30	SLV FO 2	-0.38989	-0.19734	-0.09466	0.0363	-0.0604	0.0882
42	575	1210	-30	SLV FO 3	-0.32059	0.19729	-0.09368	-0.0363	-0.0497	-0.0884
42	575	1210	-30	SLV FO 4	-0.32059	0.19729	-0.09368	-0.0363	-0.0497	-0.0884
42	575	1210	-30	SLV FO 5	-0.31276	-0.65781	-0.0912	0.1211	-0.0485	0.2942

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
42	575	1210	-30	SLV FO 6	-0.31276	-0.65781	-0.0912	0.1211	-0.0485	0.2942
42	575	1210	-30	SLV FO 7	-0.08172	0.65761	-0.08796	-0.1211	-0.0127	-0.2945
42	575	1210	-30	SLV FO 8	-0.08172	0.65761	-0.08796	-0.1211	-0.0127	-0.2945
42	575	1210	-30	SLV FO 9	-0.17733	-0.65782	-0.08726	0.1211	-0.0275	0.2942
42	575	1210	-30	SLV FO 10	-0.17733	-0.65782	-0.08726	0.1211	-0.0275	0.2942
42	575	1210	-30	SLV FO 11	0.05371	0.65762	-0.08402	-0.1211	0.0083	-0.2945
42	575	1210	-30	SLV FO 12	0.05371	0.65762	-0.08402	-0.1211	0.0083	-0.2945
42	575	1210	-30	SLV FO 13	0.06156	-0.19737	-0.08154	0.0363	0.0095	0.0883
42	575	1210	-30	SLV FO 14	0.06156	-0.19737	-0.08154	0.0363	0.0095	0.0883
42	575	1210	-30	SLV FO 15	0.13085	0.1973	-0.08056	-0.0363	0.0203	-0.0883
42	575	1210	-30	SLV FO 16	0.13085	0.1973	-0.08056	-0.0363	0.0203	-0.0883
43	2045	1210	-30	SLU 1	0.09772	0	-0.07839	0	0.0151	0
43	2045	1210	-30	SLU 2	-0.00058	0.11484	-0.06161	-0.0208	-0.0001	-0.0208
43	2045	1210	-30	SLU 3	-0.0216	0.11486	-0.0522	-0.0208	-0.0033	-0.0208
43	2045	1210	-30	SLU 4	0.06266	-0.00003	-0.0627	0	0.0097	0
43	2045	1210	-30	SLU 5	0.00368	0.06892	-0.05264	-0.0125	0.0006	-0.0125
43	2045	1210	-30	SLU 6	0.03455	0.11483	-0.06683	-0.0208	0.0054	-0.0208
43	2045	1210	-30	SLU 7	0.01353	0.11486	-0.05742	-0.0208	0.0021	-0.0208
43	2045	1210	-30	SLU 8	0.0978	-0.00002	-0.06793	0	0.0152	0
43	2045	1210	-30	SLU 9	0.03882	0.06891	-0.05786	-0.0125	0.006	-0.0125
43	2045	1210	-30	SLU 10	0.16801	-0.00002	-0.08883	0	0.026	0
43	2045	1210	-30	SLU 11	0.10901	0.06889	-0.07876	-0.0125	0.0169	-0.0125
43	2045	1210	-30	SLU 12	0.14694	0	-0.07942	0	0.0228	0
43	2045	1210	-30	SLU 13	0.08798	0.06891	-0.06935	-0.0125	0.0136	-0.0125
43	2045	1210	-30	SLU 14	0.13009	-0.00001	-0.08327	0	0.0202	0
43	2045	1210	-30	SLU 15	0.03178	0.11483	-0.06649	-0.0208	0.0049	-0.0208
43	2045	1210	-30	SLU 16	0.01076	0.11486	-0.05708	-0.0208	0.0017	-0.0208
43	2045	1210	-30	SLU 17	0.09502	-0.00002	-0.06759	0	0.0147	0
43	2045	1210	-30	SLU 18	0.03605	0.06891	-0.05752	-0.0125	0.0056	-0.0125
43	2045	1210	-30	SLU 19	0.06691	0.11483	-0.07171	-0.0208	0.0104	-0.0208
43	2045	1210	-30	SLU 20	0.0459	0.11486	-0.0623	-0.0208	0.0071	-0.0208
43	2045	1210	-30	SLU 21	0.13016	-0.00002	-0.07281	0	0.0202	0
43	2045	1210	-30	SLU 22	0.0712	0.06892	-0.06274	-0.0125	0.011	-0.0125
43	2045	1210	-30	SLU 23	0.20039	-0.00002	-0.09371	0	0.0311	0
43	2045	1210	-30	SLU 24	0.14139	0.06889	-0.08365	-0.0125	0.0219	-0.0125
43	2045	1210	-30	SLU 25	0.17931	0	-0.0843	0	0.0278	0
43	2045	1210	-30	SLU 26	0.12034	0.0689	-0.07423	-0.0125	0.0187	-0.0125
43	2045	1210	-30	SLU 27	0.12703	-0.00001	-0.10191	0	0.0197	0
43	2045	1210	-30	SLU 28	0.02872	0.11484	-0.08513	-0.0208	0.0045	-0.0208
43	2045	1210	-30	SLU 29	0.00771	0.11486	-0.07572	-0.0208	0.0012	-0.0208
43	2045	1210	-30	SLU 30	0.09197	-0.00003	-0.08622	0	0.0143	0
43	2045	1210	-30	SLU 31	0.03299	0.06892	-0.07615	-0.0125	0.0051	-0.0125
43	2045	1210	-30	SLU 32	0.06386	0.11483	-0.09035	-0.0208	0.0099	-0.0208
43	2045	1210	-30	SLU 33	0.04284	0.11486	-0.08094	-0.0208	0.0066	-0.0208
43	2045	1210	-30	SLU 34	0.1271	-0.00002	-0.09144	0	0.0197	0
43	2045	1210	-30	SLU 35	0.06813	0.06891	-0.08137	-0.0125	0.0106	-0.0125
43	2045	1210	-30	SLU 36	0.19733	-0.00002	-0.11235	0	0.0306	0
43	2045	1210	-30	SLU 37	0.13832	0.06889	-0.10228	-0.0125	0.0214	-0.0125
43	2045	1210	-30	SLU 38	0.17625	0	-0.10294	0	0.0273	0
43	2045	1210	-30	SLU 39	0.11728	0.06891	-0.09287	-0.0125	0.0182	-0.0125
43	2045	1210	-30	SLU 40	0.15941	-0.00001	-0.10679	0	0.0247	0
43	2045	1210	-30	SLU 41	0.06109	0.11483	-0.09001	-0.0208	0.0095	-0.0208
43	2045	1210	-30	SLU 42	0.04007	0.11486	-0.0806	-0.0208	0.0062	-0.0208
43	2045	1210	-30	SLU 43	0.12433	-0.00002	-0.0911	0	0.0193	0
43	2045	1210	-30	SLU 44	0.06535	0.06891	-0.08104	-0.0125	0.0101	-0.0125
43	2045	1210	-30	SLU 45	0.09622	0.11482	-0.09523	-0.0208	0.0149	-0.0208
43	2045	1210	-30	SLU 46	0.0752	0.11486	-0.08582	-0.0208	0.0117	-0.0208
43	2045	1210	-30	SLU 47	0.15947	-0.00002	-0.09632	0	0.0247	0
43	2045	1210	-30	SLU 48	0.10051	0.06892	-0.08626	-0.0125	0.0156	-0.0125
43	2045	1210	-30	SLU 49	0.22971	-0.00003	-0.11723	0	0.0356	0
43	2045	1210	-30	SLU 50	0.1707	0.06889	-0.10716	-0.0125	0.0265	-0.0125
43	2045	1210	-30	SLU 51	0.20866	0	-0.10782	0	0.0323	0
43	2045	1210	-30	SLU 52	0.14965	0.0689	-0.09775	-0.0125	0.0232	-0.0125
43	2045	1210	-30	SLE RA 1	0.1193	-0.00001	-0.08164	0	0.0185	0
43	2045	1210	-30	SLE RA 2	0.05375	0.07655	-0.07046	-0.0139	0.0083	-0.0139
43	2045	1210	-30	SLE RA 3	0.03974	0.07657	-0.06418	-0.0139	0.0062	-0.0139
43	2045	1210	-30	SLE RA 4	0.09591	-0.00001	-0.07119	0	0.0149	0
43	2045	1210	-30	SLE RA 5	0.0566	0.04594	-0.06448	-0.0083	0.0088	-0.0083
43	2045	1210	-30	SLE RA 6	0.07718	0.07655	-0.07394	-0.0139	0.012	-0.0139
43	2045	1210	-30	SLE RA 7	0.06316	0.07657	-0.06766	-0.0139	0.0098	-0.0139
43	2045	1210	-30	SLE RA 8	0.11934	-0.00001	-0.07467	0	0.0185	0
43	2045	1210	-30	SLE RA 9	0.08003	0.04595	-0.06796	-0.0083	0.0124	-0.0083
43	2045	1210	-30	SLE RA 10	0.16617	-0.00002	-0.08861	0	0.0258	0
43	2045	1210	-30	SLE RA 11	0.12683	0.04593	-0.08189	-0.0083	0.0197	-0.0083
43	2045	1210	-30	SLE RA 12	0.15213	0	-0.08233	0	0.0236	0
43	2045	1210	-30	SLE RA 13	0.11279	0.04593	-0.07562	-0.0083	0.0175	-0.0083
43	2045	1210	-30	SLE FR 1	0.1193	-0.00001	-0.08164	0	0.0185	0
43	2045	1210	-30	SLE FR 2	0.10619	0.01531	-0.07941	-0.0028	0.0165	-0.0028
43	2045	1210	-30	SLE FR 3	0.11462	0	-0.07955	0	0.0178	0
43	2045	1210	-30	SLE FR 4	0.12867	-0.00001	-0.08304	0	0.0199	0
43	2045	1210	-30	SLE QP 1	0.1193	-0.00001	-0.08164	0	0.0185	0
43	2045	1210	-30	SLD 1	-0.0493	-0.07596	-0.07855	0.0138	-0.0076	0.0197
43	2045	1210	-30	SLD 2	-0.0493	-0.07596	-0.07855	0.0138	-0.0076	0.0197
43	2045	1210	-30	SLD 3	0.00136	0.07581	-0.07958	-0.0138	0.0002	-0.0197
43	2045	1210	-30	SLD 4	0.00136	0.07581	-0.07958	-0.0138	0.0002	-0.0197
43	2045	1210	-30	SLD 5	-0.00817	-0.25317	-0.07915	0.0459	-0.0013	0.0658
43	2045	1210	-30	SLD 6	-0.00817	-0.25317	-0.07915	0.0459	-0.0013	0.0658
43	2045	1210	-30	SLD 7	0.16073	0.25268	-0.08259	-0.0458	0.0249	-0.0655
43	2045	1210	-30	SLD 8	0.16073	0.25268	-0.08259	-0.0458	0.0249	-0.0655
43	2045	1210	-30	SLD 9	0.07778	-0.25317	-0.0807	0.0459	0.0121	0.0658
43	2045	1210	-30	SLD 10	0.07778	-0.25317	-0.0807	0.0459	0.0121	0.0658
43	2045	1210	-30	SLD 11	0.24668	0.25268	-0.08414	-0.0458	0.0382	-0.0655
43	2045	1210	-30	SLD 12	0.24668	0.25268	-0.08414	-0.0458	0.0382	-0.0655
43	2045	1210	-30	SLD 13	0.23721	-0.07594	-0.08371	0.0138	0.0368	0.0197
43	2045	1210	-30	SLD 14	0.23721	-0.07594	-0.08371	0.0138	0.0368	0.0197
43	2045	1210	-30	SLD 15	0.28785	0.07579	-0.08474	-0.0137	0.0446	-0.0196
43	2045	1210	-30	SLD 16	0.28785	0.07579	-0.08474	-0.0137	0.0446	-0.0196
43	2045	1210	-30	SLV 1	-0.31383	-0.19513	-0.07369	0.0354	-0.0486	0.0507
43	2045	1210	-30	SLV 2	-0.31383	-0.19513	-0.07369	0.0354	-0.0486	0.0507
43	2045	1210	-30	SLV 3	-0.18365	0.19475	-0.07634	-0.0353	-0.0285	-0.0505

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
43	2045	1210	-30	SLV 4	-0.18365	0.19475	-0.07634	-0.0353	-0.0285	-0.0505
43	2045	1210	-30	SLV 5	-0.20816	-0.65038	-0.07524	0.118	-0.0323	0.169
43	2045	1210	-30	SLV 6	-0.20816	-0.65038	-0.07524	0.118	-0.0323	0.169
43	2045	1210	-30	SLV 7	0.22579	0.64913	-0.08407	-0.1177	0.035	-0.1682
43	2045	1210	-30	SLV 8	0.22579	0.64913	-0.08407	-0.1177	0.035	-0.1682
43	2045	1210	-30	SLV 9	0.01265	-0.65037	-0.07922	0.118	0.002	0.169
43	2045	1210	-30	SLV 10	0.01265	-0.65037	-0.07922	0.118	0.002	0.169
43	2045	1210	-30	SLV 11	0.44659	0.64912	-0.08805	-0.1177	0.0692	-0.1682
43	2045	1210	-30	SLV 12	0.44659	0.64912	-0.08805	-0.1177	0.0692	-0.1682
43	2045	1210	-30	SLV 13	0.4222	-0.19508	-0.08695	0.0354	0.0654	0.0507
43	2045	1210	-30	SLV 14	0.4222	-0.19508	-0.08695	0.0354	0.0654	0.0507
43	2045	1210	-30	SLV 15	0.55234	0.19472	-0.0896	-0.0353	0.0856	-0.0504
43	2045	1210	-30	SLV 16	0.55234	0.19472	-0.0896	-0.0353	0.0856	-0.0504
43	2045	1210	-30	SLV FO 1	-0.31383	-0.19513	-0.07369	0.0354	-0.0486	0.0507
43	2045	1210	-30	SLV FO 2	-0.31383	-0.19513	-0.07369	0.0354	-0.0486	0.0507
43	2045	1210	-30	SLV FO 3	-0.18365	0.19475	-0.07634	-0.0353	-0.0285	-0.0505
43	2045	1210	-30	SLV FO 4	-0.18365	0.19475	-0.07634	-0.0353	-0.0285	-0.0505
43	2045	1210	-30	SLV FO 5	-0.20816	-0.65038	-0.07524	0.118	-0.0323	0.169
43	2045	1210	-30	SLV FO 6	-0.20816	-0.65038	-0.07524	0.118	-0.0323	0.169
43	2045	1210	-30	SLV FO 7	0.22579	0.64913	-0.08407	-0.1177	0.035	-0.1682
43	2045	1210	-30	SLV FO 8	0.22579	0.64913	-0.08407	-0.1177	0.035	-0.1682
43	2045	1210	-30	SLV FO 9	0.01265	-0.65037	-0.07922	0.118	0.002	0.169
43	2045	1210	-30	SLV FO 10	0.01265	-0.65037	-0.07922	0.118	0.002	0.169
43	2045	1210	-30	SLV FO 11	0.44659	0.64912	-0.08805	-0.1177	0.0692	-0.1682
43	2045	1210	-30	SLV FO 12	0.44659	0.64912	-0.08805	-0.1177	0.0692	-0.1682
43	2045	1210	-30	SLV FO 13	0.4222	-0.19508	-0.08695	0.0354	0.0654	0.0507
43	2045	1210	-30	SLV FO 14	0.4222	-0.19508	-0.08695	0.0354	0.0654	0.0507
43	2045	1210	-30	SLV FO 15	0.55234	0.19472	-0.0896	-0.0353	0.0856	-0.0504
43	2045	1210	-30	SLV FO 16	0.55234	0.19472	-0.0896	-0.0353	0.0856	-0.0504
44	575	210	-20	SLU 1	-0.10597	0	-0.08364	0	-0.0162	0
44	575	210	-20	SLU 2	0.0298	0.0956	-0.06103	-0.0255	0.0045	-0.0349
44	575	210	-20	SLU 3	0.16418	0.09558	-0.04695	-0.0255	0.0251	-0.0349
44	575	210	-20	SLU 4	0.11804	0.00001	-0.06018	0	0.018	0
44	575	210	-20	SLU 5	0.19947	0.05735	-0.04662	-0.0153	0.0305	-0.0209
44	575	210	-20	SLU 6	-0.01447	0.09562	-0.06784	-0.0255	-0.0022	-0.0349
44	575	210	-20	SLU 7	0.1199	0.09558	-0.05376	-0.0255	0.0183	-0.0349
44	575	210	-20	SLU 8	0.07376	0.00001	-0.06699	0	0.0113	0
44	575	210	-20	SLU 9	0.1552	0.05735	-0.05342	-0.0153	0.0237	-0.0209
44	575	210	-20	SLU 10	-0.19452	0	-0.09726	0	-0.0297	0
44	575	210	-20	SLU 11	-0.11304	0.05738	-0.08369	-0.0153	-0.0173	-0.0209
44	575	210	-20	SLU 12	-0.06013	0	-0.08318	0	-0.0092	0
44	575	210	-20	SLU 13	0.02132	0.05735	-0.06961	-0.0153	0.0033	-0.0209
44	575	210	-20	SLU 14	-0.14703	0	-0.09009	0	-0.0224	0
44	575	210	-20	SLU 15	-0.01125	0.09562	-0.06748	-0.0255	-0.0017	-0.0349
44	575	210	-20	SLU 16	0.12311	0.09558	-0.0534	-0.0255	0.0188	-0.0349
44	575	210	-20	SLU 17	0.07698	0.00001	-0.06663	0	0.0118	0
44	575	210	-20	SLU 18	0.15841	0.05735	-0.05307	-0.0153	0.0242	-0.0209
44	575	210	-20	SLU 19	-0.05553	0.09562	-0.07429	-0.0255	-0.0085	-0.0349
44	575	210	-20	SLU 20	0.07883	0.09558	-0.06021	-0.0255	0.012	-0.0349
44	575	210	-20	SLU 21	0.03269	0.00001	-0.07344	0	0.005	0
44	575	210	-20	SLU 22	0.11413	0.05735	-0.05987	-0.0153	0.0174	-0.0209
44	575	210	-20	SLU 23	-0.23558	0	-0.10371	0	-0.036	0
44	575	210	-20	SLU 24	-0.1541	0.05738	-0.09014	-0.0153	-0.0235	-0.0209
44	575	210	-20	SLU 25	-0.1012	0	-0.08963	0	-0.0154	0
44	575	210	-20	SLU 26	-0.01973	0.05736	-0.07606	-0.0153	-0.003	-0.0209
44	575	210	-20	SLU 27	-0.13776	0	-0.10874	0	-0.021	0
44	575	210	-20	SLU 28	-0.00199	0.0956	-0.08612	-0.0255	-0.0003	-0.0349
44	575	210	-20	SLU 29	0.13239	0.09558	-0.07205	-0.0255	0.0202	-0.0349
44	575	210	-20	SLU 30	0.08625	0.00001	-0.08528	0	0.0132	0
44	575	210	-20	SLU 31	0.16768	0.05735	-0.07171	-0.0153	0.0256	-0.0209
44	575	210	-20	SLU 32	-0.04626	0.09562	-0.09293	-0.0255	-0.0071	-0.0349
44	575	210	-20	SLU 33	0.08811	0.09558	-0.07885	-0.0255	0.0135	-0.0349
44	575	210	-20	SLU 34	0.04197	0.00001	-0.09208	0	0.0064	0
44	575	210	-20	SLU 35	0.12341	0.05735	-0.07852	-0.0153	0.0188	-0.0209
44	575	210	-20	SLU 36	-0.22631	0	-0.12235	0	-0.0345	0
44	575	210	-20	SLU 37	-0.14483	0.05739	-0.10878	-0.0153	-0.0221	-0.0209
44	575	210	-20	SLU 38	-0.09193	0	-0.10827	0	-0.014	0
44	575	210	-20	SLU 39	-0.01047	0.05735	-0.09471	-0.0153	-0.0016	-0.0209
44	575	210	-20	SLU 40	-0.17882	0	-0.11519	0	-0.0273	0
44	575	210	-20	SLU 41	-0.04304	0.09562	-0.09257	-0.0255	-0.0066	-0.0349
44	575	210	-20	SLU 42	0.09132	0.09558	-0.0785	-0.0255	0.0139	-0.0349
44	575	210	-20	SLU 43	0.04518	0.00001	-0.09173	0	0.0069	0
44	575	210	-20	SLU 44	0.12662	0.05735	-0.07816	-0.0153	0.0193	-0.0209
44	575	210	-20	SLU 45	-0.08731	0.09563	-0.09938	-0.0255	-0.0133	-0.0349
44	575	210	-20	SLU 46	0.04704	0.09558	-0.0853	-0.0255	0.0072	-0.0349
44	575	210	-20	SLU 47	0.0009	0.00001	-0.09853	0	0.0001	0
44	575	210	-20	SLU 48	0.08234	0.05735	-0.08497	-0.0153	0.0126	-0.0209
44	575	210	-20	SLU 49	-0.26737	0.00001	-0.1288	0	-0.0408	0
44	575	210	-20	SLU 50	-0.18589	0.05738	-0.11523	-0.0153	-0.0284	-0.0209
44	575	210	-20	SLU 51	-0.13297	0	-0.11472	0	-0.0203	0
44	575	210	-20	SLU 52	-0.05152	0.05737	-0.10116	-0.0153	-0.0079	-0.0209
44	575	210	-20	SLE RA 1	-0.13334	0	-0.08794	0	-0.0204	0
44	575	210	-20	SLE RA 2	-0.04282	0.06375	-0.07287	-0.017	-0.0065	-0.0233
44	575	210	-20	SLE RA 3	0.04675	0.06372	-0.06348	-0.017	0.0071	-0.0232
44	575	210	-20	SLE RA 4	0.01599	0.00001	-0.0723	0	0.0024	0
44	575	210	-20	SLE RA 5	0.07028	0.03823	-0.06326	-0.0102	0.0107	-0.014
44	575	210	-20	SLE RA 6	-0.07233	0.06376	-0.07741	-0.017	-0.011	-0.0233
44	575	210	-20	SLE RA 7	0.01724	0.06373	-0.06802	-0.017	0.0026	-0.0232
44	575	210	-20	SLE RA 8	-0.01353	0.00001	-0.07684	0	-0.0021	0
44	575	210	-20	SLE RA 9	0.04076	0.03823	-0.0678	-0.0102	0.0062	-0.0139
44	575	210	-20	SLE RA 10	-0.19237	0	-0.09702	0	-0.0294	0
44	575	210	-20	SLE RA 11	-0.13806	0.03825	-0.08797	-0.0102	-0.0211	-0.014
44	575	210	-20	SLE RA 12	-0.10278	0	-0.08764	0	-0.0157	0
44	575	210	-20	SLE RA 13	-0.04848	0.03825	-0.07859	-0.0102	-0.0074	-0.014
44	575	210	-20	SLE FR 1	-0.13334	0	-0.08794	0	-0.0204	0
44	575	210	-20	SLE FR 2	-0.11523	0.01275	-0.08493	-0.0034	-0.0176	-0.0047
44	575	210	-20	SLE FR 3	-0.10347	0	-0.08482	0	-0.0158	0
44	575	210	-20	SLE FR 4	-0.14515	0	-0.08976	0	-0.0222	0
44	575	210	-20	SLE QP 1	-0.13334	0	-0.08794	0	-0.0204	0
44	575	210	-20	SLD 1	-0.20993	-0.07998	-0.09034	0.0213	-0.032	0.0346
44	575	210	-20	SLD 2	-0.20993	-0.07998	-0.09034	0.0213	-0.032	0.0346
44	575	210	-20	SLD 3	-0.2377	0.08	-0.09072	-0.0213	-0.0363	-0.0345
44	575	210	-20	SLD 4	-0.2377	0.08	-0.09072	-0.0213	-0.0363	-0.0345

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
44	575	210	-20	SLD 5	-0.1142	-0.26659	-0.08808	0.0711	-0.0174	0.1153
44	575	210	-20	SLD 6	-0.1142	-0.26659	-0.08808	0.0711	-0.0174	0.1153
44	575	210	-20	SLD 7	-0.20679	0.26667	-0.08936	-0.0712	-0.0316	-0.1151
44	575	210	-20	SLD 8	-0.20679	0.26667	-0.08936	-0.0712	-0.0316	-0.1151
44	575	210	-20	SLD 9	-0.05992	-0.26659	-0.08653	0.0711	-0.0091	0.1153
44	575	210	-20	SLD 10	-0.05992	-0.26659	-0.08653	0.0711	-0.0091	0.1153
44	575	210	-20	SLD 11	-0.15251	0.26667	-0.08781	-0.0712	-0.0233	-0.1151
44	575	210	-20	SLD 12	-0.15251	0.26667	-0.08781	-0.0712	-0.0233	-0.1151
44	575	210	-20	SLD 13	-0.029	-0.07999	-0.08517	0.0213	-0.0044	0.0346
44	575	210	-20	SLD 14	-0.029	-0.07999	-0.08517	0.0213	-0.0044	0.0346
44	575	210	-20	SLD 15	-0.05676	0.08002	-0.08555	-0.0214	-0.0087	-0.0346
44	575	210	-20	SLD 16	-0.05676	0.08002	-0.08555	-0.0214	-0.0087	-0.0346
44	575	210	-20	SLV 1	-0.33007	-0.20545	-0.0941	0.0548	-0.0504	0.0888
44	575	210	-20	SLV 2	-0.33007	-0.20545	-0.0941	0.0548	-0.0504	0.0888
44	575	210	-20	SLV 3	-0.40143	0.2055	-0.09508	-0.0548	-0.0613	-0.0887
44	575	210	-20	SLV 4	-0.40143	0.2055	-0.09508	-0.0548	-0.0613	-0.0887
44	575	210	-20	SLV 5	-0.08414	-0.68481	-0.0883	0.1827	-0.0128	0.2961
44	575	210	-20	SLV 6	-0.08414	-0.68481	-0.0883	0.1827	-0.0128	0.2961
44	575	210	-20	SLV 7	-0.32202	0.68502	-0.09158	-0.1828	-0.0492	-0.2958
44	575	210	-20	SLV 8	-0.32202	0.68502	-0.09158	-0.1828	-0.0492	-0.2958
44	575	210	-20	SLV 9	0.0553	-0.68481	-0.08431	0.1827	0.0084	0.2961
44	575	210	-20	SLV 10	0.0553	-0.68481	-0.08431	0.1827	0.0084	0.2961
44	575	210	-20	SLV 11	-0.18258	0.68503	-0.08759	-0.1828	-0.0279	-0.2958
44	575	210	-20	SLV 12	-0.18258	0.68503	-0.08759	-0.1828	-0.0279	-0.2958
44	575	210	-20	SLV 13	0.13472	-0.20546	-0.08081	0.0548	0.0206	0.0888
44	575	210	-20	SLV 14	0.13472	-0.20546	-0.08081	0.0548	0.0206	0.0888
44	575	210	-20	SLV 15	0.06338	0.20553	-0.08179	-0.0548	0.0097	-0.0888
44	575	210	-20	SLV 16	0.06338	0.20553	-0.08179	-0.0548	0.0097	-0.0888
44	575	210	-20	SLV FO 1	-0.33007	-0.20545	-0.0941	0.0548	-0.0504	0.0888
44	575	210	-20	SLV FO 2	-0.33007	-0.20545	-0.0941	0.0548	-0.0504	0.0888
44	575	210	-20	SLV FO 3	-0.40143	0.2055	-0.09508	-0.0548	-0.0613	-0.0887
44	575	210	-20	SLV FO 4	-0.40143	0.2055	-0.09508	-0.0548	-0.0613	-0.0887
44	575	210	-20	SLV FO 5	-0.08414	-0.68481	-0.0883	0.1827	-0.0128	0.2961
44	575	210	-20	SLV FO 6	-0.08414	-0.68481	-0.0883	0.1827	-0.0128	0.2961
44	575	210	-20	SLV FO 7	-0.32202	0.68502	-0.09158	-0.1828	-0.0492	-0.2958
44	575	210	-20	SLV FO 8	-0.32202	0.68502	-0.09158	-0.1828	-0.0492	-0.2958
44	575	210	-20	SLV FO 9	0.0553	-0.68481	-0.08431	0.1827	0.0084	0.2961
44	575	210	-20	SLV FO 10	0.0553	-0.68481	-0.08431	0.1827	0.0084	0.2961
44	575	210	-20	SLV FO 11	-0.18258	0.68503	-0.08759	-0.1828	-0.0279	-0.2958
44	575	210	-20	SLV FO 12	-0.18258	0.68503	-0.08759	-0.1828	-0.0279	-0.2958
44	575	210	-20	SLV FO 13	0.13472	-0.20546	-0.08081	0.0548	0.0206	0.0888
44	575	210	-20	SLV FO 14	0.13472	-0.20546	-0.08081	0.0548	0.0206	0.0888
44	575	210	-20	SLV FO 15	0.06338	0.20553	-0.08179	-0.0548	0.0097	-0.0888
44	575	210	-20	SLV FO 16	0.06338	0.20553	-0.08179	-0.0548	0.0097	-0.0888
45	2045	210	-20	SLU 1	0.10061	0	-0.07861	0	0.0154	0
45	2045	210	-20	SLU 2	-0.0315	0.17343	-0.061	-0.0388	-0.0048	-0.0359
45	2045	210	-20	SLU 3	-0.0532	0.17344	-0.05147	-0.0388	-0.0081	-0.0359
45	2045	210	-20	SLU 4	0.06451	0.00003	-0.06273	0	0.0098	0
45	2045	210	-20	SLU 5	-0.01481	0.10406	-0.05216	-0.0233	-0.0023	-0.0216
45	2045	210	-20	SLU 6	0.00471	0.17342	-0.06629	-0.0388	0.0007	-0.0359
45	2045	210	-20	SLU 7	-0.01702	0.17344	-0.05675	-0.0388	-0.0026	-0.0359
45	2045	210	-20	SLU 8	0.10069	0.00002	-0.06801	0	0.0154	0
45	2045	210	-20	SLU 9	0.02139	0.10406	-0.05745	-0.0233	0.0033	-0.0216
45	2045	210	-20	SLU 10	0.17299	0.00002	-0.08918	0	0.0264	0
45	2045	210	-20	SLU 11	0.09376	0.10404	-0.07862	-0.0233	0.0143	-0.0216
45	2045	210	-20	SLU 12	0.15129	0	-0.07965	0	0.0231	0
45	2045	210	-20	SLU 13	0.07202	0.10406	-0.06909	-0.0233	0.011	-0.0216
45	2045	210	-20	SLU 14	0.13394	0.00001	-0.08355	0	0.0204	0
45	2045	210	-20	SLU 15	0.00186	0.17342	-0.06594	-0.0388	0.0003	-0.0359
45	2045	210	-20	SLU 16	-0.01987	0.17344	-0.05641	-0.0388	-0.003	-0.0359
45	2045	210	-20	SLU 17	0.09784	0.00002	-0.06767	0	0.0149	0
45	2045	210	-20	SLU 18	0.01854	0.10406	-0.0571	-0.0233	0.0028	-0.0216
45	2045	210	-20	SLU 19	0.03805	0.17342	-0.07123	-0.0388	0.0058	-0.0359
45	2045	210	-20	SLU 20	0.01631	0.17344	-0.0617	-0.0388	0.0025	-0.0359
45	2045	210	-20	SLU 21	0.13401	0.00002	-0.07296	0	0.0205	0
45	2045	210	-20	SLU 22	0.05471	0.10406	-0.06239	-0.0233	0.0084	-0.0216
45	2045	210	-20	SLU 23	0.20632	0.00003	-0.09413	0	0.0315	0
45	2045	210	-20	SLU 24	0.12709	0.10405	-0.08356	-0.0233	0.0194	-0.0216
45	2045	210	-20	SLU 25	0.18462	0	-0.0846	0	0.0282	0
45	2045	210	-20	SLU 26	0.10538	0.10405	-0.07403	-0.0233	0.0161	-0.0216
45	2045	210	-20	SLU 27	0.13079	0.00001	-0.10219	0	0.02	0
45	2045	210	-20	SLU 28	-0.00132	0.17343	-0.08458	-0.0388	-0.0002	-0.0359
45	2045	210	-20	SLU 29	-0.02302	0.17344	-0.07505	-0.0388	-0.0035	-0.0359
45	2045	210	-20	SLU 30	0.09469	0.00003	-0.08631	0	0.0145	0
45	2045	210	-20	SLU 31	0.01537	0.10406	-0.07574	-0.0233	0.0023	-0.0216
45	2045	210	-20	SLU 32	0.03489	0.17342	-0.08987	-0.0388	0.0053	-0.0359
45	2045	210	-20	SLU 33	0.01316	0.17344	-0.08034	-0.0388	0.002	-0.0359
45	2045	210	-20	SLU 34	0.13087	0.00002	-0.0916	0	0.02	0
45	2045	210	-20	SLU 35	0.05157	0.10406	-0.08103	-0.0233	0.0079	-0.0216
45	2045	210	-20	SLU 36	0.20317	0.00002	-0.11277	0	0.031	0
45	2045	210	-20	SLU 37	0.12394	0.10404	-0.1022	-0.0233	0.0189	-0.0216
45	2045	210	-20	SLU 38	0.18147	0	-0.10324	0	0.0277	0
45	2045	210	-20	SLU 39	0.1022	0.10406	-0.09267	-0.0233	0.0156	-0.0216
45	2045	210	-20	SLU 40	0.16413	0.00001	-0.10713	0	0.0251	0
45	2045	210	-20	SLU 41	0.03204	0.17342	-0.08952	-0.0388	0.0049	-0.0359
45	2045	210	-20	SLU 42	0.01031	0.17344	-0.07999	-0.0388	0.0016	-0.0359
45	2045	210	-20	SLU 43	0.12801	0.00002	-0.09125	0	0.0195	0
45	2045	210	-20	SLU 44	0.04871	0.10406	-0.08068	-0.0233	0.0074	-0.0216
45	2045	210	-20	SLU 45	0.06824	0.17341	-0.09481	-0.0388	0.0104	-0.0359
45	2045	210	-20	SLU 46	0.04649	0.17344	-0.08528	-0.0388	0.0071	-0.0359
45	2045	210	-20	SLU 47	0.16419	0.00002	-0.09654	0	0.0251	0
45	2045	210	-20	SLU 48	0.08489	0.10406	-0.08597	-0.0233	0.013	-0.0216
45	2045	210	-20	SLU 49	0.23651	0.00003	-0.11771	0	0.0361	0
45	2045	210	-20	SLU 50	0.15727	0.10404	-0.10714	-0.0233	0.024	-0.0216
45	2045	210	-20	SLU 51	0.21483	0	-0.10818	0	0.0328	0
45	2045	210	-20	SLU 52	0.13556	0.10405	-0.09761	-0.0233	0.0207	-0.0216
45	2045	210	-20	SLE RA 1	0.12283	0.00001	-0.0819	0	0.0188	0
45	2045	210	-20	SLE RA 2	0.03477	0.11561	-0.07016	-0.0259	0.0053	-0.024
45	2045	210	-20	SLE RA 3	0.02028	0.11563	-0.06381	-0.0259	0.0031	-0.024
45	2045	210	-20	SLE RA 4	0.09875	0.00002	-0.07132	0	0.0151	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
45	2045	210	-20	SLE RA 5	0.04589	0.06937	-0.06427	-0.0155	0.007	-0.0144
45	2045	210	-20	SLE RA 6	0.05892	0.1156	-0.07369	-0.0259	0.009	-0.024
45	2045	210	-20	SLE RA 7	0.04442	0.11562	-0.06733	-0.0259	0.0068	-0.024
45	2045	210	-20	SLE RA 8	0.12287	0.00001	-0.07484	0	0.0188	0
45	2045	210	-20	SLE RA 9	0.07001	0.06938	-0.0678	-0.0155	0.0107	-0.0144
45	2045	210	-20	SLE RA 10	0.17108	0.00002	-0.08895	0	0.0261	0
45	2045	210	-20	SLE RA 11	0.11826	0.06936	-0.08191	-0.0155	0.0181	-0.0144
45	2045	210	-20	SLE RA 12	0.15664	0	-0.0826	0	0.0239	0
45	2045	210	-20	SLE RA 13	0.10379	0.06937	-0.07556	-0.0155	0.0158	-0.0144
45	2045	210	-20	SLE FR 1	0.12283	0.00001	-0.0819	0	0.0188	0
45	2045	210	-20	SLE FR 2	0.10523	0.02312	-0.07956	-0.0052	0.0161	-0.0048
45	2045	210	-20	SLE FR 3	0.11802	0	-0.07979	0	0.018	0
45	2045	210	-20	SLE FR 4	0.13248	0.00001	-0.08331	0	0.0202	0
45	2045	210	-20	SLE QP 1	0.12283	0.00001	-0.0819	0	0.0188	0
45	2045	210	-20	SLD 1	0.0014	-0.07886	-0.07981	0.0202	0.0002	0.0198
45	2045	210	-20	SLD 2	0.0014	-0.07886	-0.07981	0.0202	0.0002	0.0198
45	2045	210	-20	SLD 3	-0.05076	0.07902	-0.07877	-0.0202	-0.0077	-0.0198
45	2045	210	-20	SLD 4	-0.05076	0.07902	-0.07877	-0.0202	-0.0077	-0.0198
45	2045	210	-20	SLD 5	0.16549	-0.26286	-0.08286	0.0674	0.0253	0.0658
45	2045	210	-20	SLD 6	0.16549	-0.26286	-0.08286	0.0674	0.0253	0.0658
45	2045	210	-20	SLD 7	-0.00841	0.26336	-0.07938	-0.0675	-0.0013	-0.0661
45	2045	210	-20	SLD 8	-0.00841	0.26336	-0.07938	-0.0675	-0.0013	-0.0661
45	2045	210	-20	SLD 9	0.25399	-0.26285	-0.08443	0.0674	0.0388	0.0658
45	2045	210	-20	SLD 10	0.25399	-0.26285	-0.08443	0.0674	0.0388	0.0658
45	2045	210	-20	SLD 11	0.08009	0.26336	-0.08095	-0.0675	0.0122	-0.0661
45	2045	210	-20	SLD 12	0.08009	0.26336	-0.08095	-0.0675	0.0122	-0.0661
45	2045	210	-20	SLD 13	0.29637	-0.07884	-0.08504	0.0202	0.0452	0.0197
45	2045	210	-20	SLD 14	0.29637	-0.07884	-0.08504	0.0202	0.0452	0.0197
45	2045	210	-20	SLD 15	0.24423	0.07899	-0.084	-0.0202	0.0373	-0.0198
45	2045	210	-20	SLD 16	0.24423	0.07899	-0.084	-0.0202	0.0373	-0.0198
45	2045	210	-20	SLV 1	-0.18908	-0.20259	-0.07653	0.0519	-0.0289	0.0508
45	2045	210	-20	SLV 2	-0.18908	-0.20259	-0.07653	0.0519	-0.0289	0.0508
45	2045	210	-20	SLV 3	-0.32312	0.20299	-0.07385	-0.052	-0.0493	-0.051
45	2045	210	-20	SLV 4	-0.32312	0.20299	-0.07385	-0.052	-0.0493	-0.051
45	2045	210	-20	SLV 5	0.23248	-0.67526	-0.08436	0.173	0.0355	0.1691
45	2045	210	-20	SLV 6	0.23248	-0.67526	-0.08436	0.173	0.0355	0.1691
45	2045	210	-20	SLV 7	-0.21432	0.67656	-0.07542	-0.1734	-0.0327	-0.1699
45	2045	210	-20	SLV 8	-0.21432	0.67656	-0.07542	-0.1734	-0.0327	-0.1699
45	2045	210	-20	SLV 9	0.45981	-0.67525	-0.08839	0.173	0.0702	0.1691
45	2045	210	-20	SLV 10	0.45981	-0.67525	-0.08839	0.173	0.0702	0.1691
45	2045	210	-20	SLV 11	0.01302	0.67655	-0.07945	-0.1734	0.002	-0.1699
45	2045	210	-20	SLV 12	0.01302	0.67655	-0.07945	-0.1734	0.002	-0.1699
45	2045	210	-20	SLV 13	0.56868	-0.20255	-0.08996	0.0519	0.0868	0.0507
45	2045	210	-20	SLV 14	0.56868	-0.20255	-0.08996	0.0519	0.0868	0.0507
45	2045	210	-20	SLV 15	0.43469	0.20294	-0.08728	-0.052	0.0664	-0.051
45	2045	210	-20	SLV 16	0.43469	0.20294	-0.08728	-0.052	0.0664	-0.051
45	2045	210	-20	SLV FO 1	-0.18908	-0.20259	-0.07653	0.0519	-0.0289	0.0508
45	2045	210	-20	SLV FO 2	-0.18908	-0.20259	-0.07653	0.0519	-0.0289	0.0508
45	2045	210	-20	SLV FO 3	-0.32312	0.20299	-0.07385	-0.052	-0.0493	-0.051
45	2045	210	-20	SLV FO 4	-0.32312	0.20299	-0.07385	-0.052	-0.0493	-0.051
45	2045	210	-20	SLV FO 5	0.23248	-0.67526	-0.08436	0.173	0.0355	0.1691
45	2045	210	-20	SLV FO 6	0.23248	-0.67526	-0.08436	0.173	0.0355	0.1691
45	2045	210	-20	SLV FO 7	-0.21432	0.67656	-0.07542	-0.1734	-0.0327	-0.1699
45	2045	210	-20	SLV FO 8	-0.21432	0.67656	-0.07542	-0.1734	-0.0327	-0.1699
45	2045	210	-20	SLV FO 9	0.45981	-0.67525	-0.08839	0.173	0.0702	0.1691
45	2045	210	-20	SLV FO 10	0.45981	-0.67525	-0.08839	0.173	0.0702	0.1691
45	2045	210	-20	SLV FO 11	0.01302	0.67655	-0.07945	-0.1734	0.002	-0.1699
45	2045	210	-20	SLV FO 12	0.01302	0.67655	-0.07945	-0.1734	0.002	-0.1699
45	2045	210	-20	SLV FO 13	0.56868	-0.20255	-0.08996	0.0519	0.0868	0.0507
45	2045	210	-20	SLV FO 14	0.56868	-0.20255	-0.08996	0.0519	0.0868	0.0507
45	2045	210	-20	SLV FO 15	0.43469	0.20294	-0.08728	-0.052	0.0664	-0.051
45	2045	210	-20	SLV FO 16	0.43469	0.20294	-0.08728	-0.052	0.0664	-0.051
46	575	710	-20	SLU 1	-0.11636	0	-0.08793	0	-0.0178	0
46	575	710	-20	SLU 2	0.13251	0.09523	-0.0441	-0.0254	0.0202	-0.035
46	575	710	-20	SLU 3	0.33637	0.0952	-0.01744	-0.0254	0.0514	-0.035
46	575	710	-20	SLU 4	0.22339	0	-0.04349	0	0.0341	0
46	575	710	-20	SLU 5	0.37274	0.05711	-0.01719	-0.0152	0.0569	-0.021
46	575	710	-20	SLU 6	0.05549	0.09525	-0.05731	-0.0254	0.0085	-0.035
46	575	710	-20	SLU 7	0.25936	0.09521	-0.03065	-0.0254	0.0396	-0.035
46	575	710	-20	SLU 8	0.14638	0	-0.0567	0	0.0223	0
46	575	710	-20	SLU 9	0.29572	0.05712	-0.03041	-0.0152	0.0451	-0.021
46	575	710	-20	SLU 10	-0.27041	0	-0.11436	0	-0.0413	0
46	575	710	-20	SLU 11	-0.12109	0.05716	-0.08806	-0.0152	-0.0185	-0.021
46	575	710	-20	SLU 12	-0.06652	0	-0.08769	0	-0.0102	0
46	575	710	-20	SLU 13	0.08281	0.05713	-0.0614	-0.0152	0.0126	-0.021
46	575	710	-20	SLU 14	-0.18747	0	-0.10045	0	-0.0286	0
46	575	710	-20	SLU 15	0.0614	0.09525	-0.05662	-0.0254	0.0094	-0.035
46	575	710	-20	SLU 16	0.26527	0.09521	-0.02996	-0.0254	0.0405	-0.035
46	575	710	-20	SLU 17	0.15229	0	-0.05601	0	0.0233	0
46	575	710	-20	SLU 18	0.30164	0.05712	-0.02971	-0.0152	0.0461	-0.021
46	575	710	-20	SLU 19	-0.01561	0.09525	-0.06983	-0.0254	-0.0024	-0.035
46	575	710	-20	SLU 20	0.18827	0.09521	-0.04317	-0.0254	0.0287	-0.035
46	575	710	-20	SLU 21	0.07529	0	-0.06923	0	0.0115	0
46	575	710	-20	SLU 22	0.22461	0.05712	-0.04293	-0.0152	0.0343	-0.021
46	575	710	-20	SLU 23	-0.34151	0	-0.12688	0	-0.0521	0
46	575	710	-20	SLU 24	-0.1922	0.05716	-0.10058	-0.0152	-0.0293	-0.021
46	575	710	-20	SLU 25	-0.13761	0	-0.10022	0	-0.021	0
46	575	710	-20	SLU 26	0.01169	0.05715	-0.07392	-0.0152	0.0018	-0.021
46	575	710	-20	SLU 27	-0.15127	0	-0.1143	0	-0.0231	0
46	575	710	-20	SLU 28	0.0976	0.09523	-0.07047	-0.0254	0.0149	-0.035
46	575	710	-20	SLU 29	0.30147	0.09521	-0.04381	-0.0254	0.046	-0.035
46	575	710	-20	SLU 30	0.18849	0	-0.06987	0	0.0288	0
46	575	710	-20	SLU 31	0.33784	0.05711	-0.04357	-0.0152	0.0516	-0.021
46	575	710	-20	SLU 32	0.02058	0.09525	-0.08369	-0.0254	0.0031	-0.035
46	575	710	-20	SLU 33	0.22446	0.09521	-0.05703	-0.0254	0.0343	-0.035
46	575	710	-20	SLU 34	0.11148	0	-0.08308	0	0.017	0
46	575	710	-20	SLU 35	0.26082	0.05712	-0.05678	-0.0152	0.0398	-0.021
46	575	710	-20	SLU 36	-0.30532	0	-0.14073	0	-0.0466	0
46	575	710	-20	SLU 37	-0.156	0.05716	-0.11444	-0.0152	-0.0238	-0.021
46	575	710	-20	SLU 38	-0.10142	0	-0.11407	0	-0.0155	0
46	575	710	-20	SLU 39	0.0479	0.05713	-0.08778	-0.0152	0.0073	-0.021
46	575	710	-20	SLU 40	-0.22238	0	-0.12683	0	-0.034	0
46	575	710	-20	SLU 41	0.02649	0.09525	-0.083	-0.0254	0.004	-0.035

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
46	575	710	-20	SLU 42	0.23037	0.09521	-0.05633	-0.0254	0.0352	-0.035
46	575	710	-20	SLU 43	0.11739	0	-0.08239	0	0.0179	0
46	575	710	-20	SLU 44	0.26673	0.05712	-0.05609	-0.0152	0.0407	-0.021
46	575	710	-20	SLU 45	-0.05053	0.09526	-0.09621	-0.0254	-0.0077	-0.035
46	575	710	-20	SLU 46	0.15336	0.09521	-0.06955	-0.0254	0.0234	-0.035
46	575	710	-20	SLU 47	0.04038	0	-0.0956	0	0.0062	0
46	575	710	-20	SLU 48	0.18971	0.05712	-0.06931	-0.0152	0.029	-0.021
46	575	710	-20	SLU 49	-0.37642	0	-0.15326	0	-0.0575	0
46	575	710	-20	SLU 50	-0.2271	0.05716	-0.12696	-0.0152	-0.0347	-0.021
46	575	710	-20	SLU 51	-0.17255	0	-0.12659	0	-0.0263	0
46	575	710	-20	SLU 52	-0.02321	0.05715	-0.1003	-0.0152	-0.0035	-0.021
46	575	710	-20	SLE RA 1	-0.16377	0	-0.09627	0	-0.025	0
46	575	710	-20	SLE RA 2	0.00215	0.0635	-0.06705	-0.0169	0.0003	-0.0233
46	575	710	-20	SLE RA 3	0.13807	0.06347	-0.04928	-0.0169	0.0211	-0.0233
46	575	710	-20	SLE RA 4	0.06275	0	-0.06665	0	0.0096	0
46	575	710	-20	SLE RA 5	0.16231	0.03808	-0.04912	-0.0102	0.0248	-0.014
46	575	710	-20	SLE RA 6	-0.04921	0.06351	-0.07587	-0.0169	-0.0075	-0.0234
46	575	710	-20	SLE RA 7	0.08672	0.06348	-0.05809	-0.0169	0.0132	-0.0233
46	575	710	-20	SLE RA 8	0.01141	0	-0.07546	0	0.0017	0
46	575	710	-20	SLE RA 9	0.11096	0.03808	-0.05793	-0.0102	0.0169	-0.014
46	575	710	-20	SLE RA 10	-0.26646	0	-0.11389	0	-0.0407	0
46	575	710	-20	SLE RA 11	-0.16692	0.03811	-0.09636	-0.0102	-0.0255	-0.014
46	575	710	-20	SLE RA 12	-0.13055	0	-0.09612	0	-0.0199	0
46	575	710	-20	SLE RA 13	-0.03099	0.0381	-0.07859	-0.0102	-0.0047	-0.014
46	575	710	-20	SLE FR 1	-0.16377	0	-0.09627	0	-0.025	0
46	575	710	-20	SLE FR 2	-0.13059	0.0127	-0.09043	-0.0034	-0.0199	-0.0047
46	575	710	-20	SLE FR 3	-0.11847	0	-0.09035	0	-0.0181	0
46	575	710	-20	SLE FR 4	-0.18431	0	-0.0998	0	-0.0281	0
46	575	710	-20	SLE QP 1	-0.16377	0	-0.09627	0	-0.025	0
46	575	710	-20	SLD 1	-0.2646	-0.08002	-0.09908	0.0214	-0.0404	0.0346
46	575	710	-20	SLD 2	-0.2646	-0.08002	-0.09908	0.0214	-0.0404	0.0346
46	575	710	-20	SLD 3	-0.2646	0.08002	-0.09908	-0.0214	-0.0404	-0.0346
46	575	710	-20	SLD 4	-0.2646	0.08002	-0.09908	-0.0214	-0.0404	-0.0346
46	575	710	-20	SLD 5	-0.19396	-0.26675	-0.09712	0.0712	-0.0296	0.1153
46	575	710	-20	SLD 6	-0.19396	-0.26675	-0.09712	0.0712	-0.0296	0.1153
46	575	710	-20	SLD 7	-0.19396	0.26675	-0.09712	-0.0712	-0.0296	-0.1153
46	575	710	-20	SLD 8	-0.19396	0.26675	-0.09712	-0.0712	-0.0296	-0.1153
46	575	710	-20	SLD 9	-0.13345	-0.26675	-0.09543	0.0712	-0.0204	0.1153
46	575	710	-20	SLD 10	-0.13345	-0.26675	-0.09543	0.0712	-0.0204	0.1153
46	575	710	-20	SLD 11	-0.13345	0.26675	-0.09543	-0.0712	-0.0204	-0.1153
46	575	710	-20	SLD 12	-0.13345	0.26675	-0.09543	-0.0712	-0.0204	-0.1153
46	575	710	-20	SLD 13	-0.06288	-0.08004	-0.09347	0.0214	-0.0096	0.0346
46	575	710	-20	SLD 14	-0.06288	-0.08004	-0.09347	0.0214	-0.0096	0.0346
46	575	710	-20	SLD 15	-0.06288	0.08004	-0.09347	-0.0214	-0.0096	-0.0346
46	575	710	-20	SLD 16	-0.06288	0.08004	-0.09347	-0.0214	-0.0096	-0.0346
46	575	710	-20	SLV 1	-0.4228	-0.20556	-0.10348	0.0548	-0.0645	0.0889
46	575	710	-20	SLV 2	-0.4228	-0.20556	-0.10348	0.0548	-0.0645	0.0889
46	575	710	-20	SLV 3	-0.4228	0.20556	-0.10348	-0.0548	-0.0645	-0.0889
46	575	710	-20	SLV 4	-0.4228	0.20556	-0.10348	-0.0548	-0.0645	-0.0889
46	575	710	-20	SLV 5	-0.24136	-0.68522	-0.09844	0.1828	-0.0368	0.2962
46	575	710	-20	SLV 6	-0.24136	-0.68522	-0.09844	0.1828	-0.0368	0.2962
46	575	710	-20	SLV 7	-0.24136	0.68522	-0.09844	-0.1828	-0.0368	-0.2962
46	575	710	-20	SLV 8	-0.24136	0.68522	-0.09844	-0.1828	-0.0368	-0.2962
46	575	710	-20	SLV 9	-0.08591	-0.68523	-0.09411	0.1828	-0.0131	0.2962
46	575	710	-20	SLV 10	-0.08591	-0.68523	-0.09411	0.1828	-0.0131	0.2962
46	575	710	-20	SLV 11	-0.08591	0.68523	-0.09411	-0.1828	-0.0131	-0.2962
46	575	710	-20	SLV 12	-0.08591	0.68523	-0.09411	-0.1828	-0.0131	-0.2962
46	575	710	-20	SLV 13	0.09537	-0.20559	-0.08906	0.0549	0.0146	0.0889
46	575	710	-20	SLV 14	0.09537	-0.20559	-0.08906	0.0549	0.0146	0.0889
46	575	710	-20	SLV 15	0.09537	0.20559	-0.08906	-0.0549	0.0146	-0.0889
46	575	710	-20	SLV 16	0.09537	0.20559	-0.08906	-0.0549	0.0146	-0.0889
46	575	710	-20	SLV FO 1	-0.4228	-0.20556	-0.10348	0.0548	-0.0645	0.0889
46	575	710	-20	SLV FO 2	-0.4228	-0.20556	-0.10348	0.0548	-0.0645	0.0889
46	575	710	-20	SLV FO 3	-0.4228	0.20556	-0.10348	-0.0548	-0.0645	-0.0889
46	575	710	-20	SLV FO 4	-0.4228	0.20556	-0.10348	-0.0548	-0.0645	-0.0889
46	575	710	-20	SLV FO 5	-0.24136	-0.68522	-0.09844	0.1828	-0.0368	0.2962
46	575	710	-20	SLV FO 6	-0.24136	-0.68522	-0.09844	0.1828	-0.0368	0.2962
46	575	710	-20	SLV FO 7	-0.24136	0.68522	-0.09844	-0.1828	-0.0368	-0.2962
46	575	710	-20	SLV FO 8	-0.24136	0.68522	-0.09844	-0.1828	-0.0368	-0.2962
46	575	710	-20	SLV FO 9	-0.08591	-0.68523	-0.09411	0.1828	-0.0131	0.2962
46	575	710	-20	SLV FO 10	-0.08591	-0.68523	-0.09411	0.1828	-0.0131	0.2962
46	575	710	-20	SLV FO 11	-0.08591	0.68523	-0.09411	-0.1828	-0.0131	-0.2962
46	575	710	-20	SLV FO 12	-0.08591	0.68523	-0.09411	-0.1828	-0.0131	-0.2962
46	575	710	-20	SLV FO 13	0.09537	-0.20559	-0.08906	0.0549	0.0146	0.0889
46	575	710	-20	SLV FO 14	0.09537	-0.20559	-0.08906	0.0549	0.0146	0.0889
46	575	710	-20	SLV FO 15	0.09537	0.20559	-0.08906	-0.0549	0.0146	-0.0889
46	575	710	-20	SLV FO 16	0.09537	0.20559	-0.08906	-0.0549	0.0146	-0.0889
47	2045	710	-20	SLU 1	0.12708	0	-0.0825	0	0.0194	0
47	2045	710	-20	SLU 2	-0.17591	0.11962	-0.04652	-0.0306	-0.0269	-0.021
47	2045	710	-20	SLU 3	-0.3015	0.11966	-0.02586	-0.0307	-0.046	-0.021
47	2045	710	-20	SLU 4	-0.08228	0	-0.04808	0	-0.0126	0
47	2045	710	-20	SLU 5	-0.26402	0.07182	-0.02649	-0.0184	-0.0403	-0.0126
47	2045	710	-20	SLU 6	-0.08273	0.1196	-0.0575	-0.0306	-0.0126	-0.021
47	2045	710	-20	SLU 7	-0.20828	0.11965	-0.03685	-0.0307	-0.0318	-0.021
47	2045	710	-20	SLU 8	0.01095	0	-0.05907	0	0.0017	0
47	2045	710	-20	SLU 9	-0.17081	0.07181	-0.03747	-0.0184	-0.0261	-0.0126
47	2045	710	-20	SLU 10	0.31346	0	-0.10448	0	0.0479	0
47	2045	710	-20	SLU 11	0.13166	0.07174	-0.08288	-0.0184	0.0201	-0.0126
47	2045	710	-20	SLU 12	0.18793	0	-0.08382	0	0.0287	0
47	2045	710	-20	SLU 13	0.00613	0.07179	-0.06223	-0.0184	0.0009	-0.0126
47	2045	710	-20	SLU 14	0.21364	0	-0.09278	0	0.0326	0
47	2045	710	-20	SLU 15	-0.08936	0.1196	-0.0568	-0.0306	-0.0136	-0.021
47	2045	710	-20	SLU 16	-0.21492	0.11965	-0.03614	-0.0307	-0.0328	-0.021
47	2045	710	-20	SLU 17	0.00431	0	-0.05836	0	0.0007	0
47	2045	710	-20	SLU 18	-0.17745	0.07181	-0.03677	-0.0184	-0.0271	-0.0126
47	2045	710	-20	SLU 19	0.00385	0.1196	-0.06778	-0.0306	0.0006	-0.021
47	2045	710	-20	SLU 20	-0.1217	0.11964	-0.04713	-0.0306	-0.0186	-0.021
47	2045	710	-20	SLU 21	0.09753	0	-0.06935	0	0.0149	0
47	2045	710	-20	SLU 22	-0.08425	0.07181	-0.04776	-0.0184	-0.0129	-0.0126
47	2045	710	-20	SLU 23	0.40002	0	-0.11476	0	0.0611	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
47	2045	710	-20	SLU 24	0.21822	0.07174	-0.09317	-0.0184	0.0333	-0.0126
47	2045	710	-20	SLU 25	0.27451	0	-0.09411	0	0.0419	0
47	2045	710	-20	SLU 26	0.09268	0.07177	-0.07251	-0.0184	0.0141	-0.0126
47	2045	710	-20	SLU 27	0.1652	0	-0.10725	0	0.0252	0
47	2045	710	-20	SLU 28	-0.13778	0.11962	-0.07127	-0.0306	-0.021	-0.021
47	2045	710	-20	SLU 29	-0.26336	0.11966	-0.05061	-0.0307	-0.0402	-0.021
47	2045	710	-20	SLU 30	-0.04414	0	-0.07283	0	-0.0067	0
47	2045	710	-20	SLU 31	-0.22588	0.07182	-0.05124	-0.0184	-0.0345	-0.0126
47	2045	710	-20	SLU 32	-0.04459	0.1196	-0.08225	-0.0306	-0.0068	-0.021
47	2045	710	-20	SLU 33	-0.17014	0.11965	-0.0616	-0.0306	-0.026	-0.021
47	2045	710	-20	SLU 34	0.04908	0	-0.08382	0	0.0075	0
47	2045	710	-20	SLU 35	-0.13268	0.0718	-0.06223	-0.0184	-0.0203	-0.0126
47	2045	710	-20	SLU 36	0.35159	0	-0.12923	0	0.0537	0
47	2045	710	-20	SLU 37	0.16979	0.07174	-0.10764	-0.0184	0.0259	-0.0126
47	2045	710	-20	SLU 38	0.22607	0	-0.10858	0	0.0345	0
47	2045	710	-20	SLU 39	0.04427	0.07178	-0.08698	-0.0184	0.0068	-0.0126
47	2045	710	-20	SLU 40	0.25176	0	-0.11753	0	0.0384	0
47	2045	710	-20	SLU 41	-0.05123	0.1196	-0.08155	-0.0306	-0.0078	-0.021
47	2045	710	-20	SLU 42	-0.17678	0.11965	-0.06089	-0.0306	-0.027	-0.021
47	2045	710	-20	SLU 43	0.04245	0	-0.08311	0	0.0065	0
47	2045	710	-20	SLU 44	-0.13931	0.0718	-0.06152	-0.0184	-0.0213	-0.0126
47	2045	710	-20	SLU 45	0.04196	0.11959	-0.09254	-0.0306	0.0064	-0.021
47	2045	710	-20	SLU 46	-0.08357	0.11964	-0.07188	-0.0306	-0.0128	-0.021
47	2045	710	-20	SLU 47	0.13567	0	-0.0941	0	0.0207	0
47	2045	710	-20	SLU 48	-0.04611	0.0718	-0.07251	-0.0184	-0.007	-0.0126
47	2045	710	-20	SLU 49	0.43814	0	-0.13951	0	0.0669	0
47	2045	710	-20	SLU 50	0.25635	0.07174	-0.11792	-0.0184	0.0391	-0.0126
47	2045	710	-20	SLU 51	0.31257	0	-0.11886	0	0.0477	0
47	2045	710	-20	SLU 52	0.13081	0.07177	-0.09726	-0.0184	0.02	-0.0126
47	2045	710	-20	SLE RA 1	0.18478	0	-0.08936	0	0.0282	0
47	2045	710	-20	SLE RA 2	-0.01721	0.07973	-0.06537	-0.0204	-0.0026	-0.014
47	2045	710	-20	SLE RA 3	-0.1009	0.07977	-0.0516	-0.0204	-0.0154	-0.014
47	2045	710	-20	SLE RA 4	0.04525	0	-0.06641	0	0.0069	0
47	2045	710	-20	SLE RA 5	-0.07593	0.04787	-0.05201	-0.0123	-0.0116	-0.0084
47	2045	710	-20	SLE RA 6	0.04491	0.07972	-0.07269	-0.0204	0.0069	-0.014
47	2045	710	-20	SLE RA 7	-0.03877	0.07975	-0.05892	-0.0204	-0.0059	-0.014
47	2045	710	-20	SLE RA 8	0.1074	0	-0.07373	0	0.0164	0
47	2045	710	-20	SLE RA 9	-0.01379	0.04787	-0.05934	-0.0123	-0.0021	-0.0084
47	2045	710	-20	SLE RA 10	0.30904	0	-0.10401	0	0.0472	0
47	2045	710	-20	SLE RA 11	0.18784	0.04782	-0.08961	-0.0123	0.0287	-0.0084
47	2045	710	-20	SLE RA 12	0.22533	0	-0.09024	0	0.0344	0
47	2045	710	-20	SLE RA 13	0.10416	0.04784	-0.07584	-0.0123	0.0159	-0.0084
47	2045	710	-20	SLE FR 1	0.18478	0	-0.08936	0	0.0282	0
47	2045	710	-20	SLE FR 2	0.14438	0.01594	-0.08456	-0.0041	0.022	-0.0028
47	2045	710	-20	SLE FR 3	0.15688	0	-0.08477	0	0.024	0
47	2045	710	-20	SLE FR 4	0.20963	0	-0.09229	0	0.032	0
47	2045	710	-20	SLE QP 1	0.18478	0	-0.08936	0	0.0282	0
47	2045	710	-20	SLD 1	0.02458	-0.07892	-0.08661	0.0202	0.0038	0.0198
47	2045	710	-20	SLD 2	0.02458	-0.07892	-0.08661	0.0202	0.0038	0.0198
47	2045	710	-20	SLD 3	0.02458	0.07892	-0.08661	-0.0202	0.0038	-0.0198
47	2045	710	-20	SLD 4	0.02458	0.07892	-0.08661	-0.0202	0.0038	-0.0198
47	2045	710	-20	SLD 5	0.13677	-0.26312	-0.08853	0.0674	0.0209	0.066
47	2045	710	-20	SLD 6	0.13677	-0.26312	-0.08853	0.0674	0.0209	0.066
47	2045	710	-20	SLD 7	0.13677	0.26312	-0.08853	-0.0674	0.0209	-0.066
47	2045	710	-20	SLD 8	0.13677	0.26312	-0.08853	-0.0674	0.0209	-0.066
47	2045	710	-20	SLD 9	0.2329	-0.26312	-0.09018	0.0674	0.0356	0.066
47	2045	710	-20	SLD 10	0.2329	-0.26312	-0.09018	0.0674	0.0356	0.066
47	2045	710	-20	SLD 11	0.2329	0.26312	-0.09018	-0.0674	0.0356	-0.066
47	2045	710	-20	SLD 12	0.2329	0.26312	-0.09018	-0.0674	0.0356	-0.066
47	2045	710	-20	SLD 13	0.34505	-0.07893	-0.09211	0.0202	0.0527	0.0198
47	2045	710	-20	SLD 14	0.34505	-0.07893	-0.09211	0.0202	0.0527	0.0198
47	2045	710	-20	SLD 15	0.34505	0.07893	-0.09211	-0.0202	0.0527	-0.0198
47	2045	710	-20	SLD 16	0.34505	0.07893	-0.09211	-0.0202	0.0527	-0.0198
47	2045	710	-20	SLV 1	-0.22676	-0.20275	-0.08229	0.052	-0.0346	0.0508
47	2045	710	-20	SLV 2	-0.22676	-0.20275	-0.08229	0.052	-0.0346	0.0508
47	2045	710	-20	SLV 3	-0.22676	0.20275	-0.08229	-0.052	-0.0346	-0.0508
47	2045	710	-20	SLV 4	-0.22676	0.20275	-0.08229	-0.052	-0.0346	-0.0508
47	2045	710	-20	SLV 5	0.06138	-0.67594	-0.08724	0.1732	0.0094	0.1694
47	2045	710	-20	SLV 6	0.06138	-0.67594	-0.08724	0.1732	0.0094	0.1694
47	2045	710	-20	SLV 7	0.06138	0.67594	-0.08724	-0.1732	0.0094	-0.1694
47	2045	710	-20	SLV 8	0.06138	0.67594	-0.08724	-0.1732	0.0094	-0.1694
47	2045	710	-20	SLV 9	0.30833	-0.67596	-0.09148	0.1732	0.0471	0.1694
47	2045	710	-20	SLV 10	0.30833	-0.67596	-0.09148	0.1732	0.0471	0.1694
47	2045	710	-20	SLV 11	0.30833	0.67596	-0.09148	-0.1732	0.0471	-0.1694
47	2045	710	-20	SLV 12	0.30833	0.67596	-0.09148	-0.1732	0.0471	-0.1694
47	2045	710	-20	SLV 13	0.59643	-0.20279	-0.09642	0.052	0.0911	0.0508
47	2045	710	-20	SLV 14	0.59643	-0.20279	-0.09642	0.052	0.0911	0.0508
47	2045	710	-20	SLV 15	0.59643	0.20279	-0.09642	-0.052	0.0911	-0.0508
47	2045	710	-20	SLV 16	0.59643	0.20279	-0.09642	-0.052	0.0911	-0.0508
47	2045	710	-20	SLV FO 1	-0.22676	-0.20275	-0.08229	0.052	-0.0346	0.0508
47	2045	710	-20	SLV FO 2	-0.22676	-0.20275	-0.08229	0.052	-0.0346	0.0508
47	2045	710	-20	SLV FO 3	-0.22676	0.20275	-0.08229	-0.052	-0.0346	-0.0508
47	2045	710	-20	SLV FO 4	-0.22676	0.20275	-0.08229	-0.052	-0.0346	-0.0508
47	2045	710	-20	SLV FO 5	0.06138	-0.67594	-0.08724	0.1732	0.0094	0.1694
47	2045	710	-20	SLV FO 6	0.06138	-0.67594	-0.08724	0.1732	0.0094	0.1694
47	2045	710	-20	SLV FO 7	0.06138	0.67594	-0.08724	-0.1732	0.0094	-0.1694
47	2045	710	-20	SLV FO 8	0.06138	0.67594	-0.08724	-0.1732	0.0094	-0.1694
47	2045	710	-20	SLV FO 9	0.30833	-0.67596	-0.09148	0.1732	0.0471	0.1694
47	2045	710	-20	SLV FO 10	0.30833	-0.67596	-0.09148	0.1732	0.0471	0.1694
47	2045	710	-20	SLV FO 11	0.30833	0.67596	-0.09148	-0.1732	0.0471	-0.1694
47	2045	710	-20	SLV FO 12	0.30833	0.67596	-0.09148	-0.1732	0.0471	-0.1694
47	2045	710	-20	SLV FO 13	0.59643	-0.20279	-0.09642	0.052	0.0911	0.0508
47	2045	710	-20	SLV FO 14	0.59643	-0.20279	-0.09642	0.052	0.0911	0.0508
47	2045	710	-20	SLV FO 15	0.59643	0.20279	-0.09642	-0.052	0.0911	-0.0508
47	2045	710	-20	SLV FO 16	0.59643	0.20279	-0.09642	-0.052	0.0911	-0.0508
48	575	1210	-20	SLU 1	-0.10597	0	-0.08364	0	-0.0162	0
48	575	1210	-20	SLU 2	0.04571	0.09518	-0.06111	-0.0254	0.007	-0.035
48	575	1210	-20	SLU 3	0.18013	0.09514	-0.04703	-0.0254	0.0275	-0.035
48	575	1210	-20	SLU 4	0.11804	-0.00001	-0.06018	0	0.018	0
48	575	1210	-20	SLU 5	0.20905	0.05707	-0.04666	-0.0152	0.0319	-0.021
48	575	1210	-20	SLU 6	0.00142	0.09519	-0.06791	-0.0254	0.0002	-0.035
48	575	1210	-20	SLU 7	0.13584	0.09515	-0.05384	-0.0254	0.0207	-0.035
48	575	1210	-20	SLU 8	0.07376	-0.00001	-0.06699	0	0.0113	0

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
48	575	1210	-20	SLU 9	0.16476	0.05708	-0.05347	-0.0152	0.0252	-0.021
48	575	1210	-20	SLU 10	-0.19452	0	-0.09726	0	-0.0297	0
48	575	1210	-20	SLU 11	-0.10352	0.05713	-0.08374	-0.0152	-0.0158	-0.021
48	575	1210	-20	SLU 12	-0.06013	0	-0.08318	0	-0.0092	0
48	575	1210	-20	SLU 13	0.03088	0.05709	-0.06966	-0.0152	0.0047	-0.021
48	575	1210	-20	SLU 14	-0.14703	0	-0.09009	0	-0.0224	0
48	575	1210	-20	SLU 15	0.00464	0.09519	-0.06756	-0.0254	0.0007	-0.035
48	575	1210	-20	SLU 16	0.13906	0.09515	-0.05348	-0.0254	0.0212	-0.035
48	575	1210	-20	SLU 17	0.07698	-0.00001	-0.06663	0	0.0118	0
48	575	1210	-20	SLU 18	0.16798	0.05708	-0.05311	-0.0152	0.0256	-0.021
48	575	1210	-20	SLU 19	-0.03965	0.0952	-0.07437	-0.0254	-0.0061	-0.035
48	575	1210	-20	SLU 20	0.09477	0.09515	-0.06029	-0.0254	0.0145	-0.035
48	575	1210	-20	SLU 21	0.03269	-0.00001	-0.07344	0	0.005	0
48	575	1210	-20	SLU 22	0.12371	0.05708	-0.05992	-0.0152	0.0189	-0.021
48	575	1210	-20	SLU 23	-0.23558	0	-0.10371	0	-0.036	0
48	575	1210	-20	SLU 24	-0.14459	0.05713	-0.09019	-0.0152	-0.0221	-0.021
48	575	1210	-20	SLU 25	-0.1012	0	-0.08963	0	-0.0154	0
48	575	1210	-20	SLU 26	-0.01019	0.05711	-0.07611	-0.0152	-0.0016	-0.021
48	575	1210	-20	SLU 27	-0.13776	0	-0.10874	0	-0.021	0
48	575	1210	-20	SLU 28	0.01391	0.09518	-0.0862	-0.0254	0.0021	-0.035
48	575	1210	-20	SLU 29	0.14833	0.09515	-0.07213	-0.0254	0.0226	-0.035
48	575	1210	-20	SLU 30	0.08625	-0.00001	-0.08528	0	0.0132	0
48	575	1210	-20	SLU 31	0.17726	0.05707	-0.07176	-0.0152	0.0271	-0.021
48	575	1210	-20	SLU 32	-0.03037	0.09519	-0.09301	-0.0254	-0.0046	-0.035
48	575	1210	-20	SLU 33	0.10405	0.09515	-0.07893	-0.0254	0.0159	-0.035
48	575	1210	-20	SLU 34	0.04197	-0.00001	-0.09208	0	0.0064	0
48	575	1210	-20	SLU 35	0.13297	0.05708	-0.07856	-0.0152	0.0203	-0.021
48	575	1210	-20	SLU 36	-0.22631	0	-0.12235	0	-0.0345	0
48	575	1210	-20	SLU 37	-0.13532	0.05714	-0.10883	-0.0152	-0.0207	-0.021
48	575	1210	-20	SLU 38	-0.09193	0	-0.10827	0	-0.014	0
48	575	1210	-20	SLU 39	-0.00091	0.05709	-0.09475	-0.0152	-0.0001	-0.021
48	575	1210	-20	SLU 40	-0.17882	0	-0.11519	0	-0.0273	0
48	575	1210	-20	SLU 41	-0.02716	0.09519	-0.09265	-0.0254	-0.0041	-0.035
48	575	1210	-20	SLU 42	0.10726	0.09515	-0.07858	-0.0254	0.0164	-0.035
48	575	1210	-20	SLU 43	0.04518	-0.00001	-0.09173	0	0.0069	0
48	575	1210	-20	SLU 44	0.13619	0.05708	-0.07821	-0.0152	0.0208	-0.021
48	575	1210	-20	SLU 45	-0.07144	0.09521	-0.09946	-0.0254	-0.0109	-0.035
48	575	1210	-20	SLU 46	0.06298	0.09516	-0.08538	-0.0254	0.0096	-0.035
48	575	1210	-20	SLU 47	0.0009	-0.00001	-0.09853	0	0.0001	0
48	575	1210	-20	SLU 48	0.09191	0.05708	-0.08501	-0.0152	0.014	-0.021
48	575	1210	-20	SLU 49	-0.26737	-0.00001	-0.1288	0	-0.0408	0
48	575	1210	-20	SLU 50	-0.17638	0.05714	-0.11528	-0.0152	-0.0269	-0.021
48	575	1210	-20	SLU 51	-0.13297	0	-0.11472	0	-0.0203	0
48	575	1210	-20	SLU 52	-0.04198	0.05711	-0.1012	-0.0152	-0.0064	-0.021
48	575	1210	-20	SLE RA 1	-0.13334	0	-0.08794	0	-0.0204	0
48	575	1210	-20	SLE RA 2	-0.03223	0.06346	-0.07292	-0.0169	-0.0049	-0.0233
48	575	1210	-20	SLE RA 3	0.05738	0.06343	-0.06354	-0.0169	0.0088	-0.0233
48	575	1210	-20	SLE RA 4	0.01599	-0.00001	-0.0723	0	0.0024	0
48	575	1210	-20	SLE RA 5	0.07666	0.03805	-0.06329	-0.0101	0.0117	-0.014
48	575	1210	-20	SLE RA 6	-0.06175	0.06348	-0.07746	-0.0169	-0.0094	-0.0234
48	575	1210	-20	SLE RA 7	0.02785	0.06344	-0.06807	-0.0169	0.0043	-0.0233
48	575	1210	-20	SLE RA 8	-0.01353	-0.00001	-0.07684	0	-0.0021	0
48	575	1210	-20	SLE RA 9	0.04715	0.03805	-0.06783	-0.0101	0.0072	-0.014
48	575	1210	-20	SLE RA 10	-0.19237	0	-0.09702	0	-0.0294	0
48	575	1210	-20	SLE RA 11	-0.13171	0.03809	-0.08801	-0.0102	-0.0201	-0.014
48	575	1210	-20	SLE RA 12	-0.10278	0	-0.08764	0	-0.0157	0
48	575	1210	-20	SLE RA 13	-0.04212	0.03808	-0.07862	-0.0102	-0.0064	-0.014
48	575	1210	-20	SLE FR 1	-0.13334	0	-0.08794	0	-0.0204	0
48	575	1210	-20	SLE FR 2	-0.11312	0.0127	-0.08494	-0.0034	-0.0173	-0.0047
48	575	1210	-20	SLE FR 3	-0.10347	0	-0.08482	0	-0.0158	0
48	575	1210	-20	SLE FR 4	-0.14515	0	-0.08976	0	-0.0222	0
48	575	1210	-20	SLE QP 1	-0.13334	0	-0.08794	0	-0.0204	0
48	575	1210	-20	SLD 1	-0.2377	-0.08	-0.09072	0.0213	-0.0363	0.0345
48	575	1210	-20	SLD 2	-0.2377	-0.08	-0.09072	0.0213	-0.0363	0.0345
48	575	1210	-20	SLD 3	-0.20993	0.07998	-0.09034	-0.0213	-0.032	-0.0346
48	575	1210	-20	SLD 4	-0.20993	0.07998	-0.09034	-0.0213	-0.032	-0.0346
48	575	1210	-20	SLD 5	-0.20679	-0.26667	-0.08936	0.0712	-0.0316	0.1151
48	575	1210	-20	SLD 6	-0.20679	-0.26667	-0.08936	0.0712	-0.0316	0.1151
48	575	1210	-20	SLD 7	-0.1142	0.26659	-0.08808	-0.0711	-0.0174	-0.1153
48	575	1210	-20	SLD 8	-0.1142	0.26659	-0.08808	-0.0711	-0.0174	-0.1153
48	575	1210	-20	SLD 9	-0.15251	-0.26667	-0.08781	0.0712	-0.0233	0.1151
48	575	1210	-20	SLD 10	-0.15251	-0.26667	-0.08781	0.0712	-0.0233	0.1151
48	575	1210	-20	SLD 11	-0.05992	0.26659	-0.08653	-0.0711	-0.0091	-0.1153
48	575	1210	-20	SLD 12	-0.05992	0.26659	-0.08653	-0.0711	-0.0091	-0.1153
48	575	1210	-20	SLD 13	-0.05676	-0.08002	-0.08555	0.0214	-0.0087	0.0346
48	575	1210	-20	SLD 14	-0.05676	-0.08002	-0.08555	0.0214	-0.0087	0.0346
48	575	1210	-20	SLD 15	-0.029	0.07999	-0.08517	-0.0213	-0.0044	-0.0346
48	575	1210	-20	SLD 16	-0.029	0.07999	-0.08517	-0.0213	-0.0044	-0.0346
48	575	1210	-20	SLV 1	-0.40143	-0.2055	-0.09508	0.0548	-0.0613	0.0887
48	575	1210	-20	SLV 2	-0.40143	-0.2055	-0.09508	0.0548	-0.0613	0.0887
48	575	1210	-20	SLV 3	-0.33007	0.20545	-0.0941	-0.0548	-0.0504	-0.0888
48	575	1210	-20	SLV 4	-0.33007	0.20545	-0.0941	-0.0548	-0.0504	-0.0888
48	575	1210	-20	SLV 5	-0.32202	-0.68502	-0.09158	0.1828	-0.0492	0.2958
48	575	1210	-20	SLV 6	-0.32202	-0.68502	-0.09158	0.1828	-0.0492	0.2958
48	575	1210	-20	SLV 7	-0.08414	0.68481	-0.0883	-0.1827	-0.0128	-0.2961
48	575	1210	-20	SLV 8	-0.08414	0.68481	-0.0883	-0.1827	-0.0128	-0.2961
48	575	1210	-20	SLV 9	-0.18258	-0.68503	-0.08759	0.1828	-0.0279	0.2958
48	575	1210	-20	SLV 10	-0.18258	-0.68503	-0.08759	0.1828	-0.0279	0.2958
48	575	1210	-20	SLV 11	0.0553	0.68481	-0.08431	-0.1827	0.0084	-0.2961
48	575	1210	-20	SLV 12	0.0553	0.68481	-0.08431	-0.1827	0.0084	-0.2961
48	575	1210	-20	SLV 13	0.06338	-0.20553	-0.08179	0.0548	0.0097	0.0888
48	575	1210	-20	SLV 14	0.06338	-0.20553	-0.08179	0.0548	0.0097	0.0888
48	575	1210	-20	SLV 15	0.13472	0.20546	-0.08081	-0.0548	0.0206	-0.0888
48	575	1210	-20	SLV 16	0.13472	0.20546	-0.08081	-0.0548	0.0206	-0.0888
48	575	1210	-20	SLV FO 1	-0.40143	-0.2055	-0.09508	0.0548	-0.0613	0.0887
48	575	1210	-20	SLV FO 2	-0.40143	-0.2055	-0.09508	0.0548	-0.0613	0.0887
48	575	1210	-20	SLV FO 3	-0.33007	0.20545	-0.0941	-0.0548	-0.0504	-0.0888
48	575	1210	-20	SLV FO 4	-0.33007	0.20545	-0.0941	-0.0548	-0.0504	-0.0888
48	575	1210	-20	SLV FO 5	-0.32202	-0.68502	-0.09158	0.1828	-0.0492	0.2958
48	575	1210	-20	SLV FO 6	-0.32202	-0.68502	-0.09158	0.1828	-0.0492	0.2958

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
48	575	1210	-20	SLV FO 7	-0.08414	0.68481	-0.0883	-0.1827	-0.0128	-0.2961
48	575	1210	-20	SLV FO 8	-0.08414	0.68481	-0.0883	-0.1827	-0.0128	-0.2961
48	575	1210	-20	SLV FO 9	-0.18258	-0.68503	-0.08759	0.1828	-0.0279	0.2958
48	575	1210	-20	SLV FO 10	-0.18258	-0.68503	-0.08759	0.1828	-0.0279	0.2958
48	575	1210	-20	SLV FO 11	0.0553	0.68481	-0.08431	-0.1827	0.0084	-0.2961
48	575	1210	-20	SLV FO 12	0.0553	0.68481	-0.08431	-0.1827	0.0084	-0.2961
48	575	1210	-20	SLV FO 13	0.06338	-0.20553	-0.08179	0.0548	0.0097	0.0888
48	575	1210	-20	SLV FO 14	0.06338	-0.20553	-0.08179	0.0548	0.0097	0.0888
48	575	1210	-20	SLV FO 15	0.13472	0.20546	-0.08081	-0.0548	0.0206	-0.0888
48	575	1210	-20	SLV FO 16	0.13472	0.20546	-0.08081	-0.0548	0.0206	-0.0888
49	2045	1210	-20	SLU 1	0.10061	0	-0.07861	0	0.0154	0
49	2045	1210	-20	SLU 2	-0.0006	0.11947	-0.06162	-0.0306	-0.0001	-0.0209
49	2045	1210	-20	SLU 3	-0.02224	0.11948	-0.05209	-0.0306	-0.0034	-0.0209
49	2045	1210	-20	SLU 4	0.06451	-0.00003	-0.06273	0	0.0098	0
49	2045	1210	-20	SLU 5	0.00379	0.07169	-0.05253	-0.0184	0.0006	-0.0125
49	2045	1210	-20	SLU 6	0.03557	0.11946	-0.06691	-0.0306	0.0054	-0.0209
49	2045	1210	-20	SLU 7	0.01393	0.11948	-0.05738	-0.0306	0.0021	-0.0209
49	2045	1210	-20	SLU 8	0.10069	-0.00002	-0.06801	0	0.0154	0
49	2045	1210	-20	SLU 9	0.03997	0.07169	-0.05782	-0.0184	0.0061	-0.0125
49	2045	1210	-20	SLU 10	0.17299	-0.00002	-0.08918	0	0.0264	0
49	2045	1210	-20	SLU 11	0.11224	0.07166	-0.07899	-0.0184	0.0171	-0.0126
49	2045	1210	-20	SLU 12	0.15129	0	-0.07965	0	0.0231	0
49	2045	1210	-20	SLU 13	0.09058	0.07169	-0.06946	-0.0184	0.0138	-0.0126
49	2045	1210	-20	SLU 14	0.13394	-0.00001	-0.08355	0	0.0204	0
49	2045	1210	-20	SLU 15	0.03272	0.11946	-0.06656	-0.0306	0.005	-0.0209
49	2045	1210	-20	SLU 16	0.01108	0.11948	-0.05703	-0.0306	0.0017	-0.0209
49	2045	1210	-20	SLU 17	0.09784	-0.00002	-0.06767	0	0.0149	0
49	2045	1210	-20	SLU 18	0.03711	0.07169	-0.05748	-0.0184	0.0057	-0.0125
49	2045	1210	-20	SLU 19	0.06889	0.11945	-0.07185	-0.0306	0.0105	-0.0209
49	2045	1210	-20	SLU 20	0.04725	0.11948	-0.06232	-0.0306	0.0072	-0.0209
49	2045	1210	-20	SLU 21	0.13401	-0.00002	-0.07296	0	0.0205	0
49	2045	1210	-20	SLU 22	0.07331	0.07169	-0.06276	-0.0184	0.0112	-0.0126
49	2045	1210	-20	SLU 23	0.20632	-0.00003	-0.09413	0	0.0315	0
49	2045	1210	-20	SLU 24	0.14557	0.07167	-0.08393	-0.0184	0.0222	-0.0126
49	2045	1210	-20	SLU 25	0.18462	0	-0.0846	0	0.0282	0
49	2045	1210	-20	SLU 26	0.1239	0.07167	-0.0744	-0.0184	0.0189	-0.0126
49	2045	1210	-20	SLU 27	0.13079	-0.00001	-0.10219	0	0.02	0
49	2045	1210	-20	SLU 28	0.02957	0.11947	-0.0852	-0.0306	0.0045	-0.0209
49	2045	1210	-20	SLU 29	0.00794	0.11948	-0.07567	-0.0306	0.0012	-0.0209
49	2045	1210	-20	SLU 30	0.09469	-0.00003	-0.08631	0	0.0145	0
49	2045	1210	-20	SLU 31	0.03397	0.07169	-0.07612	-0.0184	0.0052	-0.0125
49	2045	1210	-20	SLU 32	0.06575	0.11945	-0.09049	-0.0306	0.01	-0.0209
49	2045	1210	-20	SLU 33	0.04411	0.11948	-0.08096	-0.0306	0.0067	-0.0209
49	2045	1210	-20	SLU 34	0.13087	-0.00002	-0.0916	0	0.02	0
49	2045	1210	-20	SLU 35	0.07014	0.07169	-0.0814	-0.0184	0.0107	-0.0125
49	2045	1210	-20	SLU 36	0.20317	-0.00002	-0.11277	0	0.031	0
49	2045	1210	-20	SLU 37	0.14241	0.07166	-0.10257	-0.0184	0.0217	-0.0126
49	2045	1210	-20	SLU 38	0.18147	0	-0.10324	0	0.0277	0
49	2045	1210	-20	SLU 39	0.12075	0.07169	-0.09304	-0.0184	0.0184	-0.0126
49	2045	1210	-20	SLU 40	0.16413	-0.00001	-0.10713	0	0.0251	0
49	2045	1210	-20	SLU 41	0.06289	0.11945	-0.09014	-0.0306	0.0096	-0.0209
49	2045	1210	-20	SLU 42	0.04126	0.11948	-0.08062	-0.0306	0.0063	-0.0209
49	2045	1210	-20	SLU 43	0.12801	-0.00002	-0.09125	0	0.0195	0
49	2045	1210	-20	SLU 44	0.06729	0.07169	-0.08106	-0.0184	0.0103	-0.0125
49	2045	1210	-20	SLU 45	0.09907	0.11945	-0.09543	-0.0306	0.0151	-0.0209
49	2045	1210	-20	SLU 46	0.07743	0.11948	-0.0859	-0.0306	0.0118	-0.0209
49	2045	1210	-20	SLU 47	0.16419	-0.00002	-0.09654	0	0.0251	0
49	2045	1210	-20	SLU 48	0.10348	0.07169	-0.08635	-0.0184	0.0158	-0.0126
49	2045	1210	-20	SLU 49	0.23651	-0.00003	-0.11771	0	0.0361	0
49	2045	1210	-20	SLU 50	0.17575	0.07166	-0.10751	-0.0184	0.0268	-0.0126
49	2045	1210	-20	SLU 51	0.21483	0	-0.10818	0	0.0328	0
49	2045	1210	-20	SLU 52	0.15408	0.07167	-0.09798	-0.0184	0.0235	-0.0126
49	2045	1210	-20	SLE RA 1	0.12283	-0.00001	-0.0819	0	0.0188	0
49	2045	1210	-20	SLE RA 2	0.05534	0.07963	-0.07058	-0.0204	0.0084	-0.014
49	2045	1210	-20	SLE RA 3	0.04091	0.07965	-0.06423	-0.0204	0.0062	-0.014
49	2045	1210	-20	SLE RA 4	0.09875	-0.00002	-0.07132	0	0.0151	0
49	2045	1210	-20	SLE RA 5	0.05827	0.04779	-0.06452	-0.0122	0.0089	-0.0084
49	2045	1210	-20	SLE RA 6	0.07946	0.07963	-0.0741	-0.0204	0.0121	-0.014
49	2045	1210	-20	SLE RA 7	0.06503	0.07965	-0.06775	-0.0204	0.0099	-0.014
49	2045	1210	-20	SLE RA 8	0.12287	-0.00001	-0.07484	0	0.0188	0
49	2045	1210	-20	SLE RA 9	0.0824	0.04779	-0.06804	-0.0122	0.0126	-0.0084
49	2045	1210	-20	SLE RA 10	0.17108	-0.00002	-0.08895	0	0.0261	0
49	2045	1210	-20	SLE RA 11	0.13058	0.04778	-0.08216	-0.0122	0.0199	-0.0084
49	2045	1210	-20	SLE RA 12	0.15664	0	-0.0826	0	0.0239	0
49	2045	1210	-20	SLE RA 13	0.11613	0.04778	-0.0758	-0.0122	0.0177	-0.0084
49	2045	1210	-20	SLE FR 1	0.12283	-0.00001	-0.0819	0	0.0188	0
49	2045	1210	-20	SLE FR 2	0.10933	0.01593	-0.07964	-0.0041	0.0167	-0.0028
49	2045	1210	-20	SLE FR 3	0.11802	0	-0.07979	0	0.018	0
49	2045	1210	-20	SLE FR 4	0.13248	-0.00001	-0.08331	0	0.0202	0
49	2045	1210	-20	SLE QP 1	0.12283	-0.00001	-0.0819	0	0.0188	0
49	2045	1210	-20	SLD 1	-0.05076	-0.07902	-0.07877	0.0202	-0.0077	0.0198
49	2045	1210	-20	SLD 2	-0.05076	-0.07902	-0.07877	0.0202	-0.0077	0.0198
49	2045	1210	-20	SLD 3	0.0014	0.07886	-0.07981	-0.0202	0.0002	-0.0198
49	2045	1210	-20	SLD 4	0.0014	0.07886	-0.07981	-0.0202	0.0002	-0.0198
49	2045	1210	-20	SLD 5	-0.00841	-0.26336	-0.07938	0.0675	-0.0013	0.0661
49	2045	1210	-20	SLD 6	-0.00841	-0.26336	-0.07938	0.0675	-0.0013	0.0661
49	2045	1210	-20	SLD 7	0.16549	0.26286	-0.08286	-0.0674	0.0253	-0.0658
49	2045	1210	-20	SLD 8	0.16549	0.26286	-0.08286	-0.0674	0.0253	-0.0658
49	2045	1210	-20	SLD 9	0.08009	-0.26336	-0.08095	0.0675	0.0122	0.0661
49	2045	1210	-20	SLD 10	0.08009	-0.26336	-0.08095	0.0675	0.0122	0.0661
49	2045	1210	-20	SLD 11	0.25399	0.26285	-0.08443	-0.0674	0.0388	-0.0658
49	2045	1210	-20	SLD 12	0.25399	0.26285	-0.08443	-0.0674	0.0388	-0.0658
49	2045	1210	-20	SLD 13	0.24423	-0.07899	-0.084	0.0202	0.0373	0.0198
49	2045	1210	-20	SLD 14	0.24423	-0.07899	-0.084	0.0202	0.0373	0.0198
49	2045	1210	-20	SLD 15	0.29637	0.07884	-0.08504	-0.0202	0.0452	-0.0197
49	2045	1210	-20	SLD 16	0.29637	0.07884	-0.08504	-0.0202	0.0452	-0.0197
49	2045	1210	-20	SLV 1	-0.32312	-0.20299	-0.07385	0.052	-0.0493	0.051
49	2045	1210	-20	SLV 2	-0.32312	-0.20299	-0.07385	0.052	-0.0493	0.051
49	2045	1210	-20	SLV 3	-0.18908	0.20259	-0.07653	-0.0519	-0.0289	-0.0508
49	2045	1210	-20	SLV 4	-0.18908	0.20259	-0.07653	-0.0519	-0.0289	-0.0508
49	2045	1210	-20	SLV 5	-0.21432	-0.67656	-0.07542	0.1734	-0.0327	0.1699
49	2045	1210	-20	SLV 6	-0.21432	-0.67656	-0.07542	0.1734	-0.0327	0.1699
49	2045	1210	-20	SLV 7	0.23248	0.67526	-0.08436	-0.173	0.0355	-0.1691

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
49	2045	1210	-20	SLV 8	0.23248	0.67526	-0.08436	-0.173	0.0355	-0.1691
49	2045	1210	-20	SLV 9	0.01302	-0.67655	-0.07945	0.1734	0.002	0.1699
49	2045	1210	-20	SLV 10	0.01302	-0.67655	-0.07945	0.1734	0.002	0.1699
49	2045	1210	-20	SLV 11	0.45981	0.67525	-0.08839	-0.173	0.0702	-0.1691
49	2045	1210	-20	SLV 12	0.45981	0.67525	-0.08839	-0.173	0.0702	-0.1691
49	2045	1210	-20	SLV 13	0.43469	-0.20294	-0.08728	0.052	0.0664	0.051
49	2045	1210	-20	SLV 14	0.43469	-0.20294	-0.08728	0.052	0.0664	0.051
49	2045	1210	-20	SLV 15	0.56868	0.20255	-0.08996	-0.0519	0.0868	-0.0507
49	2045	1210	-20	SLV 16	0.56868	0.20255	-0.08996	-0.0519	0.0868	-0.0507
49	2045	1210	-20	SLV FO 1	-0.32312	-0.20299	-0.07385	0.052	-0.0493	0.051
49	2045	1210	-20	SLV FO 2	-0.32312	-0.20299	-0.07385	0.052	-0.0493	0.051
49	2045	1210	-20	SLV FO 3	-0.18908	0.20259	-0.07653	-0.0519	-0.0289	-0.0508
49	2045	1210	-20	SLV FO 4	-0.18908	0.20259	-0.07653	-0.0519	-0.0289	-0.0508
49	2045	1210	-20	SLV FO 5	-0.21432	-0.67656	-0.07542	0.1734	-0.0327	0.1699
49	2045	1210	-20	SLV FO 6	-0.21432	-0.67656	-0.07542	0.1734	-0.0327	0.1699
49	2045	1210	-20	SLV FO 7	0.23248	0.67526	-0.08436	-0.173	0.0355	-0.1691
49	2045	1210	-20	SLV FO 8	0.23248	0.67526	-0.08436	-0.173	0.0355	-0.1691
49	2045	1210	-20	SLV FO 9	0.01302	-0.67655	-0.07945	0.1734	0.002	0.1699
49	2045	1210	-20	SLV FO 10	0.01302	-0.67655	-0.07945	0.1734	0.002	0.1699
49	2045	1210	-20	SLV FO 11	0.45981	0.67525	-0.08839	-0.173	0.0702	-0.1691
49	2045	1210	-20	SLV FO 12	0.45981	0.67525	-0.08839	-0.173	0.0702	-0.1691
49	2045	1210	-20	SLV FO 13	0.43469	-0.20294	-0.08728	0.052	0.0664	0.051
49	2045	1210	-20	SLV FO 14	0.43469	-0.20294	-0.08728	0.052	0.0664	0.051
49	2045	1210	-20	SLV FO 15	0.56868	0.20255	-0.08996	-0.0519	0.0868	-0.0507
49	2045	1210	-20	SLV FO 16	0.56868	0.20255	-0.08996	-0.0519	0.0868	-0.0507
50	2245	210	345	SLU 1	-0.10878	0.00002	0.03602	0	-0.0348	0
50	2245	210	345	SLU 2	0.00112	0.79309	-0.08035	-0.1247	0.0057	-0.0004
50	2245	210	345	SLU 3	0.16679	0.79318	-0.17521	-0.1247	0.0373	-0.0003
50	2245	210	345	SLU 4	0.16744	0.00001	-0.1221	0	0.0179	-0.0001
50	2245	210	345	SLU 5	0.2333	0.47595	-0.1919	-0.0748	0.0422	-0.0002
50	2245	210	345	SLU 6	-0.03907	0.79302	-0.04331	-0.1247	-0.0071	-0.0004
50	2245	210	345	SLU 7	0.12655	0.79318	-0.13815	-0.1247	0.0245	-0.0004
50	2245	210	345	SLU 8	0.1272	0.00001	-0.08503	0	0.0051	-0.0001
50	2245	210	345	SLU 9	0.19309	0.4759	-0.15485	-0.0748	0.0294	-0.0002
50	2245	210	345	SLU 10	-0.18923	0.00008	0.11013	0	-0.0604	0
50	2245	210	345	SLU 11	-0.12323	0.47576	0.04029	-0.0748	-0.0361	-0.0002
50	2245	210	345	SLU 12	-0.02355	0	0.01527	0	-0.0288	0
50	2245	210	345	SLU 13	0.04238	0.47589	-0.05454	-0.0748	-0.0045	-0.0002
50	2245	210	345	SLU 14	-0.14729	0.00005	0.07089	0	-0.0468	0
50	2245	210	345	SLU 15	-0.03736	0.79302	-0.04549	-0.1247	-0.0063	-0.0004
50	2245	210	345	SLU 16	0.12826	0.79318	-0.14033	-0.1247	0.0253	-0.0004
50	2245	210	345	SLU 17	0.12891	0.00001	-0.08721	0	0.0058	-0.0001
50	2245	210	345	SLU 18	0.1948	0.4759	-0.15703	-0.0748	0.0301	-0.0002
50	2245	210	345	SLU 19	-0.07759	0.793	-0.00843	-0.1247	-0.0191	-0.0004
50	2245	210	345	SLU 20	0.08802	0.79317	-0.10327	-0.1247	0.0125	-0.0004
50	2245	210	345	SLU 21	0.08867	0.00001	-0.05015	0	-0.007	0
50	2245	210	345	SLU 22	0.15456	0.47594	-0.11997	-0.0748	0.0173	-0.0002
50	2245	210	345	SLU 23	-0.22774	0.0001	0.14501	0	-0.0724	0
50	2245	210	345	SLU 24	-0.16174	0.47577	0.07517	-0.0748	-0.0481	-0.0002
50	2245	210	345	SLU 25	-0.06208	0	0.05015	0	-0.0408	0
50	2245	210	345	SLU 26	0.0039	0.47583	-0.01968	-0.0748	-0.0165	-0.0002
50	2245	210	345	SLU 27	-0.14142	0.00002	0.04682	0	-0.0452	0
50	2245	210	345	SLU 28	-0.03152	0.79308	-0.06955	-0.1247	-0.0047	-0.0004
50	2245	210	345	SLU 29	0.13415	0.79318	-0.1644	-0.1247	0.0269	-0.0003
50	2245	210	345	SLU 30	0.13479	0.00001	-0.11129	0	0.0074	-0.0001
50	2245	210	345	SLU 31	0.20065	0.47596	-0.18109	-0.0748	0.0317	-0.0002
50	2245	210	345	SLU 32	-0.0717	0.79301	-0.0325	-0.1247	-0.0175	-0.0004
50	2245	210	345	SLU 33	0.09391	0.79317	-0.12734	-0.1247	0.0141	-0.0004
50	2245	210	345	SLU 34	0.09455	0.00001	-0.07423	0	-0.0054	-0.0001
50	2245	210	345	SLU 35	0.16044	0.4759	-0.14404	-0.0748	0.0189	-0.0002
50	2245	210	345	SLU 36	-0.22186	0.00008	0.12093	0	-0.0708	0
50	2245	210	345	SLU 37	-0.15586	0.47575	0.0511	-0.0748	-0.0465	-0.0002
50	2245	210	345	SLU 38	-0.05619	0	0.02608	0	-0.0392	0
50	2245	210	345	SLU 39	0.00974	0.47589	-0.04374	-0.0748	-0.0149	-0.0002
50	2245	210	345	SLU 40	-0.17993	0.00005	0.0817	0	-0.0573	0
50	2245	210	345	SLU 41	-0.06999	0.79301	-0.03468	-0.1247	-0.0167	-0.0004
50	2245	210	345	SLU 42	0.09562	0.79318	-0.12952	-0.1247	0.0148	-0.0004
50	2245	210	345	SLU 43	0.09626	0.00001	-0.07641	0	-0.0046	-0.0001
50	2245	210	345	SLU 44	0.16216	0.4759	-0.14622	-0.0748	0.0197	-0.0002
50	2245	210	345	SLU 45	-0.11019	0.79297	0.00237	-0.1246	-0.0295	-0.0004
50	2245	210	345	SLU 46	0.05539	0.79315	-0.09246	-0.1247	0.002	-0.0004
50	2245	210	345	SLU 47	0.05602	0.00001	-0.03935	0	-0.0174	0
50	2245	210	345	SLU 48	0.12192	0.47593	-0.10916	-0.0748	0.0069	-0.0002
50	2245	210	345	SLU 49	-0.26037	0.00011	0.15581	0	-0.0829	0
50	2245	210	345	SLU 50	-0.19438	0.47576	0.08598	-0.0748	-0.0586	-0.0002
50	2245	210	345	SLU 51	-0.09466	0.00001	0.06095	0	-0.0513	0
50	2245	210	345	SLU 52	-0.02873	0.47581	-0.00887	-0.0748	-0.027	-0.0002
50	2245	210	345	SLE RA 1	-0.13446	0.00004	0.05927	0	-0.0428	0
50	2245	210	345	SLE RA 2	-0.06117	0.52867	-0.01832	-0.0831	-0.0158	-0.0002
50	2245	210	345	SLE RA 3	0.04924	0.52878	-0.08154	-0.0831	0.0053	-0.0002
50	2245	210	345	SLE RA 4	0.04967	0.00001	-0.04614	0	-0.0077	0
50	2245	210	345	SLE RA 5	0.0936	0.31727	-0.09268	-0.0499	0.0085	-0.0001
50	2245	210	345	SLE RA 6	-0.08795	0.52862	0.00638	-0.0831	-0.0243	-0.0003
50	2245	210	345	SLE RA 7	0.02244	0.52874	-0.05684	-0.0831	-0.0033	-0.0002
50	2245	210	345	SLE RA 8	0.02284	0	-0.02143	0	-0.0162	0
50	2245	210	345	SLE RA 9	0.06677	0.31729	-0.06797	-0.0499	0	-0.0001
50	2245	210	345	SLE RA 10	-0.18809	0.00007	0.10868	0	-0.0599	0
50	2245	210	345	SLE RA 11	-0.14409	0.31717	0.06212	-0.0499	-0.0437	-0.0002
50	2245	210	345	SLE RA 12	-0.07761	0.00001	0.04543	0	-0.0388	0
50	2245	210	345	SLE RA 13	-0.03366	0.3172	-0.00111	-0.0499	-0.0226	-0.0001
50	2245	210	345	SLE FR 1	-0.13446	0.00004	0.05927	0	-0.0428	0
50	2245	210	345	SLE FR 2	-0.11979	0.10573	0.04375	-0.0166	-0.0374	-0.0001
50	2245	210	345	SLE FR 3	-0.09763	0.00002	0.03819	0	-0.0358	0
50	2245	210	345	SLE FR 4	-0.14518	0.00004	0.06915	0	-0.0462	0
50	2245	210	345	SLE QP 1	-0.13446	0.00004	0.05927	0	-0.0428	0
50	2245	210	345	SLD 1	-0.34172	-0.50366	0.11027	0.0956	-0.0577	0.0035
50	2245	210	345	SLD 2	-0.34172	-0.50366	0.11027	0.0956	-0.0577	0.0035
50	2245	210	345	SLD 3	-0.42648	0.50406	0.12991	-0.0958	-0.0633	-0.0038
50	2245	210	345	SLD 4	-0.42648	0.50406	0.12991	-0.0958	-0.0633	-0.0038
50	2245	210	345	SLD 5	-0.06823	-1.67908	0.04481	0.3185	-0.0387	0.0116

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
50	2245	210	345	SLD 6	-0.06823	-1.67908	0.04481	0.3185	-0.0387	0.0116
50	2245	210	345	SLD 7	-0.35072	1.68012	0.11028	-0.3192	-0.0576	-0.0127
50	2245	210	345	SLD 8	-0.35072	1.68012	0.11028	-0.3192	-0.0576	-0.0127
50	2245	210	345	SLD 9	0.08153	-1.6791	0.00833	0.3185	-0.0281	0.0116
50	2245	210	345	SLD 10	0.08153	-1.6791	0.00833	0.3185	-0.0281	0.0116
50	2245	210	345	SLD 11	-0.20096	1.68009	0.07379	-0.3192	-0.0469	-0.0127
50	2245	210	345	SLD 12	-0.20096	1.68009	0.07379	-0.3192	-0.0469	-0.0127
50	2245	210	345	SLD 13	0.15742	-0.50369	-0.01134	0.0955	-0.0223	0.0035
50	2245	210	345	SLD 14	0.15742	-0.50369	-0.01134	0.0955	-0.0223	0.0035
50	2245	210	345	SLD 15	0.07274	0.50395	0.00828	-0.0957	-0.0279	-0.0038
50	2245	210	345	SLD 16	0.07274	0.50395	0.00828	-0.0957	-0.0279	-0.0038
50	2245	210	345	SLV 1	-0.66688	-1.29393	0.19029	0.2455	-0.081	0.009
50	2245	210	345	SLV 2	-0.66688	-1.29393	0.19029	0.2455	-0.081	0.009
50	2245	210	345	SLV 3	-0.88464	1.29488	0.24075	-0.246	-0.0956	-0.0098
50	2245	210	345	SLV 4	-0.88464	1.29488	0.24075	-0.246	-0.0956	-0.0098
50	2245	210	345	SLV 5	0.03577	-4.31351	0.02212	0.8182	-0.0322	0.0299
50	2245	210	345	SLV 6	0.03577	-4.31351	0.02212	0.8182	-0.0322	0.0299
50	2245	210	345	SLV 7	-0.69002	4.31611	0.19031	-0.82	-0.0807	-0.0325
50	2245	210	345	SLV 8	-0.69002	4.31611	0.19031	-0.82	-0.0807	-0.0325
50	2245	210	345	SLV 9	0.42046	-4.31355	-0.07161	0.8182	-0.0049	0.0299
50	2245	210	345	SLV 10	0.42046	-4.31355	-0.07161	0.8182	-0.0049	0.0299
50	2245	210	345	SLV 11	-0.30529	4.31605	0.09657	-0.82	-0.0534	-0.0325
50	2245	210	345	SLV 12	-0.30529	4.31605	0.09657	-0.82	-0.0534	-0.0325
50	2245	210	345	SLV 13	0.61544	-1.29407	-0.12214	0.2454	0.0099	0.0089
50	2245	210	345	SLV 14	0.61544	-1.29407	-0.12214	0.2454	0.0099	0.0089
50	2245	210	345	SLV 15	0.3978	1.29469	-0.07171	-0.246	-0.0046	-0.0097
50	2245	210	345	SLV 16	0.3978	1.29469	-0.07171	-0.246	-0.0046	-0.0097
50	2245	210	345	SLV FO 1	-0.66688	-1.29393	0.19029	0.2455	-0.081	0.009
50	2245	210	345	SLV FO 2	-0.66688	-1.29393	0.19029	0.2455	-0.081	0.009
50	2245	210	345	SLV FO 3	-0.88464	1.29488	0.24075	-0.246	-0.0956	-0.0098
50	2245	210	345	SLV FO 4	-0.88464	1.29488	0.24075	-0.246	-0.0956	-0.0098
50	2245	210	345	SLV FO 5	0.03577	-4.31351	0.02212	0.8182	-0.0322	0.0299
50	2245	210	345	SLV FO 6	0.03577	-4.31351	0.02212	0.8182	-0.0322	0.0299
50	2245	210	345	SLV FO 7	-0.69002	4.31611	0.19031	-0.82	-0.0807	-0.0325
50	2245	210	345	SLV FO 8	-0.69002	4.31611	0.19031	-0.82	-0.0807	-0.0325
50	2245	210	345	SLV FO 9	0.42046	-4.31355	-0.07161	0.8182	-0.0049	0.0299
50	2245	210	345	SLV FO 10	0.42046	-4.31355	-0.07161	0.8182	-0.0049	0.0299
50	2245	210	345	SLV FO 11	-0.30529	4.31605	0.09657	-0.82	-0.0534	-0.0325
50	2245	210	345	SLV FO 12	-0.30529	4.31605	0.09657	-0.82	-0.0534	-0.0325
50	2245	210	345	SLV FO 13	0.61544	-1.29407	-0.12214	0.2454	0.0099	0.0089
50	2245	210	345	SLV FO 14	0.61544	-1.29407	-0.12214	0.2454	0.0099	0.0089
50	2245	210	345	SLV FO 15	0.3978	1.29469	-0.07171	-0.246	-0.0046	-0.0097
50	2245	210	345	SLV FO 16	0.3978	1.29469	-0.07171	-0.246	-0.0046	-0.0097
51	2245	710	345	SLU 1	-0.11395	0	0.04717	0	-0.0393	0
51	2245	710	345	SLU 2	0.04125	0.79302	-0.17004	-0.1449	0.0373	0.0027
51	2245	710	345	SLU 3	0.23344	0.79321	-0.32566	-0.145	0.0906	0.0027
51	2245	710	345	SLU 4	0.20628	0	-0.21219	0	0.0496	0
51	2245	710	345	SLU 5	0.29951	0.47606	-0.34254	-0.087	0.0955	0.0016
51	2245	710	345	SLU 6	-0.00502	0.79293	-0.10397	-0.1449	0.014	0.0027
51	2245	710	345	SLU 7	0.18722	0.79318	-0.25961	-0.145	0.0673	0.0027
51	2245	710	345	SLU 8	0.16007	0	-0.14613	0	0.0263	0
51	2245	710	345	SLU 9	0.25326	0.47598	-0.27648	-0.087	0.0722	0.0016
51	2245	710	345	SLU 10	-0.2065	0	0.17931	0	-0.0858	0
51	2245	710	345	SLU 11	-0.11338	0.47566	0.04898	-0.0869	-0.0399	0.0016
51	2245	710	345	SLU 12	-0.01421	0	0.02366	0	-0.0325	0
51	2245	710	345	SLU 13	0.07891	0.47589	-0.10667	-0.087	0.0134	0.0016
51	2245	710	345	SLU 14	-0.15833	0	0.10924	0	-0.0611	0
51	2245	710	345	SLU 15	-0.00313	0.79293	-0.10797	-0.1449	0.0154	0.0027
51	2245	710	345	SLU 16	0.18911	0.79318	-0.26361	-0.145	0.0687	0.0027
51	2245	710	345	SLU 17	0.16195	0	-0.15013	0	0.0277	0
51	2245	710	345	SLU 18	0.25515	0.47598	-0.28047	-0.087	0.0736	0.0016
51	2245	710	345	SLU 19	-0.04936	0.79289	-0.04191	-0.1449	-0.0079	0.0027
51	2245	710	345	SLU 20	0.14289	0.79315	-0.19755	-0.145	0.0454	0.0027
51	2245	710	345	SLU 21	0.11574	0	-0.08408	0	0.0044	0
51	2245	710	345	SLU 22	0.2089	0.47599	-0.21441	-0.087	0.0504	0.0016
51	2245	710	345	SLU 23	-0.25088	0	0.24138	0	-0.1077	0
51	2245	710	345	SLU 24	-0.15775	0.47564	0.11105	-0.0869	-0.0618	0.0017
51	2245	710	345	SLU 25	-0.05854	0	0.08571	0	-0.0544	0
51	2245	710	345	SLU 26	0.03453	0.47579	-0.0446	-0.087	-0.0085	0.0016
51	2245	710	345	SLU 27	-0.14814	0	0.06132	0	-0.051	0
51	2245	710	345	SLU 28	0.00708	0.79301	-0.15589	-0.1449	0.0255	0.0027
51	2245	710	345	SLU 29	0.19928	0.7932	-0.31152	-0.145	0.0788	0.0027
51	2245	710	345	SLU 30	0.17212	0	-0.19804	0	0.0378	0
51	2245	710	345	SLU 31	0.26535	0.47606	-0.32839	-0.087	0.0837	0.0016
51	2245	710	345	SLU 32	-0.03919	0.79291	-0.08982	-0.1449	0.0022	0.0027
51	2245	710	345	SLU 33	0.15306	0.79317	-0.24546	-0.145	0.0555	0.0027
51	2245	710	345	SLU 34	0.1259	0	-0.13199	0	0.0145	0
51	2245	710	345	SLU 35	0.2191	0.47598	-0.26233	-0.087	0.0604	0.0016
51	2245	710	345	SLU 36	-0.24069	0	0.19346	0	-0.0976	0
51	2245	710	345	SLU 37	-0.14755	0.47564	0.06313	-0.0869	-0.0517	0.0016
51	2245	710	345	SLU 38	-0.04837	0	0.0378	0	-0.0443	0
51	2245	710	345	SLU 39	0.04475	0.47588	-0.09252	-0.087	0.0016	0.0016
51	2245	710	345	SLU 40	-0.19252	0	0.12339	0	-0.0729	0
51	2245	710	345	SLU 41	-0.0373	0.79292	-0.09382	-0.1449	0.0036	0.0027
51	2245	710	345	SLU 42	0.15495	0.79317	-0.24946	-0.145	0.0569	0.0027
51	2245	710	345	SLU 43	0.12779	0	-0.13599	0	0.0159	0
51	2245	710	345	SLU 44	0.22099	0.47598	-0.26633	-0.087	0.0619	0.0016
51	2245	710	345	SLU 45	-0.08357	0.79284	-0.02776	-0.1449	-0.0197	0.0027
51	2245	710	345	SLU 46	0.10872	0.79313	-0.1834	-0.145	0.0337	0.0027
51	2245	710	345	SLU 47	0.08158	0	-0.06993	0	-0.0073	0
51	2245	710	345	SLU 48	0.17473	0.47599	-0.20027	-0.087	0.0386	0.0016
51	2245	710	345	SLU 49	-0.28507	0	0.25553	0	-0.1195	0
51	2245	710	345	SLU 50	-0.19193	0.47563	0.1252	-0.0869	-0.0736	0.0017
51	2245	710	345	SLU 51	-0.09283	0	0.09989	0	-0.0662	0
51	2245	710	345	SLU 52	0.00035	0.47578	-0.03045	-0.087	-0.0202	0.0016
51	2245	710	345	SLE RA 1	-0.14354	0	0.08855	0	-0.0538	0
51	2245	710	345	SLE RA 2	-0.04006	0.5286	-0.05626	-0.0966	-0.0028	0.0018
51	2245	710	345	SLE RA 3	0.08811	0.52878	-0.16002	-0.0967	0.0327	0.0018
51	2245	710	345	SLE RA 4	0.07001	0	-0.08437	0	0.0054	0
51	2245	710	345	SLE RA 5	0.13214	0.31732	-0.17127	-0.058	0.036	0.0011
51	2245	710	345	SLE RA 6	-0.07093	0.52854	-0.01221	-0.0966	-0.0183	0.0018
51	2245	710	345	SLE RA 7	0.05727	0.52872	-0.11598	-0.0966	0.0172	0.0018
51	2245	710	345	SLE RA 8	0.0392	0	-0.04034	0	-0.0101	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
51	2245	710	345	SLE RA 9	0.10131	0.31732	-0.12722	-0.058	0.0205	0.0011
51	2245	710	345	SLE RA 10	-0.20524	0	0.17664	0	-0.0849	0
51	2245	710	345	SLE RA 11	-0.14315	0.31708	0.08975	-0.0579	-0.0543	0.0011
51	2245	710	345	SLE RA 12	-0.07708	0	0.07288	0	-0.0493	0
51	2245	710	345	SLE RA 13	-0.01495	0.31718	-0.01401	-0.058	-0.0187	0.0011
51	2245	710	345	SLE FR 1	-0.14354	0	0.08855	0	-0.0538	0
51	2245	710	345	SLE FR 2	-0.12284	0.10568	0.05959	-0.0193	-0.0436	0.0004
51	2245	710	345	SLE FR 3	-0.10082	0	0.05396	0	-0.042	0
51	2245	710	345	SLE FR 4	-0.15588	0	0.10617	0	-0.06	0
51	2245	710	345	SLE QP 1	-0.14354	0	0.08855	0	-0.0538	0
51	2245	710	345	SLD 1	-0.41672	-0.50385	0.15563	0.0956	-0.0734	0.0036
51	2245	710	345	SLD 2	-0.41672	-0.50385	0.15563	0.0956	-0.0734	0.0036
51	2245	710	345	SLD 3	-0.41672	0.50385	0.15563	-0.0956	-0.0734	-0.0036
51	2245	710	345	SLD 4	-0.41672	0.50385	0.15563	-0.0956	-0.0734	-0.0036
51	2245	710	345	SLD 5	-0.22554	-1.67973	0.10869	0.3189	-0.0597	0.0121
51	2245	710	345	SLD 6	-0.22554	-1.67973	0.10869	0.3189	-0.0597	0.0121
51	2245	710	345	SLD 7	-0.22554	1.67973	0.10869	-0.3189	-0.0597	-0.0121
51	2245	710	345	SLD 8	-0.22554	1.67973	0.10869	-0.3189	-0.0597	-0.0121
51	2245	710	345	SLD 9	-0.06163	-1.67975	0.06844	0.3189	-0.048	0.0122
51	2245	710	345	SLD 10	-0.06163	-1.67975	0.06844	0.3189	-0.048	0.0122
51	2245	710	345	SLD 11	-0.06163	1.67975	0.06844	-0.3189	-0.048	-0.0122
51	2245	710	345	SLD 12	-0.06163	1.67975	0.06844	-0.3189	-0.048	-0.0122
51	2245	710	345	SLD 13	0.12968	-0.50389	0.02146	0.0957	-0.0343	0.0037
51	2245	710	345	SLD 14	0.12968	-0.50389	0.02146	0.0957	-0.0343	0.0037
51	2245	710	345	SLD 15	0.12968	0.50389	0.02146	-0.0957	-0.0343	-0.0037
51	2245	710	345	SLD 16	0.12968	0.50389	0.02146	-0.0957	-0.0343	-0.0037
51	2245	710	345	SLV 1	-0.84533	-1.29442	0.26089	0.2457	-0.1041	0.0093
51	2245	710	345	SLV 2	-0.84533	-1.29442	0.26089	0.2457	-0.1041	0.0093
51	2245	710	345	SLV 3	-0.84533	1.29442	0.26089	-0.2457	-0.1041	-0.0093
51	2245	710	345	SLV 4	-0.84533	1.29442	0.26089	-0.2457	-0.1041	-0.0093
51	2245	710	345	SLV 5	-0.35429	-4.31517	0.14031	0.8191	-0.0689	0.0312
51	2245	710	345	SLV 6	-0.35429	-4.31517	0.14031	0.8191	-0.0689	0.0312
51	2245	710	345	SLV 7	-0.35429	4.31517	0.14031	-0.8191	-0.0689	-0.0312
51	2245	710	345	SLV 8	-0.35429	4.31517	0.14031	-0.8191	-0.0689	-0.0312
51	2245	710	345	SLV 9	0.06677	-4.31521	0.03691	0.8191	-0.0388	0.0313
51	2245	710	345	SLV 10	0.06677	-4.31521	0.03691	0.8191	-0.0388	0.0313
51	2245	710	345	SLV 11	0.06677	4.31521	0.03691	-0.8191	-0.0388	-0.0313
51	2245	710	345	SLV 12	0.06677	4.31521	0.03691	-0.8191	-0.0388	-0.0313
51	2245	710	345	SLV 13	0.55821	-1.29457	-0.08377	0.2458	-0.0036	0.0094
51	2245	710	345	SLV 14	0.55821	-1.29457	-0.08377	0.2458	-0.0036	0.0094
51	2245	710	345	SLV 15	0.55821	1.29457	-0.08377	-0.2458	-0.0036	-0.0094
51	2245	710	345	SLV 16	0.55821	1.29457	-0.08377	-0.2458	-0.0036	-0.0094
51	2245	710	345	SLV FO 1	-0.84533	-1.29442	0.26089	0.2457	-0.1041	0.0093
51	2245	710	345	SLV FO 2	-0.84533	-1.29442	0.26089	0.2457	-0.1041	0.0093
51	2245	710	345	SLV FO 3	-0.84533	1.29442	0.26089	-0.2457	-0.1041	-0.0093
51	2245	710	345	SLV FO 4	-0.84533	1.29442	0.26089	-0.2457	-0.1041	-0.0093
51	2245	710	345	SLV FO 5	-0.35429	-4.31517	0.14031	0.8191	-0.0689	0.0312
51	2245	710	345	SLV FO 6	-0.35429	-4.31517	0.14031	0.8191	-0.0689	0.0312
51	2245	710	345	SLV FO 7	-0.35429	4.31517	0.14031	-0.8191	-0.0689	-0.0312
51	2245	710	345	SLV FO 8	-0.35429	4.31517	0.14031	-0.8191	-0.0689	-0.0312
51	2245	710	345	SLV FO 9	0.06677	-4.31521	0.03691	0.8191	-0.0388	0.0313
51	2245	710	345	SLV FO 10	0.06677	-4.31521	0.03691	0.8191	-0.0388	0.0313
51	2245	710	345	SLV FO 11	0.06677	4.31521	0.03691	-0.8191	-0.0388	-0.0313
51	2245	710	345	SLV FO 12	0.06677	4.31521	0.03691	-0.8191	-0.0388	-0.0313
51	2245	710	345	SLV FO 13	0.55821	-1.29457	-0.08377	0.2458	-0.0036	0.0094
51	2245	710	345	SLV FO 14	0.55821	-1.29457	-0.08377	0.2458	-0.0036	0.0094
51	2245	710	345	SLV FO 15	0.55821	1.29457	-0.08377	-0.2458	-0.0036	-0.0094
51	2245	710	345	SLV FO 16	0.55821	1.29457	-0.08377	-0.2458	-0.0036	-0.0094
52	2245	1210	345	SLU 1	-0.10878	-0.00002	0.03602	0	-0.0348	0
52	2245	1210	345	SLU 2	0.05091	0.79278	-0.09175	-0.1447	0.009	0.0031
52	2245	1210	345	SLU 3	0.21667	0.79296	-0.18662	-0.1447	0.0406	0.0031
52	2245	1210	345	SLU 4	0.16744	-0.00001	-0.1221	0	0.0179	0.0001
52	2245	1210	345	SLU 5	0.26326	0.47591	-0.19876	-0.0868	0.0441	0.0019
52	2245	1210	345	SLU 6	0.01066	0.79268	-0.05469	-0.1447	-0.0038	0.0031
52	2245	1210	345	SLU 7	0.17642	0.79293	-0.14956	-0.1447	0.0278	0.0031
52	2245	1210	345	SLU 8	0.1272	-0.00001	-0.08503	0	0.0051	0.0001
52	2245	1210	345	SLU 9	0.22301	0.47583	-0.16169	-0.0868	0.0313	0.0019
52	2245	1210	345	SLU 10	-0.18923	-0.00008	0.11013	0	-0.0604	0
52	2245	1210	345	SLU 11	-0.09344	0.47551	0.03348	-0.0868	-0.0341	0.0018
52	2245	1210	345	SLU 12	-0.02355	0	0.01527	0	-0.0288	0
52	2245	1210	345	SLU 13	0.07229	0.47574	-0.06139	-0.0868	-0.0025	0.0019
52	2245	1210	345	SLU 14	-0.14729	-0.00005	0.07089	0	-0.0468	0
52	2245	1210	345	SLU 15	0.01237	0.79269	-0.05687	-0.1447	-0.003	0.0031
52	2245	1210	345	SLU 16	0.17813	0.79293	-0.15174	-0.1447	0.0286	0.0031
52	2245	1210	345	SLU 17	0.12891	-0.00001	-0.08721	0	0.0058	0.0001
52	2245	1210	345	SLU 18	0.22472	0.47583	-0.16387	-0.0868	0.0321	0.0019
52	2245	1210	345	SLU 19	-0.02787	0.79264	-0.01981	-0.1447	-0.0158	0.0031
52	2245	1210	345	SLU 20	0.13789	0.7929	-0.11468	-0.1447	0.0158	0.0031
52	2245	1210	345	SLU 21	0.08867	-0.00001	-0.05015	0	-0.007	0
52	2245	1210	345	SLU 22	0.18451	0.47584	-0.12682	-0.0868	0.0193	0.0019
52	2245	1210	345	SLU 23	-0.22774	-0.0001	0.14501	0	-0.0724	0
52	2245	1210	345	SLU 24	-0.13195	0.4755	0.06835	-0.0868	-0.0462	0.0018
52	2245	1210	345	SLU 25	-0.06208	0	0.05015	0	-0.0408	0
52	2245	1210	345	SLU 26	0.03375	0.47565	-0.02651	-0.0868	-0.0146	0.0019
52	2245	1210	345	SLU 27	-0.14142	-0.00002	0.04682	0	-0.0452	0
52	2245	1210	345	SLU 28	0.01826	0.79276	-0.08094	-0.1447	-0.0014	0.0031
52	2245	1210	345	SLU 29	0.18402	0.79295	-0.17582	-0.1447	0.0302	0.0031
52	2245	1210	345	SLU 30	0.13479	-0.00001	-0.11129	0	0.0074	0.0001
52	2245	1210	345	SLU 31	0.23061	0.47591	-0.18795	-0.0868	0.0337	0.0019
52	2245	1210	345	SLU 32	-0.02199	0.79267	-0.04388	-0.1447	-0.0142	0.0031
52	2245	1210	345	SLU 33	0.14378	0.79292	-0.13875	-0.1447	0.0174	0.0031
52	2245	1210	345	SLU 34	0.09455	-0.00001	-0.07423	0	-0.0054	0.0001
52	2245	1210	345	SLU 35	0.19037	0.47583	-0.15089	-0.0868	0.0209	0.0019
52	2245	1210	345	SLU 36	-0.22186	-0.00008	0.12093	0	-0.0708	0
52	2245	1210	345	SLU 37	-0.12609	0.4755	0.04428	-0.0868	-0.0445	0.0018
52	2245	1210	345	SLU 38	-0.05619	0	0.02608	0	-0.0392	0
52	2245	1210	345	SLU 39	0.03964	0.47573	-0.05058	-0.0868	-0.013	0.0019
52	2245	1210	345	SLU 40	-0.17993	-0.00005	0.0817	0	-0.0573	0
52	2245	1210	345	SLU 41	-0.02027	0.79267	-0.04606	-0.1447	-0.0135	0.0031
52	2245	1210	345	SLU 42	0.14549	0.79293	-0.14093	-0.1447	0.0181	0.0031

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
52	2245	1210	345	SLU 43	0.09626	-0.00001	-0.07641	0	-0.0046	0.0001
52	2245	1210	345	SLU 44	0.19208	0.47583	-0.15307	-0.0868	0.0217	0.0019
52	2245	1210	345	SLU 45	-0.06051	0.7926	-0.009	-0.1447	-0.0263	0.0031
52	2245	1210	345	SLU 46	0.10524	0.79288	-0.10387	-0.1447	0.0053	0.0031
52	2245	1210	345	SLU 47	0.05602	-0.00001	-0.03935	0	-0.0174	0
52	2245	1210	345	SLU 48	0.15186	0.47584	-0.11601	-0.0868	0.0089	0.0019
52	2245	1210	345	SLU 49	-0.26037	-0.00011	0.15581	0	-0.0829	0
52	2245	1210	345	SLU 50	-0.1646	0.47548	0.07916	-0.0868	-0.0566	0.0018
52	2245	1210	345	SLU 51	-0.09466	-0.00001	0.06095	0	-0.0513	0
52	2245	1210	345	SLU 52	0.00111	0.47563	-0.0157	-0.0868	-0.025	0.0019
52	2245	1210	345	SLE RA 1	-0.13446	-0.00004	0.05927	0	-0.0428	0
52	2245	1210	345	SLE RA 2	-0.02803	0.52844	-0.0259	-0.0965	-0.0136	0.0021
52	2245	1210	345	SLE RA 3	0.08248	0.52861	-0.08915	-0.0965	0.0075	0.0021
52	2245	1210	345	SLE RA 4	0.04967	-0.00001	-0.04614	0	-0.0077	0
52	2245	1210	345	SLE RA 5	0.11354	0.31722	-0.09724	-0.0579	0.0098	0.0013
52	2245	1210	345	SLE RA 6	-0.05485	0.52837	-0.0012	-0.0965	-0.0221	0.002
52	2245	1210	345	SLE RA 7	0.05565	0.52856	-0.06444	-0.0965	-0.0011	0.0021
52	2245	1210	345	SLE RA 8	0.02284	0	-0.02143	0	-0.0162	0
52	2245	1210	345	SLE RA 9	0.08673	0.31722	-0.07254	-0.0579	0.0013	0.0013
52	2245	1210	345	SLE RA 10	-0.18809	-0.00007	0.10868	0	-0.0599	0
52	2245	1210	345	SLE RA 11	-0.12423	0.31699	0.05757	-0.0579	-0.0424	0.0012
52	2245	1210	345	SLE RA 12	-0.07761	-0.00001	0.04543	0	-0.0388	0
52	2245	1210	345	SLE RA 13	-0.01377	0.31708	-0.00566	-0.0579	-0.0213	0.0012
52	2245	1210	345	SLE FR 1	-0.13446	-0.00004	0.05927	0	-0.0428	0
52	2245	1210	345	SLE FR 2	-0.11317	0.10565	0.04223	-0.0193	-0.037	0.0004
52	2245	1210	345	SLE FR 3	-0.09763	-0.00002	0.03819	0	-0.0358	0
52	2245	1210	345	SLE FR 4	-0.14518	-0.00004	0.06915	0	-0.0462	0
52	2245	1210	345	SLE QP 1	-0.13446	-0.00004	0.05927	0	-0.0428	0
52	2245	1210	345	SLD 1	-0.42648	-0.50406	0.12991	0.0958	-0.0633	0.0038
52	2245	1210	345	SLD 2	-0.42648	-0.50406	0.12991	0.0958	-0.0633	0.0038
52	2245	1210	345	SLD 3	-0.34172	0.50366	0.11027	-0.0956	-0.0577	-0.0035
52	2245	1210	345	SLD 4	-0.34172	0.50366	0.11027	-0.0956	-0.0577	-0.0035
52	2245	1210	345	SLD 5	-0.35072	-1.68012	0.11028	0.3192	-0.0576	0.0127
52	2245	1210	345	SLD 6	-0.35072	-1.68012	0.11028	0.3192	-0.0576	0.0127
52	2245	1210	345	SLD 7	-0.06823	1.67908	0.04481	-0.3185	-0.0387	-0.0116
52	2245	1210	345	SLD 8	-0.06823	1.67908	0.04481	-0.3185	-0.0387	-0.0116
52	2245	1210	345	SLD 9	-0.20096	-1.68009	0.07379	0.3192	-0.0469	0.0127
52	2245	1210	345	SLD 10	-0.20096	-1.68009	0.07379	0.3192	-0.0469	0.0127
52	2245	1210	345	SLD 11	0.08153	1.6791	0.00833	-0.3185	-0.0281	-0.0116
52	2245	1210	345	SLD 12	0.08153	1.6791	0.00833	-0.3185	-0.0281	-0.0116
52	2245	1210	345	SLD 13	0.07274	-0.50395	0.00828	0.0957	-0.0279	0.0038
52	2245	1210	345	SLD 14	0.07274	-0.50395	0.00828	0.0957	-0.0279	0.0038
52	2245	1210	345	SLD 15	0.15742	0.50369	-0.01134	-0.0955	-0.0223	-0.0035
52	2245	1210	345	SLD 16	0.15742	0.50369	-0.01134	-0.0955	-0.0223	-0.0035
52	2245	1210	345	SLV 1	-0.88464	-1.29488	0.24075	0.246	-0.0956	0.0098
52	2245	1210	345	SLV 2	-0.88464	-1.29488	0.24075	0.246	-0.0956	0.0098
52	2245	1210	345	SLV 3	-0.66688	1.29393	0.19029	-0.2455	-0.081	-0.009
52	2245	1210	345	SLV 4	-0.66688	1.29393	0.19029	-0.2455	-0.081	-0.009
52	2245	1210	345	SLV 5	-0.69002	-4.31611	0.19031	0.82	-0.0807	0.0325
52	2245	1210	345	SLV 6	-0.69002	-4.31611	0.19031	0.82	-0.0807	0.0325
52	2245	1210	345	SLV 7	0.03577	4.31351	0.02212	-0.8182	-0.0322	-0.0299
52	2245	1210	345	SLV 8	0.03577	4.31351	0.02212	-0.8182	-0.0322	-0.0299
52	2245	1210	345	SLV 9	-0.30529	-4.31605	0.09657	0.82	-0.0534	0.0325
52	2245	1210	345	SLV 10	-0.30529	-4.31605	0.09657	0.82	-0.0534	0.0325
52	2245	1210	345	SLV 11	0.42046	4.31355	-0.07161	-0.8182	-0.0049	-0.0299
52	2245	1210	345	SLV 12	0.42046	4.31355	-0.07161	-0.8182	-0.0049	-0.0299
52	2245	1210	345	SLV 13	0.3978	-1.29469	-0.07171	0.246	-0.0046	0.0097
52	2245	1210	345	SLV 14	0.3978	-1.29469	-0.07171	0.246	-0.0046	0.0097
52	2245	1210	345	SLV 15	0.61544	1.29407	-0.12214	-0.2454	0.0099	-0.0089
52	2245	1210	345	SLV 16	0.61544	1.29407	-0.12214	-0.2454	0.0099	-0.0089
52	2245	1210	345	SLV FO 1	-0.88464	-1.29488	0.24075	0.246	-0.0956	0.0098
52	2245	1210	345	SLV FO 2	-0.88464	-1.29488	0.24075	0.246	-0.0956	0.0098
52	2245	1210	345	SLV FO 3	-0.66688	1.29393	0.19029	-0.2455	-0.081	-0.009
52	2245	1210	345	SLV FO 4	-0.66688	1.29393	0.19029	-0.2455	-0.081	-0.009
52	2245	1210	345	SLV FO 5	-0.69002	-4.31611	0.19031	0.82	-0.0807	0.0325
52	2245	1210	345	SLV FO 6	-0.69002	-4.31611	0.19031	0.82	-0.0807	0.0325
52	2245	1210	345	SLV FO 7	0.03577	4.31351	0.02212	-0.8182	-0.0322	-0.0299
52	2245	1210	345	SLV FO 8	0.03577	4.31351	0.02212	-0.8182	-0.0322	-0.0299
52	2245	1210	345	SLV FO 9	-0.30529	-4.31605	0.09657	0.82	-0.0534	0.0325
52	2245	1210	345	SLV FO 10	-0.30529	-4.31605	0.09657	0.82	-0.0534	0.0325
52	2245	1210	345	SLV FO 11	0.42046	4.31355	-0.07161	-0.8182	-0.0049	-0.0299
52	2245	1210	345	SLV FO 12	0.42046	4.31355	-0.07161	-0.8182	-0.0049	-0.0299
52	2245	1210	345	SLV FO 13	0.3978	-1.29469	-0.07171	0.246	-0.0046	0.0097
52	2245	1210	345	SLV FO 14	0.3978	-1.29469	-0.07171	0.246	-0.0046	0.0097
52	2245	1210	345	SLV FO 15	0.61544	1.29407	-0.12214	-0.2454	0.0099	-0.0089
52	2245	1210	345	SLV FO 16	0.61544	1.29407	-0.12214	-0.2454	0.0099	-0.0089
53	2175	210	353.8	SLU 1	-0.11411	0.00003	-0.00631	0	-0.0349	0
53	2175	210	353.8	SLU 2	0.00201	0.81276	-0.07328	-0.1247	0.0057	-0.0006
53	2175	210	353.8	SLU 3	0.17253	0.81283	-0.12961	-0.1247	0.0373	-0.0006
53	2175	210	353.8	SLU 4	0.17019	0.00011	-0.1002	0	0.0178	-0.0001
53	2175	210	353.8	SLU 5	0.23978	0.4877	-0.14038	-0.0748	0.0422	-0.0003
53	2175	210	353.8	SLU 6	-0.04014	0.81269	-0.05185	-0.1247	-0.0071	-0.0006
53	2175	210	353.8	SLU 7	0.13032	0.81283	-0.10817	-0.1247	0.0245	-0.0006
53	2175	210	353.8	SLU 8	0.12798	0.00009	-0.07876	0	0.005	-0.0001
53	2175	210	353.8	SLU 9	0.19761	0.48766	-0.11894	-0.0748	0.0294	-0.0003
53	2175	210	353.8	SLU 10	-0.19849	0.00012	0.03658	0	-0.0605	0
53	2175	210	353.8	SLU 11	-0.12876	0.48757	-0.00362	-0.0748	-0.0362	-0.0004
53	2175	210	353.8	SLU 12	-0.02796	0.00002	-0.01975	0	-0.0289	0
53	2175	210	353.8	SLU 13	0.0417	0.48769	-0.05994	-0.0748	-0.0045	-0.0003
53	2175	210	353.8	SLU 14	-0.15447	0.00007	0.01389	0	-0.0469	0
53	2175	210	353.8	SLU 15	-0.03832	0.81269	-0.0531	-0.1247	-0.0063	-0.0006
53	2175	210	353.8	SLU 16	0.13215	0.81283	-0.10942	-0.1247	0.0253	-0.0006
53	2175	210	353.8	SLU 17	0.12981	0.00009	-0.08001	0	0.0058	-0.0001
53	2175	210	353.8	SLU 18	0.19943	0.48766	-0.12019	-0.0748	0.0301	-0.0003
53	2175	210	353.8	SLU 19	-0.08051	0.81268	-0.03165	-0.1247	-0.0192	-0.0006
53	2175	210	353.8	SLU 20	0.08995	0.81283	-0.08797	-0.1247	0.0124	-0.0006
53	2175	210	353.8	SLU 21	0.0876	0.00007	-0.05856	0	-0.007	0
53	2175	210	353.8	SLU 22	0.15723	0.48771	-0.09874	-0.0748	0.0173	-0.0003
53	2175	210	353.8	SLU 23	-0.23885	0.00016	0.05677	0	-0.0726	0
53	2175	210	353.8	SLU 24	-0.16912	0.48759	0.01658	-0.0748	-0.0482	-0.0004
53	2175	210	353.8	SLU 25	-0.06834	0	0.00044	0	-0.041	0
53	2175	210	353.8	SLU 26	0.00137	0.48762	-0.03975	-0.0748	-0.0166	-0.0003
53	2175	210	353.8	SLU 27	-0.14834	0.00004	-0.0082	0	-0.0453	0

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
53	2175	210	353.8	SLU 28	-0.03223	0.81275	-0.07518	-0.1247	-0.0047	-0.0006
53	2175	210	353.8	SLU 29	0.13829	0.81283	-0.13151	-0.1247	0.0269	-0.0006
53	2175	210	353.8	SLU 30	0.13595	0.00011	-0.10209	0	0.0074	-0.0001
53	2175	210	353.8	SLU 31	0.20554	0.48771	-0.14227	-0.0748	0.0317	-0.0003
53	2175	210	353.8	SLU 32	-0.07438	0.81268	-0.05374	-0.1247	-0.0176	-0.0006
53	2175	210	353.8	SLU 33	0.09608	0.81283	-0.11006	-0.1247	0.0141	-0.0006
53	2175	210	353.8	SLU 34	0.09374	0.00009	-0.08065	0	-0.0054	-0.0001
53	2175	210	353.8	SLU 35	0.16336	0.48766	-0.12083	-0.0748	0.0189	-0.0003
53	2175	210	353.8	SLU 36	-0.23272	0.00013	0.03469	0	-0.071	0
53	2175	210	353.8	SLU 37	-0.16299	0.48756	-0.00551	-0.0748	-0.0466	-0.0004
53	2175	210	353.8	SLU 38	-0.06221	0.00001	-0.02164	0	-0.0394	0
53	2175	210	353.8	SLU 39	0.00746	0.48768	-0.06183	-0.0748	-0.015	-0.0003
53	2175	210	353.8	SLU 40	-0.18871	0.00008	0.01199	0	-0.0574	0
53	2175	210	353.8	SLU 41	-0.07255	0.81268	-0.05499	-0.1247	-0.0168	-0.0006
53	2175	210	353.8	SLU 42	0.09791	0.81283	-0.11131	-0.1247	0.0148	-0.0006
53	2175	210	353.8	SLU 43	0.09557	0.00009	-0.0819	0	-0.0047	-0.0001
53	2175	210	353.8	SLU 44	0.16519	0.48766	-0.12208	-0.0748	0.0197	-0.0003
53	2175	210	353.8	SLU 45	-0.11472	0.81264	-0.03355	-0.1247	-0.0296	-0.0006
53	2175	210	353.8	SLU 46	0.05572	0.81281	-0.08987	-0.1247	0.002	-0.0006
53	2175	210	353.8	SLU 47	0.05336	0.00007	-0.06045	0	-0.0175	0
53	2175	210	353.8	SLU 48	0.12299	0.48771	-0.10063	-0.0748	0.0068	-0.0003
53	2175	210	353.8	SLU 49	-0.27308	0.00017	0.05488	0	-0.0831	0
53	2175	210	353.8	SLU 50	-0.20336	0.48758	0.01468	-0.0748	-0.0587	-0.0004
53	2175	210	353.8	SLU 51	-0.10252	0.00001	-0.00146	0	-0.0514	0
53	2175	210	353.8	SLU 52	-0.03286	0.48761	-0.04164	-0.0748	-0.0271	-0.0003
53	2175	210	353.8	SLE RA 1	-0.14102	0.00006	0.00715	0	-0.0429	0
53	2175	210	353.8	SLE RA 2	-0.06358	0.54178	-0.0375	-0.0831	-0.0159	-0.0004
53	2175	210	353.8	SLE RA 3	0.05006	0.54188	-0.07505	-0.0831	0.0052	-0.0004
53	2175	210	353.8	SLE RA 4	0.04849	0.00006	-0.05544	0	-0.0078	0
53	2175	210	353.8	SLE RA 5	0.09491	0.32511	-0.08223	-0.0499	0.0085	-0.0002
53	2175	210	353.8	SLE RA 6	-0.09167	0.54174	-0.02321	-0.0831	-0.0244	-0.0004
53	2175	210	353.8	SLE RA 7	0.02195	0.54185	-0.06076	-0.0831	-0.0033	-0.0004
53	2175	210	353.8	SLE RA 8	0.02035	0.00004	-0.04114	0	-0.0163	0
53	2175	210	353.8	SLE RA 9	0.06677	0.32514	-0.06793	-0.0499	-0.0001	-0.0002
53	2175	210	353.8	SLE RA 10	-0.19727	0.00012	0.03575	0	-0.06	0
53	2175	210	353.8	SLE RA 11	-0.15078	0.32506	0.00895	-0.0499	-0.0438	-0.0002
53	2175	210	353.8	SLE RA 12	-0.08356	0.00001	-0.00181	0	-0.0389	0
53	2175	210	353.8	SLE RA 13	-0.03712	0.32507	-0.0286	-0.0499	-0.0227	-0.0002
53	2175	210	353.8	SLE FR 1	-0.14102	0.00006	0.00715	0	-0.0429	0
53	2175	210	353.8	SLE FR 2	-0.12552	0.10836	-0.00178	-0.0166	-0.0375	-0.0001
53	2175	210	353.8	SLE FR 3	-0.10312	0.00002	-0.00536	0	-0.0359	0
53	2175	210	353.8	SLE FR 4	-0.15227	0.00007	0.01287	0	-0.0463	0
53	2175	210	353.8	SLE QP 1	-0.14102	0.00006	0.00715	0	-0.0429	0
53	2175	210	353.8	SLD 1	-0.35057	-0.52273	0.03999	0.0956	-0.0578	0.0037
53	2175	210	353.8	SLD 2	-0.35057	-0.52273	0.03999	0.0956	-0.0578	0.0037
53	2175	210	353.8	SLD 3	-0.43619	0.5235	0.05271	-0.0958	-0.0635	-0.004
53	2175	210	353.8	SLD 4	-0.43619	0.5235	0.05271	-0.0958	-0.0635	-0.004
53	2175	210	353.8	SLD 5	-0.07415	-1.7425	-0.00226	0.3186	-0.0388	0.0124
53	2175	210	353.8	SLD 6	-0.07415	-1.7425	-0.00226	0.3186	-0.0388	0.0124
53	2175	210	353.8	SLD 7	-0.35955	1.74483	0.04013	-0.3193	-0.0577	-0.0132
53	2175	210	353.8	SLD 8	-0.35955	1.74483	0.04013	-0.3193	-0.0577	-0.0132
53	2175	210	353.8	SLD 9	0.07723	-1.7425	-0.02577	0.3186	-0.0282	0.0123
53	2175	210	353.8	SLD 10	0.07723	-1.7425	-0.02577	0.3186	-0.0282	0.0123
53	2175	210	353.8	SLD 11	-0.20816	1.7448	0.01662	-0.3193	-0.0471	-0.0132
53	2175	210	353.8	SLD 12	-0.20816	1.7448	0.01662	-0.3193	-0.0471	-0.0132
53	2175	210	353.8	SLD 13	0.15402	-0.52269	-0.03837	0.0956	-0.0224	0.0037
53	2175	210	353.8	SLD 14	0.15402	-0.52269	-0.03837	0.0956	-0.0224	0.0037
53	2175	210	353.8	SLD 15	0.06846	0.52335	-0.02567	-0.0958	-0.028	-0.0039
53	2175	210	353.8	SLD 16	0.06846	0.52335	-0.02567	-0.0958	-0.028	-0.0039
53	2175	210	353.8	SLV 1	-0.67931	-1.34288	0.0915	0.2455	-0.0811	0.0096
53	2175	210	353.8	SLV 2	-0.67931	-1.34288	0.0915	0.2455	-0.0811	0.0096
53	2175	210	353.8	SLV 3	-0.8993	1.34481	0.12417	-0.2461	-0.0957	-0.0102
53	2175	210	353.8	SLV 4	-0.8993	1.34481	0.12417	-0.2461	-0.0957	-0.0102
53	2175	210	353.8	SLV 5	0.03084	-4.47641	-0.01704	0.8184	-0.0323	0.0317
53	2175	210	353.8	SLV 6	0.03084	-4.47641	-0.01704	0.8184	-0.0323	0.0317
53	2175	210	353.8	SLV 7	-0.7024	4.48235	0.09186	-0.8202	-0.0808	-0.0339
53	2175	210	353.8	SLV 8	-0.7024	4.48235	0.09186	-0.8202	-0.0808	-0.0339
53	2175	210	353.8	SLV 9	0.41972	-4.4764	-0.07744	0.8184	-0.005	0.0317
53	2175	210	353.8	SLV 10	0.41972	-4.4764	-0.07744	0.8184	-0.005	0.0317
53	2175	210	353.8	SLV 11	-0.31348	4.48226	0.03146	-0.8201	-0.0535	-0.0338
53	2175	210	353.8	SLV 12	-0.31348	4.48226	0.03146	-0.8201	-0.0535	-0.0338
53	2175	210	353.8	SLV 13	0.61698	-1.34285	-0.10981	0.2455	0.0098	0.0095
53	2175	210	353.8	SLV 14	0.61698	-1.34285	-0.10981	0.2455	0.0098	0.0095
53	2175	210	353.8	SLV 15	0.39711	1.3445	-0.07716	-0.246	-0.0047	-0.0101
53	2175	210	353.8	SLV 16	0.39711	1.3445	-0.07716	-0.246	-0.0047	-0.0101
53	2175	210	353.8	SLV FO 1	-0.67931	-1.34288	0.0915	0.2455	-0.0811	0.0096
53	2175	210	353.8	SLV FO 2	-0.67931	-1.34288	0.0915	0.2455	-0.0811	0.0096
53	2175	210	353.8	SLV FO 3	-0.8993	1.34481	0.12417	-0.2461	-0.0957	-0.0102
53	2175	210	353.8	SLV FO 4	-0.8993	1.34481	0.12417	-0.2461	-0.0957	-0.0102
53	2175	210	353.8	SLV FO 5	0.03084	-4.47641	-0.01704	0.8184	-0.0323	0.0317
53	2175	210	353.8	SLV FO 6	0.03084	-4.47641	-0.01704	0.8184	-0.0323	0.0317
53	2175	210	353.8	SLV FO 7	-0.7024	4.48235	0.09186	-0.8202	-0.0808	-0.0339
53	2175	210	353.8	SLV FO 8	-0.7024	4.48235	0.09186	-0.8202	-0.0808	-0.0339
53	2175	210	353.8	SLV FO 9	0.41972	-4.4764	-0.07744	0.8184	-0.005	0.0317
53	2175	210	353.8	SLV FO 10	0.41972	-4.4764	-0.07744	0.8184	-0.005	0.0317
53	2175	210	353.8	SLV FO 11	-0.31348	4.48226	0.03146	-0.8201	-0.0535	-0.0338
53	2175	210	353.8	SLV FO 12	-0.31348	4.48226	0.03146	-0.8201	-0.0535	-0.0338
53	2175	210	353.8	SLV FO 13	0.61698	-1.34285	-0.10981	0.2455	0.0098	0.0095
53	2175	210	353.8	SLV FO 14	0.61698	-1.34285	-0.10981	0.2455	0.0098	0.0095
53	2175	210	353.8	SLV FO 15	0.39711	1.3445	-0.07716	-0.246	-0.0047	-0.0101
53	2175	210	353.8	SLV FO 16	0.39711	1.3445	-0.07716	-0.246	-0.0047	-0.0101
54	2175	710	353.8	SLU 1	-0.11996	0	-0.00054	0	-0.0394	0
54	2175	710	353.8	SLU 2	0.04699	0.81205	-0.12445	-0.145	0.0373	0.0026
54	2175	710	353.8	SLU 3	0.24736	0.81228	-0.21508	-0.145	0.0907	0.0025
54	2175	710	353.8	SLU 4	0.21391	0	-0.15157	0	0.0496	0
54	2175	710	353.8	SLU 5	0.31418	0.48753	-0.22594	-0.087	0.0956	0.0015
54	2175	710	353.8	SLU 6	-0.00286	0.81194	-0.08677	-0.1449	0.0139	0.0026
54	2175	710	353.8	SLU 7	0.19757	0.81224	-0.17741	-0.145	0.0673	0.0026
54	2175	710	353.8	SLU 8	0.16412	0	-0.1139	0	0.0262	0
54	2175	710	353.8	SLU 9	0.26436	0.48745	-0.18826	-0.087	0.0723	0.0015

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
54	2175	710	353.8	SLU 10	-0.21966	0	0.07482	0	-0.0861	0
54	2175	710	353.8	SLU 11	-0.11949	0.48704	0.00047	-0.0869	-0.0401	0.0016
54	2175	710	353.8	SLU 12	-0.01919	0	-0.01582	0	-0.0327	0
54	2175	710	353.8	SLU 13	0.08099	0.48732	-0.09017	-0.087	0.0133	0.0015
54	2175	710	353.8	SLU 14	-0.1677	0	0.03487	0	-0.0613	0
54	2175	710	353.8	SLU 15	-0.00075	0.81194	-0.08904	-0.1449	0.0154	0.0026
54	2175	710	353.8	SLU 16	0.19968	0.81224	-0.17968	-0.145	0.0688	0.0026
54	2175	710	353.8	SLU 17	0.16623	0	-0.11617	0	0.0277	0
54	2175	710	353.8	SLU 18	0.26647	0.48745	-0.19053	-0.087	0.0737	0.0015
54	2175	710	353.8	SLU 19	-0.05056	0.81189	-0.05137	-0.1449	-0.008	0.0026
54	2175	710	353.8	SLU 20	0.14988	0.8122	-0.14201	-0.145	0.0454	0.0026
54	2175	710	353.8	SLU 21	0.11644	0	-0.0785	0	0.0043	0
54	2175	710	353.8	SLU 22	0.21664	0.48745	-0.15285	-0.087	0.0503	0.0015
54	2175	710	353.8	SLU 23	-0.2674	0	0.11023	0	-0.108	0
54	2175	710	353.8	SLU 24	-0.16722	0.48702	0.03588	-0.0869	-0.062	0.0016
54	2175	710	353.8	SLU 25	-0.06687	0	0.01958	0	-0.0546	0
54	2175	710	353.8	SLU 26	0.03324	0.48721	-0.05476	-0.087	-0.0086	0.0015
54	2175	710	353.8	SLU 27	-0.15595	0	-0.0007	0	-0.0512	0
54	2175	710	353.8	SLU 28	0.01102	0.81203	-0.12462	-0.145	0.0254	0.0026
54	2175	710	353.8	SLU 29	0.2114	0.81227	-0.21525	-0.145	0.0788	0.0025
54	2175	710	353.8	SLU 30	0.17794	0	-0.15174	0	0.0377	0
54	2175	710	353.8	SLU 31	0.27822	0.48753	-0.2261	-0.087	0.0838	0.0015
54	2175	710	353.8	SLU 32	-0.03883	0.81192	-0.08694	-0.1449	0.0021	0.0026
54	2175	710	353.8	SLU 33	0.1616	0.81223	-0.17757	-0.145	0.0555	0.0026
54	2175	710	353.8	SLU 34	0.12815	0	-0.11407	0	0.0144	0
54	2175	710	353.8	SLU 35	0.2284	0.48744	-0.18843	-0.087	0.0604	0.0015
54	2175	710	353.8	SLU 36	-0.25565	0	0.07466	0	-0.0979	0
54	2175	710	353.8	SLU 37	-0.15547	0.48702	0.00031	-0.0869	-0.0519	0.0016
54	2175	710	353.8	SLU 38	-0.05514	0	-0.01599	0	-0.0445	0
54	2175	710	353.8	SLU 39	0.04502	0.48731	-0.09034	-0.087	0.0015	0.0015
54	2175	710	353.8	SLU 40	-0.20369	0	0.03471	0	-0.0732	0
54	2175	710	353.8	SLU 41	-0.03672	0.81192	-0.08921	-0.1449	0.0035	0.0026
54	2175	710	353.8	SLU 42	0.16371	0.81223	-0.17984	-0.145	0.0569	0.0026
54	2175	710	353.8	SLU 43	0.13026	0	-0.11634	0	0.0158	0
54	2175	710	353.8	SLU 44	0.2305	0.48744	-0.1907	-0.087	0.0619	0.0015
54	2175	710	353.8	SLU 45	-0.08657	0.81184	-0.05153	-0.1449	-0.0198	0.0026
54	2175	710	353.8	SLU 46	0.1139	0.81217	-0.14217	-0.145	0.0336	0.0026
54	2175	710	353.8	SLU 47	0.08047	0	-0.07867	0	-0.0075	0
54	2175	710	353.8	SLU 48	0.18068	0.48744	-0.15302	-0.087	0.0385	0.0015
54	2175	710	353.8	SLU 49	-0.30339	0	0.11007	0	-0.1198	0
54	2175	710	353.8	SLU 50	-0.2032	0.487	0.03572	-0.0869	-0.0738	0.0016
54	2175	710	353.8	SLU 51	-0.10297	0	0.01943	0	-0.0664	0
54	2175	710	353.8	SLU 52	-0.00274	0.48719	-0.05493	-0.087	-0.0204	0.0015
54	2175	710	353.8	SLE RA 1	-0.15179	0	0.02307	0	-0.054	0
54	2175	710	353.8	SLE RA 2	-0.04047	0.54127	-0.05954	-0.0966	-0.0029	0.0017
54	2175	710	353.8	SLE RA 3	0.09315	0.54148	-0.11997	-0.0967	0.0327	0.0017
54	2175	710	353.8	SLE RA 4	0.07086	0	-0.07763	0	0.0053	0
54	2175	710	353.8	SLE RA 5	0.13768	0.32496	-0.1272	-0.058	0.036	0.001
54	2175	710	353.8	SLE RA 6	-0.07373	0.54119	-0.03442	-0.0966	-0.0185	0.0017
54	2175	710	353.8	SLE RA 7	0.05993	0.54141	-0.09485	-0.0967	0.0171	0.0017
54	2175	710	353.8	SLE RA 8	0.03766	0	-0.05252	0	-0.0102	0
54	2175	710	353.8	SLE RA 9	0.10447	0.32496	-0.10209	-0.058	0.0204	0.001
54	2175	710	353.8	SLE RA 10	-0.21825	0	0.07331	0	-0.0851	0
54	2175	710	353.8	SLE RA 11	-0.15146	0.32466	0.02374	-0.058	-0.0545	0.001
54	2175	710	353.8	SLE RA 12	-0.08464	0	0.01288	0	-0.0495	0
54	2175	710	353.8	SLE RA 13	-0.01781	0.32478	-0.03669	-0.058	-0.0189	0.001
54	2175	710	353.8	SLE FR 1	-0.15179	0	0.02307	0	-0.054	0
54	2175	710	353.8	SLE FR 2	-0.12952	0.10821	0.00655	-0.0193	-0.0438	0.0004
54	2175	710	353.8	SLE FR 3	-0.10725	0	0.00293	0	-0.0422	0
54	2175	710	353.8	SLE FR 4	-0.16508	0	0.03312	0	-0.0603	0
54	2175	710	353.8	SLE QP 1	-0.15179	0	0.02307	0	-0.054	0
54	2175	710	353.8	SLD 1	-0.42797	-0.52304	0.06625	0.0957	-0.0736	0.0038
54	2175	710	353.8	SLD 2	-0.42797	-0.52304	0.06625	0.0957	-0.0736	0.0038
54	2175	710	353.8	SLD 3	-0.42797	0.52304	0.06625	-0.0957	-0.0736	-0.0038
54	2175	710	353.8	SLD 4	-0.42797	0.52304	0.06625	-0.0957	-0.0736	-0.0038
54	2175	710	353.8	SLD 5	-0.23468	-1.74378	0.03604	0.3189	-0.0599	0.0127
54	2175	710	353.8	SLD 6	-0.23468	-1.74378	0.03604	0.3189	-0.0599	0.0127
54	2175	710	353.8	SLD 7	-0.23468	1.74378	0.03604	-0.3189	-0.0599	-0.0127
54	2175	710	353.8	SLD 8	-0.23468	1.74378	0.03604	-0.3189	-0.0599	-0.0127
54	2175	710	353.8	SLD 9	-0.06897	-1.74381	0.01013	0.3189	-0.0482	0.0128
54	2175	710	353.8	SLD 10	-0.06897	-1.74381	0.01013	0.3189	-0.0482	0.0128
54	2175	710	353.8	SLD 11	-0.06897	1.74381	0.01013	-0.3189	-0.0482	-0.0128
54	2175	710	353.8	SLD 12	-0.06897	1.74381	0.01013	-0.3189	-0.0482	-0.0128
54	2175	710	353.8	SLD 13	0.12443	-0.52312	-0.02012	0.0957	-0.0345	0.0038
54	2175	710	353.8	SLD 14	0.12443	-0.52312	-0.02012	0.0957	-0.0345	0.0038
54	2175	710	353.8	SLD 15	0.12443	0.52312	-0.02012	-0.0957	-0.0345	-0.0038
54	2175	710	353.8	SLD 16	0.12443	0.52312	-0.02012	-0.0957	-0.0345	-0.0038
54	2175	710	353.8	SLV 1	-0.86129	-1.34372	0.13401	0.2457	-0.1043	0.0098
54	2175	710	353.8	SLV 2	-0.86129	-1.34372	0.13401	0.2457	-0.1043	0.0098
54	2175	710	353.8	SLV 3	-0.86129	1.34372	0.13401	-0.2457	-0.1043	-0.0098
54	2175	710	353.8	SLV 4	-0.86129	1.34372	0.13401	-0.2457	-0.1043	-0.0098
54	2175	710	353.8	SLV 5	-0.36485	-4.47974	0.0564	0.8193	-0.0691	0.0328
54	2175	710	353.8	SLV 6	-0.36485	-4.47974	0.0564	0.8193	-0.0691	0.0328
54	2175	710	353.8	SLV 7	-0.36485	4.47974	0.0564	-0.8193	-0.0691	-0.0328
54	2175	710	353.8	SLV 8	-0.36485	4.47974	0.0564	-0.8193	-0.0691	-0.0328
54	2175	710	353.8	SLV 9	0.06085	-4.47982	-0.01016	0.8193	-0.039	0.0328
54	2175	710	353.8	SLV 10	0.06085	-4.47982	-0.01016	0.8193	-0.039	0.0328
54	2175	710	353.8	SLV 11	0.06085	4.47982	-0.01016	-0.8193	-0.039	-0.0328
54	2175	710	353.8	SLV 12	0.06085	4.47982	-0.01016	-0.8193	-0.039	-0.0328
54	2175	710	353.8	SLV 13	0.55768	-1.344	-0.08786	0.2458	-0.0038	0.0099
54	2175	710	353.8	SLV 14	0.55768	-1.344	-0.08786	0.2458	-0.0038	0.0099
54	2175	710	353.8	SLV 15	0.55768	1.344	-0.08786	-0.2458	-0.0038	-0.0099
54	2175	710	353.8	SLV 16	0.55768	1.344	-0.08786	-0.2458	-0.0038	-0.0099
54	2175	710	353.8	SLV FO 1	-0.86129	-1.34372	0.13401	0.2457	-0.1043	0.0098
54	2175	710	353.8	SLV FO 2	-0.86129	-1.34372	0.13401	0.2457	-0.1043	0.0098
54	2175	710	353.8	SLV FO 3	-0.86129	1.34372	0.13401	-0.2457	-0.1043	-0.0098
54	2175	710	353.8	SLV FO 4	-0.86129	1.34372	0.13401	-0.2457	-0.1043	-0.0098
54	2175	710	353.8	SLV FO 5	-0.36485	-4.47974	0.0564	0.8193	-0.0691	0.0328
54	2175	710	353.8	SLV FO 6	-0.36485	-4.47974	0.0564	0.8193	-0.0691	0.0328
54	2175	710	353.8	SLV FO 7	-0.36485	4.47974	0.0564	-0.8193	-0.0691	-0.0328
54	2175	710	353.8	SLV FO 8	-0.36485	4.47974	0.0564	-0.8193	-0.0691	-0.0328
54	2175	710	353.8	SLV FO 9	0.06085	-4.47982	-0.01016	0.8193	-0.039	0.0328
54	2175	710	353.8	SLV FO 10	0.06085	-4.47982	-0.01016	0.8193	-0.039	0.0328

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
54	2175	710	353.8	SLV FO 11	0.06085	4.47982	-0.01016	-0.8193	-0.039	-0.0328
54	2175	710	353.8	SLV FO 12	0.06085	4.47982	-0.01016	-0.8193	-0.039	-0.0328
54	2175	710	353.8	SLV FO 13	0.55768	-1.344	-0.08786	0.2458	-0.0038	0.0099
54	2175	710	353.8	SLV FO 14	0.55768	-1.344	-0.08786	0.2458	-0.0038	0.0099
54	2175	710	353.8	SLV FO 15	0.55768	1.344	-0.08786	-0.2458	-0.0038	-0.0099
54	2175	710	353.8	SLV FO 16	0.55768	1.344	-0.08786	-0.2458	-0.0038	-0.0099
55	2175	1210	353.8	SLU 1	-0.11411	-0.00003	-0.00631	0	-0.0349	0
55	2175	1210	353.8	SLU 2	0.0523	0.81133	-0.08067	-0.1448	0.009	0.0029
55	2175	1210	353.8	SLU 3	0.22291	0.81148	-0.13701	-0.1448	0.0406	0.0029
55	2175	1210	353.8	SLU 4	0.17019	-0.00011	-0.1002	0	0.0178	0.0001
55	2175	1210	353.8	SLU 5	0.27004	0.48697	-0.14482	-0.0869	0.0442	0.0018
55	2175	1210	353.8	SLU 6	0.01009	0.81125	-0.05922	-0.1447	-0.0038	0.0028
55	2175	1210	353.8	SLU 7	0.1807	0.81146	-0.11556	-0.1448	0.0278	0.0029
55	2175	1210	353.8	SLU 8	0.12798	-0.00009	-0.07876	0	0.005	0.0001
55	2175	1210	353.8	SLU 9	0.22783	0.48691	-0.12337	-0.0869	0.0313	0.0018
55	2175	1210	353.8	SLU 10	-0.19849	-0.00012	0.03658	0	-0.0605	0
55	2175	1210	353.8	SLU 11	-0.09867	0.48666	-0.00803	-0.0868	-0.0342	0.0017
55	2175	1210	353.8	SLU 12	-0.02796	-0.00002	-0.01975	0	-0.0289	0
55	2175	1210	353.8	SLU 13	0.07191	0.48686	-0.06437	-0.0869	-0.0026	0.0017
55	2175	1210	353.8	SLU 14	-0.15447	-0.00007	0.01389	0	-0.0469	0
55	2175	1210	353.8	SLU 15	0.01192	0.81125	-0.06047	-0.1447	-0.0031	0.0028
55	2175	1210	353.8	SLU 16	0.18253	0.81146	-0.11682	-0.1448	0.0286	0.0029
55	2175	1210	353.8	SLU 17	0.12981	-0.00009	-0.08001	0	0.0058	0.0001
55	2175	1210	353.8	SLU 18	0.22966	0.48691	-0.12463	-0.0869	0.0321	0.0018
55	2175	1210	353.8	SLU 19	-0.0303	0.81121	-0.03903	-0.1447	-0.0159	0.0028
55	2175	1210	353.8	SLU 20	0.14032	0.81144	-0.09537	-0.1448	0.0157	0.0029
55	2175	1210	353.8	SLU 21	0.0876	-0.00007	-0.05856	0	-0.007	0
55	2175	1210	353.8	SLU 22	0.18748	0.48693	-0.10318	-0.0869	0.0193	0.0017
55	2175	1210	353.8	SLU 23	-0.23885	-0.00016	0.05677	0	-0.0726	0
55	2175	1210	353.8	SLU 24	-0.13903	0.48666	0.01216	-0.0868	-0.0463	0.0017
55	2175	1210	353.8	SLU 25	-0.06834	0	0.00044	0	-0.041	0
55	2175	1210	353.8	SLU 26	0.03153	0.48677	-0.04418	-0.0868	-0.0146	0.0017
55	2175	1210	353.8	SLU 27	-0.14834	-0.00004	-0.0082	0	-0.0453	0
55	2175	1210	353.8	SLU 28	0.01806	0.81132	-0.08256	-0.1448	-0.0015	0.0029
55	2175	1210	353.8	SLU 29	0.18867	0.81147	-0.1389	-0.1448	0.0302	0.0029
55	2175	1210	353.8	SLU 30	0.13595	-0.00011	-0.10209	0	0.0074	0.0001
55	2175	1210	353.8	SLU 31	0.2358	0.48697	-0.14671	-0.0869	0.0337	0.0018
55	2175	1210	353.8	SLU 32	-0.02416	0.81123	-0.06111	-0.1447	-0.0143	0.0028
55	2175	1210	353.8	SLU 33	0.14645	0.81145	-0.11745	-0.1448	0.0173	0.0029
55	2175	1210	353.8	SLU 34	0.09374	-0.00009	-0.08065	0	-0.0054	0.0001
55	2175	1210	353.8	SLU 35	0.19359	0.4869	-0.12527	-0.0869	0.0209	0.0018
55	2175	1210	353.8	SLU 36	-0.23272	-0.00013	0.03469	0	-0.071	0
55	2175	1210	353.8	SLU 37	-0.13292	0.48665	-0.00992	-0.0868	-0.0447	0.0017
55	2175	1210	353.8	SLU 38	-0.06221	-0.00001	-0.02164	0	-0.0394	0
55	2175	1210	353.8	SLU 39	0.03766	0.48685	-0.06626	-0.0869	-0.013	0.0017
55	2175	1210	353.8	SLU 40	-0.18871	-0.00008	0.01199	0	-0.0574	0
55	2175	1210	353.8	SLU 41	-0.02233	0.81123	-0.06236	-0.1447	-0.0135	0.0028
55	2175	1210	353.8	SLU 42	0.14828	0.81146	-0.11871	-0.1448	0.0181	0.0029
55	2175	1210	353.8	SLU 43	0.09557	-0.00009	-0.0819	0	-0.0047	0.0001
55	2175	1210	353.8	SLU 44	0.19542	0.4869	-0.12652	-0.0869	0.0216	0.0018
55	2175	1210	353.8	SLU 45	-0.06453	0.81117	-0.04092	-0.1447	-0.0264	0.0028
55	2175	1210	353.8	SLU 46	0.10607	0.81142	-0.09726	-0.1448	0.0053	0.0029
55	2175	1210	353.8	SLU 47	0.05336	-0.00007	-0.06045	0	-0.0175	0
55	2175	1210	353.8	SLU 48	0.15324	0.48693	-0.10508	-0.0869	0.0088	0.0017
55	2175	1210	353.8	SLU 49	-0.27308	-0.00017	0.05488	0	-0.0831	0
55	2175	1210	353.8	SLU 50	-0.17327	0.48665	0.01027	-0.0868	-0.0567	0.0017
55	2175	1210	353.8	SLU 51	-0.10252	-0.00001	-0.00146	0	-0.0514	0
55	2175	1210	353.8	SLU 52	-0.00272	0.48675	-0.04607	-0.0868	-0.0251	0.0017
55	2175	1210	353.8	SLE RA 1	-0.14102	-0.00006	0.00715	0	-0.0429	0
55	2175	1210	353.8	SLE RA 2	-0.03011	0.54082	-0.04242	-0.0965	-0.0137	0.0019
55	2175	1210	353.8	SLE RA 3	0.08364	0.54097	-0.07998	-0.0965	0.0074	0.0019
55	2175	1210	353.8	SLE RA 4	0.04849	-0.00006	-0.05544	0	-0.0078	0
55	2175	1210	353.8	SLE RA 5	0.11506	0.3246	-0.08518	-0.0579	0.0098	0.0012
55	2175	1210	353.8	SLE RA 6	-0.05824	0.54075	-0.02812	-0.0965	-0.0222	0.0019
55	2175	1210	353.8	SLE RA 7	0.05549	0.54092	-0.06568	-0.0965	-0.0011	0.0019
55	2175	1210	353.8	SLE RA 8	0.02035	-0.00004	-0.04114	0	-0.0163	0
55	2175	1210	353.8	SLE RA 9	0.08694	0.32462	-0.07089	-0.0579	0.0012	0.0012
55	2175	1210	353.8	SLE RA 10	-0.19727	-0.00012	0.03575	0	-0.06	0
55	2175	1210	353.8	SLE RA 11	-0.13073	0.32443	0.006	-0.0579	-0.0425	0.0011
55	2175	1210	353.8	SLE RA 12	-0.08356	-0.00001	-0.00181	0	-0.0389	0
55	2175	1210	353.8	SLE RA 13	-0.01703	0.3245	-0.03155	-0.0579	-0.0214	0.0011
55	2175	1210	353.8	SLE FR 1	-0.14102	-0.00006	0.00715	0	-0.0429	0
55	2175	1210	353.8	SLE FR 2	-0.11884	0.10814	-0.00276	-0.0193	-0.0371	0.0004
55	2175	1210	353.8	SLE FR 3	-0.10312	-0.00002	-0.00536	0	-0.0359	0
55	2175	1210	353.8	SLE FR 4	-0.15227	-0.00007	0.01287	0	-0.0463	0
55	2175	1210	353.8	SLE QP 1	-0.14102	-0.00006	0.00715	0	-0.0429	0
55	2175	1210	353.8	SLD 1	-0.43619	-0.5235	0.05271	0.0958	-0.0635	0.004
55	2175	1210	353.8	SLD 2	-0.43619	-0.5235	0.05271	0.0958	-0.0635	0.004
55	2175	1210	353.8	SLD 3	-0.35057	0.52273	0.03999	-0.0956	-0.0578	-0.0037
55	2175	1210	353.8	SLD 4	-0.35057	0.52273	0.03999	-0.0956	-0.0578	-0.0037
55	2175	1210	353.8	SLD 5	-0.35955	-1.74483	0.04013	0.3193	-0.0577	0.0132
55	2175	1210	353.8	SLD 6	-0.35955	-1.74483	0.04013	0.3193	-0.0577	0.0132
55	2175	1210	353.8	SLD 7	-0.07415	1.7425	-0.00226	-0.3186	-0.0388	-0.0124
55	2175	1210	353.8	SLD 8	-0.07415	1.7425	-0.00226	-0.3186	-0.0388	-0.0124
55	2175	1210	353.8	SLD 9	-0.20816	-1.7448	0.01662	0.3193	-0.0471	0.0132
55	2175	1210	353.8	SLD 10	-0.20816	-1.7448	0.01662	0.3193	-0.0471	0.0132
55	2175	1210	353.8	SLD 11	0.07723	1.7425	-0.02577	-0.3186	-0.0282	-0.0123
55	2175	1210	353.8	SLD 12	0.07723	1.7425	-0.02577	-0.3186	-0.0282	-0.0123
55	2175	1210	353.8	SLD 13	0.06846	-0.52335	-0.02567	0.0958	-0.028	0.0039
55	2175	1210	353.8	SLD 14	0.06846	-0.52335	-0.02567	0.0958	-0.028	0.0039
55	2175	1210	353.8	SLD 15	0.15402	0.52269	-0.03837	-0.0956	-0.0224	-0.0037
55	2175	1210	353.8	SLD 16	0.15402	0.52269	-0.03837	-0.0956	-0.0224	-0.0037
55	2175	1210	353.8	SLV 1	-0.8993	-1.34481	0.12417	0.2461	-0.0957	0.0102
55	2175	1210	353.8	SLV 2	-0.8993	-1.34481	0.12417	0.2461	-0.0957	0.0102
55	2175	1210	353.8	SLV 3	-0.67931	1.34288	0.0915	-0.2455	-0.0811	-0.0096
55	2175	1210	353.8	SLV 4	-0.67931	1.34288	0.0915	-0.2455	-0.0811	-0.0096
55	2175	1210	353.8	SLV 5	-0.7024	-4.48235	0.09186	0.8202	-0.0808	0.0339
55	2175	1210	353.8	SLV 6	-0.7024	-4.48235	0.09186	0.8202	-0.0808	0.0339
55	2175	1210	353.8	SLV 7	0.03084	4.47641	-0.01704	-0.8184	-0.0323	-0.0317
55	2175	1210	353.8	SLV 8	0.03084	4.47641	-0.01704	-0.8184	-0.0323	-0.0317

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
55	2175	1210	353.8	SLV 9	-0.31348	-4.48226	0.03146	0.8201	-0.0535	0.0338
55	2175	1210	353.8	SLV 10	-0.31348	-4.48226	0.03146	0.8201	-0.0535	0.0338
55	2175	1210	353.8	SLV 11	0.41972	4.4764	-0.07744	-0.8184	-0.005	-0.0317
55	2175	1210	353.8	SLV 12	0.41972	4.4764	-0.07744	-0.8184	-0.005	-0.0317
55	2175	1210	353.8	SLV 13	0.39711	-1.3445	-0.07716	0.246	-0.0047	0.0101
55	2175	1210	353.8	SLV 14	0.39711	-1.3445	-0.07716	0.246	-0.0047	0.0101
55	2175	1210	353.8	SLV 15	0.61698	1.34285	-0.10981	-0.2455	0.0098	-0.0095
55	2175	1210	353.8	SLV 16	0.61698	1.34285	-0.10981	-0.2455	0.0098	-0.0095
55	2175	1210	353.8	SLV FO 1	-0.8993	-1.34481	0.12417	0.2461	-0.0957	0.0102
55	2175	1210	353.8	SLV FO 2	-0.8993	-1.34481	0.12417	0.2461	-0.0957	0.0102
55	2175	1210	353.8	SLV FO 3	-0.67931	1.34288	0.0915	-0.2455	-0.0811	-0.0096
55	2175	1210	353.8	SLV FO 4	-0.67931	1.34288	0.0915	-0.2455	-0.0811	-0.0096
55	2175	1210	353.8	SLV FO 5	-0.7024	-4.48235	0.09186	0.8202	-0.0808	0.0339
55	2175	1210	353.8	SLV FO 6	-0.7024	-4.48235	0.09186	0.8202	-0.0808	0.0339
55	2175	1210	353.8	SLV FO 7	0.03084	4.47641	-0.01704	-0.8184	-0.0323	-0.0317
55	2175	1210	353.8	SLV FO 8	0.03084	4.47641	-0.01704	-0.8184	-0.0323	-0.0317
55	2175	1210	353.8	SLV FO 9	-0.31348	-4.48226	0.03146	0.8201	-0.0535	0.0338
55	2175	1210	353.8	SLV FO 10	-0.31348	-4.48226	0.03146	0.8201	-0.0535	0.0338
55	2175	1210	353.8	SLV FO 11	0.41972	4.4764	-0.07744	-0.8184	-0.005	-0.0317
55	2175	1210	353.8	SLV FO 12	0.41972	4.4764	-0.07744	-0.8184	-0.005	-0.0317
55	2175	1210	353.8	SLV FO 13	0.39711	-1.3445	-0.07716	0.246	-0.0047	0.0101
55	2175	1210	353.8	SLV FO 14	0.39711	-1.3445	-0.07716	0.246	-0.0047	0.0101
55	2175	1210	353.8	SLV FO 15	0.61698	1.34285	-0.10981	-0.2455	0.0098	-0.0095
55	2175	1210	353.8	SLV FO 16	0.61698	1.34285	-0.10981	-0.2455	0.0098	-0.0095
56	2110	210	362	SLU 1	-0.11907	0.00003	-0.04563	0	-0.0353	0
56	2110	210	362	SLU 2	0.00282	0.83151	-0.06692	-0.1248	0.0057	-0.0012
56	2110	210	362	SLU 3	0.17782	0.83158	-0.08758	-0.1248	0.0376	-0.0012
56	2110	210	362	SLU 4	0.17272	0.00018	-0.08007	0	0.0179	0
56	2110	210	362	SLU 5	0.24577	0.49894	-0.09284	-0.0749	0.0425	-0.0007
56	2110	210	362	SLU 6	-0.04116	0.83145	-0.05992	-0.1248	-0.0072	-0.0012
56	2110	210	362	SLU 7	0.1338	0.83159	-0.08058	-0.1248	0.0246	-0.0012
56	2110	210	362	SLU 8	0.12869	0.00015	-0.07307	0	0.0049	0
56	2110	210	362	SLU 9	0.20177	0.4989	-0.08584	-0.0749	0.0295	-0.0007
56	2110	210	362	SLU 10	-0.20708	0.00014	-0.03163	0	-0.0612	0
56	2110	210	362	SLU 11	-0.1339	0.49882	-0.04441	-0.0748	-0.0366	-0.0007
56	2110	210	362	SLU 12	-0.03207	0.00003	-0.0523	0	-0.0293	0
56	2110	210	362	SLU 13	0.04105	0.49894	-0.06507	-0.0749	-0.0047	-0.0007
56	2110	210	362	SLU 14	-0.16114	0.00008	-0.03902	0	-0.0475	0
56	2110	210	362	SLU 15	-0.03922	0.83145	-0.06031	-0.1248	-0.0065	-0.0012
56	2110	210	362	SLU 16	0.13573	0.83159	-0.08097	-0.1248	0.0254	-0.0012
56	2110	210	362	SLU 17	0.13063	0.00015	-0.07346	0	0.0057	0
56	2110	210	362	SLU 18	0.2037	0.4989	-0.08623	-0.0749	0.0303	-0.0007
56	2110	210	362	SLU 19	-0.08323	0.83144	-0.05332	-0.1248	-0.0194	-0.0012
56	2110	210	362	SLU 20	0.09171	0.83159	-0.07397	-0.1248	0.0125	-0.0012
56	2110	210	362	SLU 21	0.0866	0.00012	-0.06647	0	-0.0073	0
56	2110	210	362	SLU 22	0.15968	0.49896	-0.07924	-0.0749	0.0173	-0.0007
56	2110	210	362	SLU 23	-0.24916	0.00019	-0.02503	0	-0.0734	0
56	2110	210	362	SLU 24	-0.17597	0.49884	-0.0378	-0.0749	-0.0488	-0.0007
56	2110	210	362	SLU 25	-0.07416	0	-0.04569	0	-0.0415	0
56	2110	210	362	SLU 26	-0.00099	0.49887	-0.05846	-0.0749	-0.0169	-0.0007
56	2110	210	362	SLU 27	-0.15479	0.00005	-0.05932	0	-0.0459	0
56	2110	210	362	SLU 28	-0.03291	0.83151	-0.0806	-0.1248	-0.0049	-0.0012
56	2110	210	362	SLU 29	0.1421	0.83158	-0.10127	-0.1248	0.027	-0.0012
56	2110	210	362	SLU 30	0.13699	0.00018	-0.09376	0	0.0073	0
56	2110	210	362	SLU 31	0.21003	0.49894	-0.10653	-0.0749	0.0319	-0.0007
56	2110	210	362	SLU 32	-0.07688	0.83144	-0.07361	-0.1248	-0.0178	-0.0012
56	2110	210	362	SLU 33	0.09807	0.83158	-0.09427	-0.1248	0.014	-0.0012
56	2110	210	362	SLU 34	0.09296	0.00014	-0.08676	0	-0.0057	0
56	2110	210	362	SLU 35	0.16604	0.4989	-0.09953	-0.0749	0.0189	-0.0007
56	2110	210	362	SLU 36	-0.2428	0.00015	-0.04532	0	-0.0718	0
56	2110	210	362	SLU 37	-0.16962	0.49881	-0.0581	-0.0748	-0.0472	-0.0007
56	2110	210	362	SLU 38	-0.0678	0.00002	-0.06598	0	-0.0399	0
56	2110	210	362	SLU 39	0.00532	0.49893	-0.07876	-0.0749	-0.0153	-0.0007
56	2110	210	362	SLU 40	-0.19686	0.00009	-0.05271	0	-0.0581	0
56	2110	210	362	SLU 41	-0.07494	0.83144	-0.074	-0.1248	-0.0171	-0.0012
56	2110	210	362	SLU 42	0.10001	0.83158	-0.09466	-0.1248	0.0148	-0.0012
56	2110	210	362	SLU 43	0.0949	0.00014	-0.08715	0	-0.0049	0
56	2110	210	362	SLU 44	0.16798	0.4989	-0.09992	-0.0749	0.0197	-0.0007
56	2110	210	362	SLU 45	-0.11893	0.8314	-0.06701	-0.1248	-0.03	-0.0012
56	2110	210	362	SLU 46	0.056	0.83157	-0.08766	-0.1248	0.0019	-0.0012
56	2110	210	362	SLU 47	0.05087	0.00011	-0.08015	0	-0.0179	0
56	2110	210	362	SLU 48	0.12395	0.49896	-0.09292	-0.0749	0.0067	-0.0007
56	2110	210	362	SLU 49	-0.28488	0.0002	-0.03872	0	-0.084	0
56	2110	210	362	SLU 50	-0.21169	0.49883	-0.05149	-0.0749	-0.0594	-0.0007
56	2110	210	362	SLU 51	-0.10982	0.00002	-0.05938	0	-0.0521	0
56	2110	210	362	SLU 52	-0.0367	0.49886	-0.07215	-0.0749	-0.0275	-0.0007
56	2110	210	362	SLE RA 1	-0.14712	0.00007	-0.04122	0	-0.0434	0
56	2110	210	362	SLE RA 2	-0.06584	0.55429	-0.05542	-0.0832	-0.0161	-0.0008
56	2110	210	362	SLE RA 3	0.05079	0.55439	-0.06919	-0.0832	0.0052	-0.0008
56	2110	210	362	SLE RA 4	0.04738	0.00009	-0.06418	0	-0.008	0
56	2110	210	362	SLE RA 5	0.0961	0.3326	-0.0727	-0.0499	0.0084	-0.0005
56	2110	210	362	SLE RA 6	-0.09514	0.55424	-0.05076	-0.0832	-0.0247	-0.0008
56	2110	210	362	SLE RA 7	0.02147	0.55435	-0.06453	-0.0832	-0.0035	-0.0008
56	2110	210	362	SLE RA 8	0.01803	0.00007	-0.05952	0	-0.0166	0
56	2110	210	362	SLE RA 9	0.06676	0.33264	-0.06803	-0.0499	-0.0002	-0.0005
56	2110	210	362	SLE RA 10	-0.20579	0.00014	-0.03189	0	-0.0607	0
56	2110	210	362	SLE RA 11	-0.157	0.33256	-0.04041	-0.0499	-0.0443	-0.0005
56	2110	210	362	SLE RA 12	-0.08909	0.00002	-0.04567	0	-0.0395	0
56	2110	210	362	SLE RA 13	-0.04035	0.33257	-0.05419	-0.0499	-0.0231	-0.0005
56	2110	210	362	SLE FR 1	-0.14712	0.00007	-0.04122	0	-0.0434	0
56	2110	210	362	SLE FR 2	-0.13085	0.11086	-0.04406	-0.0166	-0.038	-0.0002
56	2110	210	362	SLE FR 3	-0.10821	0.00003	-0.04582	0	-0.0364	0
56	2110	210	362	SLE FR 4	-0.15885	0.00008	-0.03936	0	-0.0469	0
56	2110	210	362	SLE QP 1	-0.14712	0.00007	-0.04122	0	-0.0434	0
56	2110	210	362	SLD 1	-0.35878	-0.54094	-0.02526	0.0957	-0.0583	0.0045
56	2110	210	362	SLD 2	-0.35878	-0.54094	-0.02526	0.0957	-0.0583	0.0045
56	2110	210	362	SLD 3	-0.44521	0.54194	-0.01897	-0.0959	-0.064	-0.0046
56	2110	210	362	SLD 4	-0.44521	0.54194	-0.01897	-0.0959	-0.064	-0.0046
56	2110	210	362	SLD 5	-0.07966	-1.8031	-0.04596	0.3189	-0.0393	0.0149
56	2110	210	362	SLD 6	-0.07966	-1.8031	-0.04596	0.3189	-0.0393	0.0149
56	2110	210	362	SLD 7	-0.36774	1.80626	-0.025	-0.3195	-0.0582	-0.0154
56	2110	210	362	SLD 8	-0.36774	1.80626	-0.025	-0.3195	-0.0582	-0.0154
56	2110	210	362	SLD 9	0.07323	-1.80308	-0.05742	0.3189	-0.0287	0.0149

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
56	2110	210	362	SLD 10	0.07323	-1.80308	-0.05742	0.3189	-0.0287	0.0149
56	2110	210	362	SLD 11	-0.21483	1.80622	-0.03646	-0.3195	-0.0476	-0.0154
56	2110	210	362	SLD 12	-0.21483	1.80622	-0.03646	-0.3195	-0.0476	-0.0154
56	2110	210	362	SLD 13	0.15084	-0.54085	-0.06346	0.0957	-0.0229	0.0045
56	2110	210	362	SLD 14	0.15084	-0.54085	-0.06346	0.0957	-0.0229	0.0045
56	2110	210	362	SLD 15	0.06448	0.54177	-0.05718	-0.0958	-0.0286	-0.0046
56	2110	210	362	SLD 16	0.06448	0.54177	-0.05718	-0.0958	-0.0286	-0.0046
56	2110	210	362	SLV 1	-0.69085	-1.38964	-0.00023	0.2458	-0.0817	0.0116
56	2110	210	362	SLV 2	-0.69085	-1.38964	-0.00023	0.2458	-0.0817	0.0116
56	2110	210	362	SLV 3	-0.9129	1.39217	0.01593	-0.2463	-0.0962	-0.0119
56	2110	210	362	SLV 4	-0.9129	1.39217	0.01593	-0.2463	-0.0962	-0.0119
56	2110	210	362	SLV 5	0.02625	-4.63207	-0.0534	0.8192	-0.0329	0.0383
56	2110	210	362	SLV 6	0.02625	-4.63207	-0.0534	0.8192	-0.0329	0.0383
56	2110	210	362	SLV 7	-0.71387	4.64016	0.00046	-0.8209	-0.0814	-0.0396
56	2110	210	362	SLV 8	-0.71387	4.64016	0.00046	-0.8209	-0.0814	-0.0396
56	2110	210	362	SLV 9	0.41903	-4.63202	-0.08283	0.8192	-0.0056	0.0383
56	2110	210	362	SLV 10	0.41903	-4.63202	-0.08283	0.8192	-0.0056	0.0383
56	2110	210	362	SLV 11	-0.32106	4.64005	-0.02898	-0.8209	-0.0541	-0.0396
56	2110	210	362	SLV 12	-0.32106	4.64005	-0.02898	-0.8209	-0.0541	-0.0396
56	2110	210	362	SLV 13	0.61839	-1.38948	-0.09835	0.2457	0.0093	0.0115
56	2110	210	362	SLV 14	0.61839	-1.38948	-0.09835	0.2457	0.0093	0.0115
56	2110	210	362	SLV 15	0.39646	1.39182	-0.0822	-0.2462	-0.0052	-0.0119
56	2110	210	362	SLV 16	0.39646	1.39182	-0.0822	-0.2462	-0.0052	-0.0119
56	2110	210	362	SLV FO 1	-0.69085	-1.38964	-0.00023	0.2458	-0.0817	0.0116
56	2110	210	362	SLV FO 2	-0.69085	-1.38964	-0.00023	0.2458	-0.0817	0.0116
56	2110	210	362	SLV FO 3	-0.9129	1.39217	0.01593	-0.2463	-0.0962	-0.0119
56	2110	210	362	SLV FO 4	-0.9129	1.39217	0.01593	-0.2463	-0.0962	-0.0119
56	2110	210	362	SLV FO 5	0.02625	-4.63207	-0.0534	0.8192	-0.0329	0.0383
56	2110	210	362	SLV FO 6	0.02625	-4.63207	-0.0534	0.8192	-0.0329	0.0383
56	2110	210	362	SLV FO 7	-0.71387	4.64016	0.00046	-0.8209	-0.0814	-0.0396
56	2110	210	362	SLV FO 8	-0.71387	4.64016	0.00046	-0.8209	-0.0814	-0.0396
56	2110	210	362	SLV FO 9	0.41903	-4.63202	-0.08283	0.8192	-0.0056	0.0383
56	2110	210	362	SLV FO 10	0.41903	-4.63202	-0.08283	0.8192	-0.0056	0.0383
56	2110	210	362	SLV FO 11	-0.32106	4.64005	-0.02898	-0.8209	-0.0541	-0.0396
56	2110	210	362	SLV FO 12	-0.32106	4.64005	-0.02898	-0.8209	-0.0541	-0.0396
56	2110	210	362	SLV FO 13	0.61839	-1.38948	-0.09835	0.2457	0.0093	0.0115
56	2110	210	362	SLV FO 14	0.61839	-1.38948	-0.09835	0.2457	0.0093	0.0115
56	2110	210	362	SLV FO 15	0.39646	1.39182	-0.0822	-0.2462	-0.0052	-0.0119
56	2110	210	362	SLV FO 16	0.39646	1.39182	-0.0822	-0.2462	-0.0052	-0.0119
57	2110	710	362	SLU 1	-0.12556	0	-0.04492	0	-0.0401	0
57	2110	710	362	SLU 2	0.05228	0.83012	-0.08255	-0.1451	0.0375	0.0018
57	2110	710	362	SLU 3	0.26022	0.83038	-0.11303	-0.1451	0.0914	0.0018
57	2110	710	362	SLU 4	0.22094	0	-0.09571	0	0.0498	0
57	2110	710	362	SLU 5	0.32774	0.4984	-0.1183	-0.0871	0.0963	0.0011
57	2110	710	362	SLU 6	-0.00088	0.83	-0.07112	-0.145	0.0139	0.0018
57	2110	710	362	SLU 7	0.20712	0.83033	-0.10161	-0.1451	0.0678	0.0018
57	2110	710	362	SLU 8	0.16784	0	-0.08429	0	0.0262	0
57	2110	710	362	SLU 9	0.27461	0.49831	-0.10688	-0.0871	0.0727	0.0011
57	2110	710	362	SLU 10	-0.23187	0	-0.02207	0	-0.0873	0
57	2110	710	362	SLU 11	-0.12517	0.49786	-0.04465	-0.087	-0.0408	0.0011
57	2110	710	362	SLU 12	-0.02383	0	-0.05256	0	-0.0334	0
57	2110	710	362	SLU 13	0.08287	0.49817	-0.07514	-0.0871	0.0132	0.0011
57	2110	710	362	SLU 14	-0.1764	0	-0.03416	0	-0.0623	0
57	2110	710	362	SLU 15	0.00143	0.83	-0.07179	-0.145	0.0153	0.0018
57	2110	710	362	SLU 16	0.20943	0.83033	-0.10228	-0.1451	0.0692	0.0018
57	2110	710	362	SLU 17	0.17014	0	-0.08496	0	0.0276	0
57	2110	710	362	SLU 18	0.27692	0.49831	-0.10754	-0.0871	0.0742	0.0011
57	2110	710	362	SLU 19	-0.05169	0.82994	-0.06037	-0.145	-0.0083	0.0018
57	2110	710	362	SLU 20	0.15633	0.83028	-0.09086	-0.1451	0.0456	0.0018
57	2110	710	362	SLU 21	0.11705	0	-0.07354	0	0.004	0
57	2110	710	362	SLU 22	0.22378	0.49831	-0.09612	-0.0871	0.0506	0.0011
57	2110	710	362	SLU 23	-0.28272	0	-0.01131	0	-0.1095	0
57	2110	710	362	SLU 24	-0.17601	0.49784	-0.03389	-0.087	-0.0629	0.0011
57	2110	710	362	SLU 25	-0.07462	0	-0.04181	0	-0.0555	0
57	2110	710	362	SLU 26	0.03202	0.49805	-0.06438	-0.087	-0.009	0.0011
57	2110	710	362	SLU 27	-0.16323	0	-0.05839	0	-0.0521	0
57	2110	710	362	SLU 28	0.01463	0.8301	-0.09603	-0.1451	0.0254	0.0018
57	2110	710	362	SLU 29	0.22258	0.83036	-0.12651	-0.1451	0.0794	0.0018
57	2110	710	362	SLU 30	0.18329	0	-0.10919	0	0.0378	0
57	2110	710	362	SLU 31	0.2901	0.49839	-0.13177	-0.0871	0.0843	0.0011
57	2110	710	362	SLU 32	-0.03853	0.82998	-0.0846	-0.145	0.0018	0.0018
57	2110	710	362	SLU 33	0.16947	0.83031	-0.11509	-0.1451	0.0558	0.0018
57	2110	710	362	SLU 34	0.13019	0	-0.09777	0	0.0142	0
57	2110	710	362	SLU 35	0.23696	0.4983	-0.12035	-0.0871	0.0607	0.0011
57	2110	710	362	SLU 36	-0.26954	0	-0.03554	0	-0.0993	0
57	2110	710	362	SLU 37	-0.16283	0.49784	-0.05812	-0.087	-0.0528	0.0011
57	2110	710	362	SLU 38	-0.06146	0	-0.06603	0	-0.0454	0
57	2110	710	362	SLU 39	0.04523	0.49815	-0.08861	-0.0871	0.0011	0.0011
57	2110	710	362	SLU 40	-0.21407	0	-0.04764	0	-0.0743	0
57	2110	710	362	SLU 41	-0.03622	0.82998	-0.08527	-0.145	0.0033	0.0018
57	2110	710	362	SLU 42	0.17178	0.83032	-0.11575	-0.1451	0.0572	0.0018
57	2110	710	362	SLU 43	0.1325	0	-0.09844	0	0.0156	0
57	2110	710	362	SLU 44	0.23927	0.4983	-0.12102	-0.0871	0.0621	0.0011
57	2110	710	362	SLU 45	-0.08938	0.82989	-0.07385	-0.145	-0.0203	0.0018
57	2110	710	362	SLU 46	0.11867	0.83025	-0.10433	-0.1451	0.0336	0.0018
57	2110	710	362	SLU 47	0.0794	0	-0.08702	0	-0.008	0
57	2110	710	362	SLU 48	0.18614	0.4983	-0.1096	-0.0871	0.0385	0.0011
57	2110	710	362	SLU 49	-0.32039	0	-0.02479	0	-0.1215	0
57	2110	710	362	SLU 50	-0.21367	0.49782	-0.04737	-0.087	-0.075	0.0011
57	2110	710	362	SLU 51	-0.11239	0	-0.05527	0	-0.0676	0
57	2110	710	362	SLU 52	-0.00563	0.49803	-0.07786	-0.087	-0.021	0.0011
57	2110	710	362	SLE RA 1	-0.15946	0	-0.03775	0	-0.0549	0
57	2110	710	362	SLE RA 2	-0.04088	0.55331	-0.06284	-0.0967	-0.0032	0.0012
57	2110	710	362	SLE RA 3	0.09779	0.55354	-0.08316	-0.0967	0.0328	0.0012
57	2110	710	362	SLE RA 4	0.0716	0	-0.07161	0	0.0051	0
57	2110	710	362	SLE RA 5	0.14278	0.3322	-0.08667	-0.0581	0.0361	0.0007
57	2110	710	362	SLE RA 6	-0.07635	0.55322	-0.05522	-0.0967	-0.0189	0.0012
57	2110	710	362	SLE RA 7	0.06236	0.55346	-0.07554	-0.0967	0.0171	0.0012
57	2110	710	362	SLE RA 8	0.0362	0	-0.064	0	-0.0107	0
57	2110	710	362	SLE RA 9	0.10736	0.3322	-0.07906	-0.0581	0.0203	0.0007

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
57	2110	710	362	SLE RA 10	-0.23033	0	-0.02251	0	-0.0864	0
57	2110	710	362	SLE RA 11	-0.15919	0.33188	-0.03757	-0.058	-0.0553	0.0007
57	2110	710	362	SLE RA 12	-0.09167	0	-0.04284	0	-0.0504	0
57	2110	710	362	SLE RA 13	-0.02049	0.33201	-0.05789	-0.058	-0.0194	0.0007
57	2110	710	362	SLE FR 1	-0.15946	0	-0.03775	0	-0.0549	0
57	2110	710	362	SLE FR 2	-0.13574	0.11061	-0.04277	-0.0193	-0.0445	0.0002
57	2110	710	362	SLE FR 3	-0.11324	0	-0.04452	0	-0.0429	0
57	2110	710	362	SLE FR 4	-0.17363	0	-0.0347	0	-0.0612	0
57	2110	710	362	SLE QP 1	-0.15946	0	-0.03775	0	-0.0549	0
57	2110	710	362	SLD 1	-0.43842	-0.54131	-0.01676	0.0957	-0.0745	0.0045
57	2110	710	362	SLD 2	-0.43842	-0.54131	-0.01676	0.0957	-0.0745	0.0045
57	2110	710	362	SLD 3	-0.43842	0.54131	-0.01676	-0.0957	-0.0745	-0.0045
57	2110	710	362	SLD 4	-0.43842	0.54131	-0.01676	-0.0957	-0.0745	-0.0045
57	2110	710	362	SLD 5	-0.24317	-1.80475	-0.03144	0.3192	-0.0608	0.0151
57	2110	710	362	SLD 6	-0.24317	-1.80475	-0.03144	0.3192	-0.0608	0.0151
57	2110	710	362	SLD 7	-0.24317	1.80475	-0.03144	-0.3192	-0.0608	-0.0151
57	2110	710	362	SLD 8	-0.24317	1.80475	-0.03144	-0.3192	-0.0608	-0.0151
57	2110	710	362	SLD 9	-0.07579	-1.80479	-0.04403	0.3192	-0.049	0.0151
57	2110	710	362	SLD 10	-0.07579	-1.80479	-0.04403	0.3192	-0.049	0.0151
57	2110	710	362	SLD 11	-0.07579	1.80479	-0.04403	-0.3192	-0.049	-0.0151
57	2110	710	362	SLD 12	-0.07579	1.80479	-0.04403	-0.3192	-0.049	-0.0151
57	2110	710	362	SLD 13	0.11955	-0.54141	-0.05874	0.0958	-0.0353	0.0045
57	2110	710	362	SLD 14	0.11955	-0.54141	-0.05874	0.0958	-0.0353	0.0045
57	2110	710	362	SLD 15	0.11955	0.54141	-0.05874	-0.0958	-0.0353	-0.0045
57	2110	710	362	SLD 16	0.11955	0.54141	-0.05874	-0.0958	-0.0353	-0.0045
57	2110	710	362	SLV 1	-0.8761	-1.39068	0.01618	0.246	-0.1052	0.0117
57	2110	710	362	SLV 2	-0.8761	-1.39068	0.01618	0.246	-0.1052	0.0117
57	2110	710	362	SLV 3	-0.8761	1.39068	0.01618	-0.246	-0.1052	-0.0117
57	2110	710	362	SLV 4	-0.8761	1.39068	0.01618	-0.246	-0.1052	-0.0117
57	2110	710	362	SLV 5	-0.37462	-4.63638	-0.02153	0.8201	-0.07	0.0389
57	2110	710	362	SLV 6	-0.37462	-4.63638	-0.02153	0.8201	-0.07	0.0389
57	2110	710	362	SLV 7	-0.37462	4.63638	-0.02153	-0.8201	-0.07	-0.0389
57	2110	710	362	SLV 8	-0.37462	4.63638	-0.02153	-0.8201	-0.07	-0.0389
57	2110	710	362	SLV 9	0.05536	-4.63648	-0.05388	0.8201	-0.0398	0.0389
57	2110	710	362	SLV 10	0.05536	-4.63648	-0.05388	0.8201	-0.0398	0.0389
57	2110	710	362	SLV 11	0.05536	4.63648	-0.05388	-0.8201	-0.0398	-0.0389
57	2110	710	362	SLV 12	0.05536	4.63648	-0.05388	-0.8201	-0.0398	-0.0389
57	2110	710	362	SLV 13	0.55718	-1.39101	-0.09166	0.246	-0.0046	0.0117
57	2110	710	362	SLV 14	0.55718	-1.39101	-0.09166	0.246	-0.0046	0.0117
57	2110	710	362	SLV 15	0.55718	1.39101	-0.09166	-0.246	-0.0046	-0.0117
57	2110	710	362	SLV 16	0.55718	1.39101	-0.09166	-0.246	-0.0046	-0.0117
57	2110	710	362	SLV FO 1	-0.8761	-1.39068	0.01618	0.246	-0.1052	0.0117
57	2110	710	362	SLV FO 2	-0.8761	-1.39068	0.01618	0.246	-0.1052	0.0117
57	2110	710	362	SLV FO 3	-0.8761	1.39068	0.01618	-0.246	-0.1052	-0.0117
57	2110	710	362	SLV FO 4	-0.8761	1.39068	0.01618	-0.246	-0.1052	-0.0117
57	2110	710	362	SLV FO 5	-0.37462	-4.63638	-0.02153	0.8201	-0.07	0.0389
57	2110	710	362	SLV FO 6	-0.37462	-4.63638	-0.02153	0.8201	-0.07	0.0389
57	2110	710	362	SLV FO 7	-0.37462	4.63638	-0.02153	-0.8201	-0.07	-0.0389
57	2110	710	362	SLV FO 8	-0.37462	4.63638	-0.02153	-0.8201	-0.07	-0.0389
57	2110	710	362	SLV FO 9	0.05536	-4.63648	-0.05388	0.8201	-0.0398	0.0389
57	2110	710	362	SLV FO 10	0.05536	-4.63648	-0.05388	0.8201	-0.0398	0.0389
57	2110	710	362	SLV FO 11	0.05536	4.63648	-0.05388	-0.8201	-0.0398	-0.0389
57	2110	710	362	SLV FO 12	0.05536	4.63648	-0.05388	-0.8201	-0.0398	-0.0389
57	2110	710	362	SLV FO 13	0.55718	-1.39101	-0.09166	0.246	-0.0046	0.0117
57	2110	710	362	SLV FO 14	0.55718	-1.39101	-0.09166	0.246	-0.0046	0.0117
57	2110	710	362	SLV FO 15	0.55718	1.39101	-0.09166	-0.246	-0.0046	-0.0117
57	2110	710	362	SLV FO 16	0.55718	1.39101	-0.09166	-0.246	-0.0046	-0.0117
58	2110	1210	362	SLU 1	-0.11907	-0.00003	-0.04563	0	-0.0353	0
58	2110	1210	362	SLU 2	0.05357	0.82914	-0.07057	-0.1449	0.009	0.0019
58	2110	1210	362	SLU 3	0.22868	0.82927	-0.09124	-0.1449	0.0409	0.0019
58	2110	1210	362	SLU 4	0.17272	-0.00018	-0.08007	0	0.0179	0
58	2110	1210	362	SLU 5	0.27631	0.4976	-0.09504	-0.0869	0.0444	0.0012
58	2110	1210	362	SLU 6	0.00954	0.82906	-0.06357	-0.1449	-0.004	0.0019
58	2110	1210	362	SLU 7	0.18464	0.82925	-0.08424	-0.1449	0.0279	0.0019
58	2110	1210	362	SLU 8	0.12869	-0.00015	-0.07307	0	0.0049	0
58	2110	1210	362	SLU 9	0.23228	0.49755	-0.08804	-0.0869	0.0315	0.0012
58	2110	1210	362	SLU 10	-0.20708	-0.00014	-0.03163	0	-0.0612	0
58	2110	1210	362	SLU 11	-0.10353	0.49736	-0.0466	-0.0869	-0.0347	0.0011
58	2110	1210	362	SLU 12	-0.03207	-0.00003	-0.0523	0	-0.0293	0
58	2110	1210	362	SLU 13	0.07154	0.49753	-0.06726	-0.0869	-0.0028	0.0012
58	2110	1210	362	SLU 14	-0.16114	-0.00008	-0.03902	0	-0.0475	0
58	2110	1210	362	SLU 15	0.01148	0.82906	-0.06397	-0.1449	-0.0032	0.0019
58	2110	1210	362	SLU 16	0.18658	0.82925	-0.08463	-0.1449	0.0287	0.0019
58	2110	1210	362	SLU 17	0.13063	-0.00015	-0.07346	0	0.0057	0
58	2110	1210	362	SLU 18	0.23421	0.49755	-0.08843	-0.0869	0.0322	0.0012
58	2110	1210	362	SLU 19	-0.03256	0.82904	-0.05697	-0.1449	-0.0162	0.0019
58	2110	1210	362	SLU 20	0.14254	0.82924	-0.07764	-0.1449	0.0157	0.0019
58	2110	1210	362	SLU 21	0.0866	-0.00012	-0.06647	0	-0.0073	0
58	2110	1210	362	SLU 22	0.19021	0.49759	-0.08144	-0.0869	0.0193	0.0012
58	2110	1210	362	SLU 23	-0.24916	-0.00019	-0.02503	0	-0.0734	0
58	2110	1210	362	SLU 24	-0.1456	0.49737	-0.03999	-0.0869	-0.0469	0.0011
58	2110	1210	362	SLU 25	-0.07416	0	-0.04569	0	-0.0415	0
58	2110	1210	362	SLU 26	0.02944	0.49745	-0.06066	-0.0869	-0.015	0.0012
58	2110	1210	362	SLU 27	-0.15479	-0.00005	-0.05932	0	-0.0459	0
58	2110	1210	362	SLU 28	0.01784	0.82913	-0.08426	-0.1449	-0.0016	0.0019
58	2110	1210	362	SLU 29	0.19294	0.82926	-0.10493	-0.1449	0.0303	0.0019
58	2110	1210	362	SLU 30	0.13699	-0.00018	-0.09376	0	0.0073	0
58	2110	1210	362	SLU 31	0.24058	0.4976	-0.10873	-0.0869	0.0338	0.0012
58	2110	1210	362	SLU 32	-0.02619	0.82905	-0.07726	-0.1449	-0.0146	0.0019
58	2110	1210	362	SLU 33	0.14891	0.82925	-0.09793	-0.1449	0.0173	0.0019
58	2110	1210	362	SLU 34	0.09296	-0.00014	-0.08676	0	-0.0057	0
58	2110	1210	362	SLU 35	0.19654	0.49755	-0.10173	-0.0869	0.0209	0.0012
58	2110	1210	362	SLU 36	-0.2428	-0.00015	-0.04532	0	-0.0718	0
58	2110	1210	362	SLU 37	-0.13926	0.49735	-0.06029	-0.0869	-0.0453	0.0011
58	2110	1210	362	SLU 38	-0.0678	-0.00002	-0.06598	0	-0.0399	0
58	2110	1210	362	SLU 39	0.0358	0.49753	-0.08095	-0.0869	-0.0134	0.0012
58	2110	1210	362	SLU 40	-0.19686	-0.00009	-0.05271	0	-0.0581	0
58	2110	1210	362	SLU 41	-0.02426	0.82905	-0.07765	-0.1449	-0.0138	0.0019
58	2110	1210	362	SLU 42	0.15085	0.82925	-0.09832	-0.1449	0.0181	0.0019
58	2110	1210	362	SLU 43	0.0949	-0.00014	-0.08715	0	-0.0049	0
58	2110	1210	362	SLU 44	0.19848	0.49755	-0.10212	-0.0869	0.0217	0.0012
58	2110	1210	362	SLU 45	-0.06828	0.82899	-0.07065	-0.1448	-0.0268	0.0019
58	2110	1210	362	SLU 46	0.10681	0.82922	-0.09132	-0.1449	0.0051	0.0019

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
58	2110	1210	362	SLU 47	0.05087	-0.00011	-0.08015	0	-0.0179	0
58	2110	1210	362	SLU 48	0.15448	0.49758	-0.09512	-0.0869	0.0087	0.0012
58	2110	1210	362	SLU 49	-0.28488	-0.0002	-0.03872	0	-0.084	0
58	2110	1210	362	SLU 50	-0.18133	0.49736	-0.05368	-0.0869	-0.0574	0.0011
58	2110	1210	362	SLU 51	-0.10982	-0.00002	-0.05938	0	-0.0521	0
58	2110	1210	362	SLU 52	-0.00629	0.49743	-0.07434	-0.0869	-0.0255	0.0012
58	2110	1210	362	SLE RA 1	-0.14712	-0.00007	-0.04122	0	-0.0434	0
58	2110	1210	362	SLE RA 2	-0.03205	0.55269	-0.05785	-0.0966	-0.0139	0.0013
58	2110	1210	362	SLE RA 3	0.08468	0.55283	-0.07163	-0.0966	0.0074	0.0013
58	2110	1210	362	SLE RA 4	0.04738	-0.00009	-0.06418	0	-0.008	0
58	2110	1210	362	SLE RA 5	0.11644	0.3317	-0.07416	-0.058	0.0097	0.0008
58	2110	1210	362	SLE RA 6	-0.0614	0.55263	-0.05319	-0.0966	-0.0225	0.0013
58	2110	1210	362	SLE RA 7	0.05533	0.55278	-0.06696	-0.0966	-0.0013	0.0013
58	2110	1210	362	SLE RA 8	0.01803	-0.00007	-0.05952	0	-0.0166	0
58	2110	1210	362	SLE RA 9	0.08711	0.33172	-0.0695	-0.058	0.0011	0.0008
58	2110	1210	362	SLE RA 10	-0.20579	-0.00014	-0.03189	0	-0.0607	0
58	2110	1210	362	SLE RA 11	-0.13676	0.33157	-0.04187	-0.0579	-0.043	0.0007
58	2110	1210	362	SLE RA 12	-0.08909	-0.00002	-0.04567	0	-0.0395	0
58	2110	1210	362	SLE RA 13	-0.02007	0.33162	-0.05565	-0.0579	-0.0217	0.0008
58	2110	1210	362	SLE FR 1	-0.14712	-0.00007	-0.04122	0	-0.0434	0
58	2110	1210	362	SLE FR 2	-0.12411	0.11052	-0.04455	-0.0193	-0.0375	0.0002
58	2110	1210	362	SLE FR 3	-0.10821	-0.00003	-0.04582	0	-0.0364	0
58	2110	1210	362	SLE FR 4	-0.15885	-0.00008	-0.03936	0	-0.0469	0
58	2110	1210	362	SLE QP 1	-0.14712	-0.00007	-0.04122	0	-0.0434	0
58	2110	1210	362	SLD 1	-0.44521	-0.54194	-0.01897	0.0959	-0.064	0.0046
58	2110	1210	362	SLD 2	-0.44521	-0.54194	-0.01897	0.0959	-0.064	0.0046
58	2110	1210	362	SLD 3	-0.35878	0.54094	-0.02526	-0.0957	-0.0583	-0.0045
58	2110	1210	362	SLD 4	-0.35878	0.54094	-0.02526	-0.0957	-0.0583	-0.0045
58	2110	1210	362	SLD 5	-0.36774	-1.80626	-0.025	0.3195	-0.0582	0.0154
58	2110	1210	362	SLD 6	-0.36774	-1.80626	-0.025	0.3195	-0.0582	0.0154
58	2110	1210	362	SLD 7	-0.07966	1.8031	-0.04596	-0.3189	-0.0393	-0.0149
58	2110	1210	362	SLD 8	-0.07966	1.8031	-0.04596	-0.3189	-0.0393	-0.0149
58	2110	1210	362	SLD 9	-0.21483	-1.80622	-0.03646	0.3195	-0.0476	0.0154
58	2110	1210	362	SLD 10	-0.21483	-1.80622	-0.03646	0.3195	-0.0476	0.0154
58	2110	1210	362	SLD 11	0.07323	1.80308	-0.05742	-0.3189	-0.0287	-0.0149
58	2110	1210	362	SLD 12	0.07323	1.80308	-0.05742	-0.3189	-0.0287	-0.0149
58	2110	1210	362	SLD 13	0.06448	-0.54177	-0.05718	0.0958	-0.0286	0.0046
58	2110	1210	362	SLD 14	0.06448	-0.54177	-0.05718	0.0958	-0.0286	0.0046
58	2110	1210	362	SLD 15	0.15084	0.54085	-0.06346	-0.0957	-0.0229	-0.0045
58	2110	1210	362	SLD 16	0.15084	0.54085	-0.06346	-0.0957	-0.0229	-0.0045
58	2110	1210	362	SLV 1	-0.9129	-1.39217	0.01593	0.2463	-0.0962	0.0119
58	2110	1210	362	SLV 2	-0.9129	-1.39217	0.01593	0.2463	-0.0962	0.0119
58	2110	1210	362	SLV 3	-0.69085	1.38964	-0.00023	-0.2458	-0.0817	-0.0116
58	2110	1210	362	SLV 4	-0.69085	1.38964	-0.00023	-0.2458	-0.0817	-0.0116
58	2110	1210	362	SLV 5	-0.71387	-4.64016	0.00046	0.8209	-0.0814	0.0396
58	2110	1210	362	SLV 6	-0.71387	-4.64016	0.00046	0.8209	-0.0814	0.0396
58	2110	1210	362	SLV 7	0.02625	4.63207	-0.0534	-0.8192	-0.0329	-0.0383
58	2110	1210	362	SLV 8	0.02625	4.63207	-0.0534	-0.8192	-0.0329	-0.0383
58	2110	1210	362	SLV 9	-0.32106	-4.64005	-0.02898	0.8209	-0.0541	0.0396
58	2110	1210	362	SLV 10	-0.32106	-4.64005	-0.02898	0.8209	-0.0541	0.0396
58	2110	1210	362	SLV 11	0.41903	4.63202	-0.08283	-0.8192	-0.0056	-0.0383
58	2110	1210	362	SLV 12	0.41903	4.63202	-0.08283	-0.8192	-0.0056	-0.0383
58	2110	1210	362	SLV 13	0.39646	-1.39182	-0.0822	0.2462	-0.0052	0.0119
58	2110	1210	362	SLV 14	0.39646	-1.39182	-0.0822	0.2462	-0.0052	0.0119
58	2110	1210	362	SLV 15	0.61839	1.38948	-0.09835	-0.2457	0.0093	-0.0115
58	2110	1210	362	SLV 16	0.61839	1.38948	-0.09835	-0.2457	0.0093	-0.0115
58	2110	1210	362	SLV FO 1	-0.9129	-1.39217	0.01593	0.2463	-0.0962	0.0119
58	2110	1210	362	SLV FO 2	-0.9129	-1.39217	0.01593	0.2463	-0.0962	0.0119
58	2110	1210	362	SLV FO 3	-0.69085	1.38964	-0.00023	-0.2458	-0.0817	-0.0116
58	2110	1210	362	SLV FO 4	-0.69085	1.38964	-0.00023	-0.2458	-0.0817	-0.0116
58	2110	1210	362	SLV FO 5	-0.71387	-4.64016	0.00046	0.8209	-0.0814	0.0396
58	2110	1210	362	SLV FO 6	-0.71387	-4.64016	0.00046	0.8209	-0.0814	0.0396
58	2110	1210	362	SLV FO 7	0.02625	4.63207	-0.0534	-0.8192	-0.0329	-0.0383
58	2110	1210	362	SLV FO 8	0.02625	4.63207	-0.0534	-0.8192	-0.0329	-0.0383
58	2110	1210	362	SLV FO 9	-0.32106	-4.64005	-0.02898	0.8209	-0.0541	0.0396
58	2110	1210	362	SLV FO 10	-0.32106	-4.64005	-0.02898	0.8209	-0.0541	0.0396
58	2110	1210	362	SLV FO 11	0.41903	4.63202	-0.08283	-0.8192	-0.0056	-0.0383
58	2110	1210	362	SLV FO 12	0.41903	4.63202	-0.08283	-0.8192	-0.0056	-0.0383
58	2110	1210	362	SLV FO 13	0.39646	-1.39182	-0.0822	0.2462	-0.0052	0.0119
58	2110	1210	362	SLV FO 14	0.39646	-1.39182	-0.0822	0.2462	-0.0052	0.0119
58	2110	1210	362	SLV FO 15	0.61839	1.38948	-0.09835	-0.2457	0.0093	-0.0115
58	2110	1210	362	SLV FO 16	0.61839	1.38948	-0.09835	-0.2457	0.0093	-0.0115
59	2045	210	370.2	SLU 1	-0.12427	0.00004	-0.08686	0	-0.0355	0
59	2045	210	370.2	SLU 2	0.00365	0.85085	-0.0603	-0.1185	0.0057	-0.0023
59	2045	210	370.2	SLU 3	0.18334	0.85093	-0.04379	-0.1186	0.0375	-0.0023
59	2045	210	370.2	SLU 4	0.17532	0.00023	-0.05934	0	0.0176	0
59	2045	210	370.2	SLU 5	0.25199	0.51054	-0.0434	-0.0711	0.0423	-0.0014
59	2045	210	370.2	SLU 6	-0.04223	0.85078	-0.06842	-0.1185	-0.0073	-0.0023
59	2045	210	370.2	SLU 7	0.13741	0.85093	-0.05191	-0.1186	0.0245	-0.0023
59	2045	210	370.2	SLU 8	0.12938	0.00019	-0.06746	0	0.0046	0
59	2045	210	370.2	SLU 9	0.20609	0.5105	-0.05152	-0.0711	0.0293	-0.0014
59	2045	210	370.2	SLU 10	-0.2161	0.00014	-0.1031	0	-0.0615	0
59	2045	210	370.2	SLU 11	-0.13929	0.51041	-0.08717	-0.0711	-0.0368	-0.0014
59	2045	210	370.2	SLU 12	-0.0364	0.00004	-0.08659	0	-0.0296	0
59	2045	210	370.2	SLU 13	0.04033	0.51054	-0.07065	-0.0711	-0.0049	-0.0014
59	2045	210	370.2	SLU 14	-0.16814	0.00009	-0.09448	0	-0.0477	0
59	2045	210	370.2	SLU 15	-0.04018	0.85078	-0.06792	-0.1185	-0.0065	-0.0023
59	2045	210	370.2	SLU 16	0.13946	0.85093	-0.0514	-0.1186	0.0253	-0.0023
59	2045	210	370.2	SLU 17	0.13143	0.00019	-0.06695	0	0.0054	0
59	2045	210	370.2	SLU 18	0.20814	0.5105	-0.05102	-0.0711	0.0301	-0.0014
59	2045	210	370.2	SLU 19	-0.0861	0.85077	-0.07604	-0.1185	-0.0195	-0.0023
59	2045	210	370.2	SLU 20	0.09353	0.85093	-0.05952	-0.1186	0.0123	-0.0023
59	2045	210	370.2	SLU 21	0.0855	0.00015	-0.07507	0	-0.0076	0
59	2045	210	370.2	SLU 22	0.1622	0.51056	-0.05914	-0.0711	0.0171	-0.0014
59	2045	210	370.2	SLU 23	-0.25997	0.00019	-0.11072	0	-0.0737	0
59	2045	210	370.2	SLU 24	-0.18316	0.51044	-0.09478	-0.0711	-0.049	-0.0014
59	2045	210	370.2	SLU 25	-0.08029	0	-0.0942	0	-0.0419	0
59	2045	210	370.2	SLU 26	-0.00349	0.51047	-0.07827	-0.0711	-0.0171	-0.0014
59	2045	210	370.2	SLU 27	-0.16156	0.00005	-0.11292	0	-0.0461	0
59	2045	210	370.2	SLU 28	-0.03364	0.85084	-0.08636	-0.1185	-0.0049	-0.0023

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
59	2045	210	370.2	SLU 29	0.14605	0.85092	-0.06985	-0.1186	0.0269	-0.0023
59	2045	210	370.2	SLU 30	0.13803	0.00023	-0.0854	0	0.007	0
59	2045	210	370.2	SLU 31	0.2147	0.51054	-0.06946	-0.0711	0.0317	-0.0014
59	2045	210	370.2	SLU 32	-0.07951	0.85077	-0.09448	-0.1185	-0.0179	-0.0023
59	2045	210	370.2	SLU 33	0.10012	0.85092	-0.07797	-0.1186	0.0139	-0.0023
59	2045	210	370.2	SLU 34	0.09209	0.00018	-0.09352	0	-0.006	0
59	2045	210	370.2	SLU 35	0.16879	0.5105	-0.07758	-0.0711	0.0187	-0.0014
59	2045	210	370.2	SLU 36	-0.25339	0.00015	-0.12916	0	-0.0721	0
59	2045	210	370.2	SLU 37	-0.17657	0.5104	-0.11323	-0.0711	-0.0474	-0.0014
59	2045	210	370.2	SLU 38	-0.0737	0.00003	-0.11265	0	-0.0403	0
59	2045	210	370.2	SLU 39	0.00304	0.51054	-0.09671	-0.0711	-0.0156	-0.0014
59	2045	210	370.2	SLU 40	-0.20542	0.0001	-0.12054	0	-0.0583	0
59	2045	210	370.2	SLU 41	-0.07746	0.85077	-0.09398	-0.1185	-0.0172	-0.0023
59	2045	210	370.2	SLU 42	0.10217	0.85092	-0.07746	-0.1186	0.0147	-0.0023
59	2045	210	370.2	SLU 43	0.09414	0.00018	-0.09301	0	-0.0053	0
59	2045	210	370.2	SLU 44	0.17084	0.5105	-0.07708	-0.0711	0.0194	-0.0014
59	2045	210	370.2	SLU 45	-0.12336	0.85072	-0.1021	-0.1185	-0.0302	-0.0023
59	2045	210	370.2	SLU 46	0.05625	0.85091	-0.08558	-0.1186	0.0017	-0.0023
59	2045	210	370.2	SLU 47	0.04821	0.00014	-0.10113	0	-0.0183	0
59	2045	210	370.2	SLU 48	0.12491	0.51056	-0.0852	-0.0711	0.0064	-0.0014
59	2045	210	370.2	SLU 49	-0.29725	0.0002	-0.13678	0	-0.0843	0
59	2045	210	370.2	SLU 50	-0.22044	0.51043	-0.12084	-0.0711	-0.0596	-0.0014
59	2045	210	370.2	SLU 51	-0.11752	0.00002	-0.12026	0	-0.0525	0
59	2045	210	370.2	SLU 52	-0.04077	0.51045	-0.10433	-0.0711	-0.0278	-0.0014
59	2045	210	370.2	SLE RA 1	-0.15352	0.00007	-0.09194	0	-0.0436	0
59	2045	210	370.2	SLE RA 2	-0.06821	0.56717	-0.07423	-0.079	-0.0162	-0.0015
59	2045	210	370.2	SLE RA 3	0.05154	0.56728	-0.06322	-0.079	0.0051	-0.0015
59	2045	210	370.2	SLE RA 4	0.04619	0.00012	-0.07359	0	-0.0082	0
59	2045	210	370.2	SLE RA 5	0.09732	0.34034	-0.06297	-0.0474	0.0082	-0.0009
59	2045	210	370.2	SLE RA 6	-0.09879	0.56712	-0.07965	-0.079	-0.0248	-0.0015
59	2045	210	370.2	SLE RA 7	0.02095	0.56724	-0.06864	-0.079	-0.0036	-0.0015
59	2045	210	370.2	SLE RA 8	0.01556	0.00009	-0.079	0	-0.0169	0
59	2045	210	370.2	SLE RA 9	0.0667	0.34037	-0.06838	-0.0474	-0.0004	-0.0009
59	2045	210	370.2	SLE RA 10	-0.21474	0.00014	-0.10277	0	-0.061	0
59	2045	210	370.2	SLE RA 11	-0.16353	0.34029	-0.09214	-0.0474	-0.0445	-0.0009
59	2045	210	370.2	SLE RA 12	-0.09491	0.00002	-0.09176	0	-0.0397	0
59	2045	210	370.2	SLE RA 13	-0.04375	0.3403	-0.08113	-0.0474	-0.0233	-0.0009
59	2045	210	370.2	SLE FR 1	-0.15352	0.00007	-0.09194	0	-0.0436	0
59	2045	210	370.2	SLE FR 2	-0.13645	0.11343	-0.0884	-0.0158	-0.0381	-0.0003
59	2045	210	370.2	SLE FR 3	-0.11358	0.00003	-0.08827	0	-0.0365	0
59	2045	210	370.2	SLE FR 4	-0.16576	0.00008	-0.0941	0	-0.0471	0
59	2045	210	370.2	SLE QP 1	-0.15352	0.00007	-0.09194	0	-0.0436	0
59	2045	210	370.2	SLD 1	-0.36736	-0.56028	-0.09332	0.0935	-0.0582	0.0057
59	2045	210	370.2	SLD 2	-0.36736	-0.56028	-0.09332	0.0935	-0.0582	0.0057
59	2045	210	370.2	SLD 3	-0.45461	0.56141	-0.09364	-0.0937	-0.0638	-0.0058
59	2045	210	370.2	SLD 4	-0.45461	0.56141	-0.09364	-0.0937	-0.0638	-0.0058
59	2045	210	370.2	SLD 5	-0.08546	-1.8675	-0.09187	0.3117	-0.0396	0.019
59	2045	210	370.2	SLD 6	-0.08546	-1.8675	-0.09187	0.3117	-0.0396	0.019
59	2045	210	370.2	SLD 7	-0.37629	1.87119	-0.09292	-0.3123	-0.0581	-0.0192
59	2045	210	370.2	SLD 8	-0.37629	1.87119	-0.09292	-0.3123	-0.0581	-0.0192
59	2045	210	370.2	SLD 9	0.06899	-1.86747	-0.09094	0.3117	-0.0292	0.0189
59	2045	210	370.2	SLD 10	0.06899	-1.86747	-0.09094	0.3117	-0.0292	0.0189
59	2045	210	370.2	SLD 11	-0.22183	1.87114	-0.092	-0.3123	-0.0477	-0.0192
59	2045	210	370.2	SLD 12	-0.22183	1.87114	-0.092	-0.3123	-0.0477	-0.0192
59	2045	210	370.2	SLD 13	0.14744	-0.56015	-0.09024	0.0935	-0.0235	0.0057
59	2045	210	370.2	SLD 14	0.14744	-0.56015	-0.09024	0.0935	-0.0235	0.0057
59	2045	210	370.2	SLD 15	0.06026	0.56124	-0.09056	-0.0937	-0.029	-0.0058
59	2045	210	370.2	SLD 16	0.06026	0.56124	-0.09056	-0.0937	-0.029	-0.0058
59	2045	210	370.2	SLV 1	-0.70284	-1.43932	-0.09549	0.2402	-0.0811	0.0146
59	2045	210	370.2	SLV 2	-0.70284	-1.43932	-0.09549	0.2402	-0.0811	0.0146
59	2045	210	370.2	SLV 3	-0.92701	1.44221	-0.0963	-0.2407	-0.0954	-0.0148
59	2045	210	370.2	SLV 4	-0.92701	1.44221	-0.0963	-0.2407	-0.0954	-0.0148
59	2045	210	370.2	SLV 5	0.02141	-4.79749	-0.09175	0.8007	-0.0333	0.0487
59	2045	210	370.2	SLV 6	0.02141	-4.79749	-0.09175	0.8007	-0.0333	0.0487
59	2045	210	370.2	SLV 7	-0.72579	4.80694	-0.09447	-0.8023	-0.0808	-0.0494
59	2045	210	370.2	SLV 8	-0.72579	4.80694	-0.09447	-0.8023	-0.0808	-0.0494
59	2045	210	370.2	SLV 9	0.41817	-4.79741	-0.08938	0.8007	-0.0065	0.0487
59	2045	210	370.2	SLV 10	0.41817	-4.79741	-0.08938	0.8007	-0.0065	0.0487
59	2045	210	370.2	SLV 11	-0.32899	4.80684	-0.0921	-0.8023	-0.054	-0.0494
59	2045	210	370.2	SLV 12	-0.32899	4.80684	-0.0921	-0.8023	-0.054	-0.0494
59	2045	210	370.2	SLV 13	0.61971	-1.43906	-0.08757	0.2402	0.0081	0.0146
59	2045	210	370.2	SLV 14	0.61971	-1.43906	-0.08757	0.2402	0.0081	0.0146
59	2045	210	370.2	SLV 15	0.39565	1.44185	-0.08839	-0.2406	-0.0061	-0.0148
59	2045	210	370.2	SLV 16	0.39565	1.44185	-0.08839	-0.2406	-0.0061	-0.0148
59	2045	210	370.2	SLV FO 1	-0.70284	-1.43932	-0.09549	0.2402	-0.0811	0.0146
59	2045	210	370.2	SLV FO 2	-0.70284	-1.43932	-0.09549	0.2402	-0.0811	0.0146
59	2045	210	370.2	SLV FO 3	-0.92701	1.44221	-0.0963	-0.2407	-0.0954	-0.0148
59	2045	210	370.2	SLV FO 4	-0.92701	1.44221	-0.0963	-0.2407	-0.0954	-0.0148
59	2045	210	370.2	SLV FO 5	0.02141	-4.79749	-0.09175	0.8007	-0.0333	0.0487
59	2045	210	370.2	SLV FO 6	0.02141	-4.79749	-0.09175	0.8007	-0.0333	0.0487
59	2045	210	370.2	SLV FO 7	-0.72579	4.80694	-0.09447	-0.8023	-0.0808	-0.0494
59	2045	210	370.2	SLV FO 8	-0.72579	4.80694	-0.09447	-0.8023	-0.0808	-0.0494
59	2045	210	370.2	SLV FO 9	0.41817	-4.79741	-0.08938	0.8007	-0.0065	0.0487
59	2045	210	370.2	SLV FO 10	0.41817	-4.79741	-0.08938	0.8007	-0.0065	0.0487
59	2045	210	370.2	SLV FO 11	-0.32899	4.80684	-0.0921	-0.8023	-0.054	-0.0494
59	2045	210	370.2	SLV FO 12	-0.32899	4.80684	-0.0921	-0.8023	-0.054	-0.0494
59	2045	210	370.2	SLV FO 13	0.61971	-1.43906	-0.08757	0.2402	0.0081	0.0146
59	2045	210	370.2	SLV FO 14	0.61971	-1.43906	-0.08757	0.2402	0.0081	0.0146
59	2045	210	370.2	SLV FO 15	0.39565	1.44185	-0.08839	-0.2406	-0.0061	-0.0148
59	2045	210	370.2	SLV FO 16	0.39565	1.44185	-0.08839	-0.2406	-0.0061	-0.0148
60	2045	710	370.2	SLU 1	-0.1315	0	-0.09192	0	-0.0405	0
60	2045	710	370.2	SLU 2	0.05776	0.84946	-0.03908	-0.1417	0.0374	0.0004
60	2045	710	370.2	SLU 3	0.27363	0.84973	-0.00668	-0.1418	0.0915	0.0004
60	2045	710	370.2	SLU 4	0.22821	0	-0.03791	0	0.0495	0
60	2045	710	370.2	SLU 5	0.34187	0.51	-0.00621	-0.0851	0.0963	0.0002
60	2045	710	370.2	SLU 6	0.00113	0.84934	-0.05518	-0.1417	0.0137	0.0004
60	2045	710	370.2	SLU 7	0.21706	0.84968	-0.02278	-0.1418	0.0677	0.0004
60	2045	710	370.2	SLU 8	0.17164	0	-0.05402	0	0.0258	0
60	2045	710	370.2	SLU 9	0.28526	0.50992	-0.02231	-0.0851	0.0726	0.0002
60	2045	710	370.2	SLU 10	-0.24476	0	-0.12412	0	-0.088	0
60	2045	710	370.2	SLU 11	-0.13121	0.50946	-0.09242	-0.085	-0.0412	0.0002
60	2045	710	370.2	SLU 12	-0.02879	0	-0.09172	0	-0.0339	0
60	2045	710	370.2	SLU 13	0.08477	0.50978	-0.06002	-0.0851	0.0128	0.0002

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
60	2045	710	370.2	SLU 14	-0.1856	0	-0.10701	0	-0.0628	0
60	2045	710	370.2	SLU 15	0.00365	0.84934	-0.05417	-0.1417	0.0152	0.0004
60	2045	710	370.2	SLU 16	0.21958	0.84968	-0.02177	-0.1418	0.0692	0.0004
60	2045	710	370.2	SLU 17	0.17416	0	-0.05301	0	0.0273	0
60	2045	710	370.2	SLU 18	0.28778	0.50992	-0.02131	-0.0851	0.074	0.0002
60	2045	710	370.2	SLU 19	-0.05294	0.84927	-0.07028	-0.1417	-0.0086	0.0004
60	2045	710	370.2	SLU 20	0.163	0.84963	-0.03788	-0.1418	0.0455	0.0004
60	2045	710	370.2	SLU 21	0.11758	0	-0.06911	0	0.0035	0
60	2045	710	370.2	SLU 22	0.23117	0.50992	-0.03741	-0.0851	0.0503	0.0002
60	2045	710	370.2	SLU 23	-0.29887	0	-0.13922	0	-0.1102	0
60	2045	710	370.2	SLU 24	-0.18531	0.50943	-0.10752	-0.085	-0.0635	0.0002
60	2045	710	370.2	SLU 25	-0.08284	0	-0.10682	0	-0.0562	0
60	2045	710	370.2	SLU 26	0.03065	0.50965	-0.07511	-0.085	-0.0094	0.0002
60	2045	710	370.2	SLU 27	-0.17095	0	-0.11949	0	-0.0527	0
60	2045	710	370.2	SLU 28	0.01833	0.84944	-0.06665	-0.1417	0.0253	0.0004
60	2045	710	370.2	SLU 29	0.23421	0.84971	-0.03425	-0.1418	0.0793	0.0004
60	2045	710	370.2	SLU 30	0.18879	0	-0.06549	0	0.0374	0
60	2045	710	370.2	SLU 31	0.30244	0.50999	-0.03379	-0.0851	0.0842	0.0003
60	2045	710	370.2	SLU 32	-0.0383	0.84931	-0.08276	-0.1417	0.0016	0.0004
60	2045	710	370.2	SLU 33	0.17763	0.84966	-0.05036	-0.1418	0.0556	0.0004
60	2045	710	370.2	SLU 34	0.13221	0	-0.08159	0	0.0137	0
60	2045	710	370.2	SLU 35	0.24584	0.50991	-0.04989	-0.0851	0.0604	0.0002
60	2045	710	370.2	SLU 36	-0.28421	0	-0.1517	0	-0.1001	0
60	2045	710	370.2	SLU 37	-0.17064	0.50944	-0.12	-0.085	-0.0533	0.0002
60	2045	710	370.2	SLU 38	-0.0682	0	-0.1193	0	-0.0461	0
60	2045	710	370.2	SLU 39	0.04534	0.50976	-0.08759	-0.0851	0.0007	0.0002
60	2045	710	370.2	SLU 40	-0.22505	0	-0.13459	0	-0.0749	0
60	2045	710	370.2	SLU 41	-0.03578	0.84932	-0.08175	-0.1417	0.003	0.0004
60	2045	710	370.2	SLU 42	0.18015	0.84966	-0.04935	-0.1418	0.057	0.0004
60	2045	710	370.2	SLU 43	0.13473	0	-0.08058	0	0.0151	0
60	2045	710	370.2	SLU 44	0.24836	0.50991	-0.04888	-0.0851	0.0619	0.0002
60	2045	710	370.2	SLU 45	-0.09241	0.84922	-0.09785	-0.1417	-0.0207	0.0004
60	2045	710	370.2	SLU 46	0.12356	0.8496	-0.06545	-0.1418	0.0333	0.0004
60	2045	710	370.2	SLU 47	0.07816	0	-0.09669	0	-0.0086	0
60	2045	710	370.2	SLU 48	0.19175	0.50991	-0.06499	-0.0851	0.0382	0.0002
60	2045	710	370.2	SLU 49	-0.33832	0	-0.16679	0	-0.1224	0
60	2045	710	370.2	SLU 50	-0.22475	0.50941	-0.13509	-0.085	-0.0756	0.0002
60	2045	710	370.2	SLU 51	-0.1224	0	-0.13439	0	-0.0684	0
60	2045	710	370.2	SLU 52	-0.00878	0.50963	-0.10269	-0.085	-0.0216	0.0002
60	2045	710	370.2	SLE RA 1	-0.16757	0	-0.10198	0	-0.0554	0
60	2045	710	370.2	SLE RA 2	-0.04138	0.5662	-0.06675	-0.0945	-0.0034	0.0003
60	2045	710	370.2	SLE RA 3	0.10258	0.56644	-0.04515	-0.0945	0.0326	0.0003
60	2045	710	370.2	SLE RA 4	0.0723	0	-0.06598	0	0.0047	0
60	2045	710	370.2	SLE RA 5	0.14805	0.33993	-0.04484	-0.0567	0.0359	0.0002
60	2045	710	370.2	SLE RA 6	-0.07916	0.56611	-0.07749	-0.0945	-0.0192	0.0003
60	2045	710	370.2	SLE RA 7	0.06483	0.56636	-0.05589	-0.0945	0.0168	0.0003
60	2045	710	370.2	SLE RA 8	0.03458	0	-0.07671	0	-0.0111	0
60	2045	710	370.2	SLE RA 9	0.11031	0.33993	-0.05558	-0.0567	0.02	0.0002
60	2045	710	370.2	SLE RA 10	-0.24308	0	-0.12345	0	-0.087	0
60	2045	710	370.2	SLE RA 11	-0.16737	0.33961	-0.10232	-0.0567	-0.0558	0.0002
60	2045	710	370.2	SLE RA 12	-0.09913	0	-0.10185	0	-0.051	0
60	2045	710	370.2	SLE RA 13	-0.02338	0.33974	-0.08071	-0.0567	-0.0198	0.0002
60	2045	710	370.2	SLE FR 1	-0.16757	0	-0.10198	0	-0.0554	0
60	2045	710	370.2	SLE FR 2	-0.14233	0.11318	-0.09493	-0.0189	-0.045	0.0001
60	2045	710	370.2	SLE FR 3	-0.11959	0	-0.09478	0	-0.0434	0
60	2045	710	370.2	SLE FR 4	-0.18267	0	-0.10627	0	-0.0617	0
60	2045	710	370.2	SLE QP 1	-0.16757	0	-0.10198	0	-0.0554	0
60	2045	710	370.2	SLD 1	-0.44939	-0.56069	-0.1038	0.0936	-0.0746	0.0057
60	2045	710	370.2	SLD 2	-0.44939	-0.56069	-0.1038	0.0936	-0.0746	0.0057
60	2045	710	370.2	SLD 3	-0.44939	0.56069	-0.1038	-0.0936	-0.0746	-0.0057
60	2045	710	370.2	SLD 4	-0.44939	0.56069	-0.1038	-0.0936	-0.0746	-0.0057
60	2045	710	370.2	SLD 5	-0.25213	-1.86936	-0.10252	0.312	-0.0611	0.0191
60	2045	710	370.2	SLD 6	-0.25213	-1.86936	-0.10252	0.312	-0.0611	0.0191
60	2045	710	370.2	SLD 7	-0.25213	1.86936	-0.10252	-0.312	-0.0611	-0.0191
60	2045	710	370.2	SLD 8	-0.25213	1.86936	-0.10252	-0.312	-0.0611	-0.0191
60	2045	710	370.2	SLD 9	-0.08303	-1.8694	-0.10142	0.312	-0.0496	0.0191
60	2045	710	370.2	SLD 10	-0.08303	-1.8694	-0.10142	0.312	-0.0496	0.0191
60	2045	710	370.2	SLD 11	-0.08303	1.8694	-0.10142	-0.312	-0.0496	-0.0191
60	2045	710	370.2	SLD 12	-0.08303	1.8694	-0.10142	-0.312	-0.0496	-0.0191
60	2045	710	370.2	SLD 13	0.11431	-0.56079	-0.10015	0.0936	-0.0362	0.0057
60	2045	710	370.2	SLD 14	0.11431	-0.56079	-0.10015	0.0936	-0.0362	0.0057
60	2045	710	370.2	SLD 15	0.11431	0.56079	-0.10015	-0.0936	-0.0362	-0.0057
60	2045	710	370.2	SLD 16	0.11431	0.56079	-0.10015	-0.0936	-0.0362	-0.0057
60	2045	710	370.2	SLV 1	-0.89155	-1.44047	-0.10666	0.2404	-0.1047	0.0147
60	2045	710	370.2	SLV 2	-0.89155	-1.44047	-0.10666	0.2404	-0.1047	0.0147
60	2045	710	370.2	SLV 3	-0.89155	1.44047	-0.10666	-0.2404	-0.1047	-0.0147
60	2045	710	370.2	SLV 4	-0.89155	1.44047	-0.10666	-0.2404	-0.1047	-0.0147
60	2045	710	370.2	SLV 5	-0.38491	-4.80236	-0.10336	0.8015	-0.0702	0.049
60	2045	710	370.2	SLV 6	-0.38491	-4.80236	-0.10336	0.8015	-0.0702	0.049
60	2045	710	370.2	SLV 7	-0.38491	4.80236	-0.10336	-0.8015	-0.0702	-0.049
60	2045	710	370.2	SLV 8	-0.38491	4.80236	-0.10336	-0.8015	-0.0702	-0.049
60	2045	710	370.2	SLV 9	0.04949	-4.80246	-0.10054	0.8015	-0.0406	0.049
60	2045	710	370.2	SLV 10	0.04949	-4.80246	-0.10054	0.8015	-0.0406	0.049
60	2045	710	370.2	SLV 11	0.04949	4.80246	-0.10054	-0.8015	-0.0406	-0.049
60	2045	710	370.2	SLV 12	0.04949	4.80246	-0.10054	-0.8015	-0.0406	-0.049
60	2045	710	370.2	SLV 13	0.55643	-1.4408	-0.09728	0.2405	-0.006	0.0147
60	2045	710	370.2	SLV 14	0.55643	-1.4408	-0.09728	0.2405	-0.006	0.0147
60	2045	710	370.2	SLV 15	0.55643	1.4408	-0.09728	-0.2405	-0.006	-0.0147
60	2045	710	370.2	SLV 16	0.55643	1.4408	-0.09728	-0.2405	-0.006	-0.0147
60	2045	710	370.2	SLV FO 1	-0.89155	-1.44047	-0.10666	0.2404	-0.1047	0.0147
60	2045	710	370.2	SLV FO 2	-0.89155	-1.44047	-0.10666	0.2404	-0.1047	0.0147
60	2045	710	370.2	SLV FO 3	-0.89155	1.44047	-0.10666	-0.2404	-0.1047	-0.0147
60	2045	710	370.2	SLV FO 4	-0.89155	1.44047	-0.10666	-0.2404	-0.1047	-0.0147
60	2045	710	370.2	SLV FO 5	-0.38491	-4.80236	-0.10336	0.8015	-0.0702	0.049
60	2045	710	370.2	SLV FO 6	-0.38491	-4.80236	-0.10336	0.8015	-0.0702	0.049
60	2045	710	370.2	SLV FO 7	-0.38491	4.80236	-0.10336	-0.8015	-0.0702	-0.049
60	2045	710	370.2	SLV FO 8	-0.38491	4.80236	-0.10336	-0.8015	-0.0702	-0.049
60	2045	710	370.2	SLV FO 9	0.04949	-4.80246	-0.10054	0.8015	-0.0406	0.049
60	2045	710	370.2	SLV FO 10	0.04949	-4.80246	-0.10054	0.8015	-0.0406	0.049
60	2045	710	370.2	SLV FO 11	0.04949	4.80246	-0.10054	-0.8015	-0.0406	-0.049

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
60	2045	710	370.2	SLV FO 12	0.04949	4.80246	-0.10054	-0.8015	-0.0406	-0.049
60	2045	710	370.2	SLV FO 13	0.55643	-1.4408	-0.09728	0.2405	-0.006	0.0147
60	2045	710	370.2	SLV FO 14	0.55643	-1.4408	-0.09728	0.2405	-0.006	0.0147
60	2045	710	370.2	SLV FO 15	0.55643	1.4408	-0.09728	-0.2405	-0.006	-0.0147
60	2045	710	370.2	SLV FO 16	0.55643	1.4408	-0.09728	-0.2405	-0.006	-0.0147
61	2045	1210	370.2	SLU 1	-0.12427	-0.00004	-0.08686	0	-0.0355	0
61	2045	1210	370.2	SLU 2	0.05488	0.84836	-0.06013	-0.1416	0.0089	0.0004
61	2045	1210	370.2	SLU 3	0.23467	0.84846	-0.04361	-0.1416	0.0408	0.0005
61	2045	1210	370.2	SLU 4	0.17532	-0.00023	-0.05934	0	0.0176	0
61	2045	1210	370.2	SLU 5	0.28282	0.50908	-0.0433	-0.0849	0.0442	0.0003
61	2045	1210	370.2	SLU 6	0.00894	0.84828	-0.06825	-0.1415	-0.0041	0.0004
61	2045	1210	370.2	SLU 7	0.18873	0.84846	-0.05173	-0.1416	0.0278	0.0005
61	2045	1210	370.2	SLU 8	0.12938	-0.00019	-0.06746	0	0.0046	0
61	2045	1210	370.2	SLU 9	0.23688	0.50904	-0.05142	-0.0849	0.0312	0.0003
61	2045	1210	370.2	SLU 10	-0.2161	-0.00014	-0.1031	0	-0.0615	0
61	2045	1210	370.2	SLU 11	-0.10864	0.5089	-0.08706	-0.0849	-0.0348	0.0003
61	2045	1210	370.2	SLU 12	-0.0364	-0.00004	-0.08659	0	-0.0296	0
61	2045	1210	370.2	SLU 13	0.07111	0.50905	-0.07055	-0.0849	-0.003	0.0003
61	2045	1210	370.2	SLU 14	-0.16814	-0.00009	-0.09448	0	-0.0477	0
61	2045	1210	370.2	SLU 15	0.01099	0.84828	-0.06774	-0.1415	-0.0033	0.0004
61	2045	1210	370.2	SLU 16	0.19078	0.84846	-0.05123	-0.1416	0.0285	0.0005
61	2045	1210	370.2	SLU 17	0.13143	-0.00019	-0.06695	0	0.0054	0
61	2045	1210	370.2	SLU 18	0.23893	0.50904	-0.05091	-0.0849	0.032	0.0003
61	2045	1210	370.2	SLU 19	-0.03495	0.84826	-0.07586	-0.1415	-0.0163	0.0004
61	2045	1210	370.2	SLU 20	0.14484	0.84845	-0.05935	-0.1416	0.0155	0.0005
61	2045	1210	370.2	SLU 21	0.0855	-0.00015	-0.07507	0	-0.0076	0
61	2045	1210	370.2	SLU 22	0.19303	0.50909	-0.05903	-0.0849	0.019	0.0003
61	2045	1210	370.2	SLU 23	-0.25997	-0.00019	-0.11072	0	-0.0737	0
61	2045	1210	370.2	SLU 24	-0.15251	0.50892	-0.09468	-0.0849	-0.0471	0.0003
61	2045	1210	370.2	SLU 25	-0.08029	0	-0.0942	0	-0.0419	0
61	2045	1210	370.2	SLU 26	0.02722	0.50898	-0.07816	-0.0849	-0.0152	0.0003
61	2045	1210	370.2	SLU 27	-0.16156	-0.00005	-0.11292	0	-0.0461	0
61	2045	1210	370.2	SLU 28	0.01759	0.84835	-0.08619	-0.1416	-0.0017	0.0004
61	2045	1210	370.2	SLU 29	0.19738	0.84845	-0.06967	-0.1416	0.0301	0.0005
61	2045	1210	370.2	SLU 30	0.13803	-0.00023	-0.0854	0	0.007	0
61	2045	1210	370.2	SLU 31	0.24553	0.50908	-0.06936	-0.0849	0.0336	0.0003
61	2045	1210	370.2	SLU 32	-0.02835	0.84827	-0.09431	-0.1415	-0.0147	0.0004
61	2045	1210	370.2	SLU 33	0.15144	0.84845	-0.07779	-0.1416	0.0171	0.0005
61	2045	1210	370.2	SLU 34	0.09209	-0.00018	-0.09352	0	-0.006	0
61	2045	1210	370.2	SLU 35	0.19959	0.50904	-0.07748	-0.0849	0.0206	0.0003
61	2045	1210	370.2	SLU 36	-0.25339	-0.00015	-0.12916	0	-0.0721	0
61	2045	1210	370.2	SLU 37	-0.14594	0.50889	-0.11312	-0.0849	-0.0455	0.0003
61	2045	1210	370.2	SLU 38	-0.0737	-0.00003	-0.11265	0	-0.0403	0
61	2045	1210	370.2	SLU 39	0.03382	0.50905	-0.09661	-0.0849	-0.0136	0.0003
61	2045	1210	370.2	SLU 40	-0.20542	-0.0001	-0.12054	0	-0.0583	0
61	2045	1210	370.2	SLU 41	-0.0263	0.84827	-0.0938	-0.1415	-0.014	0.0004
61	2045	1210	370.2	SLU 42	0.15349	0.84845	-0.07729	-0.1416	0.0179	0.0005
61	2045	1210	370.2	SLU 43	0.09414	-0.00018	-0.09301	0	-0.0053	0
61	2045	1210	370.2	SLU 44	0.20164	0.50904	-0.07697	-0.0849	0.0214	0.0003
61	2045	1210	370.2	SLU 45	-0.07224	0.84821	-0.10192	-0.1415	-0.027	0.0004
61	2045	1210	370.2	SLU 46	0.10754	0.84843	-0.08541	-0.1416	0.0049	0.0005
61	2045	1210	370.2	SLU 47	0.04821	-0.00014	-0.10113	0	-0.0183	0
61	2045	1210	370.2	SLU 48	0.15573	0.50909	-0.08509	-0.0849	0.0084	0.0003
61	2045	1210	370.2	SLU 49	-0.29725	-0.0002	-0.13678	0	-0.0843	0
61	2045	1210	370.2	SLU 50	-0.1898	0.50891	-0.12074	-0.0849	-0.0577	0.0003
61	2045	1210	370.2	SLU 51	-0.11752	-0.00002	-0.12026	0	-0.0525	0
61	2045	1210	370.2	SLU 52	-0.01007	0.50896	-0.10422	-0.0849	-0.0259	0.0003
61	2045	1210	370.2	SLE RA 1	-0.15352	-0.00007	-0.09194	0	-0.0436	0
61	2045	1210	370.2	SLE RA 2	-0.03411	0.56551	-0.07412	-0.0944	-0.014	0.0003
61	2045	1210	370.2	SLE RA 3	0.08575	0.56563	-0.06311	-0.0944	0.0072	0.0003
61	2045	1210	370.2	SLE RA 4	0.04619	-0.00012	-0.07359	0	-0.0082	0
61	2045	1210	370.2	SLE RA 5	0.11785	0.33936	-0.0629	-0.0566	0.0095	0.0002
61	2045	1210	370.2	SLE RA 6	-0.06473	0.56544	-0.07953	-0.0943	-0.0227	0.0003
61	2045	1210	370.2	SLE RA 7	0.05512	0.56559	-0.06852	-0.0944	-0.0015	0.0003
61	2045	1210	370.2	SLE RA 8	0.01556	-0.00009	-0.079	0	-0.0169	0
61	2045	1210	370.2	SLE RA 9	0.08724	0.33939	-0.06831	-0.0566	0.0009	0.0002
61	2045	1210	370.2	SLE RA 10	-0.21474	-0.00014	-0.10277	0	-0.061	0
61	2045	1210	370.2	SLE RA 11	-0.1431	0.33927	-0.09207	-0.0566	-0.0432	0.0002
61	2045	1210	370.2	SLE RA 12	-0.09491	-0.00002	-0.09176	0	-0.0397	0
61	2045	1210	370.2	SLE RA 13	-0.02329	0.3393	-0.08106	-0.0566	-0.022	0.0002
61	2045	1210	370.2	SLE FR 1	-0.15352	-0.00007	-0.09194	0	-0.0436	0
61	2045	1210	370.2	SLE FR 2	-0.12964	0.11309	-0.08837	-0.0189	-0.0377	0.0001
61	2045	1210	370.2	SLE FR 3	-0.11358	-0.00003	-0.08827	0	-0.0365	0
61	2045	1210	370.2	SLE FR 4	-0.16576	-0.00008	-0.0941	0	-0.0471	0
61	2045	1210	370.2	SLE QP 1	-0.15352	-0.00007	-0.09194	0	-0.0436	0
61	2045	1210	370.2	SLD 1	-0.45461	-0.56141	-0.09364	0.0937	-0.0638	0.0058
61	2045	1210	370.2	SLD 2	-0.45461	-0.56141	-0.09364	0.0937	-0.0638	0.0058
61	2045	1210	370.2	SLD 3	-0.36736	0.56028	-0.09332	-0.0935	-0.0582	-0.0057
61	2045	1210	370.2	SLD 4	-0.36736	0.56028	-0.09332	-0.0935	-0.0582	-0.0057
61	2045	1210	370.2	SLD 5	-0.37629	-1.87119	-0.09292	0.3123	-0.0581	0.0192
61	2045	1210	370.2	SLD 6	-0.37629	-1.87119	-0.09292	0.3123	-0.0581	0.0192
61	2045	1210	370.2	SLD 7	-0.08546	1.8675	-0.09187	-0.3117	-0.0396	-0.019
61	2045	1210	370.2	SLD 8	-0.08546	1.8675	-0.09187	-0.3117	-0.0396	-0.019
61	2045	1210	370.2	SLD 9	-0.22183	-1.87114	-0.092	0.3123	-0.0477	0.0192
61	2045	1210	370.2	SLD 10	-0.22183	-1.87114	-0.092	0.3123	-0.0477	0.0192
61	2045	1210	370.2	SLD 11	0.06899	1.86747	-0.09094	-0.3117	-0.0292	-0.0189
61	2045	1210	370.2	SLD 12	0.06899	1.86747	-0.09094	-0.3117	-0.0292	-0.0189
61	2045	1210	370.2	SLD 13	0.06026	-0.56124	-0.09056	0.0937	-0.029	0.0058
61	2045	1210	370.2	SLD 14	0.06026	-0.56124	-0.09056	0.0937	-0.029	0.0058
61	2045	1210	370.2	SLD 15	0.14744	0.56015	-0.09024	-0.0935	-0.0235	-0.0057
61	2045	1210	370.2	SLD 16	0.14744	0.56015	-0.09024	-0.0935	-0.0235	-0.0057
61	2045	1210	370.2	SLV 1	-0.92701	-1.44221	-0.0963	0.2407	-0.0954	0.0148
61	2045	1210	370.2	SLV 2	-0.92701	-1.44221	-0.0963	0.2407	-0.0954	0.0148
61	2045	1210	370.2	SLV 3	-0.70284	1.43932	-0.09549	-0.2402	-0.0811	-0.0146
61	2045	1210	370.2	SLV 4	-0.70284	1.43932	-0.09549	-0.2402	-0.0811	-0.0146
61	2045	1210	370.2	SLV 5	-0.72579	-4.80694	-0.09447	0.8023	-0.0808	0.0494
61	2045	1210	370.2	SLV 6	-0.72579	-4.80694	-0.09447	0.8023	-0.0808	0.0494
61	2045	1210	370.2	SLV 7	0.02141	4.79749	-0.09175	-0.8007	-0.0333	-0.0487
61	2045	1210	370.2	SLV 8	0.02141	4.79749	-0.09175	-0.8007	-0.0333	-0.0487
61	2045	1210	370.2	SLV 9	-0.32899	-4.80684	-0.0921	0.8023	-0.054	0.0494
61	2045	1210	370.2	SLV 10	-0.32899	-4.80684	-0.0921	0.8023	-0.054	0.0494
61	2045	1210	370.2	SLV 11	0.41817	4.79741	-0.08938	-0.8007	-0.0065	-0.0487
61	2045	1210	370.2	SLV 12	0.41817	4.79741	-0.08938	-0.8007	-0.0065	-0.0487

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
61	2045	1210	370.2	SLV 13	0.39565	-1.44185	-0.08839	0.2406	-0.0061	0.0148
61	2045	1210	370.2	SLV 14	0.39565	-1.44185	-0.08839	0.2406	-0.0061	0.0148
61	2045	1210	370.2	SLV 15	0.61971	1.43906	-0.08757	-0.2402	0.0081	-0.0146
61	2045	1210	370.2	SLV 16	0.61971	1.43906	-0.08757	-0.2402	0.0081	-0.0146
61	2045	1210	370.2	SLV FO 1	-0.92701	-1.44221	-0.0963	0.2407	-0.0954	0.0148
61	2045	1210	370.2	SLV FO 2	-0.92701	-1.44221	-0.0963	0.2407	-0.0954	0.0148
61	2045	1210	370.2	SLV FO 3	-0.70284	1.43932	-0.09549	-0.2402	-0.0811	-0.0146
61	2045	1210	370.2	SLV FO 4	-0.70284	1.43932	-0.09549	-0.2402	-0.0811	-0.0146
61	2045	1210	370.2	SLV FO 5	-0.72579	-4.80694	-0.09447	0.8023	-0.0808	0.0494
61	2045	1210	370.2	SLV FO 6	-0.72579	-4.80694	-0.09447	0.8023	-0.0808	0.0494
61	2045	1210	370.2	SLV FO 7	0.02141	4.79749	-0.09175	-0.8007	-0.0333	-0.0487
61	2045	1210	370.2	SLV FO 8	0.02141	4.79749	-0.09175	-0.8007	-0.0333	-0.0487
61	2045	1210	370.2	SLV FO 9	-0.32899	-4.80684	-0.0921	0.8023	-0.054	0.0494
61	2045	1210	370.2	SLV FO 10	-0.32899	-4.80684	-0.0921	0.8023	-0.054	0.0494
61	2045	1210	370.2	SLV FO 11	0.41817	4.79741	-0.08938	-0.8007	-0.0065	-0.0487
61	2045	1210	370.2	SLV FO 12	0.41817	4.79741	-0.08938	-0.8007	-0.0065	-0.0487
61	2045	1210	370.2	SLV FO 13	0.39565	-1.44185	-0.08839	0.2406	-0.0061	0.0148
61	2045	1210	370.2	SLV FO 14	0.39565	-1.44185	-0.08839	0.2406	-0.0061	0.0148
61	2045	1210	370.2	SLV FO 15	0.61971	1.43906	-0.08757	-0.2402	0.0081	-0.0146
61	2045	1210	370.2	SLV FO 16	0.61971	1.43906	-0.08757	-0.2402	0.0081	-0.0146
62	2005	210	375.2	SLU 1	-0.12745	0.00004	-0.11204	0	-0.0351	0
62	2005	210	375.2	SLU 2	0.00417	0.86295	-0.05621	-0.1147	0.0056	-0.0031
62	2005	210	375.2	SLU 3	0.18671	0.86304	-0.01705	-0.1147	0.0369	-0.0031
62	2005	210	375.2	SLU 4	0.1769	0.00025	-0.04678	0	0.0171	0
62	2005	210	375.2	SLU 5	0.25578	0.5178	-0.01328	-0.0688	0.0415	-0.0019
62	2005	210	375.2	SLU 6	-0.04288	0.86288	-0.07356	-0.1147	-0.0072	-0.0031
62	2005	210	375.2	SLU 7	0.13961	0.86304	-0.03441	-0.1147	0.0241	-0.0031
62	2005	210	375.2	SLU 8	0.12979	0.00021	-0.06414	0	0.0043	0
62	2005	210	375.2	SLU 9	0.20871	0.51777	-0.03064	-0.0688	0.0287	-0.0019
62	2005	210	375.2	SLU 10	-0.22162	0.00014	-0.14676	0	-0.0607	0
62	2005	210	375.2	SLU 11	-0.14259	0.51767	-0.11326	-0.0688	-0.0363	-0.0019
62	2005	210	375.2	SLU 12	-0.03906	0.00004	-0.10761	0	-0.0294	0
62	2005	210	375.2	SLU 13	0.03989	0.5178	-0.07411	-0.0688	-0.005	-0.0019
62	2005	210	375.2	SLU 14	-0.17242	0.00009	-0.12834	0	-0.0471	0
62	2005	210	375.2	SLU 15	-0.04076	0.86288	-0.07251	-0.1147	-0.0065	-0.0031
62	2005	210	375.2	SLU 16	0.14173	0.86304	-0.03336	-0.1147	0.0248	-0.0031
62	2005	210	375.2	SLU 17	0.13191	0.00021	-0.06308	0	0.0051	0
62	2005	210	375.2	SLU 18	0.21083	0.51777	-0.02959	-0.0688	0.0295	-0.0019
62	2005	210	375.2	SLU 19	-0.08785	0.86287	-0.08987	-0.1147	-0.0193	-0.0031
62	2005	210	375.2	SLU 20	0.09463	0.86304	-0.05072	-0.1147	0.012	-0.0031
62	2005	210	375.2	SLU 21	0.08481	0.00016	-0.08044	0	-0.0078	0
62	2005	210	375.2	SLU 22	0.16373	0.51783	-0.04695	-0.0688	0.0166	-0.0019
62	2005	210	375.2	SLU 23	-0.26658	0.00019	-0.16307	0	-0.0728	0
62	2005	210	375.2	SLU 24	-0.18755	0.51769	-0.12956	-0.0688	-0.0484	-0.0019
62	2005	210	375.2	SLU 25	-0.08404	0	-0.12391	0	-0.0415	0
62	2005	210	375.2	SLU 26	-0.00503	0.51773	-0.09041	-0.0688	-0.0171	-0.0019
62	2005	210	375.2	SLU 27	-0.16569	0.00005	-0.14565	0	-0.0456	0
62	2005	210	375.2	SLU 28	-0.03407	0.86294	-0.08982	-0.1147	-0.0049	-0.0031
62	2005	210	375.2	SLU 29	0.14847	0.86303	-0.05066	-0.1147	0.0264	-0.0031
62	2005	210	375.2	SLU 30	0.13865	0.00024	-0.08039	0	0.0066	0
62	2005	210	375.2	SLU 31	0.21753	0.5178	-0.0469	-0.0688	0.031	-0.0019
62	2005	210	375.2	SLU 32	-0.08111	0.86287	-0.10718	-0.1147	-0.0178	-0.0031
62	2005	210	375.2	SLU 33	0.10137	0.86303	-0.06803	-0.1147	0.0136	-0.0031
62	2005	210	375.2	SLU 34	0.09155	0.0002	-0.09775	0	-0.0062	0
62	2005	210	375.2	SLU 35	0.17047	0.51777	-0.06426	-0.0688	0.0182	-0.0019
62	2005	210	375.2	SLU 36	-0.25985	0.00015	-0.18037	0	-0.0713	0
62	2005	210	375.2	SLU 37	-0.18082	0.51766	-0.14687	-0.0688	-0.0469	-0.0019
62	2005	210	375.2	SLU 38	-0.07731	0.00003	-0.14122	0	-0.0399	0
62	2005	210	375.2	SLU 39	0.00165	0.5178	-0.10772	-0.0688	-0.0155	-0.0019
62	2005	210	375.2	SLU 40	-0.21065	0.0001	-0.16195	0	-0.0577	0
62	2005	210	375.2	SLU 41	-0.079	0.86287	-0.10612	-0.1147	-0.017	-0.0031
62	2005	210	375.2	SLU 42	0.10349	0.86303	-0.06697	-0.1147	0.0143	-0.0031
62	2005	210	375.2	SLU 43	0.09367	0.0002	-0.09669	0	-0.0055	0
62	2005	210	375.2	SLU 44	0.17258	0.51777	-0.0632	-0.0688	0.0189	-0.0019
62	2005	210	375.2	SLU 45	-0.12605	0.86282	-0.12348	-0.1147	-0.0298	-0.0031
62	2005	210	375.2	SLU 46	0.0564	0.86302	-0.08433	-0.1147	0.0015	-0.0031
62	2005	210	375.2	SLU 47	0.04656	0.00015	-0.11406	0	-0.0183	0
62	2005	210	375.2	SLU 48	0.12549	0.51782	-0.08056	-0.0688	0.0061	-0.0019
62	2005	210	375.2	SLU 49	-0.30482	0.0002	-0.19668	0	-0.0833	0
62	2005	210	375.2	SLU 50	-0.22579	0.51768	-0.16317	-0.0688	-0.0589	-0.0019
62	2005	210	375.2	SLU 51	-0.12223	0.00002	-0.15752	0	-0.052	0
62	2005	210	375.2	SLU 52	-0.04326	0.51771	-0.12402	-0.0688	-0.0276	-0.0019
62	2005	210	375.2	SLE RA 1	-0.15743	0.00007	-0.12291	0	-0.0431	0
62	2005	210	375.2	SLE RA 2	-0.06966	0.57524	-0.08568	-0.0765	-0.016	-0.0021
62	2005	210	375.2	SLE RA 3	0.05199	0.57535	-0.05958	-0.0765	0.0049	-0.0021
62	2005	210	375.2	SLE RA 4	0.04545	0.00013	-0.0794	0	-0.0083	0
62	2005	210	375.2	SLE RA 5	0.09806	0.34518	-0.05707	-0.0459	0.0079	-0.0012
62	2005	210	375.2	SLE RA 6	-0.10101	0.57518	-0.09726	-0.0765	-0.0246	-0.0021
62	2005	210	375.2	SLE RA 7	0.02063	0.57531	-0.07116	-0.0765	-0.0037	-0.0021
62	2005	210	375.2	SLE RA 8	0.01404	0.0001	-0.09098	0	-0.0169	0
62	2005	210	375.2	SLE RA 9	0.06666	0.34521	-0.06865	-0.0459	-0.0006	-0.0012
62	2005	210	375.2	SLE RA 10	-0.2202	0.00014	-0.14606	0	-0.0602	0
62	2005	210	375.2	SLE RA 11	-0.16752	0.34513	-0.12372	-0.0459	-0.044	-0.0012
62	2005	210	375.2	SLE RA 12	-0.09848	0.00002	-0.11995	0	-0.0393	0
62	2005	210	375.2	SLE RA 13	-0.04584	0.34514	-0.09762	-0.0459	-0.0231	-0.0012
62	2005	210	375.2	SLE FR 1	-0.15743	0.00007	-0.12291	0	-0.0431	0
62	2005	210	375.2	SLE FR 2	-0.13986	0.11505	-0.11546	-0.0153	-0.0377	-0.0004
62	2005	210	375.2	SLE FR 3	-0.11685	0.00003	-0.11421	0	-0.0362	0
62	2005	210	375.2	SLE FR 4	-0.16998	0.00008	-0.12754	0	-0.0465	0
62	2005	210	375.2	SLE QP 1	-0.15743	0.00007	-0.12291	0	-0.0431	0
62	2005	210	375.2	SLD 1	-0.37258	-0.57265	-0.13467	0.0922	-0.0572	0.0063
62	2005	210	375.2	SLD 2	-0.37258	-0.57265	-0.13467	0.0922	-0.0572	0.0063
62	2005	210	375.2	SLD 3	-0.46032	0.57383	-0.13893	-0.0923	-0.0626	-0.0064
62	2005	210	375.2	SLD 4	-0.46032	0.57383	-0.13893	-0.0923	-0.0626	-0.0064
62	2005	210	375.2	SLD 5	-0.08901	-1.90869	-0.11997	0.3072	-0.0392	0.021
62	2005	210	375.2	SLD 6	-0.08901	-1.90869	-0.11997	0.3072	-0.0392	0.021
62	2005	210	375.2	SLD 7	-0.38149	1.91259	-0.13418	-0.3078	-0.0571	-0.0212
62	2005	210	375.2	SLD 8	-0.38149	1.91259	-0.13418	-0.3078	-0.0571	-0.0212
62	2005	210	375.2	SLD 9	0.06637	-1.90865	-0.11163	0.3072	-0.0292	0.021
62	2005	210	375.2	SLD 10	0.06637	-1.90865	-0.11163	0.3072	-0.0292	0.021

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
62	2005	210	375.2	SLD 11	-0.22609	1.91255	-0.12585	-0.3078	-0.047	-0.0212
62	2005	210	375.2	SLD 12	-0.22609	1.91255	-0.12585	-0.3078	-0.047	-0.0212
62	2005	210	375.2	SLD 13	0.14533	-0.57249	-0.10689	0.0921	-0.0237	0.0063
62	2005	210	375.2	SLD 14	0.14533	-0.57249	-0.10689	0.0921	-0.0237	0.0063
62	2005	210	375.2	SLD 15	0.05765	0.57366	-0.11115	-0.0923	-0.029	-0.0064
62	2005	210	375.2	SLD 16	0.05765	0.57366	-0.11115	-0.0923	-0.029	-0.0064
62	2005	210	375.2	SLV 1	-0.71009	-1.47109	-0.15312	0.2368	-0.0794	0.0162
62	2005	210	375.2	SLV 2	-0.71009	-1.47109	-0.15312	0.2368	-0.0794	0.0162
62	2005	210	375.2	SLV 3	-0.93553	1.47411	-0.16408	-0.2372	-0.0931	-0.0163
62	2005	210	375.2	SLV 4	-0.93553	1.47411	-0.16408	-0.2372	-0.0931	-0.0163
62	2005	210	375.2	SLV 5	0.01843	-4.90329	-0.11536	0.7892	-0.0332	0.0539
62	2005	210	375.2	SLV 6	0.01843	-4.90329	-0.11536	0.7892	-0.0332	0.0539
62	2005	210	375.2	SLV 7	-0.733	4.91331	-0.15187	-0.7907	-0.079	-0.0544
62	2005	210	375.2	SLV 8	-0.733	4.91331	-0.15187	-0.7907	-0.079	-0.0544
62	2005	210	375.2	SLV 9	0.41758	-4.90319	-0.09394	0.7891	-0.0073	0.0539
62	2005	210	375.2	SLV 10	0.41758	-4.90319	-0.09394	0.7891	-0.0073	0.0539
62	2005	210	375.2	SLV 11	-0.33381	4.9132	-0.13046	-0.7907	-0.0531	-0.0544
62	2005	210	375.2	SLV 12	-0.33381	4.9132	-0.13046	-0.7907	-0.0531	-0.0544
62	2005	210	375.2	SLV 13	0.62041	-1.47077	-0.08174	0.2367	0.0069	0.0161
62	2005	210	375.2	SLV 14	0.62041	-1.47077	-0.08174	0.2367	0.0069	0.0161
62	2005	210	375.2	SLV 15	0.39508	1.47376	-0.09269	-0.2372	-0.0069	-0.0163
62	2005	210	375.2	SLV 16	0.39508	1.47376	-0.09269	-0.2372	-0.0069	-0.0163
62	2005	210	375.2	SLV FO 1	-0.71009	-1.47109	-0.15312	0.2368	-0.0794	0.0162
62	2005	210	375.2	SLV FO 2	-0.71009	-1.47109	-0.15312	0.2368	-0.0794	0.0162
62	2005	210	375.2	SLV FO 3	-0.93553	1.47411	-0.16408	-0.2372	-0.0931	-0.0163
62	2005	210	375.2	SLV FO 4	-0.93553	1.47411	-0.16408	-0.2372	-0.0931	-0.0163
62	2005	210	375.2	SLV FO 5	0.01843	-4.90329	-0.11536	0.7892	-0.0332	0.0539
62	2005	210	375.2	SLV FO 6	0.01843	-4.90329	-0.11536	0.7892	-0.0332	0.0539
62	2005	210	375.2	SLV FO 7	-0.733	4.91331	-0.15187	-0.7907	-0.079	-0.0544
62	2005	210	375.2	SLV FO 8	-0.733	4.91331	-0.15187	-0.7907	-0.079	-0.0544
62	2005	210	375.2	SLV FO 9	0.41758	-4.90319	-0.09394	0.7891	-0.0073	0.0539
62	2005	210	375.2	SLV FO 10	0.41758	-4.90319	-0.09394	0.7891	-0.0073	0.0539
62	2005	210	375.2	SLV FO 11	-0.33381	4.9132	-0.13046	-0.7907	-0.0531	-0.0544
62	2005	210	375.2	SLV FO 12	-0.33381	4.9132	-0.13046	-0.7907	-0.0531	-0.0544
62	2005	210	375.2	SLV FO 13	0.62041	-1.47077	-0.08174	0.2367	0.0069	0.0161
62	2005	210	375.2	SLV FO 14	0.62041	-1.47077	-0.08174	0.2367	0.0069	0.0161
62	2005	210	375.2	SLV FO 15	0.39508	1.47376	-0.09269	-0.2372	-0.0069	-0.0163
62	2005	210	375.2	SLV FO 16	0.39508	1.47376	-0.09269	-0.2372	-0.0069	-0.0163
63	2005	710	375.2	SLU 1	-0.13514	0	-0.12074	0	-0.0402	0
63	2005	710	375.2	SLU 2	0.06112	0.86178	-0.01248	-0.1397	0.0369	-0.0002
63	2005	710	375.2	SLU 3	0.28183	0.86205	0.05833	-0.1397	0.0902	-0.0002
63	2005	710	375.2	SLU 4	0.23264	0	-0.00273	0	0.0486	0
63	2005	710	375.2	SLU 5	0.35049	0.51739	0.06223	-0.0838	0.0949	-0.0001
63	2005	710	375.2	SLU 6	0.00236	0.86165	-0.04545	-0.1396	0.0135	-0.0002
63	2005	710	375.2	SLU 7	0.22313	0.862	0.02536	-0.1397	0.0667	-0.0002
63	2005	710	375.2	SLU 8	0.17394	0	-0.03569	0	0.0252	0
63	2005	710	375.2	SLU 9	0.29176	0.5173	0.02927	-0.0838	0.0714	-0.0001
63	2005	710	375.2	SLU 10	-0.25266	0	-0.18668	0	-0.0871	0
63	2005	710	375.2	SLU 11	-0.13491	0.51685	-0.12172	-0.0838	-0.0408	-0.0001
63	2005	710	375.2	SLU 12	-0.03184	0	-0.11586	0	-0.0338	0
63	2005	710	375.2	SLU 13	0.08591	0.51717	-0.05091	-0.0838	0.0124	-0.0001
63	2005	710	375.2	SLU 14	-0.19125	0	-0.15167	0	-0.0622	0
63	2005	710	375.2	SLU 15	0.00501	0.86166	-0.04341	-0.1396	0.0149	-0.0002
63	2005	710	375.2	SLU 16	0.22578	0.862	0.0274	-0.1397	0.0682	-0.0002
63	2005	710	375.2	SLU 17	0.17659	0	-0.03365	0	0.0266	0
63	2005	710	375.2	SLU 18	0.29441	0.51731	0.0313	-0.0838	0.0729	-0.0001
63	2005	710	375.2	SLU 19	-0.05371	0.86159	-0.07638	-0.1396	-0.0086	-0.0002
63	2005	710	375.2	SLU 20	0.16707	0.86195	-0.00557	-0.1397	0.0447	-0.0002
63	2005	710	375.2	SLU 21	0.11788	0	-0.06662	0	0.0031	0
63	2005	710	375.2	SLU 22	0.23567	0.51731	-0.00166	-0.0838	0.0494	-0.0001
63	2005	710	375.2	SLU 23	-0.30877	0	-0.21761	0	-0.1091	0
63	2005	710	375.2	SLU 24	-0.19101	0.51682	-0.15265	-0.0838	-0.0629	-0.0001
63	2005	710	375.2	SLU 25	-0.0879	0	-0.14679	0	-0.0558	0
63	2005	710	375.2	SLU 26	0.0298	0.51704	-0.08184	-0.0838	-0.0096	-0.0001
63	2005	710	375.2	SLU 27	-0.17568	0	-0.15696	0	-0.0522	0
63	2005	710	375.2	SLU 28	0.0206	0.86176	-0.0487	-0.1397	0.0249	-0.0002
63	2005	710	375.2	SLU 29	0.24131	0.86203	0.02211	-0.1397	0.0781	-0.0002
63	2005	710	375.2	SLU 30	0.19212	0	-0.03895	0	0.0366	0
63	2005	710	375.2	SLU 31	0.30998	0.51738	0.02601	-0.0838	0.0828	-0.0001
63	2005	710	375.2	SLU 32	-0.03817	0.86163	-0.08167	-0.1396	0.0014	-0.0002
63	2005	710	375.2	SLU 33	0.18261	0.86198	-0.01086	-0.1397	0.0547	-0.0002
63	2005	710	375.2	SLU 34	0.13342	0	-0.07191	0	0.0131	0
63	2005	710	375.2	SLU 35	0.25124	0.51729	-0.00695	-0.0838	0.0594	-0.0001
63	2005	710	375.2	SLU 36	-0.2932	0	-0.2229	0	-0.0991	0
63	2005	710	375.2	SLU 37	-0.17544	0.51683	-0.15794	-0.0838	-0.0529	-0.0001
63	2005	710	375.2	SLU 38	-0.07235	0	-0.15208	0	-0.0459	0
63	2005	710	375.2	SLU 39	0.04539	0.51715	-0.08713	-0.0838	0.0004	-0.0001
63	2005	710	375.2	SLU 40	-0.23179	0	-0.18789	0	-0.0743	0
63	2005	710	375.2	SLU 41	-0.03552	0.86163	-0.07963	-0.1396	0.0028	-0.0002
63	2005	710	375.2	SLU 42	0.18526	0.86198	-0.00882	-0.1397	0.0561	-0.0002
63	2005	710	375.2	SLU 43	0.13607	0	-0.06988	0	0.0146	0
63	2005	710	375.2	SLU 44	0.25389	0.5173	-0.00492	-0.0838	0.0608	-0.0001
63	2005	710	375.2	SLU 45	-0.09427	0.86153	-0.1126	-0.1396	-0.0206	-0.0002
63	2005	710	375.2	SLU 46	0.12654	0.86191	-0.04179	-0.1397	0.0327	-0.0002
63	2005	710	375.2	SLU 47	0.07737	0	-0.10284	0	-0.0089	0
63	2005	710	375.2	SLU 48	0.19515	0.5173	-0.03789	-0.0838	0.0373	-0.0001
63	2005	710	375.2	SLU 49	-0.34931	0	-0.25383	0	-0.1212	0
63	2005	710	375.2	SLU 50	-0.23154	0.5168	-0.18888	-0.0837	-0.0749	-0.0001
63	2005	710	375.2	SLU 51	-0.12855	0	-0.18302	0	-0.0679	0
63	2005	710	375.2	SLU 52	-0.01073	0.51701	-0.11806	-0.0838	-0.0216	-0.0001
63	2005	710	375.2	SLE RA 1	-0.17254	0	-0.14136	0	-0.0549	0
63	2005	710	375.2	SLE RA 2	-0.04169	0.57441	-0.06919	-0.0931	-0.0035	-0.0001
63	2005	710	375.2	SLE RA 3	0.1055	0.57465	-0.02198	-0.0931	0.0321	-0.0001
63	2005	710	375.2	SLE RA 4	0.07271	0	-0.06268	0	0.0043	0
63	2005	710	375.2	SLE RA 5	0.15125	0.34486	-0.01938	-0.0559	0.0352	-0.0001
63	2005	710	375.2	SLE RA 6	-0.08089	0.57432	-0.09117	-0.0931	-0.0191	-0.0001
63	2005	710	375.2	SLE RA 7	0.06633	0.57457	-0.04396	-0.0931	0.0164	-0.0001
63	2005	710	375.2	SLE RA 8	0.03357	0	-0.08466	0	-0.0113	0
63	2005	710	375.2	SLE RA 9	0.11209	0.34486	-0.04135	-0.0559	0.0195	-0.0001
63	2005	710	375.2	SLE RA 10	-0.25089	0	-0.18532	0	-0.0861	0
63	2005	710	375.2	SLE RA 11	-0.17238	0.34453	-0.14202	-0.0558	-0.0553	-0.0001
63	2005	710	375.2	SLE RA 12	-0.10372	0	-0.13811	0	-0.0506	0
63	2005	710	375.2	SLE RA 13	-0.02517	0.34467	-0.0948	-0.0559	-0.0198	-0.0001

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Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
63	2005	710	375.2	SLE FR 1	-0.17254	0	-0.14136	0	-0.0549	0
63	2005	710	375.2	SLE FR 2	-0.14637	0.11482	-0.12693	-0.0186	-0.0446	0
63	2005	710	375.2	SLE FR 3	-0.12349	0	-0.12563	0	-0.043	0
63	2005	710	375.2	SLE FR 4	-0.18821	0	-0.15015	0	-0.0611	0
63	2005	710	375.2	SLE QP 1	-0.17254	0	-0.14136	0	-0.0549	0
63	2005	710	375.2	SLD 1	-0.45607	-0.57308	-0.15684	0.0922	-0.0734	0.0063
63	2005	710	375.2	SLD 2	-0.45607	-0.57308	-0.15684	0.0922	-0.0734	0.0063
63	2005	710	375.2	SLD 3	-0.45607	0.57308	-0.15684	-0.0922	-0.0734	-0.0063
63	2005	710	375.2	SLD 4	-0.45607	0.57308	-0.15684	-0.0922	-0.0734	-0.0063
63	2005	710	375.2	SLD 5	-0.25761	-1.91063	-0.146	0.3075	-0.0604	0.0211
63	2005	710	375.2	SLD 6	-0.25761	-1.91063	-0.146	0.3075	-0.0604	0.0211
63	2005	710	375.2	SLD 7	-0.25761	1.91063	-0.146	-0.3075	-0.0604	-0.0211
63	2005	710	375.2	SLD 8	-0.25761	1.91063	-0.146	-0.3075	-0.0604	-0.0211
63	2005	710	375.2	SLD 9	-0.08748	-1.91067	-0.13671	0.3075	-0.0493	0.021
63	2005	710	375.2	SLD 10	-0.08748	-1.91067	-0.13671	0.3075	-0.0493	0.021
63	2005	710	375.2	SLD 11	-0.08748	1.91067	-0.13671	-0.3075	-0.0493	-0.021
63	2005	710	375.2	SLD 12	-0.08748	1.91067	-0.13671	-0.3075	-0.0493	-0.021
63	2005	710	375.2	SLD 13	0.11105	-0.57317	-0.12587	0.0922	-0.0363	0.0063
63	2005	710	375.2	SLD 14	0.11105	-0.57317	-0.12587	0.0922	-0.0363	0.0063
63	2005	710	375.2	SLD 15	0.11105	0.57317	-0.12587	-0.0922	-0.0363	-0.0063
63	2005	710	375.2	SLD 16	0.11105	0.57317	-0.12587	-0.0922	-0.0363	-0.0063
63	2005	710	375.2	SLV 1	-0.90092	-1.47228	-0.18113	0.2369	-0.1026	0.0162
63	2005	710	375.2	SLV 2	-0.90092	-1.47228	-0.18113	0.2369	-0.1026	0.0162
63	2005	710	375.2	SLV 3	-0.90092	1.47228	-0.18113	-0.2369	-0.1026	-0.0162
63	2005	710	375.2	SLV 4	-0.90092	1.47228	-0.18113	-0.2369	-0.1026	-0.0162
63	2005	710	375.2	SLV 5	-0.39118	-4.90838	-0.15327	0.79	-0.0692	0.0541
63	2005	710	375.2	SLV 6	-0.39118	-4.90838	-0.15327	0.79	-0.0692	0.0541
63	2005	710	375.2	SLV 7	-0.39118	4.90838	-0.15327	-0.79	-0.0692	-0.0541
63	2005	710	375.2	SLV 8	-0.39118	4.90838	-0.15327	-0.79	-0.0692	-0.0541
63	2005	710	375.2	SLV 9	0.04585	-4.90848	-0.1294	0.79	-0.0405	0.0541
63	2005	710	375.2	SLV 10	0.04585	-4.90848	-0.1294	0.79	-0.0405	0.0541
63	2005	710	375.2	SLV 11	0.04585	4.90848	-0.1294	-0.79	-0.0405	-0.0541
63	2005	710	375.2	SLV 12	0.04585	4.90848	-0.1294	-0.79	-0.0405	-0.0541
63	2005	710	375.2	SLV 13	0.55586	-1.4726	-0.10157	0.237	-0.0071	0.0162
63	2005	710	375.2	SLV 14	0.55586	-1.4726	-0.10157	0.237	-0.0071	0.0162
63	2005	710	375.2	SLV 15	0.55586	1.4726	-0.10157	-0.237	-0.0071	-0.0162
63	2005	710	375.2	SLV 16	0.55586	1.4726	-0.10157	-0.237	-0.0071	-0.0162
63	2005	710	375.2	SLV FO 1	-0.90092	-1.47228	-0.18113	0.2369	-0.1026	0.0162
63	2005	710	375.2	SLV FO 2	-0.90092	-1.47228	-0.18113	0.2369	-0.1026	0.0162
63	2005	710	375.2	SLV FO 3	-0.90092	1.47228	-0.18113	-0.2369	-0.1026	-0.0162
63	2005	710	375.2	SLV FO 4	-0.90092	1.47228	-0.18113	-0.2369	-0.1026	-0.0162
63	2005	710	375.2	SLV FO 5	-0.39118	-4.90838	-0.15327	0.79	-0.0692	0.0541
63	2005	710	375.2	SLV FO 6	-0.39118	-4.90838	-0.15327	0.79	-0.0692	0.0541
63	2005	710	375.2	SLV FO 7	-0.39118	4.90838	-0.15327	-0.79	-0.0692	-0.0541
63	2005	710	375.2	SLV FO 8	-0.39118	4.90838	-0.15327	-0.79	-0.0692	-0.0541
63	2005	710	375.2	SLV FO 9	0.04585	-4.90848	-0.1294	0.79	-0.0405	0.0541
63	2005	710	375.2	SLV FO 10	0.04585	-4.90848	-0.1294	0.79	-0.0405	0.0541
63	2005	710	375.2	SLV FO 11	0.04585	4.90848	-0.1294	-0.79	-0.0405	-0.0541
63	2005	710	375.2	SLV FO 12	0.04585	4.90848	-0.1294	-0.79	-0.0405	-0.0541
63	2005	710	375.2	SLV FO 13	0.55586	-1.4726	-0.10157	0.237	-0.0071	0.0162
63	2005	710	375.2	SLV FO 14	0.55586	-1.4726	-0.10157	0.237	-0.0071	0.0162
63	2005	710	375.2	SLV FO 15	0.55586	1.4726	-0.10157	-0.237	-0.0071	-0.0162
63	2005	710	375.2	SLV FO 16	0.55586	1.4726	-0.10157	-0.237	-0.0071	-0.0162
64	2005	1210	375.2	SLU 1	-0.12745	-0.00004	-0.11204	0	-0.0351	0
64	2005	1210	375.2	SLU 2	0.05569	0.86063	-0.05374	-0.1395	0.0087	-0.0001
64	2005	1210	375.2	SLU 3	0.23833	0.86073	-0.01458	-0.1395	0.04	-0.0001
64	2005	1210	375.2	SLU 4	0.1769	-0.00025	-0.04678	0	0.0171	0
64	2005	1210	375.2	SLU 5	0.28679	0.51642	-0.0118	-0.0837	0.0434	0
64	2005	1210	375.2	SLU 6	0.00858	0.86056	-0.07111	-0.1395	-0.0041	-0.0001
64	2005	1210	375.2	SLU 7	0.19122	0.86073	-0.03195	-0.1395	0.0272	-0.0001
64	2005	1210	375.2	SLU 8	0.12979	-0.00021	-0.06414	0	0.0043	0
64	2005	1210	375.2	SLU 9	0.23968	0.51639	-0.02916	-0.0837	0.0306	-0.0001
64	2005	1210	375.2	SLU 10	-0.22162	-0.00014	-0.14676	0	-0.0607	0
64	2005	1210	375.2	SLU 11	-0.11177	0.51627	-0.11179	-0.0837	-0.0345	-0.0001
64	2005	1210	375.2	SLU 12	-0.03906	-0.00004	-0.10761	0	-0.0294	0
64	2005	1210	375.2	SLU 13	0.07084	0.51642	-0.07263	-0.0837	-0.0032	-0.0001
64	2005	1210	375.2	SLU 14	-0.17242	-0.00009	-0.12834	0	-0.0471	0
64	2005	1210	375.2	SLU 15	0.0107	0.86056	-0.07005	-0.1395	-0.0034	-0.0001
64	2005	1210	375.2	SLU 16	0.19334	0.86073	-0.03089	-0.1395	0.0279	-0.0001
64	2005	1210	375.2	SLU 17	0.13191	-0.00021	-0.06308	0	0.0051	0
64	2005	1210	375.2	SLU 18	0.2418	0.51639	-0.0281	-0.0837	0.0313	-0.0001
64	2005	1210	375.2	SLU 19	-0.03641	0.86054	-0.08741	-0.1395	-0.0162	-0.0001
64	2005	1210	375.2	SLU 20	0.14623	0.86072	-0.04825	-0.1395	0.0151	-0.0001
64	2005	1210	375.2	SLU 21	0.08481	-0.00016	-0.08044	0	-0.0078	0
64	2005	1210	375.2	SLU 22	0.19473	0.51644	-0.04547	-0.0837	0.0185	-0.0001
64	2005	1210	375.2	SLU 23	-0.26658	-0.00019	-0.16307	0	-0.0728	0
64	2005	1210	375.2	SLU 24	-0.15673	0.51629	-0.12809	-0.0837	-0.0465	-0.0001
64	2005	1210	375.2	SLU 25	-0.08404	0	-0.12391	0	-0.0415	0
64	2005	1210	375.2	SLU 26	0.02586	0.51634	-0.08893	-0.0837	-0.0152	-0.0001
64	2005	1210	375.2	SLU 27	-0.16569	-0.00005	-0.14565	0	-0.0456	0
64	2005	1210	375.2	SLU 28	0.01744	0.86062	-0.08735	-0.1395	-0.0018	-0.0001
64	2005	1210	375.2	SLU 29	0.20008	0.86072	-0.0482	-0.1395	0.0295	-0.0001
64	2005	1210	375.2	SLU 30	0.13865	-0.00024	-0.08039	0	0.0066	0
64	2005	1210	375.2	SLU 31	0.24854	0.51643	-0.04541	-0.0837	0.0329	0
64	2005	1210	375.2	SLU 32	-0.02967	0.86054	-0.10472	-0.1395	-0.0147	-0.0001
64	2005	1210	375.2	SLU 33	0.15297	0.86072	-0.06556	-0.1395	0.0167	-0.0001
64	2005	1210	375.2	SLU 34	0.09155	-0.0002	-0.09775	0	-0.0062	0
64	2005	1210	375.2	SLU 35	0.20143	0.51639	-0.06277	-0.0837	0.02	-0.0001
64	2005	1210	375.2	SLU 36	-0.25985	-0.00015	-0.18037	0	-0.0713	0
64	2005	1210	375.2	SLU 37	-0.15002	0.51626	-0.1454	-0.0837	-0.045	-0.0001
64	2005	1210	375.2	SLU 38	-0.07731	-0.00003	-0.14122	0	-0.0399	0
64	2005	1210	375.2	SLU 39	0.03259	0.51641	-0.10624	-0.0837	-0.0137	-0.0001
64	2005	1210	375.2	SLU 40	-0.21065	-0.0001	-0.16195	0	-0.0577	0
64	2005	1210	375.2	SLU 41	-0.02755	0.86054	-0.10366	-0.1395	-0.0139	-0.0001
64	2005	1210	375.2	SLU 42	0.15509	0.86072	-0.0645	-0.1395	0.0174	-0.0001
64	2005	1210	375.2	SLU 43	0.09367	-0.0002	-0.09669	0	-0.0055	0
64	2005	1210	375.2	SLU 44	0.20355	0.51639	-0.06172	-0.0837	0.0208	-0.0001
64	2005	1210	375.2	SLU 45	-0.07465	0.86049	-0.12102	-0.1395	-0.0267	-0.0001
64	2005	1210	375.2	SLU 46	0.10798	0.8607	-0.08186	-0.1395	0.0046	-0.0001
64	2005	1210	375.2	SLU 47	0.04656	-0.00015	-0.11406	0	-0.0183	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
64	2005	1210	375.2	SLU 48	0.15648	0.51644	-0.07908	-0.0837	0.008	-0.0001
64	2005	1210	375.2	SLU 49	-0.30482	-0.0002	-0.19668	0	-0.0833	0
64	2005	1210	375.2	SLU 50	-0.19498	0.51628	-0.1617	-0.0837	-0.0571	-0.0001
64	2005	1210	375.2	SLU 51	-0.12223	-0.00002	-0.15752	0	-0.052	0
64	2005	1210	375.2	SLU 52	-0.01239	0.51632	-0.12255	-0.0837	-0.0257	-0.0001
64	2005	1210	375.2	SLE RA 1	-0.15743	-0.00007	-0.12291	0	-0.0431	0
64	2005	1210	375.2	SLE RA 2	-0.03537	0.57369	-0.08405	-0.093	-0.0139	-0.0001
64	2005	1210	375.2	SLE RA 3	0.08639	0.57381	-0.05794	-0.093	0.0069	-0.0001
64	2005	1210	375.2	SLE RA 4	0.04545	-0.00013	-0.0794	0	-0.0083	0
64	2005	1210	375.2	SLE RA 5	0.1187	0.34426	-0.05608	-0.0558	0.0092	0
64	2005	1210	375.2	SLE RA 6	-0.06676	0.57363	-0.09562	-0.093	-0.0225	-0.0001
64	2005	1210	375.2	SLE RA 7	0.05499	0.57377	-0.06951	-0.093	-0.0016	-0.0001
64	2005	1210	375.2	SLE RA 8	0.01404	-0.0001	-0.09098	0	-0.0169	0
64	2005	1210	375.2	SLE RA 9	0.08732	0.34429	-0.06766	-0.0558	0.0006	0
64	2005	1210	375.2	SLE RA 10	-0.2202	-0.00014	-0.14606	0	-0.0602	0
64	2005	1210	375.2	SLE RA 11	-0.14697	0.34419	-0.12274	-0.0558	-0.0427	-0.0001
64	2005	1210	375.2	SLE RA 12	-0.09848	-0.00002	-0.11995	0	-0.0393	0
64	2005	1210	375.2	SLE RA 13	-0.02526	0.34421	-0.09664	-0.0558	-0.0218	-0.0001
64	2005	1210	375.2	SLE FR 1	-0.15743	-0.00007	-0.12291	0	-0.0431	0
64	2005	1210	375.2	SLE FR 2	-0.13302	0.11473	-0.11514	-0.0186	-0.0373	0
64	2005	1210	375.2	SLE FR 3	-0.11685	-0.00003	-0.11421	0	-0.0362	0
64	2005	1210	375.2	SLE FR 4	-0.16998	-0.00008	-0.12754	0	-0.0465	0
64	2005	1210	375.2	SLE QP 1	-0.15743	-0.00007	-0.12291	0	-0.0431	0
64	2005	1210	375.2	SLD 1	-0.46032	-0.57383	-0.13893	0.0923	-0.0626	0.0064
64	2005	1210	375.2	SLD 2	-0.46032	-0.57383	-0.13893	0.0923	-0.0626	0.0064
64	2005	1210	375.2	SLD 3	-0.37258	0.57265	-0.13467	-0.0922	-0.0572	-0.0063
64	2005	1210	375.2	SLD 4	-0.37258	0.57265	-0.13467	-0.0922	-0.0572	-0.0063
64	2005	1210	375.2	SLD 5	-0.38149	-1.91259	-0.13418	0.3078	-0.0571	0.0212
64	2005	1210	375.2	SLD 6	-0.38149	-1.91259	-0.13418	0.3078	-0.0571	0.0212
64	2005	1210	375.2	SLD 7	-0.08901	1.90869	-0.11997	-0.3072	-0.0392	-0.021
64	2005	1210	375.2	SLD 8	-0.08901	1.90869	-0.11997	-0.3072	-0.0392	-0.021
64	2005	1210	375.2	SLD 9	-0.22609	-1.91255	-0.12585	0.3078	-0.047	0.0212
64	2005	1210	375.2	SLD 10	-0.22609	-1.91255	-0.12585	0.3078	-0.047	0.0212
64	2005	1210	375.2	SLD 11	0.06637	1.90865	-0.11163	-0.3072	-0.0292	-0.021
64	2005	1210	375.2	SLD 12	0.06637	1.90865	-0.11163	-0.3072	-0.0292	-0.021
64	2005	1210	375.2	SLD 13	0.05765	-0.57366	-0.11115	0.0923	-0.029	0.0064
64	2005	1210	375.2	SLD 14	0.05765	-0.57366	-0.11115	0.0923	-0.029	0.0064
64	2005	1210	375.2	SLD 15	0.14533	0.57249	-0.10689	-0.0921	-0.0237	-0.0063
64	2005	1210	375.2	SLD 16	0.14533	0.57249	-0.10689	-0.0921	-0.0237	-0.0063
64	2005	1210	375.2	SLV 1	-0.93553	-1.47411	-0.16408	0.2372	-0.0931	0.0163
64	2005	1210	375.2	SLV 2	-0.93553	-1.47411	-0.16408	0.2372	-0.0931	0.0163
64	2005	1210	375.2	SLV 3	-0.71009	1.47109	-0.15312	-0.2368	-0.0794	-0.0162
64	2005	1210	375.2	SLV 4	-0.71009	1.47109	-0.15312	-0.2368	-0.0794	-0.0162
64	2005	1210	375.2	SLV 5	-0.733	-4.91331	-0.15187	0.7907	-0.079	0.0544
64	2005	1210	375.2	SLV 6	-0.733	-4.91331	-0.15187	0.7907	-0.079	0.0544
64	2005	1210	375.2	SLV 7	0.01843	4.90329	-0.11536	-0.7892	-0.0332	-0.0539
64	2005	1210	375.2	SLV 8	0.01843	4.90329	-0.11536	-0.7892	-0.0332	-0.0539
64	2005	1210	375.2	SLV 9	-0.33381	-4.9132	-0.13046	0.7907	-0.0531	0.0544
64	2005	1210	375.2	SLV 10	-0.33381	-4.9132	-0.13046	0.7907	-0.0531	0.0544
64	2005	1210	375.2	SLV 11	0.41758	4.90319	-0.09394	-0.7891	-0.0073	-0.0539
64	2005	1210	375.2	SLV 12	0.41758	4.90319	-0.09394	-0.7891	-0.0073	-0.0539
64	2005	1210	375.2	SLV 13	0.39508	-1.47376	-0.09269	0.2372	-0.0069	0.0163
64	2005	1210	375.2	SLV 14	0.39508	-1.47376	-0.09269	0.2372	-0.0069	0.0163
64	2005	1210	375.2	SLV 15	0.62041	1.47077	-0.08174	-0.2367	0.0069	-0.0161
64	2005	1210	375.2	SLV 16	0.62041	1.47077	-0.08174	-0.2367	0.0069	-0.0161
64	2005	1210	375.2	SLV FO 1	-0.93553	-1.47411	-0.16408	0.2372	-0.0931	0.0163
64	2005	1210	375.2	SLV FO 2	-0.93553	-1.47411	-0.16408	0.2372	-0.0931	0.0163
64	2005	1210	375.2	SLV FO 3	-0.71009	1.47109	-0.15312	-0.2368	-0.0794	-0.0162
64	2005	1210	375.2	SLV FO 4	-0.71009	1.47109	-0.15312	-0.2368	-0.0794	-0.0162
64	2005	1210	375.2	SLV FO 5	-0.733	-4.91331	-0.15187	0.7907	-0.079	0.0544
64	2005	1210	375.2	SLV FO 6	-0.733	-4.91331	-0.15187	0.7907	-0.079	0.0544
64	2005	1210	375.2	SLV FO 7	0.01843	4.90329	-0.11536	-0.7892	-0.0332	-0.0539
64	2005	1210	375.2	SLV FO 8	0.01843	4.90329	-0.11536	-0.7892	-0.0332	-0.0539
64	2005	1210	375.2	SLV FO 9	-0.33381	-4.9132	-0.13046	0.7907	-0.0531	0.0544
64	2005	1210	375.2	SLV FO 10	-0.33381	-4.9132	-0.13046	0.7907	-0.0531	0.0544
64	2005	1210	375.2	SLV FO 11	0.41758	4.90319	-0.09394	-0.7891	-0.0073	-0.0539
64	2005	1210	375.2	SLV FO 12	0.41758	4.90319	-0.09394	-0.7891	-0.0073	-0.0539
64	2005	1210	375.2	SLV FO 13	0.39508	-1.47376	-0.09269	0.2372	-0.0069	0.0163
64	2005	1210	375.2	SLV FO 14	0.39508	-1.47376	-0.09269	0.2372	-0.0069	0.0163
64	2005	1210	375.2	SLV FO 15	0.62041	1.47077	-0.08174	-0.2367	0.0069	-0.0161
64	2005	1210	375.2	SLV FO 16	0.62041	1.47077	-0.08174	-0.2367	0.0069	-0.0161
65	1835	210	396.6	SLU 1	-0.14005	0.00003	-0.21161	0	-0.0305	0
65	1835	210	396.6	SLU 2	0.0062	0.91678	-0.04026	-0.0985	0.0052	-0.0063
65	1835	210	396.6	SLU 3	0.1998	0.91687	0.08669	-0.0985	0.0314	-0.0063
65	1835	210	396.6	SLU 4	0.18274	0.00027	0.00001	0	0.0131	0
65	1835	210	396.6	SLU 5	0.27039	0.55007	0.1028	-0.0591	0.0346	-0.0038
65	1835	210	396.6	SLU 6	-0.04544	0.9167	-0.09397	-0.0985	-0.006	-0.0063
65	1835	210	396.6	SLU 7	0.14811	0.91688	0.03297	-0.0985	0.0202	-0.0063
65	1835	210	396.6	SLU 8	0.13105	0.00021	-0.05371	0	0.002	0
65	1835	210	396.6	SLU 9	0.21873	0.55005	0.04908	-0.0591	0.0234	-0.0038
65	1835	210	396.6	SLU 10	-0.2434	0.00013	-0.31904	0	-0.0529	0
65	1835	210	396.6	SLU 11	-0.15559	0.54996	-0.21622	-0.0591	-0.0314	-0.0038
65	1835	210	396.6	SLU 12	-0.04978	0.00004	-0.19208	0	-0.0267	0
65	1835	210	396.6	SLU 13	0.03795	0.55011	-0.08928	-0.0591	-0.0052	-0.0038
65	1835	210	396.6	SLU 14	-0.18933	0.00008	-0.26208	0	-0.041	0
65	1835	210	396.6	SLU 15	-0.04305	0.9167	-0.09073	-0.0985	-0.0053	-0.0063
65	1835	210	396.6	SLU 16	0.1505	0.91688	0.03622	-0.0985	0.0209	-0.0063
65	1835	210	396.6	SLU 17	0.13344	0.00022	-0.05047	0	0.0027	0
65	1835	210	396.6	SLU 18	0.22113	0.55005	0.05233	-0.0591	0.0241	-0.0038
65	1835	210	396.6	SLU 19	-0.09473	0.91669	-0.14445	-0.0985	-0.0165	-0.0063
65	1835	210	396.6	SLU 20	0.09881	0.91688	-0.0175	-0.0985	0.0097	-0.0063
65	1835	210	396.6	SLU 21	0.08175	0.00017	-0.10419	0	-0.0085	0
65	1835	210	396.6	SLU 22	0.16944	0.55012	-0.00139	-0.0591	0.0129	-0.0038
65	1835	210	396.6	SLU 23	-0.29268	0.00018	-0.36952	0	-0.0633	0
65	1835	210	396.6	SLU 24	-0.20487	0.54999	-0.2667	-0.0591	-0.0419	-0.0038
65	1835	210	396.6	SLU 25	-0.09908	0	-0.24256	0	-0.0372	0
65	1835	210	396.6	SLU 26	-0.01129	0.55003	-0.13974	-0.0591	-0.0157	-0.0038
65	1835	210	396.6	SLU 27	-0.18206	0.00004	-0.27509	0	-0.0397	0
65	1835	210	396.6	SLU 28	-0.03582	0.91678	-0.10374	-0.0985	-0.004	-0.0063
65	1835	210	396.6	SLU 29	0.15778	0.91687	0.02321	-0.0985	0.0222	-0.0063
65	1835	210	396.6	SLU 30	0.14072	0.00025	-0.06348	0	0.004	0
65	1835	210	396.6	SLU 31	0.22837	0.55007	0.03931	-0.0591	0.0254	-0.0038
65	1835	210	396.6	SLU 32	-0.08746	0.91669	-0.15745	-0.0985	-0.0151	-0.0063

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
65	1835	210	396.6	SLU 33	0.10609	0.91687	-0.03051	-0.0985	0.011	-0.0063
65	1835	210	396.6	SLU 34	0.08902	0.0002	-0.1172	0	-0.0072	0
65	1835	210	396.6	SLU 35	0.17671	0.55005	-0.0144	-0.0591	0.0142	-0.0038
65	1835	210	396.6	SLU 36	-0.28541	0.00014	-0.38252	0	-0.062	0
65	1835	210	396.6	SLU 37	-0.1976	0.54995	-0.2797	-0.0591	-0.0406	-0.0038
65	1835	210	396.6	SLU 38	-0.09181	0.00003	-0.25557	0	-0.0358	0
65	1835	210	396.6	SLU 39	-0.00408	0.5501	-0.15276	-0.0591	-0.0144	-0.0038
65	1835	210	396.6	SLU 40	-0.23134	0.00009	-0.32556	0	-0.0502	0
65	1835	210	396.6	SLU 41	-0.08506	0.91669	-0.15421	-0.0985	-0.0145	-0.0063
65	1835	210	396.6	SLU 42	0.10848	0.91687	-0.02727	-0.0985	0.0117	-0.0063
65	1835	210	396.6	SLU 43	0.09142	0.00021	-0.11395	0	-0.0065	0
65	1835	210	396.6	SLU 44	0.1791	0.55005	-0.01116	-0.0591	0.0149	-0.0038
65	1835	210	396.6	SLU 45	-0.13671	0.91664	-0.20792	-0.0985	-0.0256	-0.0063
65	1835	210	396.6	SLU 46	0.0568	0.91686	-0.08098	-0.0985	0.0006	-0.0063
65	1835	210	396.6	SLU 47	0.03972	0.00016	-0.16768	0	-0.0177	0
65	1835	210	396.6	SLU 48	0.12741	0.55012	-0.06488	-0.0591	0.0037	-0.0038
65	1835	210	396.6	SLU 49	-0.33469	0.00019	-0.433	0	-0.0725	0
65	1835	210	396.6	SLU 50	-0.24688	0.54998	-0.33018	-0.0591	-0.0511	-0.0038
65	1835	210	396.6	SLU 51	-0.14104	0.00002	-0.30603	0	-0.0463	0
65	1835	210	396.6	SLU 52	-0.0533	0.55001	-0.20323	-0.0591	-0.0249	-0.0038
65	1835	210	396.6	SLE RA 1	-0.1729	0.00007	-0.24526	0	-0.0375	0
65	1835	210	396.6	SLE RA 2	-0.07538	0.61112	-0.13102	-0.0657	-0.0137	-0.0042
65	1835	210	396.6	SLE RA 3	0.05364	0.61124	-0.04639	-0.0657	0.0037	-0.0042
65	1835	210	396.6	SLE RA 4	0.04227	0.00013	-0.10418	0	-0.0084	0
65	1835	210	396.6	SLE RA 5	0.10072	0.3667	-0.03565	-0.0394	0.0059	-0.0025
65	1835	210	396.6	SLE RA 6	-0.10979	0.61105	-0.16682	-0.0656	-0.0212	-0.0042
65	1835	210	396.6	SLE RA 7	0.01921	0.6112	-0.0822	-0.0657	-0.0037	-0.0042
65	1835	210	396.6	SLE RA 8	0.0078	0.0001	-0.14	0	-0.0159	0
65	1835	210	396.6	SLE RA 9	0.06627	0.36674	-0.07147	-0.0394	-0.0016	-0.0025
65	1835	210	396.6	SLE RA 10	-0.2418	0.00013	-0.31688	0	-0.0524	0
65	1835	210	396.6	SLE RA 11	-0.18326	0.36666	-0.24833	-0.0394	-0.0381	-0.0025
65	1835	210	396.6	SLE RA 12	-0.1127	0.00001	-0.23224	0	-0.0349	0
65	1835	210	396.6	SLE RA 13	-0.05421	0.36667	-0.1637	-0.0394	-0.0207	-0.0025
65	1835	210	396.6	SLE FR 1	-0.1729	0.00007	-0.24526	0	-0.0375	0
65	1835	210	396.6	SLE FR 2	-0.15339	0.12222	-0.22241	-0.0131	-0.0328	-0.0008
65	1835	210	396.6	SLE FR 3	-0.12987	0.00003	-0.21704	0	-0.0317	0
65	1835	210	396.6	SLE FR 4	-0.18668	0.00008	-0.25958	0	-0.0405	0
65	1835	210	396.6	SLE QP 1	-0.1729	0.00007	-0.24526	0	-0.0375	0
65	1835	210	396.6	SLD 1	-0.39275	-0.62824	-0.29463	0.0864	-0.0471	0.0087
65	1835	210	396.6	SLD 2	-0.39275	-0.62824	-0.29463	0.0864	-0.0471	0.0087
65	1835	210	396.6	SLD 3	-0.48223	0.62955	-0.31302	-0.0866	-0.0506	-0.0087
65	1835	210	396.6	SLD 4	-0.48223	0.62955	-0.31302	-0.0866	-0.0506	-0.0087
65	1835	210	396.6	SLD 5	-0.10323	-2.09394	-0.23219	0.288	-0.0351	0.029
65	1835	210	396.6	SLD 6	-0.10323	-2.09394	-0.23219	0.288	-0.0351	0.029
65	1835	210	396.6	SLD 7	-0.40151	2.0983	-0.2935	-0.2886	-0.0468	-0.029
65	1835	210	396.6	SLD 8	-0.40151	2.0983	-0.2935	-0.2886	-0.0468	-0.029
65	1835	210	396.6	SLD 9	0.05549	-2.09389	-0.19706	0.288	-0.0283	0.029
65	1835	210	396.6	SLD 10	0.05549	-2.09389	-0.19706	0.288	-0.0283	0.029
65	1835	210	396.6	SLD 11	-0.24278	2.09826	-0.25837	-0.2886	-0.04	-0.029
65	1835	210	396.6	SLD 12	-0.24278	2.09826	-0.25837	-0.2886	-0.04	-0.029
65	1835	210	396.6	SLD 13	0.13631	-0.62806	-0.17752	0.0864	-0.0244	0.0087
65	1835	210	396.6	SLD 14	0.13631	-0.62806	-0.17752	0.0864	-0.0244	0.0087
65	1835	210	396.6	SLD 15	0.04689	0.62937	-0.1959	-0.0866	-0.0279	-0.0087
65	1835	210	396.6	SLD 16	0.04689	0.62937	-0.1959	-0.0866	-0.0279	-0.0087
65	1835	210	396.6	SLV 1	-0.73764	-1.61388	-0.37208	0.222	-0.0621	0.0224
65	1835	210	396.6	SLV 2	-0.73764	-1.61388	-0.37208	0.222	-0.0621	0.0224
65	1835	210	396.6	SLV 3	-0.96754	1.61724	-0.41934	-0.2224	-0.0711	-0.0224
65	1835	210	396.6	SLV 4	-0.96754	1.61724	-0.41934	-0.2224	-0.0711	-0.0224
65	1835	210	396.6	SLV 5	0.00617	-5.37917	-0.21168	0.7399	-0.0313	0.0746
65	1835	210	396.6	SLV 6	0.00617	-5.37917	-0.21168	0.7399	-0.0313	0.0746
65	1835	210	396.6	SLV 7	-0.76017	5.39039	-0.3692	-0.7413	-0.0612	-0.0745
65	1835	210	396.6	SLV 8	-0.76017	5.39039	-0.3692	-0.7413	-0.0612	-0.0745
65	1835	210	396.6	SLV 9	0.41391	-5.37906	-0.12142	0.7399	-0.0138	0.0746
65	1835	210	396.6	SLV 10	0.41391	-5.37906	-0.12142	0.7399	-0.0138	0.0746
65	1835	210	396.6	SLV 11	-0.3524	5.39028	-0.27894	-0.7413	-0.0438	-0.0745
65	1835	210	396.6	SLV 12	-0.3524	5.39028	-0.27894	-0.7413	-0.0438	-0.0745
65	1835	210	396.6	SLV 13	0.62152	-1.6135	-0.07123	0.2219	-0.0039	0.0224
65	1835	210	396.6	SLV 14	0.62152	-1.6135	-0.07123	0.2219	-0.0039	0.0224
65	1835	210	396.6	SLV 15	0.39171	1.61687	-0.11847	-0.2224	-0.0129	-0.0224
65	1835	210	396.6	SLV 16	0.39171	1.61687	-0.11847	-0.2224	-0.0129	-0.0224
65	1835	210	396.6	SLV FO 1	-0.73764	-1.61388	-0.37208	0.222	-0.0621	0.0224
65	1835	210	396.6	SLV FO 2	-0.73764	-1.61388	-0.37208	0.222	-0.0621	0.0224
65	1835	210	396.6	SLV FO 3	-0.96754	1.61724	-0.41934	-0.2224	-0.0711	-0.0224
65	1835	210	396.6	SLV FO 4	-0.96754	1.61724	-0.41934	-0.2224	-0.0711	-0.0224
65	1835	210	396.6	SLV FO 5	0.00617	-5.37917	-0.21168	0.7399	-0.0313	0.0746
65	1835	210	396.6	SLV FO 6	0.00617	-5.37917	-0.21168	0.7399	-0.0313	0.0746
65	1835	210	396.6	SLV FO 7	-0.76017	5.39039	-0.3692	-0.7413	-0.0612	-0.0745
65	1835	210	396.6	SLV FO 8	-0.76017	5.39039	-0.3692	-0.7413	-0.0612	-0.0745
65	1835	210	396.6	SLV FO 9	0.41391	-5.37906	-0.12142	0.7399	-0.0138	0.0746
65	1835	210	396.6	SLV FO 10	0.41391	-5.37906	-0.12142	0.7399	-0.0138	0.0746
65	1835	210	396.6	SLV FO 11	-0.3524	5.39028	-0.27894	-0.7413	-0.0438	-0.0745
65	1835	210	396.6	SLV FO 12	-0.3524	5.39028	-0.27894	-0.7413	-0.0438	-0.0745
65	1835	210	396.6	SLV FO 13	0.62152	-1.6135	-0.07123	0.2219	-0.0039	0.0224
65	1835	210	396.6	SLV FO 14	0.62152	-1.6135	-0.07123	0.2219	-0.0039	0.0224
65	1835	210	396.6	SLV FO 15	0.39171	1.61687	-0.11847	-0.2224	-0.0129	-0.0224
65	1835	210	396.6	SLV FO 16	0.39171	1.61687	-0.11847	-0.2224	-0.0129	-0.0224
66	1835	710	396.6	SLU 1	-0.14967	0	-0.23553	0	-0.0355	0
66	1835	710	396.6	SLU 2	0.07439	0.91547	0.09247	-0.1307	0.0331	-0.002
66	1835	710	396.6	SLU 3	0.31411	0.91574	0.31396	-0.1308	0.0791	-0.002
66	1835	710	396.6	SLU 4	0.24979	0	0.13361	0	0.0412	0
66	1835	710	396.6	SLU 5	0.38432	0.54956	0.33043	-0.0785	0.0823	-0.0012
66	1835	710	396.6	SLU 6	0.00717	0.91534	-0.0074	-0.1307	0.0122	-0.002
66	1835	710	396.6	SLU 7	0.24695	0.91569	0.21411	-0.1308	0.0582	-0.002
66	1835	710	396.6	SLU 8	0.18263	0	0.03376	0	0.0203	0
66	1835	710	396.6	SLU 9	0.31713	0.5495	0.23057	-0.0785	0.0615	-0.0012
66	1835	710	396.6	SLU 10	-0.28411	0	-0.43526	0	-0.0772	0
66	1835	710	396.6	SLU 11	-0.14967	0.54906	-0.23846	-0.0784	-0.0361	-0.0012
66	1835	710	396.6	SLU 12	-0.04428	0	-0.21374	0	-0.0312	0
66	1835	710	396.6	SLU 13	0.09015	0.54938	-0.01695	-0.0785	0.0099	-0.0012
66	1835	710	396.6	SLU 14	-0.21371	0	-0.32925	0	-0.0551	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
66	1835	710	396.6	SLU 15	0.01034	0.91535	-0.00125	-0.1307	0.0135	-0.002
66	1835	710	396.6	SLU 16	0.25012	0.91569	0.22025	-0.1308	0.0595	-0.002
66	1835	710	396.6	SLU 17	0.1858	0	0.0399	0	0.0216	0
66	1835	710	396.6	SLU 18	0.3203	0.5495	0.23672	-0.0785	0.0628	-0.0012
66	1835	710	396.6	SLU 19	-0.05683	0.91528	-0.10111	-0.1307	-0.0074	-0.002
66	1835	710	396.6	SLU 20	0.18295	0.91565	0.1204	-0.1308	0.0386	-0.002
66	1835	710	396.6	SLU 21	0.11863	0	-0.05995	0	0.0008	0
66	1835	710	396.6	SLU 22	0.2531	0.54952	0.13685	-0.0785	0.0419	-0.0012
66	1835	710	396.6	SLU 23	-0.34815	0	-0.52898	0	-0.0968	0
66	1835	710	396.6	SLU 24	-0.21372	0.54904	-0.33218	-0.0784	-0.0557	-0.0012
66	1835	710	396.6	SLU 25	-0.10828	0	-0.30745	0	-0.0508	0
66	1835	710	396.6	SLU 26	0.0261	0.54926	-0.11067	-0.0784	-0.0097	-0.0012
66	1835	710	396.6	SLU 27	-0.19457	0	-0.30619	0	-0.0461	0
66	1835	710	396.6	SLU 28	0.02951	0.91546	0.02182	-0.1307	0.0224	-0.002
66	1835	710	396.6	SLU 29	0.26924	0.91572	0.24331	-0.1308	0.0684	-0.002
66	1835	710	396.6	SLU 30	0.20491	0	0.06296	0	0.0306	0
66	1835	710	396.6	SLU 31	0.33945	0.54955	0.25978	-0.0785	0.0717	-0.0012
66	1835	710	396.6	SLU 32	-0.03771	0.91532	-0.07805	-0.1307	0.0015	-0.002
66	1835	710	396.6	SLU 33	0.20207	0.91568	0.14345	-0.1308	0.0476	-0.002
66	1835	710	396.6	SLU 34	0.13775	0	-0.0369	0	0.0097	0
66	1835	710	396.6	SLU 35	0.27225	0.54949	0.15992	-0.0785	0.0508	-0.0012
66	1835	710	396.6	SLU 36	-0.32901	0	-0.50592	0	-0.0879	0
66	1835	710	396.6	SLU 37	-0.19456	0.54904	-0.30912	-0.0784	-0.0468	-0.0012
66	1835	710	396.6	SLU 38	-0.08915	0	-0.2844	0	-0.0419	0
66	1835	710	396.6	SLU 39	0.04527	0.54937	-0.0876	-0.0785	-0.0007	-0.0012
66	1835	710	396.6	SLU 40	-0.25861	0	-0.3999	0	-0.0657	0
66	1835	710	396.6	SLU 41	-0.03454	0.91532	-0.0719	-0.1307	0.0028	-0.002
66	1835	710	396.6	SLU 42	0.20524	0.91568	0.1496	-0.1308	0.0489	-0.002
66	1835	710	396.6	SLU 43	0.14092	0	-0.03075	0	0.011	0
66	1835	710	396.6	SLU 44	0.27542	0.54949	0.16606	-0.0785	0.0521	-0.0012
66	1835	710	396.6	SLU 45	-0.10176	0.91522	-0.17177	-0.1307	-0.018	-0.002
66	1835	710	396.6	SLU 46	0.13806	0.91561	0.04974	-0.1308	0.028	-0.002
66	1835	710	396.6	SLU 47	0.07376	0	-0.1306	0	-0.0099	0
66	1835	710	396.6	SLU 48	0.20823	0.5495	0.0662	-0.0785	0.0312	-0.0012
66	1835	710	396.6	SLU 49	-0.39305	0	-0.59964	0	-0.1075	0
66	1835	710	396.6	SLU 50	-0.2586	0.54902	-0.40284	-0.0784	-0.0663	-0.0012
66	1835	710	396.6	SLU 51	-0.15329	0	-0.37813	0	-0.0614	0
66	1835	710	396.6	SLU 52	-0.01879	0.54923	-0.18132	-0.0784	-0.0203	-0.0012
66	1835	710	396.6	SLE RA 1	-0.19236	0	-0.29801	0	-0.0485	0
66	1835	710	396.6	SLE RA 2	-0.04298	0.6102	-0.07934	-0.0871	-0.0028	-0.0013
66	1835	710	396.6	SLE RA 3	0.11688	0.61045	0.06833	-0.0872	0.0278	-0.0013
66	1835	710	396.6	SLE RA 4	0.074	0	-0.0519	0	0.0026	0
66	1835	710	396.6	SLE RA 5	0.16367	0.36632	0.07931	-0.0523	0.03	-0.0008
66	1835	710	396.6	SLE RA 6	-0.08781	0.6101	-0.14592	-0.0871	-0.0168	-0.0013
66	1835	710	396.6	SLE RA 7	0.07208	0.61037	0.00176	-0.0872	0.0139	-0.0013
66	1835	710	396.6	SLE RA 8	0.02923	0	-0.11847	0	-0.0113	0
66	1835	710	396.6	SLE RA 9	0.11887	0.36633	0.01273	-0.0523	0.0161	-0.0008
66	1835	710	396.6	SLE RA 10	-0.28199	0	-0.43116	0	-0.0764	0
66	1835	710	396.6	SLE RA 11	-0.19236	0.36602	-0.29996	-0.0523	-0.049	-0.0008
66	1835	710	396.6	SLE RA 12	-0.12215	0	-0.28349	0	-0.0457	0
66	1835	710	396.6	SLE RA 13	-0.03248	0.36614	-0.15228	-0.0523	-0.0183	-0.0008
66	1835	710	396.6	SLE FR 1	-0.19236	0	-0.29801	0	-0.0485	0
66	1835	710	396.6	SLE FR 2	-0.16249	0.12199	-0.25427	-0.0174	-0.0394	-0.0003
66	1835	710	396.6	SLE FR 3	-0.13908	0	-0.24878	0	-0.0383	0
66	1835	710	396.6	SLE FR 4	-0.21029	0	-0.32464	0	-0.0541	0
66	1835	710	396.6	SLE QP 1	-0.19236	0	-0.29801	0	-0.0485	0
66	1835	710	396.6	SLD 1	-0.48205	-0.62873	-0.36296	0.0865	-0.0611	0.0087
66	1835	710	396.6	SLD 2	-0.48205	-0.62873	-0.36296	0.0865	-0.0611	0.0087
66	1835	710	396.6	SLD 3	-0.48205	0.62873	-0.36296	-0.0865	-0.0611	-0.0087
66	1835	710	396.6	SLD 4	-0.48205	0.62873	-0.36296	-0.0865	-0.0611	-0.0087
66	1835	710	396.6	SLD 5	-0.27924	-2.09609	-0.31749	0.2883	-0.0523	0.029
66	1835	710	396.6	SLD 6	-0.27924	-2.09609	-0.31749	0.2883	-0.0523	0.029
66	1835	710	396.6	SLD 7	-0.27924	2.09609	-0.31749	-0.2883	-0.0523	-0.029
66	1835	710	396.6	SLD 8	-0.27924	2.09609	-0.31749	-0.2883	-0.0523	-0.029
66	1835	710	396.6	SLD 9	-0.10541	-2.09612	-0.27851	0.2883	-0.0448	0.029
66	1835	710	396.6	SLD 10	-0.10541	-2.09612	-0.27851	0.2883	-0.0448	0.029
66	1835	710	396.6	SLD 11	-0.10541	2.09612	-0.27851	-0.2883	-0.0448	-0.029
66	1835	710	396.6	SLD 12	-0.10541	2.09612	-0.27851	-0.2883	-0.0448	-0.029
66	1835	710	396.6	SLD 13	0.09741	-0.6288	-0.23304	0.0865	-0.0359	0.0087
66	1835	710	396.6	SLD 14	0.09741	-0.6288	-0.23304	0.0865	-0.0359	0.0087
66	1835	710	396.6	SLD 15	0.09741	0.6288	-0.23304	-0.0865	-0.0359	-0.0087
66	1835	710	396.6	SLD 16	0.09741	0.6288	-0.23304	-0.0865	-0.0359	-0.0087
66	1835	710	396.6	SLV 1	-0.93657	-1.61523	-0.46486	0.2222	-0.0809	0.0224
66	1835	710	396.6	SLV 2	-0.93657	-1.61523	-0.46486	0.2222	-0.0809	0.0224
66	1835	710	396.6	SLV 3	-0.93657	1.61523	-0.46486	-0.2222	-0.0809	-0.0224
66	1835	710	396.6	SLV 4	-0.93657	1.61523	-0.46486	-0.2222	-0.0809	-0.0224
66	1835	710	396.6	SLV 5	-0.41565	-5.38481	-0.34807	0.7406	-0.0582	0.0745
66	1835	710	396.6	SLV 6	-0.41565	-5.38481	-0.34807	0.7406	-0.0582	0.0745
66	1835	710	396.6	SLV 7	-0.41565	5.38481	-0.34807	-0.7406	-0.0582	-0.0745
66	1835	710	396.6	SLV 8	-0.41565	5.38481	-0.34807	-0.7406	-0.0582	-0.0745
66	1835	710	396.6	SLV 9	0.0309	-5.38489	-0.24796	0.7407	-0.0388	0.0745
66	1835	710	396.6	SLV 10	0.0309	-5.38489	-0.24796	0.7407	-0.0388	0.0745
66	1835	710	396.6	SLV 11	0.0309	5.38489	-0.24796	-0.7407	-0.0388	-0.0745
66	1835	710	396.6	SLV 12	0.0309	5.38489	-0.24796	-0.7407	-0.0388	-0.0745
66	1835	710	396.6	SLV 13	0.55193	-1.6155	-0.13114	0.2222	-0.0162	0.0224
66	1835	710	396.6	SLV 14	0.55193	-1.6155	-0.13114	0.2222	-0.0162	0.0224
66	1835	710	396.6	SLV 15	0.55193	1.6155	-0.13114	-0.2222	-0.0162	-0.0224
66	1835	710	396.6	SLV 16	0.55193	1.6155	-0.13114	-0.2222	-0.0162	-0.0224
66	1835	710	396.6	SLV FO 1	-0.93657	-1.61523	-0.46486	0.2222	-0.0809	0.0224
66	1835	710	396.6	SLV FO 2	-0.93657	-1.61523	-0.46486	0.2222	-0.0809	0.0224
66	1835	710	396.6	SLV FO 3	-0.93657	1.61523	-0.46486	-0.2222	-0.0809	-0.0224
66	1835	710	396.6	SLV FO 4	-0.93657	1.61523	-0.46486	-0.2222	-0.0809	-0.0224
66	1835	710	396.6	SLV FO 5	-0.41565	-5.38481	-0.34807	0.7406	-0.0582	0.0745
66	1835	710	396.6	SLV FO 6	-0.41565	-5.38481	-0.34807	0.7406	-0.0582	0.0745
66	1835	710	396.6	SLV FO 7	-0.41565	5.38481	-0.34807	-0.7406	-0.0582	-0.0745
66	1835	710	396.6	SLV FO 8	-0.41565	5.38481	-0.34807	-0.7406	-0.0582	-0.0745
66	1835	710	396.6	SLV FO 9	0.0309	-5.38489	-0.24796	0.7407	-0.0388	0.0745
66	1835	710	396.6	SLV FO 10	0.0309	-5.38489	-0.24796	0.7407	-0.0388	0.0745
66	1835	710	396.6	SLV FO 11	0.0309	5.38489	-0.24796	-0.7407	-0.0388	-0.0745
66	1835	710	396.6	SLV FO 12	0.0309	5.38489	-0.24796	-0.7407	-0.0388	-0.0745
66	1835	710	396.6	SLV FO 13	0.55193	-1.6155	-0.13114	0.2222	-0.0162	0.0224
66	1835	710	396.6	SLV FO 14	0.55193	-1.6155	-0.13114	0.2222	-0.0162	0.0224
66	1835	710	396.6	SLV FO 15	0.55193	1.6155	-0.13114	-0.2222	-0.0162	-0.0224

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
66	1835	710	396.6	SLV FO 16	0.55193	1.6155	-0.13114	-0.2222	-0.0162	-0.0224
67	1835	1210	396.6	SLU 1	-0.14005	-0.00003	-0.21161	0	-0.0305	0
67	1835	1210	396.6	SLU 2	0.0587	0.91427	-0.02963	-0.1306	0.0072	-0.002
67	1835	1210	396.6	SLU 3	0.25241	0.91436	0.09734	-0.1306	0.0334	-0.002
67	1835	1210	396.6	SLU 4	0.18274	-0.00027	0.00001	0	0.0131	0
67	1835	1210	396.6	SLU 5	0.302	0.54856	0.1092	-0.0784	0.0358	-0.0012
67	1835	1210	396.6	SLU 6	0.007	0.91419	-0.08336	-0.1305	-0.004	-0.002
67	1835	1210	396.6	SLU 7	0.20071	0.91436	0.04362	-0.1306	0.0222	-0.002
67	1835	1210	396.6	SLU 8	0.13105	-0.00021	-0.05371	0	0.002	0
67	1835	1210	396.6	SLU 9	0.2503	0.54854	0.05547	-0.0783	0.0246	-0.0012
67	1835	1210	396.6	SLU 10	-0.2434	-0.00013	-0.31904	0	-0.0529	0
67	1835	1210	396.6	SLU 11	-0.12418	0.54846	-0.20986	-0.0783	-0.0302	-0.0012
67	1835	1210	396.6	SLU 12	-0.04978	-0.00004	-0.19208	0	-0.0267	0
67	1835	1210	396.6	SLU 13	0.06949	0.5486	-0.08289	-0.0783	-0.004	-0.0012
67	1835	1210	396.6	SLU 14	-0.18933	-0.00008	-0.26208	0	-0.041	0
67	1835	1210	396.6	SLU 15	0.0094	0.91419	-0.08011	-0.1305	-0.0033	-0.002
67	1835	1210	396.6	SLU 16	0.2031	0.91436	0.04687	-0.1306	0.0229	-0.002
67	1835	1210	396.6	SLU 17	0.13344	-0.00022	-0.05047	0	0.0027	0
67	1835	1210	396.6	SLU 18	0.25269	0.54854	0.05872	-0.0783	0.0253	-0.0012
67	1835	1210	396.6	SLU 19	-0.04231	0.91418	-0.13383	-0.1305	-0.0145	-0.002
67	1835	1210	396.6	SLU 20	0.1514	0.91436	-0.00686	-0.1306	0.0117	-0.002
67	1835	1210	396.6	SLU 21	0.08175	-0.00017	-0.10419	0	-0.0085	0
67	1835	1210	396.6	SLU 22	0.20103	0.54861	0.005	-0.0783	0.0141	-0.0012
67	1835	1210	396.6	SLU 23	-0.29268	-0.00018	-0.36952	0	-0.0633	0
67	1835	1210	396.6	SLU 24	-0.17346	0.54849	-0.26034	-0.0783	-0.0407	-0.0012
67	1835	1210	396.6	SLU 25	-0.09908	0	-0.24256	0	-0.0372	0
67	1835	1210	396.6	SLU 26	0.02019	0.54852	-0.13337	-0.0783	-0.0145	-0.0012
67	1835	1210	396.6	SLU 27	-0.18206	-0.00004	-0.27509	0	-0.0397	0
67	1835	1210	396.6	SLU 28	0.01667	0.91426	-0.09312	-0.1306	-0.002	-0.002
67	1835	1210	396.6	SLU 29	0.21038	0.91435	0.03386	-0.1306	0.0242	-0.002
67	1835	1210	396.6	SLU 30	0.14072	-0.00025	-0.06348	0	0.004	0
67	1835	1210	396.6	SLU 31	0.25997	0.54856	0.04571	-0.0784	0.0266	-0.0012
67	1835	1210	396.6	SLU 32	-0.03503	0.91418	-0.14684	-0.1305	-0.0131	-0.002
67	1835	1210	396.6	SLU 33	0.15868	0.91436	-0.01986	-0.1306	0.0131	-0.002
67	1835	1210	396.6	SLU 34	0.08902	-0.0002	-0.1172	0	-0.0072	0
67	1835	1210	396.6	SLU 35	0.20827	0.54854	-0.00801	-0.0783	0.0154	-0.0012
67	1835	1210	396.6	SLU 36	-0.28541	-0.00014	-0.38252	0	-0.062	0
67	1835	1210	396.6	SLU 37	-0.16621	0.54844	-0.27335	-0.0783	-0.0394	-0.0012
67	1835	1210	396.6	SLU 38	-0.09181	-0.00003	-0.25557	0	-0.0358	0
67	1835	1210	396.6	SLU 39	0.02746	0.54859	-0.14638	-0.0783	-0.0132	-0.0012
67	1835	1210	396.6	SLU 40	-0.23134	-0.00009	-0.32556	0	-0.0502	0
67	1835	1210	396.6	SLU 41	-0.03263	0.91418	-0.1436	-0.1305	-0.0125	-0.002
67	1835	1210	396.6	SLU 42	0.16108	0.91436	-0.01662	-0.1306	0.0137	-0.002
67	1835	1210	396.6	SLU 43	0.09142	-0.00021	-0.11395	0	-0.0065	0
67	1835	1210	396.6	SLU 44	0.21067	0.54854	-0.00477	-0.0783	0.0161	-0.0012
67	1835	1210	396.6	SLU 45	-0.08432	0.91413	-0.19732	-0.1305	-0.0236	-0.002
67	1835	1210	396.6	SLU 46	0.10937	0.91434	-0.07034	-0.1306	0.0026	-0.002
67	1835	1210	396.6	SLU 47	0.03972	-0.00016	-0.16768	0	-0.0177	0
67	1835	1210	396.6	SLU 48	0.159	0.54861	-0.05848	-0.0783	0.005	-0.0012
67	1835	1210	396.6	SLU 49	-0.33469	-0.00019	-0.433	0	-0.0725	0
67	1835	1210	396.6	SLU 50	-0.21549	0.54848	-0.32382	-0.0783	-0.0499	-0.0012
67	1835	1210	396.6	SLU 51	-0.14104	-0.00002	-0.30603	0	-0.0463	0
67	1835	1210	396.6	SLU 52	-0.02184	0.5485	-0.19686	-0.0783	-0.0237	-0.0012
67	1835	1210	396.6	SLE RA 1	-0.1729	-0.00007	-0.24526	0	-0.0375	0
67	1835	1210	396.6	SLE RA 2	-0.04043	0.60945	-0.12395	-0.087	-0.0124	-0.0013
67	1835	1210	396.6	SLE RA 3	0.0887	0.60957	-0.0393	-0.087	0.0051	-0.0013
67	1835	1210	396.6	SLE RA 4	0.04227	-0.00013	-0.10418	0	-0.0084	0
67	1835	1210	396.6	SLE RA 5	0.12177	0.36569	-0.03139	-0.0522	0.0067	-0.0008
67	1835	1210	396.6	SLE RA 6	-0.07489	0.60938	-0.15976	-0.087	-0.0198	-0.0013
67	1835	1210	396.6	SLE RA 7	0.05424	0.60953	-0.07511	-0.087	-0.0024	-0.0013
67	1835	1210	396.6	SLE RA 8	0.0078	-0.0001	-0.14	0	-0.0159	0
67	1835	1210	396.6	SLE RA 9	0.08732	0.36574	-0.0672	-0.0522	-0.0008	-0.0008
67	1835	1210	396.6	SLE RA 10	-0.2418	-0.00013	-0.31688	0	-0.0524	0
67	1835	1210	396.6	SLE RA 11	-0.16233	0.36566	-0.2441	-0.0522	-0.0373	-0.0008
67	1835	1210	396.6	SLE RA 12	-0.1127	-0.00001	-0.23224	0	-0.0349	0
67	1835	1210	396.6	SLE RA 13	-0.03324	0.36566	-0.15945	-0.0522	-0.0199	-0.0008
67	1835	1210	396.6	SLE FR 1	-0.1729	-0.00007	-0.24526	0	-0.0375	0
67	1835	1210	396.6	SLE FR 2	-0.14641	0.12189	-0.221	-0.0174	-0.0325	-0.0003
67	1835	1210	396.6	SLE FR 3	-0.12987	-0.00003	-0.21704	0	-0.0317	0
67	1835	1210	396.6	SLE FR 4	-0.18668	-0.00008	-0.25958	0	-0.0405	0
67	1835	1210	396.6	SLE QP 1	-0.1729	-0.00007	-0.24526	0	-0.0375	0
67	1835	1210	396.6	SLD 1	-0.48223	-0.62955	-0.31302	0.0866	-0.0506	0.0087
67	1835	1210	396.6	SLD 2	-0.48223	-0.62955	-0.31302	0.0866	-0.0506	0.0087
67	1835	1210	396.6	SLD 3	-0.39275	0.62824	-0.29463	-0.0864	-0.0471	-0.0087
67	1835	1210	396.6	SLD 4	-0.39275	0.62824	-0.29463	-0.0864	-0.0471	-0.0087
67	1835	1210	396.6	SLD 5	-0.40151	-2.0983	-0.2935	0.2886	-0.0468	0.029
67	1835	1210	396.6	SLD 6	-0.40151	-2.0983	-0.2935	0.2886	-0.0468	0.029
67	1835	1210	396.6	SLD 7	-0.10323	2.09394	-0.23219	-0.288	-0.0351	-0.029
67	1835	1210	396.6	SLD 8	-0.10323	2.09394	-0.23219	-0.288	-0.0351	-0.029
67	1835	1210	396.6	SLD 9	-0.24278	-2.09826	-0.25837	0.2886	-0.04	0.029
67	1835	1210	396.6	SLD 10	-0.24278	-2.09826	-0.25837	0.2886	-0.04	0.029
67	1835	1210	396.6	SLD 11	0.05549	2.09389	-0.19706	-0.288	-0.0283	-0.029
67	1835	1210	396.6	SLD 12	0.05549	2.09389	-0.19706	-0.288	-0.0283	-0.029
67	1835	1210	396.6	SLD 13	0.04689	-0.62937	-0.1959	0.0866	-0.0279	0.0087
67	1835	1210	396.6	SLD 14	0.04689	-0.62937	-0.1959	0.0866	-0.0279	0.0087
67	1835	1210	396.6	SLD 15	0.13631	0.62806	-0.17752	-0.0864	-0.0244	-0.0087
67	1835	1210	396.6	SLD 16	0.13631	0.62806	-0.17752	-0.0864	-0.0244	-0.0087
67	1835	1210	396.6	SLV 1	-0.96754	-1.61724	-0.41934	0.2224	-0.0711	0.0224
67	1835	1210	396.6	SLV 2	-0.96754	-1.61724	-0.41934	0.2224	-0.0711	0.0224
67	1835	1210	396.6	SLV 3	-0.73764	1.61388	-0.37208	-0.222	-0.0621	-0.0224
67	1835	1210	396.6	SLV 4	-0.73764	1.61388	-0.37208	-0.222	-0.0621	-0.0224
67	1835	1210	396.6	SLV 5	-0.76017	-5.39039	-0.3692	0.7413	-0.0612	0.0745
67	1835	1210	396.6	SLV 6	-0.76017	-5.39039	-0.3692	0.7413	-0.0612	0.0745
67	1835	1210	396.6	SLV 7	0.00617	5.37917	-0.21168	-0.7399	-0.0313	-0.0746
67	1835	1210	396.6	SLV 8	0.00617	5.37917	-0.21168	-0.7399	-0.0313	-0.0746
67	1835	1210	396.6	SLV 9	-0.3524	-5.39028	-0.27894	0.7413	-0.0438	0.0745
67	1835	1210	396.6	SLV 10	-0.3524	-5.39028	-0.27894	0.7413	-0.0438	0.0745
67	1835	1210	396.6	SLV 11	0.41391	5.37906	-0.12142	-0.7399	-0.0138	-0.0746
67	1835	1210	396.6	SLV 12	0.41391	5.37906	-0.12142	-0.7399	-0.0138	-0.0746
67	1835	1210	396.6	SLV 13	0.39171	-1.61687	-0.11847	0.2224	-0.0129	0.0224

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
67	1835	1210	396.6	SLV 14	0.39171	-1.61687	-0.11847	0.2224	-0.0129	0.0224
67	1835	1210	396.6	SLV 15	0.62152	1.6135	-0.07123	-0.2219	-0.0039	-0.0224
67	1835	1210	396.6	SLV 16	0.62152	1.6135	-0.07123	-0.2219	-0.0039	-0.0224
67	1835	1210	396.6	SLV FO 1	-0.96754	-1.61724	-0.41934	0.2224	-0.0711	0.0224
67	1835	1210	396.6	SLV FO 2	-0.96754	-1.61724	-0.41934	0.2224	-0.0711	0.0224
67	1835	1210	396.6	SLV FO 3	-0.73764	1.61388	-0.37208	-0.222	-0.0621	-0.0224
67	1835	1210	396.6	SLV FO 4	-0.73764	1.61388	-0.37208	-0.222	-0.0621	-0.0224
67	1835	1210	396.6	SLV FO 5	-0.76017	-5.39039	-0.3692	0.7413	-0.0612	0.0745
67	1835	1210	396.6	SLV FO 6	-0.76017	-5.39039	-0.3692	0.7413	-0.0612	0.0745
67	1835	1210	396.6	SLV FO 7	0.00617	5.37917	-0.21168	-0.7399	-0.0313	-0.0746
67	1835	1210	396.6	SLV FO 8	0.00617	5.37917	-0.21168	-0.7399	-0.0313	-0.0746
67	1835	1210	396.6	SLV FO 9	-0.3524	-5.39028	-0.27894	0.7413	-0.0438	0.0745
67	1835	1210	396.6	SLV FO 10	-0.3524	-5.39028	-0.27894	0.7413	-0.0438	0.0745
67	1835	1210	396.6	SLV FO 11	0.41391	5.37906	-0.12142	-0.7399	-0.0138	-0.0746
67	1835	1210	396.6	SLV FO 12	0.41391	5.37906	-0.12142	-0.7399	-0.0138	-0.0746
67	1835	1210	396.6	SLV FO 13	0.39171	-1.61687	-0.11847	0.2224	-0.0129	0.0224
67	1835	1210	396.6	SLV FO 14	0.39171	-1.61687	-0.11847	0.2224	-0.0129	0.0224
67	1835	1210	396.6	SLV FO 15	0.62152	1.6135	-0.07123	-0.2219	-0.0039	-0.0224
67	1835	1210	396.6	SLV FO 16	0.62152	1.6135	-0.07123	-0.2219	-0.0039	-0.0224
68	1755	210	406.7	SLU 1	-0.1452	0.00003	-0.25226	0	-0.0275	0
68	1755	210	406.7	SLU 2	0.00708	0.94329	-0.03341	-0.0908	0.0051	-0.0076
68	1755	210	406.7	SLU 3	0.20501	0.94337	0.12793	-0.0908	0.0277	-0.0076
68	1755	210	406.7	SLU 4	0.18481	0.00026	0.01665	0	0.0103	0
68	1755	210	406.7	SLU 5	0.27608	0.56595	0.14794	-0.0545	0.0298	-0.0045
68	1755	210	406.7	SLU 6	-0.04643	0.94321	-0.10194	-0.0908	-0.005	-0.0076
68	1755	210	406.7	SLU 7	0.15144	0.94338	0.05938	-0.0908	0.0176	-0.0076
68	1755	210	406.7	SLU 8	0.13123	0.00021	-0.0519	0	0.0002	0
68	1755	210	406.7	SLU 9	0.22254	0.56594	0.0794	-0.0545	0.0197	-0.0046
68	1755	210	406.7	SLU 10	-0.2523	0.00013	-0.38935	0	-0.0477	0
68	1755	210	406.7	SLU 11	-0.16087	0.56587	-0.25802	-0.0545	-0.0281	-0.0046
68	1755	210	406.7	SLU 12	-0.05436	0.00004	-0.22802	0	-0.025	0
68	1755	210	406.7	SLU 13	0.03699	0.56601	-0.09671	-0.0545	-0.0055	-0.0046
68	1755	210	406.7	SLU 14	-0.19624	0.00008	-0.31666	0	-0.037	0
68	1755	210	406.7	SLU 15	-0.04392	0.94321	-0.09779	-0.0908	-0.0044	-0.0076
68	1755	210	406.7	SLU 16	0.15395	0.94338	0.06353	-0.0908	0.0183	-0.0076
68	1755	210	406.7	SLU 17	0.13374	0.00021	-0.04775	0	0.0008	0
68	1755	210	406.7	SLU 18	0.22505	0.56594	0.08355	-0.0545	0.0203	-0.0046
68	1755	210	406.7	SLU 19	-0.09748	0.9432	-0.16633	-0.0908	-0.0145	-0.0076
68	1755	210	406.7	SLU 20	0.10038	0.94339	-0.00502	-0.0908	0.0082	-0.0076
68	1755	210	406.7	SLU 21	0.08017	0.00016	-0.1163	0	-0.0093	0
68	1755	210	406.7	SLU 22	0.17148	0.56602	0.01501	-0.0545	0.0102	-0.0046
68	1755	210	406.7	SLU 23	-0.30334	0.00018	-0.45375	0	-0.0572	0
68	1755	210	406.7	SLU 24	-0.21192	0.56591	-0.32242	-0.0545	-0.0376	-0.0046
68	1755	210	406.7	SLU 25	-0.10542	-0.00001	-0.29242	0	-0.0345	0
68	1755	210	406.7	SLU 26	-0.01401	0.56593	-0.16109	-0.0545	-0.015	-0.0046
68	1755	210	406.7	SLU 27	-0.18876	0.00004	-0.32794	0	-0.0357	0
68	1755	210	406.7	SLU 28	-0.03649	0.94328	-0.10909	-0.0908	-0.0032	-0.0076
68	1755	210	406.7	SLU 29	0.16144	0.94337	0.05224	-0.0908	0.0195	-0.0076
68	1755	210	406.7	SLU 30	0.14124	0.00025	-0.05903	0	0.002	0
68	1755	210	406.7	SLU 31	0.23251	0.56595	0.07226	-0.0545	0.0216	-0.0045
68	1755	210	406.7	SLU 32	-0.09	0.9432	-0.17762	-0.0908	-0.0133	-0.0076
68	1755	210	406.7	SLU 33	0.10787	0.94338	-0.01631	-0.0908	0.0094	-0.0076
68	1755	210	406.7	SLU 34	0.08766	0.0002	-0.12758	0	-0.0081	0
68	1755	210	406.7	SLU 35	0.17897	0.56594	0.00372	-0.0545	0.0115	-0.0046
68	1755	210	406.7	SLU 36	-0.29586	0.00014	-0.46503	0	-0.0559	0
68	1755	210	406.7	SLU 37	-0.20443	0.56586	-0.3337	-0.0545	-0.0364	-0.0046
68	1755	210	406.7	SLU 38	-0.09793	0.00003	-0.3037	0	-0.0333	0
68	1755	210	406.7	SLU 39	-0.00658	0.56601	-0.17239	-0.0545	-0.0137	-0.0046
68	1755	210	406.7	SLU 40	-0.2398	0.00009	-0.39233	0	-0.0452	0
68	1755	210	406.7	SLU 41	-0.08749	0.9432	-0.17347	-0.0908	-0.0126	-0.0076
68	1755	210	406.7	SLU 42	0.11038	0.94338	-0.01215	-0.0908	0.01	-0.0076
68	1755	210	406.7	SLU 43	0.09017	0.0002	-0.12343	0	-0.0075	0
68	1755	210	406.7	SLU 44	0.18148	0.56594	0.00787	-0.0545	0.0121	-0.0046
68	1755	210	406.7	SLU 45	-0.14101	0.94314	-0.24201	-0.0908	-0.0227	-0.0076
68	1755	210	406.7	SLU 46	0.05683	0.94336	-0.0807	-0.0908	-0.0001	-0.0076
68	1755	210	406.7	SLU 47	0.0366	0.00015	-0.19198	0	-0.0176	0
68	1755	210	406.7	SLU 48	0.12791	0.56601	-0.06068	-0.0545	0.002	-0.0046
68	1755	210	406.7	SLU 49	-0.3469	0.00019	-0.52943	0	-0.0654	0
68	1755	210	406.7	SLU 50	-0.25548	0.56589	-0.39809	-0.0545	-0.0459	-0.0046
68	1755	210	406.7	SLU 51	-0.14892	0.00001	-0.36808	0	-0.0428	0
68	1755	210	406.7	SLU 52	-0.05757	0.56592	-0.23677	-0.0545	-0.0232	-0.0046
68	1755	210	406.7	SLE RA 1	-0.17923	0.00006	-0.29519	0	-0.0338	0
68	1755	210	406.7	SLE RA 2	-0.07768	0.62879	-0.14928	-0.0605	-0.0121	-0.0051
68	1755	210	406.7	SLE RA 3	0.05423	0.62892	-0.04174	-0.0606	0.003	-0.0051
68	1755	210	406.7	SLE RA 4	0.04075	0.00013	-0.11592	0	-0.0086	0
68	1755	210	406.7	SLE RA 5	0.10162	0.37729	-0.02839	-0.0363	0.0044	-0.003
68	1755	210	406.7	SLE RA 6	-0.11335	0.62872	-0.19497	-0.0605	-0.0188	-0.0051
68	1755	210	406.7	SLE RA 7	0.01855	0.62888	-0.08743	-0.0605	-0.0037	-0.0051
68	1755	210	406.7	SLE RA 8	0.00504	0.0001	-0.16162	0	-0.0154	0
68	1755	210	406.7	SLE RA 9	0.06591	0.37734	-0.07409	-0.0363	-0.0023	-0.003
68	1755	210	406.7	SLE RA 10	-0.25063	0.00013	-0.38659	0	-0.0473	0
68	1755	210	406.7	SLE RA 11	-0.18968	0.37727	-0.29903	-0.0363	-0.0342	-0.003
68	1755	210	406.7	SLE RA 12	-0.11864	0.00001	-0.27902	0	-0.0322	0
68	1755	210	406.7	SLE RA 13	-0.05774	0.37727	-0.19148	-0.0363	-0.0191	-0.003
68	1755	210	406.7	SLE FR 1	-0.17923	0.00006	-0.29519	0	-0.0338	0
68	1755	210	406.7	SLE FR 2	-0.15891	0.12576	-0.26601	-0.0121	-0.0295	-0.001
68	1755	210	406.7	SLE FR 3	-0.13523	0.00003	-0.25934	0	-0.0288	0
68	1755	210	406.7	SLE FR 4	-0.19351	0.00008	-0.31347	0	-0.0365	0
68	1755	210	406.7	SLE QP 1	-0.17923	0.00006	-0.29519	0	-0.0338	0
68	1755	210	406.7	SLD 1	-0.40052	-0.65623	-0.35625	0.0837	-0.0399	0.0101
68	1755	210	406.7	SLD 2	-0.40052	-0.65623	-0.35625	0.0837	-0.0399	0.0101
68	1755	210	406.7	SLD 3	-0.4905	0.65756	-0.37884	-0.0839	-0.0419	-0.01
68	1755	210	406.7	SLD 4	-0.4905	0.65756	-0.37884	-0.0839	-0.0419	-0.01
68	1755	210	406.7	SLD 5	-0.10923	-2.18722	-0.27927	0.2791	-0.0325	0.0335
68	1755	210	406.7	SLD 6	-0.10923	-2.18722	-0.27927	0.2791	-0.0325	0.0335
68	1755	210	406.7	SLD 7	-0.40917	2.19163	-0.35459	-0.2796	-0.0394	-0.0335
68	1755	210	406.7	SLD 8	-0.40917	2.19163	-0.35459	-0.2796	-0.0394	-0.0335
68	1755	210	406.7	SLD 9	0.05052	-2.18718	-0.23586	0.2791	-0.0283	0.0335
68	1755	210	406.7	SLD 10	0.05052	-2.18718	-0.23586	0.2791	-0.0283	0.0335
68	1755	210	406.7	SLD 11	-0.24941	2.19159	-0.31118	-0.2796	-0.0351	-0.0335
68	1755	210	406.7	SLD 12	-0.24941	2.19159	-0.31118	-0.2796	-0.0351	-0.0335
68	1755	210	406.7	SLD 13	0.13194	-0.65605	-0.21157	0.0837	-0.0257	0.0101
68	1755	210	406.7	SLD 14	0.13194	-0.65605	-0.21157	0.0837	-0.0257	0.0101

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
68	1755	210	406.7	SLD 15	0.04201	0.65737	-0.23415	-0.0839	-0.0278	-0.01
68	1755	210	406.7	SLD 16	0.04201	0.65737	-0.23415	-0.0839	-0.0278	-0.01
68	1755	210	406.7	SLV 1	-0.74769	-1.68577	-0.45203	0.2151	-0.0494	0.0258
68	1755	210	406.7	SLV 2	-0.74769	-1.68577	-0.45203	0.2151	-0.0494	0.0258
68	1755	210	406.7	SLV 3	-0.97887	1.68917	-0.51009	-0.2155	-0.0546	-0.0258
68	1755	210	406.7	SLV 4	-0.97887	1.68917	-0.51009	-0.2155	-0.0546	-0.0258
68	1755	210	406.7	SLV 5	0.00069	-5.61881	-0.25426	0.7169	-0.0305	0.0862
68	1755	210	406.7	SLV 6	0.00069	-5.61881	-0.25426	0.7169	-0.0305	0.0862
68	1755	210	406.7	SLV 7	-0.76992	5.63013	-0.44777	-0.7183	-0.0481	-0.086
68	1755	210	406.7	SLV 8	-0.76992	5.63013	-0.44777	-0.7183	-0.0481	-0.086
68	1755	210	406.7	SLV 9	0.41106	-5.61869	-0.14276	0.7169	-0.0195	0.0862
68	1755	210	406.7	SLV 10	0.41106	-5.61869	-0.14276	0.7169	-0.0195	0.0862
68	1755	210	406.7	SLV 11	-0.35952	5.63002	-0.33626	-0.7183	-0.0372	-0.086
68	1755	210	406.7	SLV 12	-0.35952	5.63002	-0.33626	-0.7183	-0.0372	-0.086
68	1755	210	406.7	SLV 13	0.62021	-1.6854	-0.08036	0.215	-0.013	0.0259
68	1755	210	406.7	SLV 14	0.62021	-1.6854	-0.08036	0.215	-0.013	0.0259
68	1755	210	406.7	SLV 15	0.38912	1.6888	-0.13839	-0.2155	-0.0183	-0.0258
68	1755	210	406.7	SLV 16	0.38912	1.6888	-0.13839	-0.2155	-0.0183	-0.0258
68	1755	210	406.7	SLV FO 1	-0.74769	-1.68577	-0.45203	0.2151	-0.0494	0.0258
68	1755	210	406.7	SLV FO 2	-0.74769	-1.68577	-0.45203	0.2151	-0.0494	0.0258
68	1755	210	406.7	SLV FO 3	-0.97887	1.68917	-0.51009	-0.2155	-0.0546	-0.0258
68	1755	210	406.7	SLV FO 4	-0.97887	1.68917	-0.51009	-0.2155	-0.0546	-0.0258
68	1755	210	406.7	SLV FO 5	0.00069	-5.61881	-0.25426	0.7169	-0.0305	0.0862
68	1755	210	406.7	SLV FO 6	0.00069	-5.61881	-0.25426	0.7169	-0.0305	0.0862
68	1755	210	406.7	SLV FO 7	-0.76992	5.63013	-0.44777	-0.7183	-0.0481	-0.086
68	1755	210	406.7	SLV FO 8	-0.76992	5.63013	-0.44777	-0.7183	-0.0481	-0.086
68	1755	210	406.7	SLV FO 9	0.41106	-5.61869	-0.14276	0.7169	-0.0195	0.0862
68	1755	210	406.7	SLV FO 10	0.41106	-5.61869	-0.14276	0.7169	-0.0195	0.0862
68	1755	210	406.7	SLV FO 11	-0.35952	5.63002	-0.33626	-0.7183	-0.0372	-0.086
68	1755	210	406.7	SLV FO 12	-0.35952	5.63002	-0.33626	-0.7183	-0.0372	-0.086
68	1755	210	406.7	SLV FO 13	0.62021	-1.6854	-0.08036	0.215	-0.013	0.0259
68	1755	210	406.7	SLV FO 14	0.62021	-1.6854	-0.08036	0.215	-0.013	0.0259
68	1755	210	406.7	SLV FO 15	0.38912	1.6888	-0.13839	-0.2155	-0.0183	-0.0258
68	1755	210	406.7	SLV FO 16	0.38912	1.6888	-0.13839	-0.2155	-0.0183	-0.0258
69	1755	710	406.7	SLU 1	-0.15568	0	-0.28293	0	-0.0323	0
69	1755	710	406.7	SLU 2	0.08	0.94159	0.13662	-0.1266	0.0311	-0.0033
69	1755	710	406.7	SLU 3	0.32741	0.94185	0.41907	-0.1266	0.0723	-0.0033
69	1755	710	406.7	SLU 4	0.2566	0	0.18781	0	0.0365	0
69	1755	710	406.7	SLU 5	0.3981	0.5652	0.43956	-0.076	0.0745	-0.0019
69	1755	710	406.7	SLU 6	0.00924	0.94146	0.00885	-0.1266	0.0118	-0.0033
69	1755	710	406.7	SLU 7	0.25671	0.94181	0.29132	-0.1266	0.053	-0.0033
69	1755	710	406.7	SLU 8	0.1859	0	0.06005	0	0.0171	0
69	1755	710	406.7	SLU 9	0.32737	0.56516	0.3118	-0.076	0.0552	-0.002
69	1755	710	406.7	SLU 10	-0.2972	0	-0.53847	0	-0.0709	0
69	1755	710	406.7	SLU 11	-0.15579	0.56474	-0.28674	-0.0759	-0.0329	-0.002
69	1755	710	406.7	SLU 12	-0.04968	0	-0.25599	0	-0.0297	0
69	1755	710	406.7	SLU 13	0.09173	0.56506	-0.00426	-0.076	0.0083	-0.002
69	1755	710	406.7	SLU 14	-0.22304	0	-0.40281	0	-0.0504	0
69	1755	710	406.7	SLU 15	0.01263	0.94146	0.01674	-0.1266	0.013	-0.0033
69	1755	710	406.7	SLU 16	0.2601	0.94181	0.29921	-0.1266	0.0542	-0.0033
69	1755	710	406.7	SLU 17	0.18929	0	0.06794	0	0.0184	0
69	1755	710	406.7	SLU 18	0.33077	0.56516	0.31969	-0.076	0.0564	-0.002
69	1755	710	406.7	SLU 19	-0.05809	0.9414	-0.11102	-0.1266	-0.0063	-0.0033
69	1755	710	406.7	SLU 20	0.1894	0.94177	0.17145	-0.1266	0.0349	-0.0033
69	1755	710	406.7	SLU 21	0.11859	0	-0.05981	0	-0.001	0
69	1755	710	406.7	SLU 22	0.26003	0.56518	0.19193	-0.076	0.0371	-0.002
69	1755	710	406.7	SLU 23	-0.36456	0	-0.65835	0	-0.0891	0
69	1755	710	406.7	SLU 24	-0.22315	0.56472	-0.40662	-0.0759	-0.051	-0.002
69	1755	710	406.7	SLU 25	-0.11699	0	-0.37586	0	-0.0478	0
69	1755	710	406.7	SLU 26	0.02436	0.56493	-0.12414	-0.0759	-0.0098	-0.002
69	1755	710	406.7	SLU 27	-0.20239	0	-0.36781	0	-0.042	0
69	1755	710	406.7	SLU 28	0.03331	0.94157	0.05174	-0.1266	0.0214	-0.0033
69	1755	710	406.7	SLU 29	0.28073	0.94184	0.3342	-0.1266	0.0627	-0.0033
69	1755	710	406.7	SLU 30	0.20992	0	0.10293	0	0.0268	0
69	1755	710	406.7	SLU 31	0.35143	0.5652	0.35469	-0.076	0.0648	-0.0019
69	1755	710	406.7	SLU 32	-0.03745	0.94144	-0.07603	-0.1266	0.0021	-0.0033
69	1755	710	406.7	SLU 33	0.21003	0.94179	0.20644	-0.1266	0.0433	-0.0033
69	1755	710	406.7	SLU 34	0.13922	0	-0.02482	0	0.0075	0
69	1755	710	406.7	SLU 35	0.28069	0.56515	0.22693	-0.076	0.0455	-0.002
69	1755	710	406.7	SLU 36	-0.3439	0	-0.62335	0	-0.0806	0
69	1755	710	406.7	SLU 37	-0.20249	0.56472	-0.37162	-0.0759	-0.0426	-0.002
69	1755	710	406.7	SLU 38	-0.09635	0	-0.34086	0	-0.0394	0
69	1755	710	406.7	SLU 39	0.04505	0.56504	-0.08913	-0.076	-0.0013	-0.002
69	1755	710	406.7	SLU 40	-0.26975	0	-0.48769	0	-0.0601	0
69	1755	710	406.7	SLU 41	-0.03406	0.94144	-0.06814	-0.1266	0.0033	-0.0033
69	1755	710	406.7	SLU 42	0.21342	0.94179	0.21433	-0.1266	0.0446	-0.0033
69	1755	710	406.7	SLU 43	0.14261	0	-0.01693	0	0.0087	0
69	1755	710	406.7	SLU 44	0.28409	0.56515	0.23482	-0.076	0.0467	-0.002
69	1755	710	406.7	SLU 45	-0.10481	0.94134	-0.19591	-0.1266	-0.016	-0.0033
69	1755	710	406.7	SLU 46	0.1427	0.94173	0.08658	-0.1266	0.0252	-0.0033
69	1755	710	406.7	SLU 47	0.07191	0	-0.14469	0	-0.0106	0
69	1755	710	406.7	SLU 48	0.21335	0.56517	0.10705	-0.076	0.0274	-0.002
69	1755	710	406.7	SLU 49	-0.41126	0	-0.74323	0	-0.0987	0
69	1755	710	406.7	SLU 50	-0.26985	0.5647	-0.4915	-0.0759	-0.0607	-0.002
69	1755	710	406.7	SLU 51	-0.16381	0	-0.46076	0	-0.0575	0
69	1755	710	406.7	SLU 52	-0.02234	0.5649	-0.20902	-0.0759	-0.0195	-0.002
69	1755	710	406.7	SLE RA 1	-0.20059	0	-0.36285	0	-0.0444	0
69	1755	710	406.7	SLE RA 2	-0.04346	0.62762	-0.08315	-0.0844	-0.0021	-0.0022
69	1755	710	406.7	SLE RA 3	0.12153	0.62786	0.10517	-0.0844	0.0254	-0.0022
69	1755	710	406.7	SLE RA 4	0.07433	0	-0.04901	0	0.0015	0
69	1755	710	406.7	SLE RA 5	0.16864	0.37676	0.11882	-0.0507	0.0268	-0.0013
69	1755	710	406.7	SLE RA 6	-0.09065	0.62751	-0.16833	-0.0844	-0.015	-0.0022
69	1755	710	406.7	SLE RA 7	0.07437	0.62778	0.01999	-0.0844	0.0125	-0.0022
69	1755	710	406.7	SLE RA 8	0.0272	0	-0.13418	0	-0.0114	0
69	1755	710	406.7	SLE RA 9	0.12149	0.37677	0.03365	-0.0507	0.0139	-0.0013
69	1755	710	406.7	SLE RA 10	-0.29493	0	-0.53321	0	-0.0701	0
69	1755	710	406.7	SLE RA 11	-0.20066	0.37647	-0.36539	-0.0506	-0.0448	-0.0013
69	1755	710	406.7	SLE RA 12	-0.12996	0	-0.3449	0	-0.0426	0
69	1755	710	406.7	SLE RA 13	-0.03564	0.37659	-0.17707	-0.0506	-0.0173	-0.0013
69	1755	710	406.7	SLE FR 1	-0.20059	0	-0.36285	0	-0.0444	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
69	1755	710	406.7	SLE FR 2	-0.16916	0.12548	-0.30691	-0.0169	-0.0359	-0.0004
69	1755	710	406.7	SLE FR 3	-0.1456	0	-0.30008	0	-0.0352	0
69	1755	710	406.7	SLE FR 4	-0.21946	0	-0.39693	0	-0.0495	0
69	1755	710	406.7	SLE QP 1	-0.20059	0	-0.36285	0	-0.0444	0
69	1755	710	406.7	SLD 1	-0.49217	-0.65672	-0.44316	0.0838	-0.0523	0.0101
69	1755	710	406.7	SLD 2	-0.49217	-0.65672	-0.44316	0.0838	-0.0523	0.0101
69	1755	710	406.7	SLD 3	-0.49217	0.65672	-0.44316	-0.0838	-0.0523	-0.0101
69	1755	710	406.7	SLD 4	-0.49217	0.65672	-0.44316	-0.0838	-0.0523	-0.0101
69	1755	710	406.7	SLD 5	-0.28801	-2.18937	-0.38695	0.2794	-0.0467	0.0335
69	1755	710	406.7	SLD 6	-0.28801	-2.18937	-0.38695	0.2794	-0.0467	0.0335
69	1755	710	406.7	SLD 7	-0.28801	2.18937	-0.38695	-0.2794	-0.0467	-0.0335
69	1755	710	406.7	SLD 8	-0.28801	2.18937	-0.38695	-0.2794	-0.0467	-0.0335
69	1755	710	406.7	SLD 9	-0.11305	-2.18941	-0.33876	0.2794	-0.042	0.0335
69	1755	710	406.7	SLD 10	-0.11305	-2.18941	-0.33876	0.2794	-0.042	0.0335
69	1755	710	406.7	SLD 11	-0.11305	2.18941	-0.33876	-0.2794	-0.042	-0.0335
69	1755	710	406.7	SLD 12	-0.11305	2.18941	-0.33876	-0.2794	-0.042	-0.0335
69	1755	710	406.7	SLD 13	0.09109	-0.65678	-0.28253	0.0838	-0.0364	0.0101
69	1755	710	406.7	SLD 14	0.09109	-0.65678	-0.28253	0.0838	-0.0364	0.0101
69	1755	710	406.7	SLD 15	0.09109	0.65678	-0.28253	-0.0838	-0.0364	-0.0101
69	1755	710	406.7	SLD 16	0.09109	0.65678	-0.28253	-0.0838	-0.0364	-0.0101
69	1755	710	406.7	SLV 1	-0.94965	-1.68712	-0.56916	0.2153	-0.0648	0.0258
69	1755	710	406.7	SLV 2	-0.94965	-1.68712	-0.56916	0.2153	-0.0648	0.0258
69	1755	710	406.7	SLV 3	-0.94965	1.68712	-0.56916	-0.2153	-0.0648	-0.0258
69	1755	710	406.7	SLV 4	-0.94965	1.68712	-0.56916	-0.2153	-0.0648	-0.0258
69	1755	710	406.7	SLV 5	-0.42529	-5.62444	-0.42477	0.7177	-0.0505	0.086
69	1755	710	406.7	SLV 6	-0.42529	-5.62444	-0.42477	0.7177	-0.0505	0.086
69	1755	710	406.7	SLV 7	-0.42529	5.62444	-0.42477	-0.7177	-0.0505	-0.086
69	1755	710	406.7	SLV 8	-0.42529	5.62444	-0.42477	-0.7177	-0.0505	-0.086
69	1755	710	406.7	SLV 9	0.02419	-5.62452	-0.30099	0.7177	-0.0382	0.086
69	1755	710	406.7	SLV 10	0.02419	-5.62452	-0.30099	0.7177	-0.0382	0.086
69	1755	710	406.7	SLV 11	0.02419	5.62452	-0.30099	-0.7177	-0.0382	-0.086
69	1755	710	406.7	SLV 12	0.02419	5.62452	-0.30099	-0.7177	-0.0382	-0.086
69	1755	710	406.7	SLV 13	0.54859	-1.68739	-0.15654	0.2153	-0.024	0.0258
69	1755	710	406.7	SLV 14	0.54859	-1.68739	-0.15654	0.2153	-0.024	0.0258
69	1755	710	406.7	SLV 15	0.54859	1.68739	-0.15654	-0.2153	-0.024	-0.0258
69	1755	710	406.7	SLV 16	0.54859	1.68739	-0.15654	-0.2153	-0.024	-0.0258
69	1755	710	406.7	SLV FO 1	-0.94965	-1.68712	-0.56916	0.2153	-0.0648	0.0258
69	1755	710	406.7	SLV FO 2	-0.94965	-1.68712	-0.56916	0.2153	-0.0648	0.0258
69	1755	710	406.7	SLV FO 3	-0.94965	1.68712	-0.56916	-0.2153	-0.0648	-0.0258
69	1755	710	406.7	SLV FO 4	-0.94965	1.68712	-0.56916	-0.2153	-0.0648	-0.0258
69	1755	710	406.7	SLV FO 5	-0.42529	-5.62444	-0.42477	0.7177	-0.0505	0.086
69	1755	710	406.7	SLV FO 6	-0.42529	-5.62444	-0.42477	0.7177	-0.0505	0.086
69	1755	710	406.7	SLV FO 7	-0.42529	5.62444	-0.42477	-0.7177	-0.0505	-0.086
69	1755	710	406.7	SLV FO 8	-0.42529	5.62444	-0.42477	-0.7177	-0.0505	-0.086
69	1755	710	406.7	SLV FO 9	0.02419	-5.62452	-0.30099	0.7177	-0.0382	0.086
69	1755	710	406.7	SLV FO 10	0.02419	-5.62452	-0.30099	0.7177	-0.0382	0.086
69	1755	710	406.7	SLV FO 11	0.02419	5.62452	-0.30099	-0.7177	-0.0382	-0.086
69	1755	710	406.7	SLV FO 12	0.02419	5.62452	-0.30099	-0.7177	-0.0382	-0.086
69	1755	710	406.7	SLV FO 13	0.54859	-1.68739	-0.15654	0.2153	-0.024	0.0258
69	1755	710	406.7	SLV FO 14	0.54859	-1.68739	-0.15654	0.2153	-0.024	0.0258
69	1755	710	406.7	SLV FO 15	0.54859	1.68739	-0.15654	-0.2153	-0.024	-0.0258
69	1755	710	406.7	SLV FO 16	0.54859	1.68739	-0.15654	-0.2153	-0.024	-0.0258
70	1755	1210	406.7	SLU 1	-0.1452	-0.00003	-0.25226	0	-0.0275	0
70	1755	1210	406.7	SLU 2	0.05985	0.94045	-0.02038	-0.1264	0.0062	-0.0034
70	1755	1210	406.7	SLU 3	0.25789	0.94053	0.14098	-0.1264	0.0289	-0.0033
70	1755	1210	406.7	SLU 4	0.18481	-0.00026	0.01665	0	0.0103	0
70	1755	1210	406.7	SLU 5	0.30785	0.56424	0.15578	-0.0759	0.0305	-0.002
70	1755	1210	406.7	SLU 6	0.00628	0.94037	-0.08893	-0.1264	-0.0039	-0.0034
70	1755	1210	406.7	SLU 7	0.20431	0.94054	0.07243	-0.1264	0.0188	-0.0034
70	1755	1210	406.7	SLU 8	0.13123	-0.00021	-0.0519	0	0.0002	0
70	1755	1210	406.7	SLU 9	0.25427	0.56424	0.08723	-0.0759	0.0204	-0.002
70	1755	1210	406.7	SLU 10	-0.2523	-0.00013	-0.38935	0	-0.0477	0
70	1755	1210	406.7	SLU 11	-0.12931	0.56417	-0.25023	-0.0758	-0.0275	-0.002
70	1755	1210	406.7	SLU 12	-0.05436	-0.00004	-0.22802	0	-0.025	0
70	1755	1210	406.7	SLU 13	0.0687	0.56431	-0.08888	-0.0759	-0.0048	-0.002
70	1755	1210	406.7	SLU 14	-0.19624	-0.00008	-0.31666	0	-0.037	0
70	1755	1210	406.7	SLU 15	0.00879	0.94037	-0.08478	-0.1264	-0.0032	-0.0034
70	1755	1210	406.7	SLU 16	0.20682	0.94054	0.07658	-0.1264	0.0194	-0.0034
70	1755	1210	406.7	SLU 17	0.13374	-0.00021	-0.04775	0	0.0008	0
70	1755	1210	406.7	SLU 18	0.25678	0.56424	0.09139	-0.0759	0.021	-0.002
70	1755	1210	406.7	SLU 19	-0.04479	0.94036	-0.15333	-0.1264	-0.0133	-0.0034
70	1755	1210	406.7	SLU 20	0.15324	0.94054	0.00803	-0.1264	0.0093	-0.0034
70	1755	1210	406.7	SLU 21	0.08017	-0.00016	-0.1163	0	-0.0093	0
70	1755	1210	406.7	SLU 22	0.20324	0.56431	0.02284	-0.0759	0.0109	-0.002
70	1755	1210	406.7	SLU 23	-0.30334	-0.00018	-0.45375	0	-0.0572	0
70	1755	1210	406.7	SLU 24	-0.18035	0.5642	-0.31462	-0.0758	-0.0369	-0.002
70	1755	1210	406.7	SLU 25	-0.10542	0.00001	-0.29242	0	-0.0345	0
70	1755	1210	406.7	SLU 26	0.01763	0.56423	-0.15328	-0.0758	-0.0143	-0.002
70	1755	1210	406.7	SLU 27	-0.18876	-0.00004	-0.32794	0	-0.0357	0
70	1755	1210	406.7	SLU 28	0.01628	0.94044	-0.09606	-0.1264	-0.002	-0.0034
70	1755	1210	406.7	SLU 29	0.21432	0.94053	0.0653	-0.1264	0.0206	-0.0034
70	1755	1210	406.7	SLU 30	0.14124	-0.00025	-0.05903	0	0.002	0
70	1755	1210	406.7	SLU 31	0.26427	0.56424	0.0801	-0.0759	0.0223	-0.002
70	1755	1210	406.7	SLU 32	-0.0373	0.94035	-0.16461	-0.1264	-0.0121	-0.0034
70	1755	1210	406.7	SLU 33	0.16074	0.94053	-0.00326	-0.1264	0.0105	-0.0034
70	1755	1210	406.7	SLU 34	0.08766	-0.0002	-0.12758	0	-0.0081	0
70	1755	1210	406.7	SLU 35	0.2107	0.56424	0.01155	-0.0759	0.0122	-0.002
70	1755	1210	406.7	SLU 36	-0.29586	-0.00014	-0.46503	0	-0.0559	0
70	1755	1210	406.7	SLU 37	-0.17288	0.56416	-0.32591	-0.0758	-0.0357	-0.002
70	1755	1210	406.7	SLU 38	-0.09793	-0.00003	-0.3037	0	-0.0333	0
70	1755	1210	406.7	SLU 39	0.02512	0.5643	-0.16457	-0.0759	-0.0131	-0.002
70	1755	1210	406.7	SLU 40	-0.2398	-0.00009	-0.39233	0	-0.0452	0
70	1755	1210	406.7	SLU 41	-0.03479	0.94036	-0.16046	-0.1264	-0.0115	-0.0034
70	1755	1210	406.7	SLU 42	0.16325	0.94053	0.0009	-0.1264	0.0112	-0.0034
70	1755	1210	406.7	SLU 43	0.09017	-0.0002	-0.12343	0	-0.0075	0
70	1755	1210	406.7	SLU 44	0.21321	0.56424	0.0157	-0.0759	0.0128	-0.002
70	1755	1210	406.7	SLU 45	-0.08836	0.9403	-0.22901	-0.1264	-0.0216	-0.0034
70	1755	1210	406.7	SLU 46	0.10967	0.94052	-0.06765	-0.1264	0.0011	-0.0034
70	1755	1210	406.7	SLU 47	0.0366	-0.00015	-0.19198	0	-0.0176	0
70	1755	1210	406.7	SLU 48	0.15966	0.56431	-0.05284	-0.0759	0.0027	-0.002
70	1755	1210	406.7	SLU 49	-0.3469	-0.00019	-0.52943	0	-0.0654	0
70	1755	1210	406.7	SLU 50	-0.22392	0.56419	-0.3903	-0.0758	-0.0452	-0.002
70	1755	1210	406.7	SLU 51	-0.14892	-0.00001	-0.36808	0	-0.0428	0

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
70	1755	1210	406.7	SLU 52	-0.02594	0.56421	-0.22896	-0.0758	-0.0225	-0.002
70	1755	1210	406.7	SLE RA 1	-0.17923	-0.00006	-0.29519	0	-0.0338	0
70	1755	1210	406.7	SLE RA 2	-0.04256	0.6269	-0.14061	-0.0843	-0.0113	-0.0022
70	1755	1210	406.7	SLE RA 3	0.08947	0.62702	-0.03304	-0.0843	0.0038	-0.0022
70	1755	1210	406.7	SLE RA 4	0.04075	-0.00013	-0.11592	0	-0.0086	0
70	1755	1210	406.7	SLE RA 5	0.12277	0.37616	-0.02317	-0.0506	0.0049	-0.0013
70	1755	1210	406.7	SLE RA 6	-0.07827	0.62683	-0.18631	-0.0843	-0.0181	-0.0022
70	1755	1210	406.7	SLE RA 7	0.05375	0.62698	-0.07874	-0.0843	-0.003	-0.0022
70	1755	1210	406.7	SLE RA 8	0.00504	-0.0001	-0.16162	0	-0.0154	0
70	1755	1210	406.7	SLE RA 9	0.08708	0.37621	-0.06886	-0.0506	-0.0019	-0.0013
70	1755	1210	406.7	SLE RA 10	-0.25063	-0.00013	-0.38659	0	-0.0473	0
70	1755	1210	406.7	SLE RA 11	-0.16864	0.37613	-0.29384	-0.0506	-0.0338	-0.0014
70	1755	1210	406.7	SLE RA 12	-0.11864	-0.00001	-0.27902	0	-0.0322	0
70	1755	1210	406.7	SLE RA 13	-0.03666	0.37614	-0.18628	-0.0506	-0.0187	-0.0013
70	1755	1210	406.7	SLE FR 1	-0.17923	-0.00006	-0.29519	0	-0.0338	0
70	1755	1210	406.7	SLE FR 2	-0.1519	0.12539	-0.26428	-0.0169	-0.0293	-0.0005
70	1755	1210	406.7	SLE FR 3	-0.13523	-0.00003	-0.25934	0	-0.0288	0
70	1755	1210	406.7	SLE FR 4	-0.19351	-0.00008	-0.31347	0	-0.0365	0
70	1755	1210	406.7	SLE QP 1	-0.17923	-0.00006	-0.29519	0	-0.0338	0
70	1755	1210	406.7	SLD 1	-0.4905	-0.65756	-0.37884	0.0839	-0.0419	0.01
70	1755	1210	406.7	SLD 2	-0.4905	-0.65756	-0.37884	0.0839	-0.0419	0.01
70	1755	1210	406.7	SLD 3	-0.40052	0.65623	-0.35625	-0.0837	-0.0399	-0.0101
70	1755	1210	406.7	SLD 4	-0.40052	0.65623	-0.35625	-0.0837	-0.0399	-0.0101
70	1755	1210	406.7	SLD 5	-0.40917	-2.19163	-0.35459	0.2796	-0.0394	0.0335
70	1755	1210	406.7	SLD 6	-0.40917	-2.19163	-0.35459	0.2796	-0.0394	0.0335
70	1755	1210	406.7	SLD 7	-0.10923	2.18722	-0.27927	-0.2791	-0.0325	-0.0335
70	1755	1210	406.7	SLD 8	-0.10923	2.18722	-0.27927	-0.2791	-0.0325	-0.0335
70	1755	1210	406.7	SLD 9	-0.24941	-2.19159	-0.31118	0.2796	-0.0351	0.0335
70	1755	1210	406.7	SLD 10	-0.24941	-2.19159	-0.31118	0.2796	-0.0351	0.0335
70	1755	1210	406.7	SLD 11	0.05052	2.18718	-0.23586	-0.2791	-0.0283	-0.0335
70	1755	1210	406.7	SLD 12	0.05052	2.18718	-0.23586	-0.2791	-0.0283	-0.0335
70	1755	1210	406.7	SLD 13	0.04201	-0.65737	-0.23415	0.0839	-0.0278	0.01
70	1755	1210	406.7	SLD 14	0.04201	-0.65737	-0.23415	0.0839	-0.0278	0.01
70	1755	1210	406.7	SLD 15	0.13194	0.65605	-0.21157	-0.0837	-0.0257	-0.0101
70	1755	1210	406.7	SLD 16	0.13194	0.65605	-0.21157	-0.0837	-0.0257	-0.0101
70	1755	1210	406.7	SLV 1	-0.97887	-1.68917	-0.51009	0.2155	-0.0546	0.0258
70	1755	1210	406.7	SLV 2	-0.97887	-1.68917	-0.51009	0.2155	-0.0546	0.0258
70	1755	1210	406.7	SLV 3	-0.74769	1.68577	-0.45203	-0.2151	-0.0494	-0.0258
70	1755	1210	406.7	SLV 4	-0.74769	1.68577	-0.45203	-0.2151	-0.0494	-0.0258
70	1755	1210	406.7	SLV 5	-0.76992	-5.63013	-0.44777	0.7183	-0.0481	0.086
70	1755	1210	406.7	SLV 6	-0.76992	-5.63013	-0.44777	0.7183	-0.0481	0.086
70	1755	1210	406.7	SLV 7	0.00069	5.61881	-0.25426	-0.7169	-0.0305	-0.0862
70	1755	1210	406.7	SLV 8	0.00069	5.61881	-0.25426	-0.7169	-0.0305	-0.0862
70	1755	1210	406.7	SLV 9	-0.35952	-5.63002	-0.33626	0.7183	-0.0372	0.086
70	1755	1210	406.7	SLV 10	-0.35952	-5.63002	-0.33626	0.7183	-0.0372	0.086
70	1755	1210	406.7	SLV 11	0.41106	5.61869	-0.14276	-0.7169	-0.0195	-0.0862
70	1755	1210	406.7	SLV 12	0.41106	5.61869	-0.14276	-0.7169	-0.0195	-0.0862
70	1755	1210	406.7	SLV 13	0.38912	-1.6888	-0.13839	0.2155	-0.0183	0.0258
70	1755	1210	406.7	SLV 14	0.38912	-1.6888	-0.13839	0.2155	-0.0183	0.0258
70	1755	1210	406.7	SLV 15	0.62021	1.6854	-0.08036	-0.215	-0.013	-0.0259
70	1755	1210	406.7	SLV 16	0.62021	1.6854	-0.08036	-0.215	-0.013	-0.0259
70	1755	1210	406.7	SLV FO 1	-0.97887	-1.68917	-0.51009	0.2155	-0.0546	0.0258
70	1755	1210	406.7	SLV FO 2	-0.97887	-1.68917	-0.51009	0.2155	-0.0546	0.0258
70	1755	1210	406.7	SLV FO 3	-0.74769	1.68577	-0.45203	-0.2151	-0.0494	-0.0258
70	1755	1210	406.7	SLV FO 4	-0.74769	1.68577	-0.45203	-0.2151	-0.0494	-0.0258
70	1755	1210	406.7	SLV FO 5	-0.76992	-5.63013	-0.44777	0.7183	-0.0481	0.086
70	1755	1210	406.7	SLV FO 6	-0.76992	-5.63013	-0.44777	0.7183	-0.0481	0.086
70	1755	1210	406.7	SLV FO 7	0.00069	5.61881	-0.25426	-0.7169	-0.0305	-0.0862
70	1755	1210	406.7	SLV FO 8	0.00069	5.61881	-0.25426	-0.7169	-0.0305	-0.0862
70	1755	1210	406.7	SLV FO 9	-0.35952	-5.63002	-0.33626	0.7183	-0.0372	0.086
70	1755	1210	406.7	SLV FO 10	-0.35952	-5.63002	-0.33626	0.7183	-0.0372	0.086
70	1755	1210	406.7	SLV FO 11	0.41106	5.61869	-0.14276	-0.7169	-0.0195	-0.0862
70	1755	1210	406.7	SLV FO 12	0.41106	5.61869	-0.14276	-0.7169	-0.0195	-0.0862
70	1755	1210	406.7	SLV FO 13	0.38912	-1.6888	-0.13839	0.2155	-0.0183	0.0258
70	1755	1210	406.7	SLV FO 14	0.38912	-1.6888	-0.13839	0.2155	-0.0183	0.0258
70	1755	1210	406.7	SLV FO 15	0.62021	1.6854	-0.08036	-0.215	-0.013	-0.0259
70	1755	1210	406.7	SLV FO 16	0.62021	1.6854	-0.08036	-0.215	-0.013	-0.0259
71	1665	210	418	SLU 1	-0.15028	0.00003	-0.29351	0	-0.023	0
71	1665	210	418	SLU 2	0.00812	0.97139	-0.02503	-0.0907	0.0048	-0.0055
71	1665	210	418	SLU 3	0.21013	0.97146	0.16917	-0.0907	0.0226	-0.0055
71	1665	210	418	SLU 4	0.18653	0.00026	0.03018	0	0.0067	0
71	1665	210	418	SLU 5	0.28147	0.5828	0.19125	-0.0544	0.0234	-0.0033
71	1665	210	418	SLU 6	-0.04728	0.97131	-0.10884	-0.0907	-0.0037	-0.0055
71	1665	210	418	SLU 7	0.15468	0.97147	0.08535	-0.0907	0.0141	-0.0055
71	1665	210	418	SLU 8	0.13107	0.00021	-0.05364	0	-0.0018	0
71	1665	210	418	SLU 9	0.22605	0.58279	0.10743	-0.0544	0.0149	-0.0033
71	1665	210	418	SLU 10	-0.26114	0.00013	-0.46115	0	-0.04	0
71	1665	210	418	SLU 11	-0.16605	0.58274	-0.30004	-0.0544	-0.0233	-0.0033
71	1665	210	418	SLU 12	-0.05912	0.00004	-0.26695	0	-0.0222	0
71	1665	210	418	SLU 13	0.0359	0.58287	-0.10587	-0.0544	-0.0055	-0.0033
71	1665	210	418	SLU 14	-0.20308	0.00008	-0.37221	0	-0.0309	0
71	1665	210	418	SLU 15	-0.04465	0.97131	-0.10371	-0.0907	-0.0032	-0.0055
71	1665	210	418	SLU 16	0.15731	0.97147	0.09047	-0.0907	0.0146	-0.0055
71	1665	210	418	SLU 17	0.1337	0.00021	-0.04852	0	-0.0012	0
71	1665	210	418	SLU 18	0.22868	0.58279	0.11255	-0.0544	0.0154	-0.0033
71	1665	210	418	SLU 19	-0.10009	0.97131	-0.18754	-0.0907	-0.0117	-0.0055
71	1665	210	418	SLU 20	0.10186	0.97149	0.00664	-0.0907	0.0061	-0.0055
71	1665	210	418	SLU 21	0.07825	0.00016	-0.13235	0	-0.0097	0
71	1665	210	418	SLU 22	0.17323	0.58287	0.02873	-0.0544	0.0069	-0.0033
71	1665	210	418	SLU 23	-0.31395	0.00018	-0.53985	0	-0.0479	0
71	1665	210	418	SLU 24	-0.21885	0.58278	-0.37874	-0.0544	-0.0313	-0.0033
71	1665	210	418	SLU 25	-0.11195	-0.00001	-0.34565	0	-0.0301	0
71	1665	210	418	SLU 26	-0.01686	0.5828	-0.18455	-0.0544	-0.0135	-0.0033
71	1665	210	418	SLU 27	-0.19537	0.00004	-0.38156	0	-0.0299	0
71	1665	210	418	SLU 28	-0.03697	0.97138	-0.11308	-0.0907	-0.0021	-0.0055
71	1665	210	418	SLU 29	0.16503	0.97146	0.08112	-0.0907	0.0157	-0.0055
71	1665	210	418	SLU 30	0.14143	0.00025	-0.05787	0	-0.0002	0
71	1665	210	418	SLU 31	0.23637	0.58279	0.10319	-0.0544	0.0165	-0.0033
71	1665	210	418	SLU 32	-0.09236	0.9713	-0.19689	-0.0907	-0.0106	-0.0055
71	1665	210	418	SLU 33	0.10959	0.97147	-0.00271	-0.0907	0.0072	-0.0055

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
71	1665	210	418	SLU 34	0.08598	0.0002	-0.1417	0	-0.0087	0
71	1665	210	418	SLU 35	0.18095	0.58279	0.01938	-0.0544	0.008	-0.0033
71	1665	210	418	SLU 36	-0.30623	0.00014	-0.54921	0	-0.0469	0
71	1665	210	418	SLU 37	-0.21113	0.58273	-0.3881	-0.0544	-0.0302	-0.0033
71	1665	210	418	SLU 38	-0.10422	0.00003	-0.35501	0	-0.0291	0
71	1665	210	418	SLU 39	-0.00919	0.58287	-0.19392	-0.0544	-0.0124	-0.0033
71	1665	210	418	SLU 40	-0.24817	0.00009	-0.46026	0	-0.0378	0
71	1665	210	418	SLU 41	-0.08973	0.9713	-0.19177	-0.0907	-0.0101	-0.0055
71	1665	210	418	SLU 42	0.11222	0.97147	0.00241	-0.0907	0.0078	-0.0055
71	1665	210	418	SLU 43	0.08861	0.0002	-0.13658	0	-0.0081	0
71	1665	210	418	SLU 44	0.18358	0.58279	0.0245	-0.0544	0.0085	-0.0033
71	1665	210	418	SLU 45	-0.14514	0.97125	-0.27558	-0.0907	-0.0186	-0.0055
71	1665	210	418	SLU 46	0.05678	0.97147	-0.08141	-0.0907	-0.0007	-0.0055
71	1665	210	418	SLU 47	0.03315	0.00015	-0.2204	0	-0.0166	0
71	1665	210	418	SLU 48	0.12813	0.58287	-0.05933	-0.0544	0	-0.0033
71	1665	210	418	SLU 49	-0.35903	0.00019	-0.6279	0	-0.0548	0
71	1665	210	418	SLU 50	-0.26393	0.58277	-0.4668	-0.0544	-0.0382	-0.0033
71	1665	210	418	SLU 51	-0.15697	0.00001	-0.43369	0	-0.037	0
71	1665	210	418	SLU 52	-0.06195	0.58278	-0.2726	-0.0544	-0.0204	-0.0033
71	1665	210	418	SLE RA 1	-0.18548	0.00006	-0.34598	0	-0.0283	0
71	1665	210	418	SLE RA 2	-0.07986	0.64753	-0.16698	-0.0604	-0.0098	-0.0037
71	1665	210	418	SLE RA 3	0.05477	0.64765	-0.03753	-0.0605	0.0021	-0.0037
71	1665	210	418	SLE RA 4	0.03903	0.00013	-0.13019	0	-0.0085	0
71	1665	210	418	SLE RA 5	0.10235	0.38853	-0.0228	-0.0363	0.0026	-0.0022
71	1665	210	418	SLE RA 6	-0.11678	0.64746	-0.22285	-0.0604	-0.0154	-0.0037
71	1665	210	418	SLE RA 7	0.01783	0.64761	-0.0934	-0.0604	-0.0036	-0.0037
71	1665	210	418	SLE RA 8	0.00206	0.0001	-0.18607	0	-0.0142	0
71	1665	210	418	SLE RA 9	0.06538	0.38858	-0.07869	-0.0363	-0.003	-0.0022
71	1665	210	418	SLE RA 10	-0.25939	0.00013	-0.45774	0	-0.0396	0
71	1665	210	418	SLE RA 11	-0.19599	0.38852	-0.35033	-0.0363	-0.0285	-0.0022
71	1665	210	418	SLE RA 12	-0.12469	0.00001	-0.32826	0	-0.0277	0
71	1665	210	418	SLE RA 13	-0.06134	0.38852	-0.22087	-0.0363	-0.0166	-0.0022
71	1665	210	418	SLE FR 1	-0.18548	0.00006	-0.34598	0	-0.0283	0
71	1665	210	418	SLE FR 2	-0.16435	0.12952	-0.31017	-0.0121	-0.0246	-0.0007
71	1665	210	418	SLE FR 3	-0.14058	0.00003	-0.30282	0	-0.0243	0
71	1665	210	418	SLE FR 4	-0.20027	0.00008	-0.36833	0	-0.0305	0
71	1665	210	418	SLE QP 1	-0.18548	0.00006	-0.34598	0	-0.0283	0
71	1665	210	418	SLD 1	-0.40758	-0.68804	-0.41275	0.0836	-0.0302	0.0093
71	1665	210	418	SLD 2	-0.40758	-0.68804	-0.41275	0.0836	-0.0302	0.0093
71	1665	210	418	SLD 3	-0.49778	0.68933	-0.43701	-0.0837	-0.0306	-0.0092
71	1665	210	418	SLD 4	-0.49778	0.68933	-0.43701	-0.0837	-0.0306	-0.0092
71	1665	210	418	SLD 5	-0.11537	-2.29321	-0.32924	0.2784	-0.0283	0.0309
71	1665	210	418	SLD 6	-0.11537	-2.29321	-0.32924	0.2784	-0.0283	0.0309
71	1665	210	418	SLD 7	-0.41606	2.29753	-0.41012	-0.2789	-0.0296	-0.0307
71	1665	210	418	SLD 8	-0.41606	2.29753	-0.41012	-0.2789	-0.0296	-0.0307
71	1665	210	418	SLD 9	0.04492	-2.29317	-0.28191	0.2784	-0.027	0.0309
71	1665	210	418	SLD 10	0.04492	-2.29317	-0.28191	0.2784	-0.027	0.0309
71	1665	210	418	SLD 11	-0.25576	2.29748	-0.36278	-0.2789	-0.0283	-0.0307
71	1665	210	418	SLD 12	-0.25576	2.29748	-0.36278	-0.2789	-0.0283	-0.0307
71	1665	210	418	SLD 13	0.12671	-0.68786	-0.25498	0.0835	-0.026	0.0093
71	1665	210	418	SLD 14	0.12671	-0.68786	-0.25498	0.0835	-0.026	0.0093
71	1665	210	418	SLD 15	0.03656	0.68915	-0.27922	-0.0837	-0.0263	-0.0092
71	1665	210	418	SLD 16	0.03656	0.68915	-0.27922	-0.0837	-0.0263	-0.0092
71	1665	210	418	SLV 1	-0.756	-1.76745	-0.5175	0.2146	-0.0332	0.0238
71	1665	210	418	SLV 2	-0.756	-1.76745	-0.5175	0.2146	-0.0332	0.0238
71	1665	210	418	SLV 3	-0.98776	1.77077	-0.57984	-0.215	-0.0342	-0.0237
71	1665	210	418	SLV 4	-0.98776	1.77077	-0.57984	-0.215	-0.0342	-0.0237
71	1665	210	418	SLV 5	-0.00528	-5.89107	-0.30297	0.7153	-0.0283	0.0793
71	1665	210	418	SLV 6	-0.00528	-5.89107	-0.30297	0.7153	-0.0283	0.0793
71	1665	210	418	SLV 7	-0.77781	5.90215	-0.51075	-0.7165	-0.0316	-0.0789
71	1665	210	418	SLV 8	-0.77781	5.90215	-0.51075	-0.7165	-0.0316	-0.0789
71	1665	210	418	SLV 9	0.4065	-5.89096	-0.18138	0.7153	-0.025	0.0793
71	1665	210	418	SLV 10	0.4065	-5.89096	-0.18138	0.7153	-0.025	0.0793
71	1665	210	418	SLV 11	-0.366	5.90204	-0.38915	-0.7164	-0.0283	-0.0789
71	1665	210	418	SLV 12	-0.366	5.90204	-0.38915	-0.7164	-0.0283	-0.0789
71	1665	210	418	SLV 13	0.6166	-1.7671	-0.11219	0.2146	-0.0223	0.0238
71	1665	210	418	SLV 14	0.6166	-1.7671	-0.11219	0.2146	-0.0223	0.0238
71	1665	210	418	SLV 15	0.38494	1.77042	-0.1745	-0.2149	-0.0233	-0.0237
71	1665	210	418	SLV 16	0.38494	1.77042	-0.1745	-0.2149	-0.0233	-0.0237
71	1665	210	418	SLV FO 1	-0.756	-1.76745	-0.5175	0.2146	-0.0332	0.0238
71	1665	210	418	SLV FO 2	-0.756	-1.76745	-0.5175	0.2146	-0.0332	0.0238
71	1665	210	418	SLV FO 3	-0.98776	1.77077	-0.57984	-0.215	-0.0342	-0.0237
71	1665	210	418	SLV FO 4	-0.98776	1.77077	-0.57984	-0.215	-0.0342	-0.0237
71	1665	210	418	SLV FO 5	-0.00528	-5.89107	-0.30297	0.7153	-0.0283	0.0793
71	1665	210	418	SLV FO 6	-0.00528	-5.89107	-0.30297	0.7153	-0.0283	0.0793
71	1665	210	418	SLV FO 7	-0.77781	5.90215	-0.51075	-0.7165	-0.0316	-0.0789
71	1665	210	418	SLV FO 8	-0.77781	5.90215	-0.51075	-0.7165	-0.0316	-0.0789
71	1665	210	418	SLV FO 9	0.4065	-5.89096	-0.18138	0.7153	-0.025	0.0793
71	1665	210	418	SLV FO 10	0.4065	-5.89096	-0.18138	0.7153	-0.025	0.0793
71	1665	210	418	SLV FO 11	-0.366	5.90204	-0.38915	-0.7164	-0.0283	-0.0789
71	1665	210	418	SLV FO 12	-0.366	5.90204	-0.38915	-0.7164	-0.0283	-0.0789
71	1665	210	418	SLV FO 13	0.6166	-1.7671	-0.11219	0.2146	-0.0223	0.0238
71	1665	210	418	SLV FO 14	0.6166	-1.7671	-0.11219	0.2146	-0.0223	0.0238
71	1665	210	418	SLV FO 15	0.38494	1.77042	-0.1745	-0.2149	-0.0233	-0.0237
71	1665	210	418	SLV FO 16	0.38494	1.77042	-0.1745	-0.2149	-0.0233	-0.0237
72	1665	710	418	SLU 1	-0.1617	0	-0.33183	0	-0.0273	0
72	1665	710	418	SLU 2	0.08596	0.9703	0.18538	-0.1236	0.0277	-0.0017
72	1665	710	418	SLU 3	0.341	0.97055	0.52973	-0.1236	0.062	-0.0016
72	1665	710	418	SLU 4	0.26329	0	0.24207	0	0.0298	0
72	1665	710	418	SLU 5	0.41198	0.58238	0.55242	-0.0742	0.0628	-0.0009
72	1665	710	418	SLU 6	0.01155	0.97017	0.0278	-0.1236	0.0109	-0.0017
72	1665	710	418	SLU 7	0.26664	0.97051	0.37217	-0.1236	0.0452	-0.0016
72	1665	710	418	SLU 8	0.18893	0	0.08451	0	0.013	0
72	1665	710	418	SLU 9	0.33759	0.58236	0.39485	-0.0742	0.046	-0.001
72	1665	710	418	SLU 10	-0.31052	0	-0.64698	0	-0.061	0
72	1665	710	418	SLU 11	-0.16193	0.58197	-0.33666	-0.0741	-0.0279	-0.001
72	1665	710	418	SLU 12	-0.05539	0	-0.3026	0	-0.0267	0
72	1665	710	418	SLU 13	0.09321	0.58228	0.00772	-0.0742	0.0063	-0.001
72	1665	710	418	SLU 14	-0.23248	0	-0.47961	0	-0.0431	0
72	1665	710	418	SLU 15	0.01517	0.97017	0.0376	-0.1236	0.012	-0.0017
72	1665	710	418	SLU 16	0.27026	0.97051	0.38196	-0.1236	0.0462	-0.0016
72	1665	710	418	SLU 17	0.19255	0	0.0943	0	0.0141	0
72	1665	710	418	SLU 18	0.34122	0.58236	0.40464	-0.0742	0.0471	-0.001

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
72	1665	710	418	SLU 19	-0.0592	0.97012	-0.11997	-0.1236	-0.0049	-0.0017
72	1665	710	418	SLU 20	0.19591	0.97047	0.2244	-0.1236	0.0294	-0.0016
72	1665	710	418	SLU 21	0.1182	0	-0.06326	0	-0.0027	0
72	1665	710	418	SLU 22	0.26682	0.5824	0.24707	-0.0742	0.0303	-0.001
72	1665	710	418	SLU 23	-0.38131	0	-0.79476	0	-0.0767	0
72	1665	710	418	SLU 24	-0.23271	0.58197	-0.48444	-0.0741	-0.0437	-0.001
72	1665	710	418	SLU 25	-0.12612	0	-0.45037	0	-0.0424	0
72	1665	710	418	SLU 26	0.02242	0.58216	-0.14006	-0.0742	-0.0094	-0.001
72	1665	710	418	SLU 27	-0.21021	0	-0.43138	0	-0.0356	0
72	1665	710	418	SLU 28	0.03747	0.97028	0.08584	-0.1236	0.0195	-0.0017
72	1665	710	418	SLU 29	0.29251	0.97054	0.43019	-0.1236	0.0538	-0.0016
72	1665	710	418	SLU 30	0.2148	0	0.14253	0	0.0216	0
72	1665	710	418	SLU 31	0.36349	0.58238	0.45288	-0.0742	0.0546	-0.001
72	1665	710	418	SLU 32	-0.03695	0.97015	-0.07174	-0.1236	0.0027	-0.0017
72	1665	710	418	SLU 33	0.21815	0.9705	0.27263	-0.1236	0.037	-0.0016
72	1665	710	418	SLU 34	0.14045	0	-0.01503	0	0.0048	0
72	1665	710	418	SLU 35	0.28911	0.58235	0.29531	-0.0742	0.0378	-0.001
72	1665	710	418	SLU 36	-0.35903	0	-0.74653	0	-0.0692	0
72	1665	710	418	SLU 37	-0.21043	0.58195	-0.4362	-0.0741	-0.0361	-0.001
72	1665	710	418	SLU 38	-0.10386	0	-0.40214	0	-0.0349	0
72	1665	710	418	SLU 39	0.04472	0.58227	-0.09182	-0.0742	-0.0019	-0.001
72	1665	710	418	SLU 40	-0.28099	0	-0.57916	0	-0.0513	0
72	1665	710	418	SLU 41	-0.03332	0.97015	-0.06195	-0.1236	0.0037	-0.0017
72	1665	710	418	SLU 42	0.22178	0.9705	0.28242	-0.1236	0.038	-0.0016
72	1665	710	418	SLU 43	0.14407	0	-0.00524	0	0.0059	0
72	1665	710	418	SLU 44	0.29273	0.58236	0.3051	-0.0742	0.0389	-0.001
72	1665	710	418	SLU 45	-0.10773	0.97005	-0.21952	-0.1236	-0.0131	-0.0017
72	1665	710	418	SLU 46	0.14741	0.97044	0.12486	-0.1236	0.0212	-0.0017
72	1665	710	418	SLU 47	0.06971	0	-0.1628	0	-0.0109	0
72	1665	710	418	SLU 48	0.21834	0.58239	0.14753	-0.0742	0.0221	-0.001
72	1665	710	418	SLU 49	-0.42982	0	-0.89431	0	-0.0849	0
72	1665	710	418	SLU 50	-0.28121	0.58195	-0.58398	-0.0741	-0.0519	-0.001
72	1665	710	418	SLU 51	-0.17474	0	-0.54994	0	-0.0506	0
72	1665	710	418	SLU 52	-0.02608	0.58213	-0.2396	-0.0742	-0.0176	-0.001
72	1665	710	418	SLE RA 1	-0.20889	0	-0.43035	0	-0.0378	0
72	1665	710	418	SLE RA 2	-0.04377	0.64676	-0.08554	-0.0824	-0.0011	-0.0011
72	1665	710	418	SLE RA 3	0.1263	0.64699	0.14404	-0.0824	0.0217	-0.0011
72	1665	710	418	SLE RA 4	0.0745	0	-0.04773	0	0.0003	0
72	1665	710	418	SLE RA 5	0.1736	0.38823	0.15916	-0.0495	0.0223	-0.0006
72	1665	710	418	SLE RA 6	-0.0934	0.64666	-0.1906	-0.0824	-0.0124	-0.0011
72	1665	710	418	SLE RA 7	0.0767	0.64692	0.03899	-0.0824	0.0105	-0.0011
72	1665	710	418	SLE RA 8	0.02493	0	-0.15277	0	-0.0109	0
72	1665	710	418	SLE RA 9	0.12401	0.38825	0.05411	-0.0495	0.0111	-0.0007
72	1665	710	418	SLE RA 10	-0.3081	0	-0.64045	0	-0.0602	0
72	1665	710	418	SLE RA 11	-0.20904	0.38797	-0.43357	-0.0494	-0.0382	-0.0007
72	1665	710	418	SLE RA 12	-0.13805	0	-0.41087	0	-0.0374	0
72	1665	710	418	SLE RA 13	-0.03894	0.38808	-0.20398	-0.0494	-0.0154	-0.0007
72	1665	710	418	SLE FR 1	-0.20889	0	-0.43035	0	-0.0378	0
72	1665	710	418	SLE FR 2	-0.17587	0.12931	-0.36139	-0.0165	-0.0305	-0.0002
72	1665	710	418	SLE FR 3	-0.15221	0	-0.35382	0	-0.0302	0
72	1665	710	418	SLE FR 4	-0.22873	0	-0.47237	0	-0.0423	0
72	1665	710	418	SLE QP 1	-0.20889	0	-0.43035	0	-0.0378	0
72	1665	710	418	SLD 1	-0.5015	-0.6885	-0.51813	0.0836	-0.0403	0.0092
72	1665	710	418	SLD 2	-0.5015	-0.6885	-0.51813	0.0836	-0.0403	0.0092
72	1665	710	418	SLD 3	-0.5015	0.6885	-0.51813	-0.0836	-0.0403	-0.0092
72	1665	710	418	SLD 4	-0.5015	0.6885	-0.51813	-0.0836	-0.0403	-0.0092
72	1665	710	418	SLD 5	-0.2966	-2.29528	-0.45669	0.2787	-0.0386	0.0308
72	1665	710	418	SLD 6	-0.2966	-2.29528	-0.45669	0.2787	-0.0386	0.0308
72	1665	710	418	SLD 7	-0.2966	2.29528	-0.45669	-0.2787	-0.0386	-0.0308
72	1665	710	418	SLD 8	-0.2966	2.29528	-0.45669	-0.2787	-0.0386	-0.0308
72	1665	710	418	SLD 9	-0.12101	-2.29532	-0.40402	0.2787	-0.0371	0.0308
72	1665	710	418	SLD 10	-0.12101	-2.29532	-0.40402	0.2787	-0.0371	0.0308
72	1665	710	418	SLD 11	-0.12101	2.29532	-0.40402	-0.2787	-0.0371	-0.0308
72	1665	710	418	SLD 12	-0.12101	2.29532	-0.40402	-0.2787	-0.0371	-0.0308
72	1665	710	418	SLD 13	0.08384	-0.68857	-0.34255	0.0836	-0.0353	0.0092
72	1665	710	418	SLD 14	0.08384	-0.68857	-0.34255	0.0836	-0.0353	0.0092
72	1665	710	418	SLD 15	0.08384	0.68857	-0.34255	-0.0836	-0.0353	-0.0092
72	1665	710	418	SLD 16	0.08384	0.68857	-0.34255	-0.0836	-0.0353	-0.0092
72	1665	710	418	SLV 1	-0.9606	-1.76873	-0.65587	0.2147	-0.0443	0.0237
72	1665	710	418	SLV 2	-0.9606	-1.76873	-0.65587	0.2147	-0.0443	0.0237
72	1665	710	418	SLV 3	-0.9606	1.76873	-0.65587	-0.2147	-0.0443	-0.0237
72	1665	710	418	SLV 4	-0.9606	1.76873	-0.65587	-0.2147	-0.0443	-0.0237
72	1665	710	418	SLV 5	-0.43433	-5.89649	-0.49805	0.716	-0.0398	0.0791
72	1665	710	418	SLV 6	-0.43433	-5.89649	-0.49805	0.716	-0.0398	0.0791
72	1665	710	418	SLV 7	-0.43433	5.89649	-0.49805	-0.716	-0.0398	-0.0791
72	1665	710	418	SLV 8	-0.43433	5.89649	-0.49805	-0.716	-0.0398	-0.0791
72	1665	710	418	SLV 9	0.01675	-5.89658	-0.36274	0.716	-0.0359	0.0791
72	1665	710	418	SLV 10	0.01675	-5.89658	-0.36274	0.716	-0.0359	0.0791
72	1665	710	418	SLV 11	0.01675	5.89658	-0.36274	-0.716	-0.0359	-0.0791
72	1665	710	418	SLV 12	0.01675	5.89658	-0.36274	-0.716	-0.0359	-0.0791
72	1665	710	418	SLV 13	0.54299	-1.76903	-0.20483	0.2148	-0.0314	0.0237
72	1665	710	418	SLV 14	0.54299	-1.76903	-0.20483	0.2148	-0.0314	0.0237
72	1665	710	418	SLV 15	0.54299	1.76903	-0.20483	-0.2148	-0.0314	-0.0237
72	1665	710	418	SLV 16	0.54299	1.76903	-0.20483	-0.2148	-0.0314	-0.0237
72	1665	710	418	SLV FO 1	-0.9606	-1.76873	-0.65587	0.2147	-0.0443	0.0237
72	1665	710	418	SLV FO 2	-0.9606	-1.76873	-0.65587	0.2147	-0.0443	0.0237
72	1665	710	418	SLV FO 3	-0.9606	1.76873	-0.65587	-0.2147	-0.0443	-0.0237
72	1665	710	418	SLV FO 4	-0.9606	1.76873	-0.65587	-0.2147	-0.0443	-0.0237
72	1665	710	418	SLV FO 5	-0.43433	-5.89649	-0.49805	0.716	-0.0398	0.0791
72	1665	710	418	SLV FO 6	-0.43433	-5.89649	-0.49805	0.716	-0.0398	0.0791
72	1665	710	418	SLV FO 7	-0.43433	5.89649	-0.49805	-0.716	-0.0398	-0.0791
72	1665	710	418	SLV FO 8	-0.43433	5.89649	-0.49805	-0.716	-0.0398	-0.0791
72	1665	710	418	SLV FO 9	0.01675	-5.89658	-0.36274	0.716	-0.0359	0.0791
72	1665	710	418	SLV FO 10	0.01675	-5.89658	-0.36274	0.716	-0.0359	0.0791
72	1665	710	418	SLV FO 11	0.01675	5.89658	-0.36274	-0.716	-0.0359	-0.0791
72	1665	710	418	SLV FO 12	0.01675	5.89658	-0.36274	-0.716	-0.0359	-0.0791
72	1665	710	418	SLV FO 13	0.54299	-1.76903	-0.20483	0.2148	-0.0314	0.0237
72	1665	710	418	SLV FO 14	0.54299	-1.76903	-0.20483	0.2148	-0.0314	0.0237
72	1665	710	418	SLV FO 15	0.54299	1.76903	-0.20483	-0.2148	-0.0314	-0.0237
72	1665	710	418	SLV FO 16	0.54299	1.76903	-0.20483	-0.2148	-0.0314	-0.0237

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
73	1665	1210	418	SLU 1	-0.15028	-0.00003	-0.29351	0	-0.023	0
73	1665	1210	418	SLU 2	0.061	0.96927	-0.01111	-0.1235	0.005	-0.0018
73	1665	1210	418	SLU 3	0.26312	0.96935	0.18312	-0.1235	0.0228	-0.0018
73	1665	1210	418	SLU 4	0.18653	-0.00026	0.03018	0	0.0067	0
73	1665	1210	418	SLU 5	0.3133	0.58149	0.19963	-0.0741	0.0235	-0.001
73	1665	1210	418	SLU 6	0.00554	0.9692	-0.09493	-0.1235	-0.0035	-0.0018
73	1665	1210	418	SLU 7	0.20765	0.96936	0.09929	-0.1235	0.0143	-0.0018
73	1665	1210	418	SLU 8	0.13107	-0.00021	-0.05364	0	-0.0018	0
73	1665	1210	418	SLU 9	0.25784	0.58152	0.1158	-0.0741	0.015	-0.001
73	1665	1210	418	SLU 10	-0.26114	-0.00013	-0.46115	0	-0.04	0
73	1665	1210	418	SLU 11	-0.13442	0.58147	-0.29172	-0.0741	-0.0232	-0.0011
73	1665	1210	418	SLU 12	-0.05912	-0.00004	-0.26695	0	-0.0222	0
73	1665	1210	418	SLU 13	0.06767	0.58161	-0.0975	-0.0741	-0.0054	-0.0011
73	1665	1210	418	SLU 14	-0.20308	-0.00008	-0.37221	0	-0.0309	0
73	1665	1210	418	SLU 15	0.00817	0.9692	-0.08981	-0.1235	-0.003	-0.0018
73	1665	1210	418	SLU 16	0.21028	0.96936	0.10442	-0.1235	0.0148	-0.0018
73	1665	1210	418	SLU 17	0.1337	-0.00021	-0.04852	0	-0.0012	0
73	1665	1210	418	SLU 18	0.26047	0.58152	0.12092	-0.0741	0.0155	-0.001
73	1665	1210	418	SLU 19	-0.0473	0.96919	-0.17364	-0.1235	-0.0115	-0.0018
73	1665	1210	418	SLU 20	0.15482	0.96937	0.02059	-0.1235	0.0063	-0.0018
73	1665	1210	418	SLU 21	0.07825	-0.00016	-0.13235	0	-0.0097	0
73	1665	1210	418	SLU 22	0.20505	0.5816	0.03711	-0.0741	0.007	-0.001
73	1665	1210	418	SLU 23	-0.31395	-0.00018	-0.53985	0	-0.0479	0
73	1665	1210	418	SLU 24	-0.18722	0.58151	-0.37042	-0.0741	-0.0312	-0.0011
73	1665	1210	418	SLU 25	-0.11195	0.00001	-0.34565	0	-0.0301	0
73	1665	1210	418	SLU 26	0.01484	0.58153	-0.17621	-0.0741	-0.0134	-0.0011
73	1665	1210	418	SLU 27	-0.19537	-0.00004	-0.38156	0	-0.0299	0
73	1665	1210	418	SLU 28	0.0159	0.96927	-0.09916	-0.1235	-0.0019	-0.0018
73	1665	1210	418	SLU 29	0.21802	0.96935	0.09506	-0.1235	0.0159	-0.0018
73	1665	1210	418	SLU 30	0.14143	-0.00025	-0.05787	0	-0.0002	0
73	1665	1210	418	SLU 31	0.2682	0.58149	0.11157	-0.0741	0.0166	-0.001
73	1665	1210	418	SLU 32	-0.03956	0.96919	-0.18299	-0.1235	-0.0104	-0.0018
73	1665	1210	418	SLU 33	0.16256	0.96936	0.01124	-0.1235	0.0074	-0.0018
73	1665	1210	418	SLU 34	0.08598	-0.0002	-0.1417	0	-0.0087	0
73	1665	1210	418	SLU 35	0.21275	0.58152	0.02774	-0.0741	0.0081	-0.001
73	1665	1210	418	SLU 36	-0.30623	-0.00014	-0.54921	0	-0.0469	0
73	1665	1210	418	SLU 37	-0.17951	0.58146	-0.37977	-0.0741	-0.0301	-0.0011
73	1665	1210	418	SLU 38	-0.10422	-0.00003	-0.35501	0	-0.0291	0
73	1665	1210	418	SLU 39	0.02257	0.58161	-0.18556	-0.0741	-0.0123	-0.0011
73	1665	1210	418	SLU 40	-0.24817	-0.00009	-0.46026	0	-0.0378	0
73	1665	1210	418	SLU 41	-0.03693	0.96919	-0.17787	-0.1235	-0.0099	-0.0018
73	1665	1210	418	SLU 42	0.16519	0.96936	0.01636	-0.1235	0.0079	-0.0018
73	1665	1210	418	SLU 43	0.08861	-0.0002	-0.13658	0	-0.0081	0
73	1665	1210	418	SLU 44	0.21538	0.58152	0.03287	-0.0741	0.0086	-0.001
73	1665	1210	418	SLU 45	-0.09238	0.96914	-0.26169	-0.1235	-0.0184	-0.0018
73	1665	1210	418	SLU 46	0.10973	0.96935	-0.06747	-0.1235	-0.0006	-0.0018
73	1665	1210	418	SLU 47	0.03315	-0.00015	-0.2204	0	-0.0166	0
73	1665	1210	418	SLU 48	0.15995	0.5816	-0.05095	-0.0741	0.0001	-0.001
73	1665	1210	418	SLU 49	-0.35903	-0.00019	-0.6279	0	-0.0548	0
73	1665	1210	418	SLU 50	-0.23232	0.58151	-0.45847	-0.0741	-0.0381	-0.0011
73	1665	1210	418	SLU 51	-0.15697	-0.00001	-0.43369	0	-0.037	0
73	1665	1210	418	SLU 52	-0.03026	0.58152	-0.26426	-0.0741	-0.0203	-0.0011
73	1665	1210	418	SLE RA 1	-0.18548	-0.00006	-0.34598	0	-0.0283	0
73	1665	1210	418	SLE RA 2	-0.04466	0.64612	-0.15771	-0.0823	-0.0097	-0.0012
73	1665	1210	418	SLE RA 3	0.09008	0.64624	-0.02823	-0.0823	0.0022	-0.0012
73	1665	1210	418	SLE RA 4	0.03903	-0.00013	-0.13019	0	-0.0085	0
73	1665	1210	418	SLE RA 5	0.12354	0.38768	-0.01722	-0.0494	0.0027	-0.0007
73	1665	1210	418	SLE RA 6	-0.08163	0.64605	-0.2136	-0.0823	-0.0153	-0.0012
73	1665	1210	418	SLE RA 7	0.05311	0.6462	-0.08412	-0.0823	-0.0034	-0.0012
73	1665	1210	418	SLE RA 8	0.00206	-0.0001	-0.18607	0	-0.0142	0
73	1665	1210	418	SLE RA 9	0.08659	0.38773	-0.0731	-0.0494	-0.003	-0.0007
73	1665	1210	418	SLE RA 10	-0.25939	-0.00013	-0.45774	0	-0.0396	0
73	1665	1210	418	SLE RA 11	-0.17491	0.38768	-0.34478	-0.0494	-0.0284	-0.0007
73	1665	1210	418	SLE RA 12	-0.12469	-0.00001	-0.32826	0	-0.0277	0
73	1665	1210	418	SLE RA 13	-0.04022	0.38767	-0.21531	-0.0494	-0.0166	-0.0007
73	1665	1210	418	SLE FR 1	-0.18548	-0.00006	-0.34598	0	-0.0283	0
73	1665	1210	418	SLE FR 2	-0.15733	0.12924	-0.30832	-0.0165	-0.0245	-0.0002
73	1665	1210	418	SLE FR 3	-0.14058	-0.00003	-0.30282	0	-0.0243	0
73	1665	1210	418	SLE FR 4	-0.20027	-0.00008	-0.36833	0	-0.0305	0
73	1665	1210	418	SLE QP 1	-0.18548	-0.00006	-0.34598	0	-0.0283	0
73	1665	1210	418	SLD 1	-0.49778	-0.68933	-0.43701	0.0837	-0.0306	0.0092
73	1665	1210	418	SLD 2	-0.49778	-0.68933	-0.43701	0.0837	-0.0306	0.0092
73	1665	1210	418	SLD 3	-0.40758	0.68804	-0.41275	-0.0836	-0.0302	-0.0093
73	1665	1210	418	SLD 4	-0.40758	0.68804	-0.41275	-0.0836	-0.0302	-0.0093
73	1665	1210	418	SLD 5	-0.41606	-2.29753	-0.41012	0.2789	-0.0296	0.0307
73	1665	1210	418	SLD 6	-0.41606	-2.29753	-0.41012	0.2789	-0.0296	0.0307
73	1665	1210	418	SLD 7	-0.11537	2.29321	-0.32924	-0.2784	-0.0283	-0.0309
73	1665	1210	418	SLD 8	-0.11537	2.29321	-0.32924	-0.2784	-0.0283	-0.0309
73	1665	1210	418	SLD 9	-0.25576	-2.29748	-0.36278	0.2789	-0.0283	0.0307
73	1665	1210	418	SLD 10	-0.25576	-2.29748	-0.36278	0.2789	-0.0283	0.0307
73	1665	1210	418	SLD 11	0.04492	2.29317	-0.28191	-0.2784	-0.027	-0.0309
73	1665	1210	418	SLD 12	0.04492	2.29317	-0.28191	-0.2784	-0.027	-0.0309
73	1665	1210	418	SLD 13	0.03656	-0.68915	-0.27922	0.0837	-0.0263	0.0092
73	1665	1210	418	SLD 14	0.03656	-0.68915	-0.27922	0.0837	-0.0263	0.0092
73	1665	1210	418	SLD 15	0.12671	0.68786	-0.25498	-0.0835	-0.026	-0.0093
73	1665	1210	418	SLD 16	0.12671	0.68786	-0.25498	-0.0835	-0.026	-0.0093
73	1665	1210	418	SLV 1	-0.98776	-1.77077	-0.57984	0.215	-0.0342	0.0237
73	1665	1210	418	SLV 2	-0.98776	-1.77077	-0.57984	0.215	-0.0342	0.0237
73	1665	1210	418	SLV 3	-0.756	1.76745	-0.5175	-0.2146	-0.0332	-0.0238
73	1665	1210	418	SLV 4	-0.756	1.76745	-0.5175	-0.2146	-0.0332	-0.0238
73	1665	1210	418	SLV 5	-0.77781	-5.90215	-0.51075	0.7165	-0.0316	0.0789
73	1665	1210	418	SLV 6	-0.77781	-5.90215	-0.51075	0.7165	-0.0316	0.0789
73	1665	1210	418	SLV 7	-0.00528	5.89107	-0.30297	-0.7153	-0.0283	-0.0793
73	1665	1210	418	SLV 8	-0.00528	5.89107	-0.30297	-0.7153	-0.0283	-0.0793
73	1665	1210	418	SLV 9	-0.366	-5.90204	-0.38915	0.7164	-0.0283	0.0789
73	1665	1210	418	SLV 10	-0.366	-5.90204	-0.38915	0.7164	-0.0283	0.0789
73	1665	1210	418	SLV 11	0.4065	5.89096	-0.18138	-0.7153	-0.025	-0.0793
73	1665	1210	418	SLV 12	0.4065	5.89096	-0.18138	-0.7153	-0.025	-0.0793
73	1665	1210	418	SLV 13	0.38494	-1.77042	-0.1745	0.2149	-0.0233	0.0237
73	1665	1210	418	SLV 14	0.38494	-1.77042	-0.1745	0.2149	-0.0233	0.0237
73	1665	1210	418	SLV 15	0.6166	1.7671	-0.11219	-0.2146	-0.0223	-0.0238
73	1665	1210	418	SLV 16	0.6166	1.7671	-0.11219	-0.2146	-0.0223	-0.0238
73	1665	1210	418	SLV FO 1	-0.98776	-1.77077	-0.57984	0.215	-0.0342	0.0237

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
73	1665	1210	418	SLV FO 2	-0.98776	-1.77077	-0.57984	0.215	-0.0342	0.0237
73	1665	1210	418	SLV FO 3	-0.756	1.76745	-0.5175	-0.2146	-0.0332	-0.0238
73	1665	1210	418	SLV FO 4	-0.756	1.76745	-0.5175	-0.2146	-0.0332	-0.0238
73	1665	1210	418	SLV FO 5	-0.77781	-5.90215	-0.51075	0.7165	-0.0316	0.0789
73	1665	1210	418	SLV FO 6	-0.77781	-5.90215	-0.51075	0.7165	-0.0316	0.0789
73	1665	1210	418	SLV FO 7	-0.00528	5.89107	-0.30297	-0.7153	-0.0283	-0.0793
73	1665	1210	418	SLV FO 8	-0.00528	5.89107	-0.30297	-0.7153	-0.0283	-0.0793
73	1665	1210	418	SLV FO 9	-0.366	-5.90204	-0.38915	0.7164	-0.0283	0.0789
73	1665	1210	418	SLV FO 10	-0.366	-5.90204	-0.38915	0.7164	-0.0283	0.0789
73	1665	1210	418	SLV FO 11	0.4065	5.89096	-0.18138	-0.7153	-0.025	-0.0793
73	1665	1210	418	SLV FO 12	0.4065	5.89096	-0.18138	-0.7153	-0.025	-0.0793
73	1665	1210	418	SLV FO 13	0.38494	-1.77042	-0.1745	0.2149	-0.0233	0.0237
73	1665	1210	418	SLV FO 14	0.38494	-1.77042	-0.1745	0.2149	-0.0233	0.0237
73	1665	1210	418	SLV FO 15	0.6166	1.7671	-0.11219	-0.2146	-0.0223	-0.0238
73	1665	1210	418	SLV FO 16	0.6166	1.7671	-0.11219	-0.2146	-0.0223	-0.0238
74	215	210	425	SLU 1	-0.12613	0	-0.10436	0	-0.0052	0
74	215	210	425	SLU 2	0.01079	1.01085	-0.07747	-0.1265	-0.0024	-0.0258
74	215	210	425	SLU 3	0.18553	1.01055	-0.02926	-0.1265	0.0047	-0.0258
74	215	210	425	SLU 4	0.16522	0.00022	-0.02395	-0.0001	0.0068	0
74	215	210	425	SLU 5	0.24728	0.60645	-0.00786	-0.0759	0.0084	-0.0155
74	215	210	425	SLU 6	-0.03689	1.01103	-0.08798	-0.1265	-0.0037	-0.0258
74	215	210	425	SLU 7	0.1378	1.01056	-0.0398	-0.1265	0.0035	-0.0258
74	215	210	425	SLU 8	0.11748	0.00017	-0.03449	-0.0001	0.0055	0
74	215	210	425	SLU 9	0.19958	0.60649	-0.01839	-0.0759	0.0072	-0.0155
74	215	210	425	SLU 10	-0.22155	0.00001	-0.12541	-0.0001	-0.0077	0
74	215	210	425	SLU 11	-0.13935	0.60681	-0.10926	-0.0759	-0.0061	-0.0155
74	215	210	425	SLU 12	-0.04681	0.00001	-0.0772	0	-0.0005	0
74	215	210	425	SLU 13	0.03533	0.60636	-0.06108	-0.0759	0.0011	-0.0155
74	215	210	425	SLU 14	-0.1714	0	-0.11519	0	-0.0065	0
74	215	210	425	SLU 15	-0.03445	1.01102	-0.08829	-0.1265	-0.0038	-0.0258
74	215	210	425	SLU 16	0.14025	1.01056	-0.04011	-0.1265	0.0034	-0.0258
74	215	210	425	SLU 17	0.11993	0.00017	-0.0348	-0.0001	0.0054	0
74	215	210	425	SLU 18	0.20202	0.60649	-0.0187	-0.0759	0.0071	-0.0155
74	215	210	425	SLU 19	-0.08217	1.01106	-0.09882	-0.1265	-0.005	-0.0258
74	215	210	425	SLU 20	0.09252	1.01057	-0.05064	-0.1264	0.0021	-0.0258
74	215	210	425	SLU 21	0.07219	0.00012	-0.04534	-0.0001	0.0042	0
74	215	210	425	SLU 22	0.15429	0.6063	-0.02923	-0.0759	0.0058	-0.0154
74	215	210	425	SLU 23	-0.26682	0.00001	-0.13625	-0.0001	-0.0091	0.0001
74	215	210	425	SLU 24	-0.18463	0.60675	-0.1201	-0.0759	-0.0074	-0.0155
74	215	210	425	SLU 25	-0.0921	0	-0.08805	0	-0.0019	0
74	215	210	425	SLU 26	-0.00991	0.60656	-0.0719	-0.0759	-0.0002	-0.0155
74	215	210	425	SLU 27	-0.16397	0	-0.13567	0	-0.0067	0
74	215	210	425	SLU 28	-0.02705	1.01087	-0.10878	-0.1265	-0.004	-0.0258
74	215	210	425	SLU 29	0.14769	1.01056	-0.06057	-0.1265	0.0032	-0.0258
74	215	210	425	SLU 30	0.12737	0.00021	-0.05526	-0.0001	0.0052	0
74	215	210	425	SLU 31	0.20943	0.60644	-0.03917	-0.0759	0.0069	-0.0155
74	215	210	425	SLU 32	-0.07473	1.01105	-0.11929	-0.1265	-0.0052	-0.0258
74	215	210	425	SLU 33	0.09996	1.01057	-0.07111	-0.1265	0.0019	-0.0258
74	215	210	425	SLU 34	0.07963	0.00015	-0.0658	-0.0001	0.004	0
74	215	210	425	SLU 35	0.16173	0.60649	-0.0497	-0.0759	0.0056	-0.0155
74	215	210	425	SLU 36	-0.25939	0.00001	-0.15672	-0.0001	-0.0093	0
74	215	210	425	SLU 37	-0.17719	0.60683	-0.14057	-0.0759	-0.0076	-0.0155
74	215	210	425	SLU 38	-0.08466	0	-0.10852	0	-0.0021	0
74	215	210	425	SLU 39	-0.00252	0.60638	-0.09239	-0.0759	-0.0004	-0.0155
74	215	210	425	SLU 40	-0.20924	0	-0.1465	-0.0001	-0.0081	0
74	215	210	425	SLU 41	-0.07229	1.01105	-0.1196	-0.1265	-0.0053	-0.0258
74	215	210	425	SLU 42	0.1024	1.01057	-0.07142	-0.1265	0.0018	-0.0258
74	215	210	425	SLU 43	0.08207	0.00016	-0.06611	-0.0001	0.0039	0
74	215	210	425	SLU 44	0.16417	0.60649	-0.05001	-0.0759	0.0055	-0.0155
74	215	210	425	SLU 45	-0.11998	1.01127	-0.13012	-0.1265	-0.0066	-0.0258
74	215	210	425	SLU 46	0.05468	1.01061	-0.08195	-0.1265	0.0006	-0.0258
74	215	210	425	SLU 47	0.03434	0.00011	-0.07665	0	0.0026	0
74	215	210	425	SLU 48	0.11644	0.60631	-0.06055	-0.0759	0.0043	-0.0154
74	215	210	425	SLU 49	-0.30465	0.00001	-0.16756	-0.0001	-0.0106	0.0001
74	215	210	425	SLU 50	-0.22247	0.60677	-0.1514	-0.0759	-0.009	-0.0155
74	215	210	425	SLU 51	-0.12989	0	-0.11934	0	-0.0034	0
74	215	210	425	SLU 52	-0.04775	0.60661	-0.10321	-0.0759	-0.0018	-0.0155
74	215	210	425	SLE RA 1	-0.15631	0	-0.11158	0	-0.0061	0
74	215	210	425	SLE RA 2	-0.06501	0.67405	-0.09365	-0.0843	-0.0042	-0.0172
74	215	210	425	SLE RA 3	0.05145	0.67372	-0.06153	-0.0843	0.0005	-0.0172
74	215	210	425	SLE RA 4	0.03789	0.0001	-0.05799	0	0.0019	0
74	215	210	425	SLE RA 5	0.09263	0.40433	-0.04726	-0.0506	0.003	-0.0103
74	215	210	425	SLE RA 6	-0.09679	0.67434	-0.10065	-0.0844	-0.0051	-0.0172
74	215	210	425	SLE RA 7	0.01965	0.6738	-0.06854	-0.0843	-0.0003	-0.0172
74	215	210	425	SLE RA 8	0.00607	0.00007	-0.06502	0	0.0011	0
74	215	210	425	SLE RA 9	0.06081	0.40421	-0.05428	-0.0506	0.0021	-0.0103
74	215	210	425	SLE RA 10	-0.21992	0.00001	-0.12562	-0.0001	-0.0078	0
74	215	210	425	SLE RA 11	-0.16513	0.40449	-0.11485	-0.0506	-0.0067	-0.0103
74	215	210	425	SLE RA 12	-0.10341	0	-0.09347	0	-0.003	0
74	215	210	425	SLE RA 13	-0.04865	0.40442	-0.08272	-0.0506	-0.0019	-0.0103
74	215	210	425	SLE FR 1	-0.15631	0	-0.11158	0	-0.0061	0
74	215	210	425	SLE FR 2	-0.13804	0.13481	-0.10799	-0.0169	-0.0057	-0.0034
74	215	210	425	SLE FR 3	-0.11747	0	-0.10087	0	-0.0045	0
74	215	210	425	SLE FR 4	-0.16903	0	-0.11439	0	-0.0064	0
74	215	210	425	SLE QP 1	-0.15631	0	-0.11158	0	-0.0061	0
74	215	210	425	SLD 1	-0.34238	-0.88455	-0.20257	0.1066	-0.0216	0.0272
74	215	210	425	SLD 2	-0.34238	-0.88455	-0.20257	0.1066	-0.0216	0.0272
74	215	210	425	SLD 3	-0.41668	0.88511	-0.24086	-0.107	-0.0283	-0.0272
74	215	210	425	SLD 4	-0.41668	0.88511	-0.24086	-0.107	-0.0283	-0.0272
74	215	210	425	SLD 5	-0.09939	-2.94862	-0.08076	0.3556	-0.0006	0.0907
74	215	210	425	SLD 6	-0.09939	-2.94862	-0.08076	0.3556	-0.0006	0.0907
74	215	210	425	SLD 7	-0.34711	2.95087	-0.20844	-0.3567	-0.0229	-0.0906
74	215	210	425	SLD 8	-0.34711	2.95087	-0.20844	-0.3567	-0.0229	-0.0906
74	215	210	425	SLD 9	0.03454	-2.94863	-0.01468	0.3556	0.0107	0.0907
74	215	210	425	SLD 10	0.03454	-2.94863	-0.01468	0.3556	0.0107	0.0907
74	215	210	425	SLD 11	-0.21318	2.95093	-0.14236	-0.3567	-0.0115	-0.0906
74	215	210	425	SLD 12	-0.21318	2.95093	-0.14236	-0.3567	-0.0115	-0.0906
74	215	210	425	SLD 13	0.10403	-0.88477	0.01769	0.1067	0.0161	0.0272
74	215	210	425	SLD 14	0.10403	-0.88477	0.01769	0.1067	0.0161	0.0272
74	215	210	425	SLD 15	0.02976	0.88548	-0.0206	-0.107	0.0095	-0.0272

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
74	215	210	425	SLD 16	0.02976	0.88548	-0.0206	-0.107	0.0095	-0.0272
74	215	210	425	SLV 1	-0.63426	-2.27241	-0.34529	0.274	-0.046	0.0699
74	215	210	425	SLV 2	-0.63426	-2.27241	-0.34529	0.274	-0.046	0.0699
74	215	210	425	SLV 3	-0.82517	2.27394	-0.44368	-0.2749	-0.0631	-0.0698
74	215	210	425	SLV 4	-0.82517	2.27394	-0.44368	-0.2749	-0.0631	-0.0698
74	215	210	425	SLV 5	-0.01001	-7.57431	-0.03236	0.9135	0.008	0.2329
74	215	210	425	SLV 6	-0.01001	-7.57431	-0.03236	0.9135	0.008	0.2329
74	215	210	425	SLV 7	-0.64644	7.58018	-0.36038	-0.9163	-0.0492	-0.2327
74	215	210	425	SLV 8	-0.64644	7.58018	-0.36038	-0.9163	-0.0492	-0.2327
74	215	210	425	SLV 9	0.33404	-7.57434	0.13739	0.9135	0.0371	0.2329
74	215	210	425	SLV 10	0.33404	-7.57434	0.13739	0.9135	0.0371	0.2329
74	215	210	425	SLV 11	-0.30239	7.58033	-0.19063	-0.9163	-0.0201	-0.2327
74	215	210	425	SLV 12	-0.30239	7.58033	-0.19063	-0.9163	-0.0201	-0.2327
74	215	210	425	SLV 13	0.51256	-2.27251	0.22054	0.2741	0.051	0.0698
74	215	210	425	SLV 14	0.51256	-2.27251	0.22054	0.2741	0.051	0.0698
74	215	210	425	SLV 15	0.32168	2.27445	0.12216	-0.275	0.0338	-0.0698
74	215	210	425	SLV 16	0.32168	2.27445	0.12216	-0.275	0.0338	-0.0698
74	215	210	425	SLV FO 1	-0.63426	-2.27241	-0.34529	0.274	-0.046	0.0699
74	215	210	425	SLV FO 2	-0.63426	-2.27241	-0.34529	0.274	-0.046	0.0699
74	215	210	425	SLV FO 3	-0.82517	2.27394	-0.44368	-0.2749	-0.0631	-0.0698
74	215	210	425	SLV FO 4	-0.82517	2.27394	-0.44368	-0.2749	-0.0631	-0.0698
74	215	210	425	SLV FO 5	-0.01001	-7.57431	-0.03236	0.9135	0.008	0.2329
74	215	210	425	SLV FO 6	-0.01001	-7.57431	-0.03236	0.9135	0.008	0.2329
74	215	210	425	SLV FO 7	-0.64644	7.58018	-0.36038	-0.9163	-0.0492	-0.2327
74	215	210	425	SLV FO 8	-0.64644	7.58018	-0.36038	-0.9163	-0.0492	-0.2327
74	215	210	425	SLV FO 9	0.33404	-7.57434	0.13739	0.9135	0.0371	0.2329
74	215	210	425	SLV FO 10	0.33404	-7.57434	0.13739	0.9135	0.0371	0.2329
74	215	210	425	SLV FO 11	-0.30239	7.58033	-0.19063	-0.9163	-0.0201	-0.2327
74	215	210	425	SLV FO 12	-0.30239	7.58033	-0.19063	-0.9163	-0.0201	-0.2327
74	215	210	425	SLV FO 13	0.51256	-2.27251	0.22054	0.2741	0.051	0.0698
74	215	210	425	SLV FO 14	0.51256	-2.27251	0.22054	0.2741	0.051	0.0698
74	215	210	425	SLV FO 15	0.32168	2.27445	0.12216	-0.275	0.0338	-0.0698
74	215	210	425	SLV FO 16	0.32168	2.27445	0.12216	-0.275	0.0338	-0.0698
75	215	710	425	SLU 1	-0.13479	0	-0.10923	0	-0.0058	0
75	215	710	425	SLU 2	0.08066	1.0103	-0.08584	-0.1262	-0.0053	-0.0261
75	215	710	425	SLU 3	0.30241	1.00986	-0.04178	-0.1261	0.0001	-0.0261
75	215	710	425	SLU 4	0.23476	0	-0.03582	0	0.0032	0
75	215	710	425	SLU 5	0.3641	0.60589	-0.02176	-0.0756	0.0035	-0.0157
75	215	710	425	SLU 6	0.01556	1.01052	-0.09121	-0.1262	-0.0051	-0.0261
75	215	710	425	SLU 7	0.23737	1.00991	-0.04713	-0.1261	0.0003	-0.0261
75	215	710	425	SLU 8	0.16971	0	-0.04117	0	0.0034	0
75	215	710	425	SLU 9	0.29902	0.60598	-0.02712	-0.0756	0.0037	-0.0157
75	215	710	425	SLU 10	-0.26495	0	-0.11995	0	-0.0055	0
75	215	710	425	SLU 11	-0.13571	0.60659	-0.10593	-0.0758	-0.0052	-0.0157
75	215	710	425	SLU 12	-0.04314	0	-0.07587	0	-0.0001	0
75	215	710	425	SLU 13	0.08613	0.606	-0.06184	-0.0757	0.0002	-0.0157
75	215	710	425	SLU 14	-0.19634	0	-0.11591	0	-0.0059	0
75	215	710	425	SLU 15	0.01909	1.01052	-0.09253	-0.1262	-0.0054	-0.0261
75	215	710	425	SLU 16	0.24089	1.00991	-0.04845	-0.1261	0	-0.0261
75	215	710	425	SLU 17	0.17324	0	-0.04249	0	0.0031	0
75	215	710	425	SLU 18	0.30255	0.60598	-0.02844	-0.0756	0.0034	-0.0157
75	215	710	425	SLU 19	-0.04597	1.0106	-0.09788	-0.1262	-0.0053	-0.0261
75	215	710	425	SLU 20	0.17584	1.00997	-0.0538	-0.1261	0.0001	-0.0261
75	215	710	425	SLU 21	0.10819	0	-0.04784	0	0.0032	0
75	215	710	425	SLU 22	0.23747	0.60584	-0.0338	-0.0756	0.0035	-0.0157
75	215	710	425	SLU 23	-0.3265	0	-0.12663	0	-0.0056	0
75	215	710	425	SLU 24	-0.19726	0.60658	-0.11262	-0.0758	-0.0053	-0.0157
75	215	710	425	SLU 25	-0.10466	0	-0.08254	0	-0.0002	0
75	215	710	425	SLU 26	0.02456	0.60624	-0.06853	-0.0757	0.0001	-0.0157
75	215	710	425	SLU 27	-0.17523	0	-0.142	0	-0.0075	0
75	215	710	425	SLU 28	0.04023	1.01033	-0.1186	-0.1262	-0.007	-0.0261
75	215	710	425	SLU 29	0.26199	1.00988	-0.07454	-0.1261	-0.0016	-0.0261
75	215	710	425	SLU 30	0.19434	0	-0.06859	0	0.0015	0
75	215	710	425	SLU 31	0.32368	0.60589	-0.05452	-0.0756	0.0018	-0.0157
75	215	710	425	SLU 32	-0.02486	1.01056	-0.12397	-0.1262	-0.0069	-0.0261
75	215	710	425	SLU 33	0.19695	1.00993	-0.07989	-0.1261	-0.0015	-0.0261
75	215	710	425	SLU 34	0.12929	0	-0.07393	0	0.0016	0
75	215	710	425	SLU 35	0.2586	0.60599	-0.05988	-0.0756	0.0019	-0.0157
75	215	710	425	SLU 36	-0.30538	0	-0.15272	0	-0.0072	0
75	215	710	425	SLU 37	-0.17614	0.60663	-0.1387	-0.0758	-0.0069	-0.0157
75	215	710	425	SLU 38	-0.08355	0	-0.10863	0	-0.0018	0
75	215	710	425	SLU 39	0.04571	0.60602	-0.0946	-0.0757	-0.0015	-0.0157
75	215	710	425	SLU 40	-0.23678	0	-0.14868	0	-0.0076	0
75	215	710	425	SLU 41	-0.02134	1.01056	-0.12529	-0.1262	-0.0071	-0.0261
75	215	710	425	SLU 42	0.20047	1.00993	-0.08121	-0.1261	-0.0017	-0.0261
75	215	710	425	SLU 43	0.13282	0	-0.07525	0	0.0014	0
75	215	710	425	SLU 44	0.26213	0.60599	-0.0612	-0.0756	0.0017	-0.0157
75	215	710	425	SLU 45	-0.08642	1.01083	-0.13066	-0.1262	-0.007	-0.0261
75	215	710	425	SLU 46	0.13541	1.01002	-0.08656	-0.1261	-0.0016	-0.0261
75	215	710	425	SLU 47	0.06777	0	-0.0806	0	0.0015	0
75	215	710	425	SLU 48	0.19705	0.60586	-0.06656	-0.0756	0.0018	-0.0157
75	215	710	425	SLU 49	-0.36694	0	-0.1594	0	-0.0074	0
75	215	710	425	SLU 50	-0.23769	0.60661	-0.14538	-0.0758	-0.0071	-0.0157
75	215	710	425	SLU 51	-0.14518	0	-0.11536	0	-0.002	0
75	215	710	425	SLU 52	-0.01587	0.60631	-0.1013	-0.0757	-0.0017	-0.0157
75	215	710	425	SLE RA 1	-0.17582	0	-0.11368	0	-0.0059	0
75	215	710	425	SLE RA 2	-0.03219	0.67372	-0.09809	-0.0841	-0.0055	-0.0174
75	215	710	425	SLE RA 3	0.11568	0.6733	-0.0687	-0.0841	-0.0019	-0.0174
75	215	710	425	SLE RA 4	0.07058	0	-0.06473	0	0.0001	0
75	215	710	425	SLE RA 5	0.15679	0.404	-0.05536	-0.0504	0.0003	-0.0105
75	215	710	425	SLE RA 6	-0.07561	0.67405	-0.10168	-0.0842	-0.0054	-0.0174
75	215	710	425	SLE RA 7	0.07229	0.67341	-0.07228	-0.0841	-0.0018	-0.0174
75	215	710	425	SLE RA 8	0.02721	0	-0.0683	0	0.0002	0
75	215	710	425	SLE RA 9	0.1134	0.40391	-0.05893	-0.0504	0.0004	-0.0104
75	215	710	425	SLE RA 10	-0.2626	0	-0.12083	0	-0.0057	0
75	215	710	425	SLE RA 11	-0.17644	0.40439	-0.11149	-0.0505	-0.0055	-0.0104
75	215	710	425	SLE RA 12	-0.11476	0	-0.09147	0	-0.0021	0
75	215	710	425	SLE RA 13	-0.02854	0.40422	-0.08209	-0.0505	-0.0019	-0.0104
75	215	710	425	SLE FR 1	-0.17582	0	-0.11368	0	-0.0059	0
75	215	710	425	SLE FR 2	-0.14711	0.1348	-0.11057	-0.0168	-0.0058	-0.0035
75	215	710	425	SLE FR 3	-0.12655	0	-0.1039	0	-0.0047	0
75	215	710	425	SLE FR 4	-0.19318	0	-0.11511	0	-0.0058	0
75	215	710	425	SLE QP 1	-0.17582	0	-0.11368	0	-0.0059	0

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
75	215	710	425	SLD 1	-0.42059	-0.88502	-0.23294	0.1068	-0.0263	0.0272
75	215	710	425	SLD 2	-0.42059	-0.88502	-0.23294	0.1068	-0.0263	0.0272
75	215	710	425	SLD 3	-0.42059	0.88502	-0.23294	-0.1068	-0.0263	-0.0272
75	215	710	425	SLD 4	-0.42059	0.88502	-0.23294	-0.1068	-0.0263	-0.0272
75	215	710	425	SLD 5	-0.24902	-2.95016	-0.14933	0.3558	-0.012	0.0908
75	215	710	425	SLD 6	-0.24902	-2.95016	-0.14933	0.3558	-0.012	0.0908
75	215	710	425	SLD 7	-0.24902	2.95016	-0.14933	-0.3558	-0.012	-0.0908
75	215	710	425	SLD 8	-0.24902	2.95016	-0.14933	-0.3558	-0.012	-0.0908
75	215	710	425	SLD 9	-0.10212	-2.95017	-0.07775	0.3558	0.0003	0.0908
75	215	710	425	SLD 10	-0.10212	-2.95017	-0.07775	0.3558	0.0003	0.0908
75	215	710	425	SLD 11	-0.10212	2.95017	-0.07775	-0.3558	0.0003	-0.0908
75	215	710	425	SLD 12	-0.10212	2.95017	-0.07775	-0.3558	0.0003	-0.0908
75	215	710	425	SLD 13	0.06913	-0.88523	0.00567	0.1068	0.0146	0.0272
75	215	710	425	SLD 14	0.06913	-0.88523	0.00567	0.1068	0.0146	0.0272
75	215	710	425	SLD 15	0.06913	0.88523	0.00567	-0.1068	0.0146	-0.0272
75	215	710	425	SLD 16	0.06913	0.88523	0.00567	-0.1068	0.0146	-0.0272
75	215	710	425	SLV 1	-0.8046	-2.2736	-0.42004	0.2743	-0.0584	0.0699
75	215	710	425	SLV 2	-0.8046	-2.2736	-0.42004	0.2743	-0.0584	0.0699
75	215	710	425	SLV 3	-0.8046	2.2736	-0.42004	-0.2743	-0.0584	-0.0699
75	215	710	425	SLV 4	-0.8046	2.2736	-0.42004	-0.2743	-0.0584	-0.0699
75	215	710	425	SLV 5	-0.36394	-7.57826	-0.20529	0.914	-0.0216	0.2332
75	215	710	425	SLV 6	-0.36394	-7.57826	-0.20529	0.914	-0.0216	0.2332
75	215	710	425	SLV 7	-0.36394	7.57826	-0.20529	-0.914	-0.0216	-0.2332
75	215	710	425	SLV 8	-0.36394	7.57826	-0.20529	-0.914	-0.0216	-0.2332
75	215	710	425	SLV 9	0.01345	-7.57829	-0.02141	0.914	0.0099	0.2332
75	215	710	425	SLV 10	0.01345	-7.57829	-0.02141	0.914	0.0099	0.2332
75	215	710	425	SLV 11	0.01345	7.57829	-0.02141	-0.914	0.0099	-0.2332
75	215	710	425	SLV 12	0.01345	7.57829	-0.02141	-0.914	0.0099	-0.2332
75	215	710	425	SLV 13	0.45336	-2.27369	0.1929	0.2742	0.0467	0.07
75	215	710	425	SLV 14	0.45336	-2.27369	0.1929	0.2742	0.0467	0.07
75	215	710	425	SLV 15	0.45336	2.27369	0.1929	-0.2742	0.0467	-0.07
75	215	710	425	SLV 16	0.45336	2.27369	0.1929	-0.2742	0.0467	-0.07
75	215	710	425	SLV FO 1	-0.8046	-2.2736	-0.42004	0.2743	-0.0584	0.0699
75	215	710	425	SLV FO 2	-0.8046	-2.2736	-0.42004	0.2743	-0.0584	0.0699
75	215	710	425	SLV FO 3	-0.8046	2.2736	-0.42004	-0.2743	-0.0584	-0.0699
75	215	710	425	SLV FO 4	-0.8046	2.2736	-0.42004	-0.2743	-0.0584	-0.0699
75	215	710	425	SLV FO 5	-0.36394	-7.57826	-0.20529	0.914	-0.0216	0.2332
75	215	710	425	SLV FO 6	-0.36394	-7.57826	-0.20529	0.914	-0.0216	0.2332
75	215	710	425	SLV FO 7	-0.36394	7.57826	-0.20529	-0.914	-0.0216	-0.2332
75	215	710	425	SLV FO 8	-0.36394	7.57826	-0.20529	-0.914	-0.0216	-0.2332
75	215	710	425	SLV FO 9	0.01345	-7.57829	-0.02141	0.914	0.0099	0.2332
75	215	710	425	SLV FO 10	0.01345	-7.57829	-0.02141	0.914	0.0099	0.2332
75	215	710	425	SLV FO 11	0.01345	7.57829	-0.02141	-0.914	0.0099	-0.2332
75	215	710	425	SLV FO 12	0.01345	7.57829	-0.02141	-0.914	0.0099	-0.2332
75	215	710	425	SLV FO 13	0.45336	-2.27369	0.1929	0.2742	0.0467	0.07
75	215	710	425	SLV FO 14	0.45336	-2.27369	0.1929	0.2742	0.0467	0.07
75	215	710	425	SLV FO 15	0.45336	2.27369	0.1929	-0.2742	0.0467	-0.07
75	215	710	425	SLV FO 16	0.45336	2.27369	0.1929	-0.2742	0.0467	-0.07
76	215	1210	425	SLU 1	-0.12613	0	-0.10436	0	-0.0052	0
76	215	1210	425	SLU 2	0.05393	1.00966	-0.05532	-0.1261	0.0015	-0.0261
76	215	1210	425	SLU 3	0.22876	1.00922	-0.00706	-0.1261	0.0087	-0.026
76	215	1210	425	SLU 4	0.16522	-0.00022	-0.02395	0.0001	0.0068	0
76	215	1210	425	SLU 5	0.27326	0.60551	0.00548	-0.0756	0.0108	-0.0156
76	215	1210	425	SLU 6	0.00619	1.00988	-0.06587	-0.1261	0.0002	-0.0261
76	215	1210	425	SLU 7	0.18103	1.00928	-0.01761	-0.126	0.0074	-0.026
76	215	1210	425	SLU 8	0.11748	-0.00017	-0.03449	0.0001	0.0055	0
76	215	1210	425	SLU 9	0.22552	0.6056	-0.00507	-0.0756	0.0095	-0.0156
76	215	1210	425	SLU 10	-0.22155	-0.00001	-0.12541	0.0001	-0.0077	0
76	215	1210	425	SLU 11	-0.11356	0.6062	-0.09602	-0.0756	-0.0037	-0.0157
76	215	1210	425	SLU 12	-0.04681	-0.00001	-0.0772	0	-0.0005	0
76	215	1210	425	SLU 13	0.06125	0.60562	-0.04777	-0.0756	0.0035	-0.0156
76	215	1210	425	SLU 14	-0.1714	0	-0.11519	0	-0.0065	0
76	215	1210	425	SLU 15	0.00864	1.00988	-0.06617	-0.1261	0.0002	-0.0261
76	215	1210	425	SLU 16	0.18347	1.00927	-0.01792	-0.126	0.0073	-0.026
76	215	1210	425	SLU 17	0.11993	-0.00017	-0.0348	0.0001	0.0054	0
76	215	1210	425	SLU 18	0.22796	0.6056	-0.00538	-0.0756	0.0095	-0.0156
76	215	1210	425	SLU 19	-0.0391	1.00996	-0.07672	-0.1261	-0.0011	-0.0261
76	215	1210	425	SLU 20	0.13573	1.00933	-0.02846	-0.126	0.0061	-0.0261
76	215	1210	425	SLU 21	0.07219	-0.00012	-0.04534	0.0001	0.0042	0
76	215	1210	425	SLU 22	0.18025	0.60546	-0.01591	-0.0756	0.0082	-0.0156
76	215	1210	425	SLU 23	-0.26682	-0.00001	-0.13625	0.0001	-0.0091	-0.0001
76	215	1210	425	SLU 24	-0.15883	0.60619	-0.10685	-0.0756	-0.005	-0.0157
76	215	1210	425	SLU 25	-0.0921	0	-0.08805	0	-0.0019	0
76	215	1210	425	SLU 26	0.01595	0.60586	-0.05862	-0.0756	0.0021	-0.0157
76	215	1210	425	SLU 27	-0.16397	0	-0.13567	0	-0.0067	0
76	215	1210	425	SLU 28	0.01608	1.00969	-0.08664	-0.1261	0	-0.0261
76	215	1210	425	SLU 29	0.19091	1.00924	-0.03838	-0.1261	0.0071	-0.026
76	215	1210	425	SLU 30	0.12737	-0.00021	-0.05526	0.0001	0.0052	0
76	215	1210	425	SLU 31	0.2354	0.60551	-0.02584	-0.0756	0.0092	-0.0156
76	215	1210	425	SLU 32	-0.03166	1.00992	-0.09718	-0.1261	-0.0013	-0.0261
76	215	1210	425	SLU 33	0.14317	1.0093	-0.04892	-0.126	0.0059	-0.026
76	215	1210	425	SLU 34	0.07963	-0.00015	-0.0658	0.0001	0.004	0
76	215	1210	425	SLU 35	0.18766	0.60561	-0.03638	-0.0756	0.008	-0.0156
76	215	1210	425	SLU 36	-0.25939	-0.00001	-0.15672	0.0001	-0.0093	0
76	215	1210	425	SLU 37	-0.15141	0.60624	-0.12733	-0.0756	-0.0053	-0.0157
76	215	1210	425	SLU 38	-0.08466	0	-0.10852	0	-0.0021	0
76	215	1210	425	SLU 39	0.02339	0.60564	-0.07909	-0.0756	0.0019	-0.0156
76	215	1210	425	SLU 40	-0.20924	0	-0.1465	0.0001	-0.0081	0
76	215	1210	425	SLU 41	-0.02921	1.00992	-0.09749	-0.1261	-0.0014	-0.0261
76	215	1210	425	SLU 42	0.14562	1.00929	-0.04923	-0.126	0.0058	-0.026
76	215	1210	425	SLU 43	0.08207	-0.00016	-0.06611	0.0001	0.0039	0
76	215	1210	425	SLU 44	0.19011	0.60561	-0.03669	-0.0756	0.0079	-0.0156
76	215	1210	425	SLU 45	-0.07695	1.01019	-0.10803	-0.1261	-0.0027	-0.0261
76	215	1210	425	SLU 46	0.09788	1.00938	-0.05977	-0.126	0.0045	-0.0261
76	215	1210	425	SLU 47	0.03434	-0.00011	-0.07665	0	0.0026	0
76	215	1210	425	SLU 48	0.1424	0.60548	-0.04722	-0.0756	0.0066	-0.0156
76	215	1210	425	SLU 49	-0.30465	-0.00001	-0.16756	0.0001	-0.0106	-0.0001
76	215	1210	425	SLU 50	-0.19667	0.60623	-0.13817	-0.0756	-0.0066	-0.0157
76	215	1210	425	SLU 51	-0.12989	0	-0.11934	0	-0.0034	0
76	215	1210	425	SLU 52	-0.0219	0.60592	-0.08994	-0.0756	0.0006	-0.0157

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
76	215	1210	425	SLE RA 1	-0.15631	0	-0.11158	0	-0.0061	0
76	215	1210	425	SLE RA 2	-0.0363	0.6733	-0.07891	-0.084	-0.0016	-0.0174
76	215	1210	425	SLE RA 3	0.08026	0.67287	-0.04674	-0.084	0.0032	-0.0174
76	215	1210	425	SLE RA 4	0.03789	-0.0001	-0.05799	0	0.0019	0
76	215	1210	425	SLE RA 5	0.10992	0.40374	-0.03838	-0.0504	0.0046	-0.0104
76	215	1210	425	SLE RA 6	-0.06811	0.67362	-0.08593	-0.0841	-0.0025	-0.0174
76	215	1210	425	SLE RA 7	0.04843	0.67299	-0.05377	-0.084	0.0023	-0.0174
76	215	1210	425	SLE RA 8	0.00607	-0.00007	-0.06502	0	0.0011	0
76	215	1210	425	SLE RA 9	0.07811	0.40366	-0.0454	-0.0504	0.0037	-0.0104
76	215	1210	425	SLE RA 10	-0.21992	-0.00001	-0.12562	0.0001	-0.0078	0
76	215	1210	425	SLE RA 11	-0.14793	0.40413	-0.10602	-0.0504	-0.0051	-0.0105
76	215	1210	425	SLE RA 12	-0.10341	0	-0.09347	0	-0.003	0
76	215	1210	425	SLE RA 13	-0.03142	0.40396	-0.07387	-0.0504	-0.0003	-0.0104
76	215	1210	425	SLE FR 1	-0.15631	0	-0.11158	0	-0.0061	0
76	215	1210	425	SLE FR 2	-0.13231	0.13471	-0.10505	-0.0168	-0.0052	-0.0035
76	215	1210	425	SLE FR 3	-0.11747	0	-0.10087	0	-0.0045	0
76	215	1210	425	SLE FR 4	-0.16903	0	-0.11439	0	-0.0064	0
76	215	1210	425	SLE QP 1	-0.15631	0	-0.11158	0	-0.0061	0
76	215	1210	425	SLD 1	-0.41668	-0.88511	-0.24086	0.107	-0.0283	0.0272
76	215	1210	425	SLD 2	-0.41668	-0.88511	-0.24086	0.107	-0.0283	0.0272
76	215	1210	425	SLD 3	-0.34238	0.88455	-0.20257	-0.1066	-0.0216	-0.0272
76	215	1210	425	SLD 4	-0.34238	0.88455	-0.20257	-0.1066	-0.0216	-0.0272
76	215	1210	425	SLD 5	-0.34711	-2.95087	-0.20844	0.3567	-0.0229	0.0906
76	215	1210	425	SLD 6	-0.34711	-2.95087	-0.20844	0.3567	-0.0229	0.0906
76	215	1210	425	SLD 7	-0.09939	2.94862	-0.08076	-0.3556	-0.0006	-0.0907
76	215	1210	425	SLD 8	-0.09939	2.94862	-0.08076	-0.3556	-0.0006	-0.0907
76	215	1210	425	SLD 9	-0.21318	-2.95093	-0.14236	0.3567	-0.0115	0.0906
76	215	1210	425	SLD 10	-0.21318	-2.95093	-0.14236	0.3567	-0.0115	0.0906
76	215	1210	425	SLD 11	0.03454	2.94863	-0.01468	-0.3556	0.0107	-0.0907
76	215	1210	425	SLD 12	0.03454	2.94863	-0.01468	-0.3556	0.0107	-0.0907
76	215	1210	425	SLD 13	0.02976	-0.88548	-0.0206	0.107	0.0095	0.0272
76	215	1210	425	SLD 14	0.02976	-0.88548	-0.0206	0.107	0.0095	0.0272
76	215	1210	425	SLD 15	0.10403	0.88477	0.01769	-0.1067	0.0161	-0.0272
76	215	1210	425	SLD 16	0.10403	0.88477	0.01769	-0.1067	0.0161	-0.0272
76	215	1210	425	SLV 1	-0.82517	-2.27394	-0.44368	0.2749	-0.0631	0.0698
76	215	1210	425	SLV 2	-0.82517	-2.27394	-0.44368	0.2749	-0.0631	0.0698
76	215	1210	425	SLV 3	-0.63426	2.27241	-0.34529	-0.274	-0.046	-0.0699
76	215	1210	425	SLV 4	-0.63426	2.27241	-0.34529	-0.274	-0.046	-0.0699
76	215	1210	425	SLV 5	-0.64644	-7.58018	-0.36038	0.9163	-0.0492	0.2327
76	215	1210	425	SLV 6	-0.64644	-7.58018	-0.36038	0.9163	-0.0492	0.2327
76	215	1210	425	SLV 7	-0.01001	7.57431	-0.03236	-0.9135	0.008	-0.2329
76	215	1210	425	SLV 8	-0.01001	7.57431	-0.03236	-0.9135	0.008	-0.2329
76	215	1210	425	SLV 9	-0.30239	-7.58033	-0.19063	0.9163	-0.0201	0.2327
76	215	1210	425	SLV 10	-0.30239	-7.58033	-0.19063	0.9163	-0.0201	0.2327
76	215	1210	425	SLV 11	0.33404	7.57434	0.13739	-0.9135	0.0371	-0.2329
76	215	1210	425	SLV 12	0.33404	7.57434	0.13739	-0.9135	0.0371	-0.2329
76	215	1210	425	SLV 13	0.32168	-2.27445	0.12216	0.275	0.0338	0.0698
76	215	1210	425	SLV 14	0.32168	-2.27445	0.12216	0.275	0.0338	0.0698
76	215	1210	425	SLV 15	0.51256	2.27251	0.22054	-0.2741	0.051	-0.0698
76	215	1210	425	SLV 16	0.51256	2.27251	0.22054	-0.2741	0.051	-0.0698
76	215	1210	425	SLV FO 1	-0.82517	-2.27394	-0.44368	0.2749	-0.0631	0.0698
76	215	1210	425	SLV FO 2	-0.82517	-2.27394	-0.44368	0.2749	-0.0631	0.0698
76	215	1210	425	SLV FO 3	-0.63426	2.27241	-0.34529	-0.274	-0.046	-0.0699
76	215	1210	425	SLV FO 4	-0.63426	2.27241	-0.34529	-0.274	-0.046	-0.0699
76	215	1210	425	SLV FO 5	-0.64644	-7.58018	-0.36038	0.9163	-0.0492	0.2327
76	215	1210	425	SLV FO 6	-0.64644	-7.58018	-0.36038	0.9163	-0.0492	0.2327
76	215	1210	425	SLV FO 7	-0.01001	7.57431	-0.03236	-0.9135	0.008	-0.2329
76	215	1210	425	SLV FO 8	-0.01001	7.57431	-0.03236	-0.9135	0.008	-0.2329
76	215	1210	425	SLV FO 9	-0.30239	-7.58033	-0.19063	0.9163	-0.0201	0.2327
76	215	1210	425	SLV FO 10	-0.30239	-7.58033	-0.19063	0.9163	-0.0201	0.2327
76	215	1210	425	SLV FO 11	0.33404	7.57434	0.13739	-0.9135	0.0371	-0.2329
76	215	1210	425	SLV FO 12	0.33404	7.57434	0.13739	-0.9135	0.0371	-0.2329
76	215	1210	425	SLV FO 13	0.32168	-2.27445	0.12216	0.275	0.0338	0.0698
76	215	1210	425	SLV FO 14	0.32168	-2.27445	0.12216	0.275	0.0338	0.0698
76	215	1210	425	SLV FO 15	0.51256	2.27251	0.22054	-0.2741	0.051	-0.0698
76	215	1210	425	SLV FO 16	0.51256	2.27251	0.22054	-0.2741	0.051	-0.0698
77	1495	210	439.4	SLU 1	-0.15661	0.00003	-0.34537	0	-0.0103	0
77	1495	210	439.4	SLU 2	0.00966	1.01565	-0.01264	-0.0904	0.003	-0.0015
77	1495	210	439.4	SLU 3	0.21623	1.0157	0.21867	-0.0904	0.0094	-0.0015
77	1495	210	439.4	SLU 4	0.1878	0.00026	0.04017	0	0.0003	0
77	1495	210	439.4	SLU 5	0.28746	0.60936	0.23978	-0.0542	0.0082	-0.0009
77	1495	210	439.4	SLU 6	-0.0481	1.01559	-0.11583	-0.0904	-0.0009	-0.0015
77	1495	210	439.4	SLU 7	0.15841	1.01572	0.11546	-0.0904	0.0054	-0.0015
77	1495	210	439.4	SLU 8	0.12997	0.00021	-0.06304	0	-0.0037	0
77	1495	210	439.4	SLU 9	0.22967	0.60937	0.13659	-0.0542	0.0043	-0.0009
77	1495	210	439.4	SLU 10	-0.27221	0.00013	-0.55177	0	-0.0181	0
77	1495	210	439.4	SLU 11	-0.17238	0.60934	-0.35212	-0.0543	-0.0101	-0.0009
77	1495	210	439.4	SLU 12	-0.06563	0.00004	-0.32046	0	-0.0118	0
77	1495	210	439.4	SLU 13	0.03412	0.60944	-0.12083	-0.0542	-0.0038	-0.0009
77	1495	210	439.4	SLU 14	-0.21163	0.00008	-0.44215	0	-0.0139	0
77	1495	210	439.4	SLU 15	-0.04531	1.01559	-0.10941	-0.0904	-0.0006	-0.0015
77	1495	210	439.4	SLU 16	0.1612	1.01572	0.12188	-0.0904	0.0057	-0.0015
77	1495	210	439.4	SLU 17	0.13276	0.00021	-0.05662	0	-0.0034	0
77	1495	210	439.4	SLU 18	0.23246	0.60937	0.14301	-0.0542	0.0046	-0.0009
77	1495	210	439.4	SLU 19	-0.10312	1.0156	-0.21261	-0.0904	-0.0045	-0.0015
77	1495	210	439.4	SLU 20	0.10339	1.01574	0.01868	-0.0904	0.0018	-0.0015
77	1495	210	439.4	SLU 21	0.07494	0.00016	-0.15983	0	-0.0073	0
77	1495	210	439.4	SLU 22	0.17464	0.60943	0.0398	-0.0542	0.0007	-0.0009
77	1495	210	439.4	SLU 23	-0.32722	0.00018	-0.64855	0	-0.0218	0
77	1495	210	439.4	SLU 24	-0.2274	0.60939	-0.4489	-0.0543	-0.0138	-0.0009
77	1495	210	439.4	SLU 25	-0.12066	-0.00001	-0.41725	0	-0.0154	0
77	1495	210	439.4	SLU 26	-0.02085	0.60938	-0.2176	-0.0542	-0.0074	-0.0009
77	1495	210	439.4	SLU 27	-0.2036	0.00004	-0.44898	0	-0.0134	0
77	1495	210	439.4	SLU 28	-0.03733	1.01566	-0.11625	-0.0904	-0.0001	-0.0015
77	1495	210	439.4	SLU 29	0.16924	1.0157	0.11506	-0.0904	0.0063	-0.0015
77	1495	210	439.4	SLU 30	0.1408	0.00025	-0.06345	0	-0.0028	0
77	1495	210	439.4	SLU 31	0.24046	0.60934	0.13617	-0.0542	0.0052	-0.0009
77	1495	210	439.4	SLU 32	-0.09509	1.01559	-0.21944	-0.0904	-0.004	-0.0015
77	1495	210	439.4	SLU 33	0.11142	1.01572	0.01185	-0.0904	0.0024	-0.0015
77	1495	210	439.4	SLU 34	0.08298	0.0002	-0.16665	0	-0.0067	0
77	1495	210	439.4	SLU 35	0.18268	0.60937	0.03297	-0.0542	0.0012	-0.0009
77	1495	210	439.4	SLU 36	-0.31919	0.00014	-0.65538	0	-0.0212	0
77	1495	210	439.4	SLU 37	-0.21937	0.60934	-0.45573	-0.0543	-0.0132	-0.0009

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
77	1495	210	439.4	SLU 38	-0.11263	0.00003	-0.42407	0	-0.0149	0
77	1495	210	439.4	SLU 39	-0.01288	0.60944	-0.22444	-0.0542	-0.0069	-0.0009
77	1495	210	439.4	SLU 40	-0.25861	0.00009	-0.54576	0	-0.017	0
77	1495	210	439.4	SLU 41	-0.0923	1.01559	-0.21302	-0.0904	-0.0037	-0.0015
77	1495	210	439.4	SLU 42	0.11421	1.01572	0.01827	-0.0904	0.0026	-0.0015
77	1495	210	439.4	SLU 43	0.08577	0.0002	-0.16023	0	-0.0065	0
77	1495	210	439.4	SLU 44	0.18546	0.60937	0.03939	-0.0542	0.0015	-0.0009
77	1495	210	439.4	SLU 45	-0.15007	1.01555	-0.31622	-0.0904	-0.0076	-0.0015
77	1495	210	439.4	SLU 46	0.05641	1.01573	-0.08493	-0.0904	-0.0013	-0.0015
77	1495	210	439.4	SLU 47	0.02794	0.00015	-0.26344	0	-0.0104	0
77	1495	210	439.4	SLU 48	0.12765	0.60943	-0.06381	-0.0542	-0.0024	-0.0009
77	1495	210	439.4	SLU 49	-0.3742	0.00019	-0.75216	0	-0.0249	0
77	1495	210	439.4	SLU 50	-0.27438	0.60939	-0.55251	-0.0543	-0.0169	-0.0009
77	1495	210	439.4	SLU 51	-0.16759	0.00001	-0.52085	0	-0.0185	0
77	1495	210	439.4	SLU 52	-0.06783	0.60937	-0.32121	-0.0542	-0.0105	-0.0009
77	1495	210	439.4	SLE RA 1	-0.19329	0.00006	-0.40989	0	-0.0127	0
77	1495	210	439.4	SLE RA 2	-0.08242	0.67706	-0.18806	-0.0603	-0.0038	-0.001
77	1495	210	439.4	SLE RA 3	0.05525	0.67715	-0.03387	-0.0603	0.0004	-0.001
77	1495	210	439.4	SLE RA 4	0.03629	0.00013	-0.15287	0	-0.0057	0
77	1495	210	439.4	SLE RA 5	0.10276	0.40624	-0.01979	-0.0361	-0.0004	-0.0006
77	1495	210	439.4	SLE RA 6	-0.12091	0.67699	-0.25685	-0.0602	-0.0065	-0.001
77	1495	210	439.4	SLE RA 7	0.01674	0.67713	-0.10267	-0.0603	-0.0022	-0.001
77	1495	210	439.4	SLE RA 8	-0.00226	0.0001	-0.22168	0	-0.0083	0
77	1495	210	439.4	SLE RA 9	0.06421	0.40628	-0.08859	-0.0362	-0.003	-0.0006
77	1495	210	439.4	SLE RA 10	-0.27035	0.00013	-0.54749	0	-0.0179	0
77	1495	210	439.4	SLE RA 11	-0.2038	0.40627	-0.41439	-0.0362	-0.0126	-0.0006
77	1495	210	439.4	SLE RA 12	-0.13261	0.00001	-0.39328	0	-0.0137	0
77	1495	210	439.4	SLE RA 13	-0.06611	0.40625	-0.26019	-0.0362	-0.0084	-0.0006
77	1495	210	439.4	SLE FR 1	-0.19329	0.00006	-0.40989	0	-0.0127	0
77	1495	210	439.4	SLE FR 2	-0.1711	0.13545	-0.36552	-0.0121	-0.0109	-0.0002
77	1495	210	439.4	SLE FR 3	-0.14737	0.00003	-0.35848	0	-0.0113	0
77	1495	210	439.4	SLE FR 4	-0.2087	0.00008	-0.43741	0	-0.0138	0
77	1495	210	439.4	SLE QP 1	-0.19329	0.00006	-0.40989	0	-0.0127	0
77	1495	210	439.4	SLD 1	-0.41496	-0.74344	-0.47209	0.0831	-0.0087	0.007
77	1495	210	439.4	SLD 2	-0.41496	-0.74344	-0.47209	0.0831	-0.0087	0.007
77	1495	210	439.4	SLD 3	-0.50478	0.74455	-0.49339	-0.0832	-0.0068	-0.0069
77	1495	210	439.4	SLD 4	-0.50478	0.74455	-0.49339	-0.0832	-0.0068	-0.0069
77	1495	210	439.4	SLD 5	-0.1236	-2.47785	-0.39628	0.2769	-0.0144	0.0232
77	1495	210	439.4	SLD 6	-0.1236	-2.47785	-0.39628	0.2769	-0.0144	0.0232
77	1495	210	439.4	SLD 7	-0.42304	2.48156	-0.46729	-0.2772	-0.008	-0.0229
77	1495	210	439.4	SLD 8	-0.42304	2.48156	-0.46729	-0.2772	-0.008	-0.0229
77	1495	210	439.4	SLD 9	0.03633	-2.47782	-0.35258	0.2769	-0.0174	0.0232
77	1495	210	439.4	SLD 10	0.03633	-2.47782	-0.35258	0.2769	-0.0174	0.0232
77	1495	210	439.4	SLD 11	-0.2631	2.48153	-0.42358	-0.2772	-0.011	-0.0229
77	1495	210	439.4	SLD 12	-0.2631	2.48153	-0.42358	-0.2772	-0.011	-0.0229
77	1495	210	439.4	SLD 13	0.11811	-0.74329	-0.32643	0.0831	-0.0186	0.007
77	1495	210	439.4	SLD 14	0.11811	-0.74329	-0.32643	0.0831	-0.0186	0.007
77	1495	210	439.4	SLD 15	0.02834	0.7444	-0.34771	-0.0832	-0.0167	-0.0069
77	1495	210	439.4	SLD 16	0.02834	0.7444	-0.34771	-0.0832	-0.0167	-0.0069
77	1495	210	439.4	SLV 1	-0.7627	-1.90971	-0.56967	0.2135	-0.0025	0.0179
77	1495	210	439.4	SLV 2	-0.7627	-1.90971	-0.56967	0.2135	-0.0025	0.0179
77	1495	210	439.4	SLV 3	-0.99349	1.91257	-0.6244	-0.2137	0.0025	-0.0176
77	1495	210	439.4	SLV 4	-0.99349	1.91257	-0.6244	-0.2137	0.0025	-0.0176
77	1495	210	439.4	SLV 5	-0.01416	-6.36533	-0.37491	0.7114	-0.0172	0.0596
77	1495	210	439.4	SLV 6	-0.01416	-6.36533	-0.37491	0.7114	-0.0172	0.0596
77	1495	210	439.4	SLV 7	-0.78349	6.37487	-0.55734	-0.7121	-0.0006	-0.0588
77	1495	210	439.4	SLV 8	-0.78349	6.37487	-0.55734	-0.7121	-0.0006	-0.0588
77	1495	210	439.4	SLV 9	0.39668	-6.36525	-0.26265	0.7113	-0.0248	0.0596
77	1495	210	439.4	SLV 10	0.39668	-6.36525	-0.26265	0.7113	-0.0248	0.0596
77	1495	210	439.4	SLV 11	-0.37263	6.37479	-0.44507	-0.7121	-0.0083	-0.0588
77	1495	210	439.4	SLV 12	-0.37263	6.37479	-0.44507	-0.7121	-0.0083	-0.0588
77	1495	210	439.4	SLV 13	0.60676	-1.90945	-0.19546	0.2134	-0.0279	0.0179
77	1495	210	439.4	SLV 14	0.60676	-1.90945	-0.19546	0.2134	-0.0279	0.0179
77	1495	210	439.4	SLV 15	0.37604	1.91231	-0.25016	-0.2136	-0.023	-0.0177
77	1495	210	439.4	SLV 16	0.37604	1.91231	-0.25016	-0.2136	-0.023	-0.0177
77	1495	210	439.4	SLV FO 1	-0.7627	-1.90971	-0.56967	0.2135	-0.0025	0.0179
77	1495	210	439.4	SLV FO 2	-0.7627	-1.90971	-0.56967	0.2135	-0.0025	0.0179
77	1495	210	439.4	SLV FO 3	-0.99349	1.91257	-0.6244	-0.2137	0.0025	-0.0176
77	1495	210	439.4	SLV FO 4	-0.99349	1.91257	-0.6244	-0.2137	0.0025	-0.0176
77	1495	210	439.4	SLV FO 5	-0.01416	-6.36533	-0.37491	0.7114	-0.0172	0.0596
77	1495	210	439.4	SLV FO 6	-0.01416	-6.36533	-0.37491	0.7114	-0.0172	0.0596
77	1495	210	439.4	SLV FO 7	-0.78349	6.37487	-0.55734	-0.7121	-0.0006	-0.0588
77	1495	210	439.4	SLV FO 8	-0.78349	6.37487	-0.55734	-0.7121	-0.0006	-0.0588
77	1495	210	439.4	SLV FO 9	0.39668	-6.36525	-0.26265	0.7113	-0.0248	0.0596
77	1495	210	439.4	SLV FO 10	0.39668	-6.36525	-0.26265	0.7113	-0.0248	0.0596
77	1495	210	439.4	SLV FO 11	-0.37263	6.37479	-0.44507	-0.7121	-0.0083	-0.0588
77	1495	210	439.4	SLV FO 12	-0.37263	6.37479	-0.44507	-0.7121	-0.0083	-0.0588
77	1495	210	439.4	SLV FO 13	0.60676	-1.90945	-0.19546	0.2134	-0.0279	0.0179
77	1495	210	439.4	SLV FO 14	0.60676	-1.90945	-0.19546	0.2134	-0.0279	0.0179
77	1495	210	439.4	SLV FO 15	0.37604	1.91231	-0.25016	-0.2136	-0.023	-0.0177
77	1495	210	439.4	SLV FO 16	0.37604	1.91231	-0.25016	-0.2136	-0.023	-0.0177
78	1495	710	439.4	SLU 1	-0.16936	0	-0.39457	0	-0.0128	0
78	1495	710	439.4	SLU 2	0.09414	1.01496	0.25275	-0.1179	0.0151	0.0019
78	1495	710	439.4	SLU 3	0.35855	1.01518	0.67407	-0.1179	0.0303	0.002
78	1495	710	439.4	SLU 4	0.27125	0	0.3076	0	0.0125	0
78	1495	710	439.4	SLU 5	0.42944	0.60904	0.69602	-0.0708	0.0292	0.0012
78	1495	710	439.4	SLU 6	0.01489	1.01485	0.05536	-0.1179	0.0066	0.0019
78	1495	710	439.4	SLU 7	0.27935	1.01515	0.47669	-0.1179	0.0217	0.0019
78	1495	710	439.4	SLU 8	0.19205	0	0.11023	0	0.0039	0
78	1495	710	439.4	SLU 9	0.35022	0.60908	0.49864	-0.0708	0.0207	0.0012
78	1495	710	439.4	SLU 10	-0.32787	0	-0.78936	0	-0.0299	0
78	1495	710	439.4	SLU 11	-0.16977	0.60881	-0.40096	-0.0707	-0.0132	0.0011
78	1495	710	439.4	SLU 12	-0.06336	0	-0.36801	0	-0.0147	0
78	1495	710	439.4	SLU 13	0.09474	0.60908	0.02039	-0.0707	0.002	0.0012
78	1495	710	439.4	SLU 14	-0.24467	0	-0.57953	0	-0.0208	0
78	1495	710	439.4	SLU 15	0.01883	1.01485	0.06779	-0.1179	0.0071	0.0019
78	1495	710	439.4	SLU 16	0.2833	1.01515	0.48913	-0.1179	0.0223	0.0019
78	1495	710	439.4	SLU 17	0.196	0	0.12266	0	0.0045	0
78	1495	710	439.4	SLU 18	0.35416	0.60908	0.51107	-0.0708	0.0213	0.0012
78	1495	710	439.4	SLU 19	-0.06038	1.01481	-0.12958	-0.1179	-0.0014	0.0019

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
78	1495	710	439.4	SLU 20	0.2041	1.01512	0.29175	-0.1179	0.0138	0.0019
78	1495	710	439.4	SLU 21	0.1168	0	-0.07472	0	-0.004	0
78	1495	710	439.4	SLU 22	0.27492	0.60914	0.31369	-0.0708	0.0127	0.0012
78	1495	710	439.4	SLU 23	-0.40317	0	-0.97432	0	-0.0379	0
78	1495	710	439.4	SLU 24	-0.24508	0.60882	-0.58592	-0.0707	-0.0211	0.0011
78	1495	710	439.4	SLU 25	-0.13862	0	-0.55295	0	-0.0227	0
78	1495	710	439.4	SLU 26	0.01942	0.60898	-0.16457	-0.0707	-0.006	0.0011
78	1495	710	439.4	SLU 27	-0.22017	0	-0.51295	0	-0.0166	0
78	1495	710	439.4	SLU 28	0.04336	1.01495	0.13439	-0.1179	0.0113	0.0019
78	1495	710	439.4	SLU 29	0.30777	1.01517	0.5557	-0.1179	0.0265	0.002
78	1495	710	439.4	SLU 30	0.22047	0	0.18924	0	0.0087	0
78	1495	710	439.4	SLU 31	0.37866	0.60903	0.57766	-0.0708	0.0254	0.0012
78	1495	710	439.4	SLU 32	-0.03591	1.01484	-0.063	-0.1179	0.0027	0.0019
78	1495	710	439.4	SLU 33	0.22857	1.01514	0.35833	-0.1179	0.0179	0.0019
78	1495	710	439.4	SLU 34	0.14127	0	-0.00814	0	0.0001	0
78	1495	710	439.4	SLU 35	0.29943	0.60908	0.38028	-0.0708	0.0168	0.0012
78	1495	710	439.4	SLU 36	-0.37868	0	-0.90773	0	-0.0337	0
78	1495	710	439.4	SLU 37	-0.22057	0.6088	-0.51933	-0.0707	-0.017	0.0011
78	1495	710	439.4	SLU 38	-0.11414	0	-0.48637	0	-0.0186	0
78	1495	710	439.4	SLU 39	0.04396	0.60908	-0.09798	-0.0707	-0.0018	0.0012
78	1495	710	439.4	SLU 40	-0.29547	0	-0.69791	0	-0.0246	0
78	1495	710	439.4	SLU 41	-0.03196	1.01484	-0.05057	-0.1179	0.0033	0.0019
78	1495	710	439.4	SLU 42	0.23251	1.01514	0.37076	-0.1179	0.0185	0.0019
78	1495	710	439.4	SLU 43	0.14521	0	0.00429	0	0.0007	0
78	1495	710	439.4	SLU 44	0.30337	0.60908	0.39271	-0.0708	0.0174	0.0012
78	1495	710	439.4	SLU 45	-0.11121	1.01475	-0.24796	-0.1178	-0.0053	0.0019
78	1495	710	439.4	SLU 46	0.1533	1.0151	0.17338	-0.1179	0.0099	0.0019
78	1495	710	439.4	SLU 47	0.06601	0	-0.19308	0	-0.0079	0
78	1495	710	439.4	SLU 48	0.22414	0.60914	0.19532	-0.0708	0.0089	0.0012
78	1495	710	439.4	SLU 49	-0.45398	0	-1.09269	0	-0.0417	0
78	1495	710	439.4	SLU 50	-0.29588	0.6088	-0.70429	-0.0707	-0.025	0.0011
78	1495	710	439.4	SLU 51	-0.18954	0	-0.67135	0	-0.0265	0
78	1495	710	439.4	SLU 52	-0.03137	0.60896	-0.28294	-0.0707	-0.0098	0.0011
78	1495	710	439.4	SLE RA 1	-0.21956	0	-0.51788	0	-0.0181	0
78	1495	710	439.4	SLE RA 2	-0.04388	0.67655	-0.08632	-0.0786	0.0005	0.0013
78	1495	710	439.4	SLE RA 3	0.13244	0.67676	0.19457	-0.0786	0.0106	0.0013
78	1495	710	439.4	SLE RA 4	0.07424	0	-0.04974	0	-0.0012	0
78	1495	710	439.4	SLE RA 5	0.17968	0.40605	0.2092	-0.0472	0.0099	0.0008
78	1495	710	439.4	SLE RA 6	-0.09675	0.67645	-0.21792	-0.0785	-0.0052	0.0013
78	1495	710	439.4	SLE RA 7	0.0796	0.67671	0.06297	-0.0786	0.0049	0.0013
78	1495	710	439.4	SLE RA 8	0.02144	0	-0.18133	0	-0.007	0
78	1495	710	439.4	SLE RA 9	0.12686	0.40609	0.07761	-0.0472	0.0042	0.0008
78	1495	710	439.4	SLE RA 10	-0.32524	0	-0.78107	0	-0.0295	0
78	1495	710	439.4	SLE RA 11	-0.21984	0.40588	-0.52214	-0.0471	-0.0184	0.0007
78	1495	710	439.4	SLE RA 12	-0.14894	0	-0.50018	0	-0.0194	0
78	1495	710	439.4	SLE RA 13	-0.04349	0.40597	-0.24124	-0.0471	-0.0082	0.0008
78	1495	710	439.4	SLE FR 1	-0.21956	0	-0.51788	0	-0.0181	0
78	1495	710	439.4	SLE FR 2	-0.18443	0.1353	-0.43157	-0.0157	-0.0144	0.0002
78	1495	710	439.4	SLE FR 3	-0.1608	0	-0.42425	0	-0.0147	0
78	1495	710	439.4	SLE FR 4	-0.2407	0	-0.57052	0	-0.0204	0
78	1495	710	439.4	SLE QP 1	-0.21956	0	-0.51788	0	-0.0181	0
78	1495	710	439.4	SLD 1	-0.51156	-0.7438	-0.59953	0.0831	-0.0128	0.0069
78	1495	710	439.4	SLD 2	-0.51156	-0.7438	-0.59953	0.0831	-0.0128	0.0069
78	1495	710	439.4	SLD 3	-0.51156	0.7438	-0.59953	-0.0831	-0.0128	-0.0069
78	1495	710	439.4	SLD 4	-0.51156	0.7438	-0.59953	-0.0831	-0.0128	-0.0069
78	1495	710	439.4	SLD 5	-0.30706	-2.47959	-0.5424	0.2771	-0.0165	0.023
78	1495	710	439.4	SLD 6	-0.30706	-2.47959	-0.5424	0.2771	-0.0165	0.023
78	1495	710	439.4	SLD 7	-0.30706	2.47959	-0.5424	-0.2771	-0.0165	-0.023
78	1495	710	439.4	SLD 8	-0.30706	2.47959	-0.5424	-0.2771	-0.0165	-0.023
78	1495	710	439.4	SLD 9	-0.13183	-2.47964	-0.49341	0.2771	-0.0197	0.023
78	1495	710	439.4	SLD 10	-0.13183	-2.47964	-0.49341	0.2771	-0.0197	0.023
78	1495	710	439.4	SLD 11	-0.13183	2.47964	-0.49341	-0.2771	-0.0197	-0.023
78	1495	710	439.4	SLD 12	-0.13183	2.47964	-0.49341	-0.2771	-0.0197	-0.023
78	1495	710	439.4	SLD 13	0.07256	-0.74391	-0.43623	0.0832	-0.0234	0.0069
78	1495	710	439.4	SLD 14	0.07256	-0.74391	-0.43623	0.0832	-0.0234	0.0069
78	1495	710	439.4	SLD 15	0.07256	0.74391	-0.43623	-0.0832	-0.0234	-0.0069
78	1495	710	439.4	SLD 16	0.07256	0.74391	-0.43623	-0.0832	-0.0234	-0.0069
78	1495	710	439.4	SLV 1	-0.96968	-1.91074	-0.72763	0.2134	-0.0045	0.0178
78	1495	710	439.4	SLV 2	-0.96968	-1.91074	-0.72763	0.2134	-0.0045	0.0178
78	1495	710	439.4	SLV 3	-0.96968	1.91074	-0.72763	-0.2134	-0.0045	-0.0178
78	1495	710	439.4	SLV 4	-0.96968	1.91074	-0.72763	-0.2134	-0.0045	-0.0178
78	1495	710	439.4	SLV 5	-0.44443	-6.36991	-0.58089	0.7119	-0.014	0.0592
78	1495	710	439.4	SLV 6	-0.44443	-6.36991	-0.58089	0.7119	-0.014	0.0592
78	1495	710	439.4	SLV 7	-0.44443	6.36991	-0.58089	-0.7119	-0.014	-0.0592
78	1495	710	439.4	SLV 8	-0.44443	6.36991	-0.58089	-0.7119	-0.014	-0.0592
78	1495	710	439.4	SLV 9	0.00571	-6.37003	-0.45505	0.7119	-0.0222	0.0592
78	1495	710	439.4	SLV 10	0.00571	-6.37003	-0.45505	0.7119	-0.0222	0.0592
78	1495	710	439.4	SLV 11	0.00571	6.37003	-0.45505	-0.7119	-0.0222	-0.0592
78	1495	710	439.4	SLV 12	0.00571	6.37003	-0.45505	-0.7119	-0.0222	-0.0592
78	1495	710	439.4	SLV 13	0.53077	-1.91113	-0.30816	0.2137	-0.0317	0.0178
78	1495	710	439.4	SLV 14	0.53077	-1.91113	-0.30816	0.2137	-0.0317	0.0178
78	1495	710	439.4	SLV 15	0.53077	1.91113	-0.30816	-0.2137	-0.0317	-0.0178
78	1495	710	439.4	SLV 16	0.53077	1.91113	-0.30816	-0.2137	-0.0317	-0.0178
78	1495	710	439.4	SLV FO 1	-0.96968	-1.91074	-0.72763	0.2134	-0.0045	0.0178
78	1495	710	439.4	SLV FO 2	-0.96968	-1.91074	-0.72763	0.2134	-0.0045	0.0178
78	1495	710	439.4	SLV FO 3	-0.96968	1.91074	-0.72763	-0.2134	-0.0045	-0.0178
78	1495	710	439.4	SLV FO 4	-0.96968	1.91074	-0.72763	-0.2134	-0.0045	-0.0178
78	1495	710	439.4	SLV FO 5	-0.44443	-6.36991	-0.58089	0.7119	-0.014	0.0592
78	1495	710	439.4	SLV FO 6	-0.44443	-6.36991	-0.58089	0.7119	-0.014	0.0592
78	1495	710	439.4	SLV FO 7	-0.44443	6.36991	-0.58089	-0.7119	-0.014	-0.0592
78	1495	710	439.4	SLV FO 8	-0.44443	6.36991	-0.58089	-0.7119	-0.014	-0.0592
78	1495	710	439.4	SLV FO 9	0.00571	-6.37003	-0.45505	0.7119	-0.0222	0.0592
78	1495	710	439.4	SLV FO 10	0.00571	-6.37003	-0.45505	0.7119	-0.0222	0.0592
78	1495	710	439.4	SLV FO 11	0.00571	6.37003	-0.45505	-0.7119	-0.0222	-0.0592
78	1495	710	439.4	SLV FO 12	0.00571	6.37003	-0.45505	-0.7119	-0.0222	-0.0592
78	1495	710	439.4	SLV FO 13	0.53077	-1.91113	-0.30816	0.2137	-0.0317	0.0178
78	1495	710	439.4	SLV FO 14	0.53077	-1.91113	-0.30816	0.2137	-0.0317	0.0178
78	1495	710	439.4	SLV FO 15	0.53077	1.91113	-0.30816	-0.2137	-0.0317	-0.0178
78	1495	710	439.4	SLV FO 16	0.53077	1.91113	-0.30816	-0.2137	-0.0317	-0.0178
79	1495	1210	439.4	SLU 1	-0.15661	-0.00003	-0.34537	0	-0.0103	0
79	1495	1210	439.4	SLU 2	0.06226	1.01422	-0.00062	-0.1178	0.0018	0.0018
79	1495	1210	439.4	SLU 3	0.26894	1.01426	0.23071	-0.1177	0.0082	0.0019
79	1495	1210	439.4	SLU 4	0.1878	-0.00026	0.04017	0	0.0003	0

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
79	1495	1210	439.4	SLU 5	0.31913	0.60832	0.24702	-0.0706	0.0075	0.0011
79	1495	1210	439.4	SLU 6	0.00443	1.01416	-0.10383	-0.1178	-0.0021	0.0018
79	1495	1210	439.4	SLU 7	0.21111	1.01428	0.1275	-0.1178	0.0042	0.0018
79	1495	1210	439.4	SLU 8	0.12997	-0.00021	-0.06304	0	-0.0037	0
79	1495	1210	439.4	SLU 9	0.2613	0.60841	0.14381	-0.0706	0.0036	0.0011
79	1495	1210	439.4	SLU 10	-0.27221	-0.00013	-0.55177	0	-0.0181	0
79	1495	1210	439.4	SLU 11	-0.14093	0.60848	-0.34493	-0.0707	-0.0108	0.0011
79	1495	1210	439.4	SLU 12	-0.06563	-0.00004	-0.32046	0	-0.0118	0
79	1495	1210	439.4	SLU 13	0.06572	0.60858	-0.11361	-0.0707	-0.0045	0.0011
79	1495	1210	439.4	SLU 14	-0.21163	-0.00008	-0.44215	0	-0.0139	0
79	1495	1210	439.4	SLU 15	0.00722	1.01416	-0.09741	-0.1178	-0.0018	0.0018
79	1495	1210	439.4	SLU 16	0.2139	1.01428	0.13392	-0.1178	0.0045	0.0018
79	1495	1210	439.4	SLU 17	0.13276	-0.00021	-0.05662	0	-0.0034	0
79	1495	1210	439.4	SLU 18	0.26409	0.60841	0.15023	-0.0706	0.0039	0.0011
79	1495	1210	439.4	SLU 19	-0.05061	1.01417	-0.20062	-0.1178	-0.0057	0.0018
79	1495	1210	439.4	SLU 20	0.15607	1.0143	0.03071	-0.1178	0.0006	0.0018
79	1495	1210	439.4	SLU 21	0.07494	-0.00016	-0.15983	0	-0.0073	0
79	1495	1210	439.4	SLU 22	0.2063	0.60852	0.04703	-0.0706	0	0.0011
79	1495	1210	439.4	SLU 23	-0.32722	-0.00018	-0.64855	0	-0.0218	0
79	1495	1210	439.4	SLU 24	-0.19594	0.60854	-0.44171	-0.0707	-0.0145	0.0011
79	1495	1210	439.4	SLU 25	-0.12066	0.00001	-0.41725	0	-0.0154	0
79	1495	1210	439.4	SLU 26	0.01068	0.60853	-0.2104	-0.0707	-0.0082	0.0011
79	1495	1210	439.4	SLU 27	-0.2036	-0.00004	-0.44898	0	-0.0134	0
79	1495	1210	439.4	SLU 28	0.01526	1.01422	-0.10423	-0.1178	-0.0013	0.0018
79	1495	1210	439.4	SLU 29	0.22194	1.01427	0.12709	-0.1177	0.0051	0.0018
79	1495	1210	439.4	SLU 30	0.1408	-0.00025	-0.06345	0	-0.0028	0
79	1495	1210	439.4	SLU 31	0.27213	0.60832	0.1434	-0.0706	0.0044	0.0011
79	1495	1210	439.4	SLU 32	-0.04257	1.01416	-0.20744	-0.1178	-0.0052	0.0018
79	1495	1210	439.4	SLU 33	0.16411	1.01429	0.02389	-0.1178	0.0012	0.0018
79	1495	1210	439.4	SLU 34	0.08298	-0.0002	-0.16665	0	-0.0067	0
79	1495	1210	439.4	SLU 35	0.21431	0.60842	0.0402	-0.0706	0.0005	0.0011
79	1495	1210	439.4	SLU 36	-0.31919	-0.00014	-0.65538	0	-0.0212	0
79	1495	1210	439.4	SLU 37	-0.18792	0.60848	-0.44854	-0.0707	-0.0139	0.0011
79	1495	1210	439.4	SLU 38	-0.11263	-0.00003	-0.42407	0	-0.0149	0
79	1495	1210	439.4	SLU 39	0.01872	0.60858	-0.21722	-0.0707	-0.0076	0.0011
79	1495	1210	439.4	SLU 40	-0.25861	-0.00009	-0.54576	0	-0.017	0
79	1495	1210	439.4	SLU 41	-0.03978	1.01416	-0.20102	-0.1178	-0.0049	0.0018
79	1495	1210	439.4	SLU 42	0.1669	1.01429	0.03031	-0.1178	0.0014	0.0018
79	1495	1210	439.4	SLU 43	0.08577	-0.0002	-0.16023	0	-0.0065	0
79	1495	1210	439.4	SLU 44	0.21709	0.60841	0.04661	-0.0706	0.0008	0.0011
79	1495	1210	439.4	SLU 45	-0.0976	1.01412	-0.30423	-0.1178	-0.0088	0.0018
79	1495	1210	439.4	SLU 46	0.10907	1.0143	-0.0729	-0.1178	-0.0025	0.0018
79	1495	1210	439.4	SLU 47	0.02794	-0.00015	-0.26344	0	-0.0104	0
79	1495	1210	439.4	SLU 48	0.1593	0.60852	-0.05658	-0.0706	-0.0031	0.0011
79	1495	1210	439.4	SLU 49	-0.3742	-0.00019	-0.75216	0	-0.0249	0
79	1495	1210	439.4	SLU 50	-0.24294	0.60854	-0.54532	-0.0707	-0.0176	0.0011
79	1495	1210	439.4	SLU 51	-0.16759	-0.00001	-0.52085	0	-0.0185	0
79	1495	1210	439.4	SLU 52	-0.03632	0.60852	-0.31401	-0.0707	-0.0112	0.0011
79	1495	1210	439.4	SLE RA 1	-0.19329	-0.00006	-0.40989	0	-0.0127	0
79	1495	1210	439.4	SLE RA 2	-0.04741	0.6761	-0.18007	-0.0786	-0.0046	0.0012
79	1495	1210	439.4	SLE RA 3	0.09038	0.67619	-0.02585	-0.0785	-0.0004	0.0012
79	1495	1210	439.4	SLE RA 4	0.03629	-0.00013	-0.15287	0	-0.0057	0
79	1495	1210	439.4	SLE RA 5	0.12384	0.40561	-0.01497	-0.0471	-0.0008	0.0008
79	1495	1210	439.4	SLE RA 6	-0.08595	0.67604	-0.24887	-0.0785	-0.0072	0.0012
79	1495	1210	439.4	SLE RA 7	0.05183	0.67618	-0.09465	-0.0785	-0.003	0.0012
79	1495	1210	439.4	SLE RA 8	-0.00226	-0.0001	-0.22168	0	-0.0083	0
79	1495	1210	439.4	SLE RA 9	0.08531	0.40568	-0.08377	-0.0471	-0.0034	0.0007
79	1495	1210	439.4	SLE RA 10	-0.27035	-0.00013	-0.54749	0	-0.0179	0
79	1495	1210	439.4	SLE RA 11	-0.18284	0.4057	-0.4096	-0.0471	-0.0131	0.0007
79	1495	1210	439.4	SLE RA 12	-0.13261	-0.00001	-0.39328	0	-0.0137	0
79	1495	1210	439.4	SLE RA 13	-0.0451	0.40568	-0.25539	-0.0471	-0.0089	0.0007
79	1495	1210	439.4	SLE FR 1	-0.19329	-0.00006	-0.40989	0	-0.0127	0
79	1495	1210	439.4	SLE FR 2	-0.16412	0.13526	-0.36392	-0.0157	-0.0111	0.0002
79	1495	1210	439.4	SLE FR 3	-0.14737	-0.00003	-0.35848	0	-0.0113	0
79	1495	1210	439.4	SLE FR 4	-0.2087	-0.00008	-0.43741	0	-0.0138	0
79	1495	1210	439.4	SLE QP 1	-0.19329	-0.00006	-0.40989	0	-0.0127	0
79	1495	1210	439.4	SLD 1	-0.50478	-0.74455	-0.49339	0.0832	-0.0068	0.0069
79	1495	1210	439.4	SLD 2	-0.50478	-0.74455	-0.49339	0.0832	-0.0068	0.0069
79	1495	1210	439.4	SLD 3	-0.41496	0.74344	-0.47209	-0.0831	-0.0087	-0.007
79	1495	1210	439.4	SLD 4	-0.41496	0.74344	-0.47209	-0.0831	-0.0087	-0.007
79	1495	1210	439.4	SLD 5	-0.42304	-2.48156	-0.46729	0.2772	-0.008	0.0229
79	1495	1210	439.4	SLD 6	-0.42304	-2.48156	-0.46729	0.2772	-0.008	0.0229
79	1495	1210	439.4	SLD 7	-0.1236	2.47785	-0.39628	-0.2769	-0.0144	-0.0232
79	1495	1210	439.4	SLD 8	-0.1236	2.47785	-0.39628	-0.2769	-0.0144	-0.0232
79	1495	1210	439.4	SLD 9	-0.2631	-2.48153	-0.42358	0.2772	-0.011	0.0229
79	1495	1210	439.4	SLD 10	-0.2631	-2.48153	-0.42358	0.2772	-0.011	0.0229
79	1495	1210	439.4	SLD 11	0.03633	2.47782	-0.35258	-0.2769	-0.0174	-0.0232
79	1495	1210	439.4	SLD 12	0.03633	2.47782	-0.35258	-0.2769	-0.0174	-0.0232
79	1495	1210	439.4	SLD 13	0.02834	-0.7444	-0.34771	0.0832	-0.0167	0.0069
79	1495	1210	439.4	SLD 14	0.02834	-0.7444	-0.34771	0.0832	-0.0167	0.0069
79	1495	1210	439.4	SLD 15	0.11811	0.74329	-0.32643	-0.0831	-0.0186	-0.007
79	1495	1210	439.4	SLD 16	0.11811	0.74329	-0.32643	-0.0831	-0.0186	-0.007
79	1495	1210	439.4	SLV 1	-0.99349	-1.91257	-0.6244	0.2137	0.0025	0.0176
79	1495	1210	439.4	SLV 2	-0.99349	-1.91257	-0.6244	0.2137	0.0025	0.0176
79	1495	1210	439.4	SLV 3	-0.7627	1.90971	-0.56967	-0.2135	-0.0025	-0.0179
79	1495	1210	439.4	SLV 4	-0.7627	1.90971	-0.56967	-0.2135	-0.0025	-0.0179
79	1495	1210	439.4	SLV 5	-0.78349	-6.37487	-0.55734	0.7121	-0.0006	0.0588
79	1495	1210	439.4	SLV 6	-0.78349	-6.37487	-0.55734	0.7121	-0.0006	0.0588
79	1495	1210	439.4	SLV 7	-0.01416	6.36533	-0.37491	-0.7114	-0.0172	-0.0596
79	1495	1210	439.4	SLV 8	-0.01416	6.36533	-0.37491	-0.7114	-0.0172	-0.0596
79	1495	1210	439.4	SLV 9	-0.37263	-6.37479	-0.44507	0.7121	-0.0083	0.0588
79	1495	1210	439.4	SLV 10	-0.37263	-6.37479	-0.44507	0.7121	-0.0083	0.0588
79	1495	1210	439.4	SLV 11	0.39668	6.36525	-0.26265	-0.7113	-0.0248	-0.0596
79	1495	1210	439.4	SLV 12	0.39668	6.36525	-0.26265	-0.7113	-0.0248	-0.0596
79	1495	1210	439.4	SLV 13	0.37604	-1.91231	-0.25016	0.2136	-0.023	0.0177
79	1495	1210	439.4	SLV 14	0.37604	-1.91231	-0.25016	0.2136	-0.023	0.0177
79	1495	1210	439.4	SLV 15	0.60676	1.90945	-0.19546	-0.2134	-0.0279	-0.0179
79	1495	1210	439.4	SLV 16	0.60676	1.90945	-0.19546	-0.2134	-0.0279	-0.0179
79	1495	1210	439.4	SLV FO 1	-0.99349	-1.91257	-0.6244	0.2137	0.0025	0.0176
79	1495	1210	439.4	SLV FO 2	-0.99349	-1.91257	-0.6244	0.2137	0.0025	0.0176

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
79	1495	1210	439.4	SLV FO 3	-0.7627	1.90971	-0.56967	-0.2135	-0.0025	-0.0179
79	1495	1210	439.4	SLV FO 4	-0.7627	1.90971	-0.56967	-0.2135	-0.0025	-0.0179
79	1495	1210	439.4	SLV FO 5	-0.78349	-6.37487	-0.55734	0.7121	-0.0006	0.0588
79	1495	1210	439.4	SLV FO 6	-0.78349	-6.37487	-0.55734	0.7121	-0.0006	0.0588
79	1495	1210	439.4	SLV FO 7	-0.01416	6.36533	-0.37491	-0.7114	-0.0172	-0.0596
79	1495	1210	439.4	SLV FO 8	-0.01416	6.36533	-0.37491	-0.7114	-0.0172	-0.0596
79	1495	1210	439.4	SLV FO 9	-0.37263	-6.37479	-0.44507	0.7121	-0.0083	0.0588
79	1495	1210	439.4	SLV FO 10	-0.37263	-6.37479	-0.44507	0.7121	-0.0083	0.0588
79	1495	1210	439.4	SLV FO 11	0.39668	6.36525	-0.26265	-0.7113	-0.0248	-0.0596
79	1495	1210	439.4	SLV FO 12	0.39668	6.36525	-0.26265	-0.7113	-0.0248	-0.0596
79	1495	1210	439.4	SLV FO 13	0.37604	-1.91231	-0.25016	0.2136	-0.023	0.0177
79	1495	1210	439.4	SLV FO 14	0.37604	-1.91231	-0.25016	0.2136	-0.023	0.0177
79	1495	1210	439.4	SLV FO 15	0.60676	1.90945	-0.19546	-0.2134	-0.0279	-0.0179
79	1495	1210	439.4	SLV FO 16	0.60676	1.90945	-0.19546	-0.2134	-0.0279	-0.0179
80	1325	210	460.8	SLU 1	-0.15752	0.00003	-0.35401	0	0.0047	0
80	1325	210	460.8	SLU 2	0.01032	1.04773	-0.00736	-0.0901	0.0003	0.0025
80	1325	210	460.8	SLU 3	0.2168	1.04779	0.22424	-0.0901	-0.0056	0.0025
80	1325	210	460.8	SLU 4	0.18676	0.00026	0.03199	0	-0.0052	0
80	1325	210	460.8	SLU 5	0.28736	0.62864	0.23997	-0.054	-0.0078	0.0015
80	1325	210	460.8	SLU 6	-0.04783	1.04771	-0.11418	-0.0902	0.0019	0.0025
80	1325	210	460.8	SLU 7	0.1586	1.04779	0.11741	-0.0901	-0.004	0.0025
80	1325	210	460.8	SLU 8	0.12855	0.00021	-0.07483	0	-0.0036	0
80	1325	210	460.8	SLU 9	0.22918	0.62866	0.13315	-0.0541	-0.0062	0.0015
80	1325	210	460.8	SLU 10	-0.27389	0.00013	-0.56766	0	0.0078	0
80	1325	210	460.8	SLU 11	-0.17313	0.62865	-0.35965	-0.0541	0.0052	0.0015
80	1325	210	460.8	SLU 12	-0.06739	0.00004	-0.33606	0	0.0019	0
80	1325	210	460.8	SLU 13	0.03329	0.62869	-0.12807	-0.0541	-0.0007	0.0015
80	1325	210	460.8	SLU 14	-0.21289	0.00008	-0.45407	0	0.0062	0
80	1325	210	460.8	SLU 15	-0.04501	1.04771	-0.10741	-0.0902	0.0018	0.0025
80	1325	210	460.8	SLU 16	0.16143	1.04779	0.12418	-0.0901	-0.0041	0.0025
80	1325	210	460.8	SLU 17	0.13137	0.00021	-0.06806	0	-0.0037	0
80	1325	210	460.8	SLU 18	0.23201	0.62867	0.13992	-0.054	-0.0063	0.0015
80	1325	210	460.8	SLU 19	-0.1032	1.04773	-0.21423	-0.0902	0.0034	0.0025
80	1325	210	460.8	SLU 20	0.10323	1.04778	0.01735	-0.0901	-0.0025	0.0025
80	1325	210	460.8	SLU 21	0.07316	0.00016	-0.17489	0	-0.0021	0
80	1325	210	460.8	SLU 22	0.1738	0.6287	0.0331	-0.0541	-0.0047	0.0015
80	1325	210	460.8	SLU 23	-0.32926	0.00018	-0.66771	0	0.0093	0
80	1325	210	460.8	SLU 24	-0.22849	0.6287	-0.45971	-0.0542	0.0067	0.0015
80	1325	210	460.8	SLU 25	-0.12277	-0.00001	-0.43612	0	0.0034	0
80	1325	210	460.8	SLU 26	-0.02203	0.62866	-0.22812	-0.0541	0.0008	0.0015
80	1325	210	460.8	SLU 27	-0.20478	0.00004	-0.46021	0	0.0061	0
80	1325	210	460.8	SLU 28	-0.03695	1.04774	-0.11356	-0.0902	0.0017	0.0025
80	1325	210	460.8	SLU 29	0.16954	1.0478	0.11803	-0.0901	-0.0042	0.0025
80	1325	210	460.8	SLU 30	0.13949	0.00025	-0.07421	0	-0.0038	0
80	1325	210	460.8	SLU 31	0.24009	0.62862	0.13377	-0.054	-0.0064	0.0015
80	1325	210	460.8	SLU 32	-0.09509	1.04771	-0.22038	-0.0902	0.0033	0.0025
80	1325	210	460.8	SLU 33	0.11134	1.04779	0.01121	-0.0901	-0.0026	0.0025
80	1325	210	460.8	SLU 34	0.08128	0.0002	-0.18104	0	-0.0022	0
80	1325	210	460.8	SLU 35	0.18191	0.62866	0.02695	-0.0541	-0.0048	0.0015
80	1325	210	460.8	SLU 36	-0.32115	0.00014	-0.67386	0	0.0092	0
80	1325	210	460.8	SLU 37	-0.22039	0.62865	-0.46586	-0.0541	0.0066	0.0015
80	1325	210	460.8	SLU 38	-0.11466	0.00003	-0.44226	0	0.0033	0
80	1325	210	460.8	SLU 39	-0.01397	0.62869	-0.23427	-0.0541	0.0007	0.0015
80	1325	210	460.8	SLU 40	-0.26014	0.00009	-0.56027	0	0.0076	0
80	1325	210	460.8	SLU 41	-0.09227	1.04771	-0.21361	-0.0902	0.0032	0.0025
80	1325	210	460.8	SLU 42	0.11416	1.04779	0.01798	-0.0901	-0.0027	0.0025
80	1325	210	460.8	SLU 43	0.0841	0.0002	-0.17427	0	-0.0023	0
80	1325	210	460.8	SLU 44	0.18474	0.62866	0.03372	-0.0541	-0.0049	0.0015
80	1325	210	460.8	SLU 45	-0.15043	1.04769	-0.32043	-0.0901	0.0048	0.0025
80	1325	210	460.8	SLU 46	0.05597	1.04778	-0.08885	-0.0901	-0.0011	0.0025
80	1325	210	460.8	SLU 47	0.02589	0.00015	-0.28109	0	-0.0007	0
80	1325	210	460.8	SLU 48	0.12654	0.62869	-0.07311	-0.0541	-0.0033	0.0015
80	1325	210	460.8	SLU 49	-0.37651	0.00019	-0.77392	0	0.0107	0
80	1325	210	460.8	SLU 50	-0.27575	0.62871	-0.56591	-0.0542	0.0081	0.0015
80	1325	210	460.8	SLU 51	-0.16998	0.00001	-0.54231	0	0.0048	0
80	1325	210	460.8	SLU 52	-0.06928	0.62866	-0.33432	-0.0541	0.0022	0.0015
80	1325	210	460.8	SLE RA 1	-0.19443	0.00006	-0.42072	0	0.0057	0
80	1325	210	460.8	SLE RA 2	-0.08251	0.69848	-0.18961	-0.0601	0.0028	0.0016
80	1325	210	460.8	SLE RA 3	0.0551	0.69853	-0.03522	-0.0601	-0.0012	0.0017
80	1325	210	460.8	SLE RA 4	0.03506	0.00013	-0.16338	0	-0.0009	0
80	1325	210	460.8	SLE RA 5	0.10215	0.4191	-0.02472	-0.036	-0.0026	0.001
80	1325	210	460.8	SLE RA 6	-0.12127	0.69842	-0.26082	-0.0601	0.0038	0.0016
80	1325	210	460.8	SLE RA 7	0.01633	0.69852	-0.10643	-0.0601	-0.0001	0.0016
80	1325	210	460.8	SLE RA 8	-0.00375	0.0001	-0.2346	0	0.0001	0
80	1325	210	460.8	SLE RA 9	0.06335	0.41912	-0.09594	-0.0361	-0.0016	0.001
80	1325	210	460.8	SLE RA 10	-0.27201	0.00013	-0.56315	0	0.0078	0
80	1325	210	460.8	SLE RA 11	-0.20484	0.41916	-0.42448	-0.0361	0.006	0.001
80	1325	210	460.8	SLE RA 12	-0.13432	0.00001	-0.40874	0	0.0038	0
80	1325	210	460.8	SLE RA 13	-0.06719	0.41911	-0.27008	-0.0361	0.0021	0.001
80	1325	210	460.8	SLE FR 1	-0.19443	0.00006	-0.42072	0	0.0057	0
80	1325	210	460.8	SLE FR 2	-0.17204	0.13976	-0.37449	-0.012	0.0051	0.0003
80	1325	210	460.8	SLE FR 3	-0.14854	0.00003	-0.36925	0	0.0043	0
80	1325	210	460.8	SLE FR 4	-0.20995	0.00008	-0.4492	0	0.0061	0
80	1325	210	460.8	SLE QP 1	-0.19443	0.00006	-0.42072	0	0.0057	0
80	1325	210	460.8	SLD 1	-0.41391	-0.79104	-0.4645	0.0826	0.013	0.0043
80	1325	210	460.8	SLD 2	-0.41391	-0.79104	-0.4645	0.0826	0.013	0.0043
80	1325	210	460.8	SLD 3	-0.50268	0.79192	-0.47763	-0.0827	0.0162	-0.0042
80	1325	210	460.8	SLD 4	-0.50268	0.79192	-0.47763	-0.0827	0.0162	-0.0042
80	1325	210	460.8	SLD 5	-0.12566	-2.63648	-0.41397	0.2752	0.0031	0.0142
80	1325	210	460.8	SLD 6	-0.12566	-2.63648	-0.41397	0.2752	0.0031	0.0142
80	1325	210	460.8	SLD 7	-0.4216	2.6394	-0.45775	-0.2754	0.0136	-0.014
80	1325	210	460.8	SLD 8	-0.4216	2.6394	-0.45775	-0.2754	0.0136	-0.014
80	1325	210	460.8	SLD 9	0.03264	-2.63646	-0.38377	0.2752	-0.0022	0.0142
80	1325	210	460.8	SLD 10	0.03264	-2.63646	-0.38377	0.2752	-0.0022	0.0142
80	1325	210	460.8	SLD 11	-0.26329	2.63938	-0.42754	-0.2754	0.0082	-0.014
80	1325	210	460.8	SLD 12	-0.26329	2.63938	-0.42754	-0.2754	0.0082	-0.014
80	1325	210	460.8	SLD 13	0.11373	-0.79093	-0.36383	0.0826	-0.0048	0.0043
80	1325	210	460.8	SLD 14	0.11373	-0.79093	-0.36383	0.0826	-0.0048	0.0043
80	1325	210	460.8	SLD 15	0.02501	0.79181	-0.37695	-0.0826	-0.0017	-0.0042
80	1325	210	460.8	SLD 16	0.02501	0.79181	-0.37695	-0.0826	-0.0017	-0.0042
80	1325	210	460.8	SLV 1	-0.75821	-2.03192	-0.53318	0.2122	0.0246	0.011
80	1325	210	460.8	SLV 2	-0.75821	-2.03192	-0.53318	0.2122	0.0246	0.011
80	1325	210	460.8	SLV 3	-0.98629	2.03417	-0.56693	-0.2123	0.0326	-0.0107

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
80	1325	210	460.8	SLV 4	-0.98629	2.03417	-0.56693	-0.2123	0.0326	-0.0107
80	1325	210	460.8	SLV 5	-0.01767	-6.77275	-0.40338	0.707	-0.0009	0.0366
80	1325	210	460.8	SLV 6	-0.01767	-6.77275	-0.40338	0.707	-0.0009	0.0366
80	1325	210	460.8	SLV 7	-0.77799	6.78026	-0.51584	-0.7074	0.026	-0.0359
80	1325	210	460.8	SLV 8	-0.77799	6.78026	-0.51584	-0.7074	0.026	-0.0359
80	1325	210	460.8	SLV 9	0.38898	-6.77271	-0.3258	0.707	-0.0146	0.0366
80	1325	210	460.8	SLV 10	0.38898	-6.77271	-0.3258	0.707	-0.0146	0.0366
80	1325	210	460.8	SLV 11	-0.37131	6.78021	-0.43825	-0.7073	0.0122	-0.0359
80	1325	210	460.8	SLV 12	-0.37131	6.78021	-0.43825	-0.7073	0.0122	-0.0359
80	1325	210	460.8	SLV 13	0.59731	-2.03176	-0.27458	0.212	-0.0213	0.011
80	1325	210	460.8	SLV 14	0.59731	-2.03176	-0.27458	0.212	-0.0213	0.011
80	1325	210	460.8	SLV 15	0.36929	2.03401	-0.3083	-0.2122	-0.0133	-0.0108
80	1325	210	460.8	SLV 16	0.36929	2.03401	-0.3083	-0.2122	-0.0133	-0.0108
80	1325	210	460.8	SLV FO 1	-0.75821	-2.03192	-0.53318	0.2122	0.0246	0.011
80	1325	210	460.8	SLV FO 2	-0.75821	-2.03192	-0.53318	0.2122	0.0246	0.011
80	1325	210	460.8	SLV FO 3	-0.98629	2.03417	-0.56693	-0.2123	0.0326	-0.0107
80	1325	210	460.8	SLV FO 4	-0.98629	2.03417	-0.56693	-0.2123	0.0326	-0.0107
80	1325	210	460.8	SLV FO 5	-0.01767	-6.77275	-0.40338	0.707	-0.0009	0.0366
80	1325	210	460.8	SLV FO 6	-0.01767	-6.77275	-0.40338	0.707	-0.0009	0.0366
80	1325	210	460.8	SLV FO 7	-0.77799	6.78026	-0.51584	-0.7074	0.026	-0.0359
80	1325	210	460.8	SLV FO 8	-0.77799	6.78026	-0.51584	-0.7074	0.026	-0.0359
80	1325	210	460.8	SLV FO 9	0.38898	-6.77271	-0.3258	0.707	-0.0146	0.0366
80	1325	210	460.8	SLV FO 10	0.38898	-6.77271	-0.3258	0.707	-0.0146	0.0366
80	1325	210	460.8	SLV FO 11	-0.37131	6.78021	-0.43825	-0.7073	0.0122	-0.0359
80	1325	210	460.8	SLV FO 12	-0.37131	6.78021	-0.43825	-0.7073	0.0122	-0.0359
80	1325	210	460.8	SLV FO 13	0.59731	-2.03176	-0.27458	0.212	-0.0213	0.011
80	1325	210	460.8	SLV FO 14	0.59731	-2.03176	-0.27458	0.212	-0.0213	0.011
80	1325	210	460.8	SLV FO 15	0.36929	2.03401	-0.3083	-0.2122	-0.0133	-0.0108
80	1325	210	460.8	SLV FO 16	0.36929	2.03401	-0.3083	-0.2122	-0.0133	-0.0108
81	1325	710	460.8	SLU 1	-0.17069	0	-0.40687	0	0.0048	0
81	1325	710	460.8	SLU 2	0.09654	1.04719	0.27399	-0.1122	-0.0016	0.0052
81	1325	710	460.8	SLU 3	0.36218	1.04731	0.70752	-0.1122	-0.0088	0.0053
81	1325	710	460.8	SLU 4	0.27198	0	0.31568	0	-0.0071	0
81	1325	710	460.8	SLU 5	0.4324	0.62821	0.72421	-0.0673	-0.011	0.0032
81	1325	710	460.8	SLU 6	0.01612	1.04712	0.06618	-0.1122	0.0003	0.0052
81	1325	710	460.8	SLU 7	0.28182	1.0473	0.49973	-0.1122	-0.0069	0.0052
81	1325	710	460.8	SLU 8	0.19162	0	0.10789	0	-0.0052	0
81	1325	710	460.8	SLU 9	0.35201	0.62828	0.51641	-0.0673	-0.0091	0.0032
81	1325	710	460.8	SLU 10	-0.33151	0	-0.82248	0	0.0087	0
81	1325	710	460.8	SLU 11	-0.17118	0.62821	-0.41397	-0.0673	0.0048	0.0031
81	1325	710	460.8	SLU 12	-0.06578	0	-0.38892	0	0.0015	0
81	1325	710	460.8	SLU 13	0.09456	0.6284	0.01959	-0.0673	-0.0024	0.0031
81	1325	710	460.8	SLU 14	-0.24706	0	-0.60141	0	0.0067	0
81	1325	710	460.8	SLU 15	0.02016	1.04712	0.07945	-0.1122	0.0002	0.0052
81	1325	710	460.8	SLU 16	0.28586	1.0473	0.513	-0.1122	-0.0069	0.0052
81	1325	710	460.8	SLU 17	0.19566	0	0.12116	0	-0.0053	0
81	1325	710	460.8	SLU 18	0.35605	0.62828	0.52968	-0.0673	-0.0091	0.0032
81	1325	710	460.8	SLU 19	-0.06021	1.04709	-0.12835	-0.1122	0.0021	0.0052
81	1325	710	460.8	SLU 20	0.2055	1.0473	0.3052	-0.1122	-0.005	0.0052
81	1325	710	460.8	SLU 21	0.1153	0	-0.08664	0	-0.0033	0
81	1325	710	460.8	SLU 22	0.27566	0.62837	0.32188	-0.0674	-0.0072	0.0032
81	1325	710	460.8	SLU 23	-0.40788	0	-1.01702	0	0.0105	0
81	1325	710	460.8	SLU 24	-0.24755	0.62822	-0.6085	-0.0672	0.0066	0.0031
81	1325	710	460.8	SLU 25	-0.1421	0	-0.58345	0	0.0033	0
81	1325	710	460.8	SLU 26	0.01818	0.62835	-0.17494	-0.0673	-0.0005	0.0031
81	1325	710	460.8	SLU 27	-0.2219	0	-0.52893	0	0.0063	0
81	1325	710	460.8	SLU 28	0.04535	1.04719	0.15193	-0.1122	-0.0002	0.0052
81	1325	710	460.8	SLU 29	0.31099	1.04731	0.58547	-0.1122	-0.0073	0.0053
81	1325	710	460.8	SLU 30	0.22079	0	0.19363	0	-0.0056	0
81	1325	710	460.8	SLU 31	0.38122	0.6282	0.60216	-0.0673	-0.0095	0.0032
81	1325	710	460.8	SLU 32	-0.03507	1.04711	-0.05587	-0.1122	0.0017	0.0052
81	1325	710	460.8	SLU 33	0.23064	1.04731	0.37767	-0.1122	-0.0054	0.0052
81	1325	710	460.8	SLU 34	0.14043	0	-0.01417	0	-0.0037	0
81	1325	710	460.8	SLU 35	0.30083	0.62829	0.39436	-0.0673	-0.0076	0.0032
81	1325	710	460.8	SLU 36	-0.38272	0	-0.94455	0	0.0101	0
81	1325	710	460.8	SLU 37	-0.22238	0.62821	-0.53603	-0.0673	0.0062	0.0031
81	1325	710	460.8	SLU 38	-0.11695	0	-0.51098	0	0.0029	0
81	1325	710	460.8	SLU 39	0.04337	0.6284	-0.10247	-0.0673	-0.0009	0.0031
81	1325	710	460.8	SLU 40	-0.29827	0	-0.72347	0	0.0081	0
81	1325	710	460.8	SLU 41	-0.03103	1.04711	-0.0426	-0.1122	0.0017	0.0052
81	1325	710	460.8	SLU 42	0.23467	1.04731	0.39094	-0.1122	-0.0055	0.0052
81	1325	710	460.8	SLU 43	0.14447	0	-0.0009	0	-0.0038	0
81	1325	710	460.8	SLU 44	0.30487	0.62829	0.40763	-0.0673	-0.0077	0.0032
81	1325	710	460.8	SLU 45	-0.11144	1.04704	-0.25041	-0.1121	0.0036	0.0052
81	1325	710	460.8	SLU 46	0.1543	1.0473	0.18314	-0.1122	-0.0036	0.0052
81	1325	710	460.8	SLU 47	0.06411	0	-0.20869	0	-0.0019	0
81	1325	710	460.8	SLU 48	0.22447	0.62837	0.19982	-0.0674	-0.0058	0.0032
81	1325	710	460.8	SLU 49	-0.45909	0	-1.13908	0	0.012	0
81	1325	710	460.8	SLU 50	-0.29875	0.62822	-0.73056	-0.0672	0.0081	0.0031
81	1325	710	460.8	SLU 51	-0.19342	0	-0.70553	0	0.0048	0
81	1325	710	460.8	SLU 52	-0.03302	0.62834	-0.297	-0.0673	0.0009	0.0031
81	1325	710	460.8	SLE RA 1	-0.22161	0	-0.53656	0	0.0061	0
81	1325	710	460.8	SLE RA 2	-0.04344	0.69807	-0.08265	-0.0748	0.0018	0.0035
81	1325	710	460.8	SLE RA 3	0.1337	0.6982	0.20638	-0.0748	-0.003	0.0035
81	1325	710	460.8	SLE RA 4	0.07357	0	-0.05485	0	-0.0019	0
81	1325	710	460.8	SLE RA 5	0.1805	0.41886	0.2175	-0.0449	-0.0045	0.0021
81	1325	710	460.8	SLE RA 6	-0.09707	0.69799	-0.22119	-0.0747	0.003	0.0034
81	1325	710	460.8	SLE RA 7	0.0801	0.6982	0.06785	-0.0748	-0.0017	0.0035
81	1325	710	460.8	SLE RA 8	0.01999	0	-0.19338	0	-0.0006	0
81	1325	710	460.8	SLE RA 9	0.1269	0.41891	0.07897	-0.0449	-0.0032	0.0021
81	1325	710	460.8	SLE RA 10	-0.32882	0	-0.81364	0	0.0086	0
81	1325	710	460.8	SLE RA 11	-0.22193	0.41882	-0.54129	-0.0448	0.006	0.0021
81	1325	710	460.8	SLE RA 12	-0.1517	0	-0.5246	0	0.0038	0
81	1325	710	460.8	SLE RA 13	-0.04476	0.41889	-0.25225	-0.0449	0.0013	0.0021
81	1325	710	460.8	SLE FR 1	-0.22161	0	-0.53656	0	0.0061	0
81	1325	710	460.8	SLE FR 2	-0.18598	0.13963	-0.44578	-0.0149	0.0052	0.0007
81	1325	710	460.8	SLE FR 3	-0.16257	0	-0.44021	0	0.0045	0
81	1325	710	460.8	SLE FR 4	-0.24305	0	-0.59198	0	0.0066	0
81	1325	710	460.8	SLE QP 1	-0.22161	0	-0.53656	0	0.0061	0
81	1325	710	460.8	SLD 1	-0.51065	-0.79128	-0.59382	0.0825	0.0158	0.0042

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
81	1325	710	460.8	SLD 2	-0.51065	-0.79128	-0.59382	0.0825	0.0158	0.0042
81	1325	710	460.8	SLD 3	-0.51065	0.79128	-0.59382	-0.0825	0.0158	-0.0042
81	1325	710	460.8	SLD 4	-0.51065	0.79128	-0.59382	-0.0825	0.0158	-0.0042
81	1325	710	460.8	SLD 5	-0.30818	-2.63783	-0.55378	0.2753	0.009	0.0141
81	1325	710	460.8	SLD 6	-0.30818	-2.63783	-0.55378	0.2753	0.009	0.0141
81	1325	710	460.8	SLD 7	-0.30818	2.63783	-0.55378	-0.2753	0.009	-0.0141
81	1325	710	460.8	SLD 8	-0.30818	2.63783	-0.55378	-0.2753	0.009	-0.0141
81	1325	710	460.8	SLD 9	-0.13472	-2.63789	-0.51943	0.2754	0.0031	0.0141
81	1325	710	460.8	SLD 10	-0.13472	-2.63789	-0.51943	0.2754	0.0031	0.0141
81	1325	710	460.8	SLD 11	-0.13472	2.63789	-0.51943	-0.2754	0.0031	-0.0141
81	1325	710	460.8	SLD 12	-0.13472	2.63789	-0.51943	-0.2754	0.0031	-0.0141
81	1325	710	460.8	SLD 13	0.06759	-0.79143	-0.47932	0.0826	-0.0037	0.0042
81	1325	710	460.8	SLD 14	0.06759	-0.79143	-0.47932	0.0826	-0.0037	0.0042
81	1325	710	460.8	SLD 15	0.06759	0.79143	-0.47932	-0.0826	-0.0037	-0.0042
81	1325	710	460.8	SLD 16	0.06759	0.79143	-0.47932	-0.0826	-0.0037	-0.0042
81	1325	710	460.8	SLV 1	-0.96414	-2.03265	-0.68365	0.212	0.0311	0.0109
81	1325	710	460.8	SLV 2	-0.96414	-2.03265	-0.68365	0.212	0.0311	0.0109
81	1325	710	460.8	SLV 3	-0.96414	2.03265	-0.68365	-0.212	0.0311	-0.0109
81	1325	710	460.8	SLV 4	-0.96414	2.03265	-0.68365	-0.212	0.0311	-0.0109
81	1325	710	460.8	SLV 5	-0.44412	-6.77633	-0.58081	0.7074	0.0136	0.0362
81	1325	710	460.8	SLV 6	-0.44412	-6.77633	-0.58081	0.7074	0.0136	0.0362
81	1325	710	460.8	SLV 7	-0.44412	6.77633	-0.58081	-0.7074	0.0136	-0.0362
81	1325	710	460.8	SLV 8	-0.44412	6.77633	-0.58081	-0.7074	0.0136	-0.0362
81	1325	710	460.8	SLV 9	0.00148	-6.77648	-0.49257	0.7075	-0.0015	0.0362
81	1325	710	460.8	SLV 10	0.00148	-6.77648	-0.49257	0.7075	-0.0015	0.0362
81	1325	710	460.8	SLV 11	0.00148	6.77648	-0.49257	-0.7075	-0.0015	-0.0362
81	1325	710	460.8	SLV 12	0.00148	6.77648	-0.49257	-0.7075	-0.0015	-0.0362
81	1325	710	460.8	SLV 13	0.5212	-2.03314	-0.38953	0.2124	-0.019	0.0109
81	1325	710	460.8	SLV 14	0.5212	-2.03314	-0.38953	0.2124	-0.019	0.0109
81	1325	710	460.8	SLV 15	0.5212	2.03314	-0.38953	-0.2124	-0.019	-0.0109
81	1325	710	460.8	SLV 16	0.5212	2.03314	-0.38953	-0.2124	-0.019	-0.0109
81	1325	710	460.8	SLV FO 1	-0.96414	-2.03265	-0.68365	0.212	0.0311	0.0109
81	1325	710	460.8	SLV FO 2	-0.96414	-2.03265	-0.68365	0.212	0.0311	0.0109
81	1325	710	460.8	SLV FO 3	-0.96414	2.03265	-0.68365	-0.212	0.0311	-0.0109
81	1325	710	460.8	SLV FO 4	-0.96414	2.03265	-0.68365	-0.212	0.0311	-0.0109
81	1325	710	460.8	SLV FO 5	-0.44412	-6.77633	-0.58081	0.7074	0.0136	0.0362
81	1325	710	460.8	SLV FO 6	-0.44412	-6.77633	-0.58081	0.7074	0.0136	0.0362
81	1325	710	460.8	SLV FO 7	-0.44412	6.77633	-0.58081	-0.7074	0.0136	-0.0362
81	1325	710	460.8	SLV FO 8	-0.44412	6.77633	-0.58081	-0.7074	0.0136	-0.0362
81	1325	710	460.8	SLV FO 9	0.00148	-6.77648	-0.49257	0.7075	-0.0015	0.0362
81	1325	710	460.8	SLV FO 10	0.00148	-6.77648	-0.49257	0.7075	-0.0015	0.0362
81	1325	710	460.8	SLV FO 11	0.00148	6.77648	-0.49257	-0.7075	-0.0015	-0.0362
81	1325	710	460.8	SLV FO 12	0.00148	6.77648	-0.49257	-0.7075	-0.0015	-0.0362
81	1325	710	460.8	SLV FO 13	0.5212	-2.03314	-0.38953	0.2124	-0.019	0.0109
81	1325	710	460.8	SLV FO 14	0.5212	-2.03314	-0.38953	0.2124	-0.019	0.0109
81	1325	710	460.8	SLV FO 15	0.5212	2.03314	-0.38953	-0.2124	-0.019	-0.0109
81	1325	710	460.8	SLV FO 16	0.5212	2.03314	-0.38953	-0.2124	-0.019	-0.0109
82	1325	1210	460.8	SLU 1	-0.15752	-0.00003	-0.35401	0	0.0047	0
82	1325	1210	460.8	SLU 2	0.06223	1.04662	-0.00029	-0.1122	-0.0016	0.0052
82	1325	1210	460.8	SLU 3	0.26884	1.04657	0.23132	-0.1121	-0.0075	0.0052
82	1325	1210	460.8	SLU 4	0.18676	-0.00026	0.03199	0	-0.0052	0
82	1325	1210	460.8	SLU 5	0.31862	0.62759	0.24423	-0.0672	-0.0089	0.0031
82	1325	1210	460.8	SLU 6	0.00402	1.0466	-0.10712	-0.1122	0	0.0051
82	1325	1210	460.8	SLU 7	0.21062	1.04661	0.12449	-0.1121	-0.0059	0.0052
82	1325	1210	460.8	SLU 8	0.12855	-0.00021	-0.07483	0	-0.0036	0
82	1325	1210	460.8	SLU 9	0.2604	0.62772	0.1374	-0.0672	-0.0074	0.0031
82	1325	1210	460.8	SLU 10	-0.27389	-0.00013	-0.56766	0	0.0078	0
82	1325	1210	460.8	SLU 11	-0.14209	0.62798	-0.35543	-0.0674	0.0041	0.0031
82	1325	1210	460.8	SLU 12	-0.06739	-0.00004	-0.33606	0	0.0019	0
82	1325	1210	460.8	SLU 13	0.06448	0.62799	-0.12382	-0.0673	-0.0019	0.0031
82	1325	1210	460.8	SLU 14	-0.21289	-0.00008	-0.45407	0	0.0062	0
82	1325	1210	460.8	SLU 15	0.00684	1.0466	-0.10035	-0.1122	-0.0001	0.0051
82	1325	1210	460.8	SLU 16	0.21345	1.04661	0.13126	-0.1121	-0.006	0.0052
82	1325	1210	460.8	SLU 17	0.13137	-0.00021	-0.06806	0	-0.0037	0
82	1325	1210	460.8	SLU 18	0.26323	0.62772	0.14417	-0.0672	-0.0074	0.0031
82	1325	1210	460.8	SLU 19	-0.05137	1.04663	-0.20718	-0.1123	0.0015	0.0051
82	1325	1210	460.8	SLU 20	0.15523	1.04665	0.02443	-0.1121	-0.0044	0.0052
82	1325	1210	460.8	SLU 21	0.07316	-0.00016	-0.17489	0	-0.0021	0
82	1325	1210	460.8	SLU 22	0.20505	0.62785	0.03735	-0.0672	-0.0059	0.0031
82	1325	1210	460.8	SLU 23	-0.32926	-0.00018	-0.66771	0	0.0093	0
82	1325	1210	460.8	SLU 24	-0.19745	0.62804	-0.45548	-0.0673	0.0056	0.0031
82	1325	1210	460.8	SLU 25	-0.12277	0.00001	-0.43612	0	0.0034	0
82	1325	1210	460.8	SLU 26	0.0091	0.628	-0.22388	-0.0673	-0.0003	0.0031
82	1325	1210	460.8	SLU 27	-0.20478	-0.00004	-0.46021	0	0.0061	0
82	1325	1210	460.8	SLU 28	0.01496	1.04664	-0.1065	-0.1122	-0.0002	0.0052
82	1325	1210	460.8	SLU 29	0.22156	1.04658	0.12511	-0.1121	-0.0061	0.0052
82	1325	1210	460.8	SLU 30	0.13949	-0.00025	-0.07421	0	-0.0038	0
82	1325	1210	460.8	SLU 31	0.27135	0.6276	0.13802	-0.0672	-0.0075	0.0031
82	1325	1210	460.8	SLU 32	-0.04325	1.04661	-0.21332	-0.1122	0.0014	0.0051
82	1325	1210	460.8	SLU 33	0.16335	1.04662	0.01829	-0.1121	-0.0045	0.0052
82	1325	1210	460.8	SLU 34	0.08128	-0.0002	-0.18104	0	-0.0022	0
82	1325	1210	460.8	SLU 35	0.21313	0.62773	0.0312	-0.0672	-0.006	0.0031
82	1325	1210	460.8	SLU 36	-0.32115	-0.00014	-0.67386	0	0.0092	0
82	1325	1210	460.8	SLU 37	-0.18935	0.62799	-0.46163	-0.0673	0.0055	0.0031
82	1325	1210	460.8	SLU 38	-0.11466	-0.00003	-0.44226	0	0.0033	0
82	1325	1210	460.8	SLU 39	0.01721	0.628	-0.23003	-0.0673	-0.0005	0.0031
82	1325	1210	460.8	SLU 40	-0.26014	-0.00009	-0.56027	0	0.0076	0
82	1325	1210	460.8	SLU 41	-0.04043	1.04661	-0.20655	-0.1122	0.0013	0.0051
82	1325	1210	460.8	SLU 42	0.16617	1.04662	0.02505	-0.1121	-0.0046	0.0052
82	1325	1210	460.8	SLU 43	0.0841	-0.0002	-0.17427	0	-0.0023	0
82	1325	1210	460.8	SLU 44	0.21596	0.62773	0.03796	-0.0672	-0.006	0.0031
82	1325	1210	460.8	SLU 45	-0.09864	1.04658	-0.31338	-0.1122	0.0029	0.0051
82	1325	1210	460.8	SLU 46	0.10796	1.04666	-0.08177	-0.1121	-0.003	0.0052
82	1325	1210	460.8	SLU 47	0.02589	-0.00015	-0.28109	0	-0.0007	0
82	1325	1210	460.8	SLU 48	0.15778	0.62786	-0.06886	-0.0672	-0.0045	0.0031
82	1325	1210	460.8	SLU 49	-0.37651	-0.00019	-0.77392	0	0.0107	0
82	1325	1210	460.8	SLU 50	-0.24472	0.62805	-0.56168	-0.0673	0.007	0.0031
82	1325	1210	460.8	SLU 51	-0.16998	-0.00001	-0.54231	0	0.0048	0
82	1325	1210	460.8	SLU 52	-0.03817	0.62799	-0.33009	-0.0673	0.0011	0.0031
82	1325	1210	460.8	SLE RA 1	-0.19443	-0.00006	-0.42072	0	0.0057	0
82	1325	1210	460.8	SLE RA 2	-0.04796	0.69774	-0.1849	-0.0748	0.0015	0.0034
82	1325	1210	460.8	SLE RA 3	0.08977	0.69775	-0.0305	-0.0747	-0.0024	0.0035
82	1325	1210	460.8	SLE RA 4	0.03506	-0.00013	-0.16338	0	-0.0009	0

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
82	1325	1210	460.8	SLE RA 5	0.12296	0.41849	-0.02189	-0.0448	-0.0034	0.0021
82	1325	1210	460.8	SLE RA 6	-0.08676	0.69768	-0.25612	-0.0748	0.0026	0.0034
82	1325	1210	460.8	SLE RA 7	0.05096	0.69778	-0.10172	-0.0747	-0.0014	0.0034
82	1325	1210	460.8	SLE RA 8	-0.00375	-0.0001	-0.2346	0	0.0001	0
82	1325	1210	460.8	SLE RA 9	0.08418	0.41858	-0.09311	-0.0448	-0.0024	0.0021
82	1325	1210	460.8	SLE RA 10	-0.27201	-0.00013	-0.56315	0	0.0078	0
82	1325	1210	460.8	SLE RA 11	-0.18414	0.41871	-0.42166	-0.0449	0.0053	0.002
82	1325	1210	460.8	SLE RA 12	-0.13432	-0.00001	-0.40874	0	0.0038	0
82	1325	1210	460.8	SLE RA 13	-0.04646	0.41867	-0.26726	-0.0449	0.0013	0.0021
82	1325	1210	460.8	SLE FR 1	-0.19443	-0.00006	-0.42072	0	0.0057	0
82	1325	1210	460.8	SLE FR 2	-0.16515	0.1396	-0.37355	-0.0149	0.0048	0.0007
82	1325	1210	460.8	SLE FR 3	-0.14854	-0.00003	-0.36925	0	0.0043	0
82	1325	1210	460.8	SLE FR 4	-0.20995	-0.00008	-0.4492	0	0.0061	0
82	1325	1210	460.8	SLE QP 1	-0.19443	-0.00006	-0.42072	0	0.0057	0
82	1325	1210	460.8	SLD 1	-0.50268	-0.79192	-0.47763	0.0827	0.0162	0.0042
82	1325	1210	460.8	SLD 2	-0.50268	-0.79192	-0.47763	0.0827	0.0162	0.0042
82	1325	1210	460.8	SLD 3	-0.41391	0.79104	-0.4645	-0.0826	0.013	-0.0043
82	1325	1210	460.8	SLD 4	-0.41391	0.79104	-0.4645	-0.0826	0.013	-0.0043
82	1325	1210	460.8	SLD 5	-0.4216	-2.6394	-0.45775	0.2754	0.0136	0.014
82	1325	1210	460.8	SLD 6	-0.4216	-2.6394	-0.45775	0.2754	0.0136	0.014
82	1325	1210	460.8	SLD 7	-0.12566	2.63648	-0.41397	-0.2752	0.0031	-0.0142
82	1325	1210	460.8	SLD 8	-0.12566	2.63648	-0.41397	-0.2752	0.0031	-0.0142
82	1325	1210	460.8	SLD 9	-0.26329	-2.63938	-0.42754	0.2754	0.0082	0.014
82	1325	1210	460.8	SLD 10	-0.26329	-2.63938	-0.42754	0.2754	0.0082	0.014
82	1325	1210	460.8	SLD 11	0.03264	2.63646	-0.38377	-0.2752	-0.0022	-0.0142
82	1325	1210	460.8	SLD 12	0.03264	2.63646	-0.38377	-0.2752	-0.0022	-0.0142
82	1325	1210	460.8	SLD 13	0.02501	-0.79181	-0.37695	0.0826	-0.0017	0.0042
82	1325	1210	460.8	SLD 14	0.02501	-0.79181	-0.37695	0.0826	-0.0017	0.0042
82	1325	1210	460.8	SLD 15	0.11373	0.79093	-0.36383	-0.0826	-0.0048	-0.0043
82	1325	1210	460.8	SLD 16	0.11373	0.79093	-0.36383	-0.0826	-0.0048	-0.0043
82	1325	1210	460.8	SLV 1	-0.98629	-2.03417	-0.56693	0.2123	0.0326	0.0107
82	1325	1210	460.8	SLV 2	-0.98629	-2.03417	-0.56693	0.2123	0.0326	0.0107
82	1325	1210	460.8	SLV 3	-0.75821	2.03192	-0.53318	-0.2122	0.0246	-0.011
82	1325	1210	460.8	SLV 4	-0.75821	2.03192	-0.53318	-0.2122	0.0246	-0.011
82	1325	1210	460.8	SLV 5	-0.77799	-6.78026	-0.51584	0.7074	0.026	0.0359
82	1325	1210	460.8	SLV 6	-0.77799	-6.78026	-0.51584	0.7074	0.026	0.0359
82	1325	1210	460.8	SLV 7	-0.01767	6.77275	-0.40338	-0.707	-0.0009	-0.0366
82	1325	1210	460.8	SLV 8	-0.01767	6.77275	-0.40338	-0.707	-0.0009	-0.0366
82	1325	1210	460.8	SLV 9	-0.37131	-6.78021	-0.43825	0.7073	0.0122	0.0359
82	1325	1210	460.8	SLV 10	-0.37131	-6.78021	-0.43825	0.7073	0.0122	0.0359
82	1325	1210	460.8	SLV 11	0.38898	6.77271	-0.3258	-0.707	-0.0146	-0.0366
82	1325	1210	460.8	SLV 12	0.38898	6.77271	-0.3258	-0.707	-0.0146	-0.0366
82	1325	1210	460.8	SLV 13	0.36929	-2.03401	-0.3083	0.2122	-0.0133	0.0108
82	1325	1210	460.8	SLV 14	0.36929	-2.03401	-0.3083	0.2122	-0.0133	0.0108
82	1325	1210	460.8	SLV 15	0.59731	2.03176	-0.27458	-0.212	-0.0213	-0.011
82	1325	1210	460.8	SLV 16	0.59731	2.03176	-0.27458	-0.212	-0.0213	-0.011
82	1325	1210	460.8	SLV FO 1	-0.98629	-2.03417	-0.56693	0.2123	0.0326	0.0107
82	1325	1210	460.8	SLV FO 2	-0.98629	-2.03417	-0.56693	0.2123	0.0326	0.0107
82	1325	1210	460.8	SLV FO 3	-0.75821	2.03192	-0.53318	-0.2122	0.0246	-0.011
82	1325	1210	460.8	SLV FO 4	-0.75821	2.03192	-0.53318	-0.2122	0.0246	-0.011
82	1325	1210	460.8	SLV FO 5	-0.77799	-6.78026	-0.51584	0.7074	0.026	0.0359
82	1325	1210	460.8	SLV FO 6	-0.77799	-6.78026	-0.51584	0.7074	0.026	0.0359
82	1325	1210	460.8	SLV FO 7	-0.01767	6.77275	-0.40338	-0.707	-0.0009	-0.0366
82	1325	1210	460.8	SLV FO 8	-0.01767	6.77275	-0.40338	-0.707	-0.0009	-0.0366
82	1325	1210	460.8	SLV FO 9	-0.37131	-6.78021	-0.43825	0.7073	0.0122	0.0359
82	1325	1210	460.8	SLV FO 10	-0.37131	-6.78021	-0.43825	0.7073	0.0122	0.0359
82	1325	1210	460.8	SLV FO 11	0.38898	6.77271	-0.3258	-0.707	-0.0146	-0.0366
82	1325	1210	460.8	SLV FO 12	0.38898	6.77271	-0.3258	-0.707	-0.0146	-0.0366
82	1325	1210	460.8	SLV FO 13	0.36929	-2.03401	-0.3083	0.2122	-0.0133	0.0108
82	1325	1210	460.8	SLV FO 14	0.36929	-2.03401	-0.3083	0.2122	-0.0133	0.0108
82	1325	1210	460.8	SLV FO 15	0.59731	2.03176	-0.27458	-0.212	-0.0213	-0.011
82	1325	1210	460.8	SLV FO 16	0.59731	2.03176	-0.27458	-0.212	-0.0213	-0.011
83	310	210	465	SLU 1	-0.12981	0.00003	-0.09558	0	-0.0049	0
83	310	210	465	SLU 2	0.00906	1.05695	-0.07337	-0.1269	-0.0024	-0.0247
83	310	210	465	SLU 3	0.18881	1.05667	-0.03711	-0.1269	0.0047	-0.0247
83	310	210	465	SLU 4	0.1699	0.00032	-0.03509	-0.0001	0.0069	0
83	310	210	465	SLU 5	0.25313	0.63413	-0.02181	-0.0762	0.0084	-0.0149
83	310	210	465	SLU 6	-0.03952	1.05713	-0.08175	-0.1269	-0.0036	-0.0248
83	310	210	465	SLU 7	0.14019	1.05667	-0.04551	-0.1269	0.0034	-0.0247
83	310	210	465	SLU 8	0.12126	0.00024	-0.0435	-0.0001	0.0057	0
83	310	210	465	SLU 9	0.20452	0.63415	-0.0302	-0.0762	0.0072	-0.0149
83	310	210	465	SLU 10	-0.22702	0.00012	-0.11236	-0.0001	-0.0074	0
83	310	210	465	SLU 11	-0.14365	0.63446	-0.09902	-0.0762	-0.0058	-0.0149
83	310	210	465	SLU 12	-0.04727	0.00002	-0.07609	0	-0.0003	0
83	310	210	465	SLU 13	0.03603	0.63403	-0.06278	-0.0761	0.0012	-0.0148
83	310	210	465	SLU 14	-0.17603	0.00008	-0.10414	0	-0.0062	0
83	310	210	465	SLU 15	-0.03713	1.05713	-0.08193	-0.1269	-0.0037	-0.0248
83	310	210	465	SLU 16	0.14257	1.05667	-0.04569	-0.1269	0.0034	-0.0247
83	310	210	465	SLU 17	0.12365	0.00025	-0.04367	-0.0001	0.0056	0
83	310	210	465	SLU 18	0.20691	0.63415	-0.03037	-0.0762	0.0071	-0.0149
83	310	210	465	SLU 19	-0.08574	1.05716	-0.09032	-0.1269	-0.0049	-0.0248
83	310	210	465	SLU 20	0.09395	1.05667	-0.05408	-0.1269	0.0022	-0.0247
83	310	210	465	SLU 21	0.07502	0.00017	-0.05207	0	0.0044	0
83	310	210	465	SLU 22	0.15828	0.63398	-0.03877	-0.0761	0.0059	-0.0148
83	310	210	465	SLU 23	-0.27324	0.00017	-0.12092	-0.0001	-0.0086	0
83	310	210	465	SLU 24	-0.18988	0.63439	-0.10759	-0.0762	-0.0071	-0.0149
83	310	210	465	SLU 25	-0.09351	0.00003	-0.08467	0	-0.0016	0
83	310	210	465	SLU 26	-0.01015	0.63422	-0.07134	-0.0761	0	-0.0148
83	310	210	465	SLU 27	-0.16876	0.00004	-0.12425	0	-0.0064	0
83	310	210	465	SLU 28	-0.02989	1.05697	-0.10205	-0.1269	-0.0039	-0.0247
83	310	210	465	SLU 29	0.14986	1.05668	-0.06579	-0.1269	0.0032	-0.0247
83	310	210	465	SLU 30	0.13094	0.0003	-0.06377	-0.0001	0.0054	0
83	310	210	465	SLU 31	0.21417	0.63412	-0.05048	-0.0762	0.0069	-0.0149
83	310	210	465	SLU 32	-0.07846	1.05716	-0.11043	-0.1269	-0.0051	-0.0248
83	310	210	465	SLU 33	0.10124	1.05668	-0.07419	-0.1269	0.002	-0.0247
83	310	210	465	SLU 34	0.08231	0.00023	-0.07217	-0.0001	0.0042	0
83	310	210	465	SLU 35	0.16557	0.63414	-0.05887	-0.0761	0.0057	-0.0149
83	310	210	465	SLU 36	-0.26597	0.00013	-0.14103	-0.0001	-0.0088	0
83	310	210	465	SLU 37	-0.1826	0.63448	-0.12769	-0.0762	-0.0073	-0.0149
83	310	210	465	SLU 38	-0.08623	0	-0.10477	0	-0.0018	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
83	310	210	465	SLU 39	-0.00292	0.63404	-0.09146	-0.0761	-0.0002	-0.0148
83	310	210	465	SLU 40	-0.21498	0.00008	-0.13282	0	-0.0077	0
83	310	210	465	SLU 41	-0.07607	1.05716	-0.11061	-0.1269	-0.0052	-0.0248
83	310	210	465	SLU 42	0.10362	1.05668	-0.07436	-0.1269	0.0019	-0.0247
83	310	210	465	SLU 43	0.08469	0.00023	-0.07235	-0.0001	0.0041	0
83	310	210	465	SLU 44	0.16796	0.63414	-0.05905	-0.0761	0.0056	-0.0149
83	310	210	465	SLU 45	-0.12466	1.05737	-0.11899	-0.1269	-0.0064	-0.0248
83	310	210	465	SLU 46	0.05501	1.05671	-0.08276	-0.1269	0.0007	-0.0247
83	310	210	465	SLU 47	0.03606	0.00016	-0.08075	0	0.0029	0
83	310	210	465	SLU 48	0.11933	0.63398	-0.06745	-0.0761	0.0044	-0.0148
83	310	210	465	SLU 49	-0.31218	0.00018	-0.1496	-0.0001	-0.0101	0
83	310	210	465	SLU 50	-0.22882	0.63442	-0.13626	-0.0762	-0.0086	-0.0149
83	310	210	465	SLU 51	-0.13241	0.00004	-0.11333	0	-0.003	0
83	310	210	465	SLU 52	-0.0491	0.63427	-0.10001	-0.0762	-0.0015	-0.0149
83	310	210	465	SLE RA 1	-0.16063	0.00006	-0.10129	0	-0.0058	0
83	310	210	465	SLE RA 2	-0.06803	0.70478	-0.08648	-0.0846	-0.0041	-0.0165
83	310	210	465	SLE RA 3	0.05177	0.70446	-0.06232	-0.0846	0.0006	-0.0165
83	310	210	465	SLE RA 4	0.03915	0.00015	-0.06098	0	0.0021	0
83	310	210	465	SLE RA 5	0.09466	0.42276	-0.05211	-0.0508	0.0031	-0.0099
83	310	210	465	SLE RA 6	-0.1004	0.70506	-0.09206	-0.0846	-0.0049	-0.0165
83	310	210	465	SLE RA 7	0.01938	0.70454	-0.06791	-0.0846	-0.0002	-0.0165
83	310	210	465	SLE RA 8	0.00673	0.0001	-0.06658	0	0.0013	0
83	310	210	465	SLE RA 9	0.06224	0.42266	-0.05771	-0.0508	0.0023	-0.0099
83	310	210	465	SLE RA 10	-0.22543	0.00012	-0.11247	-0.0001	-0.0074	0
83	310	210	465	SLE RA 11	-0.16985	0.42292	-0.10359	-0.0508	-0.0064	-0.0099
83	310	210	465	SLE RA 12	-0.10558	0.00003	-0.08829	0	-0.0027	0
83	310	210	465	SLE RA 13	-0.05004	0.42286	-0.07942	-0.0508	-0.0017	-0.0099
83	310	210	465	SLE FR 1	-0.16063	0.00006	-0.10129	0	-0.0058	0
83	310	210	465	SLE FR 2	-0.1421	0.14095	-0.09833	-0.0169	-0.0055	-0.0033
83	310	210	465	SLE FR 3	-0.12068	0.00003	-0.09323	0	-0.0042	0
83	310	210	465	SLE FR 4	-0.17359	0.00007	-0.10353	0	-0.0061	0
83	310	210	465	SLE QP 1	-0.16063	0.00006	-0.10129	0	-0.0058	0
83	310	210	465	SLD 1	-0.35753	-0.9144	-0.16652	0.107	-0.0214	0.0263
83	310	210	465	SLD 2	-0.35753	-0.9144	-0.16652	0.107	-0.0214	0.0263
83	310	210	465	SLD 3	-0.43649	0.91525	-0.19375	-0.1074	-0.028	-0.0263
83	310	210	465	SLD 4	-0.43649	0.91525	-0.19375	-0.1074	-0.028	-0.0263
83	310	210	465	SLD 5	-0.09989	-3.04831	-0.07954	0.3569	-0.0003	0.0875
83	310	210	465	SLD 6	-0.09989	-3.04831	-0.07954	0.3569	-0.0003	0.0875
83	310	210	465	SLD 7	-0.36316	3.05137	-0.17031	-0.3579	-0.0226	-0.0877
83	310	210	465	SLD 8	-0.36316	3.05137	-0.17031	-0.3579	-0.0226	-0.0877
83	310	210	465	SLD 9	0.04194	-3.04835	-0.03223	0.357	0.011	0.0875
83	310	210	465	SLD 10	0.04194	-3.04835	-0.03223	0.357	0.011	0.0875
83	310	210	465	SLD 11	-0.22133	3.05143	-0.123	-0.3579	-0.0113	-0.0877
83	310	210	465	SLD 12	-0.22133	3.05143	-0.123	-0.3579	-0.0113	-0.0877
83	310	210	465	SLD 13	0.11521	-0.9147	-0.00883	0.1071	0.0164	0.0262
83	310	210	465	SLD 14	0.11521	-0.9147	-0.00883	0.1071	0.0164	0.0262
83	310	210	465	SLD 15	0.03627	0.91564	-0.03605	-0.1074	0.0097	-0.0263
83	310	210	465	SLD 16	0.03627	0.91564	-0.03605	-0.1074	0.0097	-0.0263
83	310	210	465	SLV 1	-0.66641	-2.34911	-0.26886	0.275	-0.0458	0.0675
83	310	210	465	SLV 2	-0.66641	-2.34911	-0.26886	0.275	-0.0458	0.0675
83	310	210	465	SLV 3	-0.8693	2.35136	-0.33881	-0.2758	-0.0629	-0.0675
83	310	210	465	SLV 4	-0.8693	2.35136	-0.33881	-0.2758	-0.0629	-0.0675
83	310	210	465	SLV 5	-0.0045	-7.83045	-0.04539	0.917	0.0082	0.2247
83	310	210	465	SLV 6	-0.0045	-7.83045	-0.04539	0.917	0.0082	0.2247
83	310	210	465	SLV 7	-0.6809	7.83836	-0.27859	-0.9195	-0.049	-0.2252
83	310	210	465	SLV 8	-0.6809	7.83836	-0.27859	-0.9195	-0.049	-0.2252
83	310	210	465	SLV 9	0.35984	-7.83056	0.07614	0.917	0.0374	0.2247
83	310	210	465	SLV 10	0.35984	-7.83056	0.07614	0.917	0.0374	0.2247
83	310	210	465	SLV 11	-0.31656	7.83853	-0.15706	-0.9195	-0.0198	-0.2252
83	310	210	465	SLV 12	-0.31656	7.83853	-0.15706	-0.9195	-0.0198	-0.2252
83	310	210	465	SLV 13	0.54805	-2.34947	0.13625	0.2752	0.0513	0.0674
83	310	210	465	SLV 14	0.54805	-2.34947	0.13625	0.2752	0.0513	0.0674
83	310	210	465	SLV 15	0.34518	2.35193	0.0663	-0.2759	0.0342	-0.0676
83	310	210	465	SLV 16	0.34518	2.35193	0.0663	-0.2759	0.0342	-0.0676
83	310	210	465	SLV FO 1	-0.66641	-2.34911	-0.26886	0.275	-0.0458	0.0675
83	310	210	465	SLV FO 2	-0.66641	-2.34911	-0.26886	0.275	-0.0458	0.0675
83	310	210	465	SLV FO 3	-0.8693	2.35136	-0.33881	-0.2758	-0.0629	-0.0675
83	310	210	465	SLV FO 4	-0.8693	2.35136	-0.33881	-0.2758	-0.0629	-0.0675
83	310	210	465	SLV FO 5	-0.0045	-7.83045	-0.04539	0.917	0.0082	0.2247
83	310	210	465	SLV FO 6	-0.0045	-7.83045	-0.04539	0.917	0.0082	0.2247
83	310	210	465	SLV FO 7	-0.6809	7.83836	-0.27859	-0.9195	-0.049	-0.2252
83	310	210	465	SLV FO 8	-0.6809	7.83836	-0.27859	-0.9195	-0.049	-0.2252
83	310	210	465	SLV FO 9	0.35984	-7.83056	0.07614	0.917	0.0374	0.2247
83	310	210	465	SLV FO 10	0.35984	-7.83056	0.07614	0.917	0.0374	0.2247
83	310	210	465	SLV FO 11	-0.31656	7.83853	-0.15706	-0.9195	-0.0198	-0.2252
83	310	210	465	SLV FO 12	-0.31656	7.83853	-0.15706	-0.9195	-0.0198	-0.2252
83	310	210	465	SLV FO 13	0.54805	-2.34947	0.13625	0.2752	0.0513	0.0674
83	310	210	465	SLV FO 14	0.54805	-2.34947	0.13625	0.2752	0.0513	0.0674
83	310	210	465	SLV FO 15	0.34518	2.35193	0.0663	-0.2759	0.0342	-0.0676
83	310	210	465	SLV FO 16	0.34518	2.35193	0.0663	-0.2759	0.0342	-0.0676
84	310	710	465	SLU 1	-0.1389	0	-0.0994	0	-0.0054	0
84	310	710	465	SLU 2	0.07696	1.05574	-0.07709	-0.1266	-0.0054	-0.0249
84	310	710	465	SLU 3	0.3025	1.05524	-0.0421	-0.1266	-0.0001	-0.0249
84	310	710	465	SLU 4	0.23695	0	-0.0411	0	0.0033	0
84	310	710	465	SLU 5	0.36654	0.63306	-0.02769	-0.0759	0.0033	-0.015
84	310	710	465	SLU 6	0.01194	1.05599	-0.08261	-0.1267	-0.0051	-0.0249
84	310	710	465	SLU 7	0.23753	1.05531	-0.0476	-0.1266	0.0001	-0.0249
84	310	710	465	SLU 8	0.17197	0	-0.04661	0	0.0036	0
84	310	710	465	SLU 9	0.30154	0.63315	-0.0332	-0.0759	0.0036	-0.015
84	310	710	465	SLU 10	-0.26892	0	-0.11044	0	-0.0049	0
84	310	710	465	SLU 11	-0.13943	0.6339	-0.09706	-0.0761	-0.0049	-0.015
84	310	710	465	SLU 12	-0.04332	0	-0.07543	0	0.0003	0
84	310	710	465	SLU 13	0.0862	0.63325	-0.06204	-0.076	0.0004	-0.015
84	310	710	465	SLU 14	-0.20058	0	-0.10578	0	-0.0054	0
84	310	710	465	SLU 15	0.01527	1.05599	-0.08347	-0.1267	-0.0054	-0.0249
84	310	710	465	SLU 16	0.24086	1.05531	-0.04846	-0.1266	-0.0002	-0.0249
84	310	710	465	SLU 17	0.1753	0	-0.04747	0	0.0033	0
84	310	710	465	SLU 18	0.30487	0.63315	-0.03406	-0.0759	0.0033	-0.015
84	310	710	465	SLU 19	-0.04971	1.05609	-0.08898	-0.1267	-0.0051	-0.0249
84	310	710	465	SLU 20	0.17589	1.05538	-0.05397	-0.1266	0.0001	-0.0249
84	310	710	465	SLU 21	0.11033	0	-0.05297	0	0.0035	0
84	310	710	465	SLU 22	0.23986	0.63305	-0.03958	-0.0759	0.0036	-0.015
84	310	710	465	SLU 23	-0.33059	0	-0.11681	0	-0.0049	0

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
84	310	710	465	SLU 24	-0.20111	0.63391	-0.10344	-0.0761	-0.0049	-0.015
84	310	710	465	SLU 25	-0.10496	0	-0.08179	0	0.0003	0
84	310	710	465	SLU 26	0.0245	0.63351	-0.06842	-0.076	0.0004	-0.015
84	310	710	465	SLU 27	-0.18058	0	-0.12922	0	-0.007	0
84	310	710	465	SLU 28	0.03531	1.05577	-0.1069	-0.1267	-0.007	-0.0249
84	310	710	465	SLU 29	0.26085	1.05526	-0.07191	-0.1266	-0.0018	-0.0249
84	310	710	465	SLU 30	0.19529	0	-0.07091	0	0.0017	0
84	310	710	465	SLU 31	0.32489	0.63306	-0.0575	-0.0759	0.0017	-0.015
84	310	710	465	SLU 32	-0.02972	1.05604	-0.11243	-0.1267	-0.0067	-0.0249
84	310	710	465	SLU 33	0.19587	1.05533	-0.07742	-0.1266	-0.0015	-0.0249
84	310	710	465	SLU 34	0.13032	0	-0.07642	0	0.0019	0
84	310	710	465	SLU 35	0.25988	0.63315	-0.06302	-0.0759	0.002	-0.015
84	310	710	465	SLU 36	-0.31059	0	-0.14026	0	-0.0065	0
84	310	710	465	SLU 37	-0.18109	0.63394	-0.12688	-0.0761	-0.0065	-0.015
84	310	710	465	SLU 38	-0.08497	0	-0.10524	0	-0.0013	0
84	310	710	465	SLU 39	0.04455	0.63327	-0.09186	-0.076	-0.0012	-0.015
84	310	710	465	SLU 40	-0.24225	0	-0.1356	0	-0.007	0
84	310	710	465	SLU 41	-0.02639	1.05603	-0.11328	-0.1267	-0.007	-0.0249
84	310	710	465	SLU 42	0.1992	1.05533	-0.07828	-0.1266	-0.0018	-0.0249
84	310	710	465	SLU 43	0.13365	0	-0.07728	0	0.0017	0
84	310	710	465	SLU 44	0.26321	0.63315	-0.06388	-0.0759	0.0017	-0.015
84	310	710	465	SLU 45	-0.0914	1.05632	-0.11881	-0.1267	-0.0067	-0.0249
84	310	710	465	SLU 46	0.13422	1.05544	-0.08379	-0.1266	-0.0015	-0.0249
84	310	710	465	SLU 47	0.06867	0	-0.08279	0	0.0019	0
84	310	710	465	SLU 48	0.19821	0.63307	-0.06939	-0.0759	0.002	-0.015
84	310	710	465	SLU 49	-0.37226	0	-0.14663	0	-0.0065	0
84	310	710	465	SLU 50	-0.24277	0.63395	-0.13325	-0.0761	-0.0065	-0.015
84	310	710	465	SLU 51	-0.14673	0	-0.11165	0	-0.0013	0
84	310	710	465	SLU 52	-0.01716	0.63358	-0.09824	-0.076	-0.0013	-0.015
84	310	710	465	SLE RA 1	-0.18002	0	-0.10365	0	-0.0054	0
84	310	710	465	SLE RA 2	-0.03611	0.70404	-0.08878	-0.0845	-0.0054	-0.0166
84	310	710	465	SLE RA 3	0.11429	0.70356	-0.06543	-0.0844	-0.0019	-0.0166
84	310	710	465	SLE RA 4	0.07059	0	-0.06477	0	0.0004	0
84	310	710	465	SLE RA 5	0.15696	0.42211	-0.05583	-0.0506	0.0004	-0.01
84	310	710	465	SLE RA 6	-0.07948	0.70437	-0.09246	-0.0845	-0.0052	-0.0166
84	310	710	465	SLE RA 7	0.07095	0.7037	-0.06912	-0.0844	-0.0017	-0.0166
84	310	710	465	SLE RA 8	0.02727	0	-0.06844	0	0.0006	0
84	310	710	465	SLE RA 9	0.11363	0.42205	-0.05951	-0.0506	0.0006	-0.01
84	310	710	465	SLE RA 10	-0.2667	0	-0.11101	0	-0.0051	0
84	310	710	465	SLE RA 11	-0.18037	0.42262	-0.10209	-0.0507	-0.005	-0.01
84	310	710	465	SLE RA 12	-0.11634	0	-0.08769	0	-0.0016	0
84	310	710	465	SLE RA 13	-0.02995	0.4224	-0.07875	-0.0507	-0.0016	-0.01
84	310	710	465	SLE FR 1	-0.18002	0	-0.10365	0	-0.0054	0
84	310	710	465	SLE FR 2	-0.15125	0.14088	-0.10068	-0.0169	-0.0054	-0.0033
84	310	710	465	SLE FR 3	-0.1299	0	-0.09588	0	-0.0043	0
84	310	710	465	SLE FR 4	-0.19736	0	-0.10512	0	-0.0053	0
84	310	710	465	SLE QP 1	-0.18002	0	-0.10365	0	-0.0054	0
84	310	710	465	SLD 1	-0.43905	-0.91498	-0.18902	0.1072	-0.0259	0.0263
84	310	710	465	SLD 2	-0.43905	-0.91498	-0.18902	0.1072	-0.0259	0.0263
84	310	710	465	SLD 3	-0.43905	0.91498	-0.18902	-0.1072	-0.0259	-0.0263
84	310	710	465	SLD 4	-0.43905	0.91498	-0.18902	-0.1072	-0.0259	-0.0263
84	310	710	465	SLD 5	-0.2575	-3.04988	-0.12917	0.3572	-0.0115	0.0876
84	310	710	465	SLD 6	-0.2575	-3.04988	-0.12917	0.3572	-0.0115	0.0876
84	310	710	465	SLD 7	-0.2575	3.04988	-0.12917	-0.3572	-0.0115	-0.0876
84	310	710	465	SLD 8	-0.2575	3.04988	-0.12917	-0.3572	-0.0115	-0.0876
84	310	710	465	SLD 9	-0.10203	-3.04987	-0.07793	0.3572	0.0007	0.0876
84	310	710	465	SLD 10	-0.10203	-3.04987	-0.07793	0.3572	0.0007	0.0876
84	310	710	465	SLD 11	-0.10203	3.04987	-0.07793	-0.3572	0.0007	-0.0876
84	310	710	465	SLD 12	-0.10203	3.04987	-0.07793	-0.3572	0.0007	-0.0876
84	310	710	465	SLD 13	0.0792	-0.91513	-0.01821	0.1072	0.0151	0.0263
84	310	710	465	SLD 14	0.0792	-0.91513	-0.01821	0.1072	0.0151	0.0263
84	310	710	465	SLD 15	0.0792	0.91513	-0.01821	-0.1072	0.0151	-0.0263
84	310	710	465	SLD 16	0.0792	0.91513	-0.01821	-0.1072	0.0151	-0.0263
84	310	710	465	SLV 1	-0.84544	-2.35052	-0.32296	0.2753	-0.058	0.0675
84	310	710	465	SLV 2	-0.84544	-2.35052	-0.32296	0.2753	-0.058	0.0675
84	310	710	465	SLV 3	-0.84544	2.35052	-0.32296	-0.2753	-0.058	-0.0675
84	310	710	465	SLV 4	-0.84544	2.35052	-0.32296	-0.2753	-0.058	-0.0675
84	310	710	465	SLV 5	-0.37914	-7.83438	-0.16923	0.9174	-0.0212	0.225
84	310	710	465	SLV 6	-0.37914	-7.83438	-0.16923	0.9174	-0.0212	0.225
84	310	710	465	SLV 7	-0.37914	7.83438	-0.16923	-0.9174	-0.0212	-0.225
84	310	710	465	SLV 8	-0.37914	7.83438	-0.16923	-0.9174	-0.0212	-0.225
84	310	710	465	SLV 9	0.02024	-7.83436	-0.0376	0.9174	0.0104	0.225
84	310	710	465	SLV 10	0.02024	-7.83436	-0.0376	0.9174	0.0104	0.225
84	310	710	465	SLV 11	0.02024	7.83436	-0.0376	-0.9174	0.0104	-0.225
84	310	710	465	SLV 12	0.02024	7.83436	-0.0376	-0.9174	0.0104	-0.225
84	310	710	465	SLV 13	0.48581	-2.35046	0.11582	0.2752	0.0472	0.0675
84	310	710	465	SLV 14	0.48581	-2.35046	0.11582	0.2752	0.0472	0.0675
84	310	710	465	SLV 15	0.48581	2.35046	0.11582	-0.2752	0.0472	-0.0675
84	310	710	465	SLV 16	0.48581	2.35046	0.11582	-0.2752	0.0472	-0.0675
84	310	710	465	SLV FO 1	-0.84544	-2.35052	-0.32296	0.2753	-0.058	0.0675
84	310	710	465	SLV FO 2	-0.84544	-2.35052	-0.32296	0.2753	-0.058	0.0675
84	310	710	465	SLV FO 3	-0.84544	2.35052	-0.32296	-0.2753	-0.058	-0.0675
84	310	710	465	SLV FO 4	-0.84544	2.35052	-0.32296	-0.2753	-0.058	-0.0675
84	310	710	465	SLV FO 5	-0.37914	-7.83438	-0.16923	0.9174	-0.0212	0.225
84	310	710	465	SLV FO 6	-0.37914	-7.83438	-0.16923	0.9174	-0.0212	0.225
84	310	710	465	SLV FO 7	-0.37914	7.83438	-0.16923	-0.9174	-0.0212	-0.225
84	310	710	465	SLV FO 8	-0.37914	7.83438	-0.16923	-0.9174	-0.0212	-0.225
84	310	710	465	SLV FO 9	0.02024	-7.83436	-0.0376	0.9174	0.0104	0.225
84	310	710	465	SLV FO 10	0.02024	-7.83436	-0.0376	0.9174	0.0104	0.225
84	310	710	465	SLV FO 11	0.02024	7.83436	-0.0376	-0.9174	0.0104	-0.225
84	310	710	465	SLV FO 12	0.02024	7.83436	-0.0376	-0.9174	0.0104	-0.225
84	310	710	465	SLV FO 13	0.48581	-2.35046	0.11582	0.2752	0.0472	0.0675
84	310	710	465	SLV FO 14	0.48581	-2.35046	0.11582	0.2752	0.0472	0.0675
84	310	710	465	SLV FO 15	0.48581	2.35046	0.11582	-0.2752	0.0472	-0.0675
84	310	710	465	SLV FO 16	0.48581	2.35046	0.11582	-0.2752	0.0472	-0.0675
85	310	1210	465	SLU 1	-0.12981	-0.00003	-0.09558	0	-0.0049	0
85	310	1210	465	SLU 2	0.05496	1.05509	-0.05776	-0.1266	0.0015	-0.0249
85	310	1210	465	SLU 3	0.23481	1.05473	-0.02147	-0.1266	0.0086	-0.0249
85	310	1210	465	SLU 4	0.1699	-0.00032	-0.03509	0.0001	0.0069	0
85	310	1210	465	SLU 5	0.28076	0.63275	-0.0124	-0.0759	0.0107	-0.0149

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
85	310	1210	465	SLU 6	0.00633	1.0553	-0.06616	-0.1266	0.0003	-0.0249
85	310	1210	465	SLU 7	0.18618	1.05476	-0.02987	-0.1265	0.0074	-0.0249
85	310	1210	465	SLU 8	0.12126	-0.00024	-0.0435	0.0001	0.0057	0
85	310	1210	465	SLU 9	0.23212	0.63287	-0.02081	-0.0759	0.0095	-0.0149
85	310	1210	465	SLU 10	-0.22702	-0.00012	-0.11236	0.0001	-0.0074	0
85	310	1210	465	SLU 11	-0.11621	0.6334	-0.08969	-0.0759	-0.0035	-0.015
85	310	1210	465	SLU 12	-0.04727	-0.00002	-0.07609	0	-0.0003	0
85	310	1210	465	SLU 13	0.06361	0.63289	-0.0534	-0.0759	0.0036	-0.0149
85	310	1210	465	SLU 14	-0.17603	-0.00008	-0.10414	0	-0.0062	0
85	310	1210	465	SLU 15	0.00871	1.05529	-0.06634	-0.1266	0.0002	-0.0249
85	310	1210	465	SLU 16	0.18856	1.05476	-0.03004	-0.1265	0.0073	-0.0249
85	310	1210	465	SLU 17	0.12365	-0.00025	-0.04367	0.0001	0.0056	0
85	310	1210	465	SLU 18	0.23451	0.63286	-0.02098	-0.0759	0.0095	-0.0149
85	310	1210	465	SLU 19	-0.03992	1.05535	-0.07474	-0.1266	-0.001	-0.0249
85	310	1210	465	SLU 20	0.13993	1.05478	-0.03844	-0.1265	0.0061	-0.0249
85	310	1210	465	SLU 21	0.07502	-0.00017	-0.05207	0	0.0044	0
85	310	1210	465	SLU 22	0.18591	0.63279	-0.02938	-0.0759	0.0083	-0.0149
85	310	1210	465	SLU 23	-0.27324	-0.00017	-0.12092	0.0001	-0.0086	0
85	310	1210	465	SLU 24	-0.16243	0.63337	-0.09826	-0.0759	-0.0048	-0.015
85	310	1210	465	SLU 25	-0.09351	-0.00003	-0.08467	0	-0.0016	0
85	310	1210	465	SLU 26	0.01737	0.63311	-0.06198	-0.0759	0.0023	-0.0149
85	310	1210	465	SLU 27	-0.16876	-0.00004	-0.12425	0	-0.0064	0
85	310	1210	465	SLU 28	0.01601	1.05511	-0.08644	-0.1266	0	-0.0249
85	310	1210	465	SLU 29	0.19586	1.05475	-0.05014	-0.1266	0.0071	-0.0249
85	310	1210	465	SLU 30	0.13094	-0.0003	-0.06377	0.0001	0.0054	0
85	310	1210	465	SLU 31	0.24181	0.63275	-0.04108	-0.0759	0.0093	-0.0149
85	310	1210	465	SLU 32	-0.03263	1.05533	-0.09484	-0.1266	-0.0012	-0.0249
85	310	1210	465	SLU 33	0.14722	1.05477	-0.05854	-0.1265	0.0059	-0.0249
85	310	1210	465	SLU 34	0.08231	-0.00023	-0.07217	0.0001	0.0042	0
85	310	1210	465	SLU 35	0.19317	0.63288	-0.04949	-0.0759	0.0081	-0.0149
85	310	1210	465	SLU 36	-0.26597	-0.00013	-0.14103	0.0001	-0.0088	0
85	310	1210	465	SLU 37	-0.15516	0.63343	-0.11836	-0.0759	-0.005	-0.015
85	310	1210	465	SLU 38	-0.08623	0	-0.10477	0	-0.0018	0
85	310	1210	465	SLU 39	0.02466	0.63291	-0.08208	-0.0759	0.0021	-0.0149
85	310	1210	465	SLU 40	-0.21498	-0.00008	-0.13282	0	-0.0077	0
85	310	1210	465	SLU 41	-0.03024	1.05533	-0.09502	-0.1266	-0.0013	-0.0249
85	310	1210	465	SLU 42	0.14961	1.05477	-0.05872	-0.1265	0.0058	-0.0249
85	310	1210	465	SLU 43	0.08469	-0.00023	-0.07235	0.0001	0.0041	0
85	310	1210	465	SLU 44	0.19556	0.63288	-0.04966	-0.0759	0.008	-0.0149
85	310	1210	465	SLU 45	-0.07887	1.05556	-0.10342	-0.1266	-0.0025	-0.0249
85	310	1210	465	SLU 46	0.10097	1.05483	-0.06712	-0.1265	0.0046	-0.0249
85	310	1210	465	SLU 47	0.03606	-0.00016	-0.08075	0	0.0029	0
85	310	1210	465	SLU 48	0.14695	0.6328	-0.05805	-0.0759	0.0068	-0.0149
85	310	1210	465	SLU 49	-0.31218	-0.00018	-0.1496	0.0001	-0.0101	0
85	310	1210	465	SLU 50	-0.20138	0.6334	-0.12693	-0.0759	-0.0062	-0.015
85	310	1210	465	SLU 51	-0.13241	-0.00004	-0.11333	0	-0.003	0
85	310	1210	465	SLU 52	-0.02159	0.63317	-0.09065	-0.0759	0.0008	-0.0149
85	310	1210	465	SLE RA 1	-0.16063	-0.00006	-0.10129	0	-0.0058	0
85	310	1210	465	SLE RA 2	-0.03748	0.70356	-0.07609	-0.0844	-0.0015	-0.0166
85	310	1210	465	SLE RA 3	0.08242	0.70319	-0.05189	-0.0844	0.0032	-0.0166
85	310	1210	465	SLE RA 4	0.03915	-0.00015	-0.06098	0	0.0021	0
85	310	1210	465	SLE RA 5	0.11306	0.42192	-0.04585	-0.0506	0.0047	-0.01
85	310	1210	465	SLE RA 6	-0.06989	0.70386	-0.08169	-0.0844	-0.0023	-0.0166
85	310	1210	465	SLE RA 7	0.05	0.70329	-0.05749	-0.0844	0.0024	-0.0166
85	310	1210	465	SLE RA 8	0.00673	-0.0001	-0.06658	0	0.0013	0
85	310	1210	465	SLE RA 9	0.08065	0.42187	-0.05145	-0.0506	0.0039	-0.0099
85	310	1210	465	SLE RA 10	-0.22543	-0.00012	-0.11247	0.0001	-0.0074	0
85	310	1210	465	SLE RA 11	-0.15156	0.42224	-0.09736	-0.0506	-0.0048	-0.01
85	310	1210	465	SLE RA 12	-0.10558	-0.00003	-0.08829	0	-0.0027	0
85	310	1210	465	SLE RA 13	-0.03171	0.42212	-0.07318	-0.0506	-0.0001	-0.01
85	310	1210	465	SLE FR 1	-0.16063	-0.00006	-0.10129	0	-0.0058	0
85	310	1210	465	SLE FR 2	-0.136	0.14074	-0.09625	-0.0169	-0.0049	-0.0033
85	310	1210	465	SLE FR 3	-0.12068	-0.00003	-0.09323	0	-0.0042	0
85	310	1210	465	SLE FR 4	-0.17359	-0.00007	-0.10353	0	-0.0061	0
85	310	1210	465	SLE QP 1	-0.16063	-0.00006	-0.10129	0	-0.0058	0
85	310	1210	465	SLD 1	-0.43649	-0.91525	-0.19375	0.1074	-0.028	0.0263
85	310	1210	465	SLD 2	-0.43649	-0.91525	-0.19375	0.1074	-0.028	0.0263
85	310	1210	465	SLD 3	-0.35753	0.9144	-0.16652	-0.107	-0.0214	-0.0263
85	310	1210	465	SLD 4	-0.35753	0.9144	-0.16652	-0.107	-0.0214	-0.0263
85	310	1210	465	SLD 5	-0.36316	-3.05137	-0.17031	0.3579	-0.0226	0.0877
85	310	1210	465	SLD 6	-0.36316	-3.05137	-0.17031	0.3579	-0.0226	0.0877
85	310	1210	465	SLD 7	-0.09989	3.04831	-0.07954	-0.3569	-0.0003	-0.0875
85	310	1210	465	SLD 8	-0.09989	3.04831	-0.07954	-0.3569	-0.0003	-0.0875
85	310	1210	465	SLD 9	-0.22133	-3.05143	-0.123	0.3579	-0.0113	0.0877
85	310	1210	465	SLD 10	-0.22133	-3.05143	-0.123	0.3579	-0.0113	0.0877
85	310	1210	465	SLD 11	0.04194	3.04835	-0.03223	-0.357	0.011	-0.0875
85	310	1210	465	SLD 12	0.04194	3.04835	-0.03223	-0.357	0.011	-0.0875
85	310	1210	465	SLD 13	0.03627	-0.91564	-0.03605	0.1074	0.0097	0.0263
85	310	1210	465	SLD 14	0.03627	-0.91564	-0.03605	0.1074	0.0097	0.0263
85	310	1210	465	SLD 15	0.11521	0.9147	-0.00883	-0.1071	0.0164	-0.0262
85	310	1210	465	SLD 16	0.11521	0.9147	-0.00883	-0.1071	0.0164	-0.0262
85	310	1210	465	SLV 1	-0.8693	-2.35136	-0.33881	0.2758	-0.0629	0.0675
85	310	1210	465	SLV 2	-0.8693	-2.35136	-0.33881	0.2758	-0.0629	0.0675
85	310	1210	465	SLV 3	-0.66641	2.34911	-0.26886	-0.275	-0.0458	-0.0675
85	310	1210	465	SLV 4	-0.66641	2.34911	-0.26886	-0.275	-0.0458	-0.0675
85	310	1210	465	SLV 5	-0.6809	-7.83836	-0.27859	0.9195	-0.049	0.2252
85	310	1210	465	SLV 6	-0.6809	-7.83836	-0.27859	0.9195	-0.049	0.2252
85	310	1210	465	SLV 7	-0.0045	7.83045	-0.04539	-0.917	0.0082	-0.2247
85	310	1210	465	SLV 8	-0.0045	7.83045	-0.04539	-0.917	0.0082	-0.2247
85	310	1210	465	SLV 9	-0.31656	-7.83853	-0.15706	0.9195	-0.0198	0.2252
85	310	1210	465	SLV 10	-0.31656	-7.83853	-0.15706	0.9195	-0.0198	0.2252
85	310	1210	465	SLV 11	0.35984	7.83056	0.07614	-0.917	0.0374	-0.2247
85	310	1210	465	SLV 12	0.35984	7.83056	0.07614	-0.917	0.0374	-0.2247
85	310	1210	465	SLV 13	0.34518	-2.35193	0.0663	0.2759	0.0342	0.0676
85	310	1210	465	SLV 14	0.34518	-2.35193	0.0663	0.2759	0.0342	0.0676
85	310	1210	465	SLV 15	0.54805	2.34947	0.13625	-0.2752	0.0513	-0.0674
85	310	1210	465	SLV 16	0.54805	2.34947	0.13625	-0.2752	0.0513	-0.0674
85	310	1210	465	SLV FO 1	-0.8693	-2.35136	-0.33881	0.2758	-0.0629	0.0675
85	310	1210	465	SLV FO 2	-0.8693	-2.35136	-0.33881	0.2758	-0.0629	0.0675
85	310	1210	465	SLV FO 3	-0.66641	2.34911	-0.26886	-0.275	-0.0458	-0.0675
85	310	1210	465	SLV FO 4	-0.66641	2.34911	-0.26886	-0.275	-0.0458	-0.0675
85	310	1210	465	SLV FO 5	-0.6809	-7.83836	-0.27859	0.9195	-0.049	0.2252
85	310	1210	465	SLV FO 6	-0.6809	-7.83836	-0.27859	0.9195	-0.049	0.2252

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
85	310	1210	465	SLV FO 7	-0.0045	7.83045	-0.04539	-0.917	0.0082	-0.2247
85	310	1210	465	SLV FO 8	-0.0045	7.83045	-0.04539	-0.917	0.0082	-0.2247
85	310	1210	465	SLV FO 9	-0.31656	-7.83853	-0.15706	0.9195	-0.0198	0.2252
85	310	1210	465	SLV FO 10	-0.31656	-7.83853	-0.15706	0.9195	-0.0198	0.2252
85	310	1210	465	SLV FO 11	0.35984	7.83056	0.07614	-0.917	0.0374	-0.2247
85	310	1210	465	SLV FO 12	0.35984	7.83056	0.07614	-0.917	0.0374	-0.2247
85	310	1210	465	SLV FO 13	0.34518	-2.35193	0.0663	0.2759	0.0342	0.0676
85	310	1210	465	SLV FO 14	0.34518	-2.35193	0.0663	0.2759	0.0342	0.0676
85	310	1210	465	SLV FO 15	0.54805	2.34947	0.13625	-0.2752	0.0513	-0.0674
85	310	1210	465	SLV FO 16	0.54805	2.34947	0.13625	-0.2752	0.0513	-0.0674
86	1155	210	482.2	SLU 1	-0.15285	0.00003	-0.31817	0	0.0182	0
86	1155	210	482.2	SLU 2	0.00988	1.06927	-0.01084	-0.09	-0.0026	0.0054
86	1155	210	482.2	SLU 3	0.21187	1.06933	0.18597	-0.09	-0.0188	0.0054
86	1155	210	482.2	SLU 4	0.18393	0.00026	0.00983	0	-0.0089	0
86	1155	210	482.2	SLU 5	0.28147	0.64156	0.19423	-0.0539	-0.0213	0.0032
86	1155	210	482.2	SLU 6	-0.0466	1.06929	-0.10488	-0.0901	0.004	0.0054
86	1155	210	482.2	SLU 7	0.15533	1.0693	0.09192	-0.0899	-0.0122	0.0054
86	1155	210	482.2	SLU 8	0.12739	0.00021	-0.08422	0	-0.0023	0
86	1155	210	482.2	SLU 9	0.22496	0.64159	0.10018	-0.054	-0.0147	0.0032
86	1155	210	482.2	SLU 10	-0.26588	0.00013	-0.50627	0	0.0314	0
86	1155	210	482.2	SLU 11	-0.16819	0.64164	-0.32186	-0.0541	0.0189	0.0032
86	1155	210	482.2	SLU 12	-0.06388	0.00004	-0.30947	0	0.0151	0
86	1155	210	482.2	SLU 13	0.03374	0.64159	-0.12506	-0.054	0.0027	0.0033
86	1155	210	482.2	SLU 14	-0.20663	0.00008	-0.40614	0	0.0244	0
86	1155	210	482.2	SLU 15	-0.04387	1.06929	-0.0988	-0.0901	0.0036	0.0054
86	1155	210	482.2	SLU 16	0.15807	1.0693	0.098	-0.0899	-0.0126	0.0054
86	1155	210	482.2	SLU 17	0.13013	0.00021	-0.07814	0	-0.0026	0
86	1155	210	482.2	SLU 18	0.22769	0.64159	0.10627	-0.054	-0.0151	0.0032
86	1155	210	482.2	SLU 19	-0.10039	1.06933	-0.19285	-0.0901	0.0102	0.0054
86	1155	210	482.2	SLU 20	0.10154	1.06926	0.00396	-0.0899	-0.006	0.0054
86	1155	210	482.2	SLU 21	0.07359	0.00016	-0.17218	0	0.0039	0
86	1155	210	482.2	SLU 22	0.17116	0.64163	0.01222	-0.054	-0.0085	0.0033
86	1155	210	482.2	SLU 23	-0.31966	0.00017	-0.59424	0	0.0376	0
86	1155	210	482.2	SLU 24	-0.22197	0.64169	-0.40983	-0.0541	0.0251	0.0032
86	1155	210	482.2	SLU 25	-0.11768	-0.00001	-0.39743	0	0.0213	0
86	1155	210	482.2	SLU 26	-0.02	0.64161	-0.21303	-0.054	0.0089	0.0032
86	1155	210	482.2	SLU 27	-0.19871	0.00004	-0.41363	0	0.0236	0
86	1155	210	482.2	SLU 28	-0.03599	1.06927	-0.10629	-0.09	0.0029	0.0054
86	1155	210	482.2	SLU 29	0.166	1.06933	0.09052	-0.09	-0.0133	0.0054
86	1155	210	482.2	SLU 30	0.13806	0.00025	-0.08563	0	-0.0034	0
86	1155	210	482.2	SLU 31	0.2356	0.64154	0.09878	-0.0539	-0.0158	0.0032
86	1155	210	482.2	SLU 32	-0.09246	1.06931	-0.20033	-0.0901	0.0095	0.0054
86	1155	210	482.2	SLU 33	0.10947	1.06929	-0.00353	-0.0899	-0.0067	0.0054
86	1155	210	482.2	SLU 34	0.08152	0.0002	-0.17967	0	0.0032	0
86	1155	210	482.2	SLU 35	0.17909	0.64158	0.00473	-0.054	-0.0093	0.0032
86	1155	210	482.2	SLU 36	-0.31174	0.00014	-0.60172	0	0.0368	0
86	1155	210	482.2	SLU 37	-0.21404	0.64165	-0.41732	-0.0541	0.0244	0.0032
86	1155	210	482.2	SLU 38	-0.10975	0.00003	-0.40492	0	0.0206	0
86	1155	210	482.2	SLU 39	-0.01213	0.64159	-0.22052	-0.054	0.0081	0.0033
86	1155	210	482.2	SLU 40	-0.25249	0.00009	-0.50159	0	0.0298	0
86	1155	210	482.2	SLU 41	-0.08972	1.0693	-0.19425	-0.0901	0.0091	0.0054
86	1155	210	482.2	SLU 42	0.11221	1.06929	0.00255	-0.0899	-0.0071	0.0054
86	1155	210	482.2	SLU 43	0.08426	0.0002	-0.17359	0	0.0028	0
86	1155	210	482.2	SLU 44	0.18183	0.64159	0.01082	-0.054	-0.0096	0.0032
86	1155	210	482.2	SLU 45	-0.14622	1.0693	-0.2883	-0.09	0.0157	0.0054
86	1155	210	482.2	SLU 46	0.05569	1.06928	-0.0915	-0.0899	-0.0005	0.0054
86	1155	210	482.2	SLU 47	0.02772	0.00015	-0.26764	0	0.0094	0
86	1155	210	482.2	SLU 48	0.1253	0.64162	-0.08323	-0.054	-0.0031	0.0033
86	1155	210	482.2	SLU 49	-0.36552	0.00018	-0.68969	0	0.043	0
86	1155	210	482.2	SLU 50	-0.26782	0.64171	-0.50528	-0.0541	0.0306	0.0032
86	1155	210	482.2	SLU 51	-0.16348	0.00001	-0.49288	0	0.0268	0
86	1155	210	482.2	SLU 52	-0.06586	0.64161	-0.30848	-0.054	0.0143	0.0032
86	1155	210	482.2	SLE RA 1	-0.18871	0.00006	-0.37682	0	0.0223	0
86	1155	210	482.2	SLE RA 2	-0.0802	0.71288	-0.17192	-0.06	0.0085	0.0036
86	1155	210	482.2	SLE RA 3	0.05442	0.71286	-0.04072	-0.06	-0.0023	0.0036
86	1155	210	482.2	SLE RA 4	0.03579	0.00013	-0.15815	0	0.0043	0
86	1155	210	482.2	SLE RA 5	0.10083	0.42772	-0.03521	-0.036	-0.004	0.0022
86	1155	210	482.2	SLE RA 6	-0.11784	0.71284	-0.23462	-0.06	0.0129	0.0036
86	1155	210	482.2	SLE RA 7	0.01676	0.71289	-0.10342	-0.06	0.0021	0.0036
86	1155	210	482.2	SLE RA 8	-0.00191	0.0001	-0.22085	0	0.0087	0
86	1155	210	482.2	SLE RA 9	0.06315	0.42774	-0.09791	-0.036	0.0004	0.0022
86	1155	210	482.2	SLE RA 10	-0.26406	0.00013	-0.50222	0	0.0311	0
86	1155	210	482.2	SLE RA 11	-0.19893	0.42782	-0.37928	-0.0361	0.0228	0.0022
86	1155	210	482.2	SLE RA 12	-0.12937	0.00001	-0.37101	0	0.0203	0
86	1155	210	482.2	SLE RA 13	-0.06429	0.42775	-0.24808	-0.036	0.012	0.0022
86	1155	210	482.2	SLE FR 1	-0.18871	0.00006	-0.37682	0	0.0223	0
86	1155	210	482.2	SLE FR 2	-0.16699	0.14265	-0.33584	-0.012	0.0196	0.0007
86	1155	210	482.2	SLE FR 3	-0.14381	0.00002	-0.33308	0	0.0187	0
86	1155	210	482.2	SLE FR 4	-0.20378	0.00008	-0.4019	0	0.0241	0
86	1155	210	482.2	SLE QP 1	-0.18871	0.00006	-0.37682	0	0.0223	0
86	1155	210	482.2	SLD 1	-0.40519	-0.83092	-0.39599	0.0822	0.0304	0.002
86	1155	210	482.2	SLD 2	-0.40519	-0.83092	-0.39599	0.0822	0.0304	0.002
86	1155	210	482.2	SLD 3	-0.49264	0.83161	-0.39904	-0.0822	0.0337	-0.002
86	1155	210	482.2	SLD 4	-0.49264	0.83161	-0.39904	-0.0822	0.0337	-0.002
86	1155	210	482.2	SLD 5	-0.12102	-2.76937	-0.37799	0.2737	0.0199	0.0068
86	1155	210	482.2	SLD 6	-0.12102	-2.76937	-0.37799	0.2737	0.0199	0.0068
86	1155	210	482.2	SLD 7	-0.41258	2.7717	-0.38813	-0.2738	0.0306	-0.0067
86	1155	210	482.2	SLD 8	-0.41258	2.7717	-0.38813	-0.2738	0.0306	-0.0067
86	1155	210	482.2	SLD 9	0.0351	-2.76936	-0.36557	0.2737	0.014	0.0068
86	1155	210	482.2	SLD 10	0.0351	-2.76936	-0.36557	0.2737	0.014	0.0068
86	1155	210	482.2	SLD 11	-0.25646	2.77169	-0.37572	-0.2738	0.0248	-0.0067
86	1155	210	482.2	SLD 12	-0.25646	2.77169	-0.37572	-0.2738	0.0248	-0.0067
86	1155	210	482.2	SLD 13	0.11516	-0.83085	-0.35462	0.0821	0.011	0.0021
86	1155	210	482.2	SLD 14	0.11516	-0.83085	-0.35462	0.0821	0.011	0.0021
86	1155	210	482.2	SLD 15	0.02775	0.83155	-0.35765	-0.0821	0.0142	-0.002
86	1155	210	482.2	SLD 16	0.02775	0.83155	-0.35765	-0.0821	0.0142	-0.002
86	1155	210	482.2	SLV 1	-0.7448	-2.1343	-0.42609	0.2111	0.0432	0.0052
86	1155	210	482.2	SLV 2	-0.7448	-2.1343	-0.42609	0.2111	0.0432	0.0052
86	1155	210	482.2	SLV 3	-0.9695	2.13609	-0.43392	-0.2111	0.0515	-0.0051
86	1155	210	482.2	SLV 4	-0.9695	2.13609	-0.43392	-0.2111	0.0515	-0.0051

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
86	1155	210	482.2	SLV 5	-0.01472	-7.11407	-0.37982	0.7032	0.016	0.0174
86	1155	210	482.2	SLV 6	-0.01472	-7.11407	-0.37982	0.7032	0.016	0.0174
86	1155	210	482.2	SLV 7	-0.7638	7.12005	-0.40589	-0.7032	0.0436	-0.0171
86	1155	210	482.2	SLV 8	-0.7638	7.12005	-0.40589	-0.7032	0.0436	-0.0171
86	1155	210	482.2	SLV 9	0.38632	-7.11405	-0.34793	0.7031	0.001	0.0174
86	1155	210	482.2	SLV 10	0.38632	-7.11405	-0.34793	0.7031	0.001	0.0174
86	1155	210	482.2	SLV 11	-0.36275	7.12004	-0.37399	-0.7031	0.0286	-0.0171
86	1155	210	482.2	SLV 12	-0.36275	7.12004	-0.37399	-0.7031	0.0286	-0.0171
86	1155	210	482.2	SLV 13	0.592	-2.13424	-0.31978	0.2109	-0.0068	0.0053
86	1155	210	482.2	SLV 14	0.592	-2.13424	-0.31978	0.2109	-0.0068	0.0053
86	1155	210	482.2	SLV 15	0.36734	2.13604	-0.32759	-0.2109	0.0015	-0.0052
86	1155	210	482.2	SLV 16	0.36734	2.13604	-0.32759	-0.2109	0.0015	-0.0052
86	1155	210	482.2	SLV FO 1	-0.7448	-2.1343	-0.42609	0.2111	0.0432	0.0052
86	1155	210	482.2	SLV FO 2	-0.7448	-2.1343	-0.42609	0.2111	0.0432	0.0052
86	1155	210	482.2	SLV FO 3	-0.9695	2.13609	-0.43392	-0.2111	0.0515	-0.0051
86	1155	210	482.2	SLV FO 4	-0.9695	2.13609	-0.43392	-0.2111	0.0515	-0.0051
86	1155	210	482.2	SLV FO 5	-0.01472	-7.11407	-0.37982	0.7032	0.016	0.0174
86	1155	210	482.2	SLV FO 6	-0.01472	-7.11407	-0.37982	0.7032	0.016	0.0174
86	1155	210	482.2	SLV FO 7	-0.7638	7.12005	-0.40589	-0.7032	0.0436	-0.0171
86	1155	210	482.2	SLV FO 8	-0.7638	7.12005	-0.40589	-0.7032	0.0436	-0.0171
86	1155	210	482.2	SLV FO 9	0.38632	-7.11405	-0.34793	0.7031	0.001	0.0174
86	1155	210	482.2	SLV FO 10	0.38632	-7.11405	-0.34793	0.7031	0.001	0.0174
86	1155	210	482.2	SLV FO 11	-0.36275	7.12004	-0.37399	-0.7031	0.0286	-0.0171
86	1155	210	482.2	SLV FO 12	-0.36275	7.12004	-0.37399	-0.7031	0.0286	-0.0171
86	1155	210	482.2	SLV FO 13	0.592	-2.13424	-0.31978	0.2109	-0.0068	0.0053
86	1155	210	482.2	SLV FO 14	0.592	-2.13424	-0.31978	0.2109	-0.0068	0.0053
86	1155	210	482.2	SLV FO 15	0.36734	2.13604	-0.32759	-0.2109	0.0015	-0.0052
86	1155	210	482.2	SLV FO 16	0.36734	2.13604	-0.32759	-0.2109	0.0015	-0.0052
87	1155	710	482.2	SLU 1	-0.16539	0	-0.3663	0	0.021	0
87	1155	710	482.2	SLU 2	0.09242	1.06883	0.24326	-0.1066	-0.0181	0.0075
87	1155	710	482.2	SLU 3	0.35096	1.0688	0.62275	-0.1067	-0.0454	0.0075
87	1155	710	482.2	SLU 4	0.26544	0	0.26619	0	-0.0245	0
87	1155	710	482.2	SLU 5	0.42022	0.64106	0.63193	-0.064	-0.048	0.0045
87	1155	710	482.2	SLU 6	0.01486	1.06883	0.05701	-0.1067	-0.0062	0.0074
87	1155	710	482.2	SLU 7	0.27345	1.06881	0.43651	-0.1066	-0.0335	0.0075
87	1155	710	482.2	SLU 8	0.18793	0	0.07995	0	-0.0126	0
87	1155	710	482.2	SLU 9	0.34268	0.64114	0.44569	-0.064	-0.0361	0.0045
87	1155	710	482.2	SLU 10	-0.32051	0	-0.7388	0	0.0448	0
87	1155	710	482.2	SLU 11	-0.16583	0.64128	-0.37306	-0.0639	0.0213	0.0044
87	1155	710	482.2	SLU 12	-0.06188	0	-0.35929	0	0.0175	0
87	1155	710	482.2	SLU 13	0.09281	0.64131	0.00645	-0.064	-0.006	0.0045
87	1155	710	482.2	SLU 14	-0.23907	0	-0.54047	0	0.0322	0
87	1155	710	482.2	SLU 15	0.01874	1.06883	0.0691	-0.1067	-0.0069	0.0074
87	1155	710	482.2	SLU 16	0.27733	1.0688	0.44859	-0.1066	-0.0342	0.0075
87	1155	710	482.2	SLU 17	0.19181	0	0.09203	0	-0.0133	0
87	1155	710	482.2	SLU 18	0.34656	0.64114	0.45777	-0.064	-0.0368	0.0045
87	1155	710	482.2	SLU 19	-0.05878	1.06882	-0.11715	-0.1066	0.005	0.0074
87	1155	710	482.2	SLU 20	0.19982	1.06881	0.26235	-0.1066	-0.0223	0.0075
87	1155	710	482.2	SLU 21	0.1143	0	-0.09421	0	-0.0014	0
87	1155	710	482.2	SLU 22	0.26901	0.64123	0.27152	-0.064	-0.0249	0.0045
87	1155	710	482.2	SLU 23	-0.39418	0	-0.91296	0	0.056	0
87	1155	710	482.2	SLU 24	-0.23951	0.64128	-0.54722	-0.0639	0.0325	0.0044
87	1155	710	482.2	SLU 25	-0.13551	0	-0.53345	0	0.0287	0
87	1155	710	482.2	SLU 26	0.01912	0.64135	-0.16771	-0.064	0.0052	0.0045
87	1155	710	482.2	SLU 27	-0.21501	0	-0.47619	0	0.0273	0
87	1155	710	482.2	SLU 28	0.04282	1.06884	0.13337	-0.1066	-0.0118	0.0075
87	1155	710	482.2	SLU 29	0.30136	1.0688	0.51286	-0.1067	-0.0391	0.0075
87	1155	710	482.2	SLU 30	0.21585	0	0.1563	0	-0.0182	0
87	1155	710	482.2	SLU 31	0.37062	0.64105	0.52204	-0.064	-0.0417	0.0045
87	1155	710	482.2	SLU 32	-0.03475	1.06883	-0.05287	-0.1066	0.0001	0.0074
87	1155	710	482.2	SLU 33	0.22385	1.06881	0.32662	-0.1066	-0.0272	0.0075
87	1155	710	482.2	SLU 34	0.13834	0	-0.02994	0	-0.0063	0
87	1155	710	482.2	SLU 35	0.29308	0.64115	0.3358	-0.064	-0.0298	0.0045
87	1155	710	482.2	SLU 36	-0.37013	0	-0.84869	0	0.0511	0
87	1155	710	482.2	SLU 37	-0.21544	0.64128	-0.48295	-0.0639	0.0276	0.0044
87	1155	710	482.2	SLU 38	-0.11147	0	-0.46918	0	0.0238	0
87	1155	710	482.2	SLU 39	0.04321	0.64132	-0.10344	-0.064	0.0003	0.0045
87	1155	710	482.2	SLU 40	-0.28869	0	-0.65036	0	0.0385	0
87	1155	710	482.2	SLU 41	-0.03087	1.06883	-0.04079	-0.1066	-0.0006	0.0074
87	1155	710	482.2	SLU 42	0.22773	1.06881	0.3387	-0.1066	-0.0279	0.0075
87	1155	710	482.2	SLU 43	0.14222	0	-0.01786	0	-0.007	0
87	1155	710	482.2	SLU 44	0.29696	0.64115	0.34788	-0.064	-0.0305	0.0045
87	1155	710	482.2	SLU 45	-0.10842	1.06878	-0.22704	-0.1066	0.0113	0.0074
87	1155	710	482.2	SLU 46	0.15021	1.06884	0.15246	-0.1066	-0.016	0.0075
87	1155	710	482.2	SLU 47	0.06471	0	-0.2041	0	0.0049	0
87	1155	710	482.2	SLU 48	0.21942	0.64123	0.16163	-0.064	-0.0186	0.0045
87	1155	710	482.2	SLU 49	-0.4438	0	-1.02285	0	0.0623	0
87	1155	710	482.2	SLU 50	-0.28912	0.6413	-0.65711	-0.0639	0.0388	0.0044
87	1155	710	482.2	SLU 51	-0.18524	0	-0.64334	0	0.035	0
87	1155	710	482.2	SLU 52	-0.03049	0.64135	-0.2776	-0.064	0.0115	0.0045
87	1155	710	482.2	SLE RA 1	-0.21451	0	-0.48241	0	0.0285	0
87	1155	710	482.2	SLE RA 2	-0.04262	0.71256	-0.07603	-0.0711	0.0024	0.005
87	1155	710	482.2	SLE RA 3	0.12978	0.71254	0.17696	-0.0711	-0.0158	0.005
87	1155	710	482.2	SLE RA 4	0.07277	0	-0.06075	0	-0.0019	0
87	1155	710	482.2	SLE RA 5	0.17593	0.42743	0.18308	-0.0427	-0.0175	0.003
87	1155	710	482.2	SLE RA 6	-0.09436	0.71249	-0.2002	-0.071	0.0103	0.0049
87	1155	710	482.2	SLE RA 7	0.07808	0.7126	0.0528	-0.0711	-0.0079	0.005
87	1155	710	482.2	SLE RA 8	0.0211	0	-0.18491	0	0.0061	0
87	1155	710	482.2	SLE RA 9	0.12424	0.42749	0.05892	-0.0427	-0.0096	0.003
87	1155	710	482.2	SLE RA 10	-0.31792	0	-0.73074	0	0.0443	0
87	1155	710	482.2	SLE RA 11	-0.2148	0.42754	-0.48692	-0.0426	0.0287	0.003
87	1155	710	482.2	SLE RA 12	-0.14554	0	-0.47774	0	0.0261	0
87	1155	710	482.2	SLE RA 13	-0.04237	0.42757	-0.23391	-0.0427	0.0105	0.003
87	1155	710	482.2	SLE FR 1	-0.21451	0	-0.48241	0	0.0285	0
87	1155	710	482.2	SLE FR 2	-0.18014	0.14253	-0.40114	-0.0142	0.0233	0.001
87	1155	710	482.2	SLE FR 3	-0.15705	0	-0.39808	0	0.0224	0
87	1155	710	482.2	SLE FR 4	-0.23519	0	-0.53208	0	0.0317	0
87	1155	710	482.2	SLE QP 1	-0.21451	0	-0.48241	0	0.0285	0
87	1155	710	482.2	SLD 1	-0.49955	-0.83108	-0.50713	0.0821	0.0392	0.002
87	1155	710	482.2	SLD 2	-0.49955	-0.83108	-0.50713	0.0821	0.0392	0.002
87	1155	710	482.2	SLD 3	-0.49955	0.83108	-0.50713	-0.0821	0.0392	-0.002
87	1155	710	482.2	SLD 4	-0.49955	0.83108	-0.50713	-0.0821	0.0392	-0.002
87	1155	710	482.2	SLD 5	-0.29987	-2.77046	-0.48988	0.2738	0.0317	0.0067

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
87	1155	710	482.2	SLD 6	-0.29987	-2.77046	-0.48988	0.2738	0.0317	0.0067
87	1155	710	482.2	SLD 7	-0.29987	2.77046	-0.48988	-0.2738	0.0317	-0.0067
87	1155	710	482.2	SLD 8	-0.29987	2.77046	-0.48988	-0.2738	0.0317	-0.0067
87	1155	710	482.2	SLD 9	-0.1288	-2.77052	-0.47505	0.2738	0.0253	0.0067
87	1155	710	482.2	SLD 10	-0.1288	-2.77052	-0.47505	0.2738	0.0253	0.0067
87	1155	710	482.2	SLD 11	-0.1288	2.77052	-0.47505	-0.2738	0.0253	-0.0067
87	1155	710	482.2	SLD 12	-0.1288	2.77052	-0.47505	-0.2738	0.0253	-0.0067
87	1155	710	482.2	SLD 13	0.07069	-0.83127	-0.45772	0.0822	0.0177	0.002
87	1155	710	482.2	SLD 14	0.07069	-0.83127	-0.45772	0.0822	0.0177	0.002
87	1155	710	482.2	SLD 15	0.07069	0.83127	-0.45772	-0.0822	0.0177	-0.002
87	1155	710	482.2	SLD 16	0.07069	0.83127	-0.45772	-0.0822	0.0177	-0.002
87	1155	710	482.2	SLV 1	-0.94676	-2.13483	-0.54592	0.2108	0.0561	0.0052
87	1155	710	482.2	SLV 2	-0.94676	-2.13483	-0.54592	0.2108	0.0561	0.0052
87	1155	710	482.2	SLV 3	-0.94676	2.13483	-0.54592	-0.2108	0.0561	-0.0052
87	1155	710	482.2	SLV 4	-0.94676	2.13483	-0.54592	-0.2108	0.0561	-0.0052
87	1155	710	482.2	SLV 5	-0.43388	-7.11696	-0.5016	0.7034	0.0368	0.0173
87	1155	710	482.2	SLV 6	-0.43388	-7.11696	-0.5016	0.7034	0.0368	0.0173
87	1155	710	482.2	SLV 7	-0.43388	7.11696	-0.5016	-0.7034	0.0368	-0.0173
87	1155	710	482.2	SLV 8	-0.43388	7.11696	-0.5016	-0.7034	0.0368	-0.0173
87	1155	710	482.2	SLV 9	0.00556	-7.11714	-0.46352	0.7036	0.0202	0.0173
87	1155	710	482.2	SLV 10	0.00556	-7.11714	-0.46352	0.7036	0.0202	0.0173
87	1155	710	482.2	SLV 11	0.00556	7.11714	-0.46352	-0.7036	0.0202	-0.0173
87	1155	710	482.2	SLV 12	0.00556	7.11714	-0.46352	-0.7036	0.0202	-0.0173
87	1155	710	482.2	SLV 13	0.51804	-2.13542	-0.41899	0.2113	0.0009	0.0052
87	1155	710	482.2	SLV 14	0.51804	-2.13542	-0.41899	0.2113	0.0009	0.0052
87	1155	710	482.2	SLV 15	0.51804	2.13542	-0.41899	-0.2113	0.0009	-0.0052
87	1155	710	482.2	SLV 16	0.51804	2.13542	-0.41899	-0.2113	0.0009	-0.0052
87	1155	710	482.2	SLV FO 1	-0.94676	-2.13483	-0.54592	0.2108	0.0561	0.0052
87	1155	710	482.2	SLV FO 2	-0.94676	-2.13483	-0.54592	0.2108	0.0561	0.0052
87	1155	710	482.2	SLV FO 3	-0.94676	2.13483	-0.54592	-0.2108	0.0561	-0.0052
87	1155	710	482.2	SLV FO 4	-0.94676	2.13483	-0.54592	-0.2108	0.0561	-0.0052
87	1155	710	482.2	SLV FO 5	-0.43388	-7.11696	-0.5016	0.7034	0.0368	0.0173
87	1155	710	482.2	SLV FO 6	-0.43388	-7.11696	-0.5016	0.7034	0.0368	0.0173
87	1155	710	482.2	SLV FO 7	-0.43388	7.11696	-0.5016	-0.7034	0.0368	-0.0173
87	1155	710	482.2	SLV FO 8	-0.43388	7.11696	-0.5016	-0.7034	0.0368	-0.0173
87	1155	710	482.2	SLV FO 9	0.00556	-7.11714	-0.46352	0.7036	0.0202	0.0173
87	1155	710	482.2	SLV FO 10	0.00556	-7.11714	-0.46352	0.7036	0.0202	0.0173
87	1155	710	482.2	SLV FO 11	0.00556	7.11714	-0.46352	-0.7036	0.0202	-0.0173
87	1155	710	482.2	SLV FO 12	0.00556	7.11714	-0.46352	-0.7036	0.0202	-0.0173
87	1155	710	482.2	SLV FO 13	0.51804	-2.13542	-0.41899	0.2113	0.0009	0.0052
87	1155	710	482.2	SLV FO 14	0.51804	-2.13542	-0.41899	0.2113	0.0009	0.0052
87	1155	710	482.2	SLV FO 15	0.51804	2.13542	-0.41899	-0.2113	0.0009	-0.0052
87	1155	710	482.2	SLV FO 16	0.51804	2.13542	-0.41899	-0.2113	0.0009	-0.0052
88	1155	1210	482.2	SLU 1	-0.15285	-0.00003	-0.31817	0	0.0182	0
88	1155	1210	482.2	SLU 2	0.06096	1.06836	-0.00979	-0.1067	-0.0045	0.0075
88	1155	1210	482.2	SLU 3	0.26307	1.06816	0.18701	-0.1065	-0.0207	0.0075
88	1155	1210	482.2	SLU 4	0.18393	-0.00026	0.00983	0	-0.0089	0
88	1155	1210	482.2	SLU 5	0.31223	0.64051	0.19486	-0.0639	-0.0225	0.0045
88	1155	1210	482.2	SLU 6	0.00442	1.06841	-0.10384	-0.1068	0.0021	0.0075
88	1155	1210	482.2	SLU 7	0.20652	1.06822	0.09296	-0.1065	-0.0141	0.0075
88	1155	1210	482.2	SLU 8	0.12739	-0.00021	-0.08422	0	-0.0023	0
88	1155	1210	482.2	SLU 9	0.25569	0.64064	0.10081	-0.0638	-0.0159	0.0045
88	1155	1210	482.2	SLU 10	-0.26588	-0.00013	-0.50627	0	0.0314	0
88	1155	1210	482.2	SLU 11	-0.13764	0.64111	-0.32124	-0.0641	0.0178	0.0045
88	1155	1210	482.2	SLU 12	-0.06388	-0.00004	-0.30947	0	0.0151	0
88	1155	1210	482.2	SLU 13	0.06443	0.64097	-0.12444	-0.0639	0.0015	0.0045
88	1155	1210	482.2	SLU 14	-0.20663	-0.00008	-0.40614	0	0.0244	0
88	1155	1210	482.2	SLU 15	0.00715	1.06841	-0.09776	-0.1067	0.0017	0.0075
88	1155	1210	482.2	SLU 16	0.20926	1.06822	0.09905	-0.1065	-0.0145	0.0075
88	1155	1210	482.2	SLU 17	0.13013	-0.00021	-0.07814	0	-0.0026	0
88	1155	1210	482.2	SLU 18	0.25842	0.64064	0.10689	-0.0638	-0.0162	0.0045
88	1155	1210	482.2	SLU 19	-0.04939	1.06845	-0.1918	-0.1068	0.0083	0.0075
88	1155	1210	482.2	SLU 20	0.15271	1.06827	0.005	-0.1066	-0.0079	0.0075
88	1155	1210	482.2	SLU 21	0.07359	-0.00016	-0.17218	0	0.0039	0
88	1155	1210	482.2	SLU 22	0.20191	0.64078	0.01285	-0.0639	-0.0097	0.0045
88	1155	1210	482.2	SLU 23	-0.31966	-0.00017	-0.59424	0	0.0376	0
88	1155	1210	482.2	SLU 24	-0.19142	0.64115	-0.4092	-0.064	0.024	0.0045
88	1155	1210	482.2	SLU 25	-0.11768	0.00001	-0.39743	0	0.0213	0
88	1155	1210	482.2	SLU 26	0.01063	0.64106	-0.2124	-0.064	0.0077	0.0045
88	1155	1210	482.2	SLU 27	-0.19871	-0.00004	-0.41363	0	0.0236	0
88	1155	1210	482.2	SLU 28	0.01509	1.06838	-0.10524	-0.1067	0.001	0.0075
88	1155	1210	482.2	SLU 29	0.2172	1.06818	0.09156	-0.1065	-0.0153	0.0075
88	1155	1210	482.2	SLU 30	0.13806	-0.00025	-0.08563	0	-0.0034	0
88	1155	1210	482.2	SLU 31	0.26636	0.64051	0.0994	-0.0639	-0.017	0.0045
88	1155	1210	482.2	SLU 32	-0.04145	1.06842	-0.19929	-0.1068	0.0076	0.0074
88	1155	1210	482.2	SLU 33	0.16065	1.06824	-0.00249	-0.1065	-0.0087	0.0075
88	1155	1210	482.2	SLU 34	0.08152	-0.0002	-0.17967	0	0.0032	0
88	1155	1210	482.2	SLU 35	0.20982	0.64065	0.00536	-0.0638	-0.0104	0.0045
88	1155	1210	482.2	SLU 36	-0.31174	-0.00014	-0.60172	0	0.0368	0
88	1155	1210	482.2	SLU 37	-0.18351	0.64113	-0.41669	-0.0641	0.0232	0.0045
88	1155	1210	482.2	SLU 38	-0.10975	-0.00003	-0.40492	0	0.0206	0
88	1155	1210	482.2	SLU 39	0.01856	0.64099	-0.21989	-0.0639	0.007	0.0045
88	1155	1210	482.2	SLU 40	-0.25249	-0.00009	-0.50159	0	0.0298	0
88	1155	1210	482.2	SLU 41	-0.03872	1.06842	-0.19321	-0.1068	0.0072	0.0074
88	1155	1210	482.2	SLU 42	0.16339	1.06823	0.0036	-0.1065	-0.009	0.0075
88	1155	1210	482.2	SLU 43	0.08426	-0.0002	-0.17359	0	0.0028	0
88	1155	1210	482.2	SLU 44	0.21255	0.64065	0.01144	-0.0638	-0.0108	0.0045
88	1155	1210	482.2	SLU 45	-0.09526	1.06842	-0.28726	-0.1068	0.0138	0.0074
88	1155	1210	482.2	SLU 46	0.10684	1.06831	-0.09045	-0.1066	-0.0025	0.0075
88	1155	1210	482.2	SLU 47	0.02772	-0.00015	-0.26764	0	0.0094	0
88	1155	1210	482.2	SLU 48	0.15604	0.64079	-0.0826	-0.0639	-0.0042	0.0045
88	1155	1210	482.2	SLU 49	-0.36552	-0.00018	-0.68969	0	0.043	0
88	1155	1210	482.2	SLU 50	-0.23729	0.64117	-0.50465	-0.0641	0.0294	0.0045
88	1155	1210	482.2	SLU 51	-0.16348	-0.00001	-0.49288	0	0.0268	0
88	1155	1210	482.2	SLU 52	-0.03524	0.64107	-0.30785	-0.064	0.0132	0.0045
88	1155	1210	482.2	SLE RA 1	-0.18871	-0.00006	-0.37682	0	0.0223	0
88	1155	1210	482.2	SLE RA 2	-0.0462	0.71229	-0.17123	-0.0712	0.0072	0.005
88	1155	1210	482.2	SLE RA 3	0.08854	0.71216	-0.04003	-0.071	-0.0036	0.005
88	1155	1210	482.2	SLE RA 4	0.03579	-0.00013	-0.15815	0	0.0043	0
88	1155	1210	482.2	SLE RA 5	0.12132	0.42711	-0.0348	-0.0426	-0.0048	0.003

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
88	1155	1210	482.2	SLE RA 6	-0.08388	0.71225	-0.23393	-0.0711	0.0116	0.005
88	1155	1210	482.2	SLE RA 7	0.05084	0.71224	-0.10273	-0.0711	0.0008	0.005
88	1155	1210	482.2	SLE RA 8	-0.00191	-0.0001	-0.22085	0	0.0087	0
88	1155	1210	482.2	SLE RA 9	0.08364	0.4272	-0.09749	-0.0426	-0.0004	0.003
88	1155	1210	482.2	SLE RA 10	-0.26406	-0.00013	-0.50222	0	0.0311	0
88	1155	1210	482.2	SLE RA 11	-0.17857	0.42745	-0.37886	-0.0427	0.022	0.003
88	1155	1210	482.2	SLE RA 12	-0.12937	-0.00001	-0.37101	0	0.0203	0
88	1155	1210	482.2	SLE RA 13	-0.04388	0.42739	-0.24766	-0.0427	0.0112	0.003
88	1155	1210	482.2	SLE FR 1	-0.18871	-0.00006	-0.37682	0	0.0223	0
88	1155	1210	482.2	SLE FR 2	-0.16021	0.14249	-0.3357	-0.0142	0.0193	0.001
88	1155	1210	482.2	SLE FR 3	-0.14381	-0.00002	-0.33308	0	0.0187	0
88	1155	1210	482.2	SLE FR 4	-0.20378	-0.00008	-0.4019	0	0.0241	0
88	1155	1210	482.2	SLE QP 1	-0.18871	-0.00006	-0.37682	0	0.0223	0
88	1155	1210	482.2	SLD 1	-0.49264	-0.83161	-0.39904	0.0822	0.0337	0.002
88	1155	1210	482.2	SLD 2	-0.49264	-0.83161	-0.39904	0.0822	0.0337	0.002
88	1155	1210	482.2	SLD 3	-0.40519	0.83092	-0.39599	-0.0822	0.0304	-0.002
88	1155	1210	482.2	SLD 4	-0.40519	0.83092	-0.39599	-0.0822	0.0304	-0.002
88	1155	1210	482.2	SLD 5	-0.41258	-2.7717	-0.38813	0.2738	0.0306	0.0067
88	1155	1210	482.2	SLD 6	-0.41258	-2.7717	-0.38813	0.2738	0.0306	0.0067
88	1155	1210	482.2	SLD 7	-0.12102	2.76937	-0.37799	-0.2737	0.0199	-0.0068
88	1155	1210	482.2	SLD 8	-0.12102	2.76937	-0.37799	-0.2737	0.0199	-0.0068
88	1155	1210	482.2	SLD 9	-0.25646	-2.77169	-0.37572	0.2738	0.0248	0.0067
88	1155	1210	482.2	SLD 10	-0.25646	-2.77169	-0.37572	0.2738	0.0248	0.0067
88	1155	1210	482.2	SLD 11	0.0351	2.76936	-0.36557	-0.2737	0.014	-0.0068
88	1155	1210	482.2	SLD 12	0.0351	2.76936	-0.36557	-0.2737	0.014	-0.0068
88	1155	1210	482.2	SLD 13	0.02775	-0.83155	-0.35765	0.0821	0.0142	0.002
88	1155	1210	482.2	SLD 14	0.02775	-0.83155	-0.35765	0.0821	0.0142	0.002
88	1155	1210	482.2	SLD 15	0.11516	0.83085	-0.35462	-0.0821	0.011	-0.0021
88	1155	1210	482.2	SLD 16	0.11516	0.83085	-0.35462	-0.0821	0.011	-0.0021
88	1155	1210	482.2	SLV 1	-0.9695	-2.13609	-0.43392	0.2111	0.0515	0.0051
88	1155	1210	482.2	SLV 2	-0.9695	-2.13609	-0.43392	0.2111	0.0515	0.0051
88	1155	1210	482.2	SLV 3	-0.7448	2.1343	-0.42609	-0.2111	0.0432	-0.0052
88	1155	1210	482.2	SLV 4	-0.7448	2.1343	-0.42609	-0.2111	0.0432	-0.0052
88	1155	1210	482.2	SLV 5	-0.7638	-7.12005	-0.40589	0.7032	0.0436	0.0171
88	1155	1210	482.2	SLV 6	-0.7638	-7.12005	-0.40589	0.7032	0.0436	0.0171
88	1155	1210	482.2	SLV 7	-0.01472	7.11407	-0.37982	-0.7032	0.016	-0.0174
88	1155	1210	482.2	SLV 8	-0.01472	7.11407	-0.37982	-0.7032	0.016	-0.0174
88	1155	1210	482.2	SLV 9	-0.36275	-7.12004	-0.37399	0.7031	0.0286	0.0171
88	1155	1210	482.2	SLV 10	-0.36275	-7.12004	-0.37399	0.7031	0.0286	0.0171
88	1155	1210	482.2	SLV 11	0.38632	7.11405	-0.34793	-0.7031	0.001	-0.0174
88	1155	1210	482.2	SLV 12	0.38632	7.11405	-0.34793	-0.7031	0.001	-0.0174
88	1155	1210	482.2	SLV 13	0.36734	-2.13604	-0.32759	0.2109	0.0015	0.0052
88	1155	1210	482.2	SLV 14	0.36734	-2.13604	-0.32759	0.2109	0.0015	0.0052
88	1155	1210	482.2	SLV 15	0.592	2.13424	-0.31978	-0.2109	-0.0068	-0.0053
88	1155	1210	482.2	SLV 16	0.592	2.13424	-0.31978	-0.2109	-0.0068	-0.0053
88	1155	1210	482.2	SLV FO 1	-0.9695	-2.13609	-0.43392	0.2111	0.0515	0.0051
88	1155	1210	482.2	SLV FO 2	-0.9695	-2.13609	-0.43392	0.2111	0.0515	0.0051
88	1155	1210	482.2	SLV FO 3	-0.7448	2.1343	-0.42609	-0.2111	0.0432	-0.0052
88	1155	1210	482.2	SLV FO 4	-0.7448	2.1343	-0.42609	-0.2111	0.0432	-0.0052
88	1155	1210	482.2	SLV FO 5	-0.7638	-7.12005	-0.40589	0.7032	0.0436	0.0171
88	1155	1210	482.2	SLV FO 6	-0.7638	-7.12005	-0.40589	0.7032	0.0436	0.0171
88	1155	1210	482.2	SLV FO 7	-0.01472	7.11407	-0.37982	-0.7032	0.016	-0.0174
88	1155	1210	482.2	SLV FO 8	-0.01472	7.11407	-0.37982	-0.7032	0.016	-0.0174
88	1155	1210	482.2	SLV FO 9	-0.36275	-7.12004	-0.37399	0.7031	0.0286	0.0171
88	1155	1210	482.2	SLV FO 10	-0.36275	-7.12004	-0.37399	0.7031	0.0286	0.0171
88	1155	1210	482.2	SLV FO 11	0.38632	7.11405	-0.34793	-0.7031	0.001	-0.0174
88	1155	1210	482.2	SLV FO 12	0.38632	7.11405	-0.34793	-0.7031	0.001	-0.0174
88	1155	1210	482.2	SLV FO 13	0.36734	-2.13604	-0.32759	0.2109	0.0015	0.0052
88	1155	1210	482.2	SLV FO 14	0.36734	-2.13604	-0.32759	0.2109	0.0015	0.0052
88	1155	1210	482.2	SLV FO 15	0.592	2.13424	-0.31978	-0.2109	-0.0068	-0.0053
88	1155	1210	482.2	SLV FO 16	0.592	2.13424	-0.31978	-0.2109	-0.0068	-0.0053
89	985	210	503.6	SLU 1	-0.14382	0.00003	-0.24758	0	0.0266	0
89	985	210	503.6	SLU 2	0.00842	1.08497	-0.02243	-0.0902	-0.0049	0.0061
89	985	210	503.6	SLU 3	0.20272	1.08498	0.11425	-0.0901	-0.0267	0.0062
89	985	210	503.6	SLU 4	0.18015	0.00025	-0.01978	0	-0.0099	0
89	985	210	503.6	SLU 5	0.27139	0.65094	0.11531	-0.054	-0.0288	0.0037
89	985	210	503.6	SLU 6	-0.04476	1.08509	-0.09072	-0.0902	0.0049	0.0061
89	985	210	503.6	SLU 7	0.14949	1.08494	0.04597	-0.0901	-0.017	0.0062
89	985	210	503.6	SLU 8	0.12691	0.00021	-0.08806	0	-0.0001	0
89	985	210	503.6	SLU 9	0.21818	0.65097	0.04703	-0.054	-0.019	0.0037
89	985	210	503.6	SLU 10	-0.25025	0.00013	-0.38415	0	0.0461	0
89	985	210	503.6	SLU 11	-0.15885	0.65116	-0.24906	-0.0542	0.0273	0.0037
89	985	210	503.6	SLU 12	-0.05594	0.00004	-0.24746	0	0.0242	0
89	985	210	503.6	SLU 13	0.03539	0.65097	-0.11237	-0.054	0.0054	0.0037
89	985	210	503.6	SLU 14	-0.1945	0.00008	-0.31132	0	0.0358	0
89	985	210	503.6	SLU 15	-0.04223	1.08508	-0.08618	-0.0902	0.0043	0.0061
89	985	210	503.6	SLU 16	0.15202	1.08494	0.05051	-0.0901	-0.0176	0.0062
89	985	210	503.6	SLU 17	0.12944	0.00021	-0.08352	0	-0.0007	0
89	985	210	503.6	SLU 18	0.22072	0.65097	0.05157	-0.054	-0.0196	0.0037
89	985	210	503.6	SLU 19	-0.09545	1.08514	-0.15447	-0.0902	0.0141	0.0061
89	985	210	503.6	SLU 20	0.09879	1.08489	-0.01777	-0.0901	-0.0078	0.0062
89	985	210	503.6	SLU 21	0.0762	0.00016	-0.15181	0	0.009	0
89	985	210	503.6	SLU 22	0.16749	0.65101	-0.01671	-0.0541	-0.0098	0.0037
89	985	210	503.6	SLU 23	-0.30093	0.00018	-0.44789	-0.0001	0.0553	0
89	985	210	503.6	SLU 24	-0.20953	0.65119	-0.31281	-0.0542	0.0364	0.0037
89	985	210	503.6	SLU 25	-0.10664	0	-0.3112	0	0.0334	0
89	985	210	503.6	SLU 26	-0.01525	0.65104	-0.17612	-0.0541	0.0145	0.0037
89	985	210	503.6	SLU 27	-0.18697	0.00004	-0.32185	0	0.0346	0
89	985	210	503.6	SLU 28	-0.03474	1.08498	-0.09671	-0.0902	0.0031	0.0061
89	985	210	503.6	SLU 29	0.15957	1.08498	0.03998	-0.0901	-0.0188	0.0062
89	985	210	503.6	SLU 30	0.13699	0.00024	-0.09405	0	-0.0019	0
89	985	210	503.6	SLU 31	0.22823	0.65092	0.04104	-0.054	-0.0208	0.0037
89	985	210	503.6	SLU 32	-0.08791	1.08511	-0.16499	-0.0902	0.0129	0.0061
89	985	210	503.6	SLU 33	0.10633	1.08493	-0.0283	-0.0901	-0.009	0.0062
89	985	210	503.6	SLU 34	0.08375	0.0002	-0.16234	0	0.0079	0
89	985	210	503.6	SLU 35	0.17503	0.65097	-0.02724	-0.054	-0.011	0.0037
89	985	210	503.6	SLU 36	-0.2934	0.00014	-0.45842	0	0.0541	0
89	985	210	503.6	SLU 37	-0.202	0.65119	-0.32333	-0.0542	0.0352	0.0037
89	985	210	503.6	SLU 38	-0.0991	0.00003	-0.32173	0	0.0322	0
89	985	210	503.6	SLU 39	-0.00777	0.65097	-0.18664	-0.054	0.0134	0.0037
89	985	210	503.6	SLU 40	-0.23765	0.00009	-0.3856	0	0.0437	0
89	985	210	503.6	SLU 41	-0.08537	1.08511	-0.16045	-0.0902	0.0123	0.0061
89	985	210	503.6	SLU 42	0.10887	1.08493	-0.02376	-0.0901	-0.0096	0.0062

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
89	985	210	503.6	SLU 43	0.08629	0.0002	-0.1578	0	0.0073	0
89	985	210	503.6	SLU 44	0.17756	0.65097	-0.0227	-0.054	-0.0116	0.0037
89	985	210	503.6	SLU 45	-0.13857	1.08514	-0.22874	-0.0902	0.0221	0.0061
89	985	210	503.6	SLU 46	0.05565	1.08492	-0.09205	-0.0901	0.0002	0.0062
89	985	210	503.6	SLU 47	0.03305	0.00015	-0.22608	0	0.017	0
89	985	210	503.6	SLU 48	0.12433	0.651	-0.09098	-0.0541	-0.0018	0.0037
89	985	210	503.6	SLU 49	-0.34408	0.00019	-0.52217	-0.0001	0.0633	0
89	985	210	503.6	SLU 50	-0.25268	0.65122	-0.38708	-0.0542	0.0444	0.0037
89	985	210	503.6	SLU 51	-0.14973	0.00002	-0.38548	0	0.0414	0
89	985	210	503.6	SLU 52	-0.0584	0.65106	-0.25039	-0.0541	0.0225	0.0037
89	985	210	503.6	SLE RA 1	-0.17761	0.00006	-0.29008	0	0.0327	0
89	985	210	503.6	SLE RA 2	-0.07609	0.72342	-0.13998	-0.0601	0.0117	0.0041
89	985	210	503.6	SLE RA 3	0.0534	0.72329	-0.04885	-0.06	-0.0029	0.0041
89	985	210	503.6	SLE RA 4	0.03834	0.00013	-0.13821	0	0.0084	0
89	985	210	503.6	SLE RA 5	0.09919	0.43398	-0.04815	-0.036	-0.0042	0.0025
89	985	210	503.6	SLE RA 6	-0.11153	0.72341	-0.1855	-0.0601	0.0183	0.0041
89	985	210	503.6	SLE RA 7	0.01794	0.72334	-0.09438	-0.06	0.0037	0.0041
89	985	210	503.6	SLE RA 8	0.00285	0.00009	-0.18373	0	0.0149	0
89	985	210	503.6	SLE RA 9	0.06371	0.434	-0.09367	-0.036	0.0023	0.0025
89	985	210	503.6	SLE RA 10	-0.24856	0.00013	-0.38112	0	0.0457	0
89	985	210	503.6	SLE RA 11	-0.18763	0.43415	-0.29106	-0.0362	0.0331	0.0024
89	985	210	503.6	SLE RA 12	-0.119	0.00001	-0.29	0	0.0311	0
89	985	210	503.6	SLE RA 13	-0.05811	0.43404	-0.19994	-0.0361	0.0186	0.0025
89	985	210	503.6	SLE FR 1	-0.17761	0.00006	-0.29008	0	0.0327	0
89	985	210	503.6	SLE FR 2	-0.1573	0.14475	-0.26006	-0.0121	0.0285	0.0008
89	985	210	503.6	SLE FR 3	-0.13442	0.00003	-0.2597	0	0.0278	0
89	985	210	503.6	SLE FR 4	-0.1918	0.00008	-0.30829	0	0.0353	0
89	985	210	503.6	SLE QP 1	-0.17761	0.00006	-0.29008	0	0.0327	0
89	985	210	503.6	SLD 1	-0.3913	-0.86595	-0.2864	0.082	0.0388	0.0013
89	985	210	503.6	SLD 2	-0.3913	-0.86595	-0.2864	0.082	0.0388	0.0013
89	985	210	503.6	SLD 3	-0.4776	0.86659	-0.28074	-0.082	0.0411	-0.0013
89	985	210	503.6	SLD 4	-0.4776	0.86659	-0.28074	-0.082	0.0411	-0.0013
89	985	210	503.6	SLD 5	-0.11082	-2.88615	-0.29759	0.2729	0.0312	0.0045
89	985	210	503.6	SLD 6	-0.11082	-2.88615	-0.29759	0.2729	0.0312	0.0045
89	985	210	503.6	SLD 7	-0.39853	2.88827	-0.2787	-0.2728	0.0385	-0.0045
89	985	210	503.6	SLD 8	-0.39853	2.88827	-0.2787	-0.2728	0.0385	-0.0045
89	985	210	503.6	SLD 9	0.04327	-2.88615	-0.3015	0.2729	0.0269	0.0045
89	985	210	503.6	SLD 10	0.04327	-2.88615	-0.3015	0.2729	0.0269	0.0045
89	985	210	503.6	SLD 11	-0.24444	2.88827	-0.28261	-0.2728	0.0342	-0.0045
89	985	210	503.6	SLD 12	-0.24444	2.88827	-0.28261	-0.2728	0.0342	-0.0045
89	985	210	503.6	SLD 13	0.12232	-0.86593	-0.29943	0.0818	0.0243	0.0014
89	985	210	503.6	SLD 14	0.12232	-0.86593	-0.29943	0.0818	0.0243	0.0014
89	985	210	503.6	SLD 15	0.03605	0.86657	-0.29376	-0.0818	0.0265	-0.0014
89	985	210	503.6	SLD 16	0.03605	0.86657	-0.29376	-0.0818	0.0265	-0.0014
89	985	210	503.6	SLV 1	-0.72652	-2.22427	-0.28064	0.2104	0.0485	0.0035
89	985	210	503.6	SLV 2	-0.72652	-2.22427	-0.28064	0.2104	0.0485	0.0035
89	985	210	503.6	SLV 3	-0.94825	2.22591	-0.2661	-0.2104	0.0542	-0.0034
89	985	210	503.6	SLV 4	-0.94825	2.22591	-0.2661	-0.2104	0.0542	-0.0034
89	985	210	503.6	SLV 5	-0.00594	-7.41399	-0.30939	0.701	0.0289	0.0116
89	985	210	503.6	SLV 6	-0.00594	-7.41399	-0.30939	0.701	0.0289	0.0116
89	985	210	503.6	SLV 7	-0.74514	7.41944	-0.26086	-0.7007	0.0477	-0.0114
89	985	210	503.6	SLV 8	-0.74514	7.41944	-0.26086	-0.7007	0.0477	-0.0114
89	985	210	503.6	SLV 9	0.38991	-7.414	-0.31943	0.7009	0.0177	0.0116
89	985	210	503.6	SLV 10	0.38991	-7.414	-0.31943	0.7009	0.0177	0.0116
89	985	210	503.6	SLV 11	-0.34928	7.41945	-0.2709	-0.7006	0.0366	-0.0114
89	985	210	503.6	SLV 12	-0.34928	7.41945	-0.2709	-0.7006	0.0366	-0.0114
89	985	210	503.6	SLV 13	0.59297	-2.22429	-0.3141	0.2102	0.0112	0.0035
89	985	210	503.6	SLV 14	0.59297	-2.22429	-0.3141	0.2102	0.0112	0.0035
89	985	210	503.6	SLV 15	0.37127	2.22593	-0.29954	-0.2101	0.0169	-0.0035
89	985	210	503.6	SLV 16	0.37127	2.22593	-0.29954	-0.2101	0.0169	-0.0035
89	985	210	503.6	SLV FO 1	-0.72652	-2.22427	-0.28064	0.2104	0.0485	0.0035
89	985	210	503.6	SLV FO 2	-0.72652	-2.22427	-0.28064	0.2104	0.0485	0.0035
89	985	210	503.6	SLV FO 3	-0.94825	2.22591	-0.2661	-0.2104	0.0542	-0.0034
89	985	210	503.6	SLV FO 4	-0.94825	2.22591	-0.2661	-0.2104	0.0542	-0.0034
89	985	210	503.6	SLV FO 5	-0.00594	-7.41399	-0.30939	0.701	0.0289	0.0116
89	985	210	503.6	SLV FO 6	-0.00594	-7.41399	-0.30939	0.701	0.0289	0.0116
89	985	210	503.6	SLV FO 7	-0.74514	7.41944	-0.26086	-0.7007	0.0477	-0.0114
89	985	210	503.6	SLV FO 8	-0.74514	7.41944	-0.26086	-0.7007	0.0477	-0.0114
89	985	210	503.6	SLV FO 9	0.38991	-7.414	-0.31943	0.7009	0.0177	0.0116
89	985	210	503.6	SLV FO 10	0.38991	-7.414	-0.31943	0.7009	0.0177	0.0116
89	985	210	503.6	SLV FO 11	-0.34928	7.41945	-0.2709	-0.7006	0.0366	-0.0114
89	985	210	503.6	SLV FO 12	-0.34928	7.41945	-0.2709	-0.7006	0.0366	-0.0114
89	985	210	503.6	SLV FO 13	0.59297	-2.22429	-0.3141	0.2102	0.0112	0.0035
89	985	210	503.6	SLV FO 14	0.59297	-2.22429	-0.3141	0.2102	0.0112	0.0035
89	985	210	503.6	SLV FO 15	0.37127	2.22593	-0.29954	-0.2101	0.0169	-0.0035
89	985	210	503.6	SLV FO 16	0.37127	2.22593	-0.29954	-0.2101	0.0169	-0.0035
90	985	710	503.6	SLU 1	-0.15484	0	-0.28379	0	0.0313	0
90	985	710	503.6	SLU 2	0.08272	1.08454	0.16795	-0.1014	-0.0299	0.0076
90	985	710	503.6	SLU 3	0.32765	1.0844	0.44167	-0.1014	-0.0697	0.0076
90	985	710	503.6	SLU 4	0.25332	0	0.17241	0	-0.0351	0
90	985	710	503.6	SLU 5	0.39594	0.65042	0.44345	-0.0608	-0.0718	0.0046
90	985	710	503.6	SLU 6	0.01132	1.08464	0.02974	-0.1014	-0.0112	0.0076
90	985	710	503.6	SLU 7	0.25631	1.08441	0.30345	-0.1014	-0.0511	0.0076
90	985	710	503.6	SLU 8	0.18198	0	0.03419	0	-0.0165	0
90	985	710	503.6	SLU 9	0.32457	0.6505	0.30524	-0.0608	-0.0532	0.0046
90	985	710	503.6	SLU 10	-0.29761	0	-0.56023	0	0.0686	0
90	985	710	503.6	SLU 11	-0.1551	0.65081	-0.28918	-0.0607	0.0319	0.0045
90	985	710	503.6	SLU 12	-0.05259	0	-0.28651	0	0.0287	0
90	985	710	503.6	SLU 13	0.08994	0.65067	-0.01546	-0.0608	-0.008	0.0046
90	985	710	503.6	SLU 14	-0.22272	0	-0.41286	0	0.0488	0
90	985	710	503.6	SLU 15	0.01482	1.08463	0.03889	-0.1014	-0.0124	0.0076
90	985	710	503.6	SLU 16	0.25981	1.08441	0.3126	-0.1014	-0.0522	0.0076
90	985	710	503.6	SLU 17	0.18548	0	0.04334	0	-0.0176	0
90	985	710	503.6	SLU 18	0.32807	0.6505	0.31439	-0.0608	-0.0543	0.0046
90	985	710	503.6	SLU 19	-0.05653	1.08464	-0.09933	-0.1014	0.0063	0.0075
90	985	710	503.6	SLU 20	0.18847	1.08442	0.17438	-0.1013	-0.0336	0.0076
90	985	710	503.6	SLU 21	0.11414	0	-0.09488	0	0.001	0
90	985	710	503.6	SLU 22	0.25669	0.65059	0.17617	-0.0609	-0.0357	0.0046
90	985	710	503.6	SLU 23	-0.3655	0	-0.6893	0	0.0861	0
90	985	710	503.6	SLU 24	-0.22298	0.65079	-0.41825	-0.0607	0.0494	0.0045

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
90	985	710	503.6	SLU 25	-0.12044	0	-0.41558	0	0.0462	0
90	985	710	503.6	SLU 26	0.02204	0.65079	-0.14453	-0.0608	0.0095	0.0045
90	985	710	503.6	SLU 27	-0.20129	0	-0.36893	0	0.0407	0
90	985	710	503.6	SLU 28	0.03628	1.08456	0.08282	-0.1014	-0.0205	0.0076
90	985	710	503.6	SLU 29	0.28122	1.08441	0.35653	-0.1014	-0.0603	0.0076
90	985	710	503.6	SLU 30	0.20689	0	0.08727	0	-0.0257	0
90	985	710	503.6	SLU 31	0.34951	0.65041	0.35832	-0.0608	-0.0624	0.0046
90	985	710	503.6	SLU 32	-0.03512	1.08465	-0.0554	-0.1014	-0.0018	0.0076
90	985	710	503.6	SLU 33	0.20988	1.08442	0.21831	-0.1013	-0.0417	0.0076
90	985	710	503.6	SLU 34	0.13555	0	-0.05094	0	-0.0071	0
90	985	710	503.6	SLU 35	0.27814	0.65051	0.2201	-0.0608	-0.0438	0.0046
90	985	710	503.6	SLU 36	-0.34406	0	-0.64537	0	0.078	0
90	985	710	503.6	SLU 37	-0.20154	0.65082	-0.37432	-0.0607	0.0413	0.0045
90	985	710	503.6	SLU 38	-0.09902	0	-0.37165	0	0.0381	0
90	985	710	503.6	SLU 39	0.04351	0.65068	-0.1006	-0.0608	0.0014	0.0046
90	985	710	503.6	SLU 40	-0.26917	0	-0.498	0	0.0582	0
90	985	710	503.6	SLU 41	-0.03162	1.08465	-0.04625	-0.1014	-0.003	0.0076
90	985	710	503.6	SLU 42	0.21338	1.08442	0.22746	-0.1014	-0.0428	0.0076
90	985	710	503.6	SLU 43	0.13905	0	-0.0418	0	-0.0083	0
90	985	710	503.6	SLU 44	0.28164	0.65051	0.22925	-0.0608	-0.0449	0.0046
90	985	710	503.6	SLU 45	-0.103	1.08463	-0.18447	-0.1013	0.0156	0.0075
90	985	710	503.6	SLU 46	0.14202	1.08446	0.08924	-0.1013	-0.0242	0.0076
90	985	710	503.6	SLU 47	0.06771	0	-0.18002	0	0.0104	0
90	985	710	503.6	SLU 48	0.21026	0.65059	0.09103	-0.0609	-0.0263	0.0046
90	985	710	503.6	SLU 49	-0.41195	0	-0.77444	0	0.0954	0
90	985	710	503.6	SLU 50	-0.26942	0.6508	-0.50339	-0.0607	0.0587	0.0045
90	985	710	503.6	SLU 51	-0.167	0	-0.50071	0	0.0556	0
90	985	710	503.6	SLU 52	-0.0244	0.6508	-0.22967	-0.0608	0.0189	0.0045
90	985	710	503.6	SLE RA 1	-0.20009	0	-0.36984	0	0.0429	0
90	985	710	503.6	SLE RA 2	-0.04172	0.72311	-0.06867	-0.0676	0.0022	0.005
90	985	710	503.6	SLE RA 3	0.12162	0.72295	0.1138	-0.0676	-0.0244	0.0051
90	985	710	503.6	SLE RA 4	0.07207	0	-0.0657	0	-0.0013	0
90	985	710	503.6	SLE RA 5	0.16712	0.43367	0.11499	-0.0406	-0.0258	0.003
90	985	710	503.6	SLE RA 6	-0.08934	0.72307	-0.16082	-0.0675	0.0146	0.005
90	985	710	503.6	SLE RA 7	0.07403	0.72303	0.02166	-0.0676	-0.012	0.0051
90	985	710	503.6	SLE RA 8	0.02451	0	-0.15785	0	0.0111	0
90	985	710	503.6	SLE RA 9	0.11954	0.43373	0.02285	-0.0406	-0.0134	0.003
90	985	710	503.6	SLE RA 10	-0.29528	0	-0.55413	0	0.0678	0
90	985	710	503.6	SLE RA 11	-0.20026	0.43387	-0.37343	-0.0404	0.0433	0.003
90	985	710	503.6	SLE RA 12	-0.13198	0	-0.37164	0	0.0412	0
90	985	710	503.6	SLE RA 13	-0.03691	0.43388	-0.19095	-0.0405	0.0168	0.003
90	985	710	503.6	SLE FR 1	-0.20009	0	-0.36984	0	0.0429	0
90	985	710	503.6	SLE FR 2	-0.16842	0.14464	-0.3096	-0.0135	0.0348	0.001
90	985	710	503.6	SLE FR 3	-0.14566	0	-0.30901	0	0.0341	0
90	985	710	503.6	SLE FR 4	-0.21913	0	-0.4067	0	0.0479	0
90	985	710	503.6	SLE QP 1	-0.20009	0	-0.36984	0	0.0429	0
90	985	710	503.6	SLD 1	-0.48139	-0.8661	-0.36437	0.0818	0.0511	0.0013
90	985	710	503.6	SLD 2	-0.48139	-0.8661	-0.36437	0.0818	0.0511	0.0013
90	985	710	503.6	SLD 3	-0.48139	0.8661	-0.36437	-0.0818	0.0511	-0.0013
90	985	710	503.6	SLD 4	-0.48139	0.8661	-0.36437	-0.0818	0.0511	-0.0013
90	985	710	503.6	SLD 5	-0.28431	-2.88719	-0.36825	0.2729	0.0454	0.0045
90	985	710	503.6	SLD 6	-0.28431	-2.88719	-0.36825	0.2729	0.0454	0.0045
90	985	710	503.6	SLD 7	-0.28431	2.88719	-0.36825	-0.2729	0.0454	-0.0045
90	985	710	503.6	SLD 8	-0.28431	2.88719	-0.36825	-0.2729	0.0454	-0.0045
90	985	710	503.6	SLD 9	-0.11549	-2.88726	-0.37154	0.2729	0.0405	0.0045
90	985	710	503.6	SLD 10	-0.11549	-2.88726	-0.37154	0.2729	0.0405	0.0045
90	985	710	503.6	SLD 11	-0.11549	2.88726	-0.37154	-0.2729	0.0405	-0.0045
90	985	710	503.6	SLD 12	-0.11549	2.88726	-0.37154	-0.2729	0.0405	-0.0045
90	985	710	503.6	SLD 13	0.08137	-0.86634	-0.37534	0.0819	0.0348	0.0013
90	985	710	503.6	SLD 14	0.08137	-0.86634	-0.37534	0.0819	0.0348	0.0013
90	985	710	503.6	SLD 15	0.08137	0.86634	-0.37534	-0.0819	0.0348	-0.0013
90	985	710	503.6	SLD 16	0.08137	0.86634	-0.37534	-0.0819	0.0348	-0.0013
90	985	710	503.6	SLV 1	-0.92272	-2.22476	-0.35579	0.21	0.0638	0.0035
90	985	710	503.6	SLV 2	-0.92272	-2.22476	-0.35579	0.21	0.0638	0.0035
90	985	710	503.6	SLV 3	-0.92272	2.22476	-0.35579	-0.21	0.0638	-0.0035
90	985	710	503.6	SLV 4	-0.92272	2.22476	-0.35579	-0.21	0.0638	-0.0035
90	985	710	503.6	SLV 5	-0.41653	-7.41676	-0.36576	0.7011	0.0492	0.0115
90	985	710	503.6	SLV 6	-0.41653	-7.41676	-0.36576	0.7011	0.0492	0.0115
90	985	710	503.6	SLV 7	-0.41653	7.41676	-0.36576	-0.7011	0.0492	-0.0115
90	985	710	503.6	SLV 8	-0.41653	7.41676	-0.36576	-0.7011	0.0492	-0.0115
90	985	710	503.6	SLV 9	0.01715	-7.41696	-0.37421	0.7013	0.0367	0.0114
90	985	710	503.6	SLV 10	0.01715	-7.41696	-0.37421	0.7013	0.0367	0.0114
90	985	710	503.6	SLV 11	0.01715	7.41696	-0.37421	-0.7013	0.0367	-0.0114
90	985	710	503.6	SLV 12	0.01715	7.41696	-0.37421	-0.7013	0.0367	-0.0114
90	985	710	503.6	SLV 13	0.52286	-2.22543	-0.38398	0.2106	0.0221	0.0034
90	985	710	503.6	SLV 14	0.52286	-2.22543	-0.38398	0.2106	0.0221	0.0034
90	985	710	503.6	SLV 15	0.52286	2.22543	-0.38398	-0.2106	0.0221	-0.0034
90	985	710	503.6	SLV 16	0.52286	2.22543	-0.38398	-0.2106	0.0221	-0.0034
90	985	710	503.6	SLV FO 1	-0.92272	-2.22476	-0.35579	0.21	0.0638	0.0035
90	985	710	503.6	SLV FO 2	-0.92272	-2.22476	-0.35579	0.21	0.0638	0.0035
90	985	710	503.6	SLV FO 3	-0.92272	2.22476	-0.35579	-0.21	0.0638	-0.0035
90	985	710	503.6	SLV FO 4	-0.92272	2.22476	-0.35579	-0.21	0.0638	-0.0035
90	985	710	503.6	SLV FO 5	-0.41653	-7.41676	-0.36576	0.7011	0.0492	0.0115
90	985	710	503.6	SLV FO 6	-0.41653	-7.41676	-0.36576	0.7011	0.0492	0.0115
90	985	710	503.6	SLV FO 7	-0.41653	7.41676	-0.36576	-0.7011	0.0492	-0.0115
90	985	710	503.6	SLV FO 8	-0.41653	7.41676	-0.36576	-0.7011	0.0492	-0.0115
90	985	710	503.6	SLV FO 9	0.01715	-7.41696	-0.37421	0.7013	0.0367	0.0114
90	985	710	503.6	SLV FO 10	0.01715	-7.41696	-0.37421	0.7013	0.0367	0.0114
90	985	710	503.6	SLV FO 11	0.01715	7.41696	-0.37421	-0.7013	0.0367	-0.0114
90	985	710	503.6	SLV FO 12	0.01715	7.41696	-0.37421	-0.7013	0.0367	-0.0114
90	985	710	503.6	SLV FO 13	0.52286	-2.22543	-0.38398	0.2106	0.0221	0.0034
90	985	710	503.6	SLV FO 14	0.52286	-2.22543	-0.38398	0.2106	0.0221	0.0034
90	985	710	503.6	SLV FO 15	0.52286	2.22543	-0.38398	-0.2106	0.0221	-0.0034
90	985	710	503.6	SLV FO 16	0.52286	2.22543	-0.38398	-0.2106	0.0221	-0.0034
91	985	1210	503.6	SLU 1	-0.14382	-0.00003	-0.24758	0	0.0266	0
91	985	1210	503.6	SLU 2	0.05878	1.08408	-0.02653	-0.1015	-0.0061	0.0076
91	985	1210	503.6	SLU 3	0.25319	1.08376	0.11015	-0.1012	-0.028	0.0076
91	985	1210	503.6	SLU 4	0.18015	-0.00025	-0.01978	0	-0.0099	0
91	985	1210	503.6	SLU 5	0.30172	0.64986	0.11285	-0.0607	-0.0295	0.0045
91	985	1210	503.6	SLU 6	0.00553	1.08422	-0.09481	-0.1016	0.0036	0.0076
91	985	1210	503.6	SLU 7	0.19995	1.08382	0.04187	-0.1013	-0.0183	0.0076
91	985	1210	503.6	SLU 8	0.12691	-0.00021	-0.08806	0	-0.0001	0
91	985	1210	503.6	SLU 9	0.24847	0.65	0.04457	-0.0607	-0.0198	0.0045

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
91	985	1210	503.6	SLU 10	-0.25025	-0.00013	-0.38415	0	0.0461	0
91	985	1210	503.6	SLU 11	-0.12874	0.65064	-0.25151	-0.061	0.0265	0.0045
91	985	1210	503.6	SLU 12	-0.05594	-0.00004	-0.24746	0	0.0242	0
91	985	1210	503.6	SLU 13	0.06565	0.65033	-0.11483	-0.0608	0.0046	0.0046
91	985	1210	503.6	SLU 14	-0.1945	-0.00008	-0.31132	0	0.0358	0
91	985	1210	503.6	SLU 15	0.00807	1.08422	-0.09027	-0.1015	0.003	0.0076
91	985	1210	503.6	SLU 16	0.20248	1.08382	0.04641	-0.1013	-0.0189	0.0076
91	985	1210	503.6	SLU 17	0.12944	-0.00021	-0.08352	0	-0.0007	0
91	985	1210	503.6	SLU 18	0.25101	0.64999	0.0491	-0.0607	-0.0204	0.0045
91	985	1210	503.6	SLU 19	-0.04518	1.08427	-0.15855	-0.1016	0.0128	0.0076
91	985	1210	503.6	SLU 20	0.14924	1.08388	-0.02188	-0.1013	-0.0091	0.0076
91	985	1210	503.6	SLU 21	0.0762	-0.00016	-0.15181	0	0.009	0
91	985	1210	503.6	SLU 22	0.1978	0.65013	-0.01918	-0.0607	-0.0106	0.0045
91	985	1210	503.6	SLU 23	-0.30093	-0.00018	-0.44789	0.0001	0.0553	0
91	985	1210	503.6	SLU 24	-0.17942	0.65065	-0.31526	-0.0609	0.0357	0.0045
91	985	1210	503.6	SLU 25	-0.10664	0	-0.3112	0	0.0334	0
91	985	1210	503.6	SLU 26	0.01494	0.65049	-0.17858	-0.0609	0.0138	0.0045
91	985	1210	503.6	SLU 27	-0.18697	-0.00004	-0.32185	0	0.0346	0
91	985	1210	503.6	SLU 28	0.01561	1.0841	-0.1008	-0.1015	0.0018	0.0076
91	985	1210	503.6	SLU 29	0.21003	1.08378	0.03588	-0.1013	-0.02	0.0076
91	985	1210	503.6	SLU 30	0.13699	-0.00024	-0.09405	0	-0.0019	0
91	985	1210	503.6	SLU 31	0.25856	0.64987	0.03857	-0.0607	-0.0216	0.0045
91	985	1210	503.6	SLU 32	-0.03763	1.08424	-0.16908	-0.1016	0.0116	0.0076
91	985	1210	503.6	SLU 33	0.15679	1.08384	-0.03241	-0.1013	-0.0103	0.0076
91	985	1210	503.6	SLU 34	0.08375	-0.0002	-0.16234	0	0.0079	0
91	985	1210	503.6	SLU 35	0.20531	0.65001	-0.02971	-0.0607	-0.0118	0.0045
91	985	1210	503.6	SLU 36	-0.2934	-0.00014	-0.45842	0	0.0541	0
91	985	1210	503.6	SLU 37	-0.1719	0.65066	-0.32578	-0.061	0.0345	0.0045
91	985	1210	503.6	SLU 38	-0.0991	-0.00003	-0.32173	0	0.0322	0
91	985	1210	503.6	SLU 39	0.02248	0.65035	-0.18911	-0.0608	0.0126	0.0046
91	985	1210	503.6	SLU 40	-0.23765	-0.00009	-0.3856	0	0.0437	0
91	985	1210	503.6	SLU 41	-0.03509	1.08424	-0.16454	-0.1016	0.011	0.0076
91	985	1210	503.6	SLU 42	0.15932	1.08384	-0.02787	-0.1013	-0.0109	0.0076
91	985	1210	503.6	SLU 43	0.08629	-0.0002	-0.1578	0	0.0073	0
91	985	1210	503.6	SLU 44	0.20785	0.65001	-0.02517	-0.0607	-0.0124	0.0045
91	985	1210	503.6	SLU 45	-0.08833	1.08427	-0.23283	-0.1016	0.0208	0.0075
91	985	1210	503.6	SLU 46	0.10608	1.08393	-0.09615	-0.1013	-0.0011	0.0076
91	985	1210	503.6	SLU 47	0.03305	-0.00015	-0.22608	0	0.017	0
91	985	1210	503.6	SLU 48	0.15464	0.65014	-0.09345	-0.0607	-0.0026	0.0045
91	985	1210	503.6	SLU 49	-0.34408	-0.00019	-0.52217	0.0001	0.0633	0
91	985	1210	503.6	SLU 50	-0.22258	0.65067	-0.38953	-0.0609	0.0436	0.0045
91	985	1210	503.6	SLU 51	-0.14973	-0.00002	-0.38548	0	0.0414	0
91	985	1210	503.6	SLU 52	-0.02822	0.65052	-0.25285	-0.0609	0.0217	0.0045
91	985	1210	503.6	SLE RA 1	-0.17761	-0.00006	-0.29008	0	0.0327	0
91	985	1210	503.6	SLE RA 2	-0.04258	0.72284	-0.14271	-0.0677	0.0109	0.005
91	985	1210	503.6	SLE RA 3	0.08703	0.72257	-0.05159	-0.0675	-0.0037	0.0051
91	985	1210	503.6	SLE RA 4	0.03834	-0.00013	-0.13821	0	0.0084	0
91	985	1210	503.6	SLE RA 5	0.11938	0.43334	-0.04979	-0.0404	-0.0047	0.003
91	985	1210	503.6	SLE RA 6	-0.07806	0.72284	-0.18823	-0.0677	0.0174	0.005
91	985	1210	503.6	SLE RA 7	0.05154	0.72268	-0.09711	-0.0676	0.0028	0.0051
91	985	1210	503.6	SLE RA 8	0.00285	-0.00009	-0.18373	0	0.0149	0
91	985	1210	503.6	SLE RA 9	0.08391	0.43343	-0.09531	-0.0405	0.0018	0.003
91	985	1210	503.6	SLE RA 10	-0.24856	-0.00013	-0.38112	0	0.0457	0
91	985	1210	503.6	SLE RA 11	-0.16756	0.43378	-0.2927	-0.0406	0.0326	0.003
91	985	1210	503.6	SLE RA 12	-0.119	-0.00001	-0.29	0	0.0311	0
91	985	1210	503.6	SLE RA 13	-0.038	0.43369	-0.20158	-0.0406	0.018	0.003
91	985	1210	503.6	SLE FR 1	-0.17761	-0.00006	-0.29008	0	0.0327	0
91	985	1210	503.6	SLE FR 2	-0.15061	0.14458	-0.2606	-0.0135	0.0283	0.001
91	985	1210	503.6	SLE FR 3	-0.13442	-0.00003	-0.2597	0	0.0278	0
91	985	1210	503.6	SLE FR 4	-0.1918	-0.00008	-0.30829	0	0.0353	0
91	985	1210	503.6	SLE QP 1	-0.17761	-0.00006	-0.29008	0	0.0327	0
91	985	1210	503.6	SLD 1	-0.4776	-0.86659	-0.28074	0.082	0.0411	0.0013
91	985	1210	503.6	SLD 2	-0.4776	-0.86659	-0.28074	0.082	0.0411	0.0013
91	985	1210	503.6	SLD 3	-0.3913	0.86595	-0.2864	-0.082	0.0388	-0.0013
91	985	1210	503.6	SLD 4	-0.3913	0.86595	-0.2864	-0.082	0.0388	-0.0013
91	985	1210	503.6	SLD 5	-0.39853	-2.88827	-0.2787	0.2728	0.0385	0.0045
91	985	1210	503.6	SLD 6	-0.39853	-2.88827	-0.2787	0.2728	0.0385	0.0045
91	985	1210	503.6	SLD 7	-0.11082	2.88615	-0.29759	-0.2729	0.0312	-0.0045
91	985	1210	503.6	SLD 8	-0.11082	2.88615	-0.29759	-0.2729	0.0312	-0.0045
91	985	1210	503.6	SLD 9	-0.24444	-2.88827	-0.28261	0.2728	0.0342	0.0045
91	985	1210	503.6	SLD 10	-0.24444	-2.88827	-0.28261	0.2728	0.0342	0.0045
91	985	1210	503.6	SLD 11	0.04327	2.88615	-0.3015	-0.2729	0.0269	-0.0045
91	985	1210	503.6	SLD 12	0.04327	2.88615	-0.3015	-0.2729	0.0269	-0.0045
91	985	1210	503.6	SLD 13	0.03605	-0.86657	-0.29376	0.0818	0.0265	0.0014
91	985	1210	503.6	SLD 14	0.03605	-0.86657	-0.29376	0.0818	0.0265	0.0014
91	985	1210	503.6	SLD 15	0.12232	0.86593	-0.29943	-0.0818	0.0243	-0.0014
91	985	1210	503.6	SLD 16	0.12232	0.86593	-0.29943	-0.0818	0.0243	-0.0014
91	985	1210	503.6	SLV 1	-0.94825	-2.22591	-0.2661	0.2104	0.0542	0.0034
91	985	1210	503.6	SLV 2	-0.94825	-2.22591	-0.2661	0.2104	0.0542	0.0034
91	985	1210	503.6	SLV 3	-0.72652	2.22427	-0.28064	-0.2104	0.0485	-0.0035
91	985	1210	503.6	SLV 4	-0.72652	2.22427	-0.28064	-0.2104	0.0485	-0.0035
91	985	1210	503.6	SLV 5	-0.74514	-7.41944	-0.26086	0.7007	0.0477	0.0114
91	985	1210	503.6	SLV 6	-0.74514	-7.41944	-0.26086	0.7007	0.0477	0.0114
91	985	1210	503.6	SLV 7	-0.00594	7.41399	-0.30939	-0.701	0.0289	-0.0116
91	985	1210	503.6	SLV 8	-0.00594	7.41399	-0.30939	-0.701	0.0289	-0.0116
91	985	1210	503.6	SLV 9	-0.34928	-7.41945	-0.2709	0.7006	0.0366	0.0114
91	985	1210	503.6	SLV 10	-0.34928	-7.41945	-0.2709	0.7006	0.0366	0.0114
91	985	1210	503.6	SLV 11	0.38991	7.414	-0.31943	-0.7009	0.0177	-0.0116
91	985	1210	503.6	SLV 12	0.38991	7.414	-0.31943	-0.7009	0.0177	-0.0116
91	985	1210	503.6	SLV 13	0.37127	-2.22593	-0.29954	0.2101	0.0169	0.0035
91	985	1210	503.6	SLV 14	0.37127	-2.22593	-0.29954	0.2101	0.0169	0.0035
91	985	1210	503.6	SLV 15	0.59297	2.22429	-0.3141	-0.2102	0.0112	-0.0035
91	985	1210	503.6	SLV 16	0.59297	2.22429	-0.3141	-0.2102	0.0112	-0.0035
91	985	1210	503.6	SLV FO 1	-0.94825	-2.22591	-0.2661	0.2104	0.0542	0.0034
91	985	1210	503.6	SLV FO 2	-0.94825	-2.22591	-0.2661	0.2104	0.0542	0.0034
91	985	1210	503.6	SLV FO 3	-0.72652	2.22427	-0.28064	-0.2104	0.0485	-0.0035
91	985	1210	503.6	SLV FO 4	-0.72652	2.22427	-0.28064	-0.2104	0.0485	-0.0035
91	985	1210	503.6	SLV FO 5	-0.74514	-7.41944	-0.26086	0.7007	0.0477	0.0114
91	985	1210	503.6	SLV FO 6	-0.74514	-7.41944	-0.26086	0.7007	0.0477	0.0114
91	985	1210	503.6	SLV FO 7	-0.00594	7.41399	-0.30939	-0.701	0.0289	-0.0116

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
91	985	1210	503.6	SLV FO 8	-0.00594	7.41399	-0.30939	-0.701	0.0289	-0.0116
91	985	1210	503.6	SLV FO 9	-0.34928	-7.41945	-0.2709	0.7006	0.0366	0.0114
91	985	1210	503.6	SLV FO 10	-0.34928	-7.41945	-0.2709	0.7006	0.0366	0.0114
91	985	1210	503.6	SLV FO 11	0.38991	7.414	-0.31943	-0.7009	0.0177	-0.0116
91	985	1210	503.6	SLV FO 12	0.38991	7.414	-0.31943	-0.7009	0.0177	-0.0116
91	985	1210	503.6	SLV FO 13	0.37127	-2.22593	-0.29954	0.2101	0.0169	0.0035
91	985	1210	503.6	SLV FO 14	0.37127	-2.22593	-0.29954	0.2101	0.0169	0.0035
91	985	1210	503.6	SLV FO 15	0.59297	2.22429	-0.3141	-0.2102	0.0112	-0.0035
91	985	1210	503.6	SLV FO 16	0.59297	2.22429	-0.3141	-0.2102	0.0112	-0.0035
92	475	210	505	SLU 1	-0.13276	0.00005	-0.08328	0	-0.0005	0
92	475	210	505	SLU 2	0.00732	1.08581	-0.06619	-0.0996	-0.0029	-0.0098
92	475	210	505	SLU 3	0.19168	1.08555	-0.049	-0.0995	0.0005	-0.0098
92	475	210	505	SLU 4	0.17464	0.00034	-0.05461	-0.0001	0.0051	0
92	475	210	505	SLU 5	0.25859	0.65141	-0.04437	-0.0597	0.0036	-0.0059
92	475	210	505	SLU 6	-0.04194	1.08599	-0.07176	-0.0997	-0.0025	-0.0099
92	475	210	505	SLU 7	0.14237	1.08554	-0.05458	-0.0995	0.0008	-0.0098
92	475	210	505	SLU 8	0.12532	0.00026	-0.06019	-0.0001	0.0054	0
92	475	210	505	SLU 9	0.2093	0.6514	-0.04995	-0.0597	0.004	-0.0059
92	475	210	505	SLU 10	-0.23133	0.00021	-0.09443	-0.0001	0.0002	0
92	475	210	505	SLU 11	-0.14724	0.65176	-0.08418	-0.0598	-0.0012	-0.0059
92	475	210	505	SLU 12	-0.04697	0.00002	-0.07724	0	0.0035	0
92	475	210	505	SLU 13	0.03706	0.65134	-0.06699	-0.0597	0.0021	-0.0059
92	475	210	505	SLU 14	-0.17972	0.00013	-0.08878	-0.0001	-0.0003	0
92	475	210	505	SLU 15	-0.03961	1.08599	-0.07169	-0.0997	-0.0027	-0.0099
92	475	210	505	SLU 16	0.1447	1.08554	-0.05451	-0.0995	0.0006	-0.0098
92	475	210	505	SLU 17	0.12765	0.00027	-0.06012	-0.0001	0.0053	0
92	475	210	505	SLU 18	0.21163	0.65141	-0.04988	-0.0597	0.0038	-0.0059
92	475	210	505	SLU 19	-0.08891	1.08601	-0.07727	-0.0997	-0.0023	-0.0099
92	475	210	505	SLU 20	0.09539	1.08553	-0.06009	-0.0996	0.001	-0.0098
92	475	210	505	SLU 21	0.07834	0.00018	-0.06571	0	0.0056	0
92	475	210	505	SLU 22	0.16232	0.6513	-0.05546	-0.0597	0.0042	-0.0059
92	475	210	505	SLU 23	-0.27829	0.00029	-0.09994	-0.0001	0.0004	0
92	475	210	505	SLU 24	-0.1942	0.65171	-0.08968	-0.0597	-0.001	-0.0059
92	475	210	505	SLU 25	-0.09395	0.00005	-0.08275	0	0.0037	0
92	475	210	505	SLU 26	-0.00987	0.65154	-0.0725	-0.0598	0.0023	-0.0059
92	475	210	505	SLU 27	-0.17259	0.00007	-0.10826	0	-0.0007	0
92	475	210	505	SLU 28	-0.03252	1.08583	-0.09117	-0.0996	-0.003	-0.0098
92	475	210	505	SLU 29	0.15184	1.08555	-0.07398	-0.0995	0.0003	-0.0098
92	475	210	505	SLU 30	0.1348	0.00033	-0.0796	-0.0001	0.0049	0
92	475	210	505	SLU 31	0.21874	0.65139	-0.06935	-0.0597	0.0035	-0.0059
92	475	210	505	SLU 32	-0.08177	1.08602	-0.09675	-0.0997	-0.0027	-0.0099
92	475	210	505	SLU 33	0.10254	1.08554	-0.07956	-0.0995	0.0007	-0.0098
92	475	210	505	SLU 34	0.08548	0.00025	-0.08518	-0.0001	0.0053	0
92	475	210	505	SLU 35	0.16946	0.65139	-0.07493	-0.0597	0.0038	-0.0059
92	475	210	505	SLU 36	-0.27116	0.00023	-0.11941	-0.0001	0	0
92	475	210	505	SLU 37	-0.18707	0.65179	-0.10916	-0.0598	-0.0014	-0.0059
92	475	210	505	SLU 38	-0.08681	-0.00001	-0.10223	0	0.0034	0
92	475	210	505	SLU 39	-0.00278	0.65135	-0.09198	-0.0597	0.002	-0.0059
92	475	210	505	SLU 40	-0.21955	0.00014	-0.11377	-0.0001	-0.0005	0
92	475	210	505	SLU 41	-0.07944	1.08601	-0.09668	-0.0997	-0.0028	-0.0099
92	475	210	505	SLU 42	0.10486	1.08554	-0.07949	-0.0995	0.0005	-0.0098
92	475	210	505	SLU 43	0.08781	0.00025	-0.08511	-0.0001	0.0051	0
92	475	210	505	SLU 44	0.17179	0.6514	-0.07486	-0.0597	0.0037	-0.0059
92	475	210	505	SLU 45	-0.12871	1.08619	-0.10225	-0.0997	-0.0025	-0.0099
92	475	210	505	SLU 46	0.05557	1.08557	-0.08507	-0.0996	0.0008	-0.0098
92	475	210	505	SLU 47	0.0385	0.00017	-0.09069	0	0.0055	0
92	475	210	505	SLU 48	0.12249	0.6513	-0.08044	-0.0597	0.004	-0.0059
92	475	210	505	SLU 49	-0.31812	0.0003	-0.12492	-0.0002	0.0002	0
92	475	210	505	SLU 50	-0.23403	0.65173	-0.11467	-0.0597	-0.0012	-0.0059
92	475	210	505	SLU 51	-0.13373	0.00007	-0.10773	0	0.0036	0
92	475	210	505	SLU 52	-0.04969	0.65159	-0.09748	-0.0598	0.0022	-0.0059
92	475	210	505	SLE RA 1	-0.16407	0.0001	-0.08695	-0.0001	-0.0004	0
92	475	210	505	SLE RA 2	-0.07066	0.72402	-0.07555	-0.0664	-0.002	-0.0066
92	475	210	505	SLE RA 3	0.0522	0.7237	-0.0641	-0.0664	0.0003	-0.0065
92	475	210	505	SLE RA 4	0.04083	0.00016	-0.06784	0	0.0033	0
92	475	210	505	SLE RA 5	0.09682	0.43426	-0.06101	-0.0398	0.0024	-0.0039
92	475	210	505	SLE RA 6	-0.10349	0.72425	-0.07927	-0.0665	-0.0017	-0.0066
92	475	210	505	SLE RA 7	0.01936	0.72378	-0.06782	-0.0664	0.0005	-0.0066
92	475	210	505	SLE RA 8	0.00796	0.00011	-0.07156	0	0.0036	0
92	475	210	505	SLE RA 9	0.06395	0.4342	-0.06473	-0.0398	0.0026	-0.0039
92	475	210	505	SLE RA 10	-0.22978	0.00021	-0.09439	-0.0001	0.0001	0
92	475	210	505	SLE RA 11	-0.17372	0.43447	-0.08755	-0.0398	-0.0009	-0.0039
92	475	210	505	SLE RA 12	-0.10686	0.00005	-0.08292	0	0.0023	0
92	475	210	505	SLE RA 13	-0.05083	0.4344	-0.07609	-0.0399	0.0014	-0.0039
92	475	210	505	SLE FR 1	-0.16407	0.0001	-0.08695	-0.0001	-0.0004	0
92	475	210	505	SLE FR 2	-0.14538	0.1448	-0.08467	-0.0132	-0.0007	-0.0013
92	475	210	505	SLE FR 3	-0.12309	0.00005	-0.08313	0	0.0004	0
92	475	210	505	SLE FR 4	-0.17721	0.00012	-0.08844	-0.0001	-0.0003	0
92	475	210	505	SLE QP 1	-0.16407	0.0001	-0.08695	-0.0001	-0.0004	0
92	475	210	505	SLD 1	-0.3717	-0.92359	-0.1079	0.0866	-0.0137	0.0142
92	475	210	505	SLD 2	-0.3717	-0.92359	-0.1079	0.0866	-0.0137	0.0142
92	475	210	505	SLD 3	-0.45531	0.92431	-0.11614	-0.0866	-0.0194	-0.0143
92	475	210	505	SLD 4	-0.45531	0.92431	-0.11614	-0.0866	-0.0194	-0.0143
92	475	210	505	SLD 5	-0.09951	-3.07906	-0.08072	0.2893	0.0044	0.0474
92	475	210	505	SLD 6	-0.09951	-3.07906	-0.08072	0.2893	0.0044	0.0474
92	475	210	505	SLD 7	-0.37827	3.08146	-0.1082	-0.289	-0.0148	-0.0477
92	475	210	505	SLD 8	-0.37827	3.08146	-0.1082	-0.289	-0.0148	-0.0477
92	475	210	505	SLD 9	0.05015	-3.07913	-0.06568	0.2893	0.0141	0.0474
92	475	210	505	SLD 10	0.05015	-3.07913	-0.06568	0.2893	0.0141	0.0474
92	475	210	505	SLD 11	-0.22861	3.08153	-0.09316	-0.2891	-0.0051	-0.0477
92	475	210	505	SLD 12	-0.22861	3.08153	-0.09316	-0.2891	-0.0051	-0.0477
92	475	210	505	SLD 13	0.12714	-0.92394	-0.05776	0.0869	0.0187	0.0142
92	475	210	505	SLD 14	0.12714	-0.92394	-0.05776	0.0869	0.0187	0.0142
92	475	210	505	SLD 15	0.04356	0.92466	-0.066	-0.0868	0.0129	-0.0143
92	475	210	505	SLD 16	0.04356	0.92466	-0.066	-0.0868	0.0129	-0.0143
92	475	210	505	SLV 1	-0.69743	-2.37271	-0.14076	0.2227	-0.0345	0.0365
92	475	210	505	SLV 2	-0.69743	-2.37271	-0.14076	0.2227	-0.0345	0.0365
92	475	210	505	SLV 3	-0.91225	2.37455	-0.16194	-0.2226	-0.0493	-0.0367
92	475	210	505	SLV 4	-0.91225	2.37455	-0.16194	-0.2226	-0.0493	-0.0367
92	475	210	505	SLV 5	0.00187	-7.90951	-0.07094	0.7432	0.0118	0.1218
92	475	210	505	SLV 6	0.00187	-7.90951	-0.07094	0.7432	0.0118	0.1218
92	475	210	505	SLV 7	-0.71432	7.91567	-0.14155	-0.7425	-0.0375	-0.1225
92	475	210	505	SLV 8	-0.71432	7.91567	-0.14155	-0.7425	-0.0375	-0.1225

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
92	475	210	505	SLV 9	0.38633	-7.90967	-0.03229	0.7433	0.0368	0.1218
92	475	210	505	SLV 10	0.38633	-7.90967	-0.03229	0.7433	0.0368	0.1218
92	475	210	505	SLV 11	-0.32985	7.91584	-0.10291	-0.7426	-0.0126	-0.1225
92	475	210	505	SLV 12	-0.32985	7.91584	-0.10291	-0.7426	-0.0126	-0.1225
92	475	210	505	SLV 13	0.58411	-2.37326	-0.01195	0.2232	0.0486	0.0366
92	475	210	505	SLV 14	0.58411	-2.37326	-0.01195	0.2232	0.0486	0.0366
92	475	210	505	SLV 15	0.3693	2.37512	-0.03313	-0.2229	0.0338	-0.0368
92	475	210	505	SLV 16	0.3693	2.37512	-0.03313	-0.2229	0.0338	-0.0368
92	475	210	505	SLV FO 1	-0.69743	-2.37271	-0.14076	0.2227	-0.0345	0.0365
92	475	210	505	SLV FO 2	-0.69743	-2.37271	-0.14076	0.2227	-0.0345	0.0365
92	475	210	505	SLV FO 3	-0.91225	2.37455	-0.16194	-0.2226	-0.0493	-0.0367
92	475	210	505	SLV FO 4	-0.91225	2.37455	-0.16194	-0.2226	-0.0493	-0.0367
92	475	210	505	SLV FO 5	0.00187	-7.90951	-0.07094	0.7432	0.0118	0.1218
92	475	210	505	SLV FO 6	0.00187	-7.90951	-0.07094	0.7432	0.0118	0.1218
92	475	210	505	SLV FO 7	-0.71432	7.91567	-0.14155	-0.7425	-0.0375	-0.1225
92	475	210	505	SLV FO 8	-0.71432	7.91567	-0.14155	-0.7425	-0.0375	-0.1225
92	475	210	505	SLV FO 9	0.38633	-7.90967	-0.03229	0.7433	0.0368	0.1218
92	475	210	505	SLV FO 10	0.38633	-7.90967	-0.03229	0.7433	0.0368	0.1218
92	475	210	505	SLV FO 11	-0.32985	7.91584	-0.10291	-0.7426	-0.0126	-0.1225
92	475	210	505	SLV FO 12	-0.32985	7.91584	-0.10291	-0.7426	-0.0126	-0.1225
92	475	210	505	SLV FO 13	0.58411	-2.37326	-0.01195	0.2232	0.0486	0.0366
92	475	210	505	SLV FO 14	0.58411	-2.37326	-0.01195	0.2232	0.0486	0.0366
92	475	210	505	SLV FO 15	0.3693	2.37512	-0.03313	-0.2229	0.0338	-0.0368
92	475	210	505	SLV FO 16	0.3693	2.37512	-0.03313	-0.2229	0.0338	-0.0368
93	475	710	505	SLU 1	-0.14198	0	-0.08653	0	0	0
93	475	710	505	SLU 2	0.07289	1.08463	-0.06021	-0.1012	-0.0091	-0.0101
93	475	710	505	SLU 3	0.30151	1.08412	-0.03796	-0.101	-0.01	-0.01
93	475	710	505	SLU 4	0.23901	0	-0.04944	0	-0.0015	0
93	475	710	505	SLU 5	0.36801	0.65033	-0.03365	-0.0606	-0.007	-0.006
93	475	710	505	SLU 6	0.00835	1.08489	-0.06771	-0.1012	-0.0061	-0.0101
93	475	710	505	SLU 7	0.23703	1.08419	-0.04545	-0.101	-0.007	-0.01
93	475	710	505	SLU 8	0.17452	0	-0.05693	0	0.0015	0
93	475	710	505	SLU 9	0.30349	0.6504	-0.04114	-0.0606	-0.004	-0.006
93	475	710	505	SLU 10	-0.27103	0	-0.10151	0	0.006	0
93	475	710	505	SLU 11	-0.14214	0.65123	-0.08573	-0.0608	0.0006	-0.0061
93	475	710	505	SLU 12	-0.04234	0	-0.07925	0	0.0051	0
93	475	710	505	SLU 13	0.08658	0.65058	-0.06346	-0.0607	-0.0004	-0.006
93	475	710	505	SLU 14	-0.20337	0	-0.09405	0	0.0026	0
93	475	710	505	SLU 15	0.01148	1.08488	-0.06773	-0.1012	-0.0065	-0.0101
93	475	710	505	SLU 16	0.24016	1.08419	-0.04547	-0.101	-0.0074	-0.01
93	475	710	505	SLU 17	0.17765	0	-0.05696	0	0.001	0
93	475	710	505	SLU 18	0.30662	0.6504	-0.04116	-0.0606	-0.0044	-0.006
93	475	710	505	SLU 19	-0.05301	1.08499	-0.07522	-0.1013	-0.0035	-0.0101
93	475	710	505	SLU 20	0.17567	1.08426	-0.05296	-0.1011	-0.0044	-0.01
93	475	710	505	SLU 21	0.11316	0	-0.06445	0	0.0041	0
93	475	710	505	SLU 22	0.2421	0.65037	-0.04866	-0.0606	-0.0014	-0.006
93	475	710	505	SLU 23	-0.33242	0	-0.10903	0	0.0086	0
93	475	710	505	SLU 24	-0.20353	0.65125	-0.09325	-0.0609	0.0031	-0.0061
93	475	710	505	SLU 25	-0.1037	0	-0.08677	0	0.0077	0
93	475	710	505	SLU 26	0.02517	0.65085	-0.07098	-0.0607	0.0022	-0.006
93	475	710	505	SLU 27	-0.18457	0	-0.11249	0	0	0
93	475	710	505	SLU 28	0.03032	1.08466	-0.08617	-0.1012	-0.0091	-0.0101
93	475	710	505	SLU 29	0.25894	1.08414	-0.06392	-0.101	-0.01	-0.01
93	475	710	505	SLU 30	0.19644	0	-0.0754	0	-0.0015	0
93	475	710	505	SLU 31	0.32544	0.65032	-0.0596	-0.0606	-0.007	-0.006
93	475	710	505	SLU 32	-0.03423	1.08493	-0.09366	-0.1012	-0.0061	-0.0101
93	475	710	505	SLU 33	0.19445	1.08421	-0.0714	-0.1011	-0.007	-0.01
93	475	710	505	SLU 34	0.13194	0	-0.08289	0	0.0015	0
93	475	710	505	SLU 35	0.26092	0.6504	-0.06709	-0.0606	-0.004	-0.006
93	475	710	505	SLU 36	-0.31362	0	-0.12747	0	0.006	0
93	475	710	505	SLU 37	-0.18472	0.65128	-0.11168	-0.0609	0.0005	-0.0061
93	475	710	505	SLU 38	-0.08491	0	-0.10521	0	0.0051	0
93	475	710	505	SLU 39	0.04401	0.6506	-0.08942	-0.0607	-0.0004	-0.006
93	475	710	505	SLU 40	-0.24596	0	-0.12001	0	0.0026	0
93	475	710	505	SLU 41	-0.0311	1.08493	-0.09369	-0.1012	-0.0065	-0.0101
93	475	710	505	SLU 42	0.19758	1.08421	-0.07143	-0.1011	-0.0074	-0.01
93	475	710	505	SLU 43	0.13508	0	-0.08292	0	0.001	0
93	475	710	505	SLU 44	0.26405	0.6504	-0.06712	-0.0606	-0.0044	-0.006
93	475	710	505	SLU 45	-0.09563	1.08519	-0.10118	-0.1013	-0.0035	-0.0101
93	475	710	505	SLU 46	0.13308	1.08432	-0.07892	-0.1011	-0.0044	-0.01
93	475	710	505	SLU 47	0.07058	0	-0.09041	0	0.0041	0
93	475	710	505	SLU 48	0.19952	0.65038	-0.07461	-0.0606	-0.0014	-0.006
93	475	710	505	SLU 49	-0.37502	0	-0.13499	0	0.0086	0
93	475	710	505	SLU 50	-0.24612	0.65129	-0.1192	-0.0609	0.0031	-0.0061
93	475	710	505	SLU 51	-0.14639	0	-0.11274	0	0.0077	0
93	475	710	505	SLU 52	-0.01742	0.65091	-0.09694	-0.0607	0.0022	-0.006
93	475	710	505	SLE RA 1	-0.1829	0	-0.09154	0	0.0017	0
93	475	710	505	SLE RA 2	-0.03965	0.7233	-0.074	-0.0675	-0.0043	-0.0067
93	475	710	505	SLE RA 3	0.1128	0.72282	-0.05916	-0.0674	-0.0049	-0.0067
93	475	710	505	SLE RA 4	0.07113	0	-0.06681	0	0.0007	0
93	475	710	505	SLE RA 5	0.15711	0.4336	-0.05628	-0.0404	-0.0029	-0.004
93	475	710	505	SLE RA 6	-0.0827	0.72359	-0.07899	-0.0676	-0.0023	-0.0068
93	475	710	505	SLE RA 7	0.06978	0.72296	-0.06415	-0.0674	-0.0029	-0.0067
93	475	710	505	SLE RA 8	0.02814	0	-0.07181	0	0.0027	0
93	475	710	505	SLE RA 9	0.11409	0.4336	-0.06128	-0.0404	-0.0009	-0.004
93	475	710	505	SLE RA 10	-0.26894	0	-0.10153	0	0.0057	0
93	475	710	505	SLE RA 11	-0.18301	0.43418	-0.09101	-0.0406	0.0021	-0.0041
93	475	710	505	SLE RA 12	-0.11653	0	-0.0867	0	0.0051	0
93	475	710	505	SLE RA 13	-0.03053	0.43396	-0.07617	-0.0405	0.0015	-0.004
93	475	710	505	SLE FR 1	-0.1829	0	-0.09154	0	0.0017	0
93	475	710	505	SLE FR 2	-0.15426	0.14474	-0.08803	-0.0135	0.0005	-0.0014
93	475	710	505	SLE FR 3	-0.1321	0	-0.0866	0	0.0015	0
93	475	710	505	SLE FR 4	-0.20011	0	-0.09354	0	0.0025	0
93	475	710	505	SLE QP 1	-0.1829	0	-0.09154	0	0.0017	0
93	475	710	505	SLD 1	-0.45609	-0.92417	-0.1186	0.0871	-0.0158	0.0144
93	475	710	505	SLD 2	-0.45609	-0.92417	-0.1186	0.0871	-0.0158	0.0144
93	475	710	505	SLD 3	-0.45609	0.92417	-0.1186	-0.0871	-0.0158	-0.0144
93	475	710	505	SLD 4	-0.45609	0.92417	-0.1186	-0.0871	-0.0158	-0.0144
93	475	710	505	SLD 5	-0.26464	-3.08041	-0.09963	0.29	-0.0035	0.0477
93	475	710	505	SLD 6	-0.26464	-3.08041	-0.09963	0.29	-0.0035	0.0477

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
93	475	710	505	SLD 7	-0.26464	3.08041	-0.09963	-0.29	-0.0035	-0.0477
93	475	710	505	SLD 8	-0.26464	3.08041	-0.09963	-0.29	-0.0035	-0.0477
93	475	710	505	SLD 9	-0.10068	-3.08041	-0.08339	0.2899	0.007	0.0477
93	475	710	505	SLD 10	-0.10068	-3.08041	-0.08339	0.2899	0.007	0.0477
93	475	710	505	SLD 11	-0.10068	3.08041	-0.08339	-0.2899	0.007	-0.0477
93	475	710	505	SLD 12	-0.10068	3.08041	-0.08339	-0.2899	0.007	-0.0477
93	475	710	505	SLD 13	0.09048	-0.92429	-0.06446	0.087	0.0192	0.0143
93	475	710	505	SLD 14	0.09048	-0.92429	-0.06446	0.087	0.0192	0.0143
93	475	710	505	SLD 15	0.09048	0.92429	-0.06446	-0.087	0.0192	-0.0143
93	475	710	505	SLD 16	0.09048	0.92429	-0.06446	-0.087	0.0192	-0.0143
93	475	710	505	SLV 1	-0.88469	-2.37406	-0.16104	0.2237	-0.0433	0.0369
93	475	710	505	SLV 2	-0.88469	-2.37406	-0.16104	0.2237	-0.0433	0.0369
93	475	710	505	SLV 3	-0.88469	2.37406	-0.16104	-0.2237	-0.0433	-0.0369
93	475	710	505	SLV 4	-0.88469	2.37406	-0.16104	-0.2237	-0.0433	-0.0369
93	475	710	505	SLV 5	-0.39296	-7.91283	-0.11232	0.7447	-0.0117	0.1226
93	475	710	505	SLV 6	-0.39296	-7.91283	-0.11232	0.7447	-0.0117	0.1226
93	475	710	505	SLV 7	-0.39296	7.91283	-0.11232	-0.7447	-0.0117	-0.1226
93	475	710	505	SLV 8	-0.39296	7.91283	-0.11232	-0.7447	-0.0117	-0.1226
93	475	710	505	SLV 9	0.02824	-7.91281	-0.0706	0.7446	0.0153	0.1225
93	475	710	505	SLV 10	0.02824	-7.91281	-0.0706	0.7446	0.0153	0.1225
93	475	710	505	SLV 11	0.02824	7.91281	-0.0706	-0.7446	0.0153	-0.1225
93	475	710	505	SLV 12	0.02824	7.91281	-0.0706	-0.7446	0.0153	-0.1225
93	475	710	505	SLV 13	0.51929	-2.37398	-0.02199	0.2232	0.0467	0.0367
93	475	710	505	SLV 14	0.51929	-2.37398	-0.02199	0.2232	0.0467	0.0367
93	475	710	505	SLV 15	0.51929	2.37398	-0.02199	-0.2232	0.0467	-0.0367
93	475	710	505	SLV 16	0.51929	2.37398	-0.02199	-0.2232	0.0467	-0.0367
93	475	710	505	SLV FO 1	-0.88469	-2.37406	-0.16104	0.2237	-0.0433	0.0369
93	475	710	505	SLV FO 2	-0.88469	-2.37406	-0.16104	0.2237	-0.0433	0.0369
93	475	710	505	SLV FO 3	-0.88469	2.37406	-0.16104	-0.2237	-0.0433	-0.0369
93	475	710	505	SLV FO 4	-0.88469	2.37406	-0.16104	-0.2237	-0.0433	-0.0369
93	475	710	505	SLV FO 5	-0.39296	-7.91283	-0.11232	0.7447	-0.0117	0.1226
93	475	710	505	SLV FO 6	-0.39296	-7.91283	-0.11232	0.7447	-0.0117	0.1226
93	475	710	505	SLV FO 7	-0.39296	7.91283	-0.11232	-0.7447	-0.0117	-0.1226
93	475	710	505	SLV FO 8	-0.39296	7.91283	-0.11232	-0.7447	-0.0117	-0.1226
93	475	710	505	SLV FO 9	0.02824	-7.91281	-0.0706	0.7446	0.0153	0.1225
93	475	710	505	SLV FO 10	0.02824	-7.91281	-0.0706	0.7446	0.0153	0.1225
93	475	710	505	SLV FO 11	0.02824	7.91281	-0.0706	-0.7446	0.0153	-0.1225
93	475	710	505	SLV FO 12	0.02824	7.91281	-0.0706	-0.7446	0.0153	-0.1225
93	475	710	505	SLV FO 13	0.51929	-2.37398	-0.02199	0.2232	0.0467	0.0367
93	475	710	505	SLV FO 14	0.51929	-2.37398	-0.02199	0.2232	0.0467	0.0367
93	475	710	505	SLV FO 15	0.51929	2.37398	-0.02199	-0.2232	0.0467	-0.0367
93	475	710	505	SLV FO 16	0.51929	2.37398	-0.02199	-0.2232	0.0467	-0.0367
94	475	1210	505	SLU 1	-0.13276	-0.00005	-0.08328	0	-0.0005	0
94	475	1210	505	SLU 2	0.05598	1.08407	-0.06178	-0.101	0.0005	-0.01
94	475	1210	505	SLU 3	0.24046	1.08378	-0.04458	-0.1012	0.0039	-0.01
94	475	1210	505	SLU 4	0.17464	-0.00034	-0.05461	0.0001	0.0051	0
94	475	1210	505	SLU 5	0.28789	0.65005	-0.04172	-0.0606	0.0057	-0.006
94	475	1210	505	SLU 6	0.00667	1.08426	-0.06736	-0.101	0.0009	-0.01
94	475	1210	505	SLU 7	0.19113	1.08378	-0.05016	-0.1011	0.0042	-0.01
94	475	1210	505	SLU 8	0.12532	-0.00026	-0.06019	0.0001	0.0054	0
94	475	1210	505	SLU 9	0.23857	0.6502	-0.0473	-0.0607	0.006	-0.006
94	475	1210	505	SLU 10	-0.23133	-0.00021	-0.09443	0.0001	0.0002	0
94	475	1210	505	SLU 11	-0.11814	0.65073	-0.08154	-0.0605	0.0008	-0.006
94	475	1210	505	SLU 12	-0.04697	-0.00002	-0.07724	0	0.0035	0
94	475	1210	505	SLU 13	0.0663	0.65029	-0.06434	-0.0606	0.0042	-0.006
94	475	1210	505	SLU 14	-0.17972	-0.00013	-0.08878	0.0001	-0.0003	0
94	475	1210	505	SLU 15	0.00899	1.08425	-0.06729	-0.101	0.0007	-0.01
94	475	1210	505	SLU 16	0.19346	1.08378	-0.05009	-0.1011	0.0041	-0.01
94	475	1210	505	SLU 17	0.12765	-0.00027	-0.06012	0.0001	0.0053	0
94	475	1210	505	SLU 18	0.2409	0.6502	-0.04723	-0.0607	0.0059	-0.006
94	475	1210	505	SLU 19	-0.04033	1.08429	-0.07287	-0.1009	0.0011	-0.0099
94	475	1210	505	SLU 20	0.14414	1.08378	-0.05567	-0.101	0.0044	-0.01
94	475	1210	505	SLU 21	0.07834	-0.00018	-0.06571	0	0.0056	0
94	475	1210	505	SLU 22	0.19161	0.65023	-0.05281	-0.0608	0.0062	-0.006
94	475	1210	505	SLU 23	-0.27829	-0.00029	-0.09994	0.0001	0.0004	0
94	475	1210	505	SLU 24	-0.1651	0.65067	-0.08705	-0.0605	0.001	-0.006
94	475	1210	505	SLU 25	-0.09395	-0.00005	-0.08275	0	0.0037	0
94	475	1210	505	SLU 26	0.01931	0.65049	-0.06986	-0.0606	0.0043	-0.006
94	475	1210	505	SLU 27	-0.17259	-0.00007	-0.10826	0	-0.0007	0
94	475	1210	505	SLU 28	0.01614	1.08409	-0.08676	-0.101	0.0004	-0.01
94	475	1210	505	SLU 29	0.20061	1.08379	-0.06956	-0.1012	0.0037	-0.01
94	475	1210	505	SLU 30	0.1348	-0.00033	-0.0796	0.0001	0.0049	0
94	475	1210	505	SLU 31	0.24805	0.65006	-0.0667	-0.0607	0.0055	-0.006
94	475	1210	505	SLU 32	-0.03318	1.08429	-0.09235	-0.101	0.0007	-0.01
94	475	1210	505	SLU 33	0.15129	1.08379	-0.07515	-0.1011	0.0041	-0.01
94	475	1210	505	SLU 34	0.08548	-0.00025	-0.08518	0.0001	0.0053	0
94	475	1210	505	SLU 35	0.19873	0.65022	-0.07228	-0.0607	0.0059	-0.006
94	475	1210	505	SLU 36	-0.27116	-0.00023	-0.11941	0.0001	0	0
94	475	1210	505	SLU 37	-0.15798	0.65075	-0.10652	-0.0605	0.0006	-0.006
94	475	1210	505	SLU 38	-0.08681	0.00001	-0.10223	0	0.0034	0
94	475	1210	505	SLU 39	0.02646	0.6503	-0.08933	-0.0606	0.004	-0.006
94	475	1210	505	SLU 40	-0.21955	-0.00014	-0.11377	0.0001	-0.0005	0
94	475	1210	505	SLU 41	-0.03085	1.08428	-0.09228	-0.101	0.0006	-0.01
94	475	1210	505	SLU 42	0.15362	1.08379	-0.07508	-0.1011	0.0039	-0.01
94	475	1210	505	SLU 43	0.08781	-0.00025	-0.08511	0.0001	0.0051	0
94	475	1210	505	SLU 44	0.20106	0.65021	-0.07221	-0.0607	0.0057	-0.006
94	475	1210	505	SLU 45	-0.08016	1.08447	-0.09786	-0.1009	0.0009	-0.01
94	475	1210	505	SLU 46	0.1043	1.08382	-0.08066	-0.101	0.0043	-0.01
94	475	1210	505	SLU 47	0.0385	-0.00017	-0.09069	0	0.0055	0
94	475	1210	505	SLU 48	0.15177	0.65024	-0.07779	-0.0608	0.0061	-0.006
94	475	1210	505	SLU 49	-0.31812	-0.0003	-0.12492	0.0002	0.0002	0
94	475	1210	505	SLU 50	-0.20494	0.65069	-0.11203	-0.0605	0.0008	-0.006
94	475	1210	505	SLU 51	-0.13373	-0.00007	-0.10773	0	0.0036	0
94	475	1210	505	SLU 52	-0.02053	0.65054	-0.09484	-0.0606	0.0042	-0.006
94	475	1210	505	SLE RA 1	-0.16407	-0.0001	-0.08695	0.0001	-0.0004	0
94	475	1210	505	SLE RA 2	-0.03827	0.72287	-0.07262	-0.0673	0.0003	-0.0066
94	475	1210	505	SLE RA 3	0.08471	0.72253	-0.06116	-0.0674	0.0025	-0.0067
94	475	1210	505	SLE RA 4	0.04083	-0.00016	-0.06784	0	0.0033	0
94	475	1210	505	SLE RA 5	0.11633	0.43348	-0.05925	-0.0405	0.0038	-0.004
94	475	1210	505	SLE RA 6	-0.07114	0.72311	-0.07634	-0.0673	0.0005	-0.0067
94	475	1210	505	SLE RA 7	0.05183	0.72262	-0.06488	-0.0674	0.0028	-0.0066
94	475	1210	505	SLE RA 8	0.00796	-0.00011	-0.07156	0	0.0036	0
94	475	1210	505	SLE RA 9	0.08347	0.43349	-0.06296	-0.0405	0.004	-0.004

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
94	475	1210	505	SLE RA 10	-0.22978	-0.00021	-0.09439	0.0001	0.0001	0
94	475	1210	505	SLE RA 11	-0.15433	0.43377	-0.08579	-0.0403	0.0005	-0.004
94	475	1210	505	SLE RA 12	-0.10686	-0.00005	-0.08292	0	0.0023	0
94	475	1210	505	SLE RA 13	-0.03139	0.4337	-0.07433	-0.0404	0.0027	-0.004
94	475	1210	505	SLE FR 1	-0.16407	-0.0001	-0.08695	0.0001	-0.0004	0
94	475	1210	505	SLE FR 2	-0.13892	0.14457	-0.08408	-0.0134	-0.0002	-0.0013
94	475	1210	505	SLE FR 3	-0.12309	-0.00005	-0.08313	0	0.0004	0
94	475	1210	505	SLE FR 4	-0.17721	-0.00012	-0.08844	0.0001	-0.0003	0
94	475	1210	505	SLE QP 1	-0.16407	-0.0001	-0.08695	0.0001	-0.0004	0
94	475	1210	505	SLD 1	-0.45531	-0.92431	-0.11614	0.0866	-0.0194	0.0143
94	475	1210	505	SLD 2	-0.45531	-0.92431	-0.11614	0.0866	-0.0194	0.0143
94	475	1210	505	SLD 3	-0.3717	0.92359	-0.1079	-0.0866	-0.0137	-0.0142
94	475	1210	505	SLD 4	-0.3717	0.92359	-0.1079	-0.0866	-0.0137	-0.0142
94	475	1210	505	SLD 5	-0.37827	-3.08146	-0.1082	0.289	-0.0148	0.0477
94	475	1210	505	SLD 6	-0.37827	-3.08146	-0.1082	0.289	-0.0148	0.0477
94	475	1210	505	SLD 7	-0.09951	3.07906	-0.08072	-0.2893	0.0044	-0.0474
94	475	1210	505	SLD 8	-0.09951	3.07906	-0.08072	-0.2893	0.0044	-0.0474
94	475	1210	505	SLD 9	-0.22861	-3.08153	-0.09316	0.2891	-0.0051	0.0477
94	475	1210	505	SLD 10	-0.22861	-3.08153	-0.09316	0.2891	-0.0051	0.0477
94	475	1210	505	SLD 11	0.05015	3.07913	-0.06568	-0.2893	0.0141	-0.0474
94	475	1210	505	SLD 12	0.05015	3.07913	-0.06568	-0.2893	0.0141	-0.0474
94	475	1210	505	SLD 13	0.04356	-0.92466	-0.066	0.0868	0.0129	0.0143
94	475	1210	505	SLD 14	0.04356	-0.92466	-0.066	0.0868	0.0129	0.0143
94	475	1210	505	SLD 15	0.12714	0.92394	-0.05776	-0.0869	0.0187	-0.0142
94	475	1210	505	SLD 16	0.12714	0.92394	-0.05776	-0.0869	0.0187	-0.0142
94	475	1210	505	SLV 1	-0.91225	-2.37455	-0.16194	0.2226	-0.0493	0.0367
94	475	1210	505	SLV 2	-0.91225	-2.37455	-0.16194	0.2226	-0.0493	0.0367
94	475	1210	505	SLV 3	-0.69743	2.37271	-0.14076	-0.2227	-0.0345	-0.0365
94	475	1210	505	SLV 4	-0.69743	2.37271	-0.14076	-0.2227	-0.0345	-0.0365
94	475	1210	505	SLV 5	-0.71432	-7.91567	-0.14155	0.7425	-0.0375	0.1225
94	475	1210	505	SLV 6	-0.71432	-7.91567	-0.14155	0.7425	-0.0375	0.1225
94	475	1210	505	SLV 7	0.00187	7.90951	-0.07094	-0.7432	0.0118	-0.1218
94	475	1210	505	SLV 8	0.00187	7.90951	-0.07094	-0.7432	0.0118	-0.1218
94	475	1210	505	SLV 9	-0.32985	-7.91584	-0.10291	0.7426	-0.0126	0.1225
94	475	1210	505	SLV 10	-0.32985	-7.91584	-0.10291	0.7426	-0.0126	0.1225
94	475	1210	505	SLV 11	0.38633	7.90967	-0.03229	-0.7433	0.0368	-0.1218
94	475	1210	505	SLV 12	0.38633	7.90967	-0.03229	-0.7433	0.0368	-0.1218
94	475	1210	505	SLV 13	0.3693	-2.37512	-0.03313	0.2229	0.0338	0.0368
94	475	1210	505	SLV 14	0.3693	-2.37512	-0.03313	0.2229	0.0338	0.0368
94	475	1210	505	SLV 15	0.58411	2.37326	-0.01195	-0.2232	0.0486	-0.0366
94	475	1210	505	SLV 16	0.58411	2.37326	-0.01195	-0.2232	0.0486	-0.0366
94	475	1210	505	SLV FO 1	-0.91225	-2.37455	-0.16194	0.2226	-0.0493	0.0367
94	475	1210	505	SLV FO 2	-0.91225	-2.37455	-0.16194	0.2226	-0.0493	0.0367
94	475	1210	505	SLV FO 3	-0.69743	2.37271	-0.14076	-0.2227	-0.0345	-0.0365
94	475	1210	505	SLV FO 4	-0.69743	2.37271	-0.14076	-0.2227	-0.0345	-0.0365
94	475	1210	505	SLV FO 5	-0.71432	-7.91567	-0.14155	0.7425	-0.0375	0.1225
94	475	1210	505	SLV FO 6	-0.71432	-7.91567	-0.14155	0.7425	-0.0375	0.1225
94	475	1210	505	SLV FO 7	0.00187	7.90951	-0.07094	-0.7432	0.0118	-0.1218
94	475	1210	505	SLV FO 8	0.00187	7.90951	-0.07094	-0.7432	0.0118	-0.1218
94	475	1210	505	SLV FO 9	-0.32985	-7.91584	-0.10291	0.7426	-0.0126	0.1225
94	475	1210	505	SLV FO 10	-0.32985	-7.91584	-0.10291	0.7426	-0.0126	0.1225
94	475	1210	505	SLV FO 11	0.38633	7.90967	-0.03229	-0.7433	0.0368	-0.1218
94	475	1210	505	SLV FO 12	0.38633	7.90967	-0.03229	-0.7433	0.0368	-0.1218
94	475	1210	505	SLV FO 13	0.3693	-2.37512	-0.03313	0.2229	0.0338	0.0368
94	475	1210	505	SLV FO 14	0.3693	-2.37512	-0.03313	0.2229	0.0338	0.0368
94	475	1210	505	SLV FO 15	0.58411	2.37326	-0.01195	-0.2232	0.0486	-0.0366
94	475	1210	505	SLV FO 16	0.58411	2.37326	-0.01195	-0.2232	0.0486	-0.0366
95	575	210	519.7	SLU 1	-0.13241	0.00005	-0.08557	0	0.0063	0
95	575	210	519.7	SLU 2	0.00654	1.09918	-0.06101	-0.1224	-0.0037	-0.0073
95	575	210	519.7	SLU 3	0.19137	1.09896	-0.04696	-0.1224	-0.0063	-0.0073
95	575	210	519.7	SLU 4	0.17578	0.00032	-0.06217	-0.0001	0.002	0
95	575	210	519.7	SLU 5	0.25904	0.65942	-0.04743	-0.0734	-0.004	-0.0044
95	575	210	519.7	SLU 6	-0.04247	1.09935	-0.06827	-0.1224	-0.0009	-0.0073
95	575	210	519.7	SLU 7	0.14231	1.09894	-0.05422	-0.1224	-0.0035	-0.0073
95	575	210	519.7	SLU 8	0.12671	0.00025	-0.06943	0	0.0048	0
95	575	210	519.7	SLU 9	0.21001	0.65942	-0.05469	-0.0734	-0.0013	-0.0044
95	575	210	519.7	SLU 10	-0.23049	0.00021	-0.10009	-0.0001	0.0119	0
95	575	210	519.7	SLU 11	-0.14706	0.65978	-0.08535	-0.0735	0.0059	-0.0044
95	575	210	519.7	SLU 12	-0.04565	0.00003	-0.08605	0	0.0093	0
95	575	210	519.7	SLU 13	0.0377	0.65938	-0.07131	-0.0734	0.0033	-0.0044
95	575	210	519.7	SLU 14	-0.17917	0.00013	-0.09244	0	0.0088	0
95	575	210	519.7	SLU 15	-0.04018	1.09935	-0.06787	-0.1224	-0.0012	-0.0073
95	575	210	519.7	SLU 16	0.14459	1.09894	-0.05383	-0.1224	-0.0038	-0.0073
95	575	210	519.7	SLU 17	0.12899	0.00025	-0.06903	0	0.0045	0
95	575	210	519.7	SLU 18	0.21229	0.65942	-0.0543	-0.0734	-0.0015	-0.0044
95	575	210	519.7	SLU 19	-0.08923	1.09936	-0.07513	-0.1224	0.0016	-0.0073
95	575	210	519.7	SLU 20	0.09553	1.09892	-0.06109	-0.1224	-0.001	-0.0073
95	575	210	519.7	SLU 21	0.07992	0.00018	-0.07629	0	0.0073	0
95	575	210	519.7	SLU 22	0.16323	0.65936	-0.06156	-0.0734	0.0012	-0.0044
95	575	210	519.7	SLU 23	-0.27725	0.00029	-0.10696	-0.0001	0.0144	0
95	575	210	519.7	SLU 24	-0.19383	0.65975	-0.09222	-0.0735	0.0084	-0.0044
95	575	210	519.7	SLU 25	-0.09244	0.00006	-0.09291	0	0.0118	0
95	575	210	519.7	SLU 26	-0.00903	0.65956	-0.07818	-0.0735	0.0058	-0.0044
95	575	210	519.7	SLU 27	-0.17213	0.00007	-0.11124	0	0.0082	0
95	575	210	519.7	SLU 28	-0.03319	1.09919	-0.08668	-0.1224	-0.0018	-0.0073
95	575	210	519.7	SLU 29	0.15164	1.09896	-0.07263	-0.1224	-0.0044	-0.0073
95	575	210	519.7	SLU 30	0.13604	0.00031	-0.08784	-0.0001	0.0039	0
95	575	210	519.7	SLU 31	0.21931	0.6594	-0.0731	-0.0734	-0.0021	-0.0044
95	575	210	519.7	SLU 32	-0.08219	1.09938	-0.09394	-0.1224	0.001	-0.0073
95	575	210	519.7	SLU 33	0.10258	1.09894	-0.07989	-0.1224	-0.0016	-0.0073
95	575	210	519.7	SLU 34	0.08697	0.00023	-0.0951	0	0.0067	0
95	575	210	519.7	SLU 35	0.17027	0.6594	-0.08036	-0.0734	0.0006	-0.0044
95	575	210	519.7	SLU 36	-0.27021	0.00023	-0.12576	-0.0001	0.0138	0
95	575	210	519.7	SLU 37	-0.18679	0.65981	-0.11102	-0.0735	0.0078	-0.0044
95	575	210	519.7	SLU 38	-0.08539	0	-0.11172	0	0.0112	0
95	575	210	519.7	SLU 39	-0.00203	0.65938	-0.09698	-0.0734	0.0052	-0.0044
95	575	210	519.7	SLU 40	-0.21889	0.00014	-0.11811	0	0.0107	0
95	575	210	519.7	SLU 41	-0.07991	1.09937	-0.09354	-0.1224	0.0007	-0.0073
95	575	210	519.7	SLU 42	0.10486	1.09894	-0.0795	-0.1224	-0.0019	-0.0073
95	575	210	519.7	SLU 43	0.08925	0.00024	-0.09471	0	0.0064	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
95	575	210	519.7	SLU 44	0.17256	0.65941	-0.07997	-0.0734	0.0004	-0.0044
95	575	210	519.7	SLU 45	-0.12893	1.09951	-0.1008	-0.1225	0.0035	-0.0074
95	575	210	519.7	SLU 46	0.05581	1.09896	-0.08676	-0.1224	0.0009	-0.0073
95	575	210	519.7	SLU 47	0.04019	0.00016	-0.10197	0	0.0092	0
95	575	210	519.7	SLU 48	0.1235	0.65935	-0.08723	-0.0734	0.0031	-0.0044
95	575	210	519.7	SLU 49	-0.31697	0.00031	-0.13263	-0.0001	0.0163	0
95	575	210	519.7	SLU 50	-0.23355	0.65979	-0.11789	-0.0735	0.0103	-0.0044
95	575	210	519.7	SLU 51	-0.13211	0.00007	-0.11859	0	0.0137	0
95	575	210	519.7	SLU 52	-0.04875	0.65961	-0.10385	-0.0735	0.0077	-0.0044
95	575	210	519.7	SLE RA 1	-0.16358	0.0001	-0.09015	0	0.008	0
95	575	210	519.7	SLE RA 2	-0.07093	0.73293	-0.07377	-0.0816	0.0013	-0.0049
95	575	210	519.7	SLE RA 3	0.05225	0.73263	-0.06441	-0.0816	-0.0004	-0.0049
95	575	210	519.7	SLE RA 4	0.04184	0.00015	-0.07455	0	0.0051	0
95	575	210	519.7	SLE RA 5	0.09738	0.4396	-0.06472	-0.0489	0.0011	-0.0029
95	575	210	519.7	SLE RA 6	-0.10359	0.73311	-0.07861	-0.0817	0.0032	-0.0049
95	575	210	519.7	SLE RA 7	0.01957	0.73271	-0.06925	-0.0816	0.0014	-0.0049
95	575	210	519.7	SLE RA 8	0.00913	0.0001	-0.07939	0	0.007	0
95	575	210	519.7	SLE RA 9	0.06467	0.43957	-0.06956	-0.0489	0.0029	-0.0029
95	575	210	519.7	SLE RA 10	-0.22897	0.00021	-0.09983	-0.0001	0.0117	0
95	575	210	519.7	SLE RA 11	-0.17335	0.43984	-0.09	-0.049	0.0077	-0.0029
95	575	210	519.7	SLE RA 12	-0.10573	0.00005	-0.09047	0	0.01	0
95	575	210	519.7	SLE RA 13	-0.05015	0.43974	-0.08064	-0.049	0.006	-0.0029
95	575	210	519.7	SLE FR 1	-0.16358	0.0001	-0.09015	0	0.008	0
95	575	210	519.7	SLE FR 2	-0.14504	0.1466	-0.08687	-0.0163	0.0067	-0.001
95	575	210	519.7	SLE FR 3	-0.1225	0.00005	-0.08703	0	0.0074	0
95	575	210	519.7	SLE FR 4	-0.17666	0.00012	-0.09208	0	0.0087	0
95	575	210	519.7	SLE QP 1	-0.16358	0.0001	-0.09015	0	0.008	0
95	575	210	519.7	SLD 1	-0.37434	-0.92506	-0.08977	0.1048	-0.0018	0.0121
95	575	210	519.7	SLD 2	-0.37434	-0.92506	-0.08977	0.1048	-0.0018	0.0121
95	575	210	519.7	SLD 3	-0.45935	0.92567	-0.08873	-0.1048	-0.0061	-0.0122
95	575	210	519.7	SLD 4	-0.45935	0.92567	-0.08873	-0.1048	-0.0061	-0.0122
95	575	210	519.7	SLD 5	-0.09784	-3.08382	-0.09161	0.3494	0.0117	0.0405
95	575	210	519.7	SLD 6	-0.09784	-3.08382	-0.09161	0.3494	0.0117	0.0405
95	575	210	519.7	SLD 7	-0.38127	3.08581	-0.08814	-0.3494	-0.0029	-0.0407
95	575	210	519.7	SLD 8	-0.38127	3.08581	-0.08814	-0.3494	-0.0029	-0.0407
95	575	210	519.7	SLD 9	0.05412	-3.08387	-0.09215	0.3494	0.0189	0.0405
95	575	210	519.7	SLD 10	0.05412	-3.08387	-0.09215	0.3494	0.0189	0.0405
95	575	210	519.7	SLD 11	-0.22932	3.08586	-0.08868	-0.3494	0.0043	-0.0407
95	575	210	519.7	SLD 12	-0.22932	3.08586	-0.08868	-0.3494	0.0043	-0.0407
95	575	210	519.7	SLD 13	0.13215	-0.92535	-0.09157	0.1049	0.0221	0.0122
95	575	210	519.7	SLD 14	0.13215	-0.92535	-0.09157	0.1049	0.0221	0.0122
95	575	210	519.7	SLD 15	0.04716	0.92595	-0.09052	-0.1048	0.0178	-0.0122
95	575	210	519.7	SLD 16	0.04716	0.92595	-0.09052	-0.1048	0.0178	-0.0122
95	575	210	519.7	SLV 1	-0.70497	-2.37643	-0.08917	0.2692	-0.0171	0.0312
95	575	210	519.7	SLV 2	-0.70497	-2.37643	-0.08917	0.2692	-0.0171	0.0312
95	575	210	519.7	SLV 3	-0.92339	2.37796	-0.0865	-0.2692	-0.0283	-0.0313
95	575	210	519.7	SLV 4	-0.92339	2.37796	-0.0865	-0.2692	-0.0283	-0.0313
95	575	210	519.7	SLV 5	0.00541	-7.92172	-0.09391	0.8976	0.0175	0.1041
95	575	210	519.7	SLV 6	0.00541	-7.92172	-0.09391	0.8976	0.0175	0.1041
95	575	210	519.7	SLV 7	-0.7228	7.92681	-0.08499	-0.8975	-0.0199	-0.1045
95	575	210	519.7	SLV 8	-0.7228	7.92681	-0.08499	-0.8975	-0.0199	-0.1045
95	575	210	519.7	SLV 9	0.39576	-7.92186	-0.0953	0.8977	0.0359	0.1041
95	575	210	519.7	SLV 10	0.39576	-7.92186	-0.0953	0.8977	0.0359	0.1041
95	575	210	519.7	SLV 11	-0.33245	7.92695	-0.08637	-0.8975	-0.0015	-0.1045
95	575	210	519.7	SLV 12	-0.33245	7.92695	-0.08637	-0.8975	-0.0015	-0.1045
95	575	210	519.7	SLV 13	0.59621	-2.37687	-0.09379	0.2694	0.0443	0.0313
95	575	210	519.7	SLV 14	0.59621	-2.37687	-0.09379	0.2694	0.0443	0.0313
95	575	210	519.7	SLV 15	0.3778	2.3784	-0.09112	-0.2693	0.0331	-0.0314
95	575	210	519.7	SLV 16	0.3778	2.3784	-0.09112	-0.2693	0.0331	-0.0314
95	575	210	519.7	SLV FO 1	-0.70497	-2.37643	-0.08917	0.2692	-0.0171	0.0312
95	575	210	519.7	SLV FO 2	-0.70497	-2.37643	-0.08917	0.2692	-0.0171	0.0312
95	575	210	519.7	SLV FO 3	-0.92339	2.37796	-0.0865	-0.2692	-0.0283	-0.0313
95	575	210	519.7	SLV FO 4	-0.92339	2.37796	-0.0865	-0.2692	-0.0283	-0.0313
95	575	210	519.7	SLV FO 5	0.00541	-7.92172	-0.09391	0.8976	0.0175	0.1041
95	575	210	519.7	SLV FO 6	0.00541	-7.92172	-0.09391	0.8976	0.0175	0.1041
95	575	210	519.7	SLV FO 7	-0.7228	7.92681	-0.08499	-0.8975	-0.0199	-0.1045
95	575	210	519.7	SLV FO 8	-0.7228	7.92681	-0.08499	-0.8975	-0.0199	-0.1045
95	575	210	519.7	SLV FO 9	0.39576	-7.92186	-0.0953	0.8977	0.0359	0.1041
95	575	210	519.7	SLV FO 10	0.39576	-7.92186	-0.0953	0.8977	0.0359	0.1041
95	575	210	519.7	SLV FO 11	-0.33245	7.92695	-0.08637	-0.8975	-0.0015	-0.1045
95	575	210	519.7	SLV FO 12	-0.33245	7.92695	-0.08637	-0.8975	-0.0015	-0.1045
95	575	210	519.7	SLV FO 13	0.59621	-2.37687	-0.09379	0.2694	0.0443	0.0313
95	575	210	519.7	SLV FO 14	0.59621	-2.37687	-0.09379	0.2694	0.0443	0.0313
95	575	210	519.7	SLV FO 15	0.3778	2.3784	-0.09112	-0.2693	0.0331	-0.0314
95	575	210	519.7	SLV FO 16	0.3778	2.3784	-0.09112	-0.2693	0.0331	-0.0314
96	575	710	519.7	SLU 1	-0.1414	0	-0.09026	0	0.0081	0
96	575	710	519.7	SLU 2	0.07023	1.09803	-0.042	-0.1233	-0.0152	-0.0074
96	575	710	519.7	SLU 3	0.29801	1.09757	-0.01384	-0.1232	-0.026	-0.0073
96	575	710	519.7	SLU 4	0.23818	0	-0.04333	0	-0.0099	0
96	575	710	519.7	SLU 5	0.36524	0.65837	-0.01437	-0.0739	-0.0239	-0.0044
96	575	710	519.7	SLU 6	0.00673	1.09827	-0.05658	-0.1234	-0.0079	-0.0074
96	575	710	519.7	SLU 7	0.23457	1.09763	-0.02842	-0.1232	-0.0187	-0.0073
96	575	710	519.7	SLU 8	0.17473	0	-0.05791	0	-0.0026	0
96	575	710	519.7	SLU 9	0.30177	0.65844	-0.02895	-0.0739	-0.0166	-0.0044
96	575	710	519.7	SLU 10	-0.26838	0	-0.11942	0	0.0227	0
96	575	710	519.7	SLU 11	-0.14142	0.65922	-0.09046	-0.0741	0.0087	-0.0045
96	575	710	519.7	SLU 12	-0.04052	0	-0.09126	0	0.0119	0
96	575	710	519.7	SLU 13	0.08646	0.65863	-0.0623	-0.074	-0.0021	-0.0044
96	575	710	519.7	SLU 14	-0.20188	0	-0.10405	0	0.0147	0
96	575	710	519.7	SLU 15	0.00974	1.09827	-0.05579	-0.1234	-0.0086	-0.0074
96	575	710	519.7	SLU 16	0.23758	1.09763	-0.02763	-0.1232	-0.0194	-0.0073
96	575	710	519.7	SLU 17	0.17774	0	-0.05712	0	-0.0032	0
96	575	710	519.7	SLU 18	0.30478	0.65844	-0.02816	-0.0739	-0.0172	-0.0044
96	575	710	519.7	SLU 19	-0.05371	1.09836	-0.07037	-0.1234	-0.0013	-0.0074
96	575	710	519.7	SLU 20	0.17413	1.09768	-0.04221	-0.1233	-0.0121	-0.0073
96	575	710	519.7	SLU 21	0.1143	0	-0.07169	0	0.0041	0
96	575	710	519.7	SLU 22	0.2413	0.65845	-0.04274	-0.0739	-0.0099	-0.0044
96	575	710	519.7	SLU 23	-0.32885	0	-0.1332	0	0.0293	0
96	575	710	519.7	SLU 24	-0.2019	0.65923	-0.10425	-0.0741	0.0153	-0.0045
96	575	710	519.7	SLU 25	-0.10096	0	-0.10505	0	0.0185	0
96	575	710	519.7	SLU 26	0.02597	0.65888	-0.07609	-0.074	0.0046	-0.0044
96	575	710	519.7	SLU 27	-0.18383	0	-0.11734	0	0.0105	0
96	575	710	519.7	SLU 28	0.02782	1.09805	-0.06908	-0.1233	-0.0128	-0.0074

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
96	575	710	519.7	SLU 29	0.25561	1.09759	-0.04092	-0.1232	-0.0236	-0.0073
96	575	710	519.7	SLU 30	0.19578	0	-0.07041	0	-0.0075	0
96	575	710	519.7	SLU 31	0.32284	0.65836	-0.04145	-0.0739	-0.0215	-0.0044
96	575	710	519.7	SLU 32	-0.03568	1.09831	-0.08366	-0.1234	-0.0055	-0.0074
96	575	710	519.7	SLU 33	0.19217	1.09765	-0.0555	-0.1232	-0.0163	-0.0073
96	575	710	519.7	SLU 34	0.13233	0	-0.08498	0	-0.0002	0
96	575	710	519.7	SLU 35	0.25937	0.65844	-0.05603	-0.0739	-0.0142	-0.0044
96	575	710	519.7	SLU 36	-0.3108	0	-0.1465	0	0.0251	0
96	575	710	519.7	SLU 37	-0.18384	0.65926	-0.11754	-0.0741	0.0111	-0.0045
96	575	710	519.7	SLU 38	-0.08292	0	-0.11834	0	0.0143	0
96	575	710	519.7	SLU 39	0.04406	0.65865	-0.08938	-0.074	0.0003	-0.0044
96	575	710	519.7	SLU 40	-0.2443	0	-0.13113	0	0.0171	0
96	575	710	519.7	SLU 41	-0.03267	1.0983	-0.08287	-0.1234	-0.0062	-0.0074
96	575	710	519.7	SLU 42	0.19518	1.09764	-0.05471	-0.1232	-0.0169	-0.0073
96	575	710	519.7	SLU 43	0.13534	0	-0.08419	0	-0.0008	0
96	575	710	519.7	SLU 44	0.26238	0.65844	-0.05524	-0.0739	-0.0148	-0.0044
96	575	710	519.7	SLU 45	-0.09616	1.09852	-0.09745	-0.1234	0.0011	-0.0074
96	575	710	519.7	SLU 46	0.13172	1.09774	-0.06929	-0.1233	-0.0096	-0.0073
96	575	710	519.7	SLU 47	0.0719	0	-0.09877	0	0.0065	0
96	575	710	519.7	SLU 48	0.1989	0.65847	-0.06982	-0.0739	-0.0075	-0.0044
96	575	710	519.7	SLU 49	-0.37127	0	-0.16028	0	0.0317	0
96	575	710	519.7	SLU 50	-0.24431	0.65927	-0.13133	-0.0741	0.0178	-0.0045
96	575	710	519.7	SLU 51	-0.14348	0	-0.13212	0	0.021	0
96	575	710	519.7	SLU 52	-0.01645	0.65894	-0.10317	-0.074	0.007	-0.0044
96	575	710	519.7	SLE RA 1	-0.18172	0	-0.09945	0	0.0125	0
96	575	710	519.7	SLE RA 2	-0.04062	0.73222	-0.06728	-0.0823	-0.003	-0.0049
96	575	710	519.7	SLE RA 3	0.11127	0.73177	-0.04851	-0.0822	-0.0102	-0.0049
96	575	710	519.7	SLE RA 4	0.07138	0	-0.06817	0	0.0005	0
96	575	710	519.7	SLE RA 5	0.15607	0.43896	-0.04886	-0.0493	-0.0088	-0.0029
96	575	710	519.7	SLE RA 6	-0.08298	0.73246	-0.077	-0.0823	0.0018	-0.005
96	575	710	519.7	SLE RA 7	0.06895	0.7319	-0.05823	-0.0822	-0.0054	-0.0049
96	575	710	519.7	SLE RA 8	0.02909	0	-0.07788	0	0.0054	0
96	575	710	519.7	SLE RA 9	0.11375	0.43898	-0.05858	-0.0493	-0.0039	-0.0029
96	575	710	519.7	SLE RA 10	-0.26637	0	-0.11889	0	0.0222	0
96	575	710	519.7	SLE RA 11	-0.18173	0.43949	-0.09959	-0.0494	0.0129	-0.003
96	575	710	519.7	SLE RA 12	-0.11451	0	-0.10012	0	0.015	0
96	575	710	519.7	SLE RA 13	-0.02981	0.43931	-0.08081	-0.0493	0.0057	-0.0029
96	575	710	519.7	SLE FR 1	-0.18172	0	-0.09945	0	0.0125	0
96	575	710	519.7	SLE FR 2	-0.15351	0.1465	-0.09302	-0.0165	0.0094	-0.001
96	575	710	519.7	SLE FR 3	-0.1311	0	-0.0932	0	0.0101	0
96	575	710	519.7	SLE FR 4	-0.19865	0	-0.10334	0	0.0144	0
96	575	710	519.7	SLE QP 1	-0.18172	0	-0.09945	0	0.0125	0
96	575	710	519.7	SLD 1	-0.45904	-0.92544	-0.09844	0.1049	-0.0004	0.0123
96	575	710	519.7	SLD 2	-0.45904	-0.92544	-0.09844	0.1049	-0.0004	0.0123
96	575	710	519.7	SLD 3	-0.45904	0.92544	-0.09844	-0.1049	-0.0004	-0.0123
96	575	710	519.7	SLD 4	-0.45904	0.92544	-0.09844	-0.1049	-0.0004	-0.0123
96	575	710	519.7	SLD 5	-0.2647	-3.08476	-0.09915	0.3496	0.0086	0.0408
96	575	710	519.7	SLD 6	-0.2647	-3.08476	-0.09915	0.3496	0.0086	0.0408
96	575	710	519.7	SLD 7	-0.2647	3.08476	-0.09915	-0.3496	0.0086	-0.0408
96	575	710	519.7	SLD 8	-0.2647	3.08476	-0.09915	-0.3496	0.0086	-0.0408
96	575	710	519.7	SLD 9	-0.09826	-3.08477	-0.09976	0.3496	0.0164	0.0407
96	575	710	519.7	SLD 10	-0.09826	-3.08477	-0.09976	0.3496	0.0164	0.0407
96	575	710	519.7	SLD 11	-0.09826	3.08477	-0.09976	-0.3496	0.0164	-0.0407
96	575	710	519.7	SLD 12	-0.09826	3.08477	-0.09976	-0.3496	0.0164	-0.0407
96	575	710	519.7	SLD 13	0.09579	-0.92561	-0.10047	0.1049	0.0254	0.0122
96	575	710	519.7	SLD 14	0.09579	-0.92561	-0.10047	0.1049	0.0254	0.0122
96	575	710	519.7	SLD 15	0.09579	0.92561	-0.10047	-0.1049	0.0254	-0.0122
96	575	710	519.7	SLD 16	0.09579	0.92561	-0.10047	-0.1049	0.0254	-0.0122
96	575	710	519.7	SLV 1	-0.89413	-2.37729	-0.09685	0.2695	-0.0206	0.0315
96	575	710	519.7	SLV 2	-0.89413	-2.37729	-0.09685	0.2695	-0.0206	0.0315
96	575	710	519.7	SLV 3	-0.89413	2.37729	-0.09685	-0.2695	-0.0206	-0.0315
96	575	710	519.7	SLV 4	-0.89413	2.37729	-0.09685	-0.2695	-0.0206	-0.0315
96	575	710	519.7	SLV 5	-0.39498	-7.92405	-0.09867	0.8981	0.0026	0.1047
96	575	710	519.7	SLV 6	-0.39498	-7.92405	-0.09867	0.8981	0.0026	0.1047
96	575	710	519.7	SLV 7	-0.39498	7.92405	-0.09867	-0.8981	0.0026	-0.1047
96	575	710	519.7	SLV 8	-0.39498	7.92405	-0.09867	-0.8981	0.0026	-0.1047
96	575	710	519.7	SLV 9	0.03259	-7.92409	-0.10023	0.898	0.0224	0.1046
96	575	710	519.7	SLV 10	0.03259	-7.92409	-0.10023	0.898	0.0224	0.1046
96	575	710	519.7	SLV 11	0.03259	7.92409	-0.10023	-0.898	0.0224	-0.1046
96	575	710	519.7	SLV 12	0.03259	7.92409	-0.10023	-0.898	0.0224	-0.1046
96	575	710	519.7	SLV 13	0.53108	-2.37744	-0.10205	0.2694	0.0456	0.0313
96	575	710	519.7	SLV 14	0.53108	-2.37744	-0.10205	0.2694	0.0456	0.0313
96	575	710	519.7	SLV 15	0.53108	2.37744	-0.10205	-0.2694	0.0456	-0.0313
96	575	710	519.7	SLV 16	0.53108	2.37744	-0.10205	-0.2694	0.0456	-0.0313
96	575	710	519.7	SLV FO 1	-0.89413	-2.37729	-0.09685	0.2695	-0.0206	0.0315
96	575	710	519.7	SLV FO 2	-0.89413	-2.37729	-0.09685	0.2695	-0.0206	0.0315
96	575	710	519.7	SLV FO 3	-0.89413	2.37729	-0.09685	-0.2695	-0.0206	-0.0315
96	575	710	519.7	SLV FO 4	-0.89413	2.37729	-0.09685	-0.2695	-0.0206	-0.0315
96	575	710	519.7	SLV FO 5	-0.39498	-7.92405	-0.09867	0.8981	0.0026	0.1047
96	575	710	519.7	SLV FO 6	-0.39498	-7.92405	-0.09867	0.8981	0.0026	0.1047
96	575	710	519.7	SLV FO 7	-0.39498	7.92405	-0.09867	-0.8981	0.0026	-0.1047
96	575	710	519.7	SLV FO 8	-0.39498	7.92405	-0.09867	-0.8981	0.0026	-0.1047
96	575	710	519.7	SLV FO 9	0.03259	-7.92409	-0.10023	0.898	0.0224	0.1046
96	575	710	519.7	SLV FO 10	0.03259	-7.92409	-0.10023	0.898	0.0224	0.1046
96	575	710	519.7	SLV FO 11	0.03259	7.92409	-0.10023	-0.898	0.0224	-0.1046
96	575	710	519.7	SLV FO 12	0.03259	7.92409	-0.10023	-0.898	0.0224	-0.1046
96	575	710	519.7	SLV FO 13	0.53108	-2.37744	-0.10205	0.2694	0.0456	0.0313
96	575	710	519.7	SLV FO 14	0.53108	-2.37744	-0.10205	0.2694	0.0456	0.0313
96	575	710	519.7	SLV FO 15	0.53108	2.37744	-0.10205	-0.2694	0.0456	-0.0313
96	575	710	519.7	SLV FO 16	0.53108	2.37744	-0.10205	-0.2694	0.0456	-0.0313
97	575	1210	519.7	SLU 1	-0.13241	-0.00005	-0.08557	0	0.0063	0
97	575	1210	519.7	SLU 2	0.05606	1.09759	-0.06207	-0.1233	-0.0011	-0.0073
97	575	1210	519.7	SLU 3	0.241	1.09725	-0.04803	-0.1233	-0.0037	-0.0073
97	575	1210	519.7	SLU 4	0.17578	-0.00032	-0.06217	0.0001	0.002	0
97	575	1210	519.7	SLU 5	0.28886	0.65806	-0.04807	-0.0739	-0.0025	-0.0044
97	575	1210	519.7	SLU 6	0.00699	1.09779	-0.06933	-0.1233	0.0017	-0.0073
97	575	1210	519.7	SLU 7	0.19193	1.09726	-0.05529	-0.1233	-0.0009	-0.0073
97	575	1210	519.7	SLU 8	0.12671	-0.00025	-0.06943	0	0.0048	0
97	575	1210	519.7	SLU 9	0.23979	0.65821	-0.05533	-0.074	0.0003	-0.0044
97	575	1210	519.7	SLU 10	-0.23049	-0.00021	-0.10009	0.0001	0.0119	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
97	575	1210	519.7	SLU 11	-0.11746	0.65884	-0.08599	-0.074	0.0074	-0.0044
97	575	1210	519.7	SLU 12	-0.04565	-0.00003	-0.08605	0	0.0093	0
97	575	1210	519.7	SLU 13	0.06745	0.65839	-0.07195	-0.074	0.0048	-0.0044
97	575	1210	519.7	SLU 14	-0.17917	-0.00013	-0.09244	0	0.0088	0
97	575	1210	519.7	SLU 15	0.00927	1.09779	-0.06894	-0.1233	0.0014	-0.0073
97	575	1210	519.7	SLU 16	0.19421	1.09726	-0.0549	-0.1233	-0.0012	-0.0073
97	575	1210	519.7	SLU 17	0.12899	-0.00025	-0.06903	0	0.0045	0
97	575	1210	519.7	SLU 18	0.24207	0.65821	-0.05494	-0.074	0	-0.0044
97	575	1210	519.7	SLU 19	-0.03981	1.09784	-0.0762	-0.1232	0.0042	-0.0073
97	575	1210	519.7	SLU 20	0.14514	1.09728	-0.06216	-0.1232	0.0016	-0.0073
97	575	1210	519.7	SLU 21	0.07992	-0.00018	-0.07629	0	0.0073	0
97	575	1210	519.7	SLU 22	0.19303	0.65829	-0.0622	-0.074	0.0028	-0.0044
97	575	1210	519.7	SLU 23	-0.27725	-0.00029	-0.10696	0.0001	0.0144	0
97	575	1210	519.7	SLU 24	-0.16422	0.65877	-0.09286	-0.0739	0.0099	-0.0044
97	575	1210	519.7	SLU 25	-0.09244	-0.00006	-0.09291	0	0.0118	0
97	575	1210	519.7	SLU 26	0.02066	0.6586	-0.07882	-0.074	0.0073	-0.0044
97	575	1210	519.7	SLU 27	-0.17213	-0.00007	-0.11124	0	0.0082	0
97	575	1210	519.7	SLU 28	0.01632	1.09761	-0.08774	-0.1233	0.0008	-0.0073
97	575	1210	519.7	SLU 29	0.20127	1.09726	-0.0737	-0.1233	-0.0018	-0.0073
97	575	1210	519.7	SLU 30	0.13604	-0.00031	-0.08784	0.0001	0.0039	0
97	575	1210	519.7	SLU 31	0.24913	0.65807	-0.07374	-0.0739	-0.0006	-0.0044
97	575	1210	519.7	SLU 32	-0.03275	1.09782	-0.095	-0.1233	0.0036	-0.0073
97	575	1210	519.7	SLU 33	0.15219	1.09727	-0.08096	-0.1233	0.001	-0.0073
97	575	1210	519.7	SLU 34	0.08697	-0.00023	-0.0951	0	0.0067	0
97	575	1210	519.7	SLU 35	0.20006	0.65823	-0.081	-0.074	0.0022	-0.0044
97	575	1210	519.7	SLU 36	-0.27021	-0.00023	-0.12576	0.0001	0.0138	0
97	575	1210	519.7	SLU 37	-0.15719	0.65886	-0.11166	-0.074	0.0093	-0.0044
97	575	1210	519.7	SLU 38	-0.08539	0	-0.11172	0	0.0112	0
97	575	1210	519.7	SLU 39	0.02771	0.6584	-0.09762	-0.0739	0.0067	-0.0044
97	575	1210	519.7	SLU 40	-0.21889	-0.00014	-0.11811	0	0.0107	0
97	575	1210	519.7	SLU 41	-0.03047	1.09782	-0.09461	-0.1233	0.0033	-0.0073
97	575	1210	519.7	SLU 42	0.15447	1.09727	-0.08057	-0.1233	0.0007	-0.0073
97	575	1210	519.7	SLU 43	0.08925	-0.00024	-0.09471	0	0.0064	0
97	575	1210	519.7	SLU 44	0.20234	0.65823	-0.08061	-0.074	0.0019	-0.0044
97	575	1210	519.7	SLU 45	-0.07953	1.09799	-0.10187	-0.1233	0.0061	-0.0073
97	575	1210	519.7	SLU 46	0.1054	1.09732	-0.08783	-0.1232	0.0035	-0.0073
97	575	1210	519.7	SLU 47	0.04019	-0.00016	-0.10197	0	0.0092	0
97	575	1210	519.7	SLU 48	0.1533	0.6583	-0.08787	-0.074	0.0047	-0.0044
97	575	1210	519.7	SLU 49	-0.31697	-0.00031	-0.13263	0.0001	0.0163	0
97	575	1210	519.7	SLU 50	-0.20396	0.65879	-0.11853	-0.0739	0.0118	-0.0044
97	575	1210	519.7	SLU 51	-0.13211	-0.00007	-0.11859	0	0.0137	0
97	575	1210	519.7	SLU 52	-0.01907	0.65865	-0.10449	-0.074	0.0092	-0.0044
97	575	1210	519.7	SLE RA 1	-0.16358	-0.0001	-0.09015	0	0.008	0
97	575	1210	519.7	SLE RA 2	-0.03797	0.73189	-0.07448	-0.0822	0.003	-0.0048
97	575	1210	519.7	SLE RA 3	0.08532	0.73152	-0.06512	-0.0822	0.0013	-0.0049
97	575	1210	519.7	SLE RA 4	0.04184	-0.00015	-0.07455	0	0.0051	0
97	575	1210	519.7	SLE RA 5	0.11723	0.43883	-0.06515	-0.0493	0.0021	-0.003
97	575	1210	519.7	SLE RA 6	-0.07068	0.7321	-0.07932	-0.0822	0.0049	-0.0049
97	575	1210	519.7	SLE RA 7	0.05261	0.73162	-0.06996	-0.0822	0.0032	-0.0049
97	575	1210	519.7	SLE RA 8	0.00913	-0.0001	-0.07939	0	0.007	0
97	575	1210	519.7	SLE RA 9	0.08454	0.43887	-0.06999	-0.0493	0.004	-0.0029
97	575	1210	519.7	SLE RA 10	-0.22897	-0.00021	-0.09983	0.0001	0.0117	0
97	575	1210	519.7	SLE RA 11	-0.15362	0.43917	-0.09043	-0.0493	0.0087	-0.0029
97	575	1210	519.7	SLE RA 12	-0.10573	-0.00005	-0.09047	0	0.01	0
97	575	1210	519.7	SLE RA 13	-0.03038	0.43911	-0.08107	-0.0493	0.007	-0.0029
97	575	1210	519.7	SLE FR 1	-0.16358	-0.0001	-0.09015	0	0.008	0
97	575	1210	519.7	SLE FR 2	-0.13847	0.14636	-0.08701	-0.0164	0.007	-0.001
97	575	1210	519.7	SLE FR 3	-0.1225	-0.00005	-0.08703	0	0.0074	0
97	575	1210	519.7	SLE FR 4	-0.17666	-0.00012	-0.09208	0	0.0087	0
97	575	1210	519.7	SLE QP 1	-0.16358	-0.0001	-0.09015	0	0.008	0
97	575	1210	519.7	SLD 1	-0.45935	-0.92567	-0.08873	0.1048	-0.0061	0.0122
97	575	1210	519.7	SLD 2	-0.45935	-0.92567	-0.08873	0.1048	-0.0061	0.0122
97	575	1210	519.7	SLD 3	-0.37434	0.92506	-0.08977	-0.1048	-0.0018	-0.0121
97	575	1210	519.7	SLD 4	-0.37434	0.92506	-0.08977	-0.1048	-0.0018	-0.0121
97	575	1210	519.7	SLD 5	-0.38127	-3.08581	-0.08814	0.3494	-0.0029	0.0407
97	575	1210	519.7	SLD 6	-0.38127	-3.08581	-0.08814	0.3494	-0.0029	0.0407
97	575	1210	519.7	SLD 7	-0.09784	3.08382	-0.09161	-0.3494	0.0117	-0.0405
97	575	1210	519.7	SLD 8	-0.09784	3.08382	-0.09161	-0.3494	0.0117	-0.0405
97	575	1210	519.7	SLD 9	-0.22932	-3.08586	-0.08868	0.3494	0.0043	0.0407
97	575	1210	519.7	SLD 10	-0.22932	-3.08586	-0.08868	0.3494	0.0043	0.0407
97	575	1210	519.7	SLD 11	0.05412	3.08387	-0.09215	-0.3494	0.0189	-0.0405
97	575	1210	519.7	SLD 12	0.05412	3.08387	-0.09215	-0.3494	0.0189	-0.0405
97	575	1210	519.7	SLD 13	0.04716	-0.92595	-0.09052	0.1048	0.0178	0.0122
97	575	1210	519.7	SLD 14	0.04716	-0.92595	-0.09052	0.1048	0.0178	0.0122
97	575	1210	519.7	SLD 15	0.13215	0.92535	-0.09157	-0.1049	0.0221	-0.0122
97	575	1210	519.7	SLD 16	0.13215	0.92535	-0.09157	-0.1049	0.0221	-0.0122
97	575	1210	519.7	SLV 1	-0.92339	-2.37796	-0.0865	0.2692	-0.0283	0.0313
97	575	1210	519.7	SLV 2	-0.92339	-2.37796	-0.0865	0.2692	-0.0283	0.0313
97	575	1210	519.7	SLV 3	-0.70497	2.37643	-0.08917	-0.2692	-0.0171	-0.0312
97	575	1210	519.7	SLV 4	-0.70497	2.37643	-0.08917	-0.2692	-0.0171	-0.0312
97	575	1210	519.7	SLV 5	-0.7228	-7.92681	-0.08499	0.8975	-0.0199	0.1045
97	575	1210	519.7	SLV 6	-0.7228	-7.92681	-0.08499	0.8975	-0.0199	0.1045
97	575	1210	519.7	SLV 7	0.00541	7.92172	-0.09391	-0.8976	0.0175	-0.1041
97	575	1210	519.7	SLV 8	0.00541	7.92172	-0.09391	-0.8976	0.0175	-0.1041
97	575	1210	519.7	SLV 9	-0.33245	-7.92695	-0.08637	0.8975	-0.0015	0.1045
97	575	1210	519.7	SLV 10	-0.33245	-7.92695	-0.08637	0.8975	-0.0015	0.1045
97	575	1210	519.7	SLV 11	0.39576	7.92186	-0.0953	-0.8977	0.0359	-0.1041
97	575	1210	519.7	SLV 12	0.39576	7.92186	-0.0953	-0.8977	0.0359	-0.1041
97	575	1210	519.7	SLV 13	0.3778	-2.3784	-0.09112	0.2693	0.0331	0.0314
97	575	1210	519.7	SLV 14	0.3778	-2.3784	-0.09112	0.2693	0.0331	0.0314
97	575	1210	519.7	SLV 15	0.59621	2.37687	-0.09379	-0.2694	0.0443	-0.0313
97	575	1210	519.7	SLV 16	0.59621	2.37687	-0.09379	-0.2694	0.0443	-0.0313
97	575	1210	519.7	SLV FO 1	-0.92339	-2.37796	-0.0865	0.2692	-0.0283	0.0313
97	575	1210	519.7	SLV FO 2	-0.92339	-2.37796	-0.0865	0.2692	-0.0283	0.0313
97	575	1210	519.7	SLV FO 3	-0.70497	2.37643	-0.08917	-0.2692	-0.0171	-0.0312
97	575	1210	519.7	SLV FO 4	-0.70497	2.37643	-0.08917	-0.2692	-0.0171	-0.0312
97	575	1210	519.7	SLV FO 5	-0.7228	-7.92681	-0.08499	0.8975	-0.0199	0.1045
97	575	1210	519.7	SLV FO 6	-0.7228	-7.92681	-0.08499	0.8975	-0.0199	0.1045
97	575	1210	519.7	SLV FO 7	0.00541	7.92172	-0.09391	-0.8976	0.0175	-0.1041
97	575	1210	519.7	SLV FO 8	0.00541	7.92172	-0.09391	-0.8976	0.0175	-0.1041
97	575	1210	519.7	SLV FO 9	-0.33245	-7.92695	-0.08637	0.8975	-0.0015	0.1045
97	575	1210	519.7	SLV FO 10	-0.33245	-7.92695	-0.08637	0.8975	-0.0015	0.1045
97	575	1210	519.7	SLV FO 11	0.39576	7.92186	-0.0953	-0.8977	0.0359	-0.1041

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
97	575	1210	519.7	SLV FO 12	0.39576	7.92186	-0.0953	-0.8977	0.0359	-0.1041
97	575	1210	519.7	SLV FO 13	0.3778	-2.3784	-0.09112	0.2693	0.0331	0.0314
97	575	1210	519.7	SLV FO 14	0.3778	-2.3784	-0.09112	0.2693	0.0331	0.0314
97	575	1210	519.7	SLV FO 15	0.59621	2.37687	-0.09379	-0.2694	0.0443	-0.0313
97	575	1210	519.7	SLV FO 16	0.59621	2.37687	-0.09379	-0.2694	0.0443	-0.0313
98	815	210	525	SLU 1	-0.13304	0.00004	-0.16293	0	0.0262	0
98	815	210	525	SLU 2	0.00631	1.104	-0.03924	-0.0908	-0.0058	0.0029
98	815	210	525	SLU 3	0.19197	1.10389	0.02979	-0.0907	-0.026	0.0029
98	815	210	525	SLU 4	0.17653	0.00026	-0.0479	0.0001	-0.0075	0
98	815	210	525	SLU 5	0.26004	0.66229	0.02633	-0.0544	-0.0267	0.0017
98	815	210	525	SLU 6	-0.04288	1.10416	-0.07622	-0.0909	0.004	0.0029
98	815	210	525	SLU 7	0.14273	1.10385	-0.00719	-0.0907	-0.0162	0.0029
98	815	210	525	SLU 8	0.12728	0.00021	-0.08487	0	0.0022	0
98	815	210	525	SLU 9	0.21082	0.66232	-0.01065	-0.0544	-0.0169	0.0017
98	815	210	525	SLU 10	-0.23148	0.00018	-0.23689	0	0.0457	0
98	815	210	525	SLU 11	-0.14782	0.66264	-0.16268	-0.0546	0.0265	0.0017
98	815	210	525	SLU 12	-0.04581	0.00004	-0.16786	0	0.0255	0
98	815	210	525	SLU 13	0.03777	0.66232	-0.09364	-0.0544	0.0063	0.0018
98	815	210	525	SLU 14	-0.17998	0.00011	-0.19736	0	0.0353	0
98	815	210	525	SLU 15	-0.0406	1.10416	-0.07367	-0.0909	0.0034	0.0029
98	815	210	525	SLU 16	0.14501	1.10385	-0.00464	-0.0907	-0.0169	0.0029
98	815	210	525	SLU 17	0.12956	0.00021	-0.08232	0	0.0016	0
98	815	210	525	SLU 18	0.2131	0.66233	-0.0081	-0.0544	-0.0176	0.0017
98	815	210	525	SLU 19	-0.08983	1.10419	-0.11065	-0.0909	0.0131	0.0029
98	815	210	525	SLU 20	0.09577	1.10381	-0.04162	-0.0907	-0.0071	0.0029
98	815	210	525	SLU 21	0.08031	0.00016	-0.1193	0	0.0114	0
98	815	210	525	SLU 22	0.16386	0.66235	-0.04508	-0.0545	-0.0078	0.0018
98	815	210	525	SLU 23	-0.27843	0.00024	-0.27132	-0.0001	0.0548	0
98	815	210	525	SLU 24	-0.19476	0.66268	-0.19711	-0.0546	0.0357	0.0017
98	815	210	525	SLU 25	-0.09278	0.00003	-0.20229	0	0.0346	0
98	815	210	525	SLU 26	-0.00913	0.66246	-0.12808	-0.0545	0.0154	0.0017
98	815	210	525	SLU 27	-0.17295	0.00006	-0.21181	0	0.034	0
98	815	210	525	SLU 28	-0.03361	1.10401	-0.08812	-0.0908	0.0021	0.0029
98	815	210	525	SLU 29	0.15205	1.10389	-0.01908	-0.0907	-0.0181	0.0029
98	815	210	525	SLU 30	0.13661	0.00025	-0.09677	0.0001	0.0003	0
98	815	210	525	SLU 31	0.22011	0.66228	-0.02255	-0.0544	-0.0188	0.0017
98	815	210	525	SLU 32	-0.08279	1.10419	-0.1251	-0.0909	0.0118	0.0029
98	815	210	525	SLU 33	0.10281	1.10385	-0.05606	-0.0907	-0.0084	0.0029
98	815	210	525	SLU 34	0.08736	0.0002	-0.13375	0	0.0101	0
98	815	210	525	SLU 35	0.1709	0.66232	-0.05953	-0.0544	-0.0091	0.0017
98	815	210	525	SLU 36	-0.2714	0.00019	-0.28577	0	0.0535	0
98	815	210	525	SLU 37	-0.18773	0.66268	-0.21156	-0.0546	0.0344	0.0017
98	815	210	525	SLU 38	-0.08574	0.00003	-0.21674	0	0.0333	0
98	815	210	525	SLU 39	-0.00215	0.66232	-0.14252	-0.0544	0.0142	0.0018
98	815	210	525	SLU 40	-0.21989	0.00012	-0.24624	0	0.0431	0
98	815	210	525	SLU 41	-0.08051	1.10418	-0.12255	-0.0909	0.0112	0.0029
98	815	210	525	SLU 42	0.10509	1.10385	-0.05351	-0.0907	-0.009	0.0029
98	815	210	525	SLU 43	0.08964	0.0002	-0.1312	0	0.0094	0
98	815	210	525	SLU 44	0.17318	0.66232	-0.05698	-0.0544	-0.0097	0.0017
98	815	210	525	SLU 45	-0.12971	1.10423	-0.15954	-0.0908	0.021	0.0029
98	815	210	525	SLU 46	0.05586	1.10385	-0.09049	-0.0907	0.0008	0.0029
98	815	210	525	SLU 47	0.04039	0.00015	-0.16818	0	0.0192	0
98	815	210	525	SLU 48	0.12394	0.66234	-0.09396	-0.0545	0.0001	0.0018
98	815	210	525	SLU 49	-0.31834	0.00025	-0.3202	-0.0001	0.0627	0
98	815	210	525	SLU 50	-0.23467	0.66272	-0.24599	-0.0547	0.0435	0.0017
98	815	210	525	SLU 51	-0.13264	0.00005	-0.25118	0	0.0424	0
98	815	210	525	SLU 52	-0.04904	0.66249	-0.17696	-0.0545	0.0233	0.0017
98	815	210	525	SLE RA 1	-0.16434	0.00009	-0.18588	0	0.0322	0
98	815	210	525	SLE RA 2	-0.07142	0.73613	-0.10342	-0.0606	0.011	0.0019
98	815	210	525	SLE RA 3	0.05232	0.7359	-0.0574	-0.0605	-0.0025	0.0019
98	815	210	525	SLE RA 4	0.04201	0.00013	-0.10919	0	0.0098	0
98	815	210	525	SLE RA 5	0.09771	0.44154	-0.05971	-0.0363	-0.003	0.0012
98	815	210	525	SLE RA 6	-0.10419	0.73618	-0.12808	-0.0605	0.0175	0.0019
98	815	210	525	SLE RA 7	0.01952	0.73596	-0.08206	-0.0605	0.004	0.0019
98	815	210	525	SLE RA 8	0.00918	0.0001	-0.13384	0	0.0163	0
98	815	210	525	SLE RA 9	0.06488	0.44156	-0.08436	-0.0363	0.0035	0.0012
98	815	210	525	SLE RA 10	-0.22996	0.00017	-0.23519	0	0.0453	0
98	815	210	525	SLE RA 11	-0.17419	0.44181	-0.18572	-0.0364	0.0325	0.0012
98	815	210	525	SLE RA 12	-0.10616	0.00004	-0.18917	0	0.0318	0
98	815	210	525	SLE RA 13	-0.05043	0.44167	-0.1397	-0.0363	0.019	0.0012
98	815	210	525	SLE FR 1	-0.16434	0.00009	-0.18588	0	0.0322	0
98	815	210	525	SLE FR 2	-0.14574	0.14729	-0.16939	-0.0122	0.028	0.0004
98	815	210	525	SLE FR 3	-0.12307	0.00004	-0.17054	0	0.0277	0
98	815	210	525	SLE FR 4	-0.17746	0.0001	-0.19574	0	0.0348	0
98	815	210	525	SLE QP 1	-0.16434	0.00009	-0.18588	0	0.0322	0
98	815	210	525	SLD 1	-0.37646	-0.9032	-0.16934	0.0822	0.0336	0.0039
98	815	210	525	SLD 2	-0.37646	-0.9032	-0.16934	0.0822	0.0336	0.0039
98	815	210	525	SLD 3	-0.46217	0.90377	-0.15964	-0.0821	0.0337	-0.0039
98	815	210	525	SLD 4	-0.46217	0.90377	-0.15964	-0.0821	0.0337	-0.0039
98	815	210	525	SLD 5	-0.09794	-3.01039	-0.19565	0.2734	0.0325	0.0131
98	815	210	525	SLD 6	-0.09794	-3.01039	-0.19565	0.2734	0.0325	0.0131
98	815	210	525	SLD 7	-0.38373	3.01224	-0.1633	-0.2732	0.0328	-0.0131
98	815	210	525	SLD 8	-0.38373	3.01224	-0.1633	-0.2732	0.0328	-0.0131
98	815	210	525	SLD 9	0.05504	-3.0104	-0.20849	0.2734	0.0317	0.0131
98	815	210	525	SLD 10	0.05504	-3.0104	-0.20849	0.2734	0.0317	0.0131
98	815	210	525	SLD 11	-0.23074	3.01225	-0.17614	-0.2732	0.0319	-0.0131
98	815	210	525	SLD 12	-0.23074	3.01225	-0.17614	-0.2732	0.0319	-0.0131
98	815	210	525	SLD 13	0.13345	-0.90324	-0.21213	0.082	0.0308	0.004
98	815	210	525	SLD 14	0.13345	-0.90324	-0.21213	0.082	0.0308	0.004
98	815	210	525	SLD 15	0.04777	0.90381	-0.20243	-0.082	0.0309	-0.0039
98	815	210	525	SLD 16	0.04777	0.90381	-0.20243	-0.082	0.0309	-0.0039
98	815	210	525	SLV 1	-0.70923	-2.32	-0.14339	0.2109	0.0357	0.0101
98	815	210	525	SLV 2	-0.70923	-2.32	-0.14339	0.2109	0.0357	0.0101
98	815	210	525	SLV 3	-0.92946	2.32143	-0.11847	-0.2107	0.0359	-0.01
98	815	210	525	SLV 4	-0.92946	2.32143	-0.11847	-0.2107	0.0359	-0.01
98	815	210	525	SLV 5	0.00632	-7.7331	-0.21099	0.7023	0.033	0.0337
98	815	210	525	SLV 6	0.00632	-7.7331	-0.21099	0.7023	0.033	0.0337
98	815	210	525	SLV 7	-0.72792	7.73782	-0.12788	-0.7016	0.0336	-0.0336
98	815	210	525	SLV 8	-0.72792	7.73782	-0.12788	-0.7016	0.0336	-0.0336
98	815	210	525	SLV 9	0.39931	-7.73313	-0.24397	0.7023	0.0309	0.0337

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
98	815	210	525	SLV 10	0.39931	-7.73313	-0.24397	0.7023	0.0309	0.0337
98	815	210	525	SLV 11	-0.33492	7.73785	-0.16086	-0.7015	0.0315	-0.0336
98	815	210	525	SLV 12	-0.33492	7.73785	-0.16086	-0.7015	0.0315	-0.0336
98	815	210	525	SLV 13	0.60076	-2.32009	-0.25332	0.2106	0.0286	0.0102
98	815	210	525	SLV 14	0.60076	-2.32009	-0.25332	0.2106	0.0286	0.0102
98	815	210	525	SLV 15	0.38054	2.32152	-0.22839	-0.2104	0.0288	-0.0101
98	815	210	525	SLV 16	0.38054	2.32152	-0.22839	-0.2104	0.0288	-0.0101
98	815	210	525	SLV FO 1	-0.70923	-2.32	-0.14339	0.2109	0.0357	0.0101
98	815	210	525	SLV FO 2	-0.70923	-2.32	-0.14339	0.2109	0.0357	0.0101
98	815	210	525	SLV FO 3	-0.92946	2.32143	-0.11847	-0.2107	0.0359	-0.01
98	815	210	525	SLV FO 4	-0.92946	2.32143	-0.11847	-0.2107	0.0359	-0.01
98	815	210	525	SLV FO 5	0.00632	-7.7331	-0.21099	0.7023	0.033	0.0337
98	815	210	525	SLV FO 6	0.00632	-7.7331	-0.21099	0.7023	0.033	0.0337
98	815	210	525	SLV FO 7	-0.72792	7.73782	-0.12788	-0.7016	0.0336	-0.0336
98	815	210	525	SLV FO 8	-0.72792	7.73782	-0.12788	-0.7016	0.0336	-0.0336
98	815	210	525	SLV FO 9	0.39931	-7.73313	-0.24397	0.7023	0.0309	0.0337
98	815	210	525	SLV FO 10	0.39931	-7.73313	-0.24397	0.7023	0.0309	0.0337
98	815	210	525	SLV FO 11	-0.33492	7.73785	-0.16086	-0.7015	0.0315	-0.0336
98	815	210	525	SLV FO 12	-0.33492	7.73785	-0.16086	-0.7015	0.0315	-0.0336
98	815	210	525	SLV FO 13	0.60076	-2.32009	-0.25332	0.2106	0.0286	0.0102
98	815	210	525	SLV FO 14	0.60076	-2.32009	-0.25332	0.2106	0.0286	0.0102
98	815	210	525	SLV FO 15	0.38054	2.32152	-0.22839	-0.2104	0.0288	-0.0101
98	815	210	525	SLV FO 16	0.38054	2.32152	-0.22839	-0.2104	0.0288	-0.0101
99	815	710	525	SLU 1	-0.14208	0	-0.18357	0	0.0311	0
99	815	710	525	SLU 2	0.07002	1.1036	0.06867	-0.0966	-0.0325	0.0035
99	815	710	525	SLU 3	0.29869	1.10335	0.21545	-0.0966	-0.0718	0.0035
99	815	710	525	SLU 4	0.23898	0	0.06108	0	-0.0345	0
99	815	710	525	SLU 5	0.36632	0.6618	0.21241	-0.058	-0.0726	0.0021
99	815	710	525	SLU 6	0.0064	1.10377	-0.00864	-0.0966	-0.013	0.0034
99	815	710	525	SLU 7	0.23512	1.10336	0.13814	-0.0966	-0.0524	0.0035
99	815	710	525	SLU 8	0.17542	0	-0.01624	0	-0.015	0
99	815	710	525	SLU 9	0.30273	0.66188	0.1351	-0.058	-0.0532	0.0021
99	815	710	525	SLU 10	-0.2693	0	-0.3382	0	0.0701	0
99	815	710	525	SLU 11	-0.14206	0.66235	-0.18685	-0.0579	0.0319	0.002
99	815	710	525	SLU 12	-0.04055	0	-0.19142	0	0.0307	0
99	815	710	525	SLU 13	0.08671	0.66204	-0.04008	-0.0579	-0.0075	0.0021
99	815	710	525	SLU 14	-0.20268	0	-0.25563	0	0.0493	0
99	815	710	525	SLU 15	0.0094	1.10376	-0.00339	-0.0966	-0.0143	0.0034
99	815	710	525	SLU 16	0.23812	1.10335	0.14338	-0.0966	-0.0537	0.0035
99	815	710	525	SLU 17	0.17842	0	-0.01099	0	-0.0163	0
99	815	710	525	SLU 18	0.30573	0.66188	0.14035	-0.058	-0.0545	0.0021
99	815	710	525	SLU 19	-0.05418	1.1038	-0.08071	-0.0966	0.0052	0.0034
99	815	710	525	SLU 20	0.17456	1.10336	0.06606	-0.0966	-0.0342	0.0035
99	815	710	525	SLU 21	0.11485	0	-0.08831	0	0.0032	0
99	815	710	525	SLU 22	0.24213	0.66195	0.06303	-0.058	-0.035	0.0021
99	815	710	525	SLU 23	-0.32991	0	-0.41027	0	0.0882	0
99	815	710	525	SLU 24	-0.20267	0.66232	-0.25892	-0.0578	0.0501	0.002
99	815	710	525	SLU 25	-0.10112	0	-0.26349	0	0.0489	0
99	815	710	525	SLU 26	0.02608	0.66222	-0.11214	-0.058	0.0107	0.0021
99	815	710	525	SLU 27	-0.1847	0	-0.23864	0	0.0405	0
99	815	710	525	SLU 28	0.02741	1.10362	0.0136	-0.0966	-0.0231	0.0035
99	815	710	525	SLU 29	0.25609	1.10336	0.16038	-0.0966	-0.0625	0.0035
99	815	710	525	SLU 30	0.19638	0	0.00601	0	-0.0251	0
99	815	710	525	SLU 31	0.32373	0.66179	0.15734	-0.058	-0.0633	0.0021
99	815	710	525	SLU 32	-0.03621	1.10379	-0.06371	-0.0966	-0.0037	0.0034
99	815	710	525	SLU 33	0.19252	1.10336	0.08306	-0.0966	-0.043	0.0035
99	815	710	525	SLU 34	0.13282	0	-0.07131	0	-0.0057	0
99	815	710	525	SLU 35	0.26013	0.66188	0.08003	-0.058	-0.0438	0.0021
99	815	710	525	SLU 36	-0.31192	0	-0.39327	0	0.0794	0
99	815	710	525	SLU 37	-0.18467	0.66237	-0.24192	-0.0579	0.0412	0.002
99	815	710	525	SLU 38	-0.08314	0	-0.24649	0	0.04	0
99	815	710	525	SLU 39	0.04411	0.66205	-0.09515	-0.0579	0.0019	0.0021
99	815	710	525	SLU 40	-0.24531	0	-0.3107	0	0.0587	0
99	815	710	525	SLU 41	-0.03321	1.10379	-0.05846	-0.0966	-0.0049	0.0034
99	815	710	525	SLU 42	0.19552	1.10336	0.08831	-0.0966	-0.0443	0.0035
99	815	710	525	SLU 43	0.13582	0	-0.06606	0	-0.007	0
99	815	710	525	SLU 44	0.26313	0.66188	0.08528	-0.058	-0.0451	0.0021
99	815	710	525	SLU 45	-0.09682	1.10383	-0.13578	-0.0965	0.0145	0.0034
99	815	710	525	SLU 46	0.13194	1.10341	0.01099	-0.0966	-0.0249	0.0035
99	815	710	525	SLU 47	0.07225	0	-0.14338	0	0.0125	0
99	815	710	525	SLU 48	0.19952	0.66195	0.00796	-0.058	-0.0257	0.0021
99	815	710	525	SLU 49	-0.37253	0	-0.46534	0	0.0976	0
99	815	710	525	SLU 50	-0.24528	0.66235	-0.31399	-0.0578	0.0594	0.002
99	815	710	525	SLU 51	-0.14385	0	-0.31855	0	0.0582	0
99	815	710	525	SLU 52	-0.01653	0.66226	-0.16721	-0.058	0.02	0.0021
99	815	710	525	SLE RA 1	-0.18248	0	-0.23161	0	0.0433	0
99	815	710	525	SLE RA 2	-0.04108	0.73587	-0.06345	-0.0644	0.0009	0.0023
99	815	710	525	SLE RA 3	0.11141	0.73558	0.0344	-0.0644	-0.0254	0.0023
99	815	710	525	SLE RA 4	0.07161	0	-0.06852	0	-0.0005	0
99	815	710	525	SLE RA 5	0.15648	0.44125	0.03237	-0.0387	-0.0259	0.0014
99	815	710	525	SLE RA 6	-0.08351	0.73591	-0.11499	-0.0643	0.0138	0.0022
99	815	710	525	SLE RA 7	0.06901	0.73568	-0.01714	-0.0644	-0.0124	0.0023
99	815	710	525	SLE RA 8	0.02923	0	-0.12007	0	0.0125	0
99	815	710	525	SLE RA 9	0.11408	0.4413	-0.01917	-0.0387	-0.013	0.0014
99	815	710	525	SLE RA 10	-0.2673	0	-0.3347	0	0.0692	0
99	815	710	525	SLE RA 11	-0.18247	0.44155	-0.2338	-0.0385	0.0438	0.0013
99	815	710	525	SLE RA 12	-0.11484	0	-0.23684	0	0.043	0
99	815	710	525	SLE RA 13	-0.02996	0.44151	-0.13595	-0.0386	0.0175	0.0014
99	815	710	525	SLE FR 1	-0.18248	0	-0.23161	0	0.0433	0
99	815	710	525	SLE FR 2	-0.15421	0.14718	-0.19798	-0.0128	0.0348	0.0004
99	815	710	525	SLE FR 3	-0.13166	0	-0.19899	0	0.0345	0
99	815	710	525	SLE FR 4	-0.19944	0	-0.25223	0	0.0485	0
99	815	710	525	SLE QP 1	-0.18248	0	-0.23161	0	0.0433	0
99	815	710	525	SLD 1	-0.46166	-0.90328	-0.20919	0.0819	0.045	0.0039
99	815	710	525	SLD 2	-0.46166	-0.90328	-0.20919	0.0819	0.045	0.0039
99	815	710	525	SLD 3	-0.46166	0.90328	-0.20919	-0.0819	0.045	-0.0039
99	815	710	525	SLD 4	-0.46166	0.90328	-0.20919	-0.0819	0.045	-0.0039
99	815	710	525	SLD 5	-0.26604	-3.01119	-0.22493	0.2733	0.0438	0.013
99	815	710	525	SLD 6	-0.26604	-3.01119	-0.22493	0.2733	0.0438	0.013
99	815	710	525	SLD 7	-0.26604	3.01119	-0.22493	-0.2733	0.0438	-0.013
99	815	710	525	SLD 8	-0.26604	3.01119	-0.22493	-0.2733	0.0438	-0.013
99	815	710	525	SLD 9	-0.09849	-3.01127	-0.23839	0.2734	0.0427	0.013
99	815	710	525	SLD 10	-0.09849	-3.01127	-0.23839	0.2734	0.0427	0.013

copertura

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
99	815	710	525	SLD 11	-0.09849	3.01127	-0.23839	-0.2734	0.0427	-0.013
99	815	710	525	SLD 12	-0.09849	3.01127	-0.23839	-0.2734	0.0427	-0.013
99	815	710	525	SLD 13	0.09688	-0.90357	-0.25407	0.0821	0.0415	0.0039
99	815	710	525	SLD 14	0.09688	-0.90357	-0.25407	0.0821	0.0415	0.0039
99	815	710	525	SLD 15	0.09688	0.90357	-0.25407	-0.0821	0.0415	-0.0039
99	815	710	525	SLD 16	0.09688	0.90357	-0.25407	-0.0821	0.0415	-0.0039
99	815	710	525	SLV 1	-0.89967	-2.32031	-0.17401	0.2103	0.0478	0.0101
99	815	710	525	SLV 2	-0.89967	-2.32031	-0.17401	0.2103	0.0478	0.0101
99	815	710	525	SLV 3	-0.89967	2.32031	-0.17401	-0.2103	0.0478	-0.0101
99	815	710	525	SLV 4	-0.89967	2.32031	-0.17401	-0.2103	0.0478	-0.0101
99	815	710	525	SLV 5	-0.39723	-7.73525	-0.21444	0.7023	0.0446	0.0335
99	815	710	525	SLV 6	-0.39723	-7.73525	-0.21444	0.7023	0.0446	0.0335
99	815	710	525	SLV 7	-0.39723	7.73525	-0.21444	-0.7023	0.0446	-0.0335
99	815	710	525	SLV 8	-0.39723	7.73525	-0.21444	-0.7023	0.0446	-0.0335
99	815	710	525	SLV 9	0.0332	-7.73547	-0.24902	0.7025	0.0419	0.0334
99	815	710	525	SLV 10	0.0332	-7.73547	-0.24902	0.7025	0.0419	0.0334
99	815	710	525	SLV 11	0.0332	7.73547	-0.24902	-0.7025	0.0419	-0.0334
99	815	710	525	SLV 12	0.0332	7.73547	-0.24902	-0.7025	0.0419	-0.0334
99	815	710	525	SLV 13	0.53508	-2.32103	-0.28929	0.211	0.0387	0.01
99	815	710	525	SLV 14	0.53508	-2.32103	-0.28929	0.211	0.0387	0.01
99	815	710	525	SLV 15	0.53508	2.32103	-0.28929	-0.211	0.0387	-0.01
99	815	710	525	SLV 16	0.53508	2.32103	-0.28929	-0.211	0.0387	-0.01
99	815	710	525	SLV FO 1	-0.89967	-2.32031	-0.17401	0.2103	0.0478	0.0101
99	815	710	525	SLV FO 2	-0.89967	-2.32031	-0.17401	0.2103	0.0478	0.0101
99	815	710	525	SLV FO 3	-0.89967	2.32031	-0.17401	-0.2103	0.0478	-0.0101
99	815	710	525	SLV FO 4	-0.89967	2.32031	-0.17401	-0.2103	0.0478	-0.0101
99	815	710	525	SLV FO 5	-0.39723	-7.73525	-0.21444	0.7023	0.0446	0.0335
99	815	710	525	SLV FO 6	-0.39723	-7.73525	-0.21444	0.7023	0.0446	0.0335
99	815	710	525	SLV FO 7	-0.39723	7.73525	-0.21444	-0.7023	0.0446	-0.0335
99	815	710	525	SLV FO 8	-0.39723	7.73525	-0.21444	-0.7023	0.0446	-0.0335
99	815	710	525	SLV FO 9	0.0332	-7.73547	-0.24902	0.7025	0.0419	0.0334
99	815	710	525	SLV FO 10	0.0332	-7.73547	-0.24902	0.7025	0.0419	0.0334
99	815	710	525	SLV FO 11	0.0332	7.73547	-0.24902	-0.7025	0.0419	-0.0334
99	815	710	525	SLV FO 12	0.0332	7.73547	-0.24902	-0.7025	0.0419	-0.0334
99	815	710	525	SLV FO 13	0.53508	-2.32103	-0.28929	0.211	0.0387	0.01
99	815	710	525	SLV FO 14	0.53508	-2.32103	-0.28929	0.211	0.0387	0.01
99	815	710	525	SLV FO 15	0.53508	2.32103	-0.28929	-0.211	0.0387	-0.01
99	815	710	525	SLV FO 16	0.53508	2.32103	-0.28929	-0.211	0.0387	-0.01
100	815	1210	525	SLU 1	-0.13304	-0.00004	-0.16293	0	0.0262	0
100	815	1210	525	SLU 2	0.05629	1.10324	-0.04562	-0.0968	-0.0058	0.0034
100	815	1210	525	SLU 3	0.24207	1.10281	0.02339	-0.0965	-0.026	0.0034
100	815	1210	525	SLU 4	0.17653	-0.00026	-0.0479	-0.0001	-0.0075	0
100	815	1210	525	SLU 5	0.29014	0.66131	0.02249	-0.0578	-0.0267	0.002
100	815	1210	525	SLU 6	0.00704	1.10345	-0.0826	-0.0969	0.004	0.0034
100	815	1210	525	SLU 7	0.19282	1.10287	-0.01358	-0.0966	-0.0162	0.0034
100	815	1210	525	SLU 8	0.12728	-0.00021	-0.08487	0	0.0022	0
100	815	1210	525	SLU 9	0.24089	0.66144	-0.01449	-0.0578	-0.0169	0.002
100	815	1210	525	SLU 10	-0.23148	-0.00018	-0.23689	0	0.0457	0
100	815	1210	525	SLU 11	-0.11793	0.66222	-0.1665	-0.0582	0.0265	0.0021
100	815	1210	525	SLU 12	-0.04581	-0.00004	-0.16786	0	0.0255	0
100	815	1210	525	SLU 13	0.06781	0.66176	-0.09748	-0.0579	0.0063	0.0021
100	815	1210	525	SLU 14	-0.17998	-0.00011	-0.19736	0	0.0353	0
100	815	1210	525	SLU 15	0.00932	1.10344	-0.08005	-0.0969	0.0034	0.0034
100	815	1210	525	SLU 16	0.1951	1.10287	-0.01103	-0.0966	-0.0168	0.0034
100	815	1210	525	SLU 17	0.12956	-0.00021	-0.08232	0	0.0016	0
100	815	1210	525	SLU 18	0.24317	0.66143	-0.01194	-0.0578	-0.0176	0.002
100	815	1210	525	SLU 19	-0.03993	1.10352	-0.11703	-0.0969	0.0131	0.0034
100	815	1210	525	SLU 20	0.14584	1.10292	-0.04801	-0.0966	-0.0071	0.0034
100	815	1210	525	SLU 21	0.08031	-0.00016	-0.1193	0	0.0114	0
100	815	1210	525	SLU 22	0.19395	0.66156	-0.04892	-0.0578	-0.0078	0.002
100	815	1210	525	SLU 23	-0.27843	-0.00024	-0.27132	0.0001	0.0548	0
100	815	1210	525	SLU 24	-0.16488	0.66217	-0.20093	-0.0581	0.0357	0.0021
100	815	1210	525	SLU 25	-0.09278	-0.00003	-0.20229	0	0.0346	0
100	815	1210	525	SLU 26	0.02084	0.66199	-0.13191	-0.0581	0.0154	0.0021
100	815	1210	525	SLU 27	-0.17295	-0.00006	-0.21181	0	0.034	0
100	815	1210	525	SLU 28	0.01637	1.10326	-0.0945	-0.0968	0.0021	0.0034
100	815	1210	525	SLU 29	0.20215	1.10283	-0.02548	-0.0965	-0.0181	0.0034
100	815	1210	525	SLU 30	0.13661	-0.00025	-0.09677	-0.0001	0.0003	0
100	815	1210	525	SLU 31	0.25021	0.66131	-0.02639	-0.0578	-0.0188	0.002
100	815	1210	525	SLU 32	-0.03289	1.10348	-0.13148	-0.0969	0.0118	0.0034
100	815	1210	525	SLU 33	0.15289	1.10289	-0.06246	-0.0966	-0.0084	0.0034
100	815	1210	525	SLU 34	0.08736	-0.0002	-0.13375	0	0.0101	0
100	815	1210	525	SLU 35	0.20096	0.66145	-0.06337	-0.0578	-0.0091	0.002
100	815	1210	525	SLU 36	-0.2714	-0.00019	-0.28577	0	0.0535	0
100	815	1210	525	SLU 37	-0.15786	0.66224	-0.21538	-0.0582	0.0344	0.0021
100	815	1210	525	SLU 38	-0.08574	-0.00003	-0.21674	0	0.0333	0
100	815	1210	525	SLU 39	0.02788	0.66178	-0.14636	-0.058	0.0142	0.0021
100	815	1210	525	SLU 40	-0.21989	-0.00012	-0.24624	0	0.0431	0
100	815	1210	525	SLU 41	-0.0306	1.10348	-0.12893	-0.0969	0.0112	0.0034
100	815	1210	525	SLU 42	0.15517	1.10289	-0.05991	-0.0966	-0.009	0.0034
100	815	1210	525	SLU 43	0.08964	-0.0002	-0.1312	0	0.0094	0
100	815	1210	525	SLU 44	0.20324	0.66145	-0.06082	-0.0578	-0.0097	0.002
100	815	1210	525	SLU 45	-0.07985	1.10357	-0.1659	-0.0969	0.021	0.0034
100	815	1210	525	SLU 46	0.10592	1.10298	-0.09689	-0.0966	0.0008	0.0034
100	815	1210	525	SLU 47	0.04039	-0.00015	-0.16818	0	0.0192	0
100	815	1210	525	SLU 48	0.15402	0.66157	-0.0978	-0.0578	0.0001	0.002
100	815	1210	525	SLU 49	-0.31834	-0.00025	-0.3202	0.0001	0.0627	0
100	815	1210	525	SLU 50	-0.2048	0.66219	-0.24981	-0.0581	0.0435	0.0021
100	815	1210	525	SLU 51	-0.13264	-0.00005	-0.25118	0	0.0424	0
100	815	1210	525	SLU 52	-0.01909	0.66203	-0.18079	-0.0581	0.0233	0.0021
100	815	1210	525	SLE RA 1	-0.16434	-0.00009	-0.18588	0	0.0322	0
100	815	1210	525	SLE RA 2	-0.03815	0.73567	-0.10767	-0.0646	0.011	0.0023
100	815	1210	525	SLE RA 3	0.0857	0.73527	-0.06166	-0.0644	-0.0025	0.0023
100	815	1210	525	SLE RA 4	0.04201	-0.00013	-0.10919	0	0.0098	0
100	815	1210	525	SLE RA 5	0.11775	0.44097	-0.06227	-0.0385	-0.003	0.0014
100	815	1210	525	SLE RA 6	-0.07097	0.73574	-0.13233	-0.0646	0.0175	0.0023
100	815	1210	525	SLE RA 7	0.05287	0.73539	-0.08631	-0.0644	0.004	0.0023
100	815	1210	525	SLE RA 8	0.00918	-0.0001	-0.13384	0	0.0163	0
100	815	1210	525	SLE RA 9	0.08494	0.44105	-0.08692	-0.0386	0.0035	0.0014
100	815	1210	525	SLE RA 10	-0.22996	-0.00017	-0.23519	0	0.0453	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
100	815	1210	525	SLE RA 11	-0.15427	0.44145	-0.18826	-0.0387	0.0325	0.0014
100	815	1210	525	SLE RA 12	-0.10616	-0.00004	-0.18917	0	0.0318	0
100	815	1210	525	SLE RA 13	-0.03047	0.44137	-0.14225	-0.0387	0.019	0.0014
100	815	1210	525	SLE FR 1	-0.16434	-0.00009	-0.18588	0	0.0322	0
100	815	1210	525	SLE FR 2	-0.13911	0.14712	-0.17024	-0.0129	0.028	0.0005
100	815	1210	525	SLE FR 3	-0.12307	-0.00004	-0.17054	0	0.0277	0
100	815	1210	525	SLE FR 4	-0.17746	-0.0001	-0.19574	0	0.0348	0
100	815	1210	525	SLE QP 1	-0.16434	-0.00009	-0.18588	0	0.0322	0
100	815	1210	525	SLD 1	-0.46217	-0.90377	-0.15964	0.0821	0.0337	0.0039
100	815	1210	525	SLD 2	-0.46217	-0.90377	-0.15964	0.0821	0.0337	0.0039
100	815	1210	525	SLD 3	-0.37646	0.9032	-0.16934	-0.0822	0.0336	-0.0039
100	815	1210	525	SLD 4	-0.37646	0.9032	-0.16934	-0.0822	0.0336	-0.0039
100	815	1210	525	SLD 5	-0.38373	-3.01224	-0.1633	0.2732	0.0328	0.0131
100	815	1210	525	SLD 6	-0.38373	-3.01224	-0.1633	0.2732	0.0328	0.0131
100	815	1210	525	SLD 7	-0.09794	3.01039	-0.19565	-0.2734	0.0325	-0.0131
100	815	1210	525	SLD 8	-0.09794	3.01039	-0.19565	-0.2734	0.0325	-0.0131
100	815	1210	525	SLD 9	-0.23074	-3.01225	-0.17614	0.2732	0.0319	0.0131
100	815	1210	525	SLD 10	-0.23074	-3.01225	-0.17614	0.2732	0.0319	0.0131
100	815	1210	525	SLD 11	0.05504	3.0104	-0.20849	-0.2734	0.0317	-0.0131
100	815	1210	525	SLD 12	0.05504	3.0104	-0.20849	-0.2734	0.0317	-0.0131
100	815	1210	525	SLD 13	0.04777	-0.90381	-0.20243	0.082	0.0309	0.0039
100	815	1210	525	SLD 14	0.04777	-0.90381	-0.20243	0.082	0.0309	0.0039
100	815	1210	525	SLD 15	0.13345	0.90324	-0.21213	-0.082	0.0308	-0.004
100	815	1210	525	SLD 16	0.13345	0.90324	-0.21213	-0.082	0.0308	-0.004
100	815	1210	525	SLV 1	-0.92946	-2.32143	-0.11847	0.2107	0.0359	0.01
100	815	1210	525	SLV 2	-0.92946	-2.32143	-0.11847	0.2107	0.0359	0.01
100	815	1210	525	SLV 3	-0.70923	2.32	-0.14339	-0.2109	0.0357	-0.0101
100	815	1210	525	SLV 4	-0.70923	2.32	-0.14339	-0.2109	0.0357	-0.0101
100	815	1210	525	SLV 5	-0.72792	-7.73782	-0.12788	0.7016	0.0336	0.0336
100	815	1210	525	SLV 6	-0.72792	-7.73782	-0.12788	0.7016	0.0336	0.0336
100	815	1210	525	SLV 7	0.00632	7.7331	-0.21099	-0.7023	0.033	-0.0337
100	815	1210	525	SLV 8	0.00632	7.7331	-0.21099	-0.7023	0.033	-0.0337
100	815	1210	525	SLV 9	-0.33492	-7.73785	-0.16086	0.7015	0.0315	0.0336
100	815	1210	525	SLV 10	-0.33492	-7.73785	-0.16086	0.7015	0.0315	0.0336
100	815	1210	525	SLV 11	0.39931	7.73313	-0.24397	-0.7023	0.0309	-0.0337
100	815	1210	525	SLV 12	0.39931	7.73313	-0.24397	-0.7023	0.0309	-0.0337
100	815	1210	525	SLV 13	0.38054	-2.32152	-0.22839	0.2104	0.0288	0.0101
100	815	1210	525	SLV 14	0.38054	-2.32152	-0.22839	0.2104	0.0288	0.0101
100	815	1210	525	SLV 15	0.60076	2.32009	-0.25332	-0.2106	0.0286	-0.0102
100	815	1210	525	SLV 16	0.60076	2.32009	-0.25332	-0.2106	0.0286	-0.0102
100	815	1210	525	SLV FO 1	-0.92946	-2.32143	-0.11847	0.2107	0.0359	0.01
100	815	1210	525	SLV FO 2	-0.92946	-2.32143	-0.11847	0.2107	0.0359	0.01
100	815	1210	525	SLV FO 3	-0.70923	2.32	-0.14339	-0.2109	0.0357	-0.0101
100	815	1210	525	SLV FO 4	-0.70923	2.32	-0.14339	-0.2109	0.0357	-0.0101
100	815	1210	525	SLV FO 5	-0.72792	-7.73782	-0.12788	0.7016	0.0336	0.0336
100	815	1210	525	SLV FO 6	-0.72792	-7.73782	-0.12788	0.7016	0.0336	0.0336
100	815	1210	525	SLV FO 7	0.00632	7.7331	-0.21099	-0.7023	0.033	-0.0337
100	815	1210	525	SLV FO 8	0.00632	7.7331	-0.21099	-0.7023	0.033	-0.0337
100	815	1210	525	SLV FO 9	-0.33492	-7.73785	-0.16086	0.7015	0.0315	0.0336
100	815	1210	525	SLV FO 10	-0.33492	-7.73785	-0.16086	0.7015	0.0315	0.0336
100	815	1210	525	SLV FO 11	0.39931	7.73313	-0.24397	-0.7023	0.0309	-0.0337
100	815	1210	525	SLV FO 12	0.39931	7.73313	-0.24397	-0.7023	0.0309	-0.0337
100	815	1210	525	SLV FO 13	0.38054	-2.32152	-0.22839	0.2104	0.0288	0.0101
100	815	1210	525	SLV FO 14	0.38054	-2.32152	-0.22839	0.2104	0.0288	0.0101
100	815	1210	525	SLV FO 15	0.60076	2.32009	-0.25332	-0.2106	0.0286	-0.0102
100	815	1210	525	SLV FO 16	0.60076	2.32009	-0.25332	-0.2106	0.0286	-0.0102
101	645	210	530	SLU 1	-0.1309	0.00005	-0.0957	0	0.0135	0
101	645	210	530	SLU 2	0.00581	1.11504	-0.05608	-0.1385	-0.0046	-0.0048
101	645	210	530	SLU 3	0.18985	1.11485	-0.03665	-0.1384	-0.0134	-0.0048
101	645	210	530	SLU 4	0.17597	0.00031	-0.06333	0	-0.0011	0
101	645	210	530	SLU 5	0.25789	0.66892	-0.03955	-0.0831	-0.012	-0.0029
101	645	210	530	SLU 6	-0.04257	1.11521	-0.06763	-0.1385	0.0008	-0.0048
101	645	210	530	SLU 7	0.14142	1.11482	-0.0482	-0.1384	-0.008	-0.0048
101	645	210	530	SLU 8	0.12753	0.00024	-0.07488	0	0.0042	0
101	645	210	530	SLU 9	0.20949	0.66893	-0.0511	-0.0831	-0.0067	-0.0029
101	645	210	530	SLU 10	-0.22772	0.00021	-0.1188	0	0.0242	0
101	645	210	530	SLU 11	-0.14564	0.66929	-0.09503	-0.0831	0.0133	-0.0029
101	645	210	530	SLU 12	-0.04367	0.00003	-0.09937	0	0.0154	0
101	645	210	530	SLU 13	0.03833	0.66891	-0.0756	-0.0831	0.0045	-0.0029
101	645	210	530	SLU 14	-0.17709	0.00013	-0.10646	0	0.0184	0
101	645	210	530	SLU 15	-0.04034	1.1152	-0.06684	-0.1385	0.0003	-0.0048
101	645	210	530	SLU 16	0.14365	1.11482	-0.04741	-0.1384	-0.0085	-0.0048
101	645	210	530	SLU 17	0.12975	0.00024	-0.07409	0	0.0038	0
101	645	210	530	SLU 18	0.21171	0.66893	-0.05031	-0.0831	-0.0071	-0.0029
101	645	210	530	SLU 19	-0.08876	1.11521	-0.07839	-0.1385	0.0057	-0.0048
101	645	210	530	SLU 20	0.09522	1.11479	-0.05896	-0.1384	-0.0031	-0.0048
101	645	210	530	SLU 21	0.08132	0.00017	-0.08564	0	0.0091	0
101	645	210	530	SLU 22	0.16328	0.6689	-0.06186	-0.0831	-0.0018	-0.0029
101	645	210	530	SLU 23	-0.27391	0.00029	-0.12956	0	0.0291	0
101	645	210	530	SLU 24	-0.19183	0.66929	-0.10579	-0.0831	0.0182	-0.0029
101	645	210	530	SLU 25	-0.08988	0.00005	-0.11013	0	0.0203	0
101	645	210	530	SLU 26	-0.00782	0.66908	-0.08636	-0.0831	0.0094	-0.0029
101	645	210	530	SLU 27	-0.17018	0.00007	-0.12441	0	0.0176	0
101	645	210	530	SLU 28	-0.03347	1.11505	-0.08478	-0.1385	-0.0005	-0.0048
101	645	210	530	SLU 29	0.15057	1.11485	-0.06536	-0.1384	-0.0093	-0.0048
101	645	210	530	SLU 30	0.13668	0.00029	-0.09204	0	0.0029	0
101	645	210	530	SLU 31	0.21861	0.6689	-0.06826	-0.0831	-0.0079	-0.0029
101	645	210	530	SLU 32	-0.08184	1.11523	-0.09634	-0.1385	0.0048	-0.0048
101	645	210	530	SLU 33	0.10214	1.11482	-0.07691	-0.1384	-0.004	-0.0048
101	645	210	530	SLU 34	0.08825	0.00023	-0.10358	0	0.0082	0
101	645	210	530	SLU 35	0.17021	0.66892	-0.07981	-0.0831	-0.0026	-0.0029
101	645	210	530	SLU 36	-0.26699	0.00023	-0.14751	0	0.0282	0
101	645	210	530	SLU 37	-0.18491	0.66933	-0.12374	-0.0831	0.0174	-0.0029
101	645	210	530	SLU 38	-0.08296	0.00001	-0.12808	0	0.0194	0
101	645	210	530	SLU 39	-0.00095	0.66891	-0.10431	-0.0831	0.0086	-0.0029
101	645	210	530	SLU 40	-0.21636	0.00014	-0.13517	0	0.0225	0
101	645	210	530	SLU 41	-0.07961	1.11523	-0.09555	-0.1385	0.0044	-0.0048
101	645	210	530	SLU 42	0.10437	1.11482	-0.07612	-0.1384	-0.0044	-0.0048
101	645	210	530	SLU 43	0.09047	0.00023	-0.1028	0	0.0078	0
101	645	210	530	SLU 44	0.17243	0.66892	-0.07902	-0.0831	-0.003	-0.0029
101	645	210	530	SLU 45	-0.128	1.11534	-0.1071	-0.1385	0.0097	-0.0049
101	645	210	530	SLU 46	0.05595	1.11483	-0.08767	-0.1384	0.0009	-0.0048
101	645	210	530	SLU 47	0.04203	0.00016	-0.11435	0	0.0131	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
101	645	210	530	SLU 48	0.124	0.6689	-0.09057	-0.0831	0.0023	-0.0029
101	645	210	530	SLU 49	-0.31318	0.0003	-0.15827	-0.0001	0.0331	0
101	645	210	530	SLU 50	-0.2311	0.66933	-0.1345	-0.0831	0.0223	-0.0029
101	645	210	530	SLU 51	-0.1291	0.00007	-0.13885	0	0.0243	0
101	645	210	530	SLU 52	-0.04708	0.66912	-0.11507	-0.0831	0.0135	-0.0029
101	645	210	530	SLE RA 1	-0.16169	0.0001	-0.10287	0	0.0168	0
101	645	210	530	SLE RA 2	-0.07053	0.74349	-0.07646	-0.0923	0.0047	-0.0032
101	645	210	530	SLE RA 3	0.05212	0.74321	-0.0635	-0.0923	-0.0011	-0.0032
101	645	210	530	SLE RA 4	0.04285	0.00015	-0.08129	0	0.007	0
101	645	210	530	SLE RA 5	0.0975	0.44594	-0.06544	-0.0554	-0.0002	-0.0019
101	645	210	530	SLE RA 6	-0.10277	0.74365	-0.08416	-0.0924	0.0083	-0.0033
101	645	210	530	SLE RA 7	0.01986	0.74329	-0.07121	-0.0923	0.0024	-0.0032
101	645	210	530	SLE RA 8	0.01056	0.0001	-0.08899	0	0.0106	0
101	645	210	530	SLE RA 9	0.06521	0.44593	-0.07314	-0.0554	0.0033	-0.0019
101	645	210	530	SLE RA 10	-0.22624	0.00021	-0.11827	0	0.0239	0
101	645	210	530	SLE RA 11	-0.17152	0.4462	-0.10243	-0.0554	0.0167	-0.0019
101	645	210	530	SLE RA 12	-0.10352	0.00005	-0.10532	0	0.018	0
101	645	210	530	SLE RA 13	-0.04885	0.44609	-0.08947	-0.0554	0.0108	-0.0019
101	645	210	530	SLE FR 1	-0.16169	0.0001	-0.10287	0	0.0168	0
101	645	210	530	SLE FR 2	-0.14345	0.14874	-0.09759	-0.0185	0.0144	-0.0006
101	645	210	530	SLE FR 3	-0.12079	0.00005	-0.09856	0	0.0148	0
101	645	210	530	SLE FR 4	-0.1746	0.00012	-0.10595	0	0.0182	0
101	645	210	530	SLE QP 1	-0.16169	0.0001	-0.10287	0	0.0168	0
101	645	210	530	SLD 1	-0.374	-0.93135	-0.09191	0.1175	0.0104	0.0102
101	645	210	530	SLD 2	-0.374	-0.93135	-0.09191	0.1175	0.0104	0.0102
101	645	210	530	SLD 3	-0.45974	0.93192	-0.08606	-0.1175	0.0074	-0.0102
101	645	210	530	SLD 4	-0.45974	0.93192	-0.08606	-0.1175	0.0074	-0.0102
101	645	210	530	SLD 5	-0.09531	-3.10463	-0.10845	0.3918	0.0195	0.034
101	645	210	530	SLD 6	-0.09531	-3.10463	-0.10845	0.3918	0.0195	0.034
101	645	210	530	SLD 7	-0.38119	3.10647	-0.08896	-0.3919	0.0094	-0.0341
101	645	210	530	SLD 8	-0.38119	3.10647	-0.08896	-0.3919	0.0094	-0.0341
101	645	210	530	SLD 9	0.05779	-3.10467	-0.11679	0.3918	0.0242	0.034
101	645	210	530	SLD 10	0.05779	-3.10467	-0.11679	0.3918	0.0242	0.034
101	645	210	530	SLD 11	-0.22808	3.10651	-0.0973	-0.3919	0.0141	-0.0341
101	645	210	530	SLD 12	-0.22808	3.10651	-0.0973	-0.3919	0.0141	-0.0341
101	645	210	530	SLD 13	0.13631	-0.93157	-0.11968	0.1176	0.0262	0.0102
101	645	210	530	SLD 14	0.13631	-0.93157	-0.11968	0.1176	0.0262	0.0102
101	645	210	530	SLD 15	0.05059	0.93214	-0.11384	-0.1176	0.0231	-0.0102
101	645	210	530	SLD 16	0.05059	0.93214	-0.11384	-0.1176	0.0231	-0.0102
101	645	210	530	SLV 1	-0.70705	-2.39251	-0.07471	0.3019	0.0005	0.0262
101	645	210	530	SLV 2	-0.70705	-2.39251	-0.07471	0.3019	0.0005	0.0262
101	645	210	530	SLV 3	-0.92735	2.39393	-0.05969	-0.302	-0.0073	-0.0262
101	645	210	530	SLV 4	-0.92735	2.39393	-0.05969	-0.302	-0.0073	-0.0262
101	645	210	530	SLV 5	0.00895	-7.97517	-0.11722	1.0064	0.0238	0.0874
101	645	210	530	SLV 6	0.00895	-7.97517	-0.11722	1.0064	0.0238	0.0874
101	645	210	530	SLV 7	-0.72554	7.97988	-0.06714	-1.0066	-0.0023	-0.0876
101	645	210	530	SLV 8	-0.72554	7.97988	-0.06714	-1.0066	-0.0023	-0.0876
101	645	210	530	SLV 9	0.40225	-7.97527	-0.13862	1.0064	0.0359	0.0874
101	645	210	530	SLV 10	0.40225	-7.97527	-0.13862	1.0064	0.0359	0.0874
101	645	210	530	SLV 11	-0.33224	7.97998	-0.08855	-1.0066	0.0098	-0.0876
101	645	210	530	SLV 12	-0.33224	7.97998	-0.08855	-1.0066	0.0098	-0.0876
101	645	210	530	SLV 13	0.60394	-2.39285	-0.14606	0.302	0.0409	0.0263
101	645	210	530	SLV 14	0.60394	-2.39285	-0.14606	0.302	0.0409	0.0263
101	645	210	530	SLV 15	0.38364	2.39427	-0.13104	-0.302	0.0331	-0.0263
101	645	210	530	SLV 16	0.38364	2.39427	-0.13104	-0.302	0.0331	-0.0263
101	645	210	530	SLV FO 1	-0.70705	-2.39251	-0.07471	0.3019	0.0005	0.0262
101	645	210	530	SLV FO 2	-0.70705	-2.39251	-0.07471	0.3019	0.0005	0.0262
101	645	210	530	SLV FO 3	-0.92735	2.39393	-0.05969	-0.302	-0.0073	-0.0262
101	645	210	530	SLV FO 4	-0.92735	2.39393	-0.05969	-0.302	-0.0073	-0.0262
101	645	210	530	SLV FO 5	0.00895	-7.97517	-0.11722	1.0064	0.0238	0.0874
101	645	210	530	SLV FO 6	0.00895	-7.97517	-0.11722	1.0064	0.0238	0.0874
101	645	210	530	SLV FO 7	-0.72554	7.97988	-0.06714	-1.0066	-0.0023	-0.0876
101	645	210	530	SLV FO 8	-0.72554	7.97988	-0.06714	-1.0066	-0.0023	-0.0876
101	645	210	530	SLV FO 9	0.40225	-7.97527	-0.13862	1.0064	0.0359	0.0874
101	645	210	530	SLV FO 10	0.40225	-7.97527	-0.13862	1.0064	0.0359	0.0874
101	645	210	530	SLV FO 11	-0.33224	7.97998	-0.08855	-1.0066	0.0098	-0.0876
101	645	210	530	SLV FO 12	-0.33224	7.97998	-0.08855	-1.0066	0.0098	-0.0876
101	645	210	530	SLV FO 13	0.60394	-2.39285	-0.14606	0.302	0.0409	0.0263
101	645	210	530	SLV FO 14	0.60394	-2.39285	-0.14606	0.302	0.0409	0.0263
101	645	210	530	SLV FO 15	0.38364	2.39427	-0.13104	-0.302	0.0331	-0.0263
101	645	210	530	SLV FO 16	0.38364	2.39427	-0.13104	-0.302	0.0331	-0.0263
102	645	710	530	SLU 1	-0.13952	0	-0.10293	0	0.0165	0
102	645	710	530	SLU 2	0.06716	1.11409	-0.02102	-0.1389	-0.0218	-0.0048
102	645	710	530	SLU 3	0.2925	1.11369	0.02391	-0.1389	-0.043	-0.0047
102	645	710	530	SLU 4	0.23599	0	-0.02805	0	-0.0187	0
102	645	710	530	SLU 5	0.36008	0.66802	0.0211	-0.0833	-0.0417	-0.0028
102	645	710	530	SLU 6	0.0052	1.11432	-0.04608	-0.139	-0.01	-0.0048
102	645	710	530	SLU 7	0.23059	1.11373	-0.00116	-0.1389	-0.0311	-0.0047
102	645	710	530	SLU 8	0.17408	0	-0.05311	0	-0.0069	0
102	645	710	530	SLU 9	0.29815	0.66809	-0.00397	-0.0833	-0.0299	-0.0028
102	645	710	530	SLU 10	-0.26341	0	-0.15307	0	0.0401	0
102	645	710	530	SLU 11	-0.13943	0.66881	-0.10391	-0.0834	0.0172	-0.0029
102	645	710	530	SLU 12	-0.038	0	-0.10814	0	0.019	0
102	645	710	530	SLU 13	0.08601	0.66828	-0.05899	-0.0833	-0.0039	-0.0028
102	645	710	530	SLU 14	-0.19858	0	-0.12634	0	0.0274	0
102	645	710	530	SLU 15	0.00808	1.11432	-0.04442	-0.139	-0.0109	-0.0048
102	645	710	530	SLU 16	0.23348	1.11372	0.00051	-0.1389	-0.032	-0.0047
102	645	710	530	SLU 17	0.17697	0	-0.05145	0	-0.0078	0
102	645	710	530	SLU 18	0.30103	0.66809	-0.0023	-0.0833	-0.0308	-0.0028
102	645	710	530	SLU 19	-0.05383	1.11439	-0.06949	-0.139	0.0009	-0.0048
102	645	710	530	SLU 20	0.17157	1.11376	-0.02456	-0.1389	-0.0202	-0.0047
102	645	710	530	SLU 21	0.11506	0	-0.07652	0	0.0041	0
102	645	710	530	SLU 22	0.23909	0.66813	-0.02737	-0.0833	-0.0189	-0.0028
102	645	710	530	SLU 23	-0.32247	0	-0.17647	0	0.0511	0
102	645	710	530	SLU 24	-0.19849	0.66881	-0.12732	-0.0834	0.0281	-0.0029
102	645	710	530	SLU 25	-0.09702	0	-0.13155	0	0.03	0
102	645	710	530	SLU 26	0.02693	0.66852	-0.08239	-0.0834	0.007	-0.0029
102	645	710	530	SLU 27	-0.18138	0	-0.13381	0	0.0214	0
102	645	710	530	SLU 28	0.02532	1.11411	-0.0519	-0.1389	-0.0169	-0.0048
102	645	710	530	SLU 29	0.25066	1.1137	-0.00697	-0.1389	-0.038	-0.0047

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
102	645	710	530	SLU 30	0.19415	0	-0.05893	0	-0.0138	0
102	645	710	530	SLU 31	0.31825	0.66801	-0.00978	-0.0833	-0.0368	-0.0028
102	645	710	530	SLU 32	-0.03664	1.11436	-0.07696	-0.139	-0.0051	-0.0048
102	645	710	530	SLU 33	0.18876	1.11374	-0.03204	-0.1389	-0.0262	-0.0047
102	645	710	530	SLU 34	0.13225	0	-0.084	0	-0.0019	0
102	645	710	530	SLU 35	0.25631	0.6681	-0.03485	-0.0833	-0.0249	-0.0028
102	645	710	530	SLU 36	-0.30527	0	-0.18395	0	0.0451	0
102	645	710	530	SLU 37	-0.18128	0.66884	-0.13479	-0.0834	0.0221	-0.0029
102	645	710	530	SLU 38	-0.07983	0	-0.13902	0	0.024	0
102	645	710	530	SLU 39	0.04417	0.66829	-0.08987	-0.0833	0.001	-0.0028
102	645	710	530	SLU 40	-0.24044	0	-0.15722	0	0.0324	0
102	645	710	530	SLU 41	-0.03376	1.11435	-0.0753	-0.139	-0.006	-0.0048
102	645	710	530	SLU 42	0.19164	1.11374	-0.03037	-0.1389	-0.0271	-0.0047
102	645	710	530	SLU 43	0.13513	0	-0.08233	0	-0.0028	0
102	645	710	530	SLU 44	0.25919	0.6681	-0.03319	-0.0833	-0.0258	-0.0028
102	645	710	530	SLU 45	-0.09571	1.11453	-0.10036	-0.139	0.0059	-0.0048
102	645	710	530	SLU 46	0.12972	1.11382	-0.05544	-0.1389	-0.0152	-0.0047
102	645	710	530	SLU 47	0.07323	0	-0.1074	0	0.009	0
102	645	710	530	SLU 48	0.19725	0.66814	-0.05825	-0.0833	-0.014	-0.0028
102	645	710	530	SLU 49	-0.36433	0	-0.20735	0	0.056	0
102	645	710	530	SLU 50	-0.24034	0.66884	-0.1582	-0.0834	0.033	-0.0029
102	645	710	530	SLU 51	-0.13898	0	-0.16242	0	0.0349	0
102	645	710	530	SLU 52	-0.01492	0.66857	-0.11327	-0.0834	0.0119	-0.0029
102	645	710	530	SLE RA 1	-0.17889	0	-0.11853	0	0.0238	0
102	645	710	530	SLE RA 2	-0.0411	0.74292	-0.06392	-0.0927	-0.0018	-0.0032
102	645	710	530	SLE RA 3	0.10917	0.7425	-0.03397	-0.0926	-0.0158	-0.0032
102	645	710	530	SLE RA 4	0.07149	0	-0.06861	0	0.0003	0
102	645	710	530	SLE RA 5	0.1542	0.4454	-0.03585	-0.0555	-0.015	-0.0019
102	645	710	530	SLE RA 6	-0.08243	0.74311	-0.08063	-0.0927	0.0061	-0.0032
102	645	710	530	SLE RA 7	0.06787	0.74262	-0.05068	-0.0926	-0.008	-0.0032
102	645	710	530	SLE RA 8	0.03022	0	-0.08533	0	0.0082	0
102	645	710	530	SLE RA 9	0.11291	0.44543	-0.05256	-0.0555	-0.0071	-0.0019
102	645	710	530	SLE RA 10	-0.26149	0	-0.15196	0	0.0396	0
102	645	710	530	SLE RA 11	-0.17883	0.44588	-0.11919	-0.0556	0.0242	-0.0019
102	645	710	530	SLE RA 12	-0.11126	0	-0.122	0	0.0255	0
102	645	710	530	SLE RA 13	-0.02854	0.44573	-0.08924	-0.0556	0.0102	-0.0019
102	645	710	530	SLE FR 1	-0.17889	0	-0.11853	0	0.0238	0
102	645	710	530	SLE FR 2	-0.15134	0.14863	-0.10761	-0.0185	0.0187	-0.0007
102	645	710	530	SLE FR 3	-0.12882	0	-0.10855	0	0.0191	0
102	645	710	530	SLE FR 4	-0.19541	0	-0.12522	0	0.0269	0
102	645	710	530	SLE QP 1	-0.17889	0	-0.11853	0	0.0238	0
102	645	710	530	SLD 1	-0.45826	-0.93158	-0.10358	0.1175	0.0154	0.0103
102	645	710	530	SLD 2	-0.45826	-0.93158	-0.10358	0.1175	0.0154	0.0103
102	645	710	530	SLD 3	-0.45826	0.93158	-0.10358	-0.1175	0.0154	-0.0103
102	645	710	530	SLD 4	-0.45826	0.93158	-0.10358	-0.1175	0.0154	-0.0103
102	645	710	530	SLD 5	-0.2625	-3.10535	-0.11406	0.3917	0.0213	0.0341
102	645	710	530	SLD 6	-0.2625	-3.10535	-0.11406	0.3917	0.0213	0.0341
102	645	710	530	SLD 7	-0.2625	3.10535	-0.11406	-0.3917	0.0213	-0.0341
102	645	710	530	SLD 8	-0.2625	3.10535	-0.11406	-0.3917	0.0213	-0.0341
102	645	710	530	SLD 9	-0.09483	-3.10538	-0.12304	0.3917	0.0263	0.0341
102	645	710	530	SLD 10	-0.09483	-3.10538	-0.12304	0.3917	0.0263	0.0341
102	645	710	530	SLD 11	-0.09483	3.10538	-0.12304	-0.3917	0.0263	-0.0341
102	645	710	530	SLD 12	-0.09483	3.10538	-0.12304	-0.3917	0.0263	-0.0341
102	645	710	530	SLD 13	0.10067	-0.9318	-0.13351	0.1175	0.0321	0.0102
102	645	710	530	SLD 14	0.10067	-0.9318	-0.13351	0.1175	0.0321	0.0102
102	645	710	530	SLD 15	0.10067	0.9318	-0.13351	-0.1175	0.0321	-0.0102
102	645	710	530	SLD 16	0.10067	0.9318	-0.13351	-0.1175	0.0321	-0.0102
102	645	710	530	SLV 1	-0.89657	-2.39307	-0.08011	0.3018	0.0023	0.0264
102	645	710	530	SLV 2	-0.89657	-2.39307	-0.08011	0.3018	0.0023	0.0264
102	645	710	530	SLV 3	-0.89657	2.39307	-0.08011	-0.3018	0.0023	-0.0264
102	645	710	530	SLV 4	-0.89657	2.39307	-0.08011	-0.3018	0.0023	-0.0264
102	645	710	530	SLV 5	-0.39375	-7.97699	-0.10705	1.0061	0.0173	0.0876
102	645	710	530	SLV 6	-0.39375	-7.97699	-0.10705	1.0061	0.0173	0.0876
102	645	710	530	SLV 7	-0.39375	7.97699	-0.10705	-1.0061	0.0173	-0.0876
102	645	710	530	SLV 8	-0.39375	7.97699	-0.10705	-1.0061	0.0173	-0.0876
102	645	710	530	SLV 9	0.03697	-7.97709	-0.13011	1.0061	0.0302	0.0875
102	645	710	530	SLV 10	0.03697	-7.97709	-0.13011	1.0061	0.0302	0.0875
102	645	710	530	SLV 11	0.03697	7.97709	-0.13011	-1.0061	0.0302	-0.0875
102	645	710	530	SLV 12	0.03697	7.97709	-0.13011	-1.0061	0.0302	-0.0875
102	645	710	530	SLV 13	0.53917	-2.39341	-0.15699	0.3019	0.0453	0.0262
102	645	710	530	SLV 14	0.53917	-2.39341	-0.15699	0.3019	0.0453	0.0262
102	645	710	530	SLV 15	0.53917	2.39341	-0.15699	-0.3019	0.0453	-0.0262
102	645	710	530	SLV 16	0.53917	2.39341	-0.15699	-0.3019	0.0453	-0.0262
102	645	710	530	SLV FO 1	-0.89657	-2.39307	-0.08011	0.3018	0.0023	0.0264
102	645	710	530	SLV FO 2	-0.89657	-2.39307	-0.08011	0.3018	0.0023	0.0264
102	645	710	530	SLV FO 3	-0.89657	2.39307	-0.08011	-0.3018	0.0023	-0.0264
102	645	710	530	SLV FO 4	-0.89657	2.39307	-0.08011	-0.3018	0.0023	-0.0264
102	645	710	530	SLV FO 5	-0.39375	-7.97699	-0.10705	1.0061	0.0173	0.0876
102	645	710	530	SLV FO 6	-0.39375	-7.97699	-0.10705	1.0061	0.0173	0.0876
102	645	710	530	SLV FO 7	-0.39375	7.97699	-0.10705	-1.0061	0.0173	-0.0876
102	645	710	530	SLV FO 8	-0.39375	7.97699	-0.10705	-1.0061	0.0173	-0.0876
102	645	710	530	SLV FO 9	0.03697	-7.97709	-0.13011	1.0061	0.0302	0.0875
102	645	710	530	SLV FO 10	0.03697	-7.97709	-0.13011	1.0061	0.0302	0.0875
102	645	710	530	SLV FO 11	0.03697	7.97709	-0.13011	-1.0061	0.0302	-0.0875
102	645	710	530	SLV FO 12	0.03697	7.97709	-0.13011	-1.0061	0.0302	-0.0875
102	645	710	530	SLV FO 13	0.53917	-2.39341	-0.15699	0.3019	0.0453	0.0262
102	645	710	530	SLV FO 14	0.53917	-2.39341	-0.15699	0.3019	0.0453	0.0262
102	645	710	530	SLV FO 15	0.53917	2.39341	-0.15699	-0.3019	0.0453	-0.0262
102	645	710	530	SLV FO 16	0.53917	2.39341	-0.15699	-0.3019	0.0453	-0.0262
103	645	1210	530	SLU 1	-0.1309	-0.00005	-0.0957	0	0.0135	0
103	645	1210	530	SLU 2	0.05578	1.11371	-0.05999	-0.1389	-0.0027	-0.0047
103	645	1210	530	SLU 3	0.23994	1.11334	-0.04057	-0.1389	-0.0115	-0.0048
103	645	1210	530	SLU 4	0.17597	-0.00031	-0.06333	0	-0.0011	0
103	645	1210	530	SLU 5	0.28799	0.66767	-0.04191	-0.0833	-0.0109	-0.0029
103	645	1210	530	SLU 6	0.00734	1.11393	-0.07154	-0.139	0.0026	-0.0047
103	645	1210	530	SLU 7	0.19149	1.11336	-0.05212	-0.1389	-0.0062	-0.0047
103	645	1210	530	SLU 8	0.12753	-0.00024	-0.07488	0	0.0042	0
103	645	1210	530	SLU 9	0.23955	0.66782	-0.05346	-0.0833	-0.0056	-0.0029
103	645	1210	530	SLU 10	-0.22772	-0.00021	-0.1188	0	0.0242	0
103	645	1210	530	SLU 11	-0.11577	0.66852	-0.09737	-0.0834	0.0144	-0.0028
103	645	1210	530	SLU 12	-0.04367	-0.00003	-0.09937	0	0.0154	0
103	645	1210	530	SLU 13	0.06836	0.66805	-0.07795	-0.0833	0.0056	-0.0028
103	645	1210	530	SLU 14	-0.17709	-0.00013	-0.10646	0	0.0184	0

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
103	645	1210	530	SLU 15	0.00956	1.11393	-0.07076	-0.139	0.0022	-0.0047
103	645	1210	530	SLU 16	0.19372	1.11336	-0.05133	-0.1389	-0.0066	-0.0047
103	645	1210	530	SLU 17	0.12975	-0.00024	-0.07409	0	0.0038	0
103	645	1210	530	SLU 18	0.24177	0.66782	-0.05267	-0.0833	-0.006	-0.0029
103	645	1210	530	SLU 19	-0.03888	1.11399	-0.0823	-0.139	0.0075	-0.0047
103	645	1210	530	SLU 20	0.14527	1.11339	-0.06288	-0.1389	-0.0013	-0.0047
103	645	1210	530	SLU 21	0.08132	-0.00017	-0.08564	0	0.0091	0
103	645	1210	530	SLU 22	0.19336	0.66792	-0.06422	-0.0833	-0.0007	-0.0029
103	645	1210	530	SLU 23	-0.27391	-0.00029	-0.12956	0	0.0291	0
103	645	1210	530	SLU 24	-0.16195	0.66845	-0.10813	-0.0834	0.0193	-0.0028
103	645	1210	530	SLU 25	-0.08988	-0.00005	-0.11013	0	0.0203	0
103	645	1210	530	SLU 26	0.02214	0.66828	-0.08871	-0.0834	0.0105	-0.0028
103	645	1210	530	SLU 27	-0.17018	-0.00007	-0.12441	0	0.0176	0
103	645	1210	530	SLU 28	0.01649	1.11374	-0.0887	-0.1389	0.0013	-0.0047
103	645	1210	530	SLU 29	0.20065	1.11335	-0.06928	-0.1389	-0.0075	-0.0048
103	645	1210	530	SLU 30	0.13668	-0.00029	-0.09204	0	0.0029	0
103	645	1210	530	SLU 31	0.2487	0.66768	-0.07062	-0.0833	-0.0068	-0.0029
103	645	1210	530	SLU 32	-0.03195	1.11397	-0.10025	-0.139	0.0066	-0.0047
103	645	1210	530	SLU 33	0.15221	1.11338	-0.08083	-0.1389	-0.0021	-0.0047
103	645	1210	530	SLU 34	0.08825	-0.00023	-0.10358	0	0.0082	0
103	645	1210	530	SLU 35	0.20026	0.66784	-0.08216	-0.0833	-0.0015	-0.0029
103	645	1210	530	SLU 36	-0.26699	-0.00023	-0.14751	0	0.0282	0
103	645	1210	530	SLU 37	-0.15505	0.66855	-0.12608	-0.0834	0.0185	-0.0028
103	645	1210	530	SLU 38	-0.08296	-0.00001	-0.12808	0	0.0194	0
103	645	1210	530	SLU 39	0.02907	0.66806	-0.10666	-0.0833	0.0097	-0.0028
103	645	1210	530	SLU 40	-0.21636	-0.00014	-0.13517	0	0.0225	0
103	645	1210	530	SLU 41	-0.02972	1.11396	-0.09946	-0.139	0.0062	-0.0047
103	645	1210	530	SLU 42	0.15443	1.11337	-0.08004	-0.1389	-0.0026	-0.0047
103	645	1210	530	SLU 43	0.09047	-0.00023	-0.1028	0	0.0078	0
103	645	1210	530	SLU 44	0.20249	0.66783	-0.08138	-0.0833	-0.0019	-0.0029
103	645	1210	530	SLU 45	-0.07816	1.11412	-0.11101	-0.139	0.0115	-0.0047
103	645	1210	530	SLU 46	0.10599	1.11344	-0.09159	-0.1389	0.0028	-0.0047
103	645	1210	530	SLU 47	0.04203	-0.00016	-0.11435	0	0.0131	0
103	645	1210	530	SLU 48	0.15408	0.66793	-0.09292	-0.0833	0.0034	-0.0029
103	645	1210	530	SLU 49	-0.31318	-0.0003	-0.15827	0.0001	0.0331	0
103	645	1210	530	SLU 50	-0.20124	0.66847	-0.13684	-0.0834	0.0234	-0.0028
103	645	1210	530	SLU 51	-0.1291	-0.00007	-0.13885	0	0.0243	0
103	645	1210	530	SLU 52	-0.01714	0.66833	-0.11742	-0.0834	0.0146	-0.0028
103	645	1210	530	SLE RA 1	-0.16169	-0.0001	-0.10287	0	0.0168	0
103	645	1210	530	SLE RA 2	-0.03728	0.74265	-0.07907	-0.0927	0.0059	-0.0031
103	645	1210	530	SLE RA 3	0.0855	0.74226	-0.06612	-0.0926	0.0001	-0.0032
103	645	1210	530	SLE RA 4	0.04285	-0.00015	-0.08129	0	0.007	0
103	645	1210	530	SLE RA 5	0.11753	0.44523	-0.06701	-0.0555	0.0005	-0.0019
103	645	1210	530	SLE RA 6	-0.06956	0.74283	-0.08677	-0.0927	0.0095	-0.0032
103	645	1210	530	SLE RA 7	0.0532	0.74237	-0.07382	-0.0926	0.0036	-0.0032
103	645	1210	530	SLE RA 8	0.01056	-0.0001	-0.08899	0	0.0106	0
103	645	1210	530	SLE RA 9	0.08526	0.44529	-0.07471	-0.0555	0.0041	-0.0019
103	645	1210	530	SLE RA 10	-0.22624	-0.00021	-0.11827	0	0.0239	0
103	645	1210	530	SLE RA 11	-0.15161	0.44563	-0.10399	-0.0556	0.0174	-0.0019
103	645	1210	530	SLE RA 12	-0.10352	-0.00005	-0.10532	0	0.018	0
103	645	1210	530	SLE RA 13	-0.02889	0.44556	-0.09104	-0.0556	0.0115	-0.0019
103	645	1210	530	SLE FR 1	-0.16169	-0.0001	-0.10287	0	0.0168	0
103	645	1210	530	SLE FR 2	-0.13682	0.14851	-0.09811	-0.0185	0.0146	-0.0006
103	645	1210	530	SLE FR 3	-0.12079	-0.00005	-0.09856	0	0.0148	0
103	645	1210	530	SLE FR 4	-0.1746	-0.00012	-0.10595	0	0.0182	0
103	645	1210	530	SLE QP 1	-0.16169	-0.0001	-0.10287	0	0.0168	0
103	645	1210	530	SLD 1	-0.45974	-0.93192	-0.08606	0.1175	0.0074	0.0102
103	645	1210	530	SLD 2	-0.45974	-0.93192	-0.08606	0.1175	0.0074	0.0102
103	645	1210	530	SLD 3	-0.374	0.93135	-0.09191	-0.1175	0.0104	-0.0102
103	645	1210	530	SLD 4	-0.374	0.93135	-0.09191	-0.1175	0.0104	-0.0102
103	645	1210	530	SLD 5	-0.38119	-3.10647	-0.08896	0.3919	0.0094	0.0341
103	645	1210	530	SLD 6	-0.38119	-3.10647	-0.08896	0.3919	0.0094	0.0341
103	645	1210	530	SLD 7	-0.09531	3.10463	-0.10845	-0.3918	0.0195	-0.034
103	645	1210	530	SLD 8	-0.09531	3.10463	-0.10845	-0.3918	0.0195	-0.034
103	645	1210	530	SLD 9	-0.22808	-3.10651	-0.0973	0.3919	0.0141	0.0341
103	645	1210	530	SLD 10	-0.22808	-3.10651	-0.0973	0.3919	0.0141	0.0341
103	645	1210	530	SLD 11	0.05779	3.10467	-0.11679	-0.3918	0.0242	-0.034
103	645	1210	530	SLD 12	0.05779	3.10467	-0.11679	-0.3918	0.0242	-0.034
103	645	1210	530	SLD 13	0.05059	-0.93214	-0.11384	0.1176	0.0231	0.0102
103	645	1210	530	SLD 14	0.05059	-0.93214	-0.11384	0.1176	0.0231	0.0102
103	645	1210	530	SLD 15	0.13631	0.93157	-0.11968	-0.1176	0.0262	-0.0102
103	645	1210	530	SLD 16	0.13631	0.93157	-0.11968	-0.1176	0.0262	-0.0102
103	645	1210	530	SLV 1	-0.92735	-2.39393	-0.05969	0.302	-0.0073	0.0262
103	645	1210	530	SLV 2	-0.92735	-2.39393	-0.05969	0.302	-0.0073	0.0262
103	645	1210	530	SLV 3	-0.70705	2.39251	-0.07471	-0.3019	0.0005	-0.0262
103	645	1210	530	SLV 4	-0.70705	2.39251	-0.07471	-0.3019	0.0005	-0.0262
103	645	1210	530	SLV 5	-0.72554	-7.97988	-0.06714	1.0066	-0.0023	0.0876
103	645	1210	530	SLV 6	-0.72554	-7.97988	-0.06714	1.0066	-0.0023	0.0876
103	645	1210	530	SLV 7	0.00895	7.97517	-0.11722	-1.0064	0.0238	-0.0874
103	645	1210	530	SLV 8	0.00895	7.97517	-0.11722	-1.0064	0.0238	-0.0874
103	645	1210	530	SLV 9	-0.33224	-7.97998	-0.08855	1.0066	0.0098	0.0876
103	645	1210	530	SLV 10	-0.33224	-7.97998	-0.08855	1.0066	0.0098	0.0876
103	645	1210	530	SLV 11	0.40225	7.97527	-0.13862	-1.0064	0.0359	-0.0874
103	645	1210	530	SLV 12	0.40225	7.97527	-0.13862	-1.0064	0.0359	-0.0874
103	645	1210	530	SLV 13	0.38364	-2.39427	-0.13104	0.302	0.0331	0.0263
103	645	1210	530	SLV 14	0.38364	-2.39427	-0.13104	0.302	0.0331	0.0263
103	645	1210	530	SLV 15	0.60394	2.39285	-0.14606	-0.302	0.0409	-0.0263
103	645	1210	530	SLV 16	0.60394	2.39285	-0.14606	-0.302	0.0409	-0.0263
103	645	1210	530	SLV FO 1	-0.92735	-2.39393	-0.05969	0.302	-0.0073	0.0262
103	645	1210	530	SLV FO 2	-0.92735	-2.39393	-0.05969	0.302	-0.0073	0.0262
103	645	1210	530	SLV FO 3	-0.70705	2.39251	-0.07471	-0.3019	0.0005	-0.0262
103	645	1210	530	SLV FO 4	-0.70705	2.39251	-0.07471	-0.3019	0.0005	-0.0262
103	645	1210	530	SLV FO 5	-0.72554	-7.97988	-0.06714	1.0066	-0.0023	0.0876
103	645	1210	530	SLV FO 6	-0.72554	-7.97988	-0.06714	1.0066	-0.0023	0.0876
103	645	1210	530	SLV FO 7	0.00895	7.97517	-0.11722	-1.0064	0.0238	-0.0874
103	645	1210	530	SLV FO 8	0.00895	7.97517	-0.11722	-1.0064	0.0238	-0.0874
103	645	1210	530	SLV FO 9	-0.33224	-7.97998	-0.08855	1.0066	0.0098	0.0876
103	645	1210	530	SLV FO 10	-0.33224	-7.97998	-0.08855	1.0066	0.0098	0.0876
103	645	1210	530	SLV FO 11	0.40225	7.97527	-0.13862	-1.0064	0.0359	-0.0874
103	645	1210	530	SLV FO 12	0.40225	7.97527	-0.13862	-1.0064	0.0359	-0.0874

Nodo				Cont.	spostamento			rotazione		
Ind.	x	y	z	n.br.	ux	uy	uz	rx	ry	rz
103	645	1210	530	SLV FO 13	0.38364	-2.39427	-0.13104	0.302	0.0331	0.0263
103	645	1210	530	SLV FO 14	0.38364	-2.39427	-0.13104	0.302	0.0331	0.0263
103	645	1210	530	SLV FO 15	0.60394	2.39285	-0.14606	-0.302	0.0409	-0.0263
103	645	1210	530	SLV FO 16	0.60394	2.39285	-0.14606	-0.302	0.0409	-0.0263

43.2 Reazioni nodali

43.2.1 Reazioni nodali in combinazioni di carico

***Nodo**: Nodo sollecitato dalla reazione vincolare.*
***Ind.**: Indice del nodo sollecitato dalla reazione vincolare.*
***Cont.**: Contesto a cui si riferisce la reazione vincolare.*
***n.br.**: Nome breve della condizione o combinazione di carico.*
***Reazione a traslazione**: Reazione vincolare traslazionale del nodo.*
***x**: Componente X della reazione vincolare del nodo. [daN]*
***y**: Componente Y della reazione vincolare del nodo. [daN]*
***z**: Componente Z della reazione vincolare del nodo. [daN]*
***Reazione a rotazione**: Reazione vincolare rotazionale del nodo.*
***x**: Componente X della reazione a rotazione del nodo. [daN*cm]*
***y**: Componente Y della reazione a rotazione del nodo. [daN*cm]*
***z**: Componente Z della reazione a rotazione del nodo. [daN*cm]*

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
2	SLU 1	0	0	906	0	0	0
2	SLU 2	0	0	669	0	0	0
2	SLU 3	0	0	522	0	0	0
2	SLU 4	0	0	661	0	0	0
2	SLU 5	0	0	519	0	0	0
2	SLU 6	0	0	741	0	0	0
2	SLU 7	0	0	593	0	0	0
2	SLU 8	0	0	732	0	0	0
2	SLU 9	0	0	590	0	0	0
2	SLU 10	0	0	1048	0	0	0
2	SLU 11	0	0	906	0	0	0
2	SLU 12	0	0	901	0	0	0
2	SLU 13	0	0	759	0	0	0
2	SLU 14	0	0	973	0	0	0
2	SLU 15	0	0	737	0	0	0
2	SLU 16	0	0	590	0	0	0
2	SLU 17	0	0	728	0	0	0
2	SLU 18	0	0	586	0	0	0
2	SLU 19	0	0	808	0	0	0
2	SLU 20	0	0	661	0	0	0
2	SLU 21	0	0	799	0	0	0
2	SLU 22	0	0	657	0	0	0
2	SLU 23	0	0	1116	0	0	0
2	SLU 24	0	0	974	0	0	0
2	SLU 25	0	0	969	0	0	0
2	SLU 26	0	0	827	0	0	0
2	SLU 27	0	0	1178	0	0	0
2	SLU 28	0	0	941	0	0	0
2	SLU 29	0	0	794	0	0	0
2	SLU 30	0	0	932	0	0	0
2	SLU 31	0	0	790	0	0	0
2	SLU 32	0	0	1012	0	0	0
2	SLU 33	0	0	865	0	0	0
2	SLU 34	0	0	1003	0	0	0
2	SLU 35	0	0	862	0	0	0
2	SLU 36	0	0	1320	0	0	0
2	SLU 37	0	0	1178	0	0	0
2	SLU 38	0	0	1173	0	0	0
2	SLU 39	0	0	1031	0	0	0
2	SLU 40	0	0	1245	0	0	0
2	SLU 41	0	0	1009	0	0	0
2	SLU 42	0	0	861	0	0	0
2	SLU 43	0	0	1000	0	0	0
2	SLU 44	0	0	858	0	0	0
2	SLU 45	0	0	1080	0	0	0
2	SLU 46	0	0	933	0	0	0
2	SLU 47	0	0	1071	0	0	0
2	SLU 48	0	0	929	0	0	0
2	SLU 49	0	0	1388	0	0	0
2	SLU 50	0	0	1246	0	0	0
2	SLU 51	0	0	1240	0	0	0
2	SLU 52	0	0	1098	0	0	0
2	SLE RA 1	0	0	951	0	0	0
2	SLE RA 2	0	0	793	0	0	0
2	SLE RA 3	0	0	695	0	0	0
2	SLE RA 4	0	0	787	0	0	0
2	SLE RA 5	0	0	693	0	0	0
2	SLE RA 6	0	0	841	0	0	0
2	SLE RA 7	0	0	742	0	0	0
2	SLE RA 8	0	0	835	0	0	0
2	SLE RA 9	0	0	740	0	0	0
2	SLE RA 10	0	0	1046	0	0	0
2	SLE RA 11	0	0	951	0	0	0
2	SLE RA 12	0	0	948	0	0	0
2	SLE RA 13	0	0	853	0	0	0
2	SLE FR 1	0	0	951	0	0	0
2	SLE FR 2	0	0	919	0	0	0
2	SLE FR 3	0	0	918	0	0	0
2	SLE FR 4	0	0	970	0	0	0
2	SLE QP 1	0	0	951	0	0	0
2	SLD 1	0	0	976	0	0	0
2	SLD 2	0	0	976	0	0	0
2	SLD 3	0	0	980	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
2	SLD 4	0	0	980	0	0	0
2	SLD 5	0	0	952	0	0	0
2	SLD 6	0	0	952	0	0	0
2	SLD 7	0	0	966	0	0	0
2	SLD 8	0	0	966	0	0	0
2	SLD 9	0	0	936	0	0	0
2	SLD 10	0	0	936	0	0	0
2	SLD 11	0	0	949	0	0	0
2	SLD 12	0	0	949	0	0	0
2	SLD 13	0	0	922	0	0	0
2	SLD 14	0	0	922	0	0	0
2	SLD 15	0	0	926	0	0	0
2	SLD 16	0	0	926	0	0	0
2	SLV 1	0	0	1015	0	0	0
2	SLV 2	0	0	1015	0	0	0
2	SLV 3	0	0	1026	0	0	0
2	SLV 4	0	0	1026	0	0	0
2	SLV 5	0	0	955	0	0	0
2	SLV 6	0	0	955	0	0	0
2	SLV 7	0	0	989	0	0	0
2	SLV 8	0	0	989	0	0	0
2	SLV 9	0	0	913	0	0	0
2	SLV 10	0	0	913	0	0	0
2	SLV 11	0	0	947	0	0	0
2	SLV 12	0	0	947	0	0	0
2	SLV 13	0	0	876	0	0	0
2	SLV 14	0	0	876	0	0	0
2	SLV 15	0	0	887	0	0	0
2	SLV 16	0	0	887	0	0	0
2	SLV FO 1	0	0	1015	0	0	0
2	SLV FO 2	0	0	1015	0	0	0
2	SLV FO 3	0	0	1026	0	0	0
2	SLV FO 4	0	0	1026	0	0	0
2	SLV FO 5	0	0	955	0	0	0
2	SLV FO 6	0	0	955	0	0	0
2	SLV FO 7	0	0	989	0	0	0
2	SLV FO 8	0	0	989	0	0	0
2	SLV FO 9	0	0	913	0	0	0
2	SLV FO 10	0	0	913	0	0	0
2	SLV FO 11	0	0	947	0	0	0
2	SLV FO 12	0	0	947	0	0	0
2	SLV FO 13	0	0	876	0	0	0
2	SLV FO 14	0	0	876	0	0	0
2	SLV FO 15	0	0	887	0	0	0
2	SLV FO 16	0	0	887	0	0	0
3	SLU 1	0	0	853	0	0	0
3	SLU 2	0	0	669	0	0	0
3	SLU 3	0	0	569	0	0	0
3	SLU 4	0	0	687	0	0	0
3	SLU 5	0	0	577	0	0	0
3	SLU 6	0	0	724	0	0	0
3	SLU 7	0	0	625	0	0	0
3	SLU 8	0	0	742	0	0	0
3	SLU 9	0	0	632	0	0	0
3	SLU 10	0	0	964	0	0	0
3	SLU 11	0	0	853	0	0	0
3	SLU 12	0	0	864	0	0	0
3	SLU 13	0	0	754	0	0	0
3	SLU 14	0	0	905	0	0	0
3	SLU 15	0	0	721	0	0	0
3	SLU 16	0	0	621	0	0	0
3	SLU 17	0	0	739	0	0	0
3	SLU 18	0	0	628	0	0	0
3	SLU 19	0	0	776	0	0	0
3	SLU 20	0	0	676	0	0	0
3	SLU 21	0	0	794	0	0	0
3	SLU 22	0	0	684	0	0	0
3	SLU 23	0	0	1016	0	0	0
3	SLU 24	0	0	905	0	0	0
3	SLU 25	0	0	916	0	0	0
3	SLU 26	0	0	805	0	0	0
3	SLU 27	0	0	1109	0	0	0
3	SLU 28	0	0	925	0	0	0
3	SLU 29	0	0	825	0	0	0
3	SLU 30	0	0	943	0	0	0
3	SLU 31	0	0	833	0	0	0
3	SLU 32	0	0	980	0	0	0
3	SLU 33	0	0	881	0	0	0
3	SLU 34	0	0	998	0	0	0
3	SLU 35	0	0	888	0	0	0
3	SLU 36	0	0	1220	0	0	0
3	SLU 37	0	0	1109	0	0	0
3	SLU 38	0	0	1120	0	0	0
3	SLU 39	0	0	1010	0	0	0
3	SLU 40	0	0	1161	0	0	0
3	SLU 41	0	0	977	0	0	0
3	SLU 42	0	0	877	0	0	0
3	SLU 43	0	0	995	0	0	0
3	SLU 44	0	0	884	0	0	0
3	SLU 45	0	0	1032	0	0	0
3	SLU 46	0	0	932	0	0	0
3	SLU 47	0	0	1050	0	0	0
3	SLU 48	0	0	940	0	0	0
3	SLU 49	0	0	1272	0	0	0
3	SLU 50	0	0	1161	0	0	0
3	SLU 51	0	0	1172	0	0	0
3	SLU 52	0	0	1061	0	0	0
3	SLE RA 1	0	0	888	0	0	0
3	SLE RA 2	0	0	765	0	0	0
3	SLE RA 3	0	0	698	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
3	SLE RA 4	0	0	777	0	0	0
3	SLE RA 5	0	0	703	0	0	0
3	SLE RA 6	0	0	802	0	0	0
3	SLE RA 7	0	0	735	0	0	0
3	SLE RA 8	0	0	814	0	0	0
3	SLE RA 9	0	0	740	0	0	0
3	SLE RA 10	0	0	961	0	0	0
3	SLE RA 11	0	0	888	0	0	0
3	SLE RA 12	0	0	895	0	0	0
3	SLE RA 13	0	0	821	0	0	0
3	SLE FR 1	0	0	888	0	0	0
3	SLE FR 2	0	0	863	0	0	0
3	SLE FR 3	0	0	866	0	0	0
3	SLE FR 4	0	0	902	0	0	0
3	SLE QP 1	0	0	888	0	0	0
3	SLD 1	0	0	866	0	0	0
3	SLD 2	0	0	866	0	0	0
3	SLD 3	0	0	855	0	0	0
3	SLD 4	0	0	855	0	0	0
3	SLD 5	0	0	898	0	0	0
3	SLD 6	0	0	898	0	0	0
3	SLD 7	0	0	861	0	0	0
3	SLD 8	0	0	861	0	0	0
3	SLD 9	0	0	914	0	0	0
3	SLD 10	0	0	914	0	0	0
3	SLD 11	0	0	878	0	0	0
3	SLD 12	0	0	878	0	0	0
3	SLD 13	0	0	920	0	0	0
3	SLD 14	0	0	920	0	0	0
3	SLD 15	0	0	910	0	0	0
3	SLD 16	0	0	910	0	0	0
3	SLV 1	0	0	831	0	0	0
3	SLV 2	0	0	831	0	0	0
3	SLV 3	0	0	803	0	0	0
3	SLV 4	0	0	803	0	0	0
3	SLV 5	0	0	913	0	0	0
3	SLV 6	0	0	913	0	0	0
3	SLV 7	0	0	820	0	0	0
3	SLV 8	0	0	820	0	0	0
3	SLV 9	0	0	956	0	0	0
3	SLV 10	0	0	956	0	0	0
3	SLV 11	0	0	862	0	0	0
3	SLV 12	0	0	862	0	0	0
3	SLV 13	0	0	972	0	0	0
3	SLV 14	0	0	972	0	0	0
3	SLV 15	0	0	944	0	0	0
3	SLV 16	0	0	944	0	0	0
3	SLV FO 1	0	0	831	0	0	0
3	SLV FO 2	0	0	831	0	0	0
3	SLV FO 3	0	0	803	0	0	0
3	SLV FO 4	0	0	803	0	0	0
3	SLV FO 5	0	0	913	0	0	0
3	SLV FO 6	0	0	913	0	0	0
3	SLV FO 7	0	0	820	0	0	0
3	SLV FO 8	0	0	820	0	0	0
3	SLV FO 9	0	0	956	0	0	0
3	SLV FO 10	0	0	956	0	0	0
3	SLV FO 11	0	0	862	0	0	0
3	SLV FO 12	0	0	862	0	0	0
3	SLV FO 13	0	0	972	0	0	0
3	SLV FO 14	0	0	972	0	0	0
3	SLV FO 15	0	0	944	0	0	0
3	SLV FO 16	0	0	944	0	0	0
4	SLU 1	0	0	951	0	0	0
4	SLU 2	0	0	492	0	0	0
4	SLU 3	0	0	213	0	0	0
4	SLU 4	0	0	486	0	0	0
4	SLU 5	0	0	211	0	0	0
4	SLU 6	0	0	630	0	0	0
4	SLU 7	0	0	352	0	0	0
4	SLU 8	0	0	624	0	0	0
4	SLU 9	0	0	349	0	0	0
4	SLU 10	0	0	1227	0	0	0
4	SLU 11	0	0	952	0	0	0
4	SLU 12	0	0	948	0	0	0
4	SLU 13	0	0	673	0	0	0
4	SLU 14	0	0	1082	0	0	0
4	SLU 15	0	0	623	0	0	0
4	SLU 16	0	0	344	0	0	0
4	SLU 17	0	0	617	0	0	0
4	SLU 18	0	0	342	0	0	0
4	SLU 19	0	0	761	0	0	0
4	SLU 20	0	0	483	0	0	0
4	SLU 21	0	0	755	0	0	0
4	SLU 22	0	0	480	0	0	0
4	SLU 23	0	0	1358	0	0	0
4	SLU 24	0	0	1083	0	0	0
4	SLU 25	0	0	1079	0	0	0
4	SLU 26	0	0	804	0	0	0
4	SLU 27	0	0	1236	0	0	0
4	SLU 28	0	0	777	0	0	0
4	SLU 29	0	0	499	0	0	0
4	SLU 30	0	0	771	0	0	0
4	SLU 31	0	0	496	0	0	0
4	SLU 32	0	0	916	0	0	0
4	SLU 33	0	0	637	0	0	0
4	SLU 34	0	0	909	0	0	0
4	SLU 35	0	0	634	0	0	0
4	SLU 36	0	0	1512	0	0	0
4	SLU 37	0	0	1237	0	0	0
4	SLU 38	0	0	1233	0	0	0
4	SLU 39	0	0	958	0	0	0
4	SLU 40	0	0	1367	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
4	SLU 41	0	0	908	0	0	0
4	SLU 42	0	0	630	0	0	0
4	SLU 43	0	0	902	0	0	0
4	SLU 44	0	0	627	0	0	0
4	SLU 45	0	0	1047	0	0	0
4	SLU 46	0	0	768	0	0	0
4	SLU 47	0	0	1040	0	0	0
4	SLU 48	0	0	765	0	0	0
4	SLU 49	0	0	1643	0	0	0
4	SLU 50	0	0	1368	0	0	0
4	SLU 51	0	0	1364	0	0	0
4	SLU 52	0	0	1089	0	0	0
4	SLE RA 1	0	0	1038	0	0	0
4	SLE RA 2	0	0	732	0	0	0
4	SLE RA 3	0	0	546	0	0	0
4	SLE RA 4	0	0	728	0	0	0
4	SLE RA 5	0	0	545	0	0	0
4	SLE RA 6	0	0	825	0	0	0
4	SLE RA 7	0	0	639	0	0	0
4	SLE RA 8	0	0	820	0	0	0
4	SLE RA 9	0	0	637	0	0	0
4	SLE RA 10	0	0	1222	0	0	0
4	SLE RA 11	0	0	1039	0	0	0
4	SLE RA 12	0	0	1036	0	0	0
4	SLE RA 13	0	0	853	0	0	0
4	SLE FR 1	0	0	1038	0	0	0
4	SLE FR 2	0	0	977	0	0	0
4	SLE FR 3	0	0	976	0	0	0
4	SLE FR 4	0	0	1075	0	0	0
4	SLE QP 1	0	0	1038	0	0	0
4	SLD 1	0	0	1067	0	0	0
4	SLD 2	0	0	1067	0	0	0
4	SLD 3	0	0	1067	0	0	0
4	SLD 4	0	0	1067	0	0	0
4	SLD 5	0	0	1047	0	0	0
4	SLD 6	0	0	1047	0	0	0
4	SLD 7	0	0	1047	0	0	0
4	SLD 8	0	0	1047	0	0	0
4	SLD 9	0	0	1029	0	0	0
4	SLD 10	0	0	1029	0	0	0
4	SLD 11	0	0	1029	0	0	0
4	SLD 12	0	0	1029	0	0	0
4	SLD 13	0	0	1009	0	0	0
4	SLD 14	0	0	1009	0	0	0
4	SLD 15	0	0	1009	0	0	0
4	SLD 16	0	0	1009	0	0	0
4	SLV 1	0	0	1113	0	0	0
4	SLV 2	0	0	1113	0	0	0
4	SLV 3	0	0	1113	0	0	0
4	SLV 4	0	0	1113	0	0	0
4	SLV 5	0	0	1061	0	0	0
4	SLV 6	0	0	1061	0	0	0
4	SLV 7	0	0	1061	0	0	0
4	SLV 8	0	0	1061	0	0	0
4	SLV 9	0	0	1015	0	0	0
4	SLV 10	0	0	1015	0	0	0
4	SLV 11	0	0	1015	0	0	0
4	SLV 12	0	0	1015	0	0	0
4	SLV 13	0	0	963	0	0	0
4	SLV 14	0	0	963	0	0	0
4	SLV 15	0	0	963	0	0	0
4	SLV 16	0	0	963	0	0	0
4	SLV FO 1	0	0	1113	0	0	0
4	SLV FO 2	0	0	1113	0	0	0
4	SLV FO 3	0	0	1113	0	0	0
4	SLV FO 4	0	0	1113	0	0	0
4	SLV FO 5	0	0	1061	0	0	0
4	SLV FO 6	0	0	1061	0	0	0
4	SLV FO 7	0	0	1061	0	0	0
4	SLV FO 8	0	0	1061	0	0	0
4	SLV FO 9	0	0	1015	0	0	0
4	SLV FO 10	0	0	1015	0	0	0
4	SLV FO 11	0	0	1015	0	0	0
4	SLV FO 12	0	0	1015	0	0	0
4	SLV FO 13	0	0	963	0	0	0
4	SLV FO 14	0	0	963	0	0	0
4	SLV FO 15	0	0	963	0	0	0
4	SLV FO 16	0	0	963	0	0	0
5	SLU 1	0	0	894	0	0	0
5	SLU 2	0	0	518	0	0	0
5	SLU 3	0	0	301	0	0	0
5	SLU 4	0	0	534	0	0	0
5	SLU 5	0	0	308	0	0	0
5	SLU 6	0	0	632	0	0	0
5	SLU 7	0	0	416	0	0	0
5	SLU 8	0	0	649	0	0	0
5	SLU 9	0	0	423	0	0	0
5	SLU 10	0	0	1124	0	0	0
5	SLU 11	0	0	898	0	0	0
5	SLU 12	0	0	908	0	0	0
5	SLU 13	0	0	682	0	0	0
5	SLU 14	0	0	1002	0	0	0
5	SLU 15	0	0	625	0	0	0
5	SLU 16	0	0	409	0	0	0
5	SLU 17	0	0	641	0	0	0
5	SLU 18	0	0	416	0	0	0
5	SLU 19	0	0	740	0	0	0
5	SLU 20	0	0	524	0	0	0
5	SLU 21	0	0	756	0	0	0
5	SLU 22	0	0	531	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
5	SLU 23	0	0	1231	0	0	0
5	SLU 24	0	0	1006	0	0	0
5	SLU 25	0	0	1015	0	0	0
5	SLU 26	0	0	789	0	0	0
5	SLU 27	0	0	1162	0	0	0
5	SLU 28	0	0	786	0	0	0
5	SLU 29	0	0	570	0	0	0
5	SLU 30	0	0	802	0	0	0
5	SLU 31	0	0	576	0	0	0
5	SLU 32	0	0	901	0	0	0
5	SLU 33	0	0	685	0	0	0
5	SLU 34	0	0	917	0	0	0
5	SLU 35	0	0	691	0	0	0
5	SLU 36	0	0	1392	0	0	0
5	SLU 37	0	0	1166	0	0	0
5	SLU 38	0	0	1176	0	0	0
5	SLU 39	0	0	950	0	0	0
5	SLU 40	0	0	1270	0	0	0
5	SLU 41	0	0	893	0	0	0
5	SLU 42	0	0	677	0	0	0
5	SLU 43	0	0	910	0	0	0
5	SLU 44	0	0	684	0	0	0
5	SLU 45	0	0	1008	0	0	0
5	SLU 46	0	0	792	0	0	0
5	SLU 47	0	0	1025	0	0	0
5	SLU 48	0	0	799	0	0	0
5	SLU 49	0	0	1500	0	0	0
5	SLU 50	0	0	1274	0	0	0
5	SLU 51	0	0	1284	0	0	0
5	SLU 52	0	0	1058	0	0	0
5	SLE RA 1	0	0	966	0	0	0
5	SLE RA 2	0	0	715	0	0	0
5	SLE RA 3	0	0	571	0	0	0
5	SLE RA 4	0	0	726	0	0	0
5	SLE RA 5	0	0	575	0	0	0
5	SLE RA 6	0	0	791	0	0	0
5	SLE RA 7	0	0	647	0	0	0
5	SLE RA 8	0	0	802	0	0	0
5	SLE RA 9	0	0	652	0	0	0
5	SLE RA 10	0	0	1119	0	0	0
5	SLE RA 11	0	0	968	0	0	0
5	SLE RA 12	0	0	975	0	0	0
5	SLE RA 13	0	0	824	0	0	0
5	SLE FR 1	0	0	966	0	0	0
5	SLE FR 2	0	0	915	0	0	0
5	SLE FR 3	0	0	918	0	0	0
5	SLE FR 4	0	0	996	0	0	0
5	SLE QP 1	0	0	966	0	0	0
5	SLD 1	0	0	937	0	0	0
5	SLD 2	0	0	937	0	0	0
5	SLD 3	0	0	937	0	0	0
5	SLD 4	0	0	937	0	0	0
5	SLD 5	0	0	957	0	0	0
5	SLD 6	0	0	957	0	0	0
5	SLD 7	0	0	957	0	0	0
5	SLD 8	0	0	957	0	0	0
5	SLD 9	0	0	974	0	0	0
5	SLD 10	0	0	974	0	0	0
5	SLD 11	0	0	974	0	0	0
5	SLD 12	0	0	974	0	0	0
5	SLD 13	0	0	994	0	0	0
5	SLD 14	0	0	994	0	0	0
5	SLD 15	0	0	994	0	0	0
5	SLD 16	0	0	994	0	0	0
5	SLV 1	0	0	892	0	0	0
5	SLV 2	0	0	892	0	0	0
5	SLV 3	0	0	892	0	0	0
5	SLV 4	0	0	892	0	0	0
5	SLV 5	0	0	943	0	0	0
5	SLV 6	0	0	943	0	0	0
5	SLV 7	0	0	943	0	0	0
5	SLV 8	0	0	943	0	0	0
5	SLV 9	0	0	988	0	0	0
5	SLV 10	0	0	988	0	0	0
5	SLV 11	0	0	988	0	0	0
5	SLV 12	0	0	988	0	0	0
5	SLV 13	0	0	1040	0	0	0
5	SLV 14	0	0	1040	0	0	0
5	SLV 15	0	0	1040	0	0	0
5	SLV 16	0	0	1040	0	0	0
5	SLV FO 1	0	0	892	0	0	0
5	SLV FO 2	0	0	892	0	0	0
5	SLV FO 3	0	0	892	0	0	0
5	SLV FO 4	0	0	892	0	0	0
5	SLV FO 5	0	0	943	0	0	0
5	SLV FO 6	0	0	943	0	0	0
5	SLV FO 7	0	0	943	0	0	0
5	SLV FO 8	0	0	943	0	0	0
5	SLV FO 9	0	0	988	0	0	0
5	SLV FO 10	0	0	988	0	0	0
5	SLV FO 11	0	0	988	0	0	0
5	SLV FO 12	0	0	988	0	0	0
5	SLV FO 13	0	0	1040	0	0	0
5	SLV FO 14	0	0	1040	0	0	0
5	SLV FO 15	0	0	1040	0	0	0
5	SLV FO 16	0	0	1040	0	0	0
6	SLU 1	0	0	906	0	0	0
6	SLU 2	0	0	670	0	0	0
6	SLU 3	0	0	523	0	0	0
6	SLU 4	0	0	661	0	0	0
6	SLU 5	0	0	519	0	0	0
6	SLU 6	0	0	741	0	0	0
6	SLU 7	0	0	594	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
6	SLU 8	0	0	732	0	0	0
6	SLU 9	0	0	590	0	0	0
6	SLU 10	0	0	1048	0	0	0
6	SLU 11	0	0	907	0	0	0
6	SLU 12	0	0	901	0	0	0
6	SLU 13	0	0	760	0	0	0
6	SLU 14	0	0	973	0	0	0
6	SLU 15	0	0	738	0	0	0
6	SLU 16	0	0	590	0	0	0
6	SLU 17	0	0	728	0	0	0
6	SLU 18	0	0	587	0	0	0
6	SLU 19	0	0	809	0	0	0
6	SLU 20	0	0	662	0	0	0
6	SLU 21	0	0	799	0	0	0
6	SLU 22	0	0	658	0	0	0
6	SLU 23	0	0	1116	0	0	0
6	SLU 24	0	0	974	0	0	0
6	SLU 25	0	0	969	0	0	0
6	SLU 26	0	0	827	0	0	0
6	SLU 27	0	0	1178	0	0	0
6	SLU 28	0	0	942	0	0	0
6	SLU 29	0	0	795	0	0	0
6	SLU 30	0	0	932	0	0	0
6	SLU 31	0	0	791	0	0	0
6	SLU 32	0	0	1013	0	0	0
6	SLU 33	0	0	866	0	0	0
6	SLU 34	0	0	1003	0	0	0
6	SLU 35	0	0	862	0	0	0
6	SLU 36	0	0	1320	0	0	0
6	SLU 37	0	0	1179	0	0	0
6	SLU 38	0	0	1173	0	0	0
6	SLU 39	0	0	1031	0	0	0
6	SLU 40	0	0	1245	0	0	0
6	SLU 41	0	0	1009	0	0	0
6	SLU 42	0	0	862	0	0	0
6	SLU 43	0	0	1000	0	0	0
6	SLU 44	0	0	858	0	0	0
6	SLU 45	0	0	1081	0	0	0
6	SLU 46	0	0	933	0	0	0
6	SLU 47	0	0	1071	0	0	0
6	SLU 48	0	0	929	0	0	0
6	SLU 49	0	0	1388	0	0	0
6	SLU 50	0	0	1246	0	0	0
6	SLU 51	0	0	1240	0	0	0
6	SLU 52	0	0	1099	0	0	0
6	SLE RA 1	0	0	951	0	0	0
6	SLE RA 2	0	0	794	0	0	0
6	SLE RA 3	0	0	696	0	0	0
6	SLE RA 4	0	0	787	0	0	0
6	SLE RA 5	0	0	693	0	0	0
6	SLE RA 6	0	0	841	0	0	0
6	SLE RA 7	0	0	743	0	0	0
6	SLE RA 8	0	0	835	0	0	0
6	SLE RA 9	0	0	740	0	0	0
6	SLE RA 10	0	0	1046	0	0	0
6	SLE RA 11	0	0	952	0	0	0
6	SLE RA 12	0	0	948	0	0	0
6	SLE RA 13	0	0	853	0	0	0
6	SLE FR 1	0	0	951	0	0	0
6	SLE FR 2	0	0	919	0	0	0
6	SLE FR 3	0	0	918	0	0	0
6	SLE FR 4	0	0	970	0	0	0
6	SLE QP 1	0	0	951	0	0	0
6	SLD 1	0	0	980	0	0	0
6	SLD 2	0	0	980	0	0	0
6	SLD 3	0	0	976	0	0	0
6	SLD 4	0	0	976	0	0	0
6	SLD 5	0	0	966	0	0	0
6	SLD 6	0	0	966	0	0	0
6	SLD 7	0	0	952	0	0	0
6	SLD 8	0	0	952	0	0	0
6	SLD 9	0	0	949	0	0	0
6	SLD 10	0	0	949	0	0	0
6	SLD 11	0	0	936	0	0	0
6	SLD 12	0	0	936	0	0	0
6	SLD 13	0	0	926	0	0	0
6	SLD 14	0	0	926	0	0	0
6	SLD 15	0	0	922	0	0	0
6	SLD 16	0	0	922	0	0	0
6	SLV 1	0	0	1026	0	0	0
6	SLV 2	0	0	1026	0	0	0
6	SLV 3	0	0	1015	0	0	0
6	SLV 4	0	0	1015	0	0	0
6	SLV 5	0	0	989	0	0	0
6	SLV 6	0	0	989	0	0	0
6	SLV 7	0	0	955	0	0	0
6	SLV 8	0	0	955	0	0	0
6	SLV 9	0	0	947	0	0	0
6	SLV 10	0	0	947	0	0	0
6	SLV 11	0	0	913	0	0	0
6	SLV 12	0	0	913	0	0	0
6	SLV 13	0	0	887	0	0	0
6	SLV 14	0	0	887	0	0	0
6	SLV 15	0	0	876	0	0	0
6	SLV 16	0	0	876	0	0	0
6	SLV FO 1	0	0	1026	0	0	0
6	SLV FO 2	0	0	1026	0	0	0
6	SLV FO 3	0	0	1015	0	0	0
6	SLV FO 4	0	0	1015	0	0	0
6	SLV FO 5	0	0	989	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
6	SLV FO 6	0	0	989	0	0	0
6	SLV FO 7	0	0	955	0	0	0
6	SLV FO 8	0	0	955	0	0	0
6	SLV FO 9	0	0	947	0	0	0
6	SLV FO 10	0	0	947	0	0	0
6	SLV FO 11	0	0	913	0	0	0
6	SLV FO 12	0	0	913	0	0	0
6	SLV FO 13	0	0	887	0	0	0
6	SLV FO 14	0	0	887	0	0	0
6	SLV FO 15	0	0	876	0	0	0
6	SLV FO 16	0	0	876	0	0	0
7	SLU 1	0	0	853	0	0	0
7	SLU 2	0	0	676	0	0	0
7	SLU 3	0	0	576	0	0	0
7	SLU 4	0	0	687	0	0	0
7	SLU 5	0	0	580	0	0	0
7	SLU 6	0	0	731	0	0	0
7	SLU 7	0	0	631	0	0	0
7	SLU 8	0	0	742	0	0	0
7	SLU 9	0	0	636	0	0	0
7	SLU 10	0	0	964	0	0	0
7	SLU 11	0	0	857	0	0	0
7	SLU 12	0	0	864	0	0	0
7	SLU 13	0	0	758	0	0	0
7	SLU 14	0	0	905	0	0	0
7	SLU 15	0	0	727	0	0	0
7	SLU 16	0	0	628	0	0	0
7	SLU 17	0	0	739	0	0	0
7	SLU 18	0	0	632	0	0	0
7	SLU 19	0	0	783	0	0	0
7	SLU 20	0	0	683	0	0	0
7	SLU 21	0	0	794	0	0	0
7	SLU 22	0	0	687	0	0	0
7	SLU 23	0	0	1016	0	0	0
7	SLU 24	0	0	909	0	0	0
7	SLU 25	0	0	916	0	0	0
7	SLU 26	0	0	809	0	0	0
7	SLU 27	0	0	1109	0	0	0
7	SLU 28	0	0	931	0	0	0
7	SLU 29	0	0	832	0	0	0
7	SLU 30	0	0	943	0	0	0
7	SLU 31	0	0	836	0	0	0
7	SLU 32	0	0	987	0	0	0
7	SLU 33	0	0	887	0	0	0
7	SLU 34	0	0	998	0	0	0
7	SLU 35	0	0	892	0	0	0
7	SLU 36	0	0	1220	0	0	0
7	SLU 37	0	0	1113	0	0	0
7	SLU 38	0	0	1120	0	0	0
7	SLU 39	0	0	1013	0	0	0
7	SLU 40	0	0	1161	0	0	0
7	SLU 41	0	0	983	0	0	0
7	SLU 42	0	0	884	0	0	0
7	SLU 43	0	0	995	0	0	0
7	SLU 44	0	0	888	0	0	0
7	SLU 45	0	0	1038	0	0	0
7	SLU 46	0	0	939	0	0	0
7	SLU 47	0	0	1050	0	0	0
7	SLU 48	0	0	943	0	0	0
7	SLU 49	0	0	1272	0	0	0
7	SLU 50	0	0	1165	0	0	0
7	SLU 51	0	0	1172	0	0	0
7	SLU 52	0	0	1065	0	0	0
7	SLE RA 1	0	0	888	0	0	0
7	SLE RA 2	0	0	769	0	0	0
7	SLE RA 3	0	0	703	0	0	0
7	SLE RA 4	0	0	777	0	0	0
7	SLE RA 5	0	0	706	0	0	0
7	SLE RA 6	0	0	806	0	0	0
7	SLE RA 7	0	0	740	0	0	0
7	SLE RA 8	0	0	814	0	0	0
7	SLE RA 9	0	0	743	0	0	0
7	SLE RA 10	0	0	961	0	0	0
7	SLE RA 11	0	0	890	0	0	0
7	SLE RA 12	0	0	895	0	0	0
7	SLE RA 13	0	0	824	0	0	0
7	SLE FR 1	0	0	888	0	0	0
7	SLE FR 2	0	0	864	0	0	0
7	SLE FR 3	0	0	866	0	0	0
7	SLE FR 4	0	0	902	0	0	0
7	SLE QP 1	0	0	888	0	0	0
7	SLD 1	0	0	855	0	0	0
7	SLD 2	0	0	855	0	0	0
7	SLD 3	0	0	866	0	0	0
7	SLD 4	0	0	866	0	0	0
7	SLD 5	0	0	861	0	0	0
7	SLD 6	0	0	861	0	0	0
7	SLD 7	0	0	898	0	0	0
7	SLD 8	0	0	898	0	0	0
7	SLD 9	0	0	878	0	0	0
7	SLD 10	0	0	878	0	0	0
7	SLD 11	0	0	914	0	0	0
7	SLD 12	0	0	914	0	0	0
7	SLD 13	0	0	910	0	0	0
7	SLD 14	0	0	910	0	0	0
7	SLD 15	0	0	920	0	0	0
7	SLD 16	0	0	920	0	0	0
7	SLV 1	0	0	803	0	0	0
7	SLV 2	0	0	803	0	0	0
7	SLV 3	0	0	831	0	0	0
7	SLV 4	0	0	831	0	0	0
7	SLV 5	0	0	820	0	0	0
7	SLV 6	0	0	820	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
7	SLV 7	0	0	913	0	0	0
7	SLV 8	0	0	913	0	0	0
7	SLV 9	0	0	862	0	0	0
7	SLV 10	0	0	862	0	0	0
7	SLV 11	0	0	956	0	0	0
7	SLV 12	0	0	956	0	0	0
7	SLV 13	0	0	944	0	0	0
7	SLV 14	0	0	944	0	0	0
7	SLV 15	0	0	972	0	0	0
7	SLV 16	0	0	972	0	0	0
7	SLV FO 1	0	0	803	0	0	0
7	SLV FO 2	0	0	803	0	0	0
7	SLV FO 3	0	0	831	0	0	0
7	SLV FO 4	0	0	831	0	0	0
7	SLV FO 5	0	0	820	0	0	0
7	SLV FO 6	0	0	820	0	0	0
7	SLV FO 7	0	0	913	0	0	0
7	SLV FO 8	0	0	913	0	0	0
7	SLV FO 9	0	0	862	0	0	0
7	SLV FO 10	0	0	862	0	0	0
7	SLV FO 11	0	0	956	0	0	0
7	SLV FO 12	0	0	956	0	0	0
7	SLV FO 13	0	0	944	0	0	0
7	SLV FO 14	0	0	944	0	0	0
7	SLV FO 15	0	0	972	0	0	0
7	SLV FO 16	0	0	972	0	0	0
8	SLU 1	-209	0	2644	0	0	0
8	SLU 2	59	205	1954	0	0	302
8	SLU 3	324	205	1524	0	0	302
8	SLU 4	233	0	1928	0	0	0
8	SLU 5	394	123	1513	0	0	181
8	SLU 6	-29	205	2161	0	0	302
8	SLU 7	237	205	1732	0	0	302
8	SLU 8	146	0	2136	0	0	0
8	SLU 9	306	123	1721	0	0	181
8	SLU 10	-384	0	3060	0	0	0
8	SLU 11	-223	123	2646	0	0	181
8	SLU 12	-119	0	2630	0	0	0
8	SLU 13	42	123	2216	0	0	181
8	SLU 14	-290	0	2841	0	0	0
8	SLU 15	-22	205	2151	0	0	302
8	SLU 16	243	205	1721	0	0	302
8	SLU 17	152	0	2125	0	0	0
8	SLU 18	313	123	1710	0	0	181
8	SLU 19	-110	205	2358	0	0	302
8	SLU 20	156	205	1929	0	0	302
8	SLU 21	65	0	2333	0	0	0
8	SLU 22	225	123	1918	0	0	181
8	SLU 23	-465	0	3257	0	0	0
8	SLU 24	-304	123	2843	0	0	181
8	SLU 25	-200	0	2827	0	0	0
8	SLU 26	-39	123	2413	0	0	181
8	SLU 27	-272	0	3438	0	0	0
8	SLU 28	-4	205	2747	0	0	302
8	SLU 29	261	205	2317	0	0	302
8	SLU 30	170	0	2721	0	0	0
8	SLU 31	331	123	2307	0	0	181
8	SLU 32	-91	205	2955	0	0	302
8	SLU 33	174	205	2525	0	0	302
8	SLU 34	83	0	2929	0	0	0
8	SLU 35	244	123	2514	0	0	181
8	SLU 36	-447	0	3853	0	0	0
8	SLU 37	-286	123	3439	0	0	181
8	SLU 38	-181	0	3423	0	0	0
8	SLU 39	-21	123	3009	0	0	181
8	SLU 40	-353	0	3635	0	0	0
8	SLU 41	-85	205	2944	0	0	302
8	SLU 42	180	205	2514	0	0	302
8	SLU 43	89	0	2918	0	0	0
8	SLU 44	250	123	2504	0	0	181
8	SLU 45	-172	205	3152	0	0	302
8	SLU 46	93	205	2722	0	0	302
8	SLU 47	2	0	3126	0	0	0
8	SLU 48	162	123	2712	0	0	181
8	SLU 49	-528	0	4050	0	0	0
8	SLU 50	-367	123	3636	0	0	181
8	SLU 51	-262	0	3621	0	0	0
8	SLU 52	-102	123	3206	0	0	181
8	SLE RA 1	-263	0	2776	0	0	0
8	SLE RA 2	-85	137	2315	0	0	201
8	SLE RA 3	92	137	2029	0	0	201
8	SLE RA 4	32	0	2298	0	0	0
8	SLE RA 5	139	82	2022	0	0	121
8	SLE RA 6	-143	137	2454	0	0	202
8	SLE RA 7	34	137	2167	0	0	201
8	SLE RA 8	-27	0	2437	0	0	0
8	SLE RA 9	80	82	2160	0	0	121
8	SLE RA 10	-380	0	3053	0	0	0
8	SLE RA 11	-272	82	2777	0	0	121
8	SLE RA 12	-203	0	2766	0	0	0
8	SLE RA 13	-96	82	2490	0	0	121
8	SLE FR 1	-263	0	2776	0	0	0
8	SLE FR 2	-227	27	2684	0	0	40
8	SLE FR 3	-204	0	2680	0	0	0
8	SLE FR 4	-286	0	2831	0	0	0
8	SLE QP 1	-263	0	2776	0	0	0
8	SLD 1	-414	-172	2849	0	0	-299
8	SLD 2	-414	-172	2849	0	0	-299
8	SLD 3	-469	172	2861	0	0	299
8	SLD 4	-469	172	2861	0	0	299

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
8	SLD 5	-225	-572	2780	0	0	-998
8	SLD 6	-225	-572	2780	0	0	-998
8	SLD 7	-408	572	2819	0	0	997
8	SLD 8	-408	572	2819	0	0	997
8	SLD 9	-118	-572	2733	0	0	-998
8	SLD 10	-118	-572	2733	0	0	-998
8	SLD 11	-301	572	2772	0	0	997
8	SLD 12	-301	572	2772	0	0	997
8	SLD 13	-57	-172	2691	0	0	-299
8	SLD 14	-57	-172	2691	0	0	-299
8	SLD 15	-112	172	2703	0	0	299
8	SLD 16	-112	172	2703	0	0	299
8	SLV 1	-651	-441	2964	0	0	-769
8	SLV 2	-651	-441	2964	0	0	-769
8	SLV 3	-792	441	2994	0	0	768
8	SLV 4	-792	441	2994	0	0	768
8	SLV 5	-166	-1469	2786	0	0	-2563
8	SLV 6	-166	-1469	2786	0	0	-2563
8	SLV 7	-635	1469	2887	0	0	2561
8	SLV 8	-635	1469	2887	0	0	2561
8	SLV 9	109	-1469	2665	0	0	-2563
8	SLV 10	109	-1469	2665	0	0	-2563
8	SLV 11	-360	1469	2765	0	0	2561
8	SLV 12	-360	1469	2765	0	0	2561
8	SLV 13	266	-441	2558	0	0	-769
8	SLV 14	266	-441	2558	0	0	-769
8	SLV 15	125	441	2588	0	0	768
8	SLV 16	125	441	2588	0	0	768
8	SLV FO 1	-651	-441	2964	0	0	-769
8	SLV FO 2	-651	-441	2964	0	0	-769
8	SLV FO 3	-792	441	2994	0	0	768
8	SLV FO 4	-792	441	2994	0	0	768
8	SLV FO 5	-166	-1469	2786	0	0	-2563
8	SLV FO 6	-166	-1469	2786	0	0	-2563
8	SLV FO 7	-635	1469	2887	0	0	2561
8	SLV FO 8	-635	1469	2887	0	0	2561
8	SLV FO 9	109	-1469	2665	0	0	-2563
8	SLV FO 10	109	-1469	2665	0	0	-2563
8	SLV FO 11	-360	1469	2765	0	0	2561
8	SLV FO 12	-360	1469	2765	0	0	2561
8	SLV FO 13	266	-441	2558	0	0	-769
8	SLV FO 14	266	-441	2558	0	0	-769
8	SLV FO 15	125	441	2588	0	0	768
8	SLV FO 16	125	441	2588	0	0	768
9	SLU 1	199	0	2491	0	0	0
9	SLU 2	-62	361	1953	0	0	311
9	SLU 3	-105	361	1661	0	0	311
9	SLU 4	127	0	2005	0	0	0
9	SLU 5	-29	216	1683	0	0	187
9	SLU 6	9	361	2114	0	0	311
9	SLU 7	-34	361	1823	0	0	311
9	SLU 8	199	0	2167	0	0	0
9	SLU 9	42	216	1844	0	0	187
9	SLU 10	341	0	2814	0	0	0
9	SLU 11	185	216	2491	0	0	187
9	SLU 12	299	0	2522	0	0	0
9	SLU 13	142	216	2200	0	0	187
9	SLU 14	264	0	2642	0	0	0
9	SLU 15	4	361	2104	0	0	311
9	SLU 16	-39	361	1812	0	0	311
9	SLU 17	193	0	2156	0	0	0
9	SLU 18	37	216	1834	0	0	187
9	SLU 19	75	361	2265	0	0	311
9	SLU 20	32	361	1974	0	0	311
9	SLU 21	264	0	2318	0	0	0
9	SLU 22	108	216	1995	0	0	187
9	SLU 23	407	0	2965	0	0	0
9	SLU 24	251	216	2642	0	0	187
9	SLU 25	364	0	2673	0	0	0
9	SLU 26	208	216	2351	0	0	187
9	SLU 27	258	0	3238	0	0	0
9	SLU 28	-3	361	2700	0	0	311
9	SLU 29	-45	361	2409	0	0	311
9	SLU 30	187	0	2753	0	0	0
9	SLU 31	30	216	2430	0	0	187
9	SLU 32	69	361	2861	0	0	311
9	SLU 33	26	361	2570	0	0	311
9	SLU 34	258	0	2914	0	0	0
9	SLU 35	102	216	2591	0	0	187
9	SLU 36	401	0	3561	0	0	0
9	SLU 37	245	216	3238	0	0	187
9	SLU 38	358	0	3270	0	0	0
9	SLU 39	202	216	2947	0	0	187
9	SLU 40	324	0	3389	0	0	0
9	SLU 41	63	361	2851	0	0	311
9	SLU 42	20	361	2560	0	0	311
9	SLU 43	253	0	2904	0	0	0
9	SLU 44	96	216	2581	0	0	187
9	SLU 45	135	361	3012	0	0	311
9	SLU 46	92	361	2721	0	0	311
9	SLU 47	324	0	3065	0	0	0
9	SLU 48	168	216	2742	0	0	187
9	SLU 49	467	0	3712	0	0	0
9	SLU 50	310	216	3389	0	0	187
9	SLU 51	424	0	3421	0	0	0
9	SLU 52	267	216	3098	0	0	187
9	SLE RA 1	242	0	2591	0	0	0
9	SLE RA 2	69	241	2233	0	0	207
9	SLE RA 3	40	241	2038	0	0	207
9	SLE RA 4	195	0	2268	0	0	0
9	SLE RA 5	91	144	2053	0	0	124
9	SLE RA 6	116	240	2340	0	0	207
9	SLE RA 7	88	241	2146	0	0	207

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
9	SLE RA 8	242	0	2375	0	0	0
9	SLE RA 9	138	144	2160	0	0	124
9	SLE RA 10	338	0	2807	0	0	0
9	SLE RA 11	233	144	2591	0	0	124
9	SLE RA 12	309	0	2612	0	0	0
9	SLE RA 13	205	144	2397	0	0	124
9	SLE FR 1	242	0	2591	0	0	0
9	SLE FR 2	208	48	2519	0	0	41
9	SLE FR 3	233	0	2527	0	0	0
9	SLE FR 4	261	0	2634	0	0	0
9	SLE QP 1	242	0	2591	0	0	0
9	SLD 1	3	-168	2527	0	0	-171
9	SLD 2	3	-168	2527	0	0	-171
9	SLD 3	-100	168	2495	0	0	172
9	SLD 4	-100	168	2495	0	0	172
9	SLD 5	327	-560	2620	0	0	-570
9	SLD 6	327	-560	2620	0	0	-570
9	SLD 7	-17	561	2514	0	0	573
9	SLD 8	-17	561	2514	0	0	573
9	SLD 9	501	-560	2668	0	0	-570
9	SLD 10	501	-560	2668	0	0	-570
9	SLD 11	158	561	2562	0	0	573
9	SLD 12	158	561	2562	0	0	573
9	SLD 13	585	-168	2687	0	0	-171
9	SLD 14	585	-168	2687	0	0	-171
9	SLD 15	482	168	2655	0	0	172
9	SLD 16	482	168	2655	0	0	172
9	SLV 1	-373	-431	2427	0	0	-439
9	SLV 2	-373	-431	2427	0	0	-439
9	SLV 3	-638	432	2345	0	0	441
9	SLV 4	-638	432	2345	0	0	441
9	SLV 5	459	-1438	2666	0	0	-1464
9	SLV 6	459	-1438	2666	0	0	-1464
9	SLV 7	-423	1441	2393	0	0	1471
9	SLV 8	-423	1441	2393	0	0	1471
9	SLV 9	907	-1438	2789	0	0	-1464
9	SLV 10	907	-1438	2789	0	0	-1464
9	SLV 11	26	1440	2516	0	0	1471
9	SLV 12	26	1440	2516	0	0	1471
9	SLV 13	1122	-431	2837	0	0	-439
9	SLV 14	1122	-431	2837	0	0	-439
9	SLV 15	858	432	2755	0	0	441
9	SLV 16	858	432	2755	0	0	441
9	SLV FO 1	-373	-431	2427	0	0	-439
9	SLV FO 2	-373	-431	2427	0	0	-439
9	SLV FO 3	-638	432	2345	0	0	441
9	SLV FO 4	-638	432	2345	0	0	441
9	SLV FO 5	459	-1438	2666	0	0	-1464
9	SLV FO 6	459	-1438	2666	0	0	-1464
9	SLV FO 7	-423	1441	2393	0	0	1471
9	SLV FO 8	-423	1441	2393	0	0	1471
9	SLV FO 9	907	-1438	2789	0	0	-1464
9	SLV FO 10	907	-1438	2789	0	0	-1464
9	SLV FO 11	26	1440	2516	0	0	1471
9	SLV FO 12	26	1440	2516	0	0	1471
9	SLV FO 13	1122	-431	2837	0	0	-439
9	SLV FO 14	1122	-431	2837	0	0	-439
9	SLV FO 15	858	432	2755	0	0	441
9	SLV FO 16	858	432	2755	0	0	441
10	SLU 1	-230	0	2775	0	0	0
10	SLU 2	261	204	1436	0	0	303
10	SLU 3	664	204	622	0	0	303
10	SLU 4	441	0	1418	0	0	0
10	SLU 5	735	122	614	0	0	182
10	SLU 6	109	204	1840	0	0	303
10	SLU 7	512	204	1026	0	0	303
10	SLU 8	289	0	1821	0	0	0
10	SLU 9	584	123	1018	0	0	182
10	SLU 10	-534	0	3583	0	0	0
10	SLU 11	-239	123	2779	0	0	182
10	SLU 12	-131	0	2768	0	0	0
10	SLU 13	163	123	1965	0	0	182
10	SLU 14	-370	0	3158	0	0	0
10	SLU 15	121	204	1819	0	0	303
10	SLU 16	523	204	1004	0	0	303
10	SLU 17	301	0	1800	0	0	0
10	SLU 18	595	123	997	0	0	182
10	SLU 19	-31	204	2223	0	0	303
10	SLU 20	371	204	1408	0	0	303
10	SLU 21	149	0	2204	0	0	0
10	SLU 22	443	122	1401	0	0	182
10	SLU 23	-674	0	3965	0	0	0
10	SLU 24	-379	123	3162	0	0	182
10	SLU 25	-272	0	3151	0	0	0
10	SLU 26	23	123	2347	0	0	182
10	SLU 27	-298	0	3608	0	0	0
10	SLU 28	193	204	2269	0	0	303
10	SLU 29	595	204	1454	0	0	303
10	SLU 30	372	0	2250	0	0	0
10	SLU 31	667	122	1447	0	0	182
10	SLU 32	41	204	2673	0	0	303
10	SLU 33	443	204	1858	0	0	303
10	SLU 34	220	0	2654	0	0	0
10	SLU 35	515	123	1851	0	0	182
10	SLU 36	-602	0	4415	0	0	0
10	SLU 37	-308	123	3612	0	0	182
10	SLU 38	-200	0	3601	0	0	0
10	SLU 39	95	123	2797	0	0	182
10	SLU 40	-439	0	3990	0	0	0
10	SLU 41	52	204	2651	0	0	303

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
10	SLU 42	455	204	1837	0	0	303
10	SLU 43	232	0	2633	0	0	0
10	SLU 44	526	123	1829	0	0	182
10	SLU 45	-100	204	3055	0	0	303
10	SLU 46	303	204	2241	0	0	303
10	SLU 47	80	0	3036	0	0	0
10	SLU 48	374	123	2233	0	0	182
10	SLU 49	-743	0	4798	0	0	0
10	SLU 50	-448	123	3994	0	0	182
10	SLU 51	-340	0	3983	0	0	0
10	SLU 52	-46	123	3180	0	0	182
10	SLE RA 1	-323	0	3030	0	0	0
10	SLE RA 2	4	136	2138	0	0	202
10	SLE RA 3	272	136	1595	0	0	202
10	SLE RA 4	124	0	2125	0	0	0
10	SLE RA 5	320	82	1590	0	0	121
10	SLE RA 6	-97	136	2407	0	0	202
10	SLE RA 7	171	136	1864	0	0	202
10	SLE RA 8	23	0	2394	0	0	0
10	SLE RA 9	219	82	1859	0	0	121
10	SLE RA 10	-526	0	3568	0	0	0
10	SLE RA 11	-329	82	3033	0	0	121
10	SLE RA 12	-258	0	3025	0	0	0
10	SLE RA 13	-61	82	2490	0	0	121
10	SLE FR 1	-323	0	3030	0	0	0
10	SLE FR 2	-258	27	2852	0	0	40
10	SLE FR 3	-234	0	2849	0	0	0
10	SLE FR 4	-364	0	3138	0	0	0
10	SLE QP 1	-323	0	3030	0	0	0
10	SLD 1	-522	-172	3116	0	0	-299
10	SLD 2	-522	-172	3116	0	0	-299
10	SLD 3	-522	172	3116	0	0	299
10	SLD 4	-522	172	3116	0	0	299
10	SLD 5	-383	-572	3056	0	0	-998
10	SLD 6	-383	-572	3056	0	0	-998
10	SLD 7	-383	572	3056	0	0	998
10	SLD 8	-383	572	3056	0	0	998
10	SLD 9	-263	-572	3004	0	0	-998
10	SLD 10	-263	-572	3004	0	0	-998
10	SLD 11	-263	572	3004	0	0	998
10	SLD 12	-263	572	3004	0	0	998
10	SLD 13	-124	-172	2944	0	0	-300
10	SLD 14	-124	-172	2944	0	0	-300
10	SLD 15	-124	172	2944	0	0	300
10	SLD 16	-124	172	2944	0	0	300
10	SLV 1	-834	-441	3250	0	0	-770
10	SLV 2	-834	-441	3250	0	0	-770
10	SLV 3	-834	441	3250	0	0	770
10	SLV 4	-834	441	3250	0	0	770
10	SLV 5	-476	-1470	3096	0	0	-2565
10	SLV 6	-476	-1470	3096	0	0	-2565
10	SLV 7	-476	1470	3096	0	0	2565
10	SLV 8	-476	1470	3096	0	0	2565
10	SLV 9	-170	-1470	2964	0	0	-2565
10	SLV 10	-170	-1470	2964	0	0	-2565
10	SLV 11	-170	1470	2964	0	0	2565
10	SLV 12	-170	1470	2964	0	0	2565
10	SLV 13	188	-441	2810	0	0	-769
10	SLV 14	188	-441	2810	0	0	-769
10	SLV 15	188	441	2810	0	0	769
10	SLV 16	188	441	2810	0	0	769
10	SLV FO 1	-834	-441	3250	0	0	-770
10	SLV FO 2	-834	-441	3250	0	0	-770
10	SLV FO 3	-834	441	3250	0	0	770
10	SLV FO 4	-834	441	3250	0	0	770
10	SLV FO 5	-476	-1470	3096	0	0	-2565
10	SLV FO 6	-476	-1470	3096	0	0	-2565
10	SLV FO 7	-476	1470	3096	0	0	2565
10	SLV FO 8	-476	1470	3096	0	0	2565
10	SLV FO 9	-170	-1470	2964	0	0	-2565
10	SLV FO 10	-170	-1470	2964	0	0	-2565
10	SLV FO 11	-170	1470	2964	0	0	2565
10	SLV FO 12	-170	1470	2964	0	0	2565
10	SLV FO 13	188	-441	2810	0	0	-769
10	SLV FO 14	188	-441	2810	0	0	-769
10	SLV FO 15	188	441	2810	0	0	769
10	SLV FO 16	188	441	2810	0	0	769
11	SLU 1	251	0	2609	0	0	0
11	SLU 2	-347	255	1510	0	0	182
11	SLU 3	-595	255	879	0	0	182
11	SLU 4	-162	0	1558	0	0	0
11	SLU 5	-521	153	898	0	0	109
11	SLU 6	-163	255	1846	0	0	182
11	SLU 7	-411	255	1215	0	0	182
11	SLU 8	22	0	1894	0	0	0
11	SLU 9	-337	153	1234	0	0	109
11	SLU 10	619	0	3281	0	0	0
11	SLU 11	260	153	2621	0	0	109
11	SLU 12	371	0	2650	0	0	0
11	SLU 13	12	153	1990	0	0	109
11	SLU 14	422	0	2924	0	0	0
11	SLU 15	-176	255	1824	0	0	182
11	SLU 16	-424	255	1193	0	0	182
11	SLU 17	9	0	1872	0	0	0
11	SLU 18	-350	153	1212	0	0	109
11	SLU 19	8	255	2160	0	0	182
11	SLU 20	-240	255	1529	0	0	182
11	SLU 21	192	0	2208	0	0	0
11	SLU 22	-166	153	1548	0	0	109
11	SLU 23	789	0	3595	0	0	0
11	SLU 24	431	153	2935	0	0	109
11	SLU 25	542	0	2964	0	0	0
11	SLU 26	183	153	2304	0	0	109

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
11	SLU 27	326	0	3392	0	0	0
11	SLU 28	-272	255	2293	0	0	182
11	SLU 29	-520	255	1662	0	0	182
11	SLU 30	-87	0	2341	0	0	0
11	SLU 31	-446	153	1681	0	0	109
11	SLU 32	-88	255	2629	0	0	182
11	SLU 33	-336	255	1998	0	0	182
11	SLU 34	97	0	2676	0	0	0
11	SLU 35	-262	153	2017	0	0	109
11	SLU 36	694	0	4064	0	0	0
11	SLU 37	335	153	3404	0	0	109
11	SLU 38	446	0	3433	0	0	0
11	SLU 39	87	153	2773	0	0	109
11	SLU 40	497	0	3706	0	0	0
11	SLU 41	-101	255	2607	0	0	182
11	SLU 42	-349	255	1976	0	0	182
11	SLU 43	84	0	2655	0	0	0
11	SLU 44	-275	153	1995	0	0	109
11	SLU 45	83	255	2943	0	0	182
11	SLU 46	-165	255	2312	0	0	182
11	SLU 47	268	0	2991	0	0	0
11	SLU 48	-91	153	2331	0	0	109
11	SLU 49	865	0	4378	0	0	0
11	SLU 50	506	153	3718	0	0	109
11	SLU 51	617	0	3747	0	0	0
11	SLU 52	258	153	3087	0	0	109
11	SLE RA 1	365	0	2819	0	0	0
11	SLE RA 2	-34	170	2086	0	0	121
11	SLE RA 3	-199	170	1665	0	0	121
11	SLE RA 4	89	0	2118	0	0	0
11	SLE RA 5	-150	102	1678	0	0	73
11	SLE RA 6	89	170	2310	0	0	121
11	SLE RA 7	-77	170	1889	0	0	121
11	SLE RA 8	212	0	2342	0	0	0
11	SLE RA 9	-27	102	1902	0	0	73
11	SLE RA 10	610	0	3266	0	0	0
11	SLE RA 11	371	102	2827	0	0	73
11	SLE RA 12	445	0	2846	0	0	0
11	SLE RA 13	206	102	2406	0	0	73
11	SLE FR 1	365	0	2819	0	0	0
11	SLE FR 2	285	34	2672	0	0	24
11	SLE FR 3	310	0	2679	0	0	0
11	SLE FR 4	414	0	2908	0	0	0
11	SLE QP 1	365	0	2819	0	0	0
11	SLD 1	49	-168	2735	0	0	-171
11	SLD 2	49	-168	2735	0	0	-171
11	SLD 3	49	168	2735	0	0	171
11	SLD 4	49	168	2735	0	0	171
11	SLD 5	270	-560	2794	0	0	-571
11	SLD 6	270	-560	2794	0	0	-571
11	SLD 7	270	560	2794	0	0	571
11	SLD 8	270	560	2794	0	0	571
11	SLD 9	460	-560	2844	0	0	-571
11	SLD 10	460	-560	2844	0	0	-571
11	SLD 11	460	560	2844	0	0	571
11	SLD 12	460	560	2844	0	0	571
11	SLD 13	681	-168	2903	0	0	-171
11	SLD 14	681	-168	2903	0	0	-171
11	SLD 15	681	168	2903	0	0	171
11	SLD 16	681	168	2903	0	0	171
11	SLV 1	-447	-432	2603	0	0	-440
11	SLV 2	-447	-432	2603	0	0	-440
11	SLV 3	-447	432	2603	0	0	440
11	SLV 4	-447	432	2603	0	0	440
11	SLV 5	121	-1439	2754	0	0	-1467
11	SLV 6	121	-1439	2754	0	0	-1467
11	SLV 7	121	1439	2754	0	0	1467
11	SLV 8	121	1439	2754	0	0	1467
11	SLV 9	608	-1439	2884	0	0	-1467
11	SLV 10	608	-1439	2884	0	0	-1467
11	SLV 11	608	1439	2884	0	0	1467
11	SLV 12	608	1439	2884	0	0	1467
11	SLV 13	1177	-432	3035	0	0	-440
11	SLV 14	1177	-432	3035	0	0	-440
11	SLV 15	1177	432	3035	0	0	440
11	SLV 16	1177	432	3035	0	0	440
11	SLV FO 1	-447	-432	2603	0	0	-440
11	SLV FO 2	-447	-432	2603	0	0	-440
11	SLV FO 3	-447	432	2603	0	0	440
11	SLV FO 4	-447	432	2603	0	0	440
11	SLV FO 5	121	-1439	2754	0	0	-1467
11	SLV FO 6	121	-1439	2754	0	0	-1467
11	SLV FO 7	121	1439	2754	0	0	1467
11	SLV FO 8	121	1439	2754	0	0	1467
11	SLV FO 9	608	-1439	2884	0	0	-1467
11	SLV FO 10	608	-1439	2884	0	0	-1467
11	SLV FO 11	608	1439	2884	0	0	1467
11	SLV FO 12	608	1439	2884	0	0	1467
11	SLV FO 13	1177	-432	3035	0	0	-440
11	SLV FO 14	1177	-432	3035	0	0	-440
11	SLV FO 15	1177	432	3035	0	0	440
11	SLV FO 16	1177	432	3035	0	0	440
12	SLU 1	-209	0	2644	0	0	0
12	SLU 2	90	204	1956	0	0	303
12	SLU 3	355	204	1526	0	0	303
12	SLU 4	233	0	1928	0	0	0
12	SLU 5	412	122	1515	0	0	182
12	SLU 6	3	204	2164	0	0	303
12	SLU 7	268	204	1734	0	0	303
12	SLU 8	146	0	2136	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
12	SLU 9	325	122	1723	0	0	182
12	SLU 10	-384	0	3060	0	0	0
12	SLU 11	-204	123	2647	0	0	182
12	SLU 12	-119	0	2630	0	0	0
12	SLU 13	61	122	2217	0	0	182
12	SLU 14	-290	0	2841	0	0	0
12	SLU 15	9	204	2153	0	0	303
12	SLU 16	274	204	1723	0	0	303
12	SLU 17	152	0	2125	0	0	0
12	SLU 18	331	122	1712	0	0	182
12	SLU 19	-78	204	2361	0	0	303
12	SLU 20	187	204	1931	0	0	303
12	SLU 21	65	0	2333	0	0	0
12	SLU 22	244	122	1920	0	0	182
12	SLU 23	-465	0	3257	0	0	0
12	SLU 24	-285	123	2844	0	0	182
12	SLU 25	-200	0	2827	0	0	0
12	SLU 26	-20	122	2414	0	0	182
12	SLU 27	-272	0	3438	0	0	0
12	SLU 28	27	204	2749	0	0	303
12	SLU 29	293	204	2319	0	0	303
12	SLU 30	170	0	2721	0	0	0
12	SLU 31	350	122	2308	0	0	182
12	SLU 32	-60	204	2957	0	0	303
12	SLU 33	205	204	2527	0	0	303
12	SLU 34	83	0	2929	0	0	0
12	SLU 35	262	122	2516	0	0	182
12	SLU 36	-447	0	3853	0	0	0
12	SLU 37	-267	123	3440	0	0	182
12	SLU 38	-181	0	3423	0	0	0
12	SLU 39	-2	122	3010	0	0	182
12	SLU 40	-353	0	3635	0	0	0
12	SLU 41	-54	204	2946	0	0	303
12	SLU 42	212	204	2516	0	0	303
12	SLU 43	89	0	2918	0	0	0
12	SLU 44	269	122	2505	0	0	182
12	SLU 45	-141	204	3154	0	0	303
12	SLU 46	124	204	2724	0	0	303
12	SLU 47	2	0	3126	0	0	0
12	SLU 48	181	122	2713	0	0	182
12	SLU 49	-528	0	4050	0	0	0
12	SLU 50	-348	123	3637	0	0	182
12	SLU 51	-262	0	3621	0	0	0
12	SLU 52	-83	122	3207	0	0	182
12	SLE RA 1	-263	0	2776	0	0	0
12	SLE RA 2	-64	136	2317	0	0	202
12	SLE RA 3	113	136	2030	0	0	202
12	SLE RA 4	32	0	2298	0	0	0
12	SLE RA 5	151	82	2023	0	0	121
12	SLE RA 6	-122	136	2455	0	0	202
12	SLE RA 7	55	136	2169	0	0	202
12	SLE RA 8	-27	0	2437	0	0	0
12	SLE RA 9	93	82	2161	0	0	121
12	SLE RA 10	-380	0	3053	0	0	0
12	SLE RA 11	-260	82	2778	0	0	121
12	SLE RA 12	-203	0	2766	0	0	0
12	SLE RA 13	-83	82	2491	0	0	121
12	SLE FR 1	-263	0	2776	0	0	0
12	SLE FR 2	-223	27	2684	0	0	40
12	SLE FR 3	-204	0	2680	0	0	0
12	SLE FR 4	-286	0	2831	0	0	0
12	SLE QP 1	-263	0	2776	0	0	0
12	SLD 1	-469	-172	2861	0	0	-299
12	SLD 2	-469	-172	2861	0	0	-299
12	SLD 3	-414	172	2849	0	0	299
12	SLD 4	-414	172	2849	0	0	299
12	SLD 5	-408	-572	2819	0	0	-997
12	SLD 6	-408	-572	2819	0	0	-997
12	SLD 7	-225	572	2780	0	0	998
12	SLD 8	-225	572	2780	0	0	998
12	SLD 9	-301	-572	2772	0	0	-997
12	SLD 10	-301	-572	2772	0	0	-997
12	SLD 11	-118	572	2733	0	0	998
12	SLD 12	-118	572	2733	0	0	998
12	SLD 13	-112	-172	2703	0	0	-299
12	SLD 14	-112	-172	2703	0	0	-299
12	SLD 15	-57	172	2691	0	0	299
12	SLD 16	-57	172	2691	0	0	299
12	SLV 1	-792	-441	2994	0	0	-768
12	SLV 2	-792	-441	2994	0	0	-768
12	SLV 3	-651	441	2964	0	0	769
12	SLV 4	-651	441	2964	0	0	769
12	SLV 5	-635	-1469	2887	0	0	-2561
12	SLV 6	-635	-1469	2887	0	0	-2561
12	SLV 7	-166	1469	2786	0	0	2563
12	SLV 8	-166	1469	2786	0	0	2563
12	SLV 9	-360	-1469	2765	0	0	-2561
12	SLV 10	-360	-1469	2765	0	0	-2561
12	SLV 11	109	1469	2665	0	0	2563
12	SLV 12	109	1469	2665	0	0	2563
12	SLV 13	125	-441	2588	0	0	-768
12	SLV 14	125	-441	2588	0	0	-768
12	SLV 15	266	441	2558	0	0	769
12	SLV 16	266	441	2558	0	0	769
12	SLV FO 1	-792	-441	2994	0	0	-768
12	SLV FO 2	-792	-441	2994	0	0	-768
12	SLV FO 3	-651	441	2964	0	0	769
12	SLV FO 4	-651	441	2964	0	0	769
12	SLV FO 5	-635	-1469	2887	0	0	-2561
12	SLV FO 6	-635	-1469	2887	0	0	-2561
12	SLV FO 7	-166	1469	2786	0	0	2563
12	SLV FO 8	-166	1469	2786	0	0	2563
12	SLV FO 9	-360	-1469	2765	0	0	-2561

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
12	SLV FO 10	-360	-1469	2765	0	0	-2561
12	SLV FO 11	109	1469	2665	0	0	2563
12	SLV FO 12	109	1469	2665	0	0	2563
12	SLV FO 13	125	-441	2588	0	0	-768
12	SLV FO 14	125	-441	2588	0	0	-768
12	SLV FO 15	266	441	2558	0	0	769
12	SLV FO 16	266	441	2558	0	0	769
13	SLU 1	199	0	2491	0	0	0
13	SLU 2	-1	254	1972	0	0	181
13	SLU 3	-44	254	1681	0	0	181
13	SLU 4	127	0	2005	0	0	0
13	SLU 5	7	153	1694	0	0	109
13	SLU 6	70	254	2133	0	0	181
13	SLU 7	27	254	1842	0	0	181
13	SLU 8	199	0	2167	0	0	0
13	SLU 9	79	153	1856	0	0	109
13	SLU 10	341	0	2814	0	0	0
13	SLU 11	221	153	2502	0	0	109
13	SLU 12	299	0	2522	0	0	0
13	SLU 13	179	153	2211	0	0	109
13	SLU 14	264	0	2642	0	0	0
13	SLU 15	65	254	2123	0	0	181
13	SLU 16	22	254	1831	0	0	181
13	SLU 17	193	0	2156	0	0	0
13	SLU 18	73	153	1845	0	0	109
13	SLU 19	136	254	2284	0	0	181
13	SLU 20	93	254	1993	0	0	181
13	SLU 21	264	0	2318	0	0	0
13	SLU 22	145	153	2006	0	0	109
13	SLU 23	407	0	2965	0	0	0
13	SLU 24	287	153	2653	0	0	109
13	SLU 25	364	0	2673	0	0	0
13	SLU 26	244	153	2362	0	0	109
13	SLU 27	258	0	3238	0	0	0
13	SLU 28	58	254	2719	0	0	181
13	SLU 29	16	254	2428	0	0	181
13	SLU 30	187	0	2753	0	0	0
13	SLU 31	67	153	2441	0	0	109
13	SLU 32	130	254	2880	0	0	181
13	SLU 33	87	254	2589	0	0	181
13	SLU 34	258	0	2914	0	0	0
13	SLU 35	138	153	2603	0	0	109
13	SLU 36	401	0	3561	0	0	0
13	SLU 37	281	153	3249	0	0	109
13	SLU 38	358	0	3270	0	0	0
13	SLU 39	238	153	2958	0	0	109
13	SLU 40	324	0	3389	0	0	0
13	SLU 41	124	254	2870	0	0	181
13	SLU 42	81	254	2579	0	0	181
13	SLU 43	253	0	2904	0	0	0
13	SLU 44	133	153	2592	0	0	109
13	SLU 45	195	254	3031	0	0	181
13	SLU 46	153	254	2740	0	0	181
13	SLU 47	324	0	3065	0	0	0
13	SLU 48	204	153	2754	0	0	109
13	SLU 49	467	0	3712	0	0	0
13	SLU 50	347	153	3400	0	0	109
13	SLU 51	424	0	3421	0	0	0
13	SLU 52	304	153	3109	0	0	109
13	SLE RA 1	242	0	2591	0	0	0
13	SLE RA 2	109	170	2245	0	0	121
13	SLE RA 3	81	170	2051	0	0	121
13	SLE RA 4	195	0	2268	0	0	0
13	SLE RA 5	115	102	2060	0	0	72
13	SLE RA 6	157	170	2353	0	0	121
13	SLE RA 7	128	170	2159	0	0	121
13	SLE RA 8	242	0	2375	0	0	0
13	SLE RA 9	163	102	2168	0	0	72
13	SLE RA 10	338	0	2807	0	0	0
13	SLE RA 11	258	102	2599	0	0	73
13	SLE RA 12	309	0	2612	0	0	0
13	SLE RA 13	229	102	2405	0	0	73
13	SLE FR 1	242	0	2591	0	0	0
13	SLE FR 2	216	34	2522	0	0	24
13	SLE FR 3	233	0	2527	0	0	0
13	SLE FR 4	261	0	2634	0	0	0
13	SLE QP 1	242	0	2591	0	0	0
13	SLD 1	-100	-168	2495	0	0	-172
13	SLD 2	-100	-168	2495	0	0	-172
13	SLD 3	3	168	2527	0	0	171
13	SLD 4	3	168	2527	0	0	171
13	SLD 5	-17	-561	2514	0	0	-573
13	SLD 6	-17	-561	2514	0	0	-573
13	SLD 7	327	560	2620	0	0	570
13	SLD 8	327	560	2620	0	0	570
13	SLD 9	158	-561	2562	0	0	-573
13	SLD 10	158	-561	2562	0	0	-573
13	SLD 11	501	560	2668	0	0	570
13	SLD 12	501	560	2668	0	0	570
13	SLD 13	482	-168	2655	0	0	-172
13	SLD 14	482	-168	2655	0	0	-172
13	SLD 15	585	168	2687	0	0	171
13	SLD 16	585	168	2687	0	0	171
13	SLV 1	-638	-432	2345	0	0	-441
13	SLV 2	-638	-432	2345	0	0	-441
13	SLV 3	-373	431	2427	0	0	439
13	SLV 4	-373	431	2427	0	0	439
13	SLV 5	-423	-1441	2393	0	0	-1471
13	SLV 6	-423	-1441	2393	0	0	-1471
13	SLV 7	459	1438	2666	0	0	1464

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
13	SLV 8	459	1438	2666	0	0	1464
13	SLV 9	26	-1440	2516	0	0	-1471
13	SLV 10	26	-1440	2516	0	0	-1471
13	SLV 11	907	1438	2789	0	0	1464
13	SLV 12	907	1438	2789	0	0	1464
13	SLV 13	858	-432	2755	0	0	-441
13	SLV 14	858	-432	2755	0	0	-441
13	SLV 15	1122	431	2837	0	0	439
13	SLV 16	1122	431	2837	0	0	439
13	SLV FO 1	-638	-432	2345	0	0	-441
13	SLV FO 2	-638	-432	2345	0	0	-441
13	SLV FO 3	-373	431	2427	0	0	439
13	SLV FO 4	-373	431	2427	0	0	439
13	SLV FO 5	-423	-1441	2393	0	0	-1471
13	SLV FO 6	-423	-1441	2393	0	0	-1471
13	SLV FO 7	459	1438	2666	0	0	1464
13	SLV FO 8	459	1438	2666	0	0	1464
13	SLV FO 9	26	-1440	2516	0	0	-1471
13	SLV FO 10	26	-1440	2516	0	0	-1471
13	SLV FO 11	907	1438	2789	0	0	1464
13	SLV FO 12	907	1438	2789	0	0	1464
13	SLV FO 13	858	-432	2755	0	0	-441
13	SLV FO 14	858	-432	2755	0	0	-441
13	SLV FO 15	1122	431	2837	0	0	439
13	SLV FO 16	1122	431	2837	0	0	439
14	SLU 1	-47	0	2661	0	0	0
14	SLU 2	13	97	1964	0	0	335
14	SLU 3	72	97	1529	0	0	334
14	SLU 4	52	0	1937	0	0	0
14	SLU 5	88	58	1519	0	0	201
14	SLU 6	-6	97	2173	0	0	335
14	SLU 7	53	97	1739	0	0	334
14	SLU 8	32	0	2147	0	0	0
14	SLU 9	68	58	1729	0	0	201
14	SLU 10	-86	0	3081	0	0	0
14	SLU 11	-50	58	2662	0	0	201
14	SLU 12	-26	0	2647	0	0	0
14	SLU 13	9	58	2228	0	0	201
14	SLU 14	-65	0	2860	0	0	0
14	SLU 15	-5	97	2162	0	0	335
14	SLU 16	54	97	1728	0	0	334
14	SLU 17	34	0	2136	0	0	0
14	SLU 18	70	58	1718	0	0	201
14	SLU 19	-24	97	2372	0	0	335
14	SLU 20	35	97	1938	0	0	334
14	SLU 21	14	0	2346	0	0	0
14	SLU 22	50	58	1928	0	0	201
14	SLU 23	-104	0	3280	0	0	0
14	SLU 24	-68	58	2861	0	0	201
14	SLU 25	-45	0	2846	0	0	0
14	SLU 26	-9	58	2427	0	0	201
14	SLU 27	-61	0	3459	0	0	0
14	SLU 28	-1	97	2762	0	0	335
14	SLU 29	58	97	2328	0	0	334
14	SLU 30	38	0	2736	0	0	0
14	SLU 31	74	58	2317	0	0	201
14	SLU 32	-20	97	2972	0	0	335
14	SLU 33	39	97	2538	0	0	334
14	SLU 34	18	0	2946	0	0	0
14	SLU 35	54	58	2527	0	0	201
14	SLU 36	-100	0	3879	0	0	0
14	SLU 37	-64	58	3461	0	0	201
14	SLU 38	-40	0	3445	0	0	0
14	SLU 39	-5	58	3026	0	0	201
14	SLU 40	-79	0	3658	0	0	0
14	SLU 41	-19	97	2961	0	0	335
14	SLU 42	40	97	2527	0	0	334
14	SLU 43	20	0	2935	0	0	0
14	SLU 44	56	58	2516	0	0	201
14	SLU 45	-38	97	3171	0	0	335
14	SLU 46	21	97	2737	0	0	334
14	SLU 47	0	0	3145	0	0	0
14	SLU 48	36	58	2726	0	0	201
14	SLU 49	-118	0	4078	0	0	0
14	SLU 50	-82	58	3659	0	0	201
14	SLU 51	-59	0	3644	0	0	0
14	SLU 52	-23	58	3225	0	0	201
14	SLE RA 1	-59	0	2794	0	0	0
14	SLE RA 2	-19	65	2329	0	0	223
14	SLE RA 3	21	65	2039	0	0	223
14	SLE RA 4	7	0	2311	0	0	0
14	SLE RA 5	31	39	2032	0	0	134
14	SLE RA 6	-32	65	2469	0	0	223
14	SLE RA 7	8	65	2179	0	0	223
14	SLE RA 8	-6	0	2451	0	0	0
14	SLE RA 9	18	39	2172	0	0	134
14	SLE RA 10	-85	0	3073	0	0	0
14	SLE RA 11	-61	39	2794	0	0	134
14	SLE RA 12	-45	0	2784	0	0	0
14	SLE RA 13	-21	39	2505	0	0	134
14	SLE FR 1	-59	0	2794	0	0	0
14	SLE FR 2	-51	13	2701	0	0	45
14	SLE FR 3	-46	0	2697	0	0	0
14	SLE FR 4	-64	0	2850	0	0	0
14	SLE QP 1	-59	0	2794	0	0	0
14	SLD 1	-92	-81	2867	0	0	-332
14	SLD 2	-92	-81	2867	0	0	-332
14	SLD 3	-105	81	2879	0	0	331
14	SLD 4	-105	81	2879	0	0	331
14	SLD 5	-50	-271	2798	0	0	-1106
14	SLD 6	-50	-271	2798	0	0	-1106
14	SLD 7	-91	271	2837	0	0	1104
14	SLD 8	-91	271	2837	0	0	1104

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
14	SLD 9	-26	-271	2750	0	0	-1106
14	SLD 10	-26	-271	2750	0	0	-1106
14	SLD 11	-67	271	2789	0	0	1104
14	SLD 12	-67	271	2789	0	0	1104
14	SLD 13	-13	-81	2708	0	0	-332
14	SLD 14	-13	-81	2708	0	0	-332
14	SLD 15	-25	81	2720	0	0	331
14	SLD 16	-25	81	2720	0	0	331
14	SLV 1	-145	-209	2983	0	0	-852
14	SLV 2	-145	-209	2983	0	0	-852
14	SLV 3	-177	209	3014	0	0	851
14	SLV 4	-177	209	3014	0	0	851
14	SLV 5	-37	-697	2804	0	0	-2840
14	SLV 6	-37	-697	2804	0	0	-2840
14	SLV 7	-142	697	2906	0	0	2837
14	SLV 8	-142	697	2906	0	0	2837
14	SLV 9	24	-697	2681	0	0	-2840
14	SLV 10	24	-697	2681	0	0	-2840
14	SLV 11	-80	697	2783	0	0	2837
14	SLV 12	-80	697	2783	0	0	2837
14	SLV 13	59	-209	2574	0	0	-852
14	SLV 14	59	-209	2574	0	0	-852
14	SLV 15	28	209	2604	0	0	851
14	SLV 16	28	209	2604	0	0	851
14	SLV FO 1	-145	-209	2983	0	0	-852
14	SLV FO 2	-145	-209	2983	0	0	-852
14	SLV FO 3	-177	209	3014	0	0	851
14	SLV FO 4	-177	209	3014	0	0	851
14	SLV FO 5	-37	-697	2804	0	0	-2840
14	SLV FO 6	-37	-697	2804	0	0	-2840
14	SLV FO 7	-142	697	2906	0	0	2837
14	SLV FO 8	-142	697	2906	0	0	2837
14	SLV FO 9	24	-697	2681	0	0	-2840
14	SLV FO 10	24	-697	2681	0	0	-2840
14	SLV FO 11	-80	697	2783	0	0	2837
14	SLV FO 12	-80	697	2783	0	0	2837
14	SLV FO 13	59	-209	2574	0	0	-852
14	SLV FO 14	59	-209	2574	0	0	-852
14	SLV FO 15	28	209	2604	0	0	851
14	SLV FO 16	28	209	2604	0	0	851
15	SLU 1	44	0	2506	0	0	0
15	SLU 2	-14	139	1963	0	0	345
15	SLU 3	-23	139	1669	0	0	345
15	SLU 4	28	0	2016	0	0	0
15	SLU 5	-7	83	1690	0	0	207
15	SLU 6	2	139	2126	0	0	345
15	SLU 7	-7	139	1832	0	0	345
15	SLU 8	44	0	2179	0	0	0
15	SLU 9	9	83	1853	0	0	207
15	SLU 10	76	0	2832	0	0	0
15	SLU 11	41	83	2506	0	0	207
15	SLU 12	67	0	2538	0	0	0
15	SLU 13	32	83	2212	0	0	207
15	SLU 14	59	0	2658	0	0	0
15	SLU 15	1	139	2115	0	0	345
15	SLU 16	-9	139	1821	0	0	345
15	SLU 17	43	0	2168	0	0	0
15	SLU 18	8	83	1842	0	0	207
15	SLU 19	17	139	2278	0	0	345
15	SLU 20	7	139	1984	0	0	345
15	SLU 21	59	0	2331	0	0	0
15	SLU 22	24	83	2005	0	0	207
15	SLU 23	91	0	2984	0	0	0
15	SLU 24	56	83	2658	0	0	207
15	SLU 25	81	0	2690	0	0	0
15	SLU 26	46	83	2364	0	0	207
15	SLU 27	58	0	3257	0	0	0
15	SLU 28	-1	139	2714	0	0	345
15	SLU 29	-10	139	2420	0	0	345
15	SLU 30	42	0	2768	0	0	0
15	SLU 31	7	83	2442	0	0	207
15	SLU 32	15	139	2877	0	0	345
15	SLU 33	6	139	2583	0	0	345
15	SLU 34	58	0	2931	0	0	0
15	SLU 35	23	83	2605	0	0	207
15	SLU 36	89	0	3583	0	0	0
15	SLU 37	55	83	3258	0	0	207
15	SLU 38	80	0	3289	0	0	0
15	SLU 39	45	83	2964	0	0	207
15	SLU 40	72	0	3410	0	0	0
15	SLU 41	14	139	2867	0	0	345
15	SLU 42	5	139	2573	0	0	345
15	SLU 43	56	0	2920	0	0	0
15	SLU 44	21	83	2594	0	0	207
15	SLU 45	30	139	3030	0	0	345
15	SLU 46	20	139	2736	0	0	345
15	SLU 47	72	0	3083	0	0	0
15	SLU 48	37	83	2757	0	0	207
15	SLU 49	104	0	3736	0	0	0
15	SLU 50	69	83	3410	0	0	207
15	SLU 51	95	0	3442	0	0	0
15	SLU 52	60	83	3116	0	0	207
15	SLE RA 1	54	0	2607	0	0	0
15	SLE RA 2	15	92	2245	0	0	230
15	SLE RA 3	9	93	2049	0	0	230
15	SLE RA 4	43	0	2281	0	0	0
15	SLE RA 5	20	55	2063	0	0	138
15	SLE RA 6	26	92	2354	0	0	230
15	SLE RA 7	20	92	2158	0	0	230
15	SLE RA 8	54	0	2389	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
15	SLE RA 9	31	56	2172	0	0	138
15	SLE RA 10	75	0	2825	0	0	0
15	SLE RA 11	52	55	2607	0	0	138
15	SLE RA 12	69	0	2629	0	0	0
15	SLE RA 13	46	55	2411	0	0	138
15	SLE FR 1	54	0	2607	0	0	0
15	SLE FR 2	46	18	2535	0	0	46
15	SLE FR 3	52	0	2542	0	0	0
15	SLE FR 4	58	0	2651	0	0	0
15	SLE QP 1	54	0	2607	0	0	0
15	SLD 1	1	-76	2543	0	0	-190
15	SLD 2	1	-76	2543	0	0	-190
15	SLD 3	-22	76	2511	0	0	190
15	SLD 4	-22	76	2511	0	0	190
15	SLD 5	73	-253	2637	0	0	-631
15	SLD 6	73	-253	2637	0	0	-631
15	SLD 7	-4	254	2529	0	0	634
15	SLD 8	-4	254	2529	0	0	634
15	SLD 9	112	-253	2685	0	0	-631
15	SLD 10	112	-253	2685	0	0	-631
15	SLD 11	35	254	2578	0	0	634
15	SLD 12	35	254	2578	0	0	634
15	SLD 13	130	-76	2704	0	0	-189
15	SLD 14	130	-76	2704	0	0	-189
15	SLD 15	107	76	2672	0	0	190
15	SLD 16	107	76	2672	0	0	190
15	SLV 1	-83	-195	2442	0	0	-487
15	SLV 2	-83	-195	2442	0	0	-487
15	SLV 3	-142	196	2359	0	0	489
15	SLV 4	-142	196	2359	0	0	489
15	SLV 5	102	-651	2683	0	0	-1622
15	SLV 6	102	-651	2683	0	0	-1622
15	SLV 7	-94	652	2407	0	0	1630
15	SLV 8	-94	652	2407	0	0	1630
15	SLV 9	202	-651	2807	0	0	-1622
15	SLV 10	202	-651	2807	0	0	-1622
15	SLV 11	6	652	2532	0	0	1630
15	SLV 12	6	652	2532	0	0	1630
15	SLV 13	250	-195	2856	0	0	-486
15	SLV 14	250	-195	2856	0	0	-486
15	SLV 15	191	196	2773	0	0	489
15	SLV 16	191	196	2773	0	0	489
15	SLV FO 1	-83	-195	2442	0	0	-487
15	SLV FO 2	-83	-195	2442	0	0	-487
15	SLV FO 3	-142	196	2359	0	0	489
15	SLV FO 4	-142	196	2359	0	0	489
15	SLV FO 5	102	-651	2683	0	0	-1622
15	SLV FO 6	102	-651	2683	0	0	-1622
15	SLV FO 7	-94	652	2407	0	0	1630
15	SLV FO 8	-94	652	2407	0	0	1630
15	SLV FO 9	202	-651	2807	0	0	-1622
15	SLV FO 10	202	-651	2807	0	0	-1622
15	SLV FO 11	6	652	2532	0	0	1630
15	SLV FO 12	6	652	2532	0	0	1630
15	SLV FO 13	250	-195	2856	0	0	-486
15	SLV FO 14	250	-195	2856	0	0	-486
15	SLV FO 15	191	196	2773	0	0	489
15	SLV FO 16	191	196	2773	0	0	489
16	SLU 1	-51	0	2793	0	0	0
16	SLU 2	58	97	1441	0	0	336
16	SLU 3	148	97	619	0	0	336
16	SLU 4	98	0	1423	0	0	0
16	SLU 5	164	58	612	0	0	201
16	SLU 6	24	97	1849	0	0	336
16	SLU 7	114	97	1027	0	0	336
16	SLU 8	64	0	1830	0	0	0
16	SLU 9	130	58	1019	0	0	201
16	SLU 10	-119	0	3608	0	0	0
16	SLU 11	-53	58	2797	0	0	202
16	SLU 12	-29	0	2786	0	0	0
16	SLU 13	36	58	1975	0	0	201
16	SLU 14	-83	0	3179	0	0	0
16	SLU 15	27	97	1827	0	0	336
16	SLU 16	117	97	1005	0	0	336
16	SLU 17	67	0	1809	0	0	0
16	SLU 18	133	58	998	0	0	201
16	SLU 19	-7	97	2235	0	0	336
16	SLU 20	83	97	1413	0	0	336
16	SLU 21	33	0	2216	0	0	0
16	SLU 22	99	58	1405	0	0	201
16	SLU 23	-150	0	3994	0	0	0
16	SLU 24	-85	58	3183	0	0	202
16	SLU 25	-61	0	3172	0	0	0
16	SLU 26	5	58	2361	0	0	201
16	SLU 27	-67	0	3631	0	0	0
16	SLU 28	43	97	2279	0	0	336
16	SLU 29	133	97	1457	0	0	336
16	SLU 30	83	0	2260	0	0	0
16	SLU 31	149	58	1449	0	0	201
16	SLU 32	9	97	2687	0	0	336
16	SLU 33	99	97	1864	0	0	336
16	SLU 34	49	0	2668	0	0	0
16	SLU 35	115	58	1857	0	0	201
16	SLU 36	-134	0	4446	0	0	0
16	SLU 37	-69	58	3635	0	0	202
16	SLU 38	-45	0	3624	0	0	0
16	SLU 39	21	58	2813	0	0	201
16	SLU 40	-98	0	4017	0	0	0
16	SLU 41	12	97	2665	0	0	336
16	SLU 42	101	97	1843	0	0	336
16	SLU 43	52	0	2647	0	0	0
16	SLU 44	117	58	1836	0	0	201
16	SLU 45	-22	97	3073	0	0	336

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
16	SLU 46	67	97	2251	0	0	336
16	SLU 47	18	0	3054	0	0	0
16	SLU 48	83	58	2243	0	0	201
16	SLU 49	-166	0	4832	0	0	0
16	SLU 50	-100	58	4021	0	0	202
16	SLU 51	-76	0	4010	0	0	0
16	SLU 52	-10	58	3199	0	0	201
16	SLE RA 1	-72	0	3050	0	0	0
16	SLE RA 2	1	65	2149	0	0	224
16	SLE RA 3	61	64	1601	0	0	224
16	SLE RA 4	28	0	2137	0	0	0
16	SLE RA 5	71	39	1596	0	0	134
16	SLE RA 6	-22	65	2421	0	0	224
16	SLE RA 7	38	64	1873	0	0	224
16	SLE RA 8	5	0	2408	0	0	0
16	SLE RA 9	49	39	1868	0	0	134
16	SLE RA 10	-117	0	3594	0	0	0
16	SLE RA 11	-73	39	3053	0	0	134
16	SLE RA 12	-57	0	3046	0	0	0
16	SLE RA 13	-14	39	2505	0	0	134
16	SLE FR 1	-72	0	3050	0	0	0
16	SLE FR 2	-57	13	2870	0	0	45
16	SLE FR 3	-52	0	2868	0	0	0
16	SLE FR 4	-81	0	3159	0	0	0
16	SLE QP 1	-72	0	3050	0	0	0
16	SLD 1	-116	-81	3137	0	0	-332
16	SLD 2	-116	-81	3137	0	0	-332
16	SLD 3	-116	81	3137	0	0	332
16	SLD 4	-116	81	3137	0	0	332
16	SLD 5	-85	-271	3076	0	0	-1106
16	SLD 6	-85	-271	3076	0	0	-1106
16	SLD 7	-85	271	3076	0	0	1106
16	SLD 8	-85	271	3076	0	0	1106
16	SLD 9	-59	-271	3024	0	0	-1106
16	SLD 10	-59	-271	3024	0	0	-1106
16	SLD 11	-59	271	3024	0	0	1106
16	SLD 12	-59	271	3024	0	0	1106
16	SLD 13	-28	-81	2964	0	0	-332
16	SLD 14	-28	-81	2964	0	0	-332
16	SLD 15	-28	81	2964	0	0	332
16	SLD 16	-28	81	2964	0	0	332
16	SLV 1	-186	-209	3273	0	0	-853
16	SLV 2	-186	-209	3273	0	0	-853
16	SLV 3	-186	209	3273	0	0	853
16	SLV 4	-186	209	3273	0	0	853
16	SLV 5	-106	-697	3117	0	0	-2841
16	SLV 6	-106	-697	3117	0	0	-2841
16	SLV 7	-106	697	3117	0	0	2841
16	SLV 8	-106	697	3117	0	0	2841
16	SLV 9	-38	-697	2984	0	0	-2841
16	SLV 10	-38	-697	2984	0	0	-2841
16	SLV 11	-38	697	2984	0	0	2841
16	SLV 12	-38	697	2984	0	0	2841
16	SLV 13	42	-209	2828	0	0	-852
16	SLV 14	42	-209	2828	0	0	-852
16	SLV 15	42	209	2828	0	0	852
16	SLV 16	42	209	2828	0	0	852
16	SLV FO 1	-186	-209	3273	0	0	-853
16	SLV FO 2	-186	-209	3273	0	0	-853
16	SLV FO 3	-186	209	3273	0	0	853
16	SLV FO 4	-186	209	3273	0	0	853
16	SLV FO 5	-106	-697	3117	0	0	-2841
16	SLV FO 6	-106	-697	3117	0	0	-2841
16	SLV FO 7	-106	697	3117	0	0	2841
16	SLV FO 8	-106	697	3117	0	0	2841
16	SLV FO 9	-38	-697	2984	0	0	-2841
16	SLV FO 10	-38	-697	2984	0	0	-2841
16	SLV FO 11	-38	697	2984	0	0	2841
16	SLV FO 12	-38	697	2984	0	0	2841
16	SLV FO 13	42	-209	2828	0	0	-852
16	SLV FO 14	42	-209	2828	0	0	-852
16	SLV FO 15	42	209	2828	0	0	852
16	SLV FO 16	42	209	2828	0	0	852
17	SLU 1	56	0	2626	0	0	0
17	SLU 2	-77	115	1516	0	0	202
17	SLU 3	-133	115	879	0	0	202
17	SLU 4	-36	0	1564	0	0	0
17	SLU 5	-116	69	898	0	0	121
17	SLU 6	-36	115	1855	0	0	201
17	SLU 7	-92	115	1218	0	0	202
17	SLU 8	5	0	1903	0	0	0
17	SLU 9	-75	69	1237	0	0	121
17	SLU 10	138	0	3303	0	0	0
17	SLU 11	58	69	2638	0	0	121
17	SLU 12	83	0	2666	0	0	0
17	SLU 13	3	69	2001	0	0	121
17	SLU 14	94	0	2943	0	0	0
17	SLU 15	-39	115	1833	0	0	201
17	SLU 16	-95	115	1196	0	0	202
17	SLU 17	2	0	1881	0	0	0
17	SLU 18	-78	69	1215	0	0	121
17	SLU 19	2	115	2172	0	0	201
17	SLU 20	-54	115	1535	0	0	202
17	SLU 21	43	0	2220	0	0	0
17	SLU 22	-37	69	1554	0	0	121
17	SLU 23	176	0	3620	0	0	0
17	SLU 24	96	69	2955	0	0	121
17	SLU 25	121	0	2984	0	0	0
17	SLU 26	41	69	2318	0	0	121
17	SLU 27	73	0	3413	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
17	SLU 28	-61	115	2304	0	0	202
17	SLU 29	-116	115	1667	0	0	202
17	SLU 30	-19	0	2352	0	0	0
17	SLU 31	-99	69	1686	0	0	121
17	SLU 32	-20	115	2642	0	0	201
17	SLU 33	-75	115	2005	0	0	202
17	SLU 34	22	0	2691	0	0	0
17	SLU 35	-58	69	2025	0	0	121
17	SLU 36	155	0	4091	0	0	0
17	SLU 37	75	69	3425	0	0	121
17	SLU 38	99	0	3454	0	0	0
17	SLU 39	19	69	2788	0	0	121
17	SLU 40	111	0	3730	0	0	0
17	SLU 41	-23	115	2621	0	0	201
17	SLU 42	-78	115	1984	0	0	202
17	SLU 43	19	0	2669	0	0	0
17	SLU 44	-61	69	2003	0	0	121
17	SLU 45	18	115	2960	0	0	201
17	SLU 46	-37	115	2323	0	0	202
17	SLU 47	60	0	3008	0	0	0
17	SLU 48	-20	69	2342	0	0	121
17	SLU 49	193	0	4408	0	0	0
17	SLU 50	113	69	3742	0	0	121
17	SLU 51	138	0	3771	0	0	0
17	SLU 52	58	69	3105	0	0	121
17	SLE RA 1	81	0	2837	0	0	0
17	SLE RA 2	-8	77	2097	0	0	134
17	SLE RA 3	-44	77	1673	0	0	134
17	SLE RA 4	20	0	2129	0	0	0
17	SLE RA 5	-33	46	1685	0	0	81
17	SLE RA 6	20	77	2323	0	0	134
17	SLE RA 7	-17	77	1898	0	0	134
17	SLE RA 8	47	0	2355	0	0	0
17	SLE RA 9	-6	46	1911	0	0	81
17	SLE RA 10	136	0	3289	0	0	0
17	SLE RA 11	83	46	2845	0	0	81
17	SLE RA 12	99	0	2864	0	0	0
17	SLE RA 13	46	46	2420	0	0	81
17	SLE FR 1	81	0	2837	0	0	0
17	SLE FR 2	64	15	2689	0	0	27
17	SLE FR 3	69	0	2696	0	0	0
17	SLE FR 4	92	0	2927	0	0	0
17	SLE QP 1	81	0	2837	0	0	0
17	SLD 1	11	-76	2752	0	0	-190
17	SLD 2	11	-76	2752	0	0	-190
17	SLD 3	11	76	2752	0	0	190
17	SLD 4	11	76	2752	0	0	190
17	SLD 5	60	-254	2812	0	0	-633
17	SLD 6	60	-254	2812	0	0	-633
17	SLD 7	60	254	2812	0	0	633
17	SLD 8	60	254	2812	0	0	633
17	SLD 9	102	-254	2863	0	0	-633
17	SLD 10	102	-254	2863	0	0	-633
17	SLD 11	102	254	2863	0	0	633
17	SLD 12	102	254	2863	0	0	633
17	SLD 13	152	-76	2922	0	0	-190
17	SLD 14	152	-76	2922	0	0	-190
17	SLD 15	152	76	2922	0	0	190
17	SLD 16	152	76	2922	0	0	190
17	SLV 1	-100	-195	2619	0	0	-487
17	SLV 2	-100	-195	2619	0	0	-487
17	SLV 3	-100	195	2619	0	0	487
17	SLV 4	-100	195	2619	0	0	487
17	SLV 5	27	-651	2772	0	0	-1625
17	SLV 6	27	-651	2772	0	0	-1625
17	SLV 7	27	651	2772	0	0	1625
17	SLV 8	27	651	2772	0	0	1625
17	SLV 9	136	-651	2903	0	0	-1625
17	SLV 10	136	-651	2903	0	0	-1625
17	SLV 11	136	651	2903	0	0	1625
17	SLV 12	136	651	2903	0	0	1625
17	SLV 13	262	-195	3055	0	0	-488
17	SLV 14	262	-195	3055	0	0	-488
17	SLV 15	262	195	3055	0	0	488
17	SLV 16	262	195	3055	0	0	488
17	SLV FO 1	-100	-195	2619	0	0	-487
17	SLV FO 2	-100	-195	2619	0	0	-487
17	SLV FO 3	-100	195	2619	0	0	487
17	SLV FO 4	-100	195	2619	0	0	487
17	SLV FO 5	27	-651	2772	0	0	-1625
17	SLV FO 6	27	-651	2772	0	0	-1625
17	SLV FO 7	27	651	2772	0	0	1625
17	SLV FO 8	27	651	2772	0	0	1625
17	SLV FO 9	136	-651	2903	0	0	-1625
17	SLV FO 10	136	-651	2903	0	0	-1625
17	SLV FO 11	136	651	2903	0	0	1625
17	SLV FO 12	136	651	2903	0	0	1625
17	SLV FO 13	262	-195	3055	0	0	-488
17	SLV FO 14	262	-195	3055	0	0	-488
17	SLV FO 15	262	195	3055	0	0	488
17	SLV FO 16	262	195	3055	0	0	488
18	SLU 1	-47	0	2661	0	0	0
18	SLU 2	20	97	1966	0	0	335
18	SLU 3	79	97	1532	0	0	335
18	SLU 4	52	0	1937	0	0	0
18	SLU 5	92	58	1520	0	0	201
18	SLU 6	1	97	2176	0	0	336
18	SLU 7	60	97	1742	0	0	335
18	SLU 8	32	0	2147	0	0	0
18	SLU 9	73	58	1730	0	0	201
18	SLU 10	-86	0	3081	0	0	0
18	SLU 11	-46	58	2664	0	0	202
18	SLU 12	-26	0	2647	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
18	SLU 13	14	58	2230	0	0	201
18	SLU 14	-65	0	2860	0	0	0
18	SLU 15	2	97	2165	0	0	336
18	SLU 16	61	97	1731	0	0	335
18	SLU 17	34	0	2136	0	0	0
18	SLU 18	74	58	1719	0	0	201
18	SLU 19	-17	97	2375	0	0	336
18	SLU 20	42	97	1941	0	0	335
18	SLU 21	14	0	2346	0	0	0
18	SLU 22	54	58	1929	0	0	201
18	SLU 23	-104	0	3280	0	0	0
18	SLU 24	-64	58	2863	0	0	202
18	SLU 25	-45	0	2846	0	0	0
18	SLU 26	-4	58	2429	0	0	201
18	SLU 27	-61	0	3459	0	0	0
18	SLU 28	6	97	2764	0	0	336
18	SLU 29	65	97	2330	0	0	335
18	SLU 30	38	0	2736	0	0	0
18	SLU 31	78	58	2319	0	0	201
18	SLU 32	-13	97	2974	0	0	336
18	SLU 33	46	97	2540	0	0	335
18	SLU 34	18	0	2946	0	0	0
18	SLU 35	59	58	2529	0	0	201
18	SLU 36	-100	0	3879	0	0	0
18	SLU 37	-60	58	3462	0	0	202
18	SLU 38	-40	0	3445	0	0	0
18	SLU 39	0	58	3028	0	0	201
18	SLU 40	-79	0	3658	0	0	0
18	SLU 41	-12	97	2963	0	0	336
18	SLU 42	47	97	2529	0	0	335
18	SLU 43	20	0	2935	0	0	0
18	SLU 44	60	58	2518	0	0	201
18	SLU 45	-31	97	3173	0	0	336
18	SLU 46	28	97	2739	0	0	335
18	SLU 47	0	0	3145	0	0	0
18	SLU 48	40	58	2727	0	0	201
18	SLU 49	-118	0	4078	0	0	0
18	SLU 50	-78	58	3661	0	0	202
18	SLU 51	-59	0	3644	0	0	0
18	SLU 52	-18	58	3227	0	0	201
18	SLE RA 1	-59	0	2794	0	0	0
18	SLE RA 2	-14	64	2330	0	0	224
18	SLE RA 3	25	64	2041	0	0	224
18	SLE RA 4	7	0	2311	0	0	0
18	SLE RA 5	34	39	2033	0	0	134
18	SLE RA 6	-27	64	2470	0	0	224
18	SLE RA 7	12	64	2181	0	0	224
18	SLE RA 8	-6	0	2451	0	0	0
18	SLE RA 9	21	39	2173	0	0	134
18	SLE RA 10	-85	0	3073	0	0	0
18	SLE RA 11	-58	39	2795	0	0	134
18	SLE RA 12	-45	0	2784	0	0	0
18	SLE RA 13	-19	39	2506	0	0	134
18	SLE FR 1	-59	0	2794	0	0	0
18	SLE FR 2	-50	13	2701	0	0	45
18	SLE FR 3	-46	0	2697	0	0	0
18	SLE FR 4	-64	0	2850	0	0	0
18	SLE QP 1	-59	0	2794	0	0	0
18	SLD 1	-105	-81	2879	0	0	-331
18	SLD 2	-105	-81	2879	0	0	-331
18	SLD 3	-92	81	2867	0	0	332
18	SLD 4	-92	81	2867	0	0	332
18	SLD 5	-91	-271	2837	0	0	-1104
18	SLD 6	-91	-271	2837	0	0	-1104
18	SLD 7	-50	271	2798	0	0	1106
18	SLD 8	-50	271	2798	0	0	1106
18	SLD 9	-67	-271	2789	0	0	-1104
18	SLD 10	-67	-271	2789	0	0	-1104
18	SLD 11	-26	271	2750	0	0	1106
18	SLD 12	-26	271	2750	0	0	1106
18	SLD 13	-25	-81	2720	0	0	-331
18	SLD 14	-25	-81	2720	0	0	-331
18	SLD 15	-13	81	2708	0	0	332
18	SLD 16	-13	81	2708	0	0	332
18	SLV 1	-177	-209	3014	0	0	-851
18	SLV 2	-177	-209	3014	0	0	-851
18	SLV 3	-145	209	2983	0	0	852
18	SLV 4	-145	209	2983	0	0	852
18	SLV 5	-142	-697	2906	0	0	-2837
18	SLV 6	-142	-697	2906	0	0	-2837
18	SLV 7	-37	697	2804	0	0	2840
18	SLV 8	-37	697	2804	0	0	2840
18	SLV 9	-80	-697	2783	0	0	-2837
18	SLV 10	-80	-697	2783	0	0	-2837
18	SLV 11	24	697	2681	0	0	2840
18	SLV 12	24	697	2681	0	0	2840
18	SLV 13	28	-209	2604	0	0	-851
18	SLV 14	28	-209	2604	0	0	-851
18	SLV 15	59	209	2574	0	0	852
18	SLV 16	59	209	2574	0	0	852
18	SLV FO 1	-177	-209	3014	0	0	-851
18	SLV FO 2	-177	-209	3014	0	0	-851
18	SLV FO 3	-145	209	2983	0	0	852
18	SLV FO 4	-145	209	2983	0	0	852
18	SLV FO 5	-142	-697	2906	0	0	-2837
18	SLV FO 6	-142	-697	2906	0	0	-2837
18	SLV FO 7	-37	697	2804	0	0	2840
18	SLV FO 8	-37	697	2804	0	0	2840
18	SLV FO 9	-80	-697	2783	0	0	-2837
18	SLV FO 10	-80	-697	2783	0	0	-2837

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
18	SLV FO 11	24	697	2681	0	0	2840
18	SLV FO 12	24	697	2681	0	0	2840
18	SLV FO 13	28	-209	2604	0	0	-851
18	SLV FO 14	28	-209	2604	0	0	-851
18	SLV FO 15	59	209	2574	0	0	852
18	SLV FO 16	59	209	2574	0	0	852
19	SLU 1	44	0	2506	0	0	0
19	SLU 2	0	115	1982	0	0	201
19	SLU 3	-10	115	1688	0	0	201
19	SLU 4	28	0	2016	0	0	0
19	SLU 5	2	69	1701	0	0	120
19	SLU 6	16	115	2145	0	0	201
19	SLU 7	6	115	1851	0	0	201
19	SLU 8	44	0	2179	0	0	0
19	SLU 9	18	69	1864	0	0	120
19	SLU 10	76	0	2832	0	0	0
19	SLU 11	49	69	2517	0	0	121
19	SLU 12	67	0	2538	0	0	0
19	SLU 13	40	69	2223	0	0	120
19	SLU 14	59	0	2658	0	0	0
19	SLU 15	14	115	2134	0	0	201
19	SLU 16	5	115	1840	0	0	201
19	SLU 17	43	0	2168	0	0	0
19	SLU 18	16	69	1854	0	0	120
19	SLU 19	30	115	2297	0	0	201
19	SLU 20	21	115	2003	0	0	201
19	SLU 21	59	0	2331	0	0	0
19	SLU 22	32	69	2017	0	0	120
19	SLU 23	91	0	2984	0	0	0
19	SLU 24	64	69	2670	0	0	121
19	SLU 25	81	0	2690	0	0	0
19	SLU 26	55	69	2376	0	0	120
19	SLU 27	58	0	3257	0	0	0
19	SLU 28	13	115	2733	0	0	201
19	SLU 29	3	115	2439	0	0	201
19	SLU 30	42	0	2768	0	0	0
19	SLU 31	15	69	2453	0	0	120
19	SLU 32	29	115	2896	0	0	201
19	SLU 33	19	115	2603	0	0	201
19	SLU 34	58	0	2931	0	0	0
19	SLU 35	31	69	2616	0	0	120
19	SLU 36	89	0	3583	0	0	0
19	SLU 37	63	69	3269	0	0	121
19	SLU 38	80	0	3289	0	0	0
19	SLU 39	53	69	2975	0	0	120
19	SLU 40	72	0	3410	0	0	0
19	SLU 41	28	115	2886	0	0	201
19	SLU 42	18	115	2592	0	0	201
19	SLU 43	56	0	2920	0	0	0
19	SLU 44	30	69	2606	0	0	120
19	SLU 45	44	115	3049	0	0	201
19	SLU 46	34	115	2755	0	0	201
19	SLU 47	72	0	3083	0	0	0
19	SLU 48	46	69	2769	0	0	120
19	SLU 49	104	0	3736	0	0	0
19	SLU 50	77	69	3421	0	0	121
19	SLU 51	95	0	3442	0	0	0
19	SLU 52	68	69	3128	0	0	120
19	SLE RA 1	54	0	2607	0	0	0
19	SLE RA 2	24	77	2258	0	0	134
19	SLE RA 3	18	77	2062	0	0	134
19	SLE RA 4	43	0	2281	0	0	0
19	SLE RA 5	26	46	2071	0	0	80
19	SLE RA 6	35	77	2367	0	0	134
19	SLE RA 7	29	77	2171	0	0	134
19	SLE RA 8	54	0	2389	0	0	0
19	SLE RA 9	36	46	2180	0	0	80
19	SLE RA 10	75	0	2825	0	0	0
19	SLE RA 11	57	46	2615	0	0	80
19	SLE RA 12	69	0	2629	0	0	0
19	SLE RA 13	51	46	2419	0	0	80
19	SLE FR 1	54	0	2607	0	0	0
19	SLE FR 2	48	15	2537	0	0	27
19	SLE FR 3	52	0	2542	0	0	0
19	SLE FR 4	58	0	2651	0	0	0
19	SLE QP 1	54	0	2607	0	0	0
19	SLD 1	-22	-76	2511	0	0	-190
19	SLD 2	-22	-76	2511	0	0	-190
19	SLD 3	1	76	2543	0	0	190
19	SLD 4	1	76	2543	0	0	190
19	SLD 5	-4	-254	2529	0	0	-634
19	SLD 6	-4	-254	2529	0	0	-634
19	SLD 7	73	253	2637	0	0	631
19	SLD 8	73	253	2637	0	0	631
19	SLD 9	35	-254	2578	0	0	-634
19	SLD 10	35	-254	2578	0	0	-634
19	SLD 11	112	253	2685	0	0	631
19	SLD 12	112	253	2685	0	0	631
19	SLD 13	107	-76	2672	0	0	-190
19	SLD 14	107	-76	2672	0	0	-190
19	SLD 15	130	76	2704	0	0	189
19	SLD 16	130	76	2704	0	0	189
19	SLV 1	-142	-196	2359	0	0	-489
19	SLV 2	-142	-196	2359	0	0	-489
19	SLV 3	-83	195	2442	0	0	487
19	SLV 4	-83	195	2442	0	0	487
19	SLV 5	-94	-652	2407	0	0	-1630
19	SLV 6	-94	-652	2407	0	0	-1630
19	SLV 7	102	651	2683	0	0	1622
19	SLV 8	102	651	2683	0	0	1622
19	SLV 9	6	-652	2532	0	0	-1630
19	SLV 10	6	-652	2532	0	0	-1630
19	SLV 11	202	651	2807	0	0	1622

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
19	SLV 12	202	651	2807	0	0	1622
19	SLV 13	191	-196	2773	0	0	-489
19	SLV 14	191	-196	2773	0	0	-489
19	SLV 15	250	195	2856	0	0	486
19	SLV 16	250	195	2856	0	0	486
19	SLV FO 1	-142	-196	2359	0	0	-489
19	SLV FO 2	-142	-196	2359	0	0	-489
19	SLV FO 3	-83	195	2442	0	0	487
19	SLV FO 4	-83	195	2442	0	0	487
19	SLV FO 5	-94	-652	2407	0	0	-1630
19	SLV FO 6	-94	-652	2407	0	0	-1630
19	SLV FO 7	102	651	2683	0	0	1622
19	SLV FO 8	102	651	2683	0	0	1622
19	SLV FO 9	6	-652	2532	0	0	-1630
19	SLV FO 10	6	-652	2532	0	0	-1630
19	SLV FO 11	202	651	2807	0	0	1622
19	SLV FO 12	202	651	2807	0	0	1622
19	SLV FO 13	191	-196	2773	0	0	-489
19	SLV FO 14	191	-196	2773	0	0	-489
19	SLV FO 15	250	195	2856	0	0	486
19	SLV FO 16	250	195	2856	0	0	486
20	SLU 1	183	0	2688	0	0	0
20	SLU 2	-51	-80	1979	0	0	403
20	SLU 3	-284	-80	1537	0	0	403
20	SLU 4	-204	0	1952	0	0	0
20	SLU 5	-345	-48	1527	0	0	242
20	SLU 6	25	-80	2192	0	0	403
20	SLU 7	-207	-80	1751	0	0	403
20	SLU 8	-127	0	2166	0	0	0
20	SLU 9	-268	-48	1740	0	0	242
20	SLU 10	336	0	3115	0	0	0
20	SLU 11	195	-48	2689	0	0	242
20	SLU 12	104	0	2673	0	0	0
20	SLU 13	-37	-48	2248	0	0	242
20	SLU 14	254	0	2890	0	0	0
20	SLU 15	19	-80	2181	0	0	403
20	SLU 16	-213	-80	1740	0	0	403
20	SLU 17	-133	0	2154	0	0	0
20	SLU 18	-274	-48	1729	0	0	242
20	SLU 19	96	-80	2394	0	0	403
20	SLU 20	-136	-80	1953	0	0	403
20	SLU 21	-56	0	2368	0	0	0
20	SLU 22	-197	-48	1942	0	0	242
20	SLU 23	407	0	3317	0	0	0
20	SLU 24	266	-48	2891	0	0	242
20	SLU 25	175	0	2875	0	0	0
20	SLU 26	34	-48	2450	0	0	242
20	SLU 27	238	0	3494	0	0	0
20	SLU 28	3	-80	2785	0	0	403
20	SLU 29	-229	-80	2344	0	0	403
20	SLU 30	-149	0	2758	0	0	0
20	SLU 31	-290	-48	2333	0	0	242
20	SLU 32	80	-80	2998	0	0	403
20	SLU 33	-152	-80	2557	0	0	403
20	SLU 34	-72	0	2972	0	0	0
20	SLU 35	-213	-48	2546	0	0	242
20	SLU 36	391	0	3921	0	0	0
20	SLU 37	250	-48	3495	0	0	242
20	SLU 38	159	0	3479	0	0	0
20	SLU 39	18	-48	3054	0	0	242
20	SLU 40	309	0	3696	0	0	0
20	SLU 41	74	-80	2987	0	0	403
20	SLU 42	-158	-80	2546	0	0	403
20	SLU 43	-78	0	2961	0	0	0
20	SLU 44	-219	-48	2535	0	0	242
20	SLU 45	151	-80	3201	0	0	404
20	SLU 46	-81	-80	2759	0	0	403
20	SLU 47	-2	0	3174	0	0	0
20	SLU 48	-142	-48	2749	0	0	242
20	SLU 49	462	0	4123	0	0	0
20	SLU 50	321	-48	3698	0	0	242
20	SLU 51	230	0	3682	0	0	0
20	SLU 52	89	-48	3256	0	0	242
20	SLE RA 1	230	0	2823	0	0	0
20	SLE RA 2	74	-53	2350	0	0	269
20	SLE RA 3	-81	-53	2056	0	0	269
20	SLE RA 4	-28	0	2332	0	0	0
20	SLE RA 5	-121	-32	2049	0	0	161
20	SLE RA 6	125	-53	2492	0	0	269
20	SLE RA 7	-30	-53	2198	0	0	269
20	SLE RA 8	23	0	2474	0	0	0
20	SLE RA 9	-70	-32	2191	0	0	161
20	SLE RA 10	332	0	3107	0	0	0
20	SLE RA 11	238	-32	2823	0	0	161
20	SLE RA 12	178	0	2813	0	0	0
20	SLE RA 13	84	-32	2529	0	0	161
20	SLE FR 1	230	0	2823	0	0	0
20	SLE FR 2	199	-11	2728	0	0	54
20	SLE FR 3	179	0	2724	0	0	0
20	SLE FR 4	251	0	2879	0	0	0
20	SLE QP 1	230	0	2823	0	0	0
20	SLD 1	363	66	2898	0	0	-400
20	SLD 2	363	66	2898	0	0	-400
20	SLD 3	411	-66	2910	0	0	399
20	SLD 4	411	-66	2910	0	0	399
20	SLD 5	197	221	2827	0	0	-1332
20	SLD 6	197	221	2827	0	0	-1332
20	SLD 7	357	-221	2867	0	0	1331
20	SLD 8	357	-221	2867	0	0	1331
20	SLD 9	103	221	2778	0	0	-1332

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
20	SLD 10	103	221	2778	0	0	-1332
20	SLD 11	263	-221	2818	0	0	1331
20	SLD 12	263	-221	2818	0	0	1331
20	SLD 13	50	66	2735	0	0	-400
20	SLD 14	50	66	2735	0	0	-400
20	SLD 15	98	-66	2747	0	0	399
20	SLD 16	98	-66	2747	0	0	399
20	SLV 1	570	171	3015	0	0	-1027
20	SLV 2	570	171	3015	0	0	-1027
20	SLV 3	693	-171	3046	0	0	1026
20	SLV 4	693	-171	3046	0	0	1026
20	SLV 5	145	569	2834	0	0	-3423
20	SLV 6	145	569	2834	0	0	-3423
20	SLV 7	556	-569	2936	0	0	3419
20	SLV 8	556	-569	2936	0	0	3419
20	SLV 9	-96	569	2709	0	0	-3423
20	SLV 10	-96	569	2709	0	0	-3423
20	SLV 11	315	-569	2812	0	0	3419
20	SLV 12	315	-569	2812	0	0	3419
20	SLV 13	-233	171	2599	0	0	-1027
20	SLV 14	-233	171	2599	0	0	-1027
20	SLV 15	-109	-171	2630	0	0	1026
20	SLV 16	-109	-171	2630	0	0	1026
20	SLV FO 1	570	171	3015	0	0	-1027
20	SLV FO 2	570	171	3015	0	0	-1027
20	SLV FO 3	693	-171	3046	0	0	1026
20	SLV FO 4	693	-171	3046	0	0	1026
20	SLV FO 5	145	569	2834	0	0	-3423
20	SLV FO 6	145	569	2834	0	0	-3423
20	SLV FO 7	556	-569	2936	0	0	3419
20	SLV FO 8	556	-569	2936	0	0	3419
20	SLV FO 9	-96	569	2709	0	0	-3423
20	SLV FO 10	-96	569	2709	0	0	-3423
20	SLV FO 11	315	-569	2812	0	0	3419
20	SLV FO 12	315	-569	2812	0	0	3419
20	SLV FO 13	-233	171	2599	0	0	-1027
20	SLV FO 14	-233	171	2599	0	0	-1027
20	SLV FO 15	-109	-171	2630	0	0	1026
20	SLV FO 16	-109	-171	2630	0	0	1026
21	SLU 1	-174	0	2530	0	0	0
21	SLU 2	54	-203	1978	0	0	415
21	SLU 3	92	-203	1679	0	0	415
21	SLU 4	-111	0	2032	0	0	0
21	SLU 5	26	-122	1700	0	0	249
21	SLU 6	-8	-203	2143	0	0	415
21	SLU 7	29	-203	1845	0	0	415
21	SLU 8	-174	0	2198	0	0	0
21	SLU 9	-37	-122	1866	0	0	249
21	SLU 10	-299	0	2861	0	0	0
21	SLU 11	-162	-122	2530	0	0	249
21	SLU 12	-261	0	2563	0	0	0
21	SLU 13	-124	-122	2231	0	0	249
21	SLU 14	-231	0	2685	0	0	0
21	SLU 15	-3	-203	2133	0	0	415
21	SLU 16	34	-203	1834	0	0	415
21	SLU 17	-169	0	2187	0	0	0
21	SLU 18	-32	-122	1855	0	0	249
21	SLU 19	-66	-203	2298	0	0	415
21	SLU 20	-28	-203	2000	0	0	415
21	SLU 21	-231	0	2353	0	0	0
21	SLU 22	-94	-122	2021	0	0	249
21	SLU 23	-356	0	3016	0	0	0
21	SLU 24	-220	-122	2685	0	0	249
21	SLU 25	-319	0	2718	0	0	0
21	SLU 26	-182	-122	2386	0	0	249
21	SLU 27	-226	0	3289	0	0	0
21	SLU 28	2	-203	2737	0	0	415
21	SLU 29	40	-203	2438	0	0	415
21	SLU 30	-164	0	2791	0	0	0
21	SLU 31	-27	-122	2459	0	0	249
21	SLU 32	-60	-203	2902	0	0	415
21	SLU 33	-23	-203	2604	0	0	415
21	SLU 34	-226	0	2957	0	0	0
21	SLU 35	-89	-122	2625	0	0	249
21	SLU 36	-351	0	3620	0	0	0
21	SLU 37	-214	-121	3289	0	0	249
21	SLU 38	-313	0	3321	0	0	0
21	SLU 39	-177	-122	2990	0	0	249
21	SLU 40	-283	0	3444	0	0	0
21	SLU 41	-55	-203	2892	0	0	415
21	SLU 42	-18	-203	2593	0	0	415
21	SLU 43	-221	0	2946	0	0	0
21	SLU 44	-84	-122	2614	0	0	249
21	SLU 45	-118	-203	3057	0	0	415
21	SLU 46	-80	-203	2758	0	0	415
21	SLU 47	-284	0	3112	0	0	0
21	SLU 48	-147	-122	2780	0	0	249
21	SLU 49	-408	0	3775	0	0	0
21	SLU 50	-272	-122	3444	0	0	249
21	SLU 51	-371	0	3476	0	0	0
21	SLU 52	-234	-122	3145	0	0	249
21	SLE RA 1	-212	0	2633	0	0	0
21	SLE RA 2	-60	-135	2265	0	0	277
21	SLE RA 3	-35	-135	2066	0	0	277
21	SLE RA 4	-171	0	2301	0	0	0
21	SLE RA 5	-79	-81	2080	0	0	166
21	SLE RA 6	-102	-135	2376	0	0	277
21	SLE RA 7	-77	-135	2176	0	0	277
21	SLE RA 8	-212	0	2412	0	0	0
21	SLE RA 9	-121	-81	2191	0	0	166
21	SLE RA 10	-295	0	2854	0	0	0
21	SLE RA 11	-204	-81	2633	0	0	166
21	SLE RA 12	-271	0	2655	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
21	SLE RA 13	-179	-81	2434	0	0	166
21	SLE FR 1	-212	0	2633	0	0	0
21	SLE FR 2	-182	-27	2560	0	0	55
21	SLE FR 3	-204	0	2567	0	0	0
21	SLE FR 4	-229	0	2677	0	0	0
21	SLE QP 1	-212	0	2633	0	0	0
21	SLD 1	-2	72	2568	0	0	-228
21	SLD 2	-2	72	2568	0	0	-228
21	SLD 3	88	-72	2535	0	0	229
21	SLD 4	88	-72	2535	0	0	229
21	SLD 5	-286	240	2663	0	0	-761
21	SLD 6	-286	240	2663	0	0	-761
21	SLD 7	15	-241	2554	0	0	765
21	SLD 8	15	-241	2554	0	0	765
21	SLD 9	-439	240	2712	0	0	-761
21	SLD 10	-439	240	2712	0	0	-761
21	SLD 11	-138	-240	2603	0	0	765
21	SLD 12	-138	-240	2603	0	0	765
21	SLD 13	-512	72	2731	0	0	-228
21	SLD 14	-512	72	2731	0	0	-228
21	SLD 15	-422	-72	2699	0	0	229
21	SLD 16	-422	-72	2699	0	0	229
21	SLV 1	327	185	2465	0	0	-587
21	SLV 2	327	185	2465	0	0	-587
21	SLV 3	558	-185	2381	0	0	589
21	SLV 4	558	-185	2381	0	0	589
21	SLV 5	-402	617	2710	0	0	-1955
21	SLV 6	-402	617	2710	0	0	-1955
21	SLV 7	370	-618	2430	0	0	1964
21	SLV 8	370	-618	2430	0	0	1964
21	SLV 9	-794	617	2836	0	0	-1954
21	SLV 10	-794	617	2836	0	0	-1954
21	SLV 11	-22	-618	2556	0	0	1964
21	SLV 12	-22	-618	2556	0	0	1964
21	SLV 13	-982	185	2886	0	0	-586
21	SLV 14	-982	185	2886	0	0	-586
21	SLV 15	-751	-185	2802	0	0	589
21	SLV 16	-751	-185	2802	0	0	589
21	SLV FO 1	327	185	2465	0	0	-587
21	SLV FO 2	327	185	2465	0	0	-587
21	SLV FO 3	558	-185	2381	0	0	589
21	SLV FO 4	558	-185	2381	0	0	589
21	SLV FO 5	-402	617	2710	0	0	-1955
21	SLV FO 6	-402	617	2710	0	0	-1955
21	SLV FO 7	370	-618	2430	0	0	1964
21	SLV FO 8	370	-618	2430	0	0	1964
21	SLV FO 9	-794	617	2836	0	0	-1954
21	SLV FO 10	-794	617	2836	0	0	-1954
21	SLV FO 11	-22	-618	2556	0	0	1964
21	SLV FO 12	-22	-618	2556	0	0	1964
21	SLV FO 13	-982	185	2886	0	0	-586
21	SLV FO 14	-982	185	2886	0	0	-586
21	SLV FO 15	-751	-185	2802	0	0	589
21	SLV FO 16	-751	-185	2802	0	0	589
22	SLU 1	201	0	2822	0	0	0
22	SLU 2	-229	-79	1448	0	0	405
22	SLU 3	-581	-79	612	0	0	404
22	SLU 4	-386	0	1429	0	0	0
22	SLU 5	-644	-48	604	0	0	243
22	SLU 6	-96	-79	1862	0	0	405
22	SLU 7	-448	-79	1026	0	0	404
22	SLU 8	-253	0	1843	0	0	0
22	SLU 9	-511	-48	1018	0	0	243
22	SLU 10	467	0	3651	0	0	0
22	SLU 11	209	-48	2826	0	0	243
22	SLU 12	115	0	2815	0	0	0
22	SLU 13	-143	-48	1990	0	0	243
22	SLU 14	324	0	3215	0	0	0
22	SLU 15	-106	-79	1840	0	0	405
22	SLU 16	-458	-79	1004	0	0	404
22	SLU 17	-263	0	1821	0	0	0
22	SLU 18	-521	-48	997	0	0	243
22	SLU 19	27	-79	2255	0	0	405
22	SLU 20	-325	-79	1419	0	0	404
22	SLU 21	-130	0	2236	0	0	0
22	SLU 22	-388	-48	1411	0	0	243
22	SLU 23	590	0	4043	0	0	0
22	SLU 24	332	-48	3219	0	0	243
22	SLU 25	238	0	3207	0	0	0
22	SLU 26	-20	-48	2383	0	0	243
22	SLU 27	261	0	3668	0	0	0
22	SLU 28	-169	-79	2294	0	0	405
22	SLU 29	-521	-79	1458	0	0	404
22	SLU 30	-326	0	2275	0	0	0
22	SLU 31	-583	-48	1451	0	0	243
22	SLU 32	-36	-79	2709	0	0	405
22	SLU 33	-388	-79	1873	0	0	404
22	SLU 34	-193	0	2690	0	0	0
22	SLU 35	-450	-48	1865	0	0	243
22	SLU 36	527	0	4497	0	0	0
22	SLU 37	269	-48	3673	0	0	243
22	SLU 38	175	0	3661	0	0	0
22	SLU 39	-83	-48	2837	0	0	243
22	SLU 40	384	0	4061	0	0	0
22	SLU 41	-46	-79	2687	0	0	405
22	SLU 42	-398	-79	1851	0	0	404
22	SLU 43	-203	0	2668	0	0	0
22	SLU 44	-461	-48	1843	0	0	243
22	SLU 45	87	-79	3101	0	0	405
22	SLU 46	-265	-79	2265	0	0	404

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
22	SLU 47	-70	0	3082	0	0	0
22	SLU 48	-328	-48	2258	0	0	243
22	SLU 49	650	0	4890	0	0	0
22	SLU 50	392	-48	4065	0	0	243
22	SLU 51	298	0	4054	0	0	0
22	SLU 52	40	-48	3229	0	0	243
22	SLE RA 1	283	0	3084	0	0	0
22	SLE RA 2	-4	-53	2168	0	0	270
22	SLE RA 3	-238	-53	1610	0	0	270
22	SLE RA 4	-108	0	2155	0	0	0
22	SLE RA 5	-280	-32	1605	0	0	162
22	SLE RA 6	85	-53	2444	0	0	270
22	SLE RA 7	-150	-53	1886	0	0	270
22	SLE RA 8	-20	0	2431	0	0	0
22	SLE RA 9	-192	-32	1881	0	0	162
22	SLE RA 10	460	0	3636	0	0	0
22	SLE RA 11	288	-32	3086	0	0	162
22	SLE RA 12	225	0	3079	0	0	0
22	SLE RA 13	54	-32	2529	0	0	162
22	SLE FR 1	283	0	3084	0	0	0
22	SLE FR 2	226	-11	2900	0	0	54
22	SLE FR 3	205	0	2898	0	0	0
22	SLE FR 4	318	0	3194	0	0	0
22	SLE QP 1	283	0	3084	0	0	0
22	SLD 1	457	66	3172	0	0	-400
22	SLD 2	457	66	3172	0	0	-400
22	SLD 3	457	-66	3172	0	0	400
22	SLD 4	457	-66	3172	0	0	400
22	SLD 5	335	222	3110	0	0	-1333
22	SLD 6	335	222	3110	0	0	-1333
22	SLD 7	335	-222	3110	0	0	1333
22	SLD 8	335	-222	3110	0	0	1333
22	SLD 9	230	222	3057	0	0	-1333
22	SLD 10	230	222	3057	0	0	-1333
22	SLD 11	230	-222	3057	0	0	1333
22	SLD 12	230	-222	3057	0	0	1333
22	SLD 13	109	66	2996	0	0	-400
22	SLD 14	109	66	2996	0	0	-400
22	SLD 15	109	-66	2996	0	0	400
22	SLD 16	109	-66	2996	0	0	400
22	SLV 1	730	171	3310	0	0	-1027
22	SLV 2	730	171	3310	0	0	-1027
22	SLV 3	730	-171	3310	0	0	1027
22	SLV 4	730	-171	3310	0	0	1027
22	SLV 5	417	569	3151	0	0	-3424
22	SLV 6	417	569	3151	0	0	-3424
22	SLV 7	417	-569	3151	0	0	3424
22	SLV 8	417	-569	3151	0	0	3424
22	SLV 9	148	569	3016	0	0	-3424
22	SLV 10	148	569	3016	0	0	-3424
22	SLV 11	148	-569	3016	0	0	3424
22	SLV 12	148	-569	3016	0	0	3424
22	SLV 13	-165	171	2858	0	0	-1027
22	SLV 14	-165	171	2858	0	0	-1027
22	SLV 15	-165	-171	2858	0	0	1027
22	SLV 16	-165	-171	2858	0	0	1027
22	SLV FO 1	730	171	3310	0	0	-1027
22	SLV FO 2	730	171	3310	0	0	-1027
22	SLV FO 3	730	-171	3310	0	0	1027
22	SLV FO 4	730	-171	3310	0	0	1027
22	SLV FO 5	417	569	3151	0	0	-3424
22	SLV FO 6	417	569	3151	0	0	-3424
22	SLV FO 7	417	-569	3151	0	0	3424
22	SLV FO 8	417	-569	3151	0	0	3424
22	SLV FO 9	148	569	3016	0	0	-3424
22	SLV FO 10	148	569	3016	0	0	-3424
22	SLV FO 11	148	-569	3016	0	0	3424
22	SLV FO 12	148	-569	3016	0	0	3424
22	SLV FO 13	-165	171	2858	0	0	-1027
22	SLV FO 14	-165	171	2858	0	0	-1027
22	SLV FO 15	-165	-171	2858	0	0	1027
22	SLV FO 16	-165	-171	2858	0	0	1027
23	SLU 1	-219	0	2652	0	0	0
23	SLU 2	304	-109	1524	0	0	243
23	SLU 3	521	-109	876	0	0	243
23	SLU 4	142	0	1573	0	0	0
23	SLU 5	456	-66	896	0	0	146
23	SLU 6	143	-109	1868	0	0	243
23	SLU 7	360	-109	1220	0	0	243
23	SLU 8	-19	0	1917	0	0	0
23	SLU 9	295	-66	1240	0	0	146
23	SLU 10	-541	0	3341	0	0	0
23	SLU 11	-227	-66	2664	0	0	146
23	SLU 12	-325	0	2693	0	0	0
23	SLU 13	-11	-66	2016	0	0	146
23	SLU 14	-369	0	2974	0	0	0
23	SLU 15	154	-109	1846	0	0	243
23	SLU 16	371	-109	1198	0	0	243
23	SLU 17	-7	0	1895	0	0	0
23	SLU 18	306	-66	1218	0	0	146
23	SLU 19	-7	-109	2190	0	0	243
23	SLU 20	210	-109	1543	0	0	243
23	SLU 21	-168	0	2239	0	0	0
23	SLU 22	146	-66	1562	0	0	146
23	SLU 23	-691	0	3663	0	0	0
23	SLU 24	-377	-66	2986	0	0	146
23	SLU 25	-474	0	3016	0	0	0
23	SLU 26	-160	-66	2339	0	0	146
23	SLU 27	-285	0	3447	0	0	0
23	SLU 28	238	-109	2319	0	0	243
23	SLU 29	455	-109	1672	0	0	243
23	SLU 30	76	0	2368	0	0	0
23	SLU 31	390	-66	1691	0	0	146

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
23	SLU 32	77	-109	2664	0	0	243
23	SLU 33	294	-109	2016	0	0	243
23	SLU 34	-85	0	2713	0	0	0
23	SLU 35	229	-66	2036	0	0	146
23	SLU 36	-607	0	4136	0	0	0
23	SLU 37	-293	-66	3459	0	0	146
23	SLU 38	-390	0	3489	0	0	0
23	SLU 39	-76	-66	2812	0	0	146
23	SLU 40	-435	0	3770	0	0	0
23	SLU 41	88	-109	2641	0	0	243
23	SLU 42	305	-109	1994	0	0	243
23	SLU 43	-73	0	2690	0	0	0
23	SLU 44	241	-66	2014	0	0	146
23	SLU 45	-72	-109	2986	0	0	243
23	SLU 46	144	-109	2338	0	0	243
23	SLU 47	-234	0	3035	0	0	0
23	SLU 48	80	-66	2358	0	0	146
23	SLU 49	-757	0	4459	0	0	0
23	SLU 50	-443	-66	3782	0	0	146
23	SLU 51	-540	0	3811	0	0	0
23	SLU 52	-226	-66	3134	0	0	146
23	SLE RA 1	-319	0	2867	0	0	0
23	SLE RA 2	30	-73	2115	0	0	162
23	SLE RA 3	174	-73	1683	0	0	162
23	SLE RA 4	-78	0	2147	0	0	0
23	SLE RA 5	131	-44	1696	0	0	97
23	SLE RA 6	-78	-73	2344	0	0	162
23	SLE RA 7	67	-73	1913	0	0	162
23	SLE RA 8	-185	0	2377	0	0	0
23	SLE RA 9	24	-44	1926	0	0	97
23	SLE RA 10	-534	0	3326	0	0	0
23	SLE RA 11	-324	-44	2875	0	0	97
23	SLE RA 12	-389	0	2894	0	0	0
23	SLE RA 13	-180	-44	2443	0	0	97
23	SLE FR 1	-319	0	2867	0	0	0
23	SLE FR 2	-249	-15	2716	0	0	32
23	SLE FR 3	-271	0	2723	0	0	0
23	SLE FR 4	-362	0	2959	0	0	0
23	SLE QP 1	-319	0	2867	0	0	0
23	SLD 1	-42	72	2781	0	0	-229
23	SLD 2	-42	72	2781	0	0	-229
23	SLD 3	-42	-72	2781	0	0	229
23	SLD 4	-42	-72	2781	0	0	229
23	SLD 5	-236	240	2841	0	0	-762
23	SLD 6	-236	240	2841	0	0	-762
23	SLD 7	-236	-240	2841	0	0	762
23	SLD 8	-236	-240	2841	0	0	762
23	SLD 9	-402	240	2893	0	0	-762
23	SLD 10	-402	240	2893	0	0	-762
23	SLD 11	-402	-240	2893	0	0	762
23	SLD 12	-402	-240	2893	0	0	762
23	SLD 13	-596	72	2953	0	0	-229
23	SLD 14	-596	72	2953	0	0	-229
23	SLD 15	-596	-72	2953	0	0	229
23	SLD 16	-596	-72	2953	0	0	229
23	SLV 1	392	185	2645	0	0	-588
23	SLV 2	392	185	2645	0	0	-588
23	SLV 3	392	-185	2645	0	0	588
23	SLV 4	392	-185	2645	0	0	588
23	SLV 5	-106	617	2800	0	0	-1959
23	SLV 6	-106	617	2800	0	0	-1959
23	SLV 7	-106	-617	2800	0	0	1959
23	SLV 8	-106	-617	2800	0	0	1959
23	SLV 9	-533	617	2933	0	0	-1959
23	SLV 10	-533	617	2933	0	0	-1959
23	SLV 11	-533	-617	2933	0	0	1959
23	SLV 12	-533	-617	2933	0	0	1959
23	SLV 13	-1030	185	3088	0	0	-588
23	SLV 14	-1030	185	3088	0	0	-588
23	SLV 15	-1030	-185	3088	0	0	588
23	SLV 16	-1030	-185	3088	0	0	588
23	SLV FO 1	392	185	2645	0	0	-588
23	SLV FO 2	392	185	2645	0	0	-588
23	SLV FO 3	392	-185	2645	0	0	588
23	SLV FO 4	392	-185	2645	0	0	588
23	SLV FO 5	-106	617	2800	0	0	-1959
23	SLV FO 6	-106	617	2800	0	0	-1959
23	SLV FO 7	-106	-617	2800	0	0	1959
23	SLV FO 8	-106	-617	2800	0	0	1959
23	SLV FO 9	-533	617	2933	0	0	-1959
23	SLV FO 10	-533	617	2933	0	0	-1959
23	SLV FO 11	-533	-617	2933	0	0	1959
23	SLV FO 12	-533	-617	2933	0	0	1959
23	SLV FO 13	-1030	185	3088	0	0	-588
23	SLV FO 14	-1030	185	3088	0	0	-588
23	SLV FO 15	-1030	-185	3088	0	0	588
23	SLV FO 16	-1030	-185	3088	0	0	588
24	SLU 1	183	0	2688	0	0	0
24	SLU 2	-79	-79	1981	0	0	404
24	SLU 3	-311	-79	1540	0	0	404
24	SLU 4	-204	0	1952	0	0	0
24	SLU 5	-361	-47	1528	0	0	243
24	SLU 6	-2	-79	2194	0	0	404
24	SLU 7	-235	-79	1753	0	0	404
24	SLU 8	-127	0	2166	0	0	0
24	SLU 9	-285	-47	1742	0	0	243
24	SLU 10	336	0	3115	0	0	0
24	SLU 11	179	-48	2691	0	0	243
24	SLU 12	104	0	2673	0	0	0
24	SLU 13	-53	-48	2249	0	0	242

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
24	SLU 14	254	0	2890	0	0	0
24	SLU 15	-8	-79	2183	0	0	404
24	SLU 16	-240	-79	1742	0	0	404
24	SLU 17	-133	0	2154	0	0	0
24	SLU 18	-290	-47	1730	0	0	243
24	SLU 19	68	-79	2397	0	0	405
24	SLU 20	-164	-79	1955	0	0	404
24	SLU 21	-56	0	2368	0	0	0
24	SLU 22	-214	-47	1944	0	0	242
24	SLU 23	407	0	3317	0	0	0
24	SLU 24	250	-48	2893	0	0	243
24	SLU 25	175	0	2875	0	0	0
24	SLU 26	18	-48	2451	0	0	243
24	SLU 27	238	0	3494	0	0	0
24	SLU 28	-24	-79	2787	0	0	404
24	SLU 29	-256	-79	2346	0	0	404
24	SLU 30	-149	0	2758	0	0	0
24	SLU 31	-306	-47	2334	0	0	243
24	SLU 32	52	-79	3001	0	0	405
24	SLU 33	-180	-79	2559	0	0	404
24	SLU 34	-72	0	2972	0	0	0
24	SLU 35	-230	-47	2548	0	0	243
24	SLU 36	391	0	3921	0	0	0
24	SLU 37	234	-48	3497	0	0	243
24	SLU 38	159	0	3479	0	0	0
24	SLU 39	2	-48	3055	0	0	242
24	SLU 40	309	0	3696	0	0	0
24	SLU 41	47	-79	2990	0	0	404
24	SLU 42	-185	-79	2548	0	0	404
24	SLU 43	-78	0	2961	0	0	0
24	SLU 44	-235	-47	2537	0	0	243
24	SLU 45	123	-79	3203	0	0	405
24	SLU 46	-109	-79	2762	0	0	404
24	SLU 47	-2	0	3174	0	0	0
24	SLU 48	-159	-47	2750	0	0	242
24	SLU 49	462	0	4123	0	0	0
24	SLU 50	305	-48	3699	0	0	243
24	SLU 51	230	0	3682	0	0	0
24	SLU 52	73	-48	3258	0	0	243
24	SLE RA 1	230	0	2823	0	0	0
24	SLE RA 2	56	-53	2351	0	0	270
24	SLE RA 3	-99	-53	2057	0	0	269
24	SLE RA 4	-28	0	2332	0	0	0
24	SLE RA 5	-132	-32	2050	0	0	162
24	SLE RA 6	107	-53	2494	0	0	270
24	SLE RA 7	-48	-53	2199	0	0	269
24	SLE RA 8	23	0	2474	0	0	0
24	SLE RA 9	-81	-32	2192	0	0	162
24	SLE RA 10	332	0	3107	0	0	0
24	SLE RA 11	227	-32	2824	0	0	162
24	SLE RA 12	178	0	2813	0	0	0
24	SLE RA 13	73	-32	2530	0	0	162
24	SLE FR 1	230	0	2823	0	0	0
24	SLE FR 2	195	-11	2728	0	0	54
24	SLE FR 3	179	0	2724	0	0	0
24	SLE FR 4	251	0	2879	0	0	0
24	SLE QP 1	230	0	2823	0	0	0
24	SLD 1	411	66	2910	0	0	-399
24	SLD 2	411	66	2910	0	0	-399
24	SLD 3	363	-66	2898	0	0	400
24	SLD 4	363	-66	2898	0	0	400
24	SLD 5	357	221	2867	0	0	-1331
24	SLD 6	357	221	2867	0	0	-1331
24	SLD 7	197	-221	2827	0	0	1332
24	SLD 8	197	-221	2827	0	0	1332
24	SLD 9	263	221	2818	0	0	-1331
24	SLD 10	263	221	2818	0	0	-1331
24	SLD 11	103	-221	2778	0	0	1332
24	SLD 12	103	-221	2778	0	0	1332
24	SLD 13	98	66	2747	0	0	-399
24	SLD 14	98	66	2747	0	0	-399
24	SLD 15	50	-66	2735	0	0	400
24	SLD 16	50	-66	2735	0	0	400
24	SLV 1	693	171	3046	0	0	-1026
24	SLV 2	693	171	3046	0	0	-1026
24	SLV 3	570	-171	3015	0	0	1027
24	SLV 4	570	-171	3015	0	0	1027
24	SLV 5	556	569	2936	0	0	-3419
24	SLV 6	556	569	2936	0	0	-3419
24	SLV 7	145	-569	2834	0	0	3423
24	SLV 8	145	-569	2834	0	0	3423
24	SLV 9	315	569	2812	0	0	-3419
24	SLV 10	315	569	2812	0	0	-3419
24	SLV 11	-96	-569	2709	0	0	3423
24	SLV 12	-96	-569	2709	0	0	3423
24	SLV 13	-109	171	2630	0	0	-1026
24	SLV 14	-109	171	2630	0	0	-1026
24	SLV 15	-233	-171	2599	0	0	1027
24	SLV 16	-233	-171	2599	0	0	1027
24	SLV FO 1	693	171	3046	0	0	-1026
24	SLV FO 2	693	171	3046	0	0	-1026
24	SLV FO 3	570	-171	3015	0	0	1027
24	SLV FO 4	570	-171	3015	0	0	1027
24	SLV FO 5	556	569	2936	0	0	-3419
24	SLV FO 6	556	569	2936	0	0	-3419
24	SLV FO 7	145	-569	2834	0	0	3423
24	SLV FO 8	145	-569	2834	0	0	3423
24	SLV FO 9	315	569	2812	0	0	-3419
24	SLV FO 10	315	569	2812	0	0	-3419
24	SLV FO 11	-96	-569	2709	0	0	3423
24	SLV FO 12	-96	-569	2709	0	0	3423
24	SLV FO 13	-109	171	2630	0	0	-1026
24	SLV FO 14	-109	171	2630	0	0	-1026

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Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
24	SLV FO 15	-233	-171	2599	0	0	1027
24	SLV FO 16	-233	-171	2599	0	0	1027
25	SLU 1	-174	0	2530	0	0	0
25	SLU 2	1	-109	1997	0	0	242
25	SLU 3	38	-109	1698	0	0	242
25	SLU 4	-111	0	2032	0	0	0
25	SLU 5	-7	-66	1712	0	0	145
25	SLU 6	-61	-109	2163	0	0	242
25	SLU 7	-24	-109	1864	0	0	242
25	SLU 8	-174	0	2198	0	0	0
25	SLU 9	-69	-66	1878	0	0	145
25	SLU 10	-299	0	2861	0	0	0
25	SLU 11	-194	-66	2542	0	0	145
25	SLU 12	-261	0	2563	0	0	0
25	SLU 13	-156	-66	2243	0	0	145
25	SLU 14	-231	0	2685	0	0	0
25	SLU 15	-57	-109	2152	0	0	242
25	SLU 16	-19	-109	1853	0	0	242
25	SLU 17	-169	0	2187	0	0	0
25	SLU 18	-64	-66	1867	0	0	145
25	SLU 19	-119	-109	2318	0	0	242
25	SLU 20	-82	-109	2019	0	0	242
25	SLU 21	-231	0	2353	0	0	0
25	SLU 22	-127	-66	2033	0	0	145
25	SLU 23	-356	0	3016	0	0	0
25	SLU 24	-251	-66	2697	0	0	145
25	SLU 25	-319	0	2718	0	0	0
25	SLU 26	-214	-66	2398	0	0	145
25	SLU 27	-226	0	3289	0	0	0
25	SLU 28	-51	-109	2756	0	0	242
25	SLU 29	-14	-109	2457	0	0	242
25	SLU 30	-164	0	2791	0	0	0
25	SLU 31	-59	-66	2471	0	0	145
25	SLU 32	-114	-109	2922	0	0	242
25	SLU 33	-76	-109	2623	0	0	242
25	SLU 34	-226	0	2957	0	0	0
25	SLU 35	-121	-66	2637	0	0	145
25	SLU 36	-351	0	3620	0	0	0
25	SLU 37	-246	-65	3301	0	0	145
25	SLU 38	-313	0	3321	0	0	0
25	SLU 39	-209	-66	3002	0	0	145
25	SLU 40	-283	0	3444	0	0	0
25	SLU 41	-109	-109	2911	0	0	242
25	SLU 42	-71	-109	2612	0	0	242
25	SLU 43	-221	0	2946	0	0	0
25	SLU 44	-116	-66	2626	0	0	145
25	SLU 45	-171	-109	3077	0	0	242
25	SLU 46	-134	-109	2778	0	0	242
25	SLU 47	-284	0	3112	0	0	0
25	SLU 48	-179	-66	2792	0	0	145
25	SLU 49	-408	0	3775	0	0	0
25	SLU 50	-304	-66	3456	0	0	145
25	SLU 51	-371	0	3476	0	0	0
25	SLU 52	-266	-66	3157	0	0	145
25	SLE RA 1	-212	0	2633	0	0	0
25	SLE RA 2	-96	-73	2278	0	0	161
25	SLE RA 3	-71	-73	2079	0	0	161
25	SLE RA 4	-171	0	2301	0	0	0
25	SLE RA 5	-101	-44	2088	0	0	97
25	SLE RA 6	-137	-73	2388	0	0	161
25	SLE RA 7	-112	-73	2189	0	0	161
25	SLE RA 8	-212	0	2412	0	0	0
25	SLE RA 9	-142	-44	2199	0	0	97
25	SLE RA 10	-295	0	2854	0	0	0
25	SLE RA 11	-226	-44	2641	0	0	97
25	SLE RA 12	-271	0	2655	0	0	0
25	SLE RA 13	-201	-44	2442	0	0	97
25	SLE FR 1	-212	0	2633	0	0	0
25	SLE FR 2	-189	-15	2562	0	0	32
25	SLE FR 3	-204	0	2567	0	0	0
25	SLE FR 4	-229	0	2677	0	0	0
25	SLE QP 1	-212	0	2633	0	0	0
25	SLD 1	88	72	2535	0	0	-229
25	SLD 2	88	72	2535	0	0	-229
25	SLD 3	-2	-72	2568	0	0	228
25	SLD 4	-2	-72	2568	0	0	228
25	SLD 5	15	241	2554	0	0	-765
25	SLD 6	15	241	2554	0	0	-765
25	SLD 7	-286	-240	2663	0	0	761
25	SLD 8	-286	-240	2663	0	0	761
25	SLD 9	-138	240	2603	0	0	-765
25	SLD 10	-138	240	2603	0	0	-765
25	SLD 11	-439	-240	2712	0	0	761
25	SLD 12	-439	-240	2712	0	0	761
25	SLD 13	-422	72	2699	0	0	-229
25	SLD 14	-422	72	2699	0	0	-229
25	SLD 15	-512	-72	2731	0	0	228
25	SLD 16	-512	-72	2731	0	0	228
25	SLV 1	558	185	2381	0	0	-589
25	SLV 2	558	185	2381	0	0	-589
25	SLV 3	327	-185	2465	0	0	587
25	SLV 4	327	-185	2465	0	0	587
25	SLV 5	370	618	2430	0	0	-1964
25	SLV 6	370	618	2430	0	0	-1964
25	SLV 7	-402	-617	2710	0	0	1955
25	SLV 8	-402	-617	2710	0	0	1955
25	SLV 9	-22	618	2556	0	0	-1964
25	SLV 10	-22	618	2556	0	0	-1964
25	SLV 11	-794	-617	2836	0	0	1954
25	SLV 12	-794	-617	2836	0	0	1954

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
25	SLV 13	-751	185	2802	0	0	-589
25	SLV 14	-751	185	2802	0	0	-589
25	SLV 15	-982	-185	2886	0	0	586
25	SLV 16	-982	-185	2886	0	0	586
25	SLV FO 1	558	185	2381	0	0	-589
25	SLV FO 2	558	185	2381	0	0	-589
25	SLV FO 3	327	-185	2465	0	0	587
25	SLV FO 4	327	-185	2465	0	0	587
25	SLV FO 5	370	618	2430	0	0	-1964
25	SLV FO 6	370	618	2430	0	0	-1964
25	SLV FO 7	-402	-617	2710	0	0	1955
25	SLV FO 8	-402	-617	2710	0	0	1955
25	SLV FO 9	-22	618	2556	0	0	-1964
25	SLV FO 10	-22	618	2556	0	0	-1964
25	SLV FO 11	-794	-617	2836	0	0	1954
25	SLV FO 12	-794	-617	2836	0	0	1954
25	SLV FO 13	-751	185	2802	0	0	-589
25	SLV FO 14	-751	185	2802	0	0	-589
25	SLV FO 15	-982	-185	2886	0	0	586
25	SLV FO 16	-982	-185	2886	0	0	586
26	SLU 1	549	0	2725	0	0	0
26	SLU 2	-154	-411	1999	0	0	515
26	SLU 3	-851	-411	1547	0	0	515
26	SLU 4	-612	0	1972	0	0	0
26	SLU 5	-1033	-247	1536	0	0	309
26	SLU 6	75	-411	2218	0	0	515
26	SLU 7	-621	-411	1766	0	0	515
26	SLU 8	-382	0	2190	0	0	0
26	SLU 9	-804	-247	1755	0	0	309
26	SLU 10	1008	0	3162	0	0	0
26	SLU 11	586	-247	2726	0	0	309
26	SLU 12	312	0	2710	0	0	0
26	SLU 13	-110	-247	2275	0	0	309
26	SLU 14	762	0	2932	0	0	0
26	SLU 15	58	-411	2206	0	0	515
26	SLU 16	-638	-411	1754	0	0	515
26	SLU 17	-399	0	2179	0	0	0
26	SLU 18	-821	-247	1744	0	0	309
26	SLU 19	288	-412	2425	0	0	515
26	SLU 20	-408	-411	1973	0	0	515
26	SLU 21	-169	0	2397	0	0	0
26	SLU 22	-591	-247	1962	0	0	309
26	SLU 23	1220	0	3369	0	0	0
26	SLU 24	798	-247	2933	0	0	309
26	SLU 25	524	0	2917	0	0	0
26	SLU 26	102	-247	2482	0	0	309
26	SLU 27	714	0	3542	0	0	0
26	SLU 28	10	-411	2817	0	0	515
26	SLU 29	-686	-411	2365	0	0	515
26	SLU 30	-447	0	2789	0	0	0
26	SLU 31	-869	-247	2354	0	0	309
26	SLU 32	240	-411	3035	0	0	516
26	SLU 33	-456	-411	2583	0	0	515
26	SLU 34	-217	0	3008	0	0	0
26	SLU 35	-639	-247	2572	0	0	309
26	SLU 36	1172	0	3979	0	0	0
26	SLU 37	750	-247	3544	0	0	310
26	SLU 38	476	0	3527	0	0	0
26	SLU 39	54	-247	3092	0	0	309
26	SLU 40	926	0	3749	0	0	0
26	SLU 41	223	-411	3024	0	0	516
26	SLU 42	-473	-411	2572	0	0	515
26	SLU 43	-234	0	2996	0	0	0
26	SLU 44	-656	-247	2561	0	0	309
26	SLU 45	452	-412	3242	0	0	516
26	SLU 46	-244	-411	2790	0	0	515
26	SLU 47	-5	0	3215	0	0	0
26	SLU 48	-427	-247	2779	0	0	309
26	SLU 49	1385	0	4186	0	0	0
26	SLU 50	963	-247	3751	0	0	309
26	SLU 51	689	0	3734	0	0	0
26	SLU 52	267	-247	3299	0	0	309
26	SLE RA 1	691	0	2863	0	0	0
26	SLE RA 2	222	-274	2379	0	0	344
26	SLE RA 3	-242	-274	2078	0	0	343
26	SLE RA 4	-83	0	2361	0	0	0
26	SLE RA 5	-364	-165	2071	0	0	206
26	SLE RA 6	375	-274	2525	0	0	344
26	SLE RA 7	-89	-274	2223	0	0	343
26	SLE RA 8	70	0	2507	0	0	0
26	SLE RA 9	-211	-165	2216	0	0	206
26	SLE RA 10	997	0	3154	0	0	0
26	SLE RA 11	715	-165	2864	0	0	206
26	SLE RA 12	532	0	2853	0	0	0
26	SLE RA 13	251	-165	2563	0	0	206
26	SLE FR 1	691	0	2863	0	0	0
26	SLE FR 2	597	-55	2766	0	0	69
26	SLE FR 3	536	0	2762	0	0	0
26	SLE FR 4	752	0	2921	0	0	0
26	SLE QP 1	691	0	2863	0	0	0
26	SLD 1	1088	344	2940	0	0	-511
26	SLD 2	1088	344	2940	0	0	-511
26	SLD 3	1231	-344	2952	0	0	510
26	SLD 4	1231	-344	2952	0	0	510
26	SLD 5	592	1146	2867	0	0	-1703
26	SLD 6	592	1146	2867	0	0	-1703
26	SLD 7	1071	-1147	2908	0	0	1701
26	SLD 8	1071	-1147	2908	0	0	1701
26	SLD 9	310	1146	2817	0	0	-1703
26	SLD 10	310	1146	2817	0	0	-1703
26	SLD 11	790	-1147	2858	0	0	1701
26	SLD 12	790	-1147	2858	0	0	1701
26	SLD 13	150	344	2774	0	0	-511

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
26	SLD 14	150	344	2774	0	0	-511
26	SLD 15	294	-344	2786	0	0	511
26	SLD 16	294	-344	2786	0	0	511
26	SLV 1	1710	883	3060	0	0	-1313
26	SLV 2	1710	883	3060	0	0	-1313
26	SLV 3	2080	-884	3092	0	0	1311
26	SLV 4	2080	-884	3092	0	0	1311
26	SLV 5	436	2945	2874	0	0	-4374
26	SLV 6	436	2945	2874	0	0	-4374
26	SLV 7	1668	-2946	2980	0	0	4370
26	SLV 8	1668	-2946	2980	0	0	4370
26	SLV 9	-287	2945	2746	0	0	-4374
26	SLV 10	-287	2945	2746	0	0	-4374
26	SLV 11	946	-2946	2852	0	0	4370
26	SLV 12	946	-2946	2852	0	0	4370
26	SLV 13	-698	884	2634	0	0	-1312
26	SLV 14	-698	884	2634	0	0	-1312
26	SLV 15	-328	-884	2665	0	0	1311
26	SLV 16	-328	-884	2665	0	0	1311
26	SLV FO 1	1710	883	3060	0	0	-1313
26	SLV FO 2	1710	883	3060	0	0	-1313
26	SLV FO 3	2080	-884	3092	0	0	1311
26	SLV FO 4	2080	-884	3092	0	0	1311
26	SLV FO 5	436	2945	2874	0	0	-4374
26	SLV FO 6	436	2945	2874	0	0	-4374
26	SLV FO 7	1668	-2946	2980	0	0	4370
26	SLV FO 8	1668	-2946	2980	0	0	4370
26	SLV FO 9	-287	2945	2746	0	0	-4374
26	SLV FO 10	-287	2945	2746	0	0	-4374
26	SLV FO 11	946	-2946	2852	0	0	4370
26	SLV FO 12	946	-2946	2852	0	0	4370
26	SLV FO 13	-698	884	2634	0	0	-1312
26	SLV FO 14	-698	884	2634	0	0	-1312
26	SLV FO 15	-328	-884	2665	0	0	1311
26	SLV FO 16	-328	-884	2665	0	0	1311
27	SLU 1	-521	0	2563	0	0	0
27	SLU 2	163	-803	1998	0	0	531
27	SLU 3	276	-803	1692	0	0	531
27	SLU 4	-334	0	2054	0	0	0
27	SLU 5	77	-482	1714	0	0	318
27	SLU 6	-24	-803	2168	0	0	531
27	SLU 7	88	-803	1862	0	0	531
27	SLU 8	-522	0	2223	0	0	0
27	SLU 9	-111	-482	1884	0	0	318
27	SLU 10	-896	0	2903	0	0	0
27	SLU 11	-486	-482	2563	0	0	319
27	SLU 12	-784	0	2597	0	0	0
27	SLU 13	-373	-482	2258	0	0	319
27	SLU 14	-694	0	2722	0	0	0
27	SLU 15	-10	-803	2157	0	0	531
27	SLU 16	103	-803	1851	0	0	531
27	SLU 17	-507	0	2212	0	0	0
27	SLU 18	-96	-482	1873	0	0	318
27	SLU 19	-197	-803	2326	0	0	531
27	SLU 20	-84	-803	2020	0	0	531
27	SLU 21	-694	0	2382	0	0	0
27	SLU 22	-283	-482	2043	0	0	319
27	SLU 23	-1069	0	3061	0	0	0
27	SLU 24	-658	-482	2722	0	0	319
27	SLU 25	-956	0	2755	0	0	0
27	SLU 26	-546	-482	2416	0	0	319
27	SLU 27	-678	0	3332	0	0	0
27	SLU 28	7	-803	2767	0	0	531
27	SLU 29	119	-803	2461	0	0	531
27	SLU 30	-491	0	2823	0	0	0
27	SLU 31	-80	-482	2483	0	0	318
27	SLU 32	-181	-803	2937	0	0	531
27	SLU 33	-68	-803	2631	0	0	531
27	SLU 34	-678	0	2992	0	0	0
27	SLU 35	-267	-482	2653	0	0	318
27	SLU 36	-1053	0	3672	0	0	0
27	SLU 37	-642	-482	3332	0	0	319
27	SLU 38	-940	0	3366	0	0	0
27	SLU 39	-529	-482	3027	0	0	319
27	SLU 40	-850	0	3491	0	0	0
27	SLU 41	-166	-803	2926	0	0	531
27	SLU 42	-53	-803	2620	0	0	531
27	SLU 43	-663	0	2981	0	0	0
27	SLU 44	-252	-482	2642	0	0	318
27	SLU 45	-354	-803	3095	0	0	531
27	SLU 46	-241	-803	2789	0	0	531
27	SLU 47	-851	0	3151	0	0	0
27	SLU 48	-440	-482	2812	0	0	319
27	SLU 49	-1225	0	3830	0	0	0
27	SLU 50	-815	-482	3491	0	0	319
27	SLU 51	-1113	0	3524	0	0	0
27	SLU 52	-702	-482	3185	0	0	319
27	SLE RA 1	-636	0	2669	0	0	0
27	SLE RA 2	-180	-535	2292	0	0	354
27	SLE RA 3	-105	-536	2088	0	0	354
27	SLE RA 4	-512	0	2329	0	0	0
27	SLE RA 5	-238	-321	2103	0	0	212
27	SLE RA 6	-305	-535	2405	0	0	354
27	SLE RA 7	-230	-536	2201	0	0	354
27	SLE RA 8	-637	0	2442	0	0	0
27	SLE RA 9	-363	-321	2216	0	0	212
27	SLE RA 10	-886	0	2895	0	0	0
27	SLE RA 11	-613	-321	2669	0	0	212
27	SLE RA 12	-811	0	2691	0	0	0
27	SLE RA 13	-538	-321	2465	0	0	212

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
27	SLE FR 1	-636	0	2669	0	0	0
27	SLE FR 2	-545	-107	2594	0	0	71
27	SLE FR 3	-611	0	2601	0	0	0
27	SLE FR 4	-686	0	2714	0	0	0
27	SLE QP 1	-636	0	2669	0	0	0
27	SLD 1	-7	346	2602	0	0	-292
27	SLD 2	-7	346	2602	0	0	-292
27	SLD 3	263	-346	2568	0	0	293
27	SLD 4	263	-346	2568	0	0	293
27	SLD 5	-857	1152	2700	0	0	-972
27	SLD 6	-857	1152	2700	0	0	-972
27	SLD 7	44	-1154	2588	0	0	977
27	SLD 8	44	-1154	2588	0	0	977
27	SLD 9	-1316	1152	2750	0	0	-972
27	SLD 10	-1316	1152	2750	0	0	-972
27	SLD 11	-415	-1154	2638	0	0	977
27	SLD 12	-415	-1154	2638	0	0	977
27	SLD 13	-1535	345	2770	0	0	-292
27	SLD 14	-1535	345	2770	0	0	-292
27	SLD 15	-1265	-346	2736	0	0	293
27	SLD 16	-1265	-346	2736	0	0	293
27	SLV 1	980	888	2497	0	0	-750
27	SLV 2	980	888	2497	0	0	-750
27	SLV 3	1674	-889	2410	0	0	753
27	SLV 4	1674	-889	2410	0	0	753
27	SLV 5	-1204	2959	2748	0	0	-2498
27	SLV 6	-1204	2959	2748	0	0	-2498
27	SLV 7	1110	-2964	2461	0	0	2510
27	SLV 8	1110	-2964	2461	0	0	2510
27	SLV 9	-2382	2959	2877	0	0	-2498
27	SLV 10	-2382	2959	2877	0	0	-2498
27	SLV 11	-67	-2964	2590	0	0	2510
27	SLV 12	-67	-2964	2590	0	0	2510
27	SLV 13	-2946	888	2927	0	0	-749
27	SLV 14	-2946	888	2927	0	0	-749
27	SLV 15	-2252	-889	2841	0	0	753
27	SLV 16	-2252	-889	2841	0	0	753
27	SLV FO 1	980	888	2497	0	0	-750
27	SLV FO 2	980	888	2497	0	0	-750
27	SLV FO 3	1674	-889	2410	0	0	753
27	SLV FO 4	1674	-889	2410	0	0	753
27	SLV FO 5	-1204	2959	2748	0	0	-2498
27	SLV FO 6	-1204	2959	2748	0	0	-2498
27	SLV FO 7	1110	-2964	2461	0	0	2510
27	SLV FO 8	1110	-2964	2461	0	0	2510
27	SLV FO 9	-2382	2959	2877	0	0	-2498
27	SLV FO 10	-2382	2959	2877	0	0	-2498
27	SLV FO 11	-67	-2964	2590	0	0	2510
27	SLV FO 12	-67	-2964	2590	0	0	2510
27	SLV FO 13	-2946	888	2927	0	0	-749
27	SLV FO 14	-2946	888	2927	0	0	-749
27	SLV FO 15	-2252	-889	2841	0	0	753
27	SLV FO 16	-2252	-889	2841	0	0	753
28	SLU 1	603	0	2862	0	0	0
28	SLU 2	-686	-410	1456	0	0	517
28	SLU 3	-1743	-410	600	0	0	517
28	SLU 4	-1157	0	1436	0	0	0
28	SLU 5	-1931	-246	592	0	0	310
28	SLU 6	-287	-410	1880	0	0	517
28	SLU 7	-1344	-410	1024	0	0	517
28	SLU 8	-758	0	1860	0	0	0
28	SLU 9	-1532	-246	1016	0	0	310
28	SLU 10	1401	0	3711	0	0	0
28	SLU 11	627	-246	2867	0	0	311
28	SLU 12	345	0	2855	0	0	0
28	SLU 13	-429	-246	2011	0	0	310
28	SLU 14	971	0	3264	0	0	0
28	SLU 15	-318	-410	1858	0	0	517
28	SLU 16	-1374	-410	1002	0	0	517
28	SLU 17	-789	0	1838	0	0	0
28	SLU 18	-1563	-246	994	0	0	310
28	SLU 19	81	-410	2282	0	0	517
28	SLU 20	-975	-410	1426	0	0	517
28	SLU 21	-390	0	2262	0	0	0
28	SLU 22	-1164	-246	1418	0	0	310
28	SLU 23	1769	0	4112	0	0	0
28	SLU 24	996	-246	3268	0	0	311
28	SLU 25	713	0	3257	0	0	0
28	SLU 26	-61	-246	2413	0	0	310
28	SLU 27	784	0	3721	0	0	0
28	SLU 28	-506	-410	2314	0	0	517
28	SLU 29	-1562	-410	1459	0	0	517
28	SLU 30	-977	0	2295	0	0	0
28	SLU 31	-1750	-246	1451	0	0	310
28	SLU 32	-107	-410	2738	0	0	517
28	SLU 33	-1163	-410	1883	0	0	517
28	SLU 34	-578	0	2719	0	0	0
28	SLU 35	-1351	-246	1875	0	0	310
28	SLU 36	1582	0	4569	0	0	0
28	SLU 37	808	-246	3725	0	0	311
28	SLU 38	525	0	3714	0	0	0
28	SLU 39	-248	-246	2870	0	0	310
28	SLU 40	1152	0	4123	0	0	0
28	SLU 41	-137	-410	2716	0	0	517
28	SLU 42	-1194	-410	1861	0	0	517
28	SLU 43	-608	0	2697	0	0	0
28	SLU 44	-1382	-246	1853	0	0	310
28	SLU 45	262	-410	3140	0	0	518
28	SLU 46	-795	-410	2285	0	0	517
28	SLU 47	-209	0	3121	0	0	0
28	SLU 48	-983	-246	2277	0	0	310
28	SLU 49	1950	0	4971	0	0	0
28	SLU 50	1177	-246	4127	0	0	311

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
28	SLU 51	894	0	4115	0	0	0
28	SLU 52	120	-246	3271	0	0	310
28	SLE RA 1	848	0	3130	0	0	0
28	SLE RA 2	-11	-273	2192	0	0	345
28	SLE RA 3	-715	-273	1622	0	0	345
28	SLE RA 4	-325	0	2179	0	0	0
28	SLE RA 5	-841	-164	1617	0	0	207
28	SLE RA 6	255	-273	2475	0	0	345
28	SLE RA 7	-449	-273	1905	0	0	345
28	SLE RA 8	-59	0	2462	0	0	0
28	SLE RA 9	-575	-164	1900	0	0	207
28	SLE RA 10	1380	0	3696	0	0	0
28	SLE RA 11	865	-164	3133	0	0	207
28	SLE RA 12	676	0	3125	0	0	0
28	SLE RA 13	161	-164	2563	0	0	207
28	SLE FR 1	848	0	3130	0	0	0
28	SLE FR 2	677	-55	2943	0	0	69
28	SLE FR 3	614	0	2940	0	0	0
28	SLE FR 4	955	0	3243	0	0	0
28	SLE QP 1	848	0	3130	0	0	0
28	SLD 1	1371	344	3220	0	0	-511
28	SLD 2	1371	344	3220	0	0	-511
28	SLD 3	1371	-344	3220	0	0	511
28	SLD 4	1371	-344	3220	0	0	511
28	SLD 5	1005	1147	3157	0	0	-1704
28	SLD 6	1005	1147	3157	0	0	-1704
28	SLD 7	1005	-1147	3157	0	0	1704
28	SLD 8	1005	-1147	3157	0	0	1704
28	SLD 9	691	1147	3103	0	0	-1704
28	SLD 10	691	1147	3103	0	0	-1704
28	SLD 11	691	-1147	3103	0	0	1704
28	SLD 12	691	-1147	3103	0	0	1704
28	SLD 13	326	344	3040	0	0	-511
28	SLD 14	326	344	3040	0	0	-511
28	SLD 15	326	-344	3040	0	0	511
28	SLD 16	326	-344	3040	0	0	511
28	SLV 1	2190	884	3362	0	0	-1313
28	SLV 2	2190	884	3362	0	0	-1313
28	SLV 3	2190	-884	3362	0	0	1313
28	SLV 4	2190	-884	3362	0	0	1313
28	SLV 5	1250	2947	3200	0	0	-4376
28	SLV 6	1250	2947	3200	0	0	-4376
28	SLV 7	1250	-2947	3200	0	0	4376
28	SLV 8	1250	-2947	3200	0	0	4376
28	SLV 9	445	2947	3061	0	0	-4376
28	SLV 10	445	2947	3061	0	0	-4376
28	SLV 11	445	-2947	3061	0	0	4376
28	SLV 12	445	-2947	3061	0	0	4376
28	SLV 13	-494	884	2899	0	0	-1313
28	SLV 14	-494	884	2899	0	0	-1313
28	SLV 15	-494	-884	2899	0	0	1313
28	SLV 16	-494	-884	2899	0	0	1313
28	SLV FO 1	2190	884	3362	0	0	-1313
28	SLV FO 2	2190	884	3362	0	0	-1313
28	SLV FO 3	2190	-884	3362	0	0	1313
28	SLV FO 4	2190	-884	3362	0	0	1313
28	SLV FO 5	1250	2947	3200	0	0	-4376
28	SLV FO 6	1250	2947	3200	0	0	-4376
28	SLV FO 7	1250	-2947	3200	0	0	4376
28	SLV FO 8	1250	-2947	3200	0	0	4376
28	SLV FO 9	445	2947	3061	0	0	-4376
28	SLV FO 10	445	2947	3061	0	0	-4376
28	SLV FO 11	445	-2947	3061	0	0	4376
28	SLV FO 12	445	-2947	3061	0	0	4376
28	SLV FO 13	-494	884	2899	0	0	-1313
28	SLV FO 14	-494	884	2899	0	0	-1313
28	SLV FO 15	-494	-884	2899	0	0	1313
28	SLV FO 16	-494	-884	2899	0	0	1313
29	SLU 1	-658	0	2688	0	0	0
29	SLU 2	911	-524	1533	0	0	310
29	SLU 3	1562	-524	870	0	0	310
29	SLU 4	426	0	1583	0	0	0
29	SLU 5	1368	-315	890	0	0	186
29	SLU 6	429	-524	1886	0	0	310
29	SLU 7	1079	-524	1223	0	0	310
29	SLU 8	-57	0	1936	0	0	0
29	SLU 9	885	-315	1243	0	0	186
29	SLU 10	-1624	0	3393	0	0	0
29	SLU 11	-682	-314	2700	0	0	186
29	SLU 12	-974	0	2731	0	0	0
29	SLU 13	-32	-315	2038	0	0	186
29	SLU 14	-1107	0	3018	0	0	0
29	SLU 15	463	-524	1863	0	0	310
29	SLU 16	1113	-524	1200	0	0	310
29	SLU 17	-22	0	1913	0	0	0
29	SLU 18	919	-315	1220	0	0	186
29	SLU 19	-20	-524	2216	0	0	310
29	SLU 20	630	-524	1553	0	0	310
29	SLU 21	-505	0	2266	0	0	0
29	SLU 22	436	-315	1573	0	0	186
29	SLU 23	-2072	0	3723	0	0	0
29	SLU 24	-1131	-314	3030	0	0	186
29	SLU 25	-1422	0	3061	0	0	0
29	SLU 26	-480	-315	2368	0	0	186
29	SLU 27	-856	0	3495	0	0	0
29	SLU 28	714	-524	2340	0	0	310
29	SLU 29	1364	-524	1677	0	0	310
29	SLU 30	229	0	2390	0	0	0
29	SLU 31	1170	-315	1697	0	0	186
29	SLU 32	231	-524	2692	0	0	310

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
29	SLU 33	881	-524	2029	0	0	310
29	SLU 34	-254	0	2743	0	0	0
29	SLU 35	687	-315	2050	0	0	186
29	SLU 36	-1822	0	4200	0	0	0
29	SLU 37	-880	-314	3507	0	0	186
29	SLU 38	-1171	0	3537	0	0	0
29	SLU 39	-229	-315	2844	0	0	186
29	SLU 40	-1304	0	3825	0	0	0
29	SLU 41	265	-524	2670	0	0	310
29	SLU 42	916	-524	2007	0	0	310
29	SLU 43	-220	0	2720	0	0	0
29	SLU 44	722	-315	2027	0	0	186
29	SLU 45	-217	-524	3022	0	0	310
29	SLU 46	433	-524	2359	0	0	310
29	SLU 47	-703	0	3073	0	0	0
29	SLU 48	239	-315	2380	0	0	186
29	SLU 49	-2270	0	4530	0	0	0
29	SLU 50	-1328	-314	3837	0	0	186
29	SLU 51	-1619	0	3867	0	0	0
29	SLU 52	-678	-315	3174	0	0	186
29	SLE RA 1	-957	0	2908	0	0	0
29	SLE RA 2	89	-349	2138	0	0	207
29	SLE RA 3	523	-350	1696	0	0	207
29	SLE RA 4	-234	0	2172	0	0	0
29	SLE RA 5	393	-210	1710	0	0	124
29	SLE RA 6	-233	-349	2373	0	0	207
29	SLE RA 7	201	-350	1931	0	0	207
29	SLE RA 8	-556	0	2407	0	0	0
29	SLE RA 9	71	-210	1945	0	0	124
29	SLE RA 10	-1601	0	3378	0	0	0
29	SLE RA 11	-973	-210	2916	0	0	124
29	SLE RA 12	-1167	0	2936	0	0	0
29	SLE RA 13	-540	-210	2474	0	0	124
29	SLE FR 1	-957	0	2908	0	0	0
29	SLE FR 2	-748	-70	2754	0	0	41
29	SLE FR 3	-813	0	2761	0	0	0
29	SLE FR 4	-1086	0	3002	0	0	0
29	SLE QP 1	-957	0	2908	0	0	0
29	SLD 1	-127	346	2820	0	0	-292
29	SLD 2	-127	346	2820	0	0	-292
29	SLD 3	-127	-346	2820	0	0	292
29	SLD 4	-127	-346	2820	0	0	292
29	SLD 5	-709	1153	2882	0	0	-974
29	SLD 6	-709	1153	2882	0	0	-974
29	SLD 7	-709	-1153	2882	0	0	974
29	SLD 8	-709	-1153	2882	0	0	974
29	SLD 9	-1207	1153	2935	0	0	-974
29	SLD 10	-1207	1153	2935	0	0	-974
29	SLD 11	-1207	-1153	2935	0	0	974
29	SLD 12	-1207	-1153	2935	0	0	974
29	SLD 13	-1788	346	2997	0	0	-292
29	SLD 14	-1788	346	2997	0	0	-292
29	SLD 15	-1788	-346	2997	0	0	292
29	SLD 16	-1788	-346	2997	0	0	292
29	SLV 1	1175	888	2681	0	0	-751
29	SLV 2	1175	888	2681	0	0	-751
29	SLV 3	1175	-888	2681	0	0	751
29	SLV 4	1175	-888	2681	0	0	751
29	SLV 5	-318	2962	2840	0	0	-2503
29	SLV 6	-318	2962	2840	0	0	-2503
29	SLV 7	-318	-2962	2840	0	0	2503
29	SLV 8	-318	-2962	2840	0	0	2503
29	SLV 9	-1597	2962	2976	0	0	-2503
29	SLV 10	-1597	2962	2976	0	0	-2503
29	SLV 11	-1597	-2962	2976	0	0	2503
29	SLV 12	-1597	-2962	2976	0	0	2503
29	SLV 13	-3090	889	3135	0	0	-751
29	SLV 14	-3090	889	3135	0	0	-751
29	SLV 15	-3090	-889	3135	0	0	751
29	SLV 16	-3090	-889	3135	0	0	751
29	SLV FO 1	1175	888	2681	0	0	-751
29	SLV FO 2	1175	888	2681	0	0	-751
29	SLV FO 3	1175	-888	2681	0	0	751
29	SLV FO 4	1175	-888	2681	0	0	751
29	SLV FO 5	-318	2962	2840	0	0	-2503
29	SLV FO 6	-318	2962	2840	0	0	-2503
29	SLV FO 7	-318	-2962	2840	0	0	2503
29	SLV FO 8	-318	-2962	2840	0	0	2503
29	SLV FO 9	-1597	2962	2976	0	0	-2503
29	SLV FO 10	-1597	2962	2976	0	0	-2503
29	SLV FO 11	-1597	-2962	2976	0	0	2503
29	SLV FO 12	-1597	-2962	2976	0	0	2503
29	SLV FO 13	-3090	889	3135	0	0	-751
29	SLV FO 14	-3090	889	3135	0	0	-751
29	SLV FO 15	-3090	-889	3135	0	0	751
29	SLV FO 16	-3090	-889	3135	0	0	751
30	SLU 1	549	0	2725	0	0	0
30	SLU 2	-237	-409	2002	0	0	517
30	SLU 3	-933	-409	1550	0	0	516
30	SLU 4	-612	0	1972	0	0	0
30	SLU 5	-1083	-246	1538	0	0	310
30	SLU 6	-7	-410	2220	0	0	517
30	SLU 7	-704	-409	1768	0	0	516
30	SLU 8	-382	0	2190	0	0	0
30	SLU 9	-854	-246	1756	0	0	310
30	SLU 10	1008	0	3162	0	0	0
30	SLU 11	536	-246	2728	0	0	310
30	SLU 12	312	0	2710	0	0	0
30	SLU 13	-160	-246	2276	0	0	310
30	SLU 14	762	0	2932	0	0	0
30	SLU 15	-24	-410	2209	0	0	517
30	SLU 16	-720	-409	1757	0	0	516
30	SLU 17	-399	0	2179	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
30	SLU 18	-870	-246	1745	0	0	310
30	SLU 19	205	-410	2427	0	0	517
30	SLU 20	-491	-409	1975	0	0	516
30	SLU 21	-169	0	2397	0	0	0
30	SLU 22	-641	-246	1963	0	0	310
30	SLU 23	1220	0	3369	0	0	0
30	SLU 24	749	-246	2935	0	0	311
30	SLU 25	524	0	2917	0	0	0
30	SLU 26	53	-246	2483	0	0	310
30	SLU 27	714	0	3542	0	0	0
30	SLU 28	-72	-409	2819	0	0	517
30	SLU 29	-768	-409	2367	0	0	516
30	SLU 30	-447	0	2789	0	0	0
30	SLU 31	-918	-246	2355	0	0	310
30	SLU 32	157	-410	3037	0	0	517
30	SLU 33	-539	-409	2586	0	0	516
30	SLU 34	-217	0	3008	0	0	0
30	SLU 35	-689	-246	2574	0	0	310
30	SLU 36	1172	0	3979	0	0	0
30	SLU 37	701	-246	3545	0	0	311
30	SLU 38	476	0	3527	0	0	0
30	SLU 39	5	-246	3093	0	0	310
30	SLU 40	926	0	3749	0	0	0
30	SLU 41	141	-410	3026	0	0	517
30	SLU 42	-556	-409	2574	0	0	516
30	SLU 43	-234	0	2996	0	0	0
30	SLU 44	-706	-246	2562	0	0	310
30	SLU 45	370	-410	3245	0	0	517
30	SLU 46	-326	-409	2793	0	0	517
30	SLU 47	-5	0	3215	0	0	0
30	SLU 48	-476	-246	2781	0	0	310
30	SLU 49	1385	0	4186	0	0	0
30	SLU 50	914	-246	3752	0	0	311
30	SLU 51	689	0	3734	0	0	0
30	SLU 52	218	-246	3300	0	0	310
30	SLE RA 1	691	0	2863	0	0	0
30	SLE RA 2	167	-273	2381	0	0	345
30	SLE RA 3	-297	-273	2080	0	0	344
30	SLE RA 4	-83	0	2361	0	0	0
30	SLE RA 5	-397	-164	2072	0	0	207
30	SLE RA 6	320	-273	2526	0	0	345
30	SLE RA 7	-144	-273	2225	0	0	344
30	SLE RA 8	70	0	2507	0	0	0
30	SLE RA 9	-244	-164	2217	0	0	207
30	SLE RA 10	997	0	3154	0	0	0
30	SLE RA 11	682	-164	2865	0	0	207
30	SLE RA 12	532	0	2853	0	0	0
30	SLE RA 13	218	-164	2564	0	0	207
30	SLE FR 1	691	0	2863	0	0	0
30	SLE FR 2	586	-55	2766	0	0	69
30	SLE FR 3	536	0	2762	0	0	0
30	SLE FR 4	752	0	2921	0	0	0
30	SLE QP 1	691	0	2863	0	0	0
30	SLD 1	1231	344	2952	0	0	-510
30	SLD 2	1231	344	2952	0	0	-510
30	SLD 3	1088	-344	2940	0	0	511
30	SLD 4	1088	-344	2940	0	0	511
30	SLD 5	1071	1147	2908	0	0	-1701
30	SLD 6	1071	1147	2908	0	0	-1701
30	SLD 7	592	-1146	2867	0	0	1703
30	SLD 8	592	-1146	2867	0	0	1703
30	SLD 9	790	1147	2858	0	0	-1701
30	SLD 10	790	1147	2858	0	0	-1701
30	SLD 11	310	-1146	2817	0	0	1703
30	SLD 12	310	-1146	2817	0	0	1703
30	SLD 13	294	344	2786	0	0	-511
30	SLD 14	294	344	2786	0	0	-511
30	SLD 15	150	-344	2774	0	0	511
30	SLD 16	150	-344	2774	0	0	511
30	SLV 1	2080	884	3092	0	0	-1311
30	SLV 2	2080	884	3092	0	0	-1311
30	SLV 3	1710	-883	3060	0	0	1313
30	SLV 4	1710	-883	3060	0	0	1313
30	SLV 5	1668	2946	2980	0	0	-4370
30	SLV 6	1668	2946	2980	0	0	-4370
30	SLV 7	436	-2945	2874	0	0	4374
30	SLV 8	436	-2945	2874	0	0	4374
30	SLV 9	946	2946	2852	0	0	-4370
30	SLV 10	946	2946	2852	0	0	-4370
30	SLV 11	-287	-2945	2746	0	0	4374
30	SLV 12	-287	-2945	2746	0	0	4374
30	SLV 13	-328	884	2665	0	0	-1311
30	SLV 14	-328	884	2665	0	0	-1311
30	SLV 15	-698	-884	2634	0	0	1312
30	SLV 16	-698	-884	2634	0	0	1312
30	SLV FO 1	2080	884	3092	0	0	-1311
30	SLV FO 2	2080	884	3092	0	0	-1311
30	SLV FO 3	1710	-883	3060	0	0	1313
30	SLV FO 4	1710	-883	3060	0	0	1313
30	SLV FO 5	1668	2946	2980	0	0	-4370
30	SLV FO 6	1668	2946	2980	0	0	-4370
30	SLV FO 7	436	-2945	2874	0	0	4374
30	SLV FO 8	436	-2945	2874	0	0	4374
30	SLV FO 9	946	2946	2852	0	0	-4370
30	SLV FO 10	946	2946	2852	0	0	-4370
30	SLV FO 11	-287	-2945	2746	0	0	4374
30	SLV FO 12	-287	-2945	2746	0	0	4374
30	SLV FO 13	-328	884	2665	0	0	-1311
30	SLV FO 14	-328	884	2665	0	0	-1311
30	SLV FO 15	-698	-884	2634	0	0	1312

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
30	SLV FO 16	-698	-884	2634	0	0	1312
31	SLU 1	-521	0	2563	0	0	0
31	SLU 2	3	-524	2018	0	0	309
31	SLU 3	115	-524	1712	0	0	309
31	SLU 4	-334	0	2054	0	0	0
31	SLU 5	-20	-314	1726	0	0	185
31	SLU 6	-184	-524	2188	0	0	309
31	SLU 7	-72	-524	1882	0	0	309
31	SLU 8	-522	0	2223	0	0	0
31	SLU 9	-207	-314	1896	0	0	185
31	SLU 10	-896	0	2903	0	0	0
31	SLU 11	-581	-314	2575	0	0	186
31	SLU 12	-784	0	2597	0	0	0
31	SLU 13	-469	-314	2270	0	0	186
31	SLU 14	-694	0	2722	0	0	0
31	SLU 15	-170	-524	2177	0	0	309
31	SLU 16	-57	-524	1871	0	0	309
31	SLU 17	-507	0	2212	0	0	0
31	SLU 18	-192	-314	1885	0	0	185
31	SLU 19	-357	-523	2346	0	0	309
31	SLU 20	-245	-524	2040	0	0	309
31	SLU 21	-694	0	2382	0	0	0
31	SLU 22	-380	-314	2055	0	0	185
31	SLU 23	-1069	0	3061	0	0	0
31	SLU 24	-754	-314	2734	0	0	186
31	SLU 25	-956	0	2755	0	0	0
31	SLU 26	-642	-314	2428	0	0	186
31	SLU 27	-678	0	3332	0	0	0
31	SLU 28	-153	-524	2787	0	0	309
31	SLU 29	-41	-524	2481	0	0	309
31	SLU 30	-491	0	2823	0	0	0
31	SLU 31	-176	-314	2495	0	0	185
31	SLU 32	-341	-523	2957	0	0	309
31	SLU 33	-229	-524	2651	0	0	309
31	SLU 34	-678	0	2992	0	0	0
31	SLU 35	-363	-314	2665	0	0	185
31	SLU 36	-1053	0	3672	0	0	0
31	SLU 37	-738	-314	3344	0	0	186
31	SLU 38	-940	0	3366	0	0	0
31	SLU 39	-626	-314	3039	0	0	186
31	SLU 40	-850	0	3491	0	0	0
31	SLU 41	-326	-524	2946	0	0	309
31	SLU 42	-214	-524	2640	0	0	309
31	SLU 43	-663	0	2981	0	0	0
31	SLU 44	-349	-314	2654	0	0	185
31	SLU 45	-513	-523	3115	0	0	309
31	SLU 46	-401	-524	2809	0	0	309
31	SLU 47	-851	0	3151	0	0	0
31	SLU 48	-536	-314	2824	0	0	185
31	SLU 49	-1225	0	3830	0	0	0
31	SLU 50	-911	-314	3503	0	0	186
31	SLU 51	-1113	0	3524	0	0	0
31	SLU 52	-798	-314	3197	0	0	186
31	SLE RA 1	-636	0	2669	0	0	0
31	SLE RA 2	-287	-349	2305	0	0	206
31	SLE RA 3	-212	-349	2102	0	0	206
31	SLE RA 4	-512	0	2329	0	0	0
31	SLE RA 5	-302	-209	2111	0	0	124
31	SLE RA 6	-412	-349	2419	0	0	206
31	SLE RA 7	-337	-349	2215	0	0	206
31	SLE RA 8	-637	0	2442	0	0	0
31	SLE RA 9	-427	-209	2224	0	0	124
31	SLE RA 10	-886	0	2895	0	0	0
31	SLE RA 11	-677	-209	2677	0	0	124
31	SLE RA 12	-811	0	2691	0	0	0
31	SLE RA 13	-602	-209	2473	0	0	124
31	SLE FR 1	-636	0	2669	0	0	0
31	SLE FR 2	-566	-70	2596	0	0	41
31	SLE FR 3	-611	0	2601	0	0	0
31	SLE FR 4	-686	0	2714	0	0	0
31	SLE QP 1	-636	0	2669	0	0	0
31	SLD 1	263	346	2568	0	0	-293
31	SLD 2	263	346	2568	0	0	-293
31	SLD 3	-7	-346	2602	0	0	292
31	SLD 4	-7	-346	2602	0	0	292
31	SLD 5	44	1154	2588	0	0	-977
31	SLD 6	44	1154	2588	0	0	-977
31	SLD 7	-857	-1152	2700	0	0	972
31	SLD 8	-857	-1152	2700	0	0	972
31	SLD 9	-415	1154	2638	0	0	-977
31	SLD 10	-415	1154	2638	0	0	-977
31	SLD 11	-1316	-1152	2750	0	0	972
31	SLD 12	-1316	-1152	2750	0	0	972
31	SLD 13	-1265	346	2736	0	0	-293
31	SLD 14	-1265	346	2736	0	0	-293
31	SLD 15	-1535	-345	2770	0	0	292
31	SLD 16	-1535	-345	2770	0	0	292
31	SLV 1	1674	889	2410	0	0	-753
31	SLV 2	1674	889	2410	0	0	-753
31	SLV 3	980	-888	2497	0	0	750
31	SLV 4	980	-888	2497	0	0	750
31	SLV 5	1110	2964	2461	0	0	-2510
31	SLV 6	1110	2964	2461	0	0	-2510
31	SLV 7	-1204	-2959	2748	0	0	2498
31	SLV 8	-1204	-2959	2748	0	0	2498
31	SLV 9	-67	2964	2590	0	0	-2510
31	SLV 10	-67	2964	2590	0	0	-2510
31	SLV 11	-2382	-2959	2877	0	0	2498
31	SLV 12	-2382	-2959	2877	0	0	2498
31	SLV 13	-2252	889	2841	0	0	-753
31	SLV 14	-2252	889	2841	0	0	-753
31	SLV 15	-2946	-888	2927	0	0	749
31	SLV 16	-2946	-888	2927	0	0	749

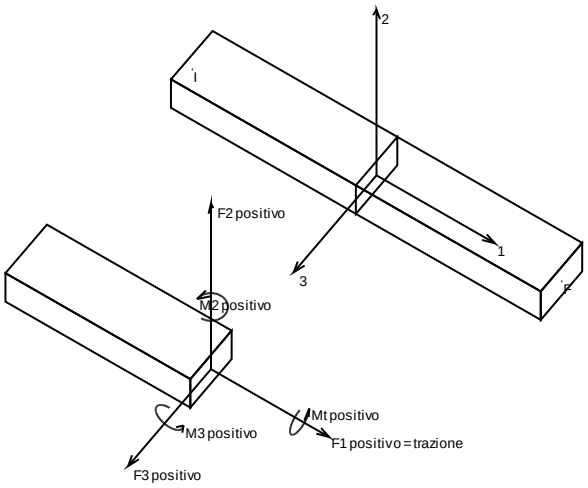
Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	n.br.	x	y	z	x	y	z
31	SLV FO 1	1674	889	2410	0	0	-753
31	SLV FO 2	1674	889	2410	0	0	-753
31	SLV FO 3	980	-888	2497	0	0	750
31	SLV FO 4	980	-888	2497	0	0	750
31	SLV FO 5	1110	2964	2461	0	0	-2510
31	SLV FO 6	1110	2964	2461	0	0	-2510
31	SLV FO 7	-1204	-2959	2748	0	0	2498
31	SLV FO 8	-1204	-2959	2748	0	0	2498
31	SLV FO 9	-67	2964	2590	0	0	-2510
31	SLV FO 10	-67	2964	2590	0	0	-2510
31	SLV FO 11	-2382	-2959	2877	0	0	2498
31	SLV FO 12	-2382	-2959	2877	0	0	2498
31	SLV FO 13	-2252	889	2841	0	0	-753
31	SLV FO 14	-2252	889	2841	0	0	-753
31	SLV FO 15	-2946	-888	2927	0	0	749
31	SLV FO 16	-2946	-888	2927	0	0	749

43.3 Sollecitazioni aste

43.3.1 Convenzioni di segno aste

Le abbreviazioni relative alle sollecitazioni sugli elementi aste sono da intendersi:

- F1 (N): sforzo normale nell'asta;
- F2: sforzo di taglio agente nella direzione dell'asse locale 2;
- F3: sforzo di taglio agente nella direzione dell'asse locale 3;
- M1 (Mt): momento attorno all'asse locale 1; equivale al momento torcente;
- M2: momento attorno all'asse locale 2;
- M3: momento attorno all'asse locale 3;



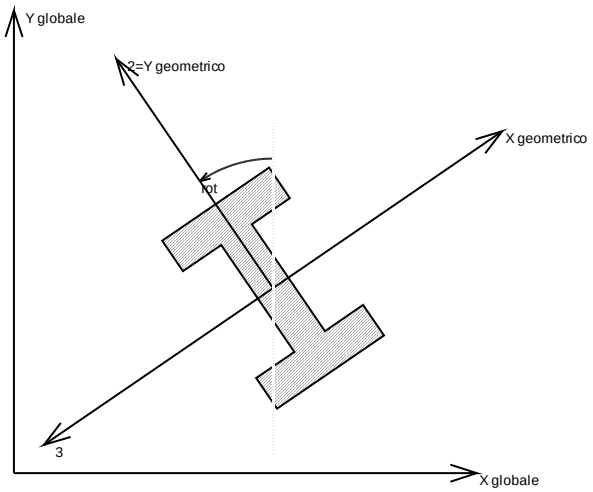
La convenzione sui segni per i parametri di sollecitazione delle aste è la seguente:
presa un'asta con nodo iniziale i e nodo finale f, asse 1 che va da i a f, assi 2 e 3 presi secondo quanto indicato nei paragrafi successivi relativi al sistema locale delle aste sezionando l'asta in un punto e considerando la sezione sinistra del punto in cui si è effettuato il taglio (sezione da cui esce il versore asse 1) i parametri di sollecitazione sono positivi se hanno verso e direzione concordi con il sistema di riferimento locale dell'asta 1, 2, 3 (per i momenti si adotta la regola della mano destra).

Il sistema è definito diversamente per tre categorie di aste, a seconda che siano originate da:

- aste verticali ad esempio pilastri e colonne;
- aste non verticali non di c.a., ad esempio travi di acciaio o legno;
- aste non verticali in c.a.: travi in c.a. di piano, falda o a quota generica.

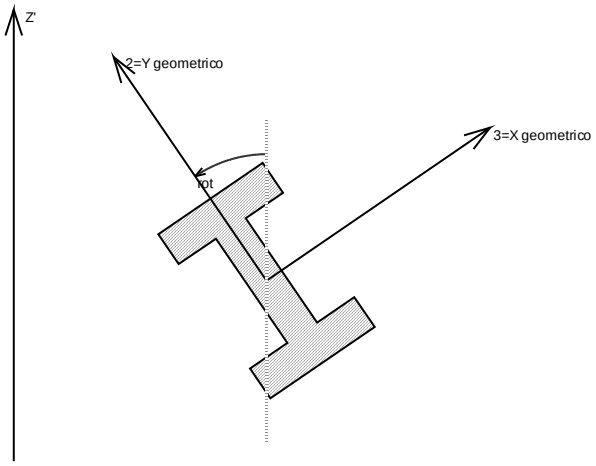
Nel seguito si indica con 1, 2 e 3 il sistema locale dell'asta che non sempre coincide con gli assi principali della sezione. Si ricorda che per assi principali si intendono gli assi rispetto a cui si ha il raggio di inerzia minimo e massimo. Gli assi 1, 2 e 3 rispettano la regola della mano destra.

Sistema locale aste verticali



Nella figura si considera l’asse 1 uscente dal foglio (l’osservatore guarda in direzione opposta a quella dell’asse 1).

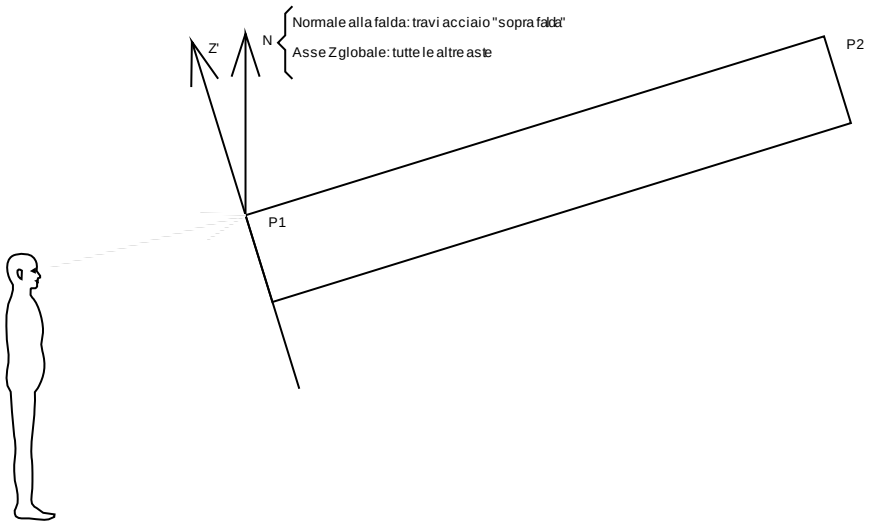
Sistema locale aste non verticali



Nella figura si considera l’asse 1 entrante nel foglio (l’osservatore guarda in direzione coincidente a quella dell’asse 1).

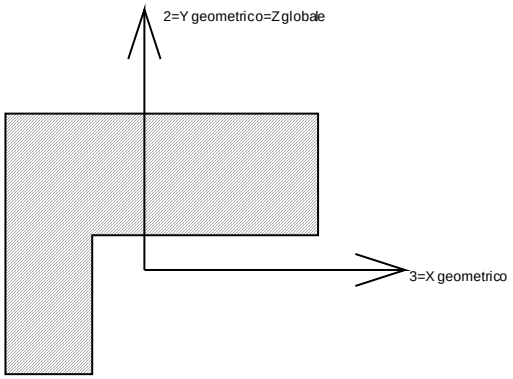
L'asse Z’ è illustrato nella figura seguente dove:

- P1 è il punto di inserimento iniziale dell’asta
- P2 è il punto di inserimento finale dell’asta
- N è la normale al piano o falda di inserimento



Z' è quindi l'intersezione tra il piano passante per P1, P2 contenente N e il piano della sezione iniziale dell'asta.

Sistema locale aste derivanti da travi in c.a.



Nella figura si considera l'asse 1 entrante nel foglio (l'osservatore guarda in direzione coincidente a quella dell'asse 1). L'asse 2 è sempre verticale e quindi coincidente con l'asse Z globale nonché con l'asse y geometrico. L'asse 3 coincide con l'asse x geometrico. Si sottolinea il fatto che gli assi 2 e 3 non corrispondono agli assi principali della sezione.

43.3.2 Sollecitazioni estreme aste

***Asta**: Elemento asta a cui si riferiscono le sollecitazioni.*
***Ind.**: Indice dell'asta.*
***Cont.**: Contesto a cui si riferisce la sollecitazione*
***n.br.**: Nome breve della condizione o combinazione di carico.*
***Pos.**: Numero della sezione all'interno dell'asta (tra 1 e 31, dove 1 corrisponde alla sezione al nodo iniziale, 16 è la sezione in mezzeria, 31 corrisponde alla sezione al nodo finale).*
***Posizione**: Posizione a cui si riferisce la sollecitazione dell'asta.*
***X**: Componente X della posizione a cui si riferisce la sollecitazione dell'asta. [cm]*
***Y**: Componente Y della posizione a cui si riferisce la sollecitazione dell'asta. [cm]*
***Z**: Componente Z della posizione a cui si riferisce la sollecitazione dell'asta. [cm]*
***Soll.traslazionale**: Componente traslazionale della sollecitazione dell'asta.*
***F1**: Componente F1 della sollecitazione dell'asta. [daN]*
***F2**: Componente F2 della sollecitazione dell'asta. [daN]*
***F3**: Componente F3 della sollecitazione dell'asta. [daN]*
***Soll.rotazionale**: Componente rotazionale della sollecitazione dell'asta.*
***M1**: Componente M1 della sollecitazione dell'asta. [daN*cm]*
***M2**: Componente M2 della sollecitazione dell'asta. [daN*cm]*
***M3**: Componente M3 della sollecitazione dell'asta. [daN*cm]*

Sollecitazioni con sforzo normale (N) minimo
Vengono mostrate le sole 5 aste più sollecitate.

Asta	Cont.	Pos.	Posizione			Soll.traslazionale			Soll.rotazionale		
Ind.	n.br.		X	Y	Z	F1	F2	F3	M1	M2	M3

Asta	Cont.	Pos.	Posizione			Soll.traslazionale			Soll.rotazionale		
Ind.	n.br.		X	Y	Z	F1	F2	F3	M1	M2	M3
97	SLU 49	31	575	710	-218	-15506	0	1692	0	334150	0
112	SLU 49	31	2045	710	-218	-13646	0	-1969	0	-388938	0
102	SLU 49	31	575	1210	-218	-12197	0	1202	-1	237340	-14
92	SLU 49	31	575	210	-218	-12197	0	1202	1	237340	14
98	SLU 49	31	575	710	-393	-12143	0	-258	0	288952	0

Sollecitazioni con sforzo normale (N) massimo
Vengono mostrate le sole 5 aste più sollecitate.

Asta	Cont.	Pos.	Posizione			Soll.traslazionale			Soll.rotazionale		
Ind.	n.br.		X	Y	Z	F1	F2	F3	M1	M2	M3
8	SLU 5	31	645	710	530	7426	15	-66	1418	-4640	0
122	SLU 5	31	575	710	-20	5919	113	-1675	-936	0	54024
126	SLU 3	31	2045	710	-20	4746	264	1355	-937	0	102858
4	SLU 3	31	1755	710	407	3212	60	94	11100	9614	0
9	SLU 5	31	645	1210	530	3065	15	-66	1410	-4624	0

Sollecitazioni con momento M2 minimo
Vengono mostrate le sole 5 aste più sollecitate.

Asta	Cont.	Pos.	Posizione			Soll.traslazionale			Soll.rotazionale		
Ind.	n.br.		X	Y	Z	F1	F2	F3	M1	M2	M3
113	SLV 13	1	2045	710	-218	-5888	-442	409	1515	-529449	-262686
112	SLV 13	31	2045	710	-218	-9023	447	-2681	2266	-529449	-262686
117	SLV 13	31	2045	210	-218	-8148	446	-2556	2260	-504819	-262376
107	SLV 15	31	2045	1210	-218	-8148	-446	-2556	-2260	-504819	262376
108	SLV 15	1	2045	1210	-218	-5221	442	390	-1511	-504819	262376

Sollecitazioni con momento M2 massimo
Vengono mostrate le sole 5 aste più sollecitate.

Asta	Cont.	Pos.	Posizione			Soll.traslazionale			Soll.rotazionale		
Ind.	n.br.		X	Y	Z	F1	F2	F3	M1	M2	M3
7	SLV 11	1	575	210	-20	-4102	-15	-787	15428	383298	0
8	SLV 11	1	575	710	-20	-4173	-15	-787	15514	383137	0
9	SLV 11	1	575	1210	-20	-2139	-15	-786	15506	382928	0
97	SLV 1	31	575	710	-218	-9978	405	1900	3963	375321	-274801
98	SLV 1	1	575	710	-218	-6617	-479	-290	2650	375321	-274801

Sollecitazioni con momento M3 minimo
Vengono mostrate le sole 5 aste più sollecitate.

Asta	Cont.	Pos.	Posizione			Soll.traslazionale			Soll.rotazionale		
Ind.	n.br.		X	Y	Z	F1	F2	F3	M1	M2	M3
50	SLU 49	31	645	710	530	-1645	5220	0	0	0	-1148914
54	SLU 49	1	645	710	530	149	-4083	0	0	0	-1148903
52	SLV 3	1	645	210	530	-101	-3161	104	-2450	-63100	-980516
56	SLV 1	1	645	1210	530	-101	-3161	-104	2450	63100	-980516
49	SLV 3	31	645	210	530	-1031	2876	-201	2918	-64767	-980514

Sollecitazioni con momento M3 massimo
Vengono mostrate le sole 5 aste più sollecitate.

Asta	Cont.	Pos.	Posizione			Soll.traslazionale			Soll.rotazionale		
Ind.	n.br.		X	Y	Z	F1	F2	F3	M1	M2	M3
46	SLU 49	1	1325	710	461	-1769	835	0	0	0	943004
45	SLU 49	31	1325	710	461	-1916	-169	0	0	0	943004
97	SLV 11	31	575	710	-218	-8710	-1349	386	-13206	76264	916011
98	SLV 11	1	575	710	-218	-5649	1598	-59	-8830	76264	916011
92	SLV 11	31	575	210	-218	-7829	-1348	821	-13187	162072	915910

43.4 Sollecitazioni estreme bielle

***Biel.**: Biella a cui si riferiscono le sollecitazioni.*
***Ind.**: Indice della biella a cui si riferiscono le sollecitazioni.*
***Cont.**: Contesto a cui si riferiscono le sollecitazioni della biella.*
***n.br.**: Nome breve della condizione o combinazione di carico.*
***N**: Componente di trazione della sollecitazione della biella. [daN]*

Sollecitazioni con sforzo normale (N) massimo
Vengono mostrate le sole 5 bielle più sollecitate.

Biel.	Cont.	N
Ind.	n.br.	
6	SLV 5	1038
1	SLV 7	1038
7	SLV 11	1016

copertura

Biel.	Cont.	N
Ind.	n.br.	
24	SLV 9	1016
49	SLV 5	952

Sollecitazioni con sforzo normale (N) massimo
Vengono mostrate le sole 5 bielle più sollecitate.

Biel.	Cont.	N
Ind.	n.br.	
6	SLV 5	1038
1	SLV 7	1038
7	SLV 11	1016
24	SLV 9	1016
49	SLV 5	952

43.5 Sollecitazioni gusci

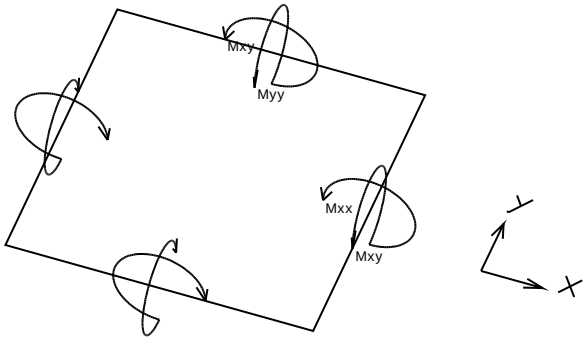
43.5.1 Convenzioni di segno gusci

Sono individuate distinte convenzioni di segno in relazione al tipo di elemento strutturale a cui il guscio si riferisce:

- convenzione per gusci non verticali, originati ad esempio da piastre e platee
- convenzione per gusci verticali, originati ad esempio da pareti e muri

Convenzione di segno per gusci non verticali

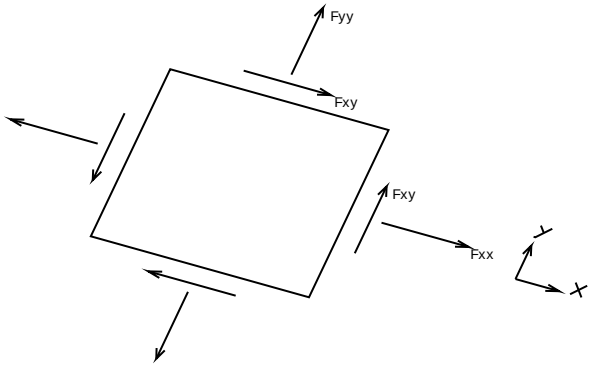
Il sistema di riferimento nel quale sono espressi i parametri di sollecitazione è così definito: origine appartenente al piano dell'elemento, asse x e y contenuti nel piano dell'elemento e terzo asse (z) ortogonale al piano dell'elemento a formare una terna destrogira. In particolare l'asse x ha proiezione in pianta parallelaed equiversa all'asse globale X. Nel caso di piastre orizzontali (caso più comune) gli assi x, y e z locali all'elementosono paralleli ed equiversi agli assi X, Y e Z globali. Si sottolinea che non ha alcun interesse collocare esattamentenel piano dell'elemento la posizione dell'origine in quanto i parametri di sollecitazione sono invarianti rispetto a tale posizione.
In figura è mostrato un elemento infinitesimo di shell orizzontale con indicato il sistema di riferimento e i parametri di sollecitazione Mxx, Myy, Mxy.



Si definiscono:

- Mxx: momento flettente [Forza*Lunghezza/Lunghezza] agente sul bordo di normale x (verso positivo indicato dalla freccia in figura che tende le fibre inferiori);
- Myy: momento flettente [Forza*Lunghezza/Lunghezza] agente sul bordo di normale y (verso positivo indicato dalla freccia in figura che tende le fibre inferiori);
- Mxy: momento torcente [Forza*Lunghezza/Lunghezza] agente sui bordi (verso positivo indicato dalla freccia in figura);

Per quanto riguarda le sollecitazioni estensionali si faccia riferimento alla figura seguente dove per lo stesso elemento infinitesimo di shell orizzontale con indicato il sistema di riferimento e i parametri di sollecitazione Fxx, Fyy, Fxy.



Si definiscono:

- Fxx: sforzo estensionale [Forza/Lunghezza] agente sul bordo di normale x (verso positivo indicato dalla freccia in figura che mette in

trazione l'elemento);

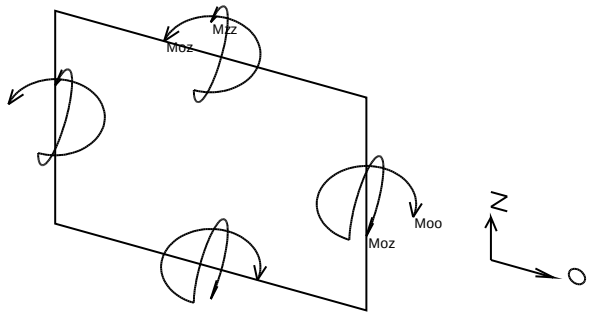
- Fyy: sforzo estensionale [Forza/Lunghezza] agente sul bordo di normale all'asse y (verso positivo indicato dalla freccia in figura che mette in trazione l'elemento);
- Fxy: sforzo di taglio [Forza/Lunghezza] agente sui bordi (verso positivo indicato dalla freccia in figura).

Vengono riportati inoltre i tagli fuori dal piano dell'elemento guscio:

- Vx: taglio fuori piano [Forza/Lunghezza] applicato al bordo di normale parallela all'asse x;
- Vy: taglio fuori piano [Forza/Lunghezza] applicato al bordo di normale parallela all'asse y;

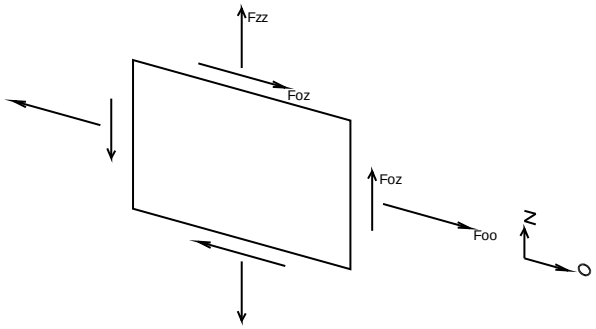
Convenzione di segno per gusci verticali

Il sistema di riferimento nel quale sono espressi i parametri di sollecitazione è così definito: origine appartenente al piano dell'elemento, asse O (ascisse) e z (ordinate) contenuti nel piano dell'elemento e terzo asse ortogonale al piano dell'elemento a formare una terna destrogira. In particolare l'asse O è orizzontale e l'asse z parallelo ed equiverso con l'asse Z globale. Si sottolinea che non ha alcun interesse collocare esattamente nel piano dell'elemento la posizione dell'origine in quanto i parametri di sollecitazione sono invarianti rispetto a tale posizione.In figura è mostrato un elemento infinitesimo di shell orizzontale con indicato il sistema di riferimento e i parametri di sollecitazione Moo, Mzz, Moz.



- Moo: momento flettente distribuito [Forza*Lunghezza/Lunghezza] applicato al bordo di normale parallela all'asse O (verso positivo indicato dalla freccia in figura che tende le fibre inferiori);
- Mzz: momento flettente distribuito [Forza*Lunghezza/Lunghezza] applicato al bordo di normale parallela all'asse z (verso positivo indicato dalla freccia in figura che tende le fibre inferiori);
- Moz: momento 'torcente' distribuito [Forza*Lunghezza/Lunghezza] applicato sui bordi (verso positivo indicato dalla freccia in figura);

Per quanto riguarda le sollecitazioni estensionali si faccia riferimento alla figura seguente dove per lo stesso elemento infinitesimo di shell con indicato il sistema di riferimento i parametri di sollecitazione Foo, Fzz, Foz sono rispettivamente:



- Fzz: sforzo tensionale distribuito [Forza/Lunghezza] applicato al bordo di normale parallela all'asse z (verso positivo indicato dalla freccia in figura che mette in trazione l'elemento);
- Foo: sforzo tensionale distribuito [Forza/Lunghezza] applicato al bordo di normale parallela all'asse O (verso positivo indicato dalla freccia in figura che mette in trazione l'elemento);
- Foz: sforzo tagliante distribuito [Forza/Lunghezza] applicato sui bordi (verso positivo indicato dalla freccia in figura);

Vengono riportati inoltre i tagli fuori dal piano dell'elemento guscio:

- Vo: taglio fuori piano applicato al bordo di normale parallela all'asse O ;
- Vz: taglio fuori piano applicato al bordo di normale parallela all'asse z .

43.6 Tagli ai livelli

***Livello**: Livello rispetto a cui è calcolato il taglio.*
***Nome**: Nome completo del livello.*
***Cont.**: Contesto nel quale viene valutato il taglio.*
***n.br.**: Nome breve della condizione o combinazione di carico.*
***Totale**: Totale del taglio al livello.*
***F**: Forza del taglio. [daN]*
***X**: Componente lungo l'asse X globale. [daN]*
***Y**: Componente lungo l'asse Y globale. [daN]*
***Z**: Componente lungo l'asse Z globale. [daN]*

***Aste verticali**: Contributo al taglio totale dato dalle aste verticali.*
- ***F**: Forza del taglio. [daN]*
  - ***X**: Componente lungo l'asse X globale. [daN]*
  - ***Y**: Componente lungo l'asse Y globale. [daN]*
  - ***Z**: Componente lungo l'asse Z globale. [daN]*

***Pareti**: Contributo al taglio totale dato dalle pareti e piastre generiche verticali.*
- ***F**: Forza del taglio. [daN]*
  - ***X**: Componente lungo l'asse X globale. [daN]*
  - ***Y**: Componente lungo l'asse Y globale. [daN]*
  - ***Z**: Componente lungo l'asse Z globale. [daN]*

Livello	Cont.	Totale			Aste verticali			Pareti		
Nome	n.br.	F			F			F		
		X	Y	Z	X	Y	Z	X	Y	Z
fondpali	SLU 1	0	0	-17517	0	0	-17517	0	0	0
fondpali	SLU 2	0	1598	4072	0	1598	4072	0	0	0
fondpali	SLU 3	1365	1598	16861	1365	1598	16861	0	0	0
fondpali	SLU 4	2275	0	3798	2275	0	3798	0	0	0
fondpali	SLU 5	2275	959	16752	2275	959	16752	0	0	0
fondpali	SLU 6	0	1598	-2475	0	1598	-2475	0	0	0
fondpali	SLU 7	1365	1598	10314	1365	1598	10314	0	0	0
fondpali	SLU 8	2275	0	-2748	2275	0	-2748	0	0	0
fondpali	SLU 9	2275	959	10205	2275	959	10205	0	0	0
fondpali	SLU 10	0	0	-30610	0	0	-30610	0	0	0
fondpali	SLU 11	0	959	-17657	0	959	-17657	0	0	0
fondpali	SLU 12	1365	0	-17821	1365	0	-17821	0	0	0
fondpali	SLU 13	1365	959	-4868	1365	959	-4868	0	0	0
fondpali	SLU 14	0	0	-23685	0	0	-23685	0	0	0
fondpali	SLU 15	0	1598	-2096	0	1598	-2096	0	0	0
fondpali	SLU 16	1365	1598	10693	1365	1598	10693	0	0	0
fondpali	SLU 17	2275	0	-2370	2275	0	-2370	0	0	0
fondpali	SLU 18	2275	959	10583	2275	959	10583	0	0	0
fondpali	SLU 19	0	1598	-8643	0	1598	-8643	0	0	0
fondpali	SLU 20	1365	1598	4146	1365	1598	4146	0	0	0
fondpali	SLU 21	2275	0	-8916	2275	0	-8916	0	0	0
fondpali	SLU 22	2275	959	4037	2275	959	4037	0	0	0
fondpali	SLU 23	0	0	-36778	0	0	-36778	0	0	0
fondpali	SLU 24	0	959	-23825	0	959	-23825	0	0	0
fondpali	SLU 25	1365	0	-23989	1365	0	-23989	0	0	0
fondpali	SLU 26	1365	959	-11036	1365	959	-11036	0	0	0
fondpali	SLU 27	0	0	-22771	0	0	-22771	0	0	0
fondpali	SLU 28	0	1598	-1183	0	1598	-1183	0	0	0
fondpali	SLU 29	1365	1598	11606	1365	1598	11606	0	0	0
fondpali	SLU 30	2275	0	-1456	2275	0	-1456	0	0	0
fondpali	SLU 31	2275	959	11497	2275	959	11497	0	0	0
fondpali	SLU 32	0	1598	-7730	0	1598	-7730	0	0	0
fondpali	SLU 33	1365	1598	5059	1365	1598	5059	0	0	0
fondpali	SLU 34	2275	0	-8003	2275	0	-8003	0	0	0
fondpali	SLU 35	2275	959	4950	2275	959	4950	0	0	0
fondpali	SLU 36	0	0	-35865	0	0	-35865	0	0	0
fondpali	SLU 37	0	959	-22912	0	959	-22912	0	0	0
fondpali	SLU 38	1365	0	-23076	1365	0	-23076	0	0	0
fondpali	SLU 39	1365	959	-10123	1365	959	-10123	0	0	0
fondpali	SLU 40	0	0	-28940	0	0	-28940	0	0	0
fondpali	SLU 41	0	1598	-7351	0	1598	-7351	0	0	0
fondpali	SLU 42	1365	1598	5438	1365	1598	5438	0	0	0
fondpali	SLU 43	2275	0	-7625	2275	0	-7625	0	0	0
fondpali	SLU 44	2275	959	5328	2275	959	5328	0	0	0
fondpali	SLU 45	0	1598	-13898	0	1598	-13898	0	0	0
fondpali	SLU 46	1365	1598	-1109	1365	1598	-1109	0	0	0
fondpali	SLU 47	2275	0	-14171	2275	0	-14171	0	0	0
fondpali	SLU 48	2275	959	-1218	2275	959	-1218	0	0	0
fondpali	SLU 49	0	0	-42033	0	0	-42033	0	0	0
fondpali	SLU 50	0	959	-29080	0	959	-29080	0	0	0
fondpali	SLU 51	1365	0	-29244	1365	0	-29244	0	0	0
fondpali	SLU 52	1365	959	-16291	1365	959	-16291	0	0	0
fondpali	SLE RA 1	0	0	-21629	0	0	-21629	0	0	0
fondpali	SLE RA 2	0	1065	-7236	0	1065	-7236	0	0	0
fondpali	SLE RA 3	910	1065	1290	910	1065	1290	0	0	0
fondpali	SLE RA 4	1517	0	-7419	1517	0	-7419	0	0	0
fondpali	SLE RA 5	1517	639	1217	1517	639	1217	0	0	0
fondpali	SLE RA 6	0	1065	-11601	0	1065	-11601	0	0	0
fondpali	SLE RA 7	910	1065	-3075	910	1065	-3075	0	0	0
fondpali	SLE RA 8	1517	0	-11783	1517	0	-11783	0	0	0
fondpali	SLE RA 9	1517	639	-3148	1517	639	-3148	0	0	0
fondpali	SLE RA 10	0	0	-30358	0	0	-30358	0	0	0
fondpali	SLE RA 11	0	639	-21722	0	639	-21722	0	0	0
fondpali	SLE RA 12	910	0	-21832	910	0	-21832	0	0	0
fondpali	SLE RA 13	910	639	-13196	910	639	-13196	0	0	0
fondpali	SLE FR 1	0	0	-21629	0	0	-21629	0	0	0
fondpali	SLE FR 2	0	213	-18750	0	213	-18750	0	0	0
fondpali	SLE FR 3	303	0	-18787	303	0	-18787	0	0	0
fondpali	SLE FR 4	0	0	-23374	0	0	-23374	0	0	0
fondpali	SLE QP 1	0	0	-21629	0	0	-21629	0	0	0
fondpali	SLD 1	-3313	-994	-21629	-3313	-994	-21629	0	0	0
fondpali	SLD 2	-3313	-994	-21629	-3313	-994	-21629	0	0	0
fondpali	SLD 3	-3313	994	-21629	-3313	994	-21629	0	0	0
fondpali	SLD 4	-3313	994	-21629	-3313	994	-21629	0	0	0
fondpali	SLD 5	-994	-3313	-21629	-994	-3313	-21629	0	0	0
fondpali	SLD 6	-994	-3313	-21629	-994	-3313	-21629	0	0	0
fondpali	SLD 7	-994	3313	-21629	-994	3313	-21629	0	0	0
fondpali	SLD 8	-994	3313	-21629	-994	3313	-21629	0	0	0
fondpali	SLD 9	994	-3313	-21629	994	-3313	-21629	0	0	0
fondpali	SLD 10	994	-3313	-21629	994	-3313	-21629	0	0	0
fondpali	SLD 11	994	3313	-21629	994	3313	-21629	0	0	0
fondpali	SLD 12	994	3313	-21629	994	3313	-21629	0	0	0
fondpali	SLD 13	3313	-994	-21629	3313	-994	-21629	0	0	0
fondpali	SLD 14	3313	-994	-21629	3313	-994	-21629	0	0	0
fondpali	SLD 15	3313	994	-21629	3313	994	-21629	0	0	0

Livello	Cont.	Totale			Aste verticali			Pareti		
Nome	n.br.	F			F			F		
		X	Y	Z	X	Y	Z	X	Y	Z
fondpali	SLD 16	3313	994	-21629	3313	994	-21629	0	0	0
fondpali	SLV 1	-8510	-2553	-21629	-8510	-2553	-21629	0	0	0
fondpali	SLV 2	-8510	-2553	-21629	-8510	-2553	-21629	0	0	0
fondpali	SLV 3	-8510	2553	-21629	-8510	2553	-21629	0	0	0
fondpali	SLV 4	-8510	2553	-21629	-8510	2553	-21629	0	0	0
fondpali	SLV 5	-2553	-8510	-21629	-2553	-8510	-21629	0	0	0
fondpali	SLV 6	-2553	-8510	-21629	-2553	-8510	-21629	0	0	0
fondpali	SLV 7	-2553	8510	-21629	-2553	8510	-21629	0	0	0
fondpali	SLV 8	-2553	8510	-21629	-2553	8510	-21629	0	0	0
fondpali	SLV 9	2553	-8510	-21629	2553	-8510	-21629	0	0	0
fondpali	SLV 10	2553	-8510	-21629	2553	-8510	-21629	0	0	0
fondpali	SLV 11	2553	8510	-21629	2553	8510	-21629	0	0	0
fondpali	SLV 12	2553	8510	-21629	2553	8510	-21629	0	0	0
fondpali	SLV 13	8510	-2553	-21629	8510	-2553	-21629	0	0	0
fondpali	SLV 14	8510	-2553	-21629	8510	-2553	-21629	0	0	0
fondpali	SLV 15	8510	2553	-21629	8510	2553	-21629	0	0	0
fondpali	SLV 16	8510	2553	-21629	8510	2553	-21629	0	0	0
fondpali	SLV FO 1	-8510	-2553	-21629	-8510	-2553	-21629	0	0	0
fondpali	SLV FO 2	-8510	-2553	-21629	-8510	-2553	-21629	0	0	0
fondpali	SLV FO 3	-8510	2553	-21629	-8510	2553	-21629	0	0	0
fondpali	SLV FO 4	-8510	2553	-21629	-8510	2553	-21629	0	0	0
fondpali	SLV FO 5	-2553	-8510	-21629	-2553	-8510	-21629	0	0	0
fondpali	SLV FO 6	-2553	-8510	-21629	-2553	-8510	-21629	0	0	0
fondpali	SLV FO 7	-2553	8510	-21629	-2553	8510	-21629	0	0	0
fondpali	SLV FO 8	-2553	8510	-21629	-2553	8510	-21629	0	0	0
fondpali	SLV FO 9	2553	-8510	-21629	2553	-8510	-21629	0	0	0
fondpali	SLV FO 10	2553	-8510	-21629	2553	-8510	-21629	0	0	0
fondpali	SLV FO 11	2553	8510	-21629	2553	8510	-21629	0	0	0
fondpali	SLV FO 12	2553	8510	-21629	2553	8510	-21629	0	0	0
fondpali	SLV FO 13	8510	-2553	-21629	8510	-2553	-21629	0	0	0
fondpali	SLV FO 14	8510	-2553	-21629	8510	-2553	-21629	0	0	0
fondpali	SLV FO 15	8510	2553	-21629	8510	2553	-21629	0	0	0
fondpali	SLV FO 16	8510	2553	-21629	8510	2553	-21629	0	0	0
fondpali	CRTFP Rig. Ux+	0	0	0	0	0	0	0	0	0
fondpali	CRTFP Rig. Ux-	0	0	0	0	0	0	0	0	0
fondpali	CRTFP Rig. Uy+	0	0	0	0	0	0	0	0	0
fondpali	CRTFP Rig. Uy-	0	0	0	0	0	0	0	0	0
fondpali	CRTFP Rig. Rz+	0	0	0	0	0	0	0	0	0
fondpali	CRTFP Rig. Rz-	0	0	0	0	0	0	0	0	0
Fondazione	SLU 1	0	0	-17492	0	0	0	0	0	0
Fondazione	SLU 2	0	1598	4097	0	0	0	0	0	0
Fondazione	SLU 3	1365	1598	16886	0	0	0	0	0	0
Fondazione	SLU 4	2275	0	3823	0	0	0	0	0	0
Fondazione	SLU 5	2275	959	16777	0	0	0	0	0	0
Fondazione	SLU 6	0	1598	-2450	0	0	0	0	0	0
Fondazione	SLU 7	1365	1598	10339	0	0	0	0	0	0
Fondazione	SLU 8	2275	0	-2723	0	0	0	0	0	0
Fondazione	SLU 9	2275	959	10230	0	0	0	0	0	0
Fondazione	SLU 10	0	0	-30585	0	0	0	0	0	0
Fondazione	SLU 11	0	959	-17632	0	0	0	0	0	0
Fondazione	SLU 12	1365	0	-17796	0	0	0	0	0	0
Fondazione	SLU 13	1365	959	-4843	0	0	0	0	0	0
Fondazione	SLU 14	0	0	-23660	0	0	0	0	0	0
Fondazione	SLU 15	0	1598	-2071	0	0	0	0	0	0
Fondazione	SLU 16	1365	1598	10718	0	0	0	0	0	0
Fondazione	SLU 17	2275	0	-2345	0	0	0	0	0	0
Fondazione	SLU 18	2275	959	10608	0	0	0	0	0	0
Fondazione	SLU 19	0	1598	-8618	0	0	0	0	0	0
Fondazione	SLU 20	1365	1598	4171	0	0	0	0	0	0
Fondazione	SLU 21	2275	0	-8891	0	0	0	0	0	0
Fondazione	SLU 22	2275	959	4062	0	0	0	0	0	0
Fondazione	SLU 23	0	0	-36753	0	0	0	0	0	0
Fondazione	SLU 24	0	959	-23800	0	0	0	0	0	0
Fondazione	SLU 25	1365	0	-23964	0	0	0	0	0	0
Fondazione	SLU 26	1365	959	-11011	0	0	0	0	0	0
Fondazione	SLU 27	0	0	-22739	0	0	0	0	0	0
Fondazione	SLU 28	0	1598	-1151	0	0	0	0	0	0
Fondazione	SLU 29	1365	1598	11638	0	0	0	0	0	0
Fondazione	SLU 30	2275	0	-1424	0	0	0	0	0	0
Fondazione	SLU 31	2275	959	11529	0	0	0	0	0	0
Fondazione	SLU 32	0	1598	-7697	0	0	0	0	0	0
Fondazione	SLU 33	1365	1598	5092	0	0	0	0	0	0
Fondazione	SLU 34	2275	0	-7971	0	0	0	0	0	0
Fondazione	SLU 35	2275	959	4982	0	0	0	0	0	0
Fondazione	SLU 36	0	0	-35832	0	0	0	0	0	0
Fondazione	SLU 37	0	959	-22879	0	0	0	0	0	0
Fondazione	SLU 38	1365	0	-23043	0	0	0	0	0	0
Fondazione	SLU 39	1365	959	-10090	0	0	0	0	0	0
Fondazione	SLU 40	0	0	-28907	0	0	0	0	0	0
Fondazione	SLU 41	0	1598	-7319	0	0	0	0	0	0
Fondazione	SLU 42	1365	1598	5470	0	0	0	0	0	0
Fondazione	SLU 43	2275	0	-7592	0	0	0	0	0	0
Fondazione	SLU 44	2275	959	5361	0	0	0	0	0	0
Fondazione	SLU 45	0	1598	-13865	0	0	0	0	0	0
Fondazione	SLU 46	1365	1598	-1076	0	0	0	0	0	0
Fondazione	SLU 47	2275	0	-14139	0	0	0	0	0	0
Fondazione	SLU 48	2275	959	-1186	0	0	0	0	0	0
Fondazione	SLU 49	0	0	-42001	0	0	0	0	0	0
Fondazione	SLU 50	0	959	-29048	0	0	0	0	0	0
Fondazione	SLU 51	1365	0	-29212	0	0	0	0	0	0
Fondazione	SLU 52	1365	959	-16259	0	0	0	0	0	0
Fondazione	SLE RA 1	0	0	-21604	0	0	0	0	0	0
Fondazione	SLE RA 2	0	1065	-7211	0	0	0	0	0	0
Fondazione	SLE RA 3	910	1065	1315	0	0	0	0	0	0
Fondazione	SLE RA 4	1517	0	-7394	0	0	0	0	0	0
Fondazione	SLE RA 5	1517	639	1242	0	0	0	0	0	0

Livello	Cont.	Totale			Aste verticali			Pareti		
Nome	n.br.	F			F			F		
		X	Y	Z	X	Y	Z	X	Y	Z
Fondazione	SLE RA 6	0	1065	-11576	0	0	0	0	0	0
Fondazione	SLE RA 7	910	1065	-3050	0	0	0	0	0	0
Fondazione	SLE RA 8	1517	0	-11758	0	0	0	0	0	0
Fondazione	SLE RA 9	1517	639	-3123	0	0	0	0	0	0
Fondazione	SLE RA 10	0	0	-30333	0	0	0	0	0	0
Fondazione	SLE RA 11	0	639	-21697	0	0	0	0	0	0
Fondazione	SLE RA 12	910	0	-21807	0	0	0	0	0	0
Fondazione	SLE RA 13	910	639	-13171	0	0	0	0	0	0
Fondazione	SLE FR 1	0	0	-21604	0	0	0	0	0	0
Fondazione	SLE FR 2	0	213	-18725	0	0	0	0	0	0
Fondazione	SLE FR 3	303	0	-18762	0	0	0	0	0	0
Fondazione	SLE FR 4	0	0	-23349	0	0	0	0	0	0
Fondazione	SLE QP 1	0	0	-21604	0	0	0	0	0	0
Fondazione	SLD 1	-3313	-994	-21604	0	0	0	0	0	0
Fondazione	SLD 2	-3313	-994	-21604	0	0	0	0	0	0
Fondazione	SLD 3	-3313	994	-21604	0	0	0	0	0	0
Fondazione	SLD 4	-3313	994	-21604	0	0	0	0	0	0
Fondazione	SLD 5	-994	-3313	-21604	0	0	0	0	0	0
Fondazione	SLD 6	-994	-3313	-21604	0	0	0	0	0	0
Fondazione	SLD 7	-994	3313	-21604	0	0	0	0	0	0
Fondazione	SLD 8	-994	3313	-21604	0	0	0	0	0	0
Fondazione	SLD 9	994	-3313	-21604	0	0	0	0	0	0
Fondazione	SLD 10	994	-3313	-21604	0	0	0	0	0	0
Fondazione	SLD 11	994	3313	-21604	0	0	0	0	0	0
Fondazione	SLD 12	994	3313	-21604	0	0	0	0	0	0
Fondazione	SLD 13	3313	-994	-21604	0	0	0	0	0	0
Fondazione	SLD 14	3313	-994	-21604	0	0	0	0	0	0
Fondazione	SLD 15	3313	994	-21604	0	0	0	0	0	0
Fondazione	SLD 16	3313	994	-21604	0	0	0	0	0	0
Fondazione	SLV 1	-8510	-2553	-21604	0	0	0	0	0	0
Fondazione	SLV 2	-8510	-2553	-21604	0	0	0	0	0	0
Fondazione	SLV 3	-8510	2553	-21604	0	0	0	0	0	0
Fondazione	SLV 4	-8510	2553	-21604	0	0	0	0	0	0
Fondazione	SLV 5	-2553	-8510	-21604	0	0	0	0	0	0
Fondazione	SLV 6	-2553	-8510	-21604	0	0	0	0	0	0
Fondazione	SLV 7	-2553	8510	-21604	0	0	0	0	0	0
Fondazione	SLV 8	-2553	8510	-21604	0	0	0	0	0	0
Fondazione	SLV 9	2553	-8510	-21604	0	0	0	0	0	0
Fondazione	SLV 10	2553	-8510	-21604	0	0	0	0	0	0
Fondazione	SLV 11	2553	8510	-21604	0	0	0	0	0	0
Fondazione	SLV 12	2553	8510	-21604	0	0	0	0	0	0
Fondazione	SLV 13	8510	-2553	-21604	0	0	0	0	0	0
Fondazione	SLV 14	8510	-2553	-21604	0	0	0	0	0	0
Fondazione	SLV 15	8510	2553	-21604	0	0	0	0	0	0
Fondazione	SLV 16	8510	2553	-21604	0	0	0	0	0	0
Fondazione	SLV FO 1	-8510	-2553	-21604	0	0	0	0	0	0
Fondazione	SLV FO 2	-8510	-2553	-21604	0	0	0	0	0	0
Fondazione	SLV FO 3	-8510	2553	-21604	0	0	0	0	0	0
Fondazione	SLV FO 4	-8510	2553	-21604	0	0	0	0	0	0
Fondazione	SLV FO 5	-2553	-8510	-21604	0	0	0	0	0	0
Fondazione	SLV FO 6	-2553	-8510	-21604	0	0	0	0	0	0
Fondazione	SLV FO 7	-2553	8510	-21604	0	0	0	0	0	0
Fondazione	SLV FO 8	-2553	8510	-21604	0	0	0	0	0	0
Fondazione	SLV FO 9	2553	-8510	-21604	0	0	0	0	0	0
Fondazione	SLV FO 10	2553	-8510	-21604	0	0	0	0	0	0
Fondazione	SLV FO 11	2553	8510	-21604	0	0	0	0	0	0
Fondazione	SLV FO 12	2553	8510	-21604	0	0	0	0	0	0
Fondazione	SLV FO 13	8510	-2553	-21604	0	0	0	0	0	0
Fondazione	SLV FO 14	8510	-2553	-21604	0	0	0	0	0	0
Fondazione	SLV FO 15	8510	2553	-21604	0	0	0	0	0	0
Fondazione	SLV FO 16	8510	2553	-21604	0	0	0	0	0	0
Fondazione	CRTFP Rig. Ux+	0	0	0	0	0	0	0	0	0
Fondazione	CRTFP Rig. Ux-	0	0	0	0	0	0	0	0	0
Fondazione	CRTFP Rig. Uy+	0	0	0	0	0	0	0	0	0
Fondazione	CRTFP Rig. Uy-	0	0	0	0	0	0	0	0	0
Fondazione	CRTFP Rig. Rz+	0	0	0	0	0	0	0	0	0
Fondazione	CRTFP Rig. Rz-	0	0	0	0	0	0	0	0	0
Piano 1	SLU 1	0	0	-17203	0	0	0	0	0	0
Piano 1	SLU 2	0	1533	4386	0	0	0	0	0	0
Piano 1	SLU 3	1311	1533	17175	0	0	0	0	0	0
Piano 1	SLU 4	2186	0	4112	0	0	0	0	0	0
Piano 1	SLU 5	2186	920	17065	0	0	0	0	0	0
Piano 1	SLU 6	0	1533	-2161	0	0	0	0	0	0
Piano 1	SLU 7	1311	1533	10628	0	0	0	0	0	0
Piano 1	SLU 8	2186	0	-2434	0	0	0	0	0	0
Piano 1	SLU 9	2186	920	10519	0	0	0	0	0	0
Piano 1	SLU 10	0	0	-30296	0	0	0	0	0	0
Piano 1	SLU 11	0	920	-17343	0	0	0	0	0	0
Piano 1	SLU 12	1311	0	-17507	0	0	0	0	0	0
Piano 1	SLU 13	1311	920	-4554	0	0	0	0	0	0
Piano 1	SLU 14	0	0	-23371	0	0	0	0	0	0
Piano 1	SLU 15	0	1533	-1782	0	0	0	0	0	0
Piano 1	SLU 16	1311	1533	11007	0	0	0	0	0	0
Piano 1	SLU 17	2186	0	-2056	0	0	0	0	0	0
Piano 1	SLU 18	2186	920	10897	0	0	0	0	0	0
Piano 1	SLU 19	0	1533	-8329	0	0	0	0	0	0
Piano 1	SLU 20	1311	1533	4460	0	0	0	0	0	0
Piano 1	SLU 21	2186	0	-8603	0	0	0	0	0	0
Piano 1	SLU 22	2186	920	4351	0	0	0	0	0	0
Piano 1	SLU 23	0	0	-36464	0	0	0	0	0	0
Piano 1	SLU 24	0	920	-23511	0	0	0	0	0	0
Piano 1	SLU 25	1311	0	-23675	0	0	0	0	0	0
Piano 1	SLU 26	1311	920	-10722	0	0	0	0	0	0

Livello	Cont.	Totale			Aste verticali			Pareti		
Nome	n.br.	F			F			F		
		X	Y	Z	X	Y	Z	X	Y	Z
Piano 1	SLU 27	0	0	-22363	0	0	0	0	0	0
Piano 1	SLU 28	0	1533	-775	0	0	0	0	0	0
Piano 1	SLU 29	1311	1533	12014	0	0	0	0	0	0
Piano 1	SLU 30	2186	0	-1048	0	0	0	0	0	0
Piano 1	SLU 31	2186	920	11905	0	0	0	0	0	0
Piano 1	SLU 32	0	1533	-7322	0	0	0	0	0	0
Piano 1	SLU 33	1311	1533	5467	0	0	0	0	0	0
Piano 1	SLU 34	2186	0	-7595	0	0	0	0	0	0
Piano 1	SLU 35	2186	920	5358	0	0	0	0	0	0
Piano 1	SLU 36	0	0	-35457	0	0	0	0	0	0
Piano 1	SLU 37	0	920	-22504	0	0	0	0	0	0
Piano 1	SLU 38	1311	0	-22668	0	0	0	0	0	0
Piano 1	SLU 39	1311	920	-9715	0	0	0	0	0	0
Piano 1	SLU 40	0	0	-28532	0	0	0	0	0	0
Piano 1	SLU 41	0	1533	-6943	0	0	0	0	0	0
Piano 1	SLU 42	1311	1533	5846	0	0	0	0	0	0
Piano 1	SLU 43	2186	0	-7217	0	0	0	0	0	0
Piano 1	SLU 44	2186	920	5736	0	0	0	0	0	0
Piano 1	SLU 45	0	1533	-13490	0	0	0	0	0	0
Piano 1	SLU 46	1311	1533	-701	0	0	0	0	0	0
Piano 1	SLU 47	2186	0	-13763	0	0	0	0	0	0
Piano 1	SLU 48	2186	920	-810	0	0	0	0	0	0
Piano 1	SLU 49	0	0	-41625	0	0	0	0	0	0
Piano 1	SLU 50	0	920	-28672	0	0	0	0	0	0
Piano 1	SLU 51	1311	0	-28836	0	0	0	0	0	0
Piano 1	SLU 52	1311	920	-15883	0	0	0	0	0	0
Piano 1	SLE RA 1	0	0	-21315	0	0	0	0	0	0
Piano 1	SLE RA 2	0	1022	-6922	0	0	0	0	0	0
Piano 1	SLE RA 3	874	1022	1604	0	0	0	0	0	0
Piano 1	SLE RA 4	1457	0	-7105	0	0	0	0	0	0
Piano 1	SLE RA 5	1457	613	1531	0	0	0	0	0	0
Piano 1	SLE RA 6	0	1022	-11287	0	0	0	0	0	0
Piano 1	SLE RA 7	874	1022	-2761	0	0	0	0	0	0
Piano 1	SLE RA 8	1457	0	-11469	0	0	0	0	0	0
Piano 1	SLE RA 9	1457	613	-2834	0	0	0	0	0	0
Piano 1	SLE RA 10	0	0	-30044	0	0	0	0	0	0
Piano 1	SLE RA 11	0	613	-21408	0	0	0	0	0	0
Piano 1	SLE RA 12	874	0	-21518	0	0	0	0	0	0
Piano 1	SLE RA 13	874	613	-12882	0	0	0	0	0	0
Piano 1	SLE FR 1	0	0	-21315	0	0	0	0	0	0
Piano 1	SLE FR 2	0	204	-18436	0	0	0	0	0	0
Piano 1	SLE FR 3	291	0	-18473	0	0	0	0	0	0
Piano 1	SLE FR 4	0	0	-23061	0	0	0	0	0	0
Piano 1	SLE QP 1	0	0	-21315	0	0	0	0	0	0
Piano 1	SLD 1	-3313	-994	-21315	0	0	0	0	0	0
Piano 1	SLD 2	-3313	-994	-21315	0	0	0	0	0	0
Piano 1	SLD 3	-3313	994	-21315	0	0	0	0	0	0
Piano 1	SLD 4	-3313	994	-21315	0	0	0	0	0	0
Piano 1	SLD 5	-994	-3313	-21315	0	0	0	0	0	0
Piano 1	SLD 6	-994	-3313	-21315	0	0	0	0	0	0
Piano 1	SLD 7	-994	3313	-21315	0	0	0	0	0	0
Piano 1	SLD 8	-994	3313	-21315	0	0	0	0	0	0
Piano 1	SLD 9	994	-3313	-21315	0	0	0	0	0	0
Piano 1	SLD 10	994	-3313	-21315	0	0	0	0	0	0
Piano 1	SLD 11	994	3313	-21315	0	0	0	0	0	0
Piano 1	SLD 12	994	3313	-21315	0	0	0	0	0	0
Piano 1	SLD 13	3313	-994	-21315	0	0	0	0	0	0
Piano 1	SLD 14	3313	-994	-21315	0	0	0	0	0	0
Piano 1	SLD 15	3313	994	-21315	0	0	0	0	0	0
Piano 1	SLD 16	3313	994	-21315	0	0	0	0	0	0
Piano 1	SLV 1	-8510	-2553	-21315	0	0	0	0	0	0
Piano 1	SLV 2	-8510	-2553	-21315	0	0	0	0	0	0
Piano 1	SLV 3	-8510	2553	-21315	0	0	0	0	0	0
Piano 1	SLV 4	-8510	2553	-21315	0	0	0	0	0	0
Piano 1	SLV 5	-2553	-8510	-21315	0	0	0	0	0	0
Piano 1	SLV 6	-2553	-8510	-21315	0	0	0	0	0	0
Piano 1	SLV 7	-2553	8510	-21315	0	0	0	0	0	0
Piano 1	SLV 8	-2553	8510	-21315	0	0	0	0	0	0
Piano 1	SLV 9	2553	-8510	-21315	0	0	0	0	0	0
Piano 1	SLV 10	2553	-8510	-21315	0	0	0	0	0	0
Piano 1	SLV 11	2553	8510	-21315	0	0	0	0	0	0
Piano 1	SLV 12	2553	8510	-21315	0	0	0	0	0	0
Piano 1	SLV 13	8510	-2553	-21315	0	0	0	0	0	0
Piano 1	SLV 14	8510	-2553	-21315	0	0	0	0	0	0
Piano 1	SLV 15	8510	2553	-21315	0	0	0	0	0	0
Piano 1	SLV 16	8510	2553	-21315	0	0	0	0	0	0
Piano 1	SLV FO 1	-8510	-2553	-21315	0	0	0	0	0	0
Piano 1	SLV FO 2	-8510	-2553	-21315	0	0	0	0	0	0
Piano 1	SLV FO 3	-8510	2553	-21315	0	0	0	0	0	0
Piano 1	SLV FO 4	-8510	2553	-21315	0	0	0	0	0	0
Piano 1	SLV FO 5	-2553	-8510	-21315	0	0	0	0	0	0
Piano 1	SLV FO 6	-2553	-8510	-21315	0	0	0	0	0	0
Piano 1	SLV FO 7	-2553	8510	-21315	0	0	0	0	0	0
Piano 1	SLV FO 8	-2553	8510	-21315	0	0	0	0	0	0
Piano 1	SLV FO 9	2553	-8510	-21315	0	0	0	0	0	0
Piano 1	SLV FO 10	2553	-8510	-21315	0	0	0	0	0	0
Piano 1	SLV FO 11	2553	8510	-21315	0	0	0	0	0	0
Piano 1	SLV FO 12	2553	8510	-21315	0	0	0	0	0	0
Piano 1	SLV FO 13	8510	-2553	-21315	0	0	0	0	0	0
Piano 1	SLV FO 14	8510	-2553	-21315	0	0	0	0	0	0
Piano 1	SLV FO 15	8510	2553	-21315	0	0	0	0	0	0
Piano 1	SLV FO 16	8510	2553	-21315	0	0	0	0	0	0
Piano 1	CRTFP Rig. Ux+	0	0	0	0	0	0	0	0	0
Piano 1	CRTFP Rig. Ux-	0	0	0	0	0	0	0	0	0
Piano 1	CRTFP Rig. Uy+	0	0	0	0	0	0	0	0	0
Piano 1	CRTFP Rig. Uy-	0	0	0	0	0	0	0	0	0
Piano 1	CRTFP Rig. Rz+	0	0	0	0	0	0	0	0	0

Livello	Cont.	Totale			Aste verticali			Pareti		
Nome	n.br.	F			F			F		
		X	Y	Z	X	Y	Z	X	Y	Z
Piano 1	CRTFP Rig. Rz-	0	0	0	0	0	0	0	0	0

43.7 Equilibrio forze

***Contributo**: Nome attribuito al sistema risultante.*
***Fx**: Componente X di traslazione del sistema risultante. [daN]*
***Fy**: Componente Y di traslazione del sistema risultante. [daN]*
***Fz**: Componente Z di traslazione del sistema risultante. [daN]*
***Mx**: Componente di momento attorno l'asse X del sistema risultante. [daN*cm]*
***My**: Componente di momento attorno l'asse Y del sistema risultante. [daN*cm]*
***Mz**: Componente di momento attorno l'asse Z del sistema risultante. [daN*cm]*

Bilancio in combinazione di carico: SLU 1

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	-68804.556	-48851235	88593181	0
Reazioni	0	0	68804.556	48851235	-88593181	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 2

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	1598.091	-47216.105	-34117331	62141176	2324402
Reazioni	0	-1598.091	47216.105	34117331	-62141176	-2324402
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 3

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	1598.091	-34427.105	-25037141	46861974	1355110
Reazioni	-1365.2	-1598.091	34427.105	25037141	-46861974	-1355110
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 4

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	0	-47489.556	-33717585	63127843	-1615487
Reazioni	-2275.334	0	47489.556	33717585	-63127843	1615487
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 5

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	958.855	-34536.485	-24877242	47256640	-220846
Reazioni	-2275.334	-958.855	34536.485	24877242	-47256640	220846
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 6

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	1598.091	-53762.855	-38765523	70193679	2324402
Reazioni	0	-1598.091	53762.855	38765523	-70193679	-2324402
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 7

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	1598.091	-40973.855	-29685333	54914476	1355110
Reazioni	-1365.2	-1598.091	40973.855	29685333	-54914476	-1355110
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 8

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	0	-54036.306	-38365777	71180346	-1615487
Reazioni	-2275.334	0	54036.306	38365777	-71180346	1615487
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 9

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	958.855	-41083.235	-29525435	55309143	-220846
Reazioni	-2275.334	-958.855	41083.235	29525435	-55309143	220846
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 10

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	-81898.056	-58147620	104698186	0
Reazioni	0	0	81898.056	58147620	-104698186	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 11

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	958.855	-68944.985	-49307277	88826983	1394641
Reazioni	0	-958.855	68944.985	49307277	-88826983	-1394641
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 12

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	0	-69109.056	-49067430	89418983	-969292
Reazioni	-1365.2	0	69109.056	49067430	-89418983	969292
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 13

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	958.855	-56155.985	-40227087	73547780	425349
Reazioni	-1365.2	-958.855	56155.985	40227087	-73547780	-425349
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 14

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	-74972.685	-53230606	96150897	0
Reazioni	0	0	74972.685	53230606	-96150897	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 15

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	1598.091	-53384.234	-38496702	69698892	2324402
Reazioni	0	-1598.091	53384.234	38496702	-69698892	-2324402
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 16

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	1598.091	-40595.234	-29416512	54419689	1355110
Reazioni	-1365.2	-1598.091	40595.234	29416512	-54419689	-1355110
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 17

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	0	-53657.685	-38096956	70685559	-1615487
Reazioni	-2275.334	0	53657.685	38096956	-70685559	1615487
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 18

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	958.855	-40704.614	-29256614	54814356	-220846
Reazioni	-2275.334	-958.855	40704.614	29256614	-54814356	220846
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 19

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	1598.091	-59930.984	-43144895	77751395	2324402
Reazioni	0	-1598.091	59930.984	43144895	-77751395	-2324402
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 20

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	1598.091	-47141.984	-34064705	62472192	1355110
Reazioni	-1365.2	-1598.091	47141.984	34064705	-62472192	-1355110
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 21

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	0	-60204.435	-42745149	78738061	-1615487
Reazioni	-2275.334	0	60204.435	42745149	-78738061	1615487
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 22

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	958.855	-47251.364	-33904806	62866858	-220846
Reazioni	-2275.334	-958.855	47251.364	33904806	-62866858	220846
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 23

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	-88066.185	-62526991	112255902	0
Reazioni	0	0	88066.185	62526991	-112255902	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 24

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	958.855	-75113.114	-53686649	96384699	1394641
Reazioni	0	-958.855	75113.114	53686649	-96384699	-1394641
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 25

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	0	-75277.185	-53446801	96976699	-969292
Reazioni	-1365.2	0	75277.185	53446801	-96976699	969292
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 26

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	958.855	-62324.114	-44606459	81105496	425349
Reazioni	-1365.2	-958.855	62324.114	44606459	-81105496	-425349
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 27

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	-89445.923	-63506605	115171136	0
Reazioni	0	0	89445.923	63506605	-115171136	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 28

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	1598.091	-67857.472	-48772701	88719131	2324402
Reazioni	0	-1598.091	67857.472	48772701	-88719131	-2324402
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 29

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	1598.091	-55068.472	-39692511	73439928	1355110
Reazioni	-1365.2	-1598.091	55068.472	39692511	-73439928	-1355110
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 30

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	0	-68130.923	-48372955	89705798	-1615487
Reazioni	-2275.334	0	68130.923	48372955	-89705798	1615487
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 31

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	958.855	-55177.852	-39532613	73834595	-220846
Reazioni	-2275.334	-958.855	55177.852	39532613	-73834595	220846
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 32

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	1598.091	-74404.222	-53420894	96771633	2324402
Reazioni	0	-1598.091	74404.222	53420894	-96771633	-2324402
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 33

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	1598.091	-61615.222	-44340704	81492430	1355110
Reazioni	-1365.2	-1598.091	61615.222	44340704	-81492430	-1355110
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 34

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	0	-74677.673	-53021148	97758300	-1615487
Reazioni	-2275.334	0	74677.673	53021148	-97758300	1615487
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 35

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	958.855	-61724.602	-44180805	81887097	-220846
Reazioni	-2275.334	-958.855	61724.602	44180805	-81887097	220846
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 36

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	-102539.423	-72802990	131276141	0
Reazioni	0	0	102539.423	72802990	-131276141	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 37

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	958.855	-89586.352	-63962648	115404938	1394641
Reazioni	0	-958.855	89586.352	63962648	-115404938	-1394641
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 38

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	0	-89750.423	-63722800	115996938	-969292
Reazioni	-1365.2	0	89750.423	63722800	-115996938	969292
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 39

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	958.855	-76797.352	-54882458	100125735	425349
Reazioni	-1365.2	-958.855	76797.352	54882458	-100125735	-425349
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 40

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	-95614.052	-67885977	122728851	0
Reazioni	0	0	95614.052	67885977	-122728851	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 41

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	1598.091	-74025.6	-53152073	96276847	2324402
Reazioni	0	-1598.091	74025.6	53152073	-96276847	-2324402
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 42

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	1598.091	-61236.6	-44071883	80997644	1355110
Reazioni	-1365.2	-1598.091	61236.6	44071883	-80997644	-1355110
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 43

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	0	-74299.052	-52752327	97263513	-1615487
Reazioni	-2275.334	0	74299.052	52752327	-97263513	1615487
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 44

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	958.855	-61345.981	-43911984	81392310	-220846
Reazioni	-2275.334	-958.855	61345.981	43911984	-81392310	220846
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 45

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	1598.091	-80572.35	-57800265	104329349	2324402
Reazioni	0	-1598.091	80572.35	57800265	-104329349	-2324402
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 46

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	1598.091	-67783.35	-48720075	89050146	1355110
Reazioni	-1365.2	-1598.091	67783.35	48720075	-89050146	-1355110
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 47

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	0	-80845.802	-57400519	105316016	-1615487

Contributo	Fx	Fy	Fz	Mx	My	Mz
Reazioni	-2275.334	0	80845.802	57400519	-105316016	1615487
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 48

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2275.334	958.855	-67892.731	-48560177	89444813	-220846
Reazioni	-2275.334	-958.855	67892.731	48560177	-89444813	220846
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 49

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	-108707.552	-77182362	138833856	0
Reazioni	0	0	108707.552	77182362	-138833856	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 50

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	958.855	-95754.481	-68342019	122962653	1394641
Reazioni	0	-958.855	95754.481	68342019	-122962653	-1394641
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 51

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	0	-95918.552	-68102172	123554654	-969292
Reazioni	-1365.2	0	95918.552	68102172	-123554654	969292
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLU 52

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1365.2	958.855	-82965.481	-59261829	107683451	425349
Reazioni	-1365.2	-958.855	82965.481	59261829	-107683451	-425349
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE rara 1

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	-72916.642	-51770816	93631658	0
Reazioni	0	0	72916.642	51770816	-93631658	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE rara 2

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	1065.394	-58524.341	-41948213	75996989	1549602
Reazioni	0	-1065.394	58524.341	41948213	-75996989	-1549602
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE rara 3

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	910.134	1065.394	-49998.341	-35894753	65810853	903407
Reazioni	-910.134	-1065.394	49998.341	35894753	-65810853	-903407
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE rara 4

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1516.889	0	-58706.642	-41681716	76654766	-1076991
Reazioni	-1516.889	0	58706.642	41681716	-76654766	1076991
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE rara 5

Contributo	Fx	Fy	Fz	Mx	My	Mz

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1516.889	639.237	-50071.261	-35788154	66073964	-147230
Reazioni	-1516.889	-639.237	50071.261	35788154	-66073964	147230
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE rara 6

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	1065.394	-62888.841	-45047008	81365324	1549602
Reazioni	0	-1065.394	62888.841	45047008	-81365324	-1549602
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE rara 7

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	910.134	1065.394	-54362.841	-38993548	71179188	903407
Reazioni	-910.134	-1065.394	54362.841	38993548	-71179188	-903407
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE rara 8

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1516.889	0	-63071.142	-44780511	82023101	-1076991
Reazioni	-1516.889	0	63071.142	44780511	-82023101	1076991
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE rara 9

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	1516.889	639.237	-54435.761	-38886949	71442299	-147230
Reazioni	-1516.889	-639.237	54435.761	38886949	-71442299	147230
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE rara 10

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	-81645.642	-57968406	104368328	0
Reazioni	0	0	81645.642	57968406	-104368328	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE rara 11

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	639.237	-73010.261	-52074844	93787526	929761
Reazioni	0	-639.237	73010.261	52074844	-93787526	-929761
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE rara 12

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	910.134	0	-73119.642	-51914946	94182193	-646195
Reazioni	-910.134	0	73119.642	51914946	-94182193	646195
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE rara 13

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	910.134	639.237	-64484.261	-46021384	83601391	283566
Reazioni	-910.134	-639.237	64484.261	46021384	-83601391	-283566
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE frequente 1

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	-72916.642	-51770816	93631658	0
Reazioni	0	0	72916.642	51770816	-93631658	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE frequente 2

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	213.079	-70038.182	-49806295	90104724	309920
Reazioni	0	-213.079	70038.182	49806295	-90104724	-309920
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE frequente 3

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	303.378	0	-70074.642	-49752996	90236280	-215398
Reazioni	-303.378	0	70074.642	49752996	-90236280	215398
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE frequente 4

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	-74662.442	-53010334	95778992	0
Reazioni	0	0	74662.442	53010334	-95778992	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLE quasi permanente 1

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	-72916.642	-51770816	93631658	0
Reazioni	0	0	72916.642	51770816	-93631658	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 1

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-3312.591	-993.777	-72916.642	-51314684	92111218	1200982
Reazioni	3312.591	993.777	72916.642	51314684	-92111218	-1200982
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 2

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-3312.591	-993.777	-72916.642	-51314684	92111218	1200982
Reazioni	3312.591	993.777	72916.642	51314684	-92111218	-1200982
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 3

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-3312.591	993.777	-72916.642	-52226948	92111218	3502898
Reazioni	3312.591	-993.777	72916.642	52226948	-92111218	-3502898
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 4

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-3312.591	993.777	-72916.642	-52226948	92111218	3502898
Reazioni	3312.591	-993.777	72916.642	52226948	-92111218	-3502898
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 5

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-993.777	-3312.591	-72916.642	-50250375	93175526	-3130945
Reazioni	993.777	3312.591	72916.642	50250375	-93175526	3130945
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 6

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-993.777	-3312.591	-72916.642	-50250375	93175526	-3130945
Reazioni	993.777	3312.591	72916.642	50250375	-93175526	3130945
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 7

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-993.777	3312.591	-72916.642	-53291256	93175526	4542109
Reazioni	993.777	-3312.591	72916.642	53291256	-93175526	-4542109
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 8

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-993.777	3312.591	-72916.642	-53291256	93175526	4542109
Reazioni	993.777	-3312.591	72916.642	53291256	-93175526	-4542109
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 9

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	993.777	-3312.591	-72916.642	-50250375	94087791	-4542109
Reazioni	-993.777	3312.591	72916.642	50250375	-94087791	4542109
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 10

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	993.777	-3312.591	-72916.642	-50250375	94087791	-4542109
Reazioni	-993.777	3312.591	72916.642	50250375	-94087791	4542109
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 11

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	993.777	3312.591	-72916.642	-53291256	94087791	3130945
Reazioni	-993.777	-3312.591	72916.642	53291256	-94087791	-3130945
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 12

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	993.777	3312.591	-72916.642	-53291256	94087791	3130945
Reazioni	-993.777	-3312.591	72916.642	53291256	-94087791	-3130945
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 13

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	3312.591	-993.777	-72916.642	-51314684	95152099	-3502898
Reazioni	-3312.591	993.777	72916.642	51314684	-95152099	3502898
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 14

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	3312.591	-993.777	-72916.642	-51314684	95152099	-3502898
Reazioni	-3312.591	993.777	72916.642	51314684	-95152099	3502898
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 15

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	3312.591	993.777	-72916.642	-52226948	95152099	-1200982
Reazioni	-3312.591	-993.777	72916.642	52226948	-95152099	1200982
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLD 16

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	3312.591	993.777	-72916.642	-52226948	95152099	-1200982
Reazioni	-3312.591	-993.777	72916.642	52226948	-95152099	1200982
PDelta	0	0	0	0	0	0

Contributo	Fx	Fy	Fz	Mx	My	Mz
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 1

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-8509.659	-2552.898	-72916.642	-50599066	89725824	3085181
Reazioni	8509.659	2552.898	72916.642	50599066	-89725824	-3085181
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 2

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-8509.659	-2552.898	-72916.642	-50599066	89725824	3085181
Reazioni	8509.659	2552.898	72916.642	50599066	-89725824	-3085181
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 3

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-8509.659	2552.898	-72916.642	-52942566	89725824	8998535
Reazioni	8509.659	-2552.898	72916.642	52942566	-89725824	-8998535
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 4

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-8509.659	2552.898	-72916.642	-52942566	89725824	8998535
Reazioni	8509.659	-2552.898	72916.642	52942566	-89725824	-8998535
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 5

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-2552.898	-8509.659	-72916.642	-47864982	92459908	-8043032
Reazioni	2552.898	8509.659	72916.642	47864982	-92459908	8043032
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 6

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-2552.898	-8509.659	-72916.642	-47864982	92459908	-8043032
Reazioni	2552.898	8509.659	72916.642	47864982	-92459908	8043032
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 7

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-2552.898	8509.659	-72916.642	-55676650	92459908	11668147
Reazioni	2552.898	-8509.659	72916.642	55676650	-92459908	-11668147
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 8

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-2552.898	8509.659	-72916.642	-55676650	92459908	11668147
Reazioni	2552.898	-8509.659	72916.642	55676650	-92459908	-11668147
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 9

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2552.898	-8509.659	-72916.642	-47864982	94803409	-11668147
Reazioni	-2552.898	8509.659	72916.642	47864982	-94803409	11668147
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 10

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2552.898	-8509.659	-72916.642	-47864982	94803409	-11668147
Reazioni	-2552.898	8509.659	72916.642	47864982	-94803409	11668147

Contributo	Fx	Fy	Fz	Mx	My	Mz
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 11

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2552.898	8509.659	-72916.642	-55676650	94803409	8043032
Reazioni	-2552.898	-8509.659	72916.642	55676650	-94803409	-8043032
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 12

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2552.898	8509.659	-72916.642	-55676650	94803409	8043032
Reazioni	-2552.898	-8509.659	72916.642	55676650	-94803409	-8043032
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 13

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	8509.659	-2552.898	-72916.642	-50599066	97537492	-8998535
Reazioni	-8509.659	2552.898	72916.642	50599066	-97537492	8998535
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 14

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	8509.659	-2552.898	-72916.642	-50599066	97537492	-8998535
Reazioni	-8509.659	2552.898	72916.642	50599066	-97537492	8998535
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 15

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	8509.659	2552.898	-72916.642	-52942566	97537492	-3085181
Reazioni	-8509.659	-2552.898	72916.642	52942566	-97537492	3085181
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV 16

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	8509.659	2552.898	-72916.642	-52942566	97537492	-3085181
Reazioni	-8509.659	-2552.898	72916.642	52942566	-97537492	3085181
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 1

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-8509.659	-2552.898	-72916.642	-50599066	89725824	3085181
Reazioni	8509.659	2552.898	72916.642	50599066	-89725824	-3085181
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 2

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-8509.659	-2552.898	-72916.642	-50599066	89725824	3085181
Reazioni	8509.659	2552.898	72916.642	50599066	-89725824	-3085181
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 3

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-8509.659	2552.898	-72916.642	-52942566	89725824	8998535
Reazioni	8509.659	-2552.898	72916.642	52942566	-89725824	-8998535
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 4

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-8509.659	2552.898	-72916.642	-52942566	89725824	8998535
Reazioni	8509.659	-2552.898	72916.642	52942566	-89725824	-8998535
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 5

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-2552.898	-8509.659	-72916.642	-47864982	92459908	-8043032
Reazioni	2552.898	8509.659	72916.642	47864982	-92459908	8043032
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 6

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-2552.898	-8509.659	-72916.642	-47864982	92459908	-8043032
Reazioni	2552.898	8509.659	72916.642	47864982	-92459908	8043032
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 7

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-2552.898	8509.659	-72916.642	-55676650	92459908	11668147
Reazioni	2552.898	-8509.659	72916.642	55676650	-92459908	-11668147
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 8

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	-2552.898	8509.659	-72916.642	-55676650	92459908	11668147
Reazioni	2552.898	-8509.659	72916.642	55676650	-92459908	-11668147
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 9

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2552.898	-8509.659	-72916.642	-47864982	94803409	-11668147
Reazioni	-2552.898	8509.659	72916.642	47864982	-94803409	11668147
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 10

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2552.898	-8509.659	-72916.642	-47864982	94803409	-11668147
Reazioni	-2552.898	8509.659	72916.642	47864982	-94803409	11668147
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 11

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2552.898	8509.659	-72916.642	-55676650	94803409	8043032
Reazioni	-2552.898	-8509.659	72916.642	55676650	-94803409	-8043032
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 12

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	2552.898	8509.659	-72916.642	-55676650	94803409	8043032
Reazioni	-2552.898	-8509.659	72916.642	55676650	-94803409	-8043032
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 13

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	8509.659	-2552.898	-72916.642	-50599066	97537492	-8998535
Reazioni	-8509.659	2552.898	72916.642	50599066	-97537492	8998535
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 14

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	8509.659	-2552.898	-72916.642	-50599066	97537492	-8998535
Reazioni	-8509.659	2552.898	72916.642	50599066	-97537492	8998535
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 15

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	8509.659	2552.898	-72916.642	-52942566	97537492	-3085181
Reazioni	-8509.659	-2552.898	72916.642	52942566	-97537492	3085181
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: SLV fondazioni 16

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	8509.659	2552.898	-72916.642	-52942566	97537492	-3085181
Reazioni	-8509.659	-2552.898	72916.642	52942566	-97537492	3085181
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: Calcolo rigidezza torsionale/flessionale di piano Rig. Ux+

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	0	0	0	0
Reazioni	0	0	0	0	0	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: Calcolo rigidezza torsionale/flessionale di piano Rig. Ux-

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	0	0	0	0
Reazioni	0	0	0	0	0	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: Calcolo rigidezza torsionale/flessionale di piano Rig. Uy+

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	0	0	0	0
Reazioni	0	0	0	0	0	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: Calcolo rigidezza torsionale/flessionale di piano Rig. Uy-

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	0	0	0	0
Reazioni	0	0	0	0	0	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: Calcolo rigidezza torsionale/flessionale di piano Rig. Rz+

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	0	0	0	0
Reazioni	0	0	0	0	0	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in combinazione di carico: Calcolo rigidezza torsionale/flessionale di piano Rig. Rz-

Contributo	Fx	Fy	Fz	Mx	My	Mz
Applicate	0	0	0	0	0	0
Reazioni	0	0	0	0	0	0
PDelta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

43.8 Annotazioni solutore

***Informazioni**: Informazioni fornite dal solutore al termine del calcolo del modello.*

Informazioni

43.9 Statistiche soluzione

Tipo di equazioni	Non lineari
Tecnica di soluzione	Matrici sparse
Numero equazioni	576
Elemento minimo diagonale	275246.96718367
Elemento massimo	3.849730333E010
Rapporto max/min	139864.58680536
Elementi non nulli	7548

44 Verifiche aste in acciaio

Fy: tensione di snervamento
Fy eff: tensione di snervamento efficace del materiale del profilo tale da modificare il parametro epsilon=(235/fy)0.5 in modo da riportare i rapporti lunghezza spessore dei piatti costituenti la sezione nei limiti della classe 3
lambda: snellezza massima dell'asta
betax: coefficiente di inflessione laterale per inerzia secondo asse X dell'asta
betay: coefficiente di inflessione laterale per inerzia secondo asse Y dell'asta
betam: coefficiente di inflessione laterale per inerzia secondo asse M dell'asta
betan: coefficiente di inflessione laterale per inerzia secondo asse N dell'asta
chi: coefficiente chi per verifica ad instabilità
chix: coefficiente chi.x per verifica ad instabilità secondo asse X dell'asta
chiy: coefficiente chi.y per verifica ad instabilità secondo asse Y dell'asta
chilt: coefficiente chi.lt per verifica ad instabilità flessotorsionale
lambdalt.ad: coefficiente adimensionale lambda.lt per verifica ad instabilità flessotorsionale
bm.x: coefficiente di momento equivalente per Mx
bm.y: coefficiente di momento equivalente per My
bm.lt: coefficiente di momento equivalente per instabilità flessotorsionale
kx: coefficiente per verifica ad instabilità secondo asse X dell'asta
ky: coefficiente per verifica ad instabilità secondo asse Y dell'asta
klt: coefficiente per verifica ad instabilità flessotorsionale
rox: rapporto di taglio ro per verifica di resistenza per flessione e/o compressione con taglio x
roy: rapporto di taglio ro per verifica di resistenza per flessione e/o compressione con taglio y
alfa: costante alfa per verifica di resistenza a flessione deviata
beta: costante beta per verifica di resistenza a flessione deviata
VEd: taglio agente
Vx,Ed: taglio agente Tx
Vy,Ed: taglio agente Ty
Vc,Rd: taglio resistente
Vbw,Rd: taglio resistente di progetto dell'anima
Mx,Ed: momento agente Mx attorno all'asse x del sistema di riferimento geometrico della sezione
My,Ed: momento agente My attorno all'asse y del sistema di riferimento geometrico della sezione
Mc,x,Rd: momento resistente Mx attorno all'asse x del sistema di riferimento geometrico della sezione
Mc,y,Rd: momento resistente My attorno all'asse y del sistema di riferimento geometrico della sezione
Mn,x,Rd: momento resistente Mx, ridotto per la presenza di sforzo normale, attorno all'asse x del sistema di riferimento geometrico della sezione
Mn,y,Rd: momento resistente My, ridotto per la presenza di sforzo normale, attorno all'asse y del sistema di riferimento geometrico della sezione
Npl,Rd: sforzo normale plastico resistente a compressione, eventualmente ridotto per la presenza del taglio
Mb,Rd: momento resistente di progetto per instabilità
Mb,x,Rd: momento resistente di progetto per instabilità Mx attorno all'asse x del sistema di riferimento geometrico della sezione
Mb,y,Rd: momento resistente di progetto per instabilità Mx attorno all'asse y del sistema di riferimento geometrico della sezione
Mx,Sd: momento agente Mx attorno all'asse x del sistema di riferimento geometrico della sezione
My,Sd: momento agente My attorno all'asse y del sistema di riferimento geometrico della sezione
Mx,eff,Sd: momento interno efficace Mx attorno all'asse x del sistema di riferimento geometrico della sezione
NEd: sforzo normale agente
Nt,Rd: sforzo normale resistente a trazione
Nc,Rd: sforzo normale resistente a compressione
Nb,Rd: resistenza di progetto per instabilità della membratura compressa
Nsd: sforzo normale agente
Nt,Sd: valore di progetto della trazione assiale
TEd: momento torcente agente (si considera che il momento torcente del solutore sia solo dovuto alla torsione uniforme)
TRd: resistenza torsionale di progetto
taut,Ed: tensione tangenziale massima dovuta alla torsione uniforme
R1: rapporto di verifica di resistenza a trazione
R2: rapporto di verifica di resistenza a compressione
R3: rapporto di verifica di resistenza a flessione semplice
R4: rapporto di verifica di resistenza a flessione semplice con forza assiale
R5: rapporto di verifica di resistenza a flessione deviata con forza assiale
R6: rapporto di verifica di resistenza a taglio Tx
R7: rapporto di verifica di resistenza a taglio Ty
R8: rapporto di verifica di resistenza a torsione
B1: rapporto di verifica di instabilità a compressione
B2: rapporto di verifica di instabilità a flessione semplice
B3: rapporto di verifica di instabilità a flessione deviata senza svergolamento
B4: rapporto di verifica di instabilità a flessione deviata con compressione senza svergolamento
B5: rapporto di verifica di resistenza a flessione deviata con trazione
B6: rapporto di verifica di instabilità a taglio Tx
B7: rapporto di verifica di instabilità a taglio Tx
S3: rapporto di verifica di instabilità a flessione deviata e svergolamento
S4: rapporto di verifica di instabilità a flessione deviata con compressione e svergolamento
(hw/tw): rapporto altezza-spessore per instabilità al taglio
Mpl,Rd: momento resistente della sezione
Mf,Rd: momento resistente delle ali
MRd,Red: momento resistente ridotto della sezione (7.1) EN 1993-1-5:2007
B8: rapporto Vsd.x/Vrd di verifica di instabilità a taglio Tx con tensioni normali per My<=Mf,Rd

B9.1: rapporto Vsd.x/Vrd di verifica di instabilità a taglio Tx con tensioni normali per My>Mf,Rd e Vx,Ed/Vbw,Rd<=0.5
B9.2: rapporto My/Mrd di verifica di instabilità a taglio Tx con tensioni normali per My>Mf,Rd e Vx,Ed/Vbw,Rd<=0.5
B10.1: rapporto Vsd.x/Vrd di verifica di instabilità a taglio Tx con tensioni normali per My>Mf,Rd e Vx,Ed/Vbw,Rd>0.5
B10.2: rapporto My/Mrd di verifica di instabilità a taglio Tx con tensioni normali per My>Mf,Rd e Vx,Ed/Vbw,Rd>0.5
B10.3: rapporto My/Mrd.red di verifica di instabilità a taglio Tx con tensioni normali per My>Mf,Rd e Vx,Ed/Vbw,Rd>0.5
B11: rapporto Vsd.y/Vrd di verifica di instabilità a taglio Ty con tensioni normali per Mx<=Mf,Rd
B12.1: rapporto Vsd.y/Vrd di verifica di instabilità a taglio Ty con tensioni normali per Mx>Mf,Rd e Vy,Ed/Vbw,Rd<=0.5
B12.2: rapporto Mx/Mrd di verifica di instabilità a taglio Ty con tensioni normali per Mx>Mf,Rd e Vy,Ed/Vbw,Rd<=0.5
B13.1: rapporto Vsd.y/Vrd di verifica di instabilità a taglio Ty con tensioni normali per Mx>Mf,Rd e Vy,Ed/Vbw,Rd>0.5
B13.2: rapporto Mx/Mrd di verifica di instabilità a taglio Ty con tensioni normali per Mx>Mf,Rd e Vy,Ed/Vbw,Rd>0.5
B13.3: rapporto Mx/Mrd.red di verifica di instabilità a taglio Ty con tensioni normali per Mx>Mf,Rd e Vy,Ed/Vbw,Rd>0.5
fx: freccia elastica secondo l'asse x del sistema di riferimento geometrico della sezione positiva se provoca spostamento in direzione opposto all'asse x stesso
fy: freccia elastica secondo l'asse y del sistema di riferimento geometrico della sezione positiva se provoca spostamento in direzione opposto all'asse y stesso
comb: combinazione di verifica
x: distanza della sezione di verifica dall'estremità iniziale dell'asta
e.x: distanza in x tra baricentro sezione geometrica - baricentro sezione efficace
e.y: distanza in y tra baricentro sezione geometrica - baricentro sezione efficace
dMsd.x: variazione del momento agente Mx causato da e.x
dMsd.y: variazione del momento agente causato My da e.y
chi.min: coefficiente chi minimo per verifica ad instabilità

Asta 1: Trave in acciaio (livello Fondazione filo 4) (falda Falda 1 filo 22)

```
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 387.5 Nodo iniziale n.45  Nodo finale n.56 Cerniera iniziale: Svincolo: M3 Cerniera finale: Svincolo: M3
Sezione: EN10219 219,1x8; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 52 curva X c curva Y c chix= 0.813 chiy= 0.904 Ncr,x=408554.375 Ncr,y=833784.5 betam=1 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.009 in comb. Famiglia "SLU" 5 x=387.484
rox =0 roy =0 NEd=1116.703 Nt,Rd=118742.633

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.026 in comb. Famiglia "SLV" 3 x=0
rox =0 roy =0 NEd=-3077.175 Nc,Rd=118742.633 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.084 in comb. Famiglia "SLU" 33 x=0
My,Ed=64562.504 Mc,y,Rd.y=767892.125
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.506 in comb. Famiglia "SLV" 7 x=0
NEd=-2665.82 My,Ed=371093.844 Npl,Rd=118742.633 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.474 in comb. Famiglia "SLV" 7 x=25.832
NEd=-2655.213 Mx,Ed=326.347 My,Ed=346256.906
Npl,Rd=118742.633 Mn,x,Rd=767892.25 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.022 in comb. Famiglia "SLV" 7 x=0
VEd=-961.471 Vc,Rd=43386.984

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0 in comb. Famiglia "SLU" 45 x=0
VEd=17.596 Vc,Rd=43386.781

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.006 in comb. Famiglia "SLV" 9 x=0
TEd=-4417.775 taut,Ed =7.889 TRd=723609.688

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.03 in comb. Famiglia "SLU" 49 x=0
NEd=-2860.195 Nb,Rd=96563.016
chi =0.813 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.135 in comb. Famiglia "SLV" 13 x=25.832 classe 1
Mx,Sd=326.347 My,Sd=-103674.617 Mb,x,Rd=767892.25 Mb,y,Rd=767892.125
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.316 in comb. Famiglia "SLV" 7 x=0 classe 1
NEd=-2665.82 Mx,Ed=1311.217 My,Ed=371093.844
NRk=124679.758 Mx,Rk=806286.813 My,Rk=806286.688
cm.x=0.95 cm.y=0.598 kxx=0.959 kxy=0.361 kyx=0.576 kyy=0.601
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 3 fx=-0.05 x=154.993 fy=0.003 x=193.742 rapp. luce/freccia = 7740.438; freccia < luce/400
```

Asta 2: Trave in acciaio (livello Fondazione filo 4) (falda Falda 1 filo 19)
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 515.9 Nodo iniziale n.45 Nodo finale n.68 Cerniera iniziale: Svincolo: M3 Cerniera finale: Svincolo: M3
Sezione: EN10219 219,1x8; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 69 curva X c curva Y c chix= 0.703 chiy= 0.835 Ncr,x=230474.688 Ncr,y=470356.5 betam=1 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.015 in comb. Famiglia "SLV" 3 x=515.902
rox =0 roy =0 NEd=1777.92 Nt,Rd=118742.633

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.039 in comb. Famiglia "SLV" 13 x=0
rox =0 roy =0 NEd=-4630.389 Nc,Rd=118742.633 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.033 in comb. Famiglia "SLU" 31 x=0
My,Ed=-25279.65 Mc,y,Rd.y=767892.125
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.32 in comb. Famiglia "SLV" 9 x=0
NEd=-3882.676 My,Ed=220764.891 Npl,Rd=118742.633 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.31 in comb. Famiglia "SLV" 9 x=17.197
NEd=-3876.752 Mx,Ed=1003.894 My,Ed=211699.344
Npl,Rd=118742.633 Mn,x,Rd=767892.25 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.013 in comb. Famiglia "SLV" 7 x=0
VEd=528.266 Vc,Rd=39978.672

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.002 in comb. Famiglia "SLU" 29 x=0
VEd=78.507 Vc,Rd=43130.324

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.084 in comb. Famiglia "SLV" 7 x=0
TEd=60772.988 taut,Ed =108.524 TRd=723609.688

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.034 in comb. Famiglia "SLU" 49 x=0
NEd=-2829.26 Nb,Rd=83428.781
chi =0.703 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.032 in comb. Famiglia "SLU" 31 x=17.197 classe 1
Mx,Sd=1305.063 My,Sd=-22911.789 Mb,x,Rd=767892.25 Mb,y,Rd=767892.125
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.193 in comb. Famiglia "SLV" 9 x=0 classe 1
NEd=-3882.676 Mx,Ed=7788.836 My,Ed=220764.891
NRk=124679.758 Mx,Rk=806286.813 My,Rk=806286.688
cm.x=0.95 cm.y=0.507 kxx=0.974 kxy=0.308 kyx=0.584 kyy=0.513
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 1 fx=0 x=189.164 fy=0.035 x=257.951 rapp. luce/freccia = 14861.925; freccia < luce/400

Asta 3: Trave in acciaio (livello Fondazione filo 5) (falda Falda 1 filo 23)
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 387.5 Nodo iniziale n.47 Nodo finale n.57 Cerniera iniziale: Svincolo: M3 Cerniera finale: Svincolo: M3
Sezione: EN10219 219,1x8; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 52 curva X c curva Y c chix= 0.813 chiy= 0.904 Ncr,x=408554.375 Ncr,y=833784.5 betam=1 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.022 in comb. Famiglia "SLU" 5 x=387.484
rox =0 roy =0 NEd=2597.459 Nt,Rd=118742.633

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.035 in comb. Famiglia "SLU" 49 x=0
rox =0 roy =0 NEd=-4171.312 Nc,Rd=118742.633 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.085 in comb. Famiglia "SLU" 15 x=0
My,Ed=65547.188 Mc,y,Rd.y=767892.125
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.504 in comb. Famiglia "SLV" 5 x=0
NEd=-2484.014 My,Ed=-370765.625 Npl,Rd=118742.633 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.472 in comb. Famiglia "SLV" 5 x=25.832

NEd=-2473.407 Mx,Ed=326.347 My,Ed=-345950.844
Npl,Rd=118742.633 Mn,x,Rd=767892.25 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.022 in comb. Famiglia "SLV" 9 x=0
VEd=960.635 Vc,Rd=43382.07

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0 in comb. Famiglia "SLU" 45 x=0
VEd=17.596 Vc,Rd=43601.66

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.006 in comb. Famiglia "SLV" 5 x=0
TEd=-4346.516 taut,Ed =7.762 TRd=723609.688

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.043 in comb. Famiglia "SLU" 49 x=0
NEd=-4171.312 Nb,Rd=96563.016
chi =0.813 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.08 in comb. Famiglia "SLU" 6 x=25.832 classe 1
Mx,Sd=326.347 My,Sd=61159.82 Mb,x,Rd=767892.25 Mb,y,Rd=767892.125
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.314 in comb. Famiglia "SLV" 5 x=0 classe 1
NEd=-2484.014 Mx,Ed=1311.217 My,Ed=370765.625
NRk=124679.758 Mx,Rk=806286.813 My,Rk=806286.688
cm.x=0.95 cm.y=0.598 kxx=0.959 kxy=0.361 kyx=0.575 kyy=0.601
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 3 fx=-0.067 x=167.91 fy=0.003 x=193.742 rapp. luce/freccia = 5743.588; freccia < luce/400

Asta 4: Trave in acciaio (livello Fondazione filo 5) (falda Falda 1 filo 20)
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 515.9 Nodo iniziale n.47 Nodo finale n.69 Cerniera iniziale: Svincolo: M3 Cerniera finale: Svincolo: M3
Sezione: EN10219 219,1x8; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 69 curva X c curva Y c chix= 0.703 chiy= 0.835 Ncr,x=230474.688 Ncr,y=470356.5 betam=1 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.027 in comb. Famiglia "SLU" 3 x=515.902
rox =0 roy =0 NEd=3211.503 Nt,Rd=118742.633

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.042 in comb. Famiglia "SLV" 13 x=0
rox =0 roy =0 NEd=-5019.643 Nc,Rd=118742.633 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.01 in comb. Famiglia "SLU" 8 x=257.951
Mx,Ed=7788.836 Mc,x,Rd=767892.25
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.313 in comb. Famiglia "SLV" 9 x=0
NEd=-3015.316 My,Ed=220957.234 Npl,Rd=118742.633 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.303 in comb. Famiglia "SLV" 9 x=17.197
NEd=-3009.392 Mx,Ed=1003.894 My,Ed=211881.547
Npl,Rd=118742.633 Mn,x,Rd=767892.25 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.013 in comb. Famiglia "SLV" 9 x=0
VEd=-527.757 Vc,Rd=39985.383

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.002 in comb. Famiglia "SLU" 29 x=0
VEd=78.507 Vc,Rd=42974.676

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.084 in comb. Famiglia "SLV" 9 x=0
TEd=-60661.699 taut,Ed =108.325 TRd=723609.688

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.058 in comb. Famiglia "SLU" 49 x=0
NEd=-4832.794 Nb,Rd=83428.781
chi =0.703 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.024 in comb. Famiglia "SLU" 13 x=223.557 classe 1
Mx,Sd=7650.368 My,Sd=-10691 Mb,x,Rd=767892.25 Mb,y,Rd=767892.125
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.184 in comb. Famiglia "SLV" 9 x=0 classe 1
NEd=-3015.316 Mx,Ed=7788.836 My,Ed=220957.234
NRk=124679.758 Mx,Rk=806286.813 My,Rk=806286.688
cm.x=0.95 cm.y=0.507 kxx=0.968 kxy=0.307 kyx=0.581 kyy=0.512
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 3 fx=0.056 x=206.361 fy=0.035 x=257.951 rapp. luce/freccia = 9292.839; freccia < luce/400

Asta 5: Trave in acciaio (livello Fondazione filo 6) (falda Falda 1 filo 24)
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 387.5 Nodo iniziale n.49 Nodo finale n.58 Cerniera iniziale: Svincolo: M3 Cerniera finale: Svincolo: M3
Sezione: EN10219 219,1x8; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 52 curva X c curva Y c chix= 0.813 chiy= 0.904 Ncr,x=408554.375 Ncr,y=833784.5 betam=1 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.01 in comb. Famiglia "SLU" 5 x=387.484
rox =0 roy =0 NEd=1175.42 Nt,Rd=118742.633

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.026 in comb. Famiglia "SLV" 1 x=0
rox =0 roy =0 NEd=-3077.175 Nc,Rd=118742.633 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.085 in comb. Famiglia "SLU" 2 x=0
My,Ed=65477.008 Mc,y,Rd.y=767892.125
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.506 in comb. Famiglia "SLV" 5 x=0
NEd=-2665.82 My,Ed=-371093.844 Npl,Rd=118742.633 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.474 in comb. Famiglia "SLV" 5 x=25.832
NEd=-2655.213 Mx,Ed=326.347 My,Ed=-346256.906
Npl,Rd=118742.633 Mn,x,Rd=767892.25 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.022 in comb. Famiglia "SLV" 5 x=0
VEd=961.471 Vc,Rd=43386.984

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0 in comb. Famiglia "SLU" 29 x=0
VEd=17.596 Vc,Rd=43600.355

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.006 in comb. Famiglia "SLV" 11 x=0
TEd=4417.775 taut,Ed =7.889 TRd=723609.688

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.03 in comb. Famiglia "SLU" 49 x=0
NEd=-2860.195 Nb,Rd=96563.016
chi =0.813 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.135 in comb. Famiglia "SLV" 15 x=25.832 classe 1
Mx,Sd=326.347 My,Sd=103674.617 Mb,x,Rd=767892.25 Mb,y,Rd=767892.125
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.316 in comb. Famiglia "SLV" 5 x=0 classe 1
NEd=-2665.82 Mx,Ed=1311.217 My,Ed=371093.844
NRk=124679.758 Mx,Rk=806286.813 My,Rk=806286.688
cm.x=0.95 cm.y=0.598 kxx=0.959 kxy=0.361 kyx=0.576 kyy=0.601
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 3 fx=-0.067 x=167.91 fy=0.003 x=193.742 rapp. luce/freccia = 5751.155; freccia < luce/400

Asta 6: Trave in acciaio (livello Fondazione filo 6) (falda Falda 1 filo 21)
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 515.9 Nodo iniziale n.49 Nodo finale n.70 Cerniera iniziale: Svincolo: M3 Cerniera finale: Svincolo: M3
Sezione: EN10219 219,1x8; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 69 curva X c curva Y c chix= 0.703 chiy= 0.835 Ncr,x=230474.688 Ncr,y=470356.5 betam=1 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.015 in comb. Famiglia "SLV" 1 x=515.902
rox =0 roy =0 NEd=1777.92 Nt,Rd=118742.633

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.039 in comb. Famiglia "SLV" 15 x=0
rox =0 roy =0 NEd=-4630.389 Nc,Rd=118742.633 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.05 in comb. Famiglia "SLU" 29 x=0

My,Ed=-38755.434 Mc,y,Rd.y=767892.125
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.32 in comb. Famiglia "SLV" 11 x=0
NEd=-3882.676 My,Ed=-220764.891 Npl,Rd=118742.633 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.31 in comb. Famiglia "SLV" 11 x=17.197
NEd=-3876.752 Mx,Ed=1003.894 My,Ed=-211699.344
Npl,Rd=118742.633 Mn,x,Rd=767892.25 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.013 in comb. Famiglia "SLV" 5 x=0
VEd=-528.266 Vc,Rd=39978.672

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.002 in comb. Famiglia "SLU" 33 x=0
VEd=78.507 Vc,Rd=42976.801

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.084 in comb. Famiglia "SLV" 5 x=0
TEd=-60772.988 taut,Ed =108.524 TRd=723609.688

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.034 in comb. Famiglia "SLU" 49 x=0
NEd=-2829.26 Nb,Rd=83428.781
chi =0.703 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.05 in comb. Famiglia "SLU" 29 x=17.197 classe 1
Mx,Sd=1305.063 My,Sd=-37144.176 Mb,x,Rd=767892.25 Mb,y,Rd=767892.125
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.193 in comb. Famiglia "SLV" 11 x=0 classe 1
NEd=-3882.676 Mx,Ed=7788.836 My,Ed=220764.891
NRk=124679.758 Mx,Rk=806286.813 My,Rk=806286.688
cm.x=0.95 cm.y=0.507 kxx=0.974 kxy=0.308 kyx=0.584 kyy=0.513
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 3 fx=0.055 x=206.361 fy=0.035 x=257.951 rapp. luce/freccia = 9297.234; freccia < luce/400

Asta 7: Trave in acciaio (livello Fondazione filo 1) (falda Falda 3 filo 16)
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 554.4 Nodo iniziale n.44 Nodo finale n.101 Cerniera iniziale: Svincolo: M3 Cerniera finale: Svincolo: M3
Sezione: EN10219 219,1x8; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 74 curva X c curva Y c chix= 0.668 chiy= 0.813 Ncr,x=199550.594 Ncr,y=407246.125 betam=1 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.025 in comb. Famiglia "SLU" 5 x=554.437
rox =0 roy =0 NEd=3005.974 Nt,Rd=118742.633

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.061 in comb. Famiglia "SLU" 49 x=0
rox =0 roy =0 NEd=-7186.141 Nc,Rd=118742.633 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.003 in comb. Famiglia "SLU" 30 x=314.181
Mx,Ed=2579.947 Mc,x,Rd=767892.25
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.545 in comb. Famiglia "SLV" 7 x=0
NEd=-5480.962 My,Ed=383292.188 Npl,Rd=118742.633 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.508 in comb. Famiglia "SLV" 7 x=36.962
NEd=-5465.691 Mx,Ed=502.879 My,Ed=354189.813
Npl,Rd=118742.633 Mn,x,Rd=767892.25 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.018 in comb. Famiglia "SLV" 11 x=0
VEd=-787.364 Vc,Rd=42713.609

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0 in comb. Famiglia "SLU" 29 x=0
VEd=18.95 Vc,Rd=43503.07

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.021 in comb. Famiglia "SLV" 5 x=0
TEd=-15510.92 taut,Ed =27.698 TRd=723609.688

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.091 in comb. Famiglia "SLU" 49 x=0
NEd=-7186.141 Nb,Rd=79338.711
chi =0.668 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.02 in comb. Famiglia "SLU" 48 x=295.7 classe 1
Mx,Sd=2614.969 My,Sd=12369.834 Mb,x,Rd=767892.25 Mb,y,Rd=767892.125
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.336 in comb. Famiglia "SLV" 7 x=0 classe 1
NEd=-5480.962 Mx,Ed=2020.495 My,Ed=383292.188
NRk=124679.758 Mx,Rk=806286.813 My,Rk=806286.688
cm.x=0.95 cm.y=0.544 kxx=0.989 kxy=0.333 kyx=0.593 kyy=0.555
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 6 fx=-0.098 x=221.775 fy=0.01 x=277.218 rapp. luce/freccia = 5664.415; freccia < luce/400

Asta 8: Trave in acciaio (livello Fondazione filo 2) (falda Falda 3 filo 17)
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 554.4 Nodo iniziale n.46 Nodo finale n.102 Cerniera iniziale: Svincolo: M3 Cerniera finale: Svincolo: M3
Sezione: EN10219 219,1x8; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 74 curva X c curva Y c chix= 0.668 chiy= 0.813 Ncr,x=199550.594 Ncr,y=407246.125 betam=1 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.063 in comb. Famiglia "SLU" 5 x=554.437
rox =0 roy =0 NEd=7426.338 Nt,Rd=118742.633

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.089 in comb. Famiglia "SLU" 49 x=0
rox =0 roy =0 NEd=-10625.008 Nc,Rd=118742.633 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.01 in comb. Famiglia "SLU" 32 x=554.437
My,Ed=-7725.818 Mc,y,Rd.y=767892.125
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.547 in comb. Famiglia "SLV" 5 x=0
NEd=-5696.956 My,Ed=-383134.375 Npl,Rd=118742.633 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.51 in comb. Famiglia "SLV" 5 x=36.962
NEd=-5681.685 Mx,Ed=502.879 My,Ed=-354042.156
Npl,Rd=118742.633 Mn,x,Rd=767892.25 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.018 in comb. Famiglia "SLV" 9 x=0
VEd=787.072 Vc,Rd=42708.473

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0 in comb. Famiglia "SLU" 29 x=0
VEd=18.95 Vc,Rd=43501.742

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.021 in comb. Famiglia "SLV" 9 x=0
TEd=-15513.557 taut,Ed =27.703 TRd=723609.688

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.134 in comb. Famiglia "SLU" 49 x=0
NEd=-10625.008 Nb,Rd=79338.711
chi =0.668 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.046 in comb. Famiglia "SLU" 41 x=184.812 classe 1
Mx,Sd=2334.794 My,Sd=32963.781 Mb,x,Rd=767892.25 Mb,y,Rd=767892.125
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.338 in comb. Famiglia "SLV" 5 x=0 classe 1
NEd=-5696.956 Mx,Ed=2020.495 My,Ed=383134.375
NRk=124679.758 Mx,Rk=806286.813 My,Rk=806286.688
cm.x=0.95 cm.y=0.544 kxx=0.99 kxy=0.333 kyx=0.594 kyy=0.556
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 6 fx=-0.098 x=221.775 fy=0.01 x=277.218 rapp. luce/freccia = 5641.919; freccia < luce/400

Asta 9: Trave in acciaio (livello Fondazione filo 3) (falda Falda 3 filo 18)
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 554.4 Nodo iniziale n.48 Nodo finale n.103 Cerniera iniziale: Svincolo: M3 Cerniera finale: Svincolo: M3
Sezione: EN10219 219,1x8; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 74 curva X c curva Y c chix= 0.668 chiy= 0.813 Ncr,x=199550.594 Ncr,y=407246.125 betam=1 betan=0.7

```
Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.026 in comb. Famiglia "SLU" 5 x=554.437
rox =0 roy =0 NEd=3065.308 Nt,Rd=118742.633

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.061 in comb. Famiglia "SLU" 49 x=0
rox =0 roy =0 NEd=-7186.141 Nc,Rd=118742.633 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.01 in comb. Famiglia "SLU" 46 x=554.437
My,Ed=-7695.809 Mc,y,Rd.y=767892.125
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.545 in comb. Famiglia "SLV" 5 x=0
NEd=-5480.962 My,Ed=-383292.188 Npl,Rd=118742.633 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.508 in comb. Famiglia "SLV" 5 x=36.962
NEd=-5465.691 Mx,Ed=502.879 My,Ed=-354189.813
Npl,Rd=118742.633 Mn,x,Rd=767892.25 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.018 in comb. Famiglia "SLV" 9 x=0
VEd=787.364 Vc,Rd=42713.609

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0 in comb. Famiglia "SLU" 45 x=0
VEd=18.95 Vc,Rd=43501.75

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.021 in comb. Famiglia "SLV" 7 x=0
TEd=15510.92 taut,Ed =27.698 TRd=723609.688

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.091 in comb. Famiglia "SLU" 49 x=0
NEd=-7186.141 Nb,Rd=79338.711
chi =0.668 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.029 in comb. Famiglia "SLU" 48 x=184.812 classe 1
Mx,Sd=2334.794 My,Sd=19758.563 Mb,x,Rd=767892.25 Mb,y,Rd=767892.125
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.336 in comb. Famiglia "SLV" 5 x=0 classe 1
NEd=-5480.962 Mx,Ed=2020.495 My,Ed=383292.188
NRk=124679.758 Mx,Rk=806286.813 My,Rk=806286.688
cm.x=0.95 cm.y=0.544 kxx=0.989 kxy=0.333 kyx=0.593 kyy=0.555
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 6 fx=-0.098 x=221.775 fy=0.01 x=277.218 rapp. luce/freccia = 5641.831; freccia < luce/400
```

Asta 10: Trave in acciaio (livello Fondazione filo 3) (falda Falda 5 filo 12)

```
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 552.7 Nodo iniziale n.48  Nodo finale n.85 Cerniera iniziale: Svincolo: M3 Cerniera finale: Svincolo: M3
Sezione: EN10219 219,1x8; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 74 curva X c curva Y c chix= 0.67 chiy= 0.814 Ncr,x=200824.531 Ncr,y=409846 betam=1 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.019 in comb. Famiglia "SLV" 1 x=552.675
rox =0 roy =0 NEd=2208.365 Nt,Rd=118742.633

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.014 in comb. Famiglia "SLV" 15 x=0
rox =0 roy =0 NEd=-1654.354 Nc,Rd=118742.633 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.046 in comb. Famiglia "SLV" 7 x=552.675
My,Ed=35526.879 Mc,y,Rd.y=767892.125
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.371 in comb. Famiglia "SLV" 5 x=0
NEd=1504.549 My,Ed=275079.188 Npl,Rd=118742.633 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.359 in comb. Famiglia "SLV" 5 x=18.423
NEd=1511.282 Mx,Ed=982.741 My,Ed=264756.406
Npl,Rd=118742.633 Mn,x,Rd=767892.25 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1
```

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.014 in comb. Famiglia "SLV" 7 x=0
VEd=561.911 Vc,Rd=39868.16

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.002 in comb. Famiglia "SLU" 22 x=0
VEd=-75.766 Vc,Rd=43330.535

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.087 in comb. Famiglia "SLV" 9 x=0
TEd=-62689.227 taut,Ed =111.945 TRd=723609.688

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.009 in comb. Famiglia "SLU" 4 x=0
NEd=-745.927 Nb,Rd=79526.016
chi =0.67 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.046 in comb. Famiglia "SLU" 45 x=128.958 classe 1
Mx,Sd=7092.681 My,Sd=-27971.068 Mb,x,Rd=767892.25 Mb,y,Rd=767892.125
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.215 in comb. Famiglia "SLV" 11 x=0 classe 1
NEd=-1152.512 Mx,Ed=7624.716 My,Ed=275028.25
NRk=124679.758 Mx,Rk=806286.813 My,Rk=806286.688
cm.x=0.95 cm.y=0.548 kxx=0.958 kxy=0.33 kyx=0.575 kyy=0.551
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 6 fx=0.07 x=221.07 fy=0.039 x=276.338 rapp. luce/freccia = 7843.918; freccia < luce/400

Asta 11: Trave in acciaio (livello Fondazione filo 2) (falda Falda 5 filo 11)
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 552.7 Nodo iniziale n.46 Nodo finale n.84 Cerniera iniziale: Svincolo: M3 Cerniera finale: Svincolo: M3
Sezione: EN10219 219,1x8; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 74 curva X c curva Y c chix= 0.67 chiy= 0.814 Ncr,x=200824.531 Ncr,y=409846 betam=1 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.018 in comb. Famiglia "SLV" 1 x=552.675
rox =0 roy =0 NEd=2126.095 Nt,Rd=118742.633

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.013 in comb. Famiglia "SLV" 13 x=0
rox =0 roy =0 NEd=-1595.597 Nc,Rd=118742.633 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.007 in comb. Famiglia "SLU" 19 x=552.675
My,Ed=5026.555 Mc,y,Rd.y=767892.125
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.364 in comb. Famiglia "SLV" 5 x=0
NEd=691.616 My,Ed=275118.75 Npl,Rd=118742.633 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.352 in comb. Famiglia "SLV" 5 x=18.423
NEd=698.349 Mx,Ed=982.741 My,Ed=264766
Npl,Rd=118742.633 Mn,x,Rd=767892.25 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.014 in comb. Famiglia "SLV" 9 x=0
VEd=-561.993 Vc,Rd=39867.449

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.002 in comb. Famiglia "SLU" 21 x=0
VEd=-75.766 Vc,Rd=43121.836

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.087 in comb. Famiglia "SLV" 5 x=0
TEd=-62620.977 taut,Ed =111.824 TRd=723609.688

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.013 in comb. Famiglia "SLU" 4 x=0
NEd=-1060.55 Nb,Rd=79526.016
chi =0.67 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.034 in comb. Famiglia "SLU" 45 x=276.338 classe 1
Mx,Sd=9912.132 My,Sd=-16505.35 Mb,x,Rd=767892.25 Mb,y,Rd=767892.125
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.206 in comb. Famiglia "SLV" 9 x=0 classe 1
NEd=-364.294 Mx,Ed=7624.716 My,Ed=275123.75
NRk=124679.758 Mx,Rk=806286.813 My,Rk=806286.688
cm.x=0.95 cm.y=0.548 kxx=0.953 kxy=0.329 kyx=0.572 kyy=0.549
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 6 fx=0.071 x=221.07 fy=0.039 x=276.338 rapp. luce/freccia = 7833.953; freccia < luce/400

Asta 12: Trave in acciaio (livello Fondazione filo 1) (falda Falda 5 filo 10)

Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 552.7 Nodo iniziale n.44 Nodo finale n.83 Cerniera iniziale: Svincolo: M3 Cerniera finale: Svincolo: M3
Sezione: EN10219 219,1x8; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 74 curva X c curva Y c chix= 0.67 chiy= 0.814 Ncr,x=200824.531 Ncr,y=409846 betam=1 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.019 in comb. Famiglia "SLV" 3 x=552.675
rox =0 roy =0 NEd=2208.365 Nt,Rd=118742.633

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.014 in comb. Famiglia "SLV" 13 x=0
rox =0 roy =0 NEd=-1654.354 Nc,Rd=118742.633 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.05 in comb. Famiglia "SLU" 45 x=0
My,Ed=-38071.672 Mc,y,Rd.y=767892.125
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.371 in comb. Famiglia "SLV" 7 x=0
NEd=1504.549 My,Ed=-275079.188 Npl,Rd=118742.633 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.359 in comb. Famiglia "SLV" 7 x=18.423
NEd=1511.282 Mx,Ed=982.741 My,Ed=-264756.406
Npl,Rd=118742.633 Mn,x,Rd=767892.25 Mn,y,Rd=767892.125
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.014 in comb. Famiglia "SLV" 5 x=0
VEd=-561.911 Vc,Rd=39868.16

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.002 in comb. Famiglia "SLU" 5 x=0
VEd=-75.766 Vc,Rd=43329.816

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.087 in comb. Famiglia "SLV" 11 x=0
TEd=62689.227 taut,Ed =111.945 TRd=723609.688

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.009 in comb. Famiglia "SLU" 4 x=0
NEd=-745.927 Nb,Rd=79526.016
chi =0.67 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.049 in comb. Famiglia "SLU" 45 x=18.423 classe 1
Mx,Sd=1277.564 My,Sd=-36635.031 Mb,x,Rd=767892.25 Mb,y,Rd=767892.125
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.215 in comb. Famiglia "SLV" 9 x=0 classe 1
NEd=-1152.512 Mx,Ed=7624.716 My,Ed=275028.25
NRk=124679.758 Mx,Rk=806286.813 My,Rk=806286.688
cm.x=0.95 cm.y=0.548 kxx=0.958 kxy=0.33 kyx=0.575 kyy=0.551
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 6 fx=0.071 x=221.07 fy=0.039 x=276.338 rapp. luce/freccia = 7826.296; freccia < luce/400

Asta 13: Trave in acciaio falda Falda 1 fili 25-22

Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 70.6 Nodo iniziale n.50 Nodo finale n.53 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 7 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=679305408 Ncr,y=99608344 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLV" 13 x=70.552
rox =0 roy =0 NEd=76.293 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 3 x=0
rox =0 roy =0 NEd=-55.239 Nc,Rd=488183.688 classe 0

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.003 in comb. Famiglia "SLV" 9 x=28.221
My,Ed=9026.994 Mc,y,Rd.y=2681022
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.01 in comb. Famiglia "SLV" 9 x=70.552

NEd=41.773 Mx,Ed=-10753.918 My,Ed=22567.484
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLV" 9 x=0
VEd=319.869 Vc,Rd=209853.547

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.003 in comb. Famiglia "SLU" 49 x=70.552
VEd=-338.131 Vc,Rd=103120.719

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.01 in comb. Famiglia "SLV" 5 x=70.552 classe 1
Mx,Sd=-11015.978 My,Sd=22537.801 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.103
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

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Asta 14: Trave in acciaio falda Falda 1 fili 25-22
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 65.5 Nodo iniziale n.53 Nodo finale n.56 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 6 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=787833472 Ncr,y=115522112 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLV" 13 x=65.513
rox =0 roy =0 NEd=207.077 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.001 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-310.055 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.008 in comb. Famiglia "SLU" 49 x=65.513
Mx,Ed=-70386.25 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.029 in comb. Famiglia "SLV" 9 x=65.513
NEd=142.933 Mx,Ed=-37174.395 My,Ed=64795.188
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLV" 7 x=0
VEd=-669.817 Vc,Rd=209853.547

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.008 in comb. Famiglia "SLU" 49 x=65.513
VEd=-866.768 Vc,Rd=103120.719

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.028 in comb. Famiglia "SLV" 5 x=65.513 classe 1
Mx,Sd=-38091.395 My,Sd=64748.047 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.06
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.019 in comb. Famiglia "SLV" 7 x=0 classe 1
NEd=-310.055 Mx,Ed=38115.309 My,Ed=60166.762
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.697 cm.y=0.708 kxx=0.697 kxy=0.425 kyx=0.667 kyy=0.708
chilt =1 lambdalt.ad =0.06 cmLT =0.697

Asta 15: Trave in acciaio falda Falda 1 fili 22-4
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 65.5 Nodo iniziale n.56 Nodo finale n.59 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 6 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=787833472 Ncr,y=115522112 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLV" 13 x=65.513
rox =0 roy =0 NEd=294.478 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-193.177 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.019 in comb. Famiglia "SLV" 7 x=17.47
My,Ed=-52003.945 Mc,y,Rd.y=2681022
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.008 in comb. Famiglia "SLU" 49 x=0
NEd=228.71 Mx,Ed=-70386.25 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.027 in comb. Famiglia "SLV" 9 x=0
NEd=189.269 Mx,Ed=-37174.395 My,Ed=60444.484
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 5 x=0
VEd=-250.752 Vc,Rd=209137.109

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.024 in comb. Famiglia "SLV" 3 x=0
VEd=2425.937 Vc,Rd=103015.156

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.009 in comb. Famiglia "SLV" 7 x=0
TEd=-1643.695 taut,Ed =11.017 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.027 in comb. Famiglia "SLV" 5 x=0 classe 1
Mx,Sd=-38091.395 My,Sd=60400.945 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.054
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=30.573 fy=0 x=19.654 rapp. luce/freccia = 1600552.671; freccia < luce/400

Asta 16: Trave in acciaio falda Falda 1 fili 4-19
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 40.3 Nodo iniziale n.59 Nodo finale n.62 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 4 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=2080372864 Ncr,y=305050560 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLV" 13 x=40.316
rox =0 roy =0 NEd=333.905 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-188.409 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.016 in comb. Famiglia "SLV" 5 x=0
My,Ed=43973.465 Mc,y,Rd.y=2681022
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.012 in comb. Famiglia "SLU" 49 x=40.316
NEd=258.13 Mx,Ed=105975.898 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.032 in comb. Famiglia "SLV" 7 x=40.316
NEd=-179.788 Mx,Ed=167399.109 My,Ed=-33196.383
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 5 x=0
VEd=-219.703 Vc,Rd=209137.109

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.022 in comb. Famiglia "SLV" 3 x=0
VEd=2310.761 Vc,Rd=103015.156

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.009 in comb. Famiglia "SLV" 7 x=0
TEd=-1643.695 taut,Ed =11.017 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.031 in comb. Famiglia "SLV" 7 x=40.316 classe 1
Mx,Sd=167399.109 My,Sd=-33196.383 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.04
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

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Asta 17: Trave in acciaio falda Falda 1 fili 4-19
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.62 Nodo finale n.65 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLV" 13 x=171.341
rox =0 roy =0 NEd=601.661 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.001 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-501.764 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.016 in comb. Famiglia "SLU" 14 x=165.63
Mx,Ed=141038.438 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.029 in comb. Famiglia "SLU" 49 x=171.341
NEd=358.049 Mx,Ed=253148.953 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.065 in comb. Famiglia "SLV" 3 x=171.341
NEd=-296.656 Mx,Ed=536559.438 My,Ed=-10772.886
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0 in comb. Famiglia "SLU" 19 x=0
VEd=47.779 Vc,Rd=209623.938

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.02 in comb. Famiglia "SLV" 3 x=0
VEd=2063.761 Vc,Rd=103015.156

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.009 in comb. Famiglia "SLV" 7 x=0
TEd=-1643.695 taut,Ed =11.017 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.051 in comb. Famiglia "SLV" 1 x=171.341 classe 1
Mx,Sd=418951.75 My,Sd=11041.465 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.159
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.051 in comb. Famiglia "SLV" 7 x=0 classe 1
NEd=-501.764 Mx,Ed=430884.875 My,Ed=35960.941
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.767 cm.y=0.969 kxx=0.767 kxy=0.581 kyx=0.774 kyy=0.969
chilt =1 lambdalt.ad =0.159 cmLT =0.767

Asta 18: Trave in acciaio falda Falda 1 fili 4-19
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 80.6 Nodo iniziale n.65 Nodo finale n.68 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 8 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=520093216 Ncr,y=76262640 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.002 in comb. Famiglia "SLV" 9 x=80.631
rox =0 roy =0 NEd=949.984 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.002 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-822.783 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.02 in comb. Famiglia "SLU" 5 x=80.631
Mx,Ed=-177942.297 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.03 in comb. Famiglia "SLU" 49 x=77.944
NEd=432.13 Mx,Ed=259555.672 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.081 in comb. Famiglia "SLV" 3 x=80.631
NEd=-517.504 Mx,Ed=659382.313 My,Ed=-16315.077
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 5 x=0
VEd=229.856 Vc,Rd=209137.109

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.015 in comb. Famiglia "SLV" 3 x=0
VEd=1591.727 Vc,Rd=103015.156

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.009 in comb. Famiglia "SLV" 7 x=0
TEd=-1643.695 taut,Ed =11.017 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994

B3 =0.063 in comb. Famiglia "SLV" 1 x=80.631 classe 1
Mx,Sd=507560.594 My,Sd=16605.461 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.087
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.073 in comb. Famiglia "SLV" 3 x=0 classe 1
NEd=-534.746 Mx,Ed=659382.313 My,Ed=16315.077
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.927 cm.y=0.864 kxx=0.927 kxy=0.518 kyx=0.682 kyy=0.864
chilt =1 lambdalt.ad =0.087 cmLT =0.927

Asta 19: Trave in acciaio falda Falda 1 fili 19-28
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 90.7 Nodo iniziale n.68 Nodo finale n.71 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 9 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=410937824 Ncr,y=60256904 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLV" 3 x=90.71
rox =0 roy =0 NEd=536.881 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.004 in comb. Famiglia "SLV" 13 x=0
rox =0 roy =0 NEd=-2012.037 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.013 in comb. Famiglia "SLU" 4 x=90.71
Mx,Ed=-119741.563 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.05 in comb. Famiglia "SLU" 49 x=90.71
NEd=-1318.285 Mx,Ed=421697.563 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.08 in comb. Famiglia "SLV" 3 x=90.71
NEd=536.881 Mx,Ed=658630.938 My,Ed=13102.579
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 7 x=0
VEd=203.496 Vc,Rd=209828.375

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.018 in comb. Famiglia "SLU" 49 x=0
VEd=1887.846 Vc,Rd=103119.805

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0 in comb. Famiglia "SLV" 11 x=0
TEd=-58.266 taut,Ed =0.391 TRd=192792.844

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.001 in comb. Famiglia "SLU" 47 x=0
NEd=-659.985 Nb,Rd=488183.688
chi =1 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.077 in comb. Famiglia "SLV" 7 x=90.71 classe 1
Mx,Sd=541481.688 My,Sd=43618.797 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.101
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.043 in comb. Famiglia "SLU" 49 x=0 classe 1
NEd=-1343.502 Mx,Ed=421697.563 My,Ed=2.591
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.85 cm.y=0.807 kxx=0.85 kxy=0.483 kyx=0.692 kyy=0.806
chilt =1 lambdalt.ad =0.092 cmLT =0.85

Asta 20: Trave in acciaio falda Falda 1 fili 19-28
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.71 Nodo finale n.77 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 3 x=171.341
rox =0 roy =0 NEd=360.731 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.004 in comb. Famiglia "SLV" 13 x=0
rox =0 roy =0 NEd=-1710.017 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.013 in comb. Famiglia "SLU" 4 x=0
Mx,Ed=-119747.258 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.069 in comb. Famiglia "SLU" 49 x=171.341
NEd=-1218.063 Mx,Ed=592493.75 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.08 in comb. Famiglia "SLV" 7 x=142.785
NEd=-475.824 Mx,Ed=516506.281 My,Ed=56502.363
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0 in comb. Famiglia "SLV" 9 x=0
VEd=-96.532 Vc,Rd=209833.438

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.015 in comb. Famiglia "SLV" 13 x=0
VEd=1577.806 Vc,Rd=103117.664

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0 in comb. Famiglia "SLV" 11 x=0
TEd=-58.266 taut,Ed =0.391 TRd=192792.844

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.001 in comb. Famiglia "SLU" 34 x=0
NEd=-402.414 Nb,Rd=488183.688
chi =1 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.026 in comb. Famiglia "SLU" 31 x=171.341 classe 1
Mx,Sd=-211251.609 My,Sd=5535.743 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.185
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.073 in comb. Famiglia "SLV" 7 x=0 classe 1
NEd=-506.357 Mx,Ed=541483.688 My,Ed=59079.078
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.984 cm.y=0.895 kxx=0.984 kxy=0.537 kyx=0.774 kyy=0.895
chilt =1 lambdalt.ad =0.187 cmLT =0.984

Asta 21: Trave in acciaio falda Falda 1 fili 19-28
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.77 Nodo finale n.80 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 5 x=171.341
rox =0 roy =0 NEd=349.115 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.003 in comb. Famiglia "SLV" 15 x=0
rox =0 roy =0 NEd=-1511.746 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.012 in comb. Famiglia "SLU" 4 x=0
Mx,Ed=-109476.984 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.071 in comb. Famiglia "SLU" 49 x=137.073
NEd=-1127.29 Mx,Ed=613699.625 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.08 in comb. Famiglia "SLV" 7 x=0
NEd=-750.817 Mx,Ed=507357.813 My,Ed=59079.078
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0 in comb. Famiglia "SLU" 46 x=171.341
VEd=-54.592 Vc,Rd=209850.625

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.011 in comb. Famiglia "SLV" 13 x=0
VEd=1146.495 Vc,Rd=103117.664

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0 in comb. Famiglia "SLV" 11 x=0
TEd=-58.266 taut,Ed =0.391 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994

```
B3 =0.073 in comb. Famiglia "SLV" 3 x=0 classe 1
Mx,Sd=587839.375 My,Sd=17725.15 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.178
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.071 in comb. Famiglia "SLU" 49 x=0 classe 1
NEd=-1165.396 Mx,Ed=613699.625 My,Ed=2.204
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.998 cm.y=0.565 kxx=0.997 kxy=0.339 kyx=0.774 kyy=0.565
chilt =1 lambdalt.ad =0.188 cmLT =0.998
```

Asta 22: Trave in acciaio falda Falda 1 fili 19-28

```
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.80  Nodo finale n.86 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 5 x=171.341
rox =0 roy =0 NEd=369.873 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.003 in comb. Famiglia "SLV" 15 x=0
rox =0 roy =0 NEd=-1300.416 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.012 in comb. Famiglia "SLU" 21 x=119.939
Mx,Ed=104563.195 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.071 in comb. Famiglia "SLU" 49 x=0
NEd=-1065.032 Mx,Ed=612515.938 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.068 in comb. Famiglia "SLV" 7 x=0
NEd=-942.051 Mx,Ed=394145.719 My,Ed=57985.633
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 7 x=0
VEd=-116.117 Vc,Rd=209828.375

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.015 in comb. Famiglia "SLV" 3 x=171.341
VEd=-1515.588 Vc,Rd=103117.25

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0 in comb. Famiglia "SLV" 11 x=0
TEd=-58.266 taut,Ed =0.391 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.055 in comb. Famiglia "SLV" 5 x=0 classe 1
Mx,Sd=299422.75 My,Sd=-58403.516 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.186
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.066 in comb. Famiglia "SLU" 49 x=0 classe 1
NEd=-1065.032 Mx,Ed=612515.938 My,Ed=2.864
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.925 cm.y=0.908 kxx=0.925 kxy=0.544 kyx=0.774 kyy=0.907
chilt =1 lambdalt.ad =0.181 cmLT =0.925
```

Asta 23: Trave in acciaio falda Falda 1 fili 19-28

```
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.86  Nodo finale n.89 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 5 x=171.341
rox =0 roy =0 NEd=395.895 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.003 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-1318.321 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.031 in comb. Famiglia "SLV" 9 x=137.073
Mx,Ed=278255.313 Mc,x,Rd=8919141
rox =0 roy =0 classe 1
```

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.056 in comb. Famiglia "SLU" 49 x=0
NEd=-964.614 Mx,Ed=481759.031 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.047 in comb. Famiglia "SLV" 9 x=0
NEd=-34.827 Mx,Ed=291207.313 My,Ed=-39356.953
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 5 x=0
VEd=282.091 Vc,Rd=209833.625

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.019 in comb. Famiglia "SLV" 3 x=171.341
VEd=-1995.717 Vc,Rd=103117.25

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0 in comb. Famiglia "SLV" 11 x=0
TEd=-58.266 taut,Ed =0.391 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.047 in comb. Famiglia "SLV" 9 x=0 classe 1
Mx,Sd=291207.313 My,Sd=-39356.953 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.187
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.044 in comb. Famiglia "SLU" 49 x=0 classe 1
NEd=-964.614 Mx,Ed=481759.031 My,Ed=71.669
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.78 cm.y=0.584 kxx=0.78 kxy=0.35 kyx=0.774 kyy=0.584
chilt =1 lambdalt.ad =0.161 cmLT =0.78

Asta 24: Trave in acciaio falda Falda 1 fili 19-28
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.89 Nodo finale n.98 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 5 x=171.341
rox =0 roy =0 NEd=424.79 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.003 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-1358.951 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.01 in comb. Famiglia "SLU" 47 x=0
Mx,Ed=91142.969 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.034 in comb. Famiglia "SLV" 5 x=148.496
NEd=356.302 My,Ed=89669.984 Npl,Rd=488183.688 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.088 in comb. Famiglia "SLV" 7 x=171.341
NEd=-1243.492 Mx,Ed=-420597.031 My,Ed=-102518.664
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLV" 11 x=0
VEd=-549.908 Vc,Rd=209828.172

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.026 in comb. Famiglia "SLU" 49 x=171.341
VEd=-2712.198 Vc,Rd=103119.805

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0 in comb. Famiglia "SLV" 11 x=0
TEd=-58.266 taut,Ed =0.391 TRd=192792.844

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.001 in comb. Famiglia "SLU" 40 x=79.959
NEd=-566.263 Nb,Rd=488183.688
chi =1 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.056 in comb. Famiglia "SLV" 1 x=171.341 classe 1
Mx,Sd=-398132.969 My,Sd=30556.984 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.144
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.063 in comb. Famiglia "SLV" 7 x=0 classe 1
NEd=-1280.132 Mx,Ed=420597.031 My,Ed=102518.664
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.654 cm.y=0.633 kxx=0.654 kxy=0.379 kyx=0.774 kyy=0.632
chilt =1 lambdalt.ad =0.147 cmLT =0.654

Asta 25: Trave in acciaio falda Falda 1 fili 26-23

Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 70.6 Nodo iniziale n.51 Nodo finale n.54 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 7 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=679305408 Ncr,y=99608344 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLV" 13 x=70.552
rox =0 roy =0 NEd=102.208 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 1 x=0
rox =0 roy =0 NEd=-64.77 Nc,Rd=488183.688 classe 0

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.004 in comb. Famiglia "SLU" 49 x=70.552
Mx,Ed=-31239.988 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.009 in comb. Famiglia "SLV" 5 x=70.552
NEd=-27.615 Mx,Ed=-17777.006 My,Ed=18765.895
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 5 x=0
VEd=265.985 Vc,Rd=209853.547

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.005 in comb. Famiglia "SLU" 49 x=70.552
VEd=-520.444 Vc,Rd=103120.719

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.009 in comb. Famiglia "SLV" 5 x=70.552 classe 1
Mx,Sd=-17777.006 My,Sd=18765.895 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.058
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

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Asta 26: Trave in acciaio falda Falda 1 fili 26-23

Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 65.5 Nodo iniziale n.54 Nodo finale n.57 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 6 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=787833472 Ncr,y=115522112 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLV" 13 x=65.513
rox =0 roy =0 NEd=199.179 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-231.031 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.013 in comb. Famiglia "SLU" 49 x=65.513
Mx,Ed=-120400.703 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.03 in comb. Famiglia "SLV" 5 x=65.513
NEd=-217.021 Mx,Ed=-60313.07 My,Ed=62252.844
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLV" 9 x=0
VEd=664.589 Vc,Rd=209853.547

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.014 in comb. Famiglia "SLU" 49 x=65.513
VEd=-1433.031 Vc,Rd=103120.719

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.03 in comb. Famiglia "SLV" 5 x=65.513 classe 1
Mx,Sd=-60313.07 My,Sd=62252.844 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.06
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2

B4 =0.022 in comb. Famiglia "SLV" 5 x=0 classe 1
NEd=-231.031 Mx,Ed=60313.07 My,Ed=62252.844
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.706 cm.y=0.721 kxx=0.706 kxy=0.432 kyx=0.667 kyy=0.72
chilt =1 lambdalt.ad =0.06 cmLT =0.706

Asta 27: Trave in acciaio falda Falda 1 fili 23-5
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 65.5 Nodo iniziale n.57 Nodo finale n.60 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 6 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=787833472 Ncr,y=115522112 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 49 x=65.513
rox =0 roy =0 NEd=392.069 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLU" 3 x=0
rox =0 roy =0 NEd=-185.872 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.018 in comb. Famiglia "SLV" 5 x=37.124
My,Ed=49353.711 Mc,y,Rd.y=2681022
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.014 in comb. Famiglia "SLU" 49 x=0
NEd=373.856 Mx,Ed=-120400.703 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.029 in comb. Famiglia "SLV" 5 x=0
NEd=-122.028 Mx,Ed=-60313.07 My,Ed=57973.477
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 5 x=0
VEd=-232.189 Vc,Rd=209136.984

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.025 in comb. Famiglia "SLV" 1 x=0
VEd=2592.727 Vc,Rd=103015.242

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.009 in comb. Famiglia "SLV" 9 x=0
TEd=1643.026 taut,Ed =11.012 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.028 in comb. Famiglia "SLV" 5 x=0 classe 1
Mx,Sd=-60313.07 My,Sd=57973.477 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.096
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=32.756 fy=0 x=24.021 rapp. luce/freccia = 657853.955; freccia < luce/400

Asta 28: Trave in acciaio falda Falda 1 fili 5-20
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 40.3 Nodo iniziale n.60 Nodo finale n.63 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 4 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=2080372864 Ncr,y=305050560 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 49 x=40.316
rox =0 roy =0 NEd=403.277 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLU" 3 x=0
rox =0 roy =0 NEd=-171.862 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.015 in comb. Famiglia "SLV" 9 x=13.439
My,Ed=40031.988 Mc,y,Rd.y=2681022
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.016 in comb. Famiglia "SLU" 49 x=40.316
NEd=403.277 Mx,Ed=134658.063 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.027 in comb. Famiglia "SLV" 1 x=40.316
NEd=-81.172 Mx,Ed=202703.469 My,Ed=10411.127
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 5 x=0
VEd=-201.14 Vc,Rd=209136.984

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.024 in comb. Famiglia "SLV" 1 x=0
VEd=2477.551 Vc,Rd=103015.242

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.009 in comb. Famiglia "SLV" 9 x=0
TEd=1643.026 taut,Ed =11.012 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.027 in comb. Famiglia "SLV" 1 x=40.316 classe 1
Mx,Sd=202703.469 My,Sd=10411.127 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.04
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Asta 29: Trave in acciaio falda Falda 1 fili 5-20
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.63 Nodo finale n.66 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 49 x=171.341
rox =0 roy =0 NEd=598.82 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.001 in comb. Famiglia "SLU" 3 x=0
rox =0 roy =0 NEd=-293.728 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.02 in comb. Famiglia "SLU" 4 x=171.341
Mx,Ed=-174217.547 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.037 in comb. Famiglia "SLU" 49 x=171.341
NEd=598.82 Mx,Ed=323284.156 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.064 in comb. Famiglia "SLV" 1 x=171.341
NEd=-147.417 Mx,Ed=530704.688 My,Ed=10809.894
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0 in comb. Famiglia "SLV" 9 x=0
VEd=8.771 Vc,Rd=209136.953

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.02 in comb. Famiglia "SLV" 1 x=0
VEd=2059.904 Vc,Rd=103015.242

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.009 in comb. Famiglia "SLV" 9 x=0
TEd=1643.026 taut,Ed =11.012 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.064 in comb. Famiglia "SLV" 1 x=171.341 classe 1
Mx,Sd=530704.688 My,Sd=10809.894 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.159
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.024 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-293.728 Mx,Ed=258310.266 My,Ed=1877.822
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.782 cm.y=0.931 kxx=0.782 kxy=0.558 kyx=0.774 kyy=0.931
chilt =1 lambdalt.ad =0.166 cmLT =0.782

Asta 30: Trave in acciaio falda Falda 1 fili 5-20
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 80.6 Nodo iniziale n.66 Nodo finale n.69 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 8 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=520093216 Ncr,y=76262640 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.002 in comb. Famiglia "SLV" 13 x=80.631
rox =0 roy =0 NEd=783.072 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.001 in comb. Famiglia "SLU" 3 x=0

rox =0 roy =0 NEd=-385.77 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.02 in comb. Famiglia "SLU" 4 x=0
Mx,Ed=-174203.703 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.038 in comb. Famiglia "SLU" 49 x=0
NEd=746.764 Mx,Ed=323266.938 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.078 in comb. Famiglia "SLV" 1 x=80.631
NEd=-253.087 Mx,Ed=639414.625 My,Ed=16428.742
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 5 x=0
VEd=232.058 Vc,Rd=209136.984

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.014 in comb. Famiglia "SLV" 1 x=0
VEd=1416.813 Vc,Rd=103015.242

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.009 in comb. Famiglia "SLV" 9 x=0
TEd=1643.026 taut,Ed =11.012 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.054 in comb. Famiglia "SLV" 5 x=80.631 classe 1
Mx,Sd=297359.844 My,Sd=54836.121 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.089
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.071 in comb. Famiglia "SLV" 1 x=0 classe 1
NEd=-270.329 Mx,Ed=639414.625 My,Ed=16428.742
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.934 cm.y=0.863 kxx=0.934 kxy=0.518 kyx=0.682 kyy=0.863
chilt =1 lambdalt.ad =0.087 cmLT =0.934

Asta 31: Trave in acciaio falda Falda 1 fili 27-24
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 70.6 Nodo iniziale n.52 Nodo finale n.55 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 7 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=679305408 Ncr,y=99608344 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLV" 15 x=70.552
rox =0 roy =0 NEd=76.293 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 1 x=0
rox =0 roy =0 NEd=-55.239 Nc,Rd=488183.688 classe 0

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.003 in comb. Famiglia "SLV" 11 x=28.221
My,Ed=-9026.994 Mc,y,Rd.y=2681022
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.01 in comb. Famiglia "SLV" 11 x=70.552
NEd=41.773 Mx,Ed=-10753.918 My,Ed=-22567.484
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLV" 11 x=0
VEd=-319.869 Vc,Rd=209853.547

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.003 in comb. Famiglia "SLU" 49 x=70.552
VEd=-338.131 Vc,Rd=103120.719

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.01 in comb. Famiglia "SLV" 7 x=70.552 classe 1
Mx,Sd=-11015.978 My,Sd=-22537.801 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.103
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

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Asta 32: Trave in acciaio falda Falda 1 fili 27-24
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 65.5 Nodo iniziale n.55 Nodo finale n.58 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 6 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=787833472 Ncr,y=115522112 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLV" 15 x=65.513
rox =0 roy =0 NEd=207.077 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.001 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-310.055 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.008 in comb. Famiglia "SLU" 49 x=65.513
Mx,Ed=-70386.25 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.029 in comb. Famiglia "SLV" 11 x=65.513
NEd=142.933 Mx,Ed=-37174.395 My,Ed=-64795.188
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLV" 5 x=0
VEd=669.817 Vc,Rd=209853.547

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.008 in comb. Famiglia "SLU" 49 x=65.513
VEd=-866.768 Vc,Rd=103120.719

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.028 in comb. Famiglia "SLV" 7 x=65.513 classe 1
Mx,Sd=-38091.395 My,Sd=-64748.047 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.06
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.019 in comb. Famiglia "SLV" 5 x=0 classe 1
NEd=-310.055 Mx,Ed=38115.309 My,Ed=60166.762
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.697 cm.y=0.708 kxx=0.697 kxy=0.425 kyx=0.667 kyy=0.708
chilt =1 lambdalt.ad =0.06 cmLT =0.697

Asta 33: Trave in acciaio falda Falda 1 fili 24-6
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 65.5 Nodo iniziale n.58 Nodo finale n.61 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 6 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=787833472 Ncr,y=115522112 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLV" 15 x=65.513
rox =0 roy =0 NEd=294.478 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-193.177 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.019 in comb. Famiglia "SLV" 5 x=17.47
My,Ed=52003.945 Mc,y,Rd.y=2681022
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.008 in comb. Famiglia "SLU" 49 x=0
NEd=228.71 Mx,Ed=-70386.25 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.027 in comb. Famiglia "SLV" 11 x=0
NEd=189.269 Mx,Ed=-37174.395 My,Ed=-60444.484
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 7 x=0
VEd=250.752 Vc,Rd=209137.109

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.024 in comb. Famiglia "SLV" 1 x=0
VEd=2425.937 Vc,Rd=103015.156

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.009 in comb. Famiglia "SLV" 5 x=0
TEd=1643.695 taut,Ed =11.017 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.027 in comb. Famiglia "SLV" 7 x=0 classe 1
Mx,Sd=-38091.395 My,Sd=-60400.945 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.054
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 3 fx=0 x=30.573 fy=0 x=37.124 rapp. luce/freccia = 658200.537; freccia < luce/400

Asta 34: Trave in acciaio falda Falda 1 fili 6-21
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 40.3 Nodo iniziale n.61 Nodo finale n.64 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 4 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=2080372864 Ncr,y=305050560 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLV" 15 x=40.316
rox =0 roy =0 NEd=333.905 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-188.409 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.016 in comb. Famiglia "SLV" 7 x=0
My,Ed=-43973.465 Mc,y,Rd.y=2681022
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.012 in comb. Famiglia "SLU" 49 x=40.316
NEd=258.13 Mx,Ed=105975.898 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.032 in comb. Famiglia "SLV" 5 x=40.316
NEd=-179.788 Mx,Ed=167399.109 My,Ed=33196.383
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 7 x=0
VEd=219.703 Vc,Rd=209137.109

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.022 in comb. Famiglia "SLV" 1 x=0
VEd=2310.761 Vc,Rd=103015.156

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.009 in comb. Famiglia "SLV" 5 x=0
TEd=1643.695 taut,Ed =11.017 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.031 in comb. Famiglia "SLV" 5 x=40.316 classe 1
Mx,Sd=167399.109 My,Sd=33196.383 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.04
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

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Asta 35: Trave in acciaio falda Falda 1 fili 6-21
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.64 Nodo finale n.67 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLV" 15 x=171.341
rox =0 roy =0 NEd=601.661 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.001 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-501.764 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.016 in comb. Famiglia "SLU" 14 x=165.63
Mx,Ed=141038.438 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.029 in comb. Famiglia "SLU" 49 x=171.341
NEd=358.049 Mx,Ed=253148.953 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.065 in comb. Famiglia "SLV" 1 x=171.341
NEd=-296.656 Mx,Ed=536559.438 My,Ed=10772.886
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0 in comb. Famiglia "SLV" 9 x=0
VEd=16.395 Vc,Rd=209136.672

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.02 in comb. Famiglia "SLV" 1 x=0
VEd=2063.761 Vc,Rd=103015.156

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.009 in comb. Famiglia "SLV" 5 x=0
TEd=1643.695 taut,Ed =11.017 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.051 in comb. Famiglia "SLV" 3 x=171.341 classe 1
Mx,Sd=418951.75 My,Sd=-11041.465 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.159
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.051 in comb. Famiglia "SLV" 5 x=0 classe 1
NEd=-501.764 Mx,Ed=430884.875 My,Ed=35960.941
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.767 cm.y=0.969 kxx=0.767 kxy=0.581 kyx=0.774 kyy=0.969
chilt =1 lambdalt.ad =0.159 cmLT =0.767

Asta 36: Trave in acciaio falda Falda 1 fili 6-21
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 80.6 Nodo iniziale n.67 Nodo finale n.70 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 8 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=520093216 Ncr,y=76262640 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.002 in comb. Famiglia "SLV" 11 x=80.631
rox =0 roy =0 NEd=949.984 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.002 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-822.783 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.013 in comb. Famiglia "SLU" 1 x=80.631
Mx,Ed=112538.195 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.03 in comb. Famiglia "SLU" 49 x=77.944
NEd=432.13 Mx,Ed=259555.672 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.081 in comb. Famiglia "SLV" 1 x=80.631
NEd=-517.504 Mx,Ed=659382.313 My,Ed=16315.077
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 7 x=0
VEd=-229.856 Vc,Rd=209137.109

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.015 in comb. Famiglia "SLV" 1 x=0
VEd=1591.727 Vc,Rd=103015.156

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.009 in comb. Famiglia "SLV" 5 x=0
TEd=1643.695 taut,Ed =11.017 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.063 in comb. Famiglia "SLV" 3 x=80.631 classe 1
Mx,Sd=507560.594 My,Sd=-16605.461 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.087
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.073 in comb. Famiglia "SLV" 1 x=0 classe 1
NEd=-534.746 Mx,Ed=659382.313 My,Ed=16315.077
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.927 cm.y=0.864 kxx=0.927 kxy=0.518 kyx=0.682 kyy=0.864
chilt =1 lambdalt.ad =0.087 cmLT =0.927

Asta 37: Trave in acciaio falda Falda 1 fili 21-30
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 90.7 Nodo iniziale n.70 Nodo finale n.73 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 9 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=410937824 Ncr,y=60256904 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLV" 1 x=90.71
rox =0 roy =0 NEd=536.881 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.004 in comb. Famiglia "SLV" 15 x=0
rox =0 roy =0 NEd=-2012.037 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.013 in comb. Famiglia "SLU" 4 x=90.71
Mx,Ed=-119741.563 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.05 in comb. Famiglia "SLU" 49 x=90.71
NEd=-1318.285 Mx,Ed=421697.563 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.08 in comb. Famiglia "SLV" 1 x=90.71
NEd=536.881 Mx,Ed=658630.938 My,Ed=-13102.579
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 5 x=0
VEd=-203.496 Vc,Rd=209828.375

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.018 in comb. Famiglia "SLU" 49 x=0
VEd=1887.846 Vc,Rd=103099.258

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 3 x=0
TEd=-166.488 taut,Ed =1.116 TRd=192792.844

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.001 in comb. Famiglia "SLU" 47 x=0
NEd=-659.985 Nb,Rd=488183.688
chi =1 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.077 in comb. Famiglia "SLV" 5 x=90.71 classe 1
Mx,Sd=541481.688 My,Sd=-43618.797 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.101
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.043 in comb. Famiglia "SLU" 49 x=0 classe 1
NEd=-1343.502 Mx,Ed=421697.563 My,Ed=2.591
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.85 cm.y=0.807 kxx=0.85 kxy=0.483 kyx=0.692 kyy=0.806
chilt =1 lambdalt.ad =0.092 cmLT =0.85

Asta 38: Trave in acciaio falda Falda 1 fili 21-30
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.73 Nodo finale n.79 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 3 x=171.341
rox =0 roy =0 NEd=459.851 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.004 in comb. Famiglia "SLV" 15 x=0
rox =0 roy =0 NEd=-1710.017 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.013 in comb. Famiglia "SLU" 4 x=0
Mx,Ed=-119747.258 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.069 in comb. Famiglia "SLU" 49 x=171.341
NEd=-1218.063 Mx,Ed=592493.75 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.08 in comb. Famiglia "SLV" 5 x=142.785
NEd=-475.824 Mx,Ed=516506.281 My,Ed=-56502.363
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0 in comb. Famiglia "SLV" 11 x=0
VEd=96.532 Vc,Rd=209833.438

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.015 in comb. Famiglia "SLV" 15 x=0
VEd=1577.806 Vc,Rd=103117.664

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08

R8 =0.001 in comb. Famiglia "SLU" 3 x=0
TEd=-166.488 taut,Ed =1.116 TRd=192792.844

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.001 in comb. Famiglia "SLU" 34 x=0
NEd=-402.414 Nb,Rd=488183.688
chi =1 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.026 in comb. Famiglia "SLU" 18 x=171.341 classe 1
Mx,Sd=-209773.531 My,Sd=6519.071 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.187
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.073 in comb. Famiglia "SLV" 5 x=0 classe 1
NEd=-506.357 Mx,Ed=541483.688 My,Ed=59079.078
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.984 cm.y=0.895 kxx=0.984 kxy=0.537 kyx=0.774 kyy=0.895
chilt =1 lambdalt.ad =0.187 cmLT =0.984

Asta 39: Trave in acciaio falda Falda 1 fili 21-30
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.79 Nodo finale n.82 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 3 x=171.341
rox =0 roy =0 NEd=498.061 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.003 in comb. Famiglia "SLV" 13 x=0
rox =0 roy =0 NEd=-1511.746 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.012 in comb. Famiglia "SLU" 4 x=0
Mx,Ed=-109476.984 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.071 in comb. Famiglia "SLU" 49 x=137.073
NEd=-1127.29 Mx,Ed=613699.625 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.08 in comb. Famiglia "SLV" 5 x=0
NEd=-750.817 Mx,Ed=507357.813 My,Ed=-59079.078
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0 in comb. Famiglia "SLU" 15 x=0
VEd=-8.82 Vc,Rd=209782.031

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.011 in comb. Famiglia "SLV" 15 x=0
VEd=1146.495 Vc,Rd=103117.664

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 3 x=0
TEd=-166.488 taut,Ed =1.116 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.073 in comb. Famiglia "SLV" 1 x=0 classe 1
Mx,Sd=587839.375 My,Sd=-17725.15 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.178
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.071 in comb. Famiglia "SLU" 49 x=0 classe 1
NEd=-1165.396 Mx,Ed=613699.625 My,Ed=2.204
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.998 cm.y=0.565 kxx=0.997 kxy=0.339 kyx=0.774 kyy=0.565
chilt =1 lambdalt.ad =0.188 cmLT =0.998

Asta 40: Trave in acciaio falda Falda 1 fili 21-30
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.82 Nodo finale n.88 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 3 x=171.341
rox =0 roy =0 NEd=525.502 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.003 in comb. Famiglia "SLV" 13 x=0
rox =0 roy =0 NEd=-1300.416 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.012 in comb. Famiglia "SLU" 21 x=119.939
Mx,Ed=104563.195 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.071 in comb. Famiglia "SLU" 49 x=0
NEd=-1065.032 Mx,Ed=612515.938 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.068 in comb. Famiglia "SLV" 5 x=0
NEd=-942.051 Mx,Ed=394145.719 My,Ed=-57985.633
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 5 x=0
VEd=116.117 Vc,Rd=209828.375

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.015 in comb. Famiglia "SLV" 1 x=171.341
VEd=-1515.588 Vc,Rd=103117.25

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 3 x=0
TEd=-166.488 taut,Ed =1.116 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.055 in comb. Famiglia "SLV" 7 x=0 classe 1
Mx,Sd=299422.75 My,Sd=58403.516 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.186
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.066 in comb. Famiglia "SLU" 49 x=0 classe 1
NEd=-1065.032 Mx,Ed=612515.938 My,Ed=2.864
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.925 cm.y=0.908 kxx=0.925 kxy=0.544 kyx=0.774 kyy=0.907
chilt =1 lambdalt.ad =0.181 cmLT =0.925

Asta 41: Trave in acciaio falda Falda 1 fili 21-30
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.88 Nodo finale n.91 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 3 x=171.341
rox =0 roy =0 NEd=543.726 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.003 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-1318.321 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.031 in comb. Famiglia "SLV" 11 x=137.073
Mx,Ed=278255.313 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.056 in comb. Famiglia "SLU" 49 x=0
NEd=-964.614 Mx,Ed=481759.031 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.047 in comb. Famiglia "SLV" 11 x=0
NEd=-34.827 Mx,Ed=291207.313 My,Ed=39356.953
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 7 x=0
VEd=-282.091 Vc,Rd=209833.625

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.019 in comb. Famiglia "SLV" 1 x=171.341
VEd=-1995.717 Vc,Rd=103117.25

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 3 x=0
TEd=-166.488 taut,Ed =1.116 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.047 in comb. Famiglia "SLV" 11 x=0 classe 1

Mx,Sd=291207.313 My,Sd=39356.953 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.187
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.044 in comb. Famiglia "SLU" 49 x=0 classe 1
NEd=-964.614 Mx,Ed=481759.031 My,Ed=71.669
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.78 cm.y=0.584 kxx=0.78 kxy=0.35 kyx=0.774 kyy=0.584
chilt =1 lambdalt.ad =0.161 cmLT =0.78

Asta 42: Trave in acciaio falda Falda 1 fili 21-30
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.91 Nodo finale n.100 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 5 x=171.341
rox =0 roy =0 NEd=557.195 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.003 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-1358.951 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.01 in comb. Famiglia "SLU" 47 x=0
Mx,Ed=91142.969 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.034 in comb. Famiglia "SLV" 7 x=148.496
NEd=356.302 My,Ed=-89669.984 Npl,Rd=488183.688 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.088 in comb. Famiglia "SLV" 5 x=171.341
NEd=-1243.492 Mx,Ed=-420597.031 My,Ed=102518.664
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLV" 9 x=0
VEd=549.908 Vc,Rd=209828.172

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.026 in comb. Famiglia "SLU" 49 x=171.341
VEd=-2712.198 Vc,Rd=103099.258

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 3 x=0
TEd=-166.488 taut,Ed =1.116 TRd=192792.844

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.001 in comb. Famiglia "SLU" 40 x=79.959
NEd=-566.263 Nb,Rd=488183.688
chi =1 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.056 in comb. Famiglia "SLV" 3 x=171.341 classe 1
Mx,Sd=-398132.969 My,Sd=-30556.984 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.144
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.063 in comb. Famiglia "SLV" 5 x=0 classe 1
NEd=-1280.132 Mx,Ed=420597.031 My,Ed=102518.664
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.654 cm.y=0.633 kxx=0.654 kxy=0.379 kyx=0.774 kyy=0.632
chilt =1 lambdalt.ad =0.147 cmLT =0.654

Asta 43: Trave in acciaio falda Falda 1 fili 20-29
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 90.7 Nodo iniziale n.69 Nodo finale n.72 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 9 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=410937824 Ncr,y=60256904 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.004 in comb. Famiglia "SLU" 3 x=90.71
rox =0 roy =0 NEd=1728.395 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.005 in comb. Famiglia "SLV" 13 x=0
rox =0 roy =0 NEd=-2367.896 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08

R3 =0.011 in comb. Famiglia "SLU" 43 x=90.71
Mx,Ed=-97205.688 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.07 in comb. Famiglia "SLU" 49 x=90.71
NEd=-2306.341 Mx,Ed=583729.438 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.082 in comb. Famiglia "SLV" 1 x=90.71
NEd=211.225 Mx,Ed=683558.813 My,Ed=-12835.796
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 9 x=0
VEd=-200.072 Vc,Rd=209832.156

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.03 in comb. Famiglia "SLU" 49 x=0
VEd=3131.817 Vc,Rd=103099.32

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 20 x=0
TEd=-167.269 taut,Ed =1.121 TRd=192792.844

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.001 in comb. Famiglia "SLU" 47 x=57.45
NEd=-400.959 Nb,Rd=488183.688
chi =1 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.081 in comb. Famiglia "SLV" 1 x=90.71 classe 1
Mx,Sd=683558.813 My,Sd=-12835.796 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.101
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.058 in comb. Famiglia "SLU" 49 x=0 classe 1
NEd=-2331.558 Mx,Ed=583729.438 My,Ed=0
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.815 cm.y=0.6 kxx=0.814 kxy=0.359 kyx=0.692 kyy=0.599
chilt =1 lambdalt.ad =0.09 cmLT =0.815

Asta 44: Trave in acciaio falda Falda 1 fili 20-29
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.72 Nodo finale n.78 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.003 in comb. Famiglia "SLU" 3 x=171.341
rox =0 roy =0 NEd=1645.866 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.004 in comb. Famiglia "SLU" 49 x=0
rox =0 roy =0 NEd=-2158.649 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.011 in comb. Famiglia "SLU" 43 x=0
Mx,Ed=-97198.781 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.103 in comb. Famiglia "SLU" 49 x=171.341
NEd=-2111.017 Mx,Ed=881714.688 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.082 in comb. Famiglia "SLV" 1 x=91.382
NEd=112.482 Mx,Ed=681562 My,Ed=-15406.024
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0 in comb. Famiglia "SLV" 9 x=0
VEd=-94.034 Vc,Rd=209832.156

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.019 in comb. Famiglia "SLU" 49 x=0
VEd=1928.424 Vc,Rd=103099.32

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 20 x=0
TEd=-167.269 taut,Ed =1.121 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.082 in comb. Famiglia "SLV" 1 x=85.671 classe 1

Mx,Sd=682102.125 My,Sd=-15245.386 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.189
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.091 in comb. Famiglia "SLU" 49 x=0 classe 1
NEd=-2158.649 Mx,Ed=881714.688 My,Ed=0
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.872 cm.y=0.6 kxx=0.872 kxy=0.36 kyx=0.774 kyy=0.599
chilt =1 lambdalt.ad =0.174 cmLT =0.872

Asta 45: Trave in acciaio falda Falda 1 fili 20-29
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.78 Nodo finale n.81 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.003 in comb. Famiglia "SLU" 5 x=171.341
rox =0 roy =0 NEd=1582.921 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.004 in comb. Famiglia "SLU" 49 x=0
rox =0 roy =0 NEd=-1963.679 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.013 in comb. Famiglia "SLU" 47 x=171.341
Mx,Ed=112708.25 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.11 in comb. Famiglia "SLU" 49 x=171.341
NEd=-1916.047 Mx,Ed=943003.5 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.085 in comb. Famiglia "SLU" 5 x=171.341
NEd=1582.921 Mx,Ed=-706487.188 My,Ed=5520.641
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0 in comb. Famiglia "SLU" 15 x=0
VEd=-8.006 Vc,Rd=209780.984

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.011 in comb. Famiglia "SLV" 13 x=0
VEd=1152.646 Vc,Rd=103117.914

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 20 x=0
TEd=-167.269 taut,Ed =1.121 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.082 in comb. Famiglia "SLV" 1 x=0 classe 1
Mx,Sd=668179.563 My,Sd=-17654.975 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.182
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.108 in comb. Famiglia "SLU" 49 x=0 classe 1
NEd=-1963.679 Mx,Ed=943003.5 My,Ed=0
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.981 cm.y=0.6 kxx=0.98 kxy=0.36 kyx=0.774 kyy=0.599
chilt =1 lambdalt.ad =0.187 cmLT =0.981

Asta 46: Trave in acciaio falda Falda 1 fili 20-29
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.81 Nodo finale n.87 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.003 in comb. Famiglia "SLU" 5 x=171.341
rox =0 roy =0 NEd=1532.37 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.004 in comb. Famiglia "SLU" 49 x=0
rox =0 roy =0 NEd=-1768.862 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.013 in comb. Famiglia "SLU" 47 x=74.248
Mx,Ed=118900.75 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08

R4 =0.109 in comb. Famiglia "SLU" 49 x=0
NEd=-1768.862 Mx,Ed=943004.125 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.084 in comb. Famiglia "SLU" 5 x=0
NEd=1495.729 Mx,Ed=-706488.5 My,Ed=5520.641
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 5 x=0
VEd=114.502 Vc,Rd=209831.609

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.015 in comb. Famiglia "SLV" 1 x=171.341
VEd=-1536.266 Vc,Rd=103117.031

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 20 x=0
TEd=-167.269 taut,Ed =1.121 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.067 in comb. Famiglia "SLV" 1 x=0 classe 1
Mx,Sd=541482.688 My,Sd=-17444.285 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.169
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.102 in comb. Famiglia "SLU" 49 x=0 classe 1
NEd=-1768.862 Mx,Ed=943004.125 My,Ed=0
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.932 cm.y=0.6 kxx=0.932 kxy=0.36 kyx=0.774 kyy=0.599
chilt =1 lambdalt.ad =0.182 cmLT =0.932

Asta 47: Trave in acciaio falda Falda 1 fili 20-29
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.87 Nodo finale n.90 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.003 in comb. Famiglia "SLU" 5 x=171.341
rox =0 roy =0 NEd=1482.077 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.003 in comb. Famiglia "SLU" 49 x=0
rox =0 roy =0 NEd=-1574.176 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.014 in comb. Famiglia "SLU" 52 x=102.805
Mx,Ed=120825.789 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.089 in comb. Famiglia "SLU" 49 x=0
NEd=-1574.176 Mx,Ed=767607.688 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.068 in comb. Famiglia "SLU" 3 x=0
NEd=1352.494 Mx,Ed=-567193.125 My,Ed=5444.572
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 9 x=0
VEd=272.885 Vc,Rd=209832.156

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.025 in comb. Famiglia "SLU" 49 x=171.341
VEd=-2594.398 Vc,Rd=103099.32

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 20 x=0
TEd=-167.269 taut,Ed =1.121 TRd=192792.844

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.001 in comb. Famiglia "SLV" 1 x=148.496
NEd=-258.811 Nb,Rd=488183.688
chi =1 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.019 in comb. Famiglia "SLU" 52 x=0 classe 1
Mx,Sd=161542.063 My,Sd=3322.483 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.166
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2

B4 =0.072 in comb. Famiglia "SLU" 49 x=0 classe 1
NEd=-1574.176 Mx,Ed=767607.688 My,Ed=0
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.794 cm.y=0.6 kxx=0.793 kxy=0.36 kyx=0.774 kyy=0.6
chilt =1 lambdalt.ad =0.164 cmLT =0.794

Asta 48: Trave in acciaio falda Falda 1 fili 20-29

Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 171.3 Nodo iniziale n.90 Nodo finale n.99 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=115176328 Ncr,y=16888610 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.003 in comb. Famiglia "SLU" 5 x=171.341
rox =0 roy =0 NEd=1431.929 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.003 in comb. Famiglia "SLU" 49 x=0
rox =0 roy =0 NEd=-1379.597 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.01 in comb. Famiglia "SLU" 12 x=39.98
Mx,Ed=86385.281 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.043 in comb. Famiglia "SLU" 49 x=0
NEd=-1379.597 Mx,Ed=355514.625 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.069 in comb. Famiglia "SLV" 1 x=171.341
NEd=-425.967 Mx,Ed=-509199.719 My,Ed=30774.951
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLV" 5 x=0
VEd=547.867 Vc,Rd=209831.609

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.039 in comb. Famiglia "SLU" 49 x=171.341
VEd=-3975.867 Vc,Rd=103099.32

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 20 x=0
TEd=-167.269 taut,Ed =1.121 TRd=192792.844

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.003 in comb. Famiglia "SLU" 23 x=97.093
NEd=-1236.391 Nb,Rd=488183.688
chi =1 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.015 in comb. Famiglia "SLU" 45 x=171.341 classe 1
Mx,Sd=-80907.938 My,Sd=-15927.117 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.244
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.052 in comb. Famiglia "SLV" 1 x=0 classe 1
NEd=-462.607 Mx,Ed=509199.719 My,Ed=30774.951
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.627 cm.y=0.632 kxx=0.627 kxy=0.379 kyx=0.774 kyy=0.631
chilt =1 lambdalt.ad =0.143 cmLT =0.627

Asta 49: Trave in acciaio falda Falda 2 fili 28-16

Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 170.1 Nodo iniziale n.98 Nodo finale n.101 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=116900096 Ncr,y=17141372 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 5 x=170.074
rox =0 roy =0 NEd=555.212 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.003 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-1617.383 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.022 in comb. Famiglia "SLU" 47 x=170.074
Mx,Ed=-192626.781 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08

R4 =0.091 in comb. Famiglia "SLU" 49 x=170.074
NEd=-1060.443 Mx,Ed=-795976.375 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.176 in comb. Famiglia "SLV" 7 x=170.074
NEd=-1608.822 Mx,Ed=-824683.125 My,Ed=-215906.891
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLV" 7 x=0
VEd=-669.433 Vc,Rd=205564.609

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.034 in comb. Famiglia "SLU" 49 x=170.074
VEd=-3504.85 Vc,Rd=102924.734

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.051 in comb. Famiglia "SLV" 11 x=0
TEd=9753.443 taut,Ed =65.371 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.042 in comb. Famiglia "SLV" 13 x=56.691 classe 1
Mx,Sd=233154.859 My,Sd=41806.961 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.167
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.138 in comb. Famiglia "SLV" 7 x=0 classe 1
NEd=-1617.383 Mx,Ed=824683.125 My,Ed=215906.891
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.798 cm.y=0.789 kxx=0.798 kxy=0.473 kyx=0.773 kyy=0.788
chilt =1 lambdalt.ad =0.165 cmLT =0.798

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=90.706 fy=-0.008 x=90.706 rapp. luce/freccia = 21341.903; freccia < luce/400

Asta 50: Trave in acciaio falda Falda 2 fili 29-17
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 170.1 Nodo iniziale n.99 Nodo finale n.102 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=116900096 Ncr,y=17141372 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.003 in comb. Famiglia "SLU" 5 x=170.074
rox =0 roy =0 NEd=1669.709 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.003 in comb. Famiglia "SLU" 49 x=0
rox =0 roy =0 NEd=-1656.026 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.012 in comb. Famiglia "SLU" 47 x=153.066
Mx,Ed=-108944.039 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.132 in comb. Famiglia "SLU" 49 x=170.074
NEd=-1644.897 Mx,Ed=-1148914 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.16 in comb. Famiglia "SLV" 5 x=170.074
NEd=-850.938 Mx,Ed=-693590.188 My,Ed=216734.453
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLV" 9 x=0
VEd=677.408 Vc,Rd=205583.469

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.051 in comb. Famiglia "SLU" 49 x=170.074
VEd=-5220.172 Vc,Rd=102947.609

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.05 in comb. Famiglia "SLV" 5 x=0
TEd=-9714.359 taut,Ed =65.109 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.037 in comb. Famiglia "SLU" 45 x=170.074 classe 1
Mx,Sd=-227297.781 My,Sd=-31925.072 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.156
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.126 in comb. Famiglia "SLV" 5 x=0 classe 1
NEd=-859.499 Mx,Ed=693590.188 My,Ed=216734.453

NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.74 cm.y=0.788 kxx=0.74 kxy=0.472 kyx=0.773 kyy=0.787
chilt =1 lambdalt.ad =0.157 cmLT =0.74

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=90.706 fy=-0.011 x=90.706 rapp. luce/freccia = 15353.584; freccia < luce/400

Asta 51: Trave in acciaio falda Falda 2 fili 30-18
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 170.1 Nodo iniziale n.100 Nodo finale n.103 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=116900096 Ncr,y=17141372 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 5 x=170.074
rox =0 roy =0 NEd=701.441 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.003 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-1617.383 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.022 in comb. Famiglia "SLU" 47 x=170.074
Mx,Ed=-192626.781 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.091 in comb. Famiglia "SLU" 49 x=170.074
NEd=-1060.443 Mx,Ed=-795976.375 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.176 in comb. Famiglia "SLV" 5 x=170.074
NEd=-1608.822 Mx,Ed=-824683.125 My,Ed=215906.891
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLV" 5 x=0
VEd=669.433 Vc,Rd=205564.609

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.034 in comb. Famiglia "SLU" 49 x=170.074
VEd=-3504.85 Vc,Rd=102946.352

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.051 in comb. Famiglia "SLV" 9 x=0
TEd=-9753.443 taut,Ed =65.371 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.042 in comb. Famiglia "SLV" 15 x=56.691 classe 1
Mx,Sd=233154.859 My,Sd=-41806.961 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.167
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.138 in comb. Famiglia "SLV" 5 x=0 classe 1
NEd=-1617.383 Mx,Ed=824683.125 My,Ed=215906.891
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.798 cm.y=0.789 kxx=0.798 kxy=0.473 kyx=0.773 kyy=0.788
chilt =1 lambdalt.ad =0.165 cmLT =0.798

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=90.706 fy=-0.008 x=90.706 rapp. luce/freccia = 21341.903; freccia < luce/400

Asta 52: Trave in acciaio falda Falda 3 fili 16-1
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 70.8 Nodo iniziale n.101 Nodo finale n.95 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 7 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=675460800 Ncr,y=99044608 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.002 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=751.404 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.001 in comb. Famiglia "SLV" 11 x=70.753
rox =0 roy =0 NEd=-730.046 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.089 in comb. Famiglia "SLU" 49 x=0
Mx,Ed=-795982 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.078 in comb. Famiglia "SLV" 9 x=14.151

NEd=737.141 My,Ed=203822.281 Npl,Rd=488183.688 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.172 in comb. Famiglia "SLV" 7 x=0
NEd=-690.868 Mx,Ed=-824687.938 My,Ed=-210366.219
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLV" 11 x=0
VEd=349.963 Vc,Rd=206274.547

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.031 in comb. Famiglia "SLV" 3 x=0
VEd=3160.929 Vc,Rd=102595.211

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.042 in comb. Famiglia "SLV" 7 x=0
TEd=-8152.165 taut,Ed =54.639 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.133 in comb. Famiglia "SLV" 3 x=0 classe 1
Mx,Sd=-980516.188 My,Sd=-63100.117 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.076
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.138 in comb. Famiglia "SLV" 7 x=70.753 classe 1
NEd=-708.494 Mx,Ed=824687.938 My,Ed=210366.219
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.908 cm.y=0.953 kxx=0.908 kxy=0.571 kyx=0.672 kyy=0.952
chilt =1 lambdalt.ad =0.076 cmLT =0.908

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=37.735 fy=-0.002 x=35.376 rapp. luce/freccia = 37678.046; freccia < luce/400

Asta 53: Trave in acciaio falda Falda 3 fili 1-13
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 101.1 Nodo iniziale n.95 Nodo finale n.92 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 10 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=330975776 Ncr,y=48531856 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.002 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=744.047 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.002 in comb. Famiglia "SLV" 7 x=101.076
rox =0 roy =0 NEd=-754.682 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.067 in comb. Famiglia "SLU" 49 x=0
Mx,Ed=-598923.813 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.142 in comb. Famiglia "SLV" 7 x=0
NEd=-729.501 Mx,Ed=-637924.438 My,Ed=-185623.828
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 11 x=0
VEd=279.187 Vc,Rd=206274.547

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.03 in comb. Famiglia "SLV" 3 x=0
VEd=3051.367 Vc,Rd=102595.211

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.042 in comb. Famiglia "SLV" 7 x=0
TEd=-8152.165 taut,Ed =54.639 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.106 in comb. Famiglia "SLV" 3 x=0 classe 1
Mx,Sd=-761111.563 My,Sd=-55716.629 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.102
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.117 in comb. Famiglia "SLV" 7 x=101.076 classe 1
NEd=-754.682 Mx,Ed=637924.438 My,Ed=185623.828
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.839 cm.y=0.939 kxx=0.839 kxy=0.563 kyx=0.703 kyy=0.939
chilt =1 lambdalt.ad =0.102 cmLT =0.839

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=53.907 fy=-0.003 x=47.169 rapp. luce/freccia = 39393.922; freccia < luce/400

Asta 54: Trave in acciaio falda Falda 3 fili 17-2

```
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 70.8 Nodo iniziale n.102  Nodo finale n.96 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 7 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=675460800 Ncr,y=99044608 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 43 x=0
rox =0 roy =0 NEd=403.305 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 9 x=70.753
rox =0 roy =0 NEd=-55.041 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.129 in comb. Famiglia "SLU" 49 x=0
Mx,Ed=-1148902.75 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.075 in comb. Famiglia "SLU" 51 x=0
NEd=306.715 Mx,Ed=-662003.5 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.157 in comb. Famiglia "SLV" 5 x=0
NEd=-12.406 Mx,Ed=-693586.938 My,Ed=211114.938
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLV" 5 x=0
VEd=-367.759 Vc,Rd=206310.422

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.04 in comb. Famiglia "SLU" 49 x=0
VEd=4083.181 Vc,Rd=102970.555

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.042 in comb. Famiglia "SLV" 9 x=0
TEd=8073.985 taut,Ed =54.115 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.157 in comb. Famiglia "SLV" 5 x=0 classe 1
Mx,Sd=-693586.938 My,Sd=211114.938 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.075
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=35.376 fy=-0.003 x=35.376 rapp. luce/freccia = 26468.231; freccia < luce/400
```

Asta 55: Trave in acciaio falda Falda 3 fili 2-14

```
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 101.1 Nodo iniziale n.96  Nodo finale n.93 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 10 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=330975776 Ncr,y=48531856 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLU" 43 x=0
rox =0 roy =0 NEd=380.391 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=101.076
rox =0 roy =0 NEd=-76.22 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.097 in comb. Famiglia "SLU" 49 x=0
Mx,Ed=-865518.188 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.056 in comb. Famiglia "SLU" 51 x=0
NEd=283.801 Mx,Ed=-496040.375 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.128 in comb. Famiglia "SLV" 5 x=0
NEd=-51.039 Mx,Ed=-528265.125 My,Ed=185094.938
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 5 x=0
VEd=-296.983 Vc,Rd=206310.422
```

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.038 in comb. Famiglia "SLU" 49 x=0
VEd=3927.364 Vc,Rd=102970.555

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.042 in comb. Famiglia "SLV" 9 x=0
TEd=8073.985 taut,Ed =54.115 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.128 in comb. Famiglia "SLV" 5 x=0 classe 1
Mx,Sd=-528265.125 My,Sd=185094.938 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.102
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=47.169 fy=-0.004 x=47.169 rapp. luce/freccia = 27744.405; freccia < luce/400

Asta 56: Trave in acciaio falda Falda 3 fili 18-3
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 70.8 Nodo iniziale n.103 Nodo finale n.97 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 7 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=675460800 Ncr,y=99044608 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.002 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=751.404 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.001 in comb. Famiglia "SLV" 9 x=70.753
rox =0 roy =0 NEd=-730.046 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.089 in comb. Famiglia "SLU" 49 x=0
Mx,Ed=-795982 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.078 in comb. Famiglia "SLV" 11 x=14.151
NEd=737.141 My,Ed=-203822.281 Npl,Rd=488183.688 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.172 in comb. Famiglia "SLV" 5 x=0
NEd=-690.868 Mx,Ed=-824687.938 My,Ed=210366.219
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLV" 9 x=0
VEd=-349.963 Vc,Rd=206274.547

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.031 in comb. Famiglia "SLV" 1 x=0
VEd=3160.929 Vc,Rd=102595.211

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.042 in comb. Famiglia "SLV" 5 x=0
TEd=8152.165 taut,Ed =54.639 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.133 in comb. Famiglia "SLV" 1 x=0 classe 1
Mx,Sd=-980516.188 My,Sd=63100.117 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.076
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.138 in comb. Famiglia "SLV" 5 x=70.753 classe 1
NEd=-708.494 Mx,Ed=824687.938 My,Ed=210366.219
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.908 cm.y=0.953 kxx=0.908 kxy=0.571 kyx=0.672 kyy=0.952
chilt =1 lambdalt.ad =0.076 cmLT =0.908

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=37.735 fy=-0.002 x=35.376 rapp. luce/freccia = 37678.046; freccia < luce/400

Asta 57: Trave in acciaio falda Falda 3 fili 3-15
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 101.1 Nodo iniziale n.97 Nodo finale n.94 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 10 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=330975776 Ncr,y=48531856 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.002 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=744.047 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.002 in comb. Famiglia "SLV" 5 x=101.076
rox =0 roy =0 NEd=-754.682 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.067 in comb. Famiglia "SLU" 49 x=0
Mx,Ed=-598923.813 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.142 in comb. Famiglia "SLV" 5 x=0
NEd=-729.501 Mx,Ed=-637924.438 My,Ed=185623.828
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 9 x=0
VEd=-279.187 Vc,Rd=206274.547

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.03 in comb. Famiglia "SLV" 1 x=0
VEd=3051.367 Vc,Rd=102595.211

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.042 in comb. Famiglia "SLV" 5 x=0
TEd=8152.165 taut,Ed =54.639 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.106 in comb. Famiglia "SLV" 1 x=0 classe 1
Mx,Sd=-761111.563 My,Sd=55716.629 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.102
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.117 in comb. Famiglia "SLV" 5 x=101.076 classe 1
NEd=-754.682 Mx,Ed=637924.438 My,Ed=185623.828
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.839 cm.y=0.939 kxx=0.839 kxy=0.563 kyx=0.703 kyy=0.939
chilt =1 lambdalt.ad =0.102 cmLT =0.839

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=53.907 fy=-0.003 x=47.169 rapp. luce/freccia = 39393.922; freccia < luce/400

Asta 58: Trave in acciaio falda Falda 4 fili 15-12
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 169.8 Nodo iniziale n.94 Nodo finale n.85 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=117305656 Ncr,y=17200838 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=570.093 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.001 in comb. Famiglia "SLV" 5 x=169.779
rox =0 roy =0 NEd=-543.41 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.038 in comb. Famiglia "SLU" 49 x=0
Mx,Ed=-336538.344 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.056 in comb. Famiglia "SLV" 11 x=113.186
NEd=524.432 My,Ed=-147238.625 Npl,Rd=488183.688 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.103 in comb. Famiglia "SLV" 5 x=0
NEd=-474.918 Mx,Ed=-385524.344 My,Ed=157515.531
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 5 x=0
VEd=-123.956 Vc,Rd=207084.531

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.027 in comb. Famiglia "SLV" 1 x=0
VEd=2769.16 Vc,Rd=102713.641

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.033 in comb. Famiglia "SLV" 5 x=0
TEd=-6317.789 taut,Ed =42.344 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.069 in comb. Famiglia "SLV" 1 x=0 classe 1
Mx,Sd=-461348.031 My,Sd=47340.223 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.139
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.09 in comb. Famiglia "SLV" 5 x=169.779 classe 1
NEd=-543.41 Mx,Ed=385524.344 My,Ed=157515.531
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.605 cm.y=0.947 kxx=0.605 kxy=0.568 kyx=0.773 kyy=0.946
chilt =1 lambdalt.ad =0.139 cmLT =0.605

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=90.549 fy=-0.003 x=73.571 rapp. luce/freccia = 60397.864; freccia < luce/400

Asta 59: Trave in acciaio falda Falda 4 fili 14-11
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 169.8 Nodo iniziale n.93 Nodo finale n.84 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=117305656 Ncr,y=17200838 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 51 x=0
rox =0 roy =0 NEd=234.023 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=169.779
rox =0 roy =0 NEd=-90.644 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.048 in comb. Famiglia "SLU" 23 x=0
Mx,Ed=-428445.844 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.054 in comb. Famiglia "SLU" 49 x=0
NEd=230.305 Mx,Ed=-479803.188 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.092 in comb. Famiglia "SLV" 5 x=0
NEd=-22.153 Mx,Ed=-306489.188 My,Ed=155163.781
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0 in comb. Famiglia "SLV" 9 x=0
VEd=-73.818 Vc,Rd=207141.391

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.028 in comb. Famiglia "SLV" 1 x=0
VEd=2913.475 Vc,Rd=102724.641

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.032 in comb. Famiglia "SLV" 9 x=0
TEd=-6188.902 taut,Ed =41.48 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.092 in comb. Famiglia "SLV" 5 x=0 classe 1
Mx,Sd=-306489.188 My,Sd=155163.781 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.142
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=79.23 fy=-0.004 x=73.571 rapp. luce/freccia = 41941.966; freccia < luce/400

Asta 60: Trave in acciaio falda Falda 4 fili 13-10
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 169.8 Nodo iniziale n.92 Nodo finale n.83 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 16 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=117305656 Ncr,y=17200838 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.001 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=570.093 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.001 in comb. Famiglia "SLV" 7 x=169.779
rox =0 roy =0 NEd=-543.41 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.038 in comb. Famiglia "SLU" 49 x=0
Mx,Ed=-336538.344 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.056 in comb. Famiglia "SLV" 9 x=113.186
NEd=524.432 My,Ed=147238.625 Npl,Rd=488183.688 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.103 in comb. Famiglia "SLV" 7 x=0

NEd=-474.918 Mx,Ed=-385524.344 My,Ed=-157515.531
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLV" 7 x=0
VEd=123.956 Vc,Rd=207084.531

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.027 in comb. Famiglia "SLV" 3 x=0
VEd=2769.16 Vc,Rd=102713.641

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.033 in comb. Famiglia "SLV" 7 x=0
TEd=6317.789 taut,Ed =42.344 TRd=192792.844

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.069 in comb. Famiglia "SLV" 3 x=0 classe 1
Mx,Sd=-461348.031 My,Sd=-47340.223 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.139
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.09 in comb. Famiglia "SLV" 7 x=169.779 classe 1
NEd=-543.41 Mx,Ed=385524.344 My,Ed=157515.531
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.605 cm.y=0.947 kxx=0.605 kxy=0.568 kyx=0.773 kyy=0.946
chilt =1 lambdalt.ad =0.139 cmLT =0.605

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=90.549 fy=-0.003 x=73.571 rapp. luce/freccia = 60397.864; freccia < luce/400

Asta 61: Trave in acciaio falda Falda 5 fili 10-7
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 103.1 Nodo iniziale n.83 Nodo finale n.74 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 10 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=318243328 Ncr,y=46664856 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLV" 1 x=0
rox =0 roy =0 NEd=178.085 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 11 x=103.078
rox =0 roy =0 NEd=-169.605 Nc,Rd=488183.688 classe 0

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.008 in comb. Famiglia "SLV" 5 x=72.154
My,Ed=22240.689 Mc,y,Rd.y=2681022
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.03 in comb. Famiglia "SLV" 9 x=0
NEd=87.759 Mx,Ed=-19114.914 My,Ed=74074.102
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLV" 5 x=0
VEd=-719.221 Vc,Rd=209853.547

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.004 in comb. Famiglia "SLU" 49 x=0
VEd=410.655 Vc,Rd=103120.719

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.03 in comb. Famiglia "SLV" 9 x=0 classe 1
Mx,Sd=-19114.914 My,Sd=74074.102 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.084
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 6 fx=0 x=41.231 fy=0 x=41.231 rapp. luce/freccia = 613465.909; freccia < luce/400

Asta 62: Trave in acciaio falda Falda 5 fili 11-8
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 103.1 Nodo iniziale n.84 Nodo finale n.75 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 10 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=318243328 Ncr,y=46664856 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 49 x=0
rox =0 roy =0 NEd=244.079 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.001 in comb. Famiglia "SLU" 5 x=103.078

rox =0 roy =0 NEd=-258.406 Nc,Rd=488183.688 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.005 in comb. Famiglia "SLU" 23 x=0
Mx,Ed=-45026.074 Mc,x,Rd=8919141
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.006 in comb. Famiglia "SLU" 49 x=0
NEd=244.079 Mx,Ed=-51964.176 Npl,Rd=488183.688 Mn,x,Rd=8919141
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.031 in comb. Famiglia "SLV" 9 x=0
NEd=-71.279 Mx,Ed=-29416.902 My,Ed=74010.813
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLV" 9 x=0
VEd=-718.01 Vc,Rd=209853.547

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.006 in comb. Famiglia "SLU" 49 x=0
VEd=609.844 Vc,Rd=103120.719

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.001 in comb. Famiglia "SLU" 5 x=103.078
NEd=-258.406 Nb,Rd=488183.688
chi =1 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.031 in comb. Famiglia "SLV" 9 x=0 classe 1
Mx,Sd=-29416.902 My,Sd=74010.813 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.084
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.003 in comb. Famiglia "SLU" 5 x=103.078 classe 1
NEd=-258.406 Mx,Ed=9389.322 My,Ed=6479.796
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.779 cm.y=0.6 kxx=0.779 kxy=0.36 kyx=0.705 kyy=0.6
chilt =1 lambdalt.ad =0.084 cmLT =0.779

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 3 fx=0 x=44.667 fy=0 x=24.051 rapp. luce/freccia = 522028.808; freccia < luce/400

Asta 63: Trave in acciaio falda Falda 5 fili 12-9
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 103.1 Nodo iniziale n.85 Nodo finale n.76 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
fy=2350 classe peggiore 1
Snellezza 10 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=318243328 Ncr,y=46664856 betam=0.7 betan=0.7

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLV" 3 x=0
rox =0 roy =0 NEd=178.085 Nt,Rd=488183.688

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 9 x=103.078
rox =0 roy =0 NEd=-169.605 Nc,Rd=488183.688 classe 0

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.008 in comb. Famiglia "SLV" 7 x=72.154
My,Ed=-22240.689 Mc,y,Rd.y=2681022
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.03 in comb. Famiglia "SLV" 11 x=0
NEd=87.759 Mx,Ed=-19114.914 My,Ed=-74074.102
Npl,Rd=488183.688 Mn,x,Rd=8919141 Mn,y,Rd=2681022
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLV" 7 x=0
VEd=719.221 Vc,Rd=209853.547

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.004 in comb. Famiglia "SLU" 49 x=0
VEd=410.655 Vc,Rd=103120.719

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.03 in comb. Famiglia "SLV" 11 x=0 classe 1
Mx,Sd=-19114.914 My,Sd=-74074.102 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.084
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 6 fx=0 x=44.667 fy=0 x=41.231 rapp. luce/freccia = 518410.534; freccia < luce/400

Asta 64: Trave in acciaio falda Falda 5 fili 7-8

Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.74 Nodo finale n.75 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 38 x=0
rox =0 roy =0 NEd=0.021 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.007 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-643.831 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.029 in comb. Famiglia "SLU" 25 x=250
Mx,Ed=15835.463 Mc,x,Rd=549287.438
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.016 in comb. Famiglia "SLU" 48 x=50
NEd=-73.973 My,Ed=3943.334 Npl,Rd=86875.586 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.084 in comb. Famiglia "SLU" 49 x=250
NEd=-1.533 Mx,Ed=24685.898 My,Ed=-10394.063
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLU" 5 x=0
VEd=126.359 Vc,Rd=39767.109

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.012 in comb. Famiglia "SLU" 49 x=0
VEd=197.487 Vc,Rd=17129.225

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLV" 11 x=0
TEd=7.41 taut,Ed =0.763 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.02 in comb. Famiglia "SLV" 5 x=0
NEd=-643.831 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.084 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=24685.898 My,Sd=-10394.063 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.071 in comb. Famiglia "SLU" 5 x=0 classe 1
NEd=-91.695 Mx,Ed=10938.249 My,Ed=15794.928
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.572 kyx=0.571 kyy=0.954
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 5 fx=-0.162 x=250 fy=-0.01 x=250 rapp. luce/freccia = 3086.851; freccia < luce/400

Asta 65: Trave in acciaio falda Falda 5 fili 8-9

Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.75 Nodo finale n.76 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 38 x=0
rox =0 roy =0 NEd=0.021 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.007 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-643.831 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.029 in comb. Famiglia "SLU" 25 x=250
Mx,Ed=15835.463 Mc,x,Rd=549287.438
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.016 in comb. Famiglia "SLU" 48 x=50
NEd=-61.959 My,Ed=3943.334 Npl,Rd=86875.586 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.084 in comb. Famiglia "SLU" 49 x=250
NEd=-1.533 Mx,Ed=24685.898 My,Ed=-10394.063
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLU" 5 x=0
VEd=126.359 Vc,Rd=39766.367

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.012 in comb. Famiglia "SLU" 49 x=0
VEd=197.487 Vc,Rd=17129.258

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLV" 9 x=0
TEd=-7.41 taut,Ed =0.763 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.02 in comb. Famiglia "SLV" 7 x=0
NEd=-643.831 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.084 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=24685.898 My,Sd=-10394.063 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.07 in comb. Famiglia "SLU" 5 x=0 classe 1
NEd=-61.767 Mx,Ed=10938.249 My,Ed=15794.928
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.572 kyx=0.57 kyy=0.953
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 5 fx=-0.162 x=250 fy=-0.01 x=250 rapp. luce/freccia = 3086.851; freccia < luce/400

Asta 66: Trave in acciaio falda Falda 4 fili 10-11
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.83 Nodo finale n.84 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 38 x=0
rox =0 roy =0 NEd=0.594 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.008 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-680.013 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.049 in comb. Famiglia "SLU" 46 x=133.333
NEd=-207.558 Mx,Ed=-25845.217 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.139 in comb. Famiglia "SLU" 3 x=250
NEd=-234.33 Mx,Ed=-60979.895 My,Ed=6679.903
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLU" 51 x=0
VEd=-109.814 Vc,Rd=39767.02

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.029 in comb. Famiglia "SLU" 5 x=0
VEd=-491.174 Vc,Rd=17129.227

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLV" 11 x=0
TEd=7.455 taut,Ed =0.768 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.021 in comb. Famiglia "SLV" 11 x=0
NEd=-680.013 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.137 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=49926.074 My,Sd=-12103.291 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.124 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-234.33 Mx,Ed=60979.895 My,Ed=6679.903
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.952 kxy=0.576 kyx=0.571 kyy=0.96

Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0.168 x=250 fy=0.255 x=250 rapp. luce/freccia = 1957.941; freccia < luce/400

Asta 67: Trave in acciaio falda Falda 4 fili 11-12

Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.84 Nodo finale n.85 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 38 x=0
rox =0 roy =0 NEd=0.594 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.008 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-680.013 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.048 in comb. Famiglia "SLU" 46 x=133.333
NEd=-99.365 Mx,Ed=-25845.217 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.137 in comb. Famiglia "SLU" 3 x=250
NEd=-82.161 Mx,Ed=-60979.895 My,Ed=6679.903
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLU" 51 x=0
VEd=-109.814 Vc,Rd=39767.133

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.029 in comb. Famiglia "SLU" 5 x=0
VEd=-491.174 Vc,Rd=17128.908

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLV" 9 x=0
TEd=-7.455 taut,Ed =0.768 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.021 in comb. Famiglia "SLV" 9 x=0
NEd=-680.013 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.137 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=49926.074 My,Sd=-12103.291 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.121 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-82.161 Mx,Ed=60979.895 My,Ed=6679.903
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.572 kyx=0.57 kyy=0.953
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0.168 x=250 fy=0.255 x=250 rapp. luce/freccia = 1957.941; freccia < luce/400

Asta 68: Trave in acciaio falda Falda 4 fili 13-14

Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.92 Nodo finale n.93 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 38 x=0
rox =0 roy =0 NEd=0.826 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.006 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-540.794 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.039 in comb. Famiglia "SLU" 48 x=66.667
NEd=-149.17 Mx,Ed=-20619.018 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.194 in comb. Famiglia "SLU" 3 x=250
NEd=-232.546 Mx,Ed=-78768.914 My,Ed=12511.724
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688

formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLU" 49 x=0
VEd=-117.147 Vc,Rd=39766.027

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-634.82 Vc,Rd=17128.477

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLV" 11 x=0
TEd=6.86 taut,Ed =0.706 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.017 in comb. Famiglia "SLV" 5 x=0
NEd=-540.794 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.123 in comb. Famiglia "SLU" 36 x=250 classe 1
Mx,Sd=44841.77 My,Sd=-10870.731 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.168 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-232.546 Mx,Ed=78768.914 My,Ed=12511.724
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.952 kxy=0.576 kyx=0.571 kyy=0.96
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0.202 x=250 fy=0.307 x=250 rapp. luce/freccia = 1628.41; freccia < luce/400

Asta 69: Trave in acciaio falda Falda 4 fili 14-15
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.93 Nodo finale n.94 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 38 x=0
rox =0 roy =0 NEd=0.826 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.006 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-540.794 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.038 in comb. Famiglia "SLU" 48 x=66.667
Mx,Ed=-20619.018 Mc,x,Rd=549287.438
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.012 in comb. Famiglia "SLU" 4 x=16.667
NEd=-55.736 Mx,Ed=-6015.51 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.192 in comb. Famiglia "SLU" 3 x=250
NEd=-54.843 Mx,Ed=-78768.914 My,Ed=12511.724
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.003 in comb. Famiglia "SLU" 49 x=0
VEd=-117.147 Vc,Rd=39766.027

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-634.82 Vc,Rd=17128.199

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLV" 9 x=0
TEd=-6.86 taut,Ed =0.706 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.017 in comb. Famiglia "SLV" 7 x=0
NEd=-540.794 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.133 in comb. Famiglia "SLU" 18 x=250 classe 1
Mx,Sd=-63790.371 My,Sd=4491.383 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.164 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-54.843 Mx,Ed=78768.914 My,Ed=12511.724
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625

cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.571 kyx=0.57 kyy=0.952
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0.202 x=250 fy=0.307 x=250 rapp. luce/freccia = 1628.41; freccia < luce/400

Asta 70: Trave in acciaio falda Falda 3 fili 16-17
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.101 Nodo finale n.102 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.005 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-470.35 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.006 in comb. Famiglia "SLU" 34 x=16.667
Mx,Ed=-3411.354 Mc,x,Rd=549287.438
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.184 in comb. Famiglia "SLU" 3 x=250
NEd=-189.087 Mx,Ed=-79474.547 My,Ed=9697.509
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 3 x=0
VEd=77.58 Vc,Rd=39759.391

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-636.336 Vc,Rd=17125.908

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=-7.323 taut,Ed =0.754 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.014 in comb. Famiglia "SLV" 7 x=0
NEd=-470.35 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.11 in comb. Famiglia "SLU" 36 x=250 classe 1
Mx,Sd=46148.191 My,Sd=-6786.499 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.162 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-189.087 Mx,Ed=79474.547 My,Ed=9697.509
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.952 kxy=0.575 kyx=0.571 kyy=0.958
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0.126 x=250 fy=0.315 x=250 rapp. luce/freccia = 1586.768; freccia < luce/400

Asta 71: Trave in acciaio falda Falda 3 fili 17-18
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.102 Nodo finale n.103 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.005 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-470.35 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.006 in comb. Famiglia "SLU" 34 x=16.667
Mx,Ed=-3411.354 Mc,x,Rd=549287.438
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.182 in comb. Famiglia "SLU" 3 x=250
NEd=-57.08 Mx,Ed=-79474.547 My,Ed=9697.509
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 3 x=0
VEd=77.58 Vc,Rd=39758.82

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0

VEd=-636.336 Vc,Rd=17125.76

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 3 x=0
TEd=7.745 taut,Ed =0.797 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.014 in comb. Famiglia "SLV" 5 x=0
NEd=-470.35 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.11 in comb. Famiglia "SLU" 36 x=250 classe 1
Mx,Sd=46148.191 My,Sd=-6786.499 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.159 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-57.08 Mx,Ed=79474.547 My,Ed=9697.509
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.571 kyx=0.57 kyy=0.952
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0.126 x=250 fy=0.315 x=250 rapp. luce/freccia = 1586.768; freccia < luce/400

Asta 72: Trave in acciaio falda Falda 1 fili 28-29
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.98 Nodo finale n.99 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.005 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-419.845 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.007 in comb. Famiglia "SLU" 17 x=16.667
Mx,Ed=-3938.742 Mc,x,Rd=549287.438
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.038 in comb. Famiglia "SLU" 39 x=250
NEd=-44.49 Mx,Ed=-20596.828 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.174 in comb. Famiglia "SLU" 3 x=250
NEd=-88.193 Mx,Ed=-79658.422 My,Ed=-7407.816
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.593 Vc,Rd=39757.727

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-638.261 Vc,Rd=17123.721

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=-11.328 taut,Ed =1.166 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.013 in comb. Famiglia "SLV" 7 x=0
NEd=-419.845 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.106 in comb. Famiglia "SLU" 36 x=250 classe 1
Mx,Sd=46279.336 My,Sd=5825.371 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.155 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-88.193 Mx,Ed=79658.422 My,Ed=7407.816
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.572 kyx=0.57 kyy=0.954
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1582.83; freccia < luce/400

Asta 73: Trave in acciaio falda Falda 1 fili 29-30
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.99 Nodo finale n.100 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.005 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-419.845 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.007 in comb. Famiglia "SLU" 17 x=16.667
Mx,Ed=-3938.742 Mc,x,Rd=549287.438
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.038 in comb. Famiglia "SLU" 39 x=250
NEd=-43.818 Mx,Ed=-20596.828 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.174 in comb. Famiglia "SLU" 3 x=250
NEd=-86.679 Mx,Ed=-79658.422 My,Ed=-7407.816
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.593 Vc,Rd=39757.727

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-638.261 Vc,Rd=17123.719

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=11.329 taut,Ed =1.166 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.013 in comb. Famiglia "SLV" 5 x=0
NEd=-419.845 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.106 in comb. Famiglia "SLU" 36 x=250 classe 1
Mx,Sd=46279.336 My,Sd=5825.371 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.155 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-86.679 Mx,Ed=79658.422 My,Ed=7407.816
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.572 kyx=0.57 kyy=0.954
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1582.83; freccia < luce/400

Asta 74: Trave in acciaio falda Falda 1 fili 25-26

Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.50 Nodo finale n.51 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 5 x=0
rox =0 roy =0 NEd=16.764 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.003 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-270.165 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.008 in comb. Famiglia "SLU" 29 x=116.667
Mx,Ed=-4398.797 Mc,x,Rd=549287.438
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.052 in comb. Famiglia "SLU" 49 x=250
NEd=-17.584 Mx,Ed=22562.691 My,Ed=2840.059
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLU" 49 x=0
VEd=22.72 Vc,Rd=39757.199

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.011 in comb. Famiglia "SLU" 49 x=0
VEd=180.502 Vc,Rd=17124.979

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08

R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=13.143 taut,Ed =1.353 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.008 in comb. Famiglia "SLV" 9 x=0
NEd=-270.165 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.052 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=22562.691 My,Sd=2840.059 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.028 in comb. Famiglia "SLV" 9 x=0 classe 1
NEd=-270.165 Mx,Ed=11635.182 My,Ed=1464.568
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.953 kxy=0.577 kyx=0.572 kyy=0.961
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.041 x=250 fy=0.121 x=250 rapp. luce/freccia = 4145.887; freccia < luce/400

Asta 75: Trave in acciaio falda Falda 1 fili 26-27
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.51 Nodo finale n.52 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=0.037 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.003 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-270.165 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.002 in comb. Famiglia "SLU" 5 x=16.667
Mx,Ed=-1162.313 Mc,x,Rd=549287.438
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.008 in comb. Famiglia "SLU" 29 x=116.667
NEd=-40.471 Mx,Ed=-4398.797 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.052 in comb. Famiglia "SLU" 49 x=250
NEd=-17.584 Mx,Ed=22562.691 My,Ed=2840.059
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLU" 49 x=0
VEd=22.72 Vc,Rd=39757.199

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.011 in comb. Famiglia "SLU" 49 x=0
VEd=180.502 Vc,Rd=17124.979

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=-12.656 taut,Ed =1.303 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.008 in comb. Famiglia "SLV" 11 x=0
NEd=-270.165 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.052 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=22562.691 My,Sd=2840.059 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.028 in comb. Famiglia "SLV" 11 x=0 classe 1
NEd=-270.165 Mx,Ed=11635.182 My,Ed=1464.568
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.953 kxy=0.577 kyx=0.572 kyy=0.961
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.041 x=250 fy=0.121 x=250 rapp. luce/freccia = 4145.887; freccia < luce/400

Asta 76: Trave in acciaio falda Falda 1 fili 31-32
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.89 Nodo finale n.90 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;

fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=0.364 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.006 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-482.384 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.015 in comb. Famiglia "SLU" 35 x=16.667
NEd=-74.688 Mx,Ed=-7786.114 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.169 in comb. Famiglia "SLU" 3 x=250
NEd=-93.572 Mx,Ed=-80066.422 My,Ed=-5832.197
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.652 Vc,Rd=39758.586

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-641.94 Vc,Rd=17124.111

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=-10.611 taut,Ed =1.093 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.015 in comb. Famiglia "SLV" 9 x=0
NEd=-482.384 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.143 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=62216.836 My,Sd=7831.49 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.153 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-93.572 Mx,Ed=80066.422 My,Ed=5832.197
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.572 kyx=0.571 kyy=0.954
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1581.374; freccia < luce/400

Asta 77: Trave in acciaio falda Falda 1 fili 32-33
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.90 Nodo finale n.91 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=0.364 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.006 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-482.384 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.015 in comb. Famiglia "SLU" 35 x=16.667
NEd=-81.294 Mx,Ed=-7786.114 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.169 in comb. Famiglia "SLU" 3 x=250
NEd=-104.419 Mx,Ed=-80066.422 My,Ed=-5832.197
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.652 Vc,Rd=39758.586

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-641.94 Vc,Rd=17124.217

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=10.42 taut,Ed =1.073 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.015 in comb. Famiglia "SLV" 11 x=0
NEd=-482.384 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.143 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=62216.836 My,Sd=7831.49 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.153 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-104.419 Mx,Ed=80066.422 My,Ed=5832.197
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.573 kyx=0.571 kyy=0.954
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1581.374; freccia < luce/400

Asta 78: Trave in acciaio falda Falda 1 fili 34-35
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.86 Nodo finale n.87 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=1.046 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.006 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-504.139 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.015 in comb. Famiglia "SLU" 35 x=16.667
NEd=-71.115 Mx,Ed=-7786.114 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.169 in comb. Famiglia "SLU" 3 x=250
NEd=-87.493 Mx,Ed=-80066.422 My,Ed=-5832.197
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.652 Vc,Rd=39762.613

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-641.94 Vc,Rd=17126.318

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=-6.57 taut,Ed =0.676 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.016 in comb. Famiglia "SLV" 7 x=0
NEd=-504.139 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.143 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=62216.836 My,Sd=7831.49 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.153 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-87.493 Mx,Ed=80066.422 My,Ed=5832.197
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.572 kyx=0.57 kyy=0.954
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1581.374; freccia < luce/400

Asta 79: Trave in acciaio falda Falda 1 fili 35-36
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.87 Nodo finale n.88 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08

R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=1.046 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.006 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-504.139 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.015 in comb. Famiglia "SLU" 35 x=16.667
NEd=-80.432 Mx,Ed=-7786.114 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.169 in comb. Famiglia "SLU" 3 x=250
NEd=-103.39 Mx,Ed=-80066.422 My,Ed=-5832.197
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.652 Vc,Rd=39762.613

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-641.94 Vc,Rd=17126.475

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=6.286 taut,Ed =0.647 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.016 in comb. Famiglia "SLV" 5 x=0
NEd=-504.139 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.143 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=62216.836 My,Sd=7831.49 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.153 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-103.39 Mx,Ed=80066.422 My,Ed=5832.197
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.573 kyx=0.571 kyy=0.954
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1581.374; freccia < luce/400

Asta 80: Trave in acciaio falda Falda 1 fili 37-38
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.80 Nodo finale n.81 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=0.975 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.007 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-640.974 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.015 in comb. Famiglia "SLU" 35 x=16.667
NEd=-60.299 Mx,Ed=-7786.114 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.169 in comb. Famiglia "SLU" 3 x=250
NEd=-78.996 Mx,Ed=-80066.422 My,Ed=-5832.197
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.652 Vc,Rd=39768.637

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-641.94 Vc,Rd=17129.906

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0 in comb. Famiglia "SLV" 5 x=0
TEd=3.558 taut,Ed =0.366 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.02 in comb. Famiglia "SLV" 7 x=0
NEd=-640.974 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.143 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=62216.836 My,Sd=7831.49 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.153 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-78.996 Mx,Ed=80066.422 My,Ed=5832.197
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.572 kyx=0.57 kyy=0.953
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1581.374; freccia < luce/400

Asta 81: Trave in acciaio falda Falda 1 fili 38-39
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.81 Nodo finale n.82 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=0.975 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.007 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-640.974 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.015 in comb. Famiglia "SLU" 35 x=16.667
NEd=-90.541 Mx,Ed=-7786.114 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.169 in comb. Famiglia "SLU" 3 x=250
NEd=-121.098 Mx,Ed=-80066.422 My,Ed=-5832.197
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.652 Vc,Rd=39768.637

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-641.94 Vc,Rd=17129.906

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0 in comb. Famiglia "SLV" 7 x=0
TEd=-3.558 taut,Ed =0.366 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.02 in comb. Famiglia "SLV" 5 x=0
NEd=-640.974 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.143 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=62216.836 My,Sd=7831.49 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.153 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-121.098 Mx,Ed=80066.422 My,Ed=5832.197
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.573 kyx=0.571 kyy=0.955
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1581.374; freccia < luce/400

Asta 82: Trave in acciaio falda Falda 1 fili 40-41
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.77 Nodo finale n.78 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=1.067 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08

R2 =0.009 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-808.227 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.015 in comb. Famiglia "SLU" 35 x=16.667
NEd=-46.716 Mx,Ed=-7786.114 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.169 in comb. Famiglia "SLU" 3 x=250
NEd=-85.496 Mx,Ed=-80066.422 My,Ed=-5832.197
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.652 Vc,Rd=39763.367

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-641.94 Vc,Rd=17127.082

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0 in comb. Famiglia "SLU" 5 x=0
TEd=5.173 taut,Ed =0.533 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.025 in comb. Famiglia "SLV" 7 x=0
NEd=-808.227 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.143 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=62216.836 My,Sd=7831.49 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.153 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-85.496 Mx,Ed=80066.422 My,Ed=5832.197
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.572 kyx=0.57 kyy=0.954
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1581.374; freccia < luce/400

Asta 83: Trave in acciaio falda Falda 1 fili 41-42
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.78 Nodo finale n.79 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=1.067 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.009 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-808.227 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.015 in comb. Famiglia "SLU" 35 x=16.667
NEd=-108.342 Mx,Ed=-7786.114 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.17 in comb. Famiglia "SLU" 3 x=250
NEd=-149.223 Mx,Ed=-80066.422 My,Ed=-5832.197
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.652 Vc,Rd=39763.367

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-641.94 Vc,Rd=17126.986

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0 in comb. Famiglia "SLU" 3 x=0
TEd=-5.452 taut,Ed =0.561 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.025 in comb. Famiglia "SLV" 5 x=0
NEd=-808.227 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.143 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=62216.836 My,Sd=7831.49 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.154 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-149.223 Mx,Ed=80066.422 My,Ed=5832.197
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.574 kyx=0.571 kyy=0.956
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1581.374; freccia < luce/400

Asta 84: Trave in acciaio falda Falda 1 fili 43-44
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.71 Nodo finale n.72 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=0.958 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.011 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-922.982 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.015 in comb. Famiglia "SLU" 35 x=16.667
NEd=-71.358 Mx,Ed=-7786.114 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.17 in comb. Famiglia "SLU" 3 x=250
NEd=-149.07 Mx,Ed=-80066.422 My,Ed=-5832.197
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.652 Vc,Rd=39759.246

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-641.94 Vc,Rd=17124.6

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=9.719 taut,Ed =1.001 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.028 in comb. Famiglia "SLV" 7 x=0
NEd=-922.982 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.143 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=62216.836 My,Sd=7831.49 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.154 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-149.07 Mx,Ed=80066.422 My,Ed=5832.197
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.574 kyx=0.571 kyy=0.956
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1581.374; freccia < luce/400

Asta 85: Trave in acciaio falda Falda 1 fili 44-45
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.72 Nodo finale n.73 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=0.958 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.011 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-922.982 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08

R4 =0.016 in comb. Famiglia "SLU" 35 x=16.667
NEd=-136.112 Mx,Ed=-7786.114 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.17 in comb. Famiglia "SLU" 3 x=250
NEd=-195.387 Mx,Ed=-80066.422 My,Ed=-5832.197
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.652 Vc,Rd=39759.246

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-641.94 Vc,Rd=17124.613

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=-9.694 taut,Ed =0.998 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.028 in comb. Famiglia "SLV" 5 x=0
NEd=-922.982 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.143 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=62216.836 My,Sd=7831.49 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.155 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-195.387 Mx,Ed=80066.422 My,Ed=5832.197
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.952 kxy=0.575 kyx=0.571 kyy=0.958
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1581.374; freccia < luce/400

Asta 86: Trave in acciaio falda Falda 1 fili 46-47
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.65 Nodo finale n.66 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=0.774 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.011 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-951.809 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.015 in comb. Famiglia "SLU" 35 x=16.667
NEd=-92.037 Mx,Ed=-7786.114 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.17 in comb. Famiglia "SLU" 3 x=250
NEd=-185.034 Mx,Ed=-80066.422 My,Ed=-5832.197
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.652 Vc,Rd=39757.711

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-641.94 Vc,Rd=17123.475

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=11.778 taut,Ed =1.213 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.029 in comb. Famiglia "SLV" 9 x=0
NEd=-951.809 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.143 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=62216.836 My,Sd=7831.49 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688

Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.154 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-185.034 Mx,Ed=80066.422 My,Ed=5832.197
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.952 kxy=0.575 kyx=0.571 kyy=0.958
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1581.374; freccia < luce/400

Asta 87: Trave in acciaio falda Falda 1 fili 47-48
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.66 Nodo finale n.67 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=0.774 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.011 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-951.809 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.016 in comb. Famiglia "SLU" 35 x=16.667
NEd=-153.844 Mx,Ed=-7786.114 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.171 in comb. Famiglia "SLU" 3 x=250
NEd=-225.178 Mx,Ed=-80066.422 My,Ed=-5832.197
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.652 Vc,Rd=39757.711

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-641.94 Vc,Rd=17123.637

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=-11.48 taut,Ed =1.182 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.029 in comb. Famiglia "SLV" 11 x=0
NEd=-951.809 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.143 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=62216.836 My,Sd=7831.49 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.155 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-225.178 Mx,Ed=80066.422 My,Ed=5832.197
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.952 kxy=0.576 kyx=0.571 kyy=0.959
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1581.374; freccia < luce/400

Asta 88: Trave in acciaio falda Falda 1 fili 52-53
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.53 Nodo finale n.54 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=0.334 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.006 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-558.094 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice p. 4.2.4.1.2 (4.2.12) NTC08
R3 =0.072 in comb. Famiglia "SLU" 44 x=250
Mx,Ed=-39778.723 Mc,x,Rd=549287.438
rox =0 roy =0 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.012 in comb. Famiglia "SLU" 52 x=250
NEd=-68.508 My,Ed=3009.036 Npl,Rd=86875.586 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.113 in comb. Famiglia "SLU" 3 x=250
NEd=-89.123 Mx,Ed=-53738.742 My,Ed=-3767.075
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLU" 49 x=0
VEd=47.862 Vc,Rd=39757.148

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.025 in comb. Famiglia "SLU" 5 x=0
VEd=-430.904 Vc,Rd=17122.721

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=13.158 taut,Ed =1.355 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.017 in comb. Famiglia "SLV" 9 x=0
NEd=-558.094 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.109 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=47530.117 My,Sd=5982.812 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.103 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-89.123 Mx,Ed=53738.742 My,Ed=3767.075
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.572 kyx=0.57 kyy=0.954
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.083 x=250 fy=0.244 x=250 rapp. luce/freccia = 2051.333; freccia < luce/400

Asta 89: Trave in acciaio falda Falda 1 fili 53-54
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.54 Nodo finale n.55 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=0.334 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.006 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-558.094 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.073 in comb. Famiglia "SLU" 44 x=250
NEd=-87.323 Mx,Ed=-39778.723 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.114 in comb. Famiglia "SLU" 3 x=250
NEd=-130.61 Mx,Ed=-53738.742 My,Ed=-3767.075
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.001 in comb. Famiglia "SLU" 49 x=0
VEd=47.862 Vc,Rd=39757.148

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.025 in comb. Famiglia "SLU" 5 x=0
VEd=-430.904 Vc,Rd=17122.986

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=-12.671 taut,Ed =1.305 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.017 in comb. Famiglia "SLV" 11 x=0
NEd=-558.094 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.109 in comb. Famiglia "SLU" 49 x=250 classe 1

Mx,Sd=47530.117 My,Sd=5982.812 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.103 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-130.61 Mx,Ed=53738.742 My,Ed=3767.075
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.951 kxy=0.573 kyx=0.571 kyy=0.955
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.083 x=250 fy=0.244 x=250 rapp. luce/freccia = 2051.333; freccia < luce/400

Asta 90: Trave in acciaio falda Falda 1 fili 49-50
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.62 Nodo finale n.63 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=0.728 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.01 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-861.324 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.015 in comb. Famiglia "SLU" 35 x=16.667
NEd=-77.425 Mx,Ed=-7786.114 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.17 in comb. Famiglia "SLU" 3 x=250
NEd=-161.363 Mx,Ed=-80066.422 My,Ed=-5832.197
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.652 Vc,Rd=39756.809

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-641.94 Vc,Rd=17122.725

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=13.15 taut,Ed =1.354 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.027 in comb. Famiglia "SLV" 9 x=0
NEd=-861.324 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.143 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=62216.836 My,Sd=7831.49 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.154 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-161.363 Mx,Ed=80066.422 My,Ed=5832.197
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.952 kxy=0.574 kyx=0.571 kyy=0.957
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1581.374; freccia < luce/400

Asta 91: Trave in acciaio falda Falda 1 fili 50-51
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 500 Nodo iniziale n.63 Nodo finale n.64 Cerniera iniziale: Svincolo: M2, M3 Cerniera finale: Svincolo: M2, M3
Sezione: HEA160; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1
Snellezza 126 curva X b curva Y c chix= 0.718 chiy= 0.374 Ncr,x=138840.688 Ncr,y=51037.352 betam=1 betan=1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0 in comb. Famiglia "SLU" 25 x=0
rox =0 roy =0 NEd=0.728 Nt,Rd=86875.586

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0.01 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-861.324 Nc,Rd=86875.586 classe 1

Resistenza: flessione semplice con forza assiale p. 4.2.4.1.2 NTC08
R4 =0.016 in comb. Famiglia "SLU" 35 x=16.667
NEd=-147.361 Mx,Ed=-7786.114 Npl,Rd=86875.586 Mn,x,Rd=549287.438
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005

rox =0 roy =0 classe 1

Resistenza: flessione deviata con forza assiale p. 4.2.4.1.2 NTC08
R5 =0.17 in comb. Famiglia "SLU" 3 x=250
NEd=-214.991 Mx,Ed=-80066.422 My,Ed=-5832.197
Npl,Rd=86875.586 Mn,x,Rd=549287.438 Mn,y,Rd=263358.688
formula conservativa (6.2) p. 6.2.1 EN 1993-1-1:2005
rox =0 roy =0 classe 1

Resistenza: taglio X p. 4.2.4.1.2 (4.2.17) NTC08
R6 =0.002 in comb. Famiglia "SLU" 49 x=0
VEd=62.652 Vc,Rd=39756.809

Resistenza: taglio Y p. 4.2.4.1.2 (4.2.17) NTC08
R7 =0.037 in comb. Famiglia "SLU" 5 x=0
VEd=-641.94 Vc,Rd=17122.977

Resistenza: torsione p. 4.2.4.1.2 (4.2.29) NTC08
R8 =0.001 in comb. Famiglia "SLU" 5 x=0
TEd=-12.691 taut,Ed =1.307 TRd=12549.505

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.027 in comb. Famiglia "SLV" 11 x=0
NEd=-861.324 Nb,Rd=32456.869
chi =0.374 classe 1

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.143 in comb. Famiglia "SLU" 49 x=250 classe 1
Mx,Sd=62216.836 My,Sd=7831.49 Mb,x,Rd=549287.438 Mb,y,Rd=263358.688
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.155 in comb. Famiglia "SLU" 3 x=0 classe 1
NEd=-214.991 Mx,Ed=80066.422 My,Ed=5832.197
NRk=91219.359 Mx,Rk=576751.813 My,Rk=276526.625
cm.x=0.95 cm.y=0.95 kxx=0.952 kxy=0.575 kyx=0.571 kyy=0.959
Verifica a instabilità flesso-torsionale (svergolamento) non eseguita

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=-0.108 x=250 fy=0.316 x=250 rapp. luce/freccia = 1581.374; freccia < luce/400

Biella 1: Tirante in acciaio falda Falda 1 fili 46-44
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.65 Nodo finale n.72 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.655 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=1038.492 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 2: Tirante in acciaio falda Falda 1 fili 44-42
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.72 Nodo finale n.79 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.577 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=915.905 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 3: Tirante in acciaio falda Falda 1 fili 42-38
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.79 Nodo finale n.81 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.479 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=759.481 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 4: Tirante in acciaio falda Falda 1 fili 38-40
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.81 Nodo finale n.77 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;

Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.479 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=759.481 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 5: Tirante in acciaio falda Falda 1 fili 40-44
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.77 Nodo finale n.72 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.577 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=915.905 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 6: Tirante in acciaio falda Falda 1 fili 44-48
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.72 Nodo finale n.67 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.655 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=1038.492 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 7: Tirante in acciaio falda Falda 1 fili 47-45
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.66 Nodo finale n.73 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.64 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=1015.623 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 8: Tirante in acciaio falda Falda 1 fili 45-41
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.73 Nodo finale n.78 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.59 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=936.223 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 9: Tirante in acciaio falda Falda 1 fili 41-39
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.78 Nodo finale n.82 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.467 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=740.377 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 10: Tirante in acciaio falda Falda 1 fili 39-35
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.82 Nodo finale n.87 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;

fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.37 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=586.958 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 11: Tirante in acciaio falda Falda 1 fili 35-33
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.87 Nodo finale n.91 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.289 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=459.173 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=0 Nc,Rd=1586.411 classe 1

Biella 12: Tirante in acciaio falda Falda 1 fili 33-29
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.91 Nodo finale n.99 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.335 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=531.513 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 13: Tirante in acciaio falda Falda 1 fili 30-32
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.100 Nodo finale n.90 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.322 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=511.014 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 14: Tirante in acciaio falda Falda 1 fili 32-36
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.90 Nodo finale n.88 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.303 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=480.484 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=0 Nc,Rd=1586.411 classe 1

Biella 15: Tirante in acciaio falda Falda 1 fili 36-38
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.88 Nodo finale n.81 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.358 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=567.27 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 16: Tirante in acciaio falda Falda 1 fili 38-34
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.81 Nodo finale n.86 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;

Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.358 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=567.27 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 17: Tirante in acciaio falda Falda 1 fili 34-32
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.86 Nodo finale n.90 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.303 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=480.484 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=0 Nc,Rd=1586.411 classe 1

Biella 18: Tirante in acciaio falda Falda 1 fili 32-28
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.90 Nodo finale n.98 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.322 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=511.014 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 19: Tirante in acciaio falda Falda 1 fili 29-31
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.99 Nodo finale n.89 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.335 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=531.513 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 20: Tirante in acciaio falda Falda 1 fili 31-35
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.89 Nodo finale n.87 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.289 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=459.173 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=0 Nc,Rd=1586.411 classe 1

Biella 21: Tirante in acciaio falda Falda 1 fili 35-37
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.87 Nodo finale n.80 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.37 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=586.958 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 22: Tirante in acciaio falda Falda 1 fili 37-41
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.80 Nodo finale n.78 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;

fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.467 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=740.377 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 23: Tirante in acciaio falda Falda 1 fili 41-43
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.78 Nodo finale n.71 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.59 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=936.223 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 24: Tirante in acciaio falda Falda 1 fili 43-47
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.71 Nodo finale n.66 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.64 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=1015.623 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 25: Tirante in acciaio falda Falda 1 fili 46-50
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.65 Nodo finale n.63 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.581 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=921.226 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 26: Tirante in acciaio falda Falda 1 fili 50-48
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.63 Nodo finale n.67 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.581 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=921.226 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 27: Tirante in acciaio falda Falda 1 fili 51-47
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.64 Nodo finale n.66 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.597 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=946.348 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 28: Tirante in acciaio falda Falda 1 fili 47-49
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.66 Nodo finale n.62 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;

Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.597 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=946.348 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 29: Tirante in acciaio falda Falda 1 fili 49-53
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.62 Nodo finale n.54 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.501 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=795.251 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 30: Tirante in acciaio falda Falda 1 fili 53-51
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.54 Nodo finale n.64 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.501 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=795.251 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 31: Tirante in acciaio falda Falda 1 fili 54-50
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.55 Nodo finale n.63 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.52 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=825.164 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 32: Tirante in acciaio falda Falda 1 fili 50-52
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.5 Nodo iniziale n.63 Nodo finale n.53 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.52 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=825.164 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 33: Tirante in acciaio falda Falda 1 fili 52-26
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 505 Nodo iniziale n.53 Nodo finale n.51 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.202 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=320.39 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=0 Nc,Rd=1586.411 classe 1

Biella 34: Tirante in acciaio falda Falda 1 fili 26-54
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 505 Nodo iniziale n.51 Nodo finale n.55 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;

fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.202 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=320.39 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=0 Nc,Rd=1586.411 classe 1

Biella 35: Tirante in acciaio falda Falda 1 fili 27-53
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 505 Nodo iniziale n.52 Nodo finale n.54 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.213 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=337.863 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=0 Nc,Rd=1586.411 classe 1

Biella 36: Tirante in acciaio falda Falda 1 fili 53-25
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 505 Nodo iniziale n.54 Nodo finale n.50 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.213 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=337.863 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=0 Nc,Rd=1586.411 classe 1

Biella 37: Tirante in acciaio falda Falda 2 fili 28-17
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.1 Nodo iniziale n.98 Nodo finale n.102 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.212 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=335.563 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=0 Nc,Rd=1586.411 classe 1

Biella 38: Tirante in acciaio falda Falda 2 fili 17-30
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.1 Nodo iniziale n.102 Nodo finale n.100 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.212 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=335.563 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=0 Nc,Rd=1586.411 classe 1

Biella 39: Tirante in acciaio falda Falda 2 fili 18-29
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.1 Nodo iniziale n.103 Nodo finale n.99 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.194 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=308.021 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=0 Nc,Rd=1586.411 classe 1

Biella 40: Tirante in acciaio falda Falda 2 fili 29-16
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.1 Nodo iniziale n.99 Nodo finale n.101 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;

Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.194 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=308.021 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=0 Nc,Rd=1586.411 classe 1

Biella 41: Tirante in acciaio falda Falda 3 fili 16-14
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.7 Nodo iniziale n.101 Nodo finale n.93 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.334 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=529.186 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 42: Tirante in acciaio falda Falda 3 fili 14-18
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.7 Nodo iniziale n.93 Nodo finale n.103 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.334 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=529.186 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 43: Tirante in acciaio falda Falda 3 fili 15-17
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.7 Nodo iniziale n.94 Nodo finale n.102 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.31 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=491.55 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 44: Tirante in acciaio falda Falda 3 fili 17-13
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528.7 Nodo iniziale n.102 Nodo finale n.92 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.31 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=491.55 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 45: Tirante in acciaio falda Falda 4 fili 13-11
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528 Nodo iniziale n.92 Nodo finale n.84 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.351 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=557.158 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 46: Tirante in acciaio falda Falda 4 fili 11-15
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528 Nodo iniziale n.84 Nodo finale n.94 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;

fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.351 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=557.158 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 47: Tirante in acciaio falda Falda 4 fili 12-14
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528 Nodo iniziale n.85 Nodo finale n.93 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.328 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=520.433 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 48: Tirante in acciaio falda Falda 4 fili 14-10
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 528 Nodo iniziale n.93 Nodo finale n.83 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.328 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=520.433 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 49: Tirante in acciaio falda Falda 5 fili 10-8
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 510.5 Nodo iniziale n.83 Nodo finale n.75 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.6 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=951.741 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 50: Tirante in acciaio falda Falda 5 fili 8-12
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 510.5 Nodo iniziale n.75 Nodo finale n.85 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.6 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=951.741 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 51: Tirante in acciaio falda Falda 5 fili 9-11
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 510.5 Nodo iniziale n.76 Nodo finale n.84 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.59 in comb. Famiglia "SLV" 9 x=0
rox =0 roy =0 NEd=935.433 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 7 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1

Biella 52: Tirante in acciaio falda Falda 5 fili 11-7
Unita' di misura: cm, daN, deg, °C, s
Lunghezza= 510.5 Nodo iniziale n.84 Nodo finale n.74 Elemento resistente solo a trazione
Sezione: OS 9.5; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;

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Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Nessuno;
fy=2350 classe peggiore 1

Resistenza: trazione p. 4.2.4.1.2 (4.2.6) NTC08
R1 =0.59 in comb. Famiglia "SLV" 11 x=0
rox =0 roy =0 NEd=935.433 Nt,Rd=1586.411

Resistenza: compressione p. 4.2.4.1.2 (4.2.10) NTC08
R2 =0 in comb. Famiglia "SLV" 5 x=0
rox =0 roy =0 NEd=-0.001 Nc,Rd=1586.411 classe 1
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45 Verifiche superelementi in acciaio

Fy: tensione di snervamento
Fy eff: tensione di snervamento efficace del materiale del profilo tale da modificare il parametro epsilon=(235/fy)0.5 in modo da riportare i rapporti lunghezza spessore dei piatti costituenti la sezione nei limiti della classe 3
lambda: snellezza massima dell'asta
betax: coefficiente di inflessione laterale per inerzia secondo asse X dell'asta
betay: coefficiente di inflessione laterale per inerzia secondo asse Y dell'asta
betam: coefficiente di inflessione laterale per inerzia secondo asse M dell'asta
betan: coefficiente di inflessione laterale per inerzia secondo asse N dell'asta
chi: coefficiente chi per verifica ad instabilità
chix: coefficiente chi.x per verifica ad instabilità secondo asse X dell'asta
chiy: coefficiente chi.y per verifica ad instabilità secondo asse Y dell'asta
chilt: coefficiente chi.lt per verifica ad instabilità flessotorsionale
lambdalt.ad: coefficiente adimensionale lambda.lt per verifica ad instabilità flessotorsionale
bm.x: coefficiente di momento equivalente per Mx
bm.y: coefficiente di momento equivalente per My
bm.lt: coefficiente di momento equivalente per instabilità flessotorsionale
kx: coefficiente per verifica ad instabilità secondo asse X dell'asta
ky: coefficiente per verifica ad instabilità secondo asse Y dell'asta
klt: coefficiente per verifica ad instabilità flessotorsionale
rox: rapporto di taglio ro per verifica di resistenza per flessione e/o compressione con taglio x
roy: rapporto di taglio ro per verifica di resistenza per flessione e/o compressione con taglio y
alfa: costante alfa per verifica di resistenza a flessione deviata
beta: costante beta per verifica di resistenza a flessione deviata
VEd: taglio agente
Vx,Ed: taglio agente Tx
Vy,Ed: taglio agente Ty
Vc,Rd: taglio resistente
Vbw,Rd: taglio resistente di progetto dell'anima
Mx,Ed: momento agente Mx attorno all'asse x del sistema di riferimento geometrico della sezione
My,Ed: momento agente My attorno all'asse y del sistema di riferimento geometrico della sezione
Mc,x,Rd: momento resistente Mx attorno all'asse x del sistema di riferimento geometrico della sezione
Mc,y,Rd: momento resistente My attorno all'asse y del sistema di riferimento geometrico della sezione
Mn,x,Rd: momento resistente Mx, ridotto per la presenza di sforzo normale, attorno all'asse x del sistema di riferimento geometrico della sezione
Mn,y,Rd: momento resistente My, ridotto per la presenza di sforzo normale, attorno all'asse y del sistema di riferimento geometrico della sezione
Npl,Rd: sforzo normale plastico resistente a compressione, eventualmente ridotto per la presenza del taglio
Mb,Rd: momento resistente di progetto per instabilità
Mb,x,Rd: momento resistente di progetto per instabilità Mx attorno all'asse x del sistema di riferimento geometrico della sezione
Mb,y,Rd: momento resistente di progetto per instabilità Mx attorno all'asse y del sistema di riferimento geometrico della sezione
Mx,Sd: momento agente Mx attorno all'asse x del sistema di riferimento geometrico della sezione
My,Sd: momento agente My attorno all'asse y del sistema di riferimento geometrico della sezione
Mx,eff,Sd: momento interno efficace Mx attorno all'asse x del sistema di riferimento geometrico della sezione
NEd: sforzo normale agente
Nt,Rd: sforzo normale resistente a trazione
Nc,Rd: sforzo normale resistente a compressione
Nb,Rd: resistenza di progetto per instabilità della membratura compressa
Nsd: sforzo normale agente
Nt,Sd: valore di progetto della trazione assiale
TEd: momento torcente agente (si considera che il momento torcente del solutore sia solo dovuto alla torsione uniforme)
TRd: resistenza torsionale di progetto
taut,Ed: tensione tangenziale massima dovuta alla torsione uniforme
R1: rapporto di verifica di resistenza a trazione
R2: rapporto di verifica di resistenza a compressione
R3: rapporto di verifica di resistenza a flessione semplice
R4: rapporto di verifica di resistenza a flessione semplice con forza assiale
R5: rapporto di verifica di resistenza a flessione deviata con forza assiale
R6: rapporto di verifica di resistenza a taglio Tx
R7: rapporto di verifica di resistenza a taglio Ty
R8: rapporto di verifica di resistenza a torsione
B1: rapporto di verifica di instabilità a compressione
B2: rapporto di verifica di instabilità a flessione semplice
B3: rapporto di verifica di instabilità a flessione deviata senza svergolamento
B4: rapporto di verifica di instabilità a flessione deviata con compressione senza svergolamento
B5: rapporto di verifica di resistenza a flessione deviata con trazione
B6: rapporto di verifica di instabilità a taglio Tx
B7: rapporto di verifica di instabilità a taglio Tx
S3: rapporto di verifica di instabilità a flessione deviata e svergolamento
S4: rapporto di verifica di instabilità a flessione deviata con compressione e svergolamento
(hw/tw): rapporto altezza-spessore per instabilità al taglio
Mpl,Rd: momento resistente della sezione
Mf,Rd: momento resistente delle ali

MRd,Red: momento resistente ridotto della sezione (7.1) EN 1993-1-5:2007
B8: rapporto Vsd.x/Vrd di verifica di instabilità a taglio Tx con tensioni normali per My<=Mf,Rd
B9.1: rapporto Vsd.x/Vrd di verifica di instabilità a taglio Tx con tensioni normali per My>Mf,Rd e Vx,Ed/Vbw,Rd<=0.5
B9.2: rapporto My/Mrd di verifica di instabilità a taglio Tx con tensioni normali per My>Mf,Rd e Vx,Ed/Vbw,Rd<=0.5
B10.1: rapporto Vsd.x/Vrd di verifica di instabilità a taglio Tx con tensioni normali per My>Mf,Rd e Vx,Ed/Vbw,Rd>0.5
B10.2: rapporto My/Mrd di verifica di instabilità a taglio Tx con tensioni normali per My>Mf,Rd e Vx,Ed/Vbw,Rd>0.5
B10.3: rapporto My/Mrd.red di verifica di instabilità a taglio Tx con tensioni normali per My>Mf,Rd e Vx,Ed/Vbw,Rd>0.5
B11: rapporto Vsd.y/Vrd di verifica di instabilità a taglio Ty con tensioni normali per Mx<=Mf,Rd
B12.1: rapporto Vsd.y/Vrd di verifica di instabilità a taglio Ty con tensioni normali per Mx>Mf,Rd e Vy,Ed/Vbw,Rd<=0.5
B12.2: rapporto Mx/Mrd di verifica di instabilità a taglio Ty con tensioni normali per Mx>Mf,Rd e Vy,Ed/Vbw,Rd<=0.5
B13.1: rapporto Vsd.y/Vrd di verifica di instabilità a taglio Ty con tensioni normali per Mx>Mf,Rd e Vy,Ed/Vbw,Rd>0.5
B13.2: rapporto Mx/Mrd di verifica di instabilità a taglio Ty con tensioni normali per Mx>Mf,Rd e Vy,Ed/Vbw,Rd>0.5
B13.3: rapporto Mx/Mrd.red di verifica di instabilità a taglio Ty con tensioni normali per Mx>Mf,Rd e Vy,Ed/Vbw,Rd>0.5
fx: freccia elastica secondo l'asse x del sistema di riferimento geometrico della sezione positiva se provoca spostamento in direzione opposto all'asse x stesso
fy: freccia elastica secondo l'asse y del sistema di riferimento geometrico della sezione positiva se provoca spostamento in direzione opposto all'asse y stesso
comb: combinazione di verifica
x: distanza della sezione di verifica dall'estremità iniziale dell'asta
e.x: distanza in x tra baricentro sezione geometrica - baricentro sezione efficace
e.y: distanza in y tra baricentro sezione geometrica - baricentro sezione efficace
dMsd.x: variazione del momento agente Mx causato da e.x
dMsd.y: variazione del momento agente causato My da e.y
chi.min: coefficiente chi minimo per verifica ad instabilità

Superelemento in acciaio composto da 2 aste: 14, 13

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Unita' di misura: cm, daN, deg, °C, s
Superelemento di lunghezza complessiva L= 136.1 cm composto da:
asta 13: Trave in acciaio falda Falda 1 fili 25-22 (L = 70.6 cm)
asta 14: Trave in acciaio falda Falda 1 fili 25-22 (L = 65.5 cm)
Nodo iniziale n.50  Nodo finale n.56 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
Non sono stati inseriti ritegni torsionali;
fy=2350 classe peggiore 1
Snellezza 13 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=182639008 Ncr,y=26780842 betam=0.7 betan=0.7

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.028 in comb. Famiglia "SLV" 5 x=136.065 classe 1
Mx,Sd=-38091.395 My,Sd=64748.047 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.196
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.013 in comb. Famiglia "SLV" 7 x=70.552 classe 1
NEd=-310.055 Mx,Ed=38115.309 My,Ed=60166.762
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.421 cm.y=0.409 kxx=0.421 kxy=0.246 kyx=0.738 kyy=0.409
chilt =1 lambdalt.ad =0.111 cmLT =0.421

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 3 fx=0 x=79.287 fy=0 x=70.552 rapp. luce/freccia = 766971.89; freccia < luce/400
```

Superelemento in acciaio composto da 2 aste: 26, 25

```
Unita' di misura: cm, daN, deg, °C, s
Superelemento di lunghezza complessiva L= 136.1 cm composto da:
asta 25: Trave in acciaio falda Falda 1 fili 26-23 (L = 70.6 cm)
asta 26: Trave in acciaio falda Falda 1 fili 26-23 (L = 65.5 cm)
Nodo iniziale n.51  Nodo finale n.57 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
Non sono stati inseriti ritegni torsionali;
fy=2350 classe peggiore 1
Snellezza 13 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=182639008 Ncr,y=26780842 betam=0.7 betan=0.7

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.03 in comb. Famiglia "SLV" 5 x=136.065 classe 1
Mx,Sd=-60313.07 My,Sd=62252.844 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.111
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.016 in comb. Famiglia "SLV" 5 x=70.552 classe 1
NEd=-231.031 Mx,Ed=60313.07 My,Ed=62252.844
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.426 cm.y=0.433 kxx=0.426 kxy=0.26 kyx=0.738 kyy=0.433
chilt =1 lambdalt.ad =0.111 cmLT =0.426

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 5 fx=0 x=92.39 fy=0 x=70.552 rapp. luce/freccia = 682512.006; freccia < luce/400
```

Superelemento in acciaio composto da 2 aste: 32, 31

```
Unita' di misura: cm, daN, deg, °C, s
Superelemento di lunghezza complessiva L= 136.1 cm composto da:
asta 31: Trave in acciaio falda Falda 1 fili 27-24 (L = 70.6 cm)
asta 32: Trave in acciaio falda Falda 1 fili 27-24 (L = 65.5 cm)
Nodo iniziale n.52  Nodo finale n.58 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
```

Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
Non sono stati inseriti ritegni torsionali;
fy=2350 classe peggiore 1
Snellezza 13 curva X a curva Y b chix= 1 chiy= 1 Ncr,x=182639008 Ncr,y=26780842 betam=0.7 betan=0.7

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.028 in comb. Famiglia "SLV" 7 x=136.065 classe 1
Mx,Sd=-38091.395 My,Sd=-64748.047 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.196
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.013 in comb. Famiglia "SLV" 5 x=70.552 classe 1
NEd=-310.055 Mx,Ed=38115.309 My,Ed=60166.762
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.421 cm.y=0.409 kxx=0.421 kxy=0.246 kyx=0.738 kyy=0.409
chilt =1 lambdalt.ad =0.111 cmLT =0.421

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 3 fx=0 x=85.839 fy=0 x=70.552 rapp. luce/freccia = 636120.116; freccia < luce/400

Superelemento in acciaio composto da 3 aste: 18, 17, 16
Unita' di misura: cm, daN, deg, °C, s
Superelemento di lunghezza complessiva L= 292.3 cm composto da:
asta 16: Trave in acciaio falda Falda 1 fili 4-19 (L = 40.3 cm)
asta 17: Trave in acciaio falda Falda 1 fili 4-19 (L = 171.3 cm)
asta 18: Trave in acciaio falda Falda 1 fili 4-19 (L = 80.6 cm)
Nodo iniziale n.175 Nodo finale n.184 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
Non sono stati inseriti ritegni torsionali;
fy=2350 classe peggiore 1
Snellezza 28 curva X a curva Y b chix= 1 chiy= 0.965 Ncr,x=39579028 Ncr,y=5803577.5 betam=0.7 betan=0.7

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.066 in comb. Famiglia "SLV" 1 x=292.288 classe 1
Mx,Sd=549732.063 My,Sd=12653.431 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.243
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.078 in comb. Famiglia "SLV" 3 x=211.657 classe 1
NEd=-595.281 Mx,Ed=714479.75 My,Ed=18462.342
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.709 cm.y=0.639 kxx=0.709 kxy=0.383 kyx=0.897 kyy=0.639
chilt =1 lambdalt.ad =0.243 cmLT =0.709

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=80.295 fy=0.009 x=160.255 rapp. luce/freccia = 31874.431; freccia < luce/400

Superelemento in acciaio composto da 3 aste: 30, 29, 28
Unita' di misura: cm, daN, deg, °C, s
Superelemento di lunghezza complessiva L= 292.3 cm composto da:
asta 28: Trave in acciaio falda Falda 1 fili 5-20 (L = 40.3 cm)
asta 29: Trave in acciaio falda Falda 1 fili 5-20 (L = 171.3 cm)
asta 30: Trave in acciaio falda Falda 1 fili 5-20 (L = 80.6 cm)
Nodo iniziale n.60 Nodo finale n.69 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
Non sono stati inseriti ritegni torsionali;
fy=2350 classe peggiore 1
Snellezza 28 curva X a curva Y b chix= 1 chiy= 0.965 Ncr,x=39579028 Ncr,y=5803577.5 betam=0.7 betan=0.7

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.064 in comb. Famiglia "SLV" 1 x=211.657 classe 1
Mx,Sd=530704.688 My,Sd=10809.894 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.242
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.069 in comb. Famiglia "SLV" 1 x=211.657 classe 1
NEd=-270.329 Mx,Ed=639414.625 My,Ed=16428.742
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.721 cm.y=0.719 kxx=0.721 kxy=0.432 kyx=0.897 kyy=0.719
chilt =1 lambdalt.ad =0.242 cmLT =0.721

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=148.832 fy=0.013 x=160.255 rapp. luce/freccia = 23172.11; freccia < luce/400

Superelemento in acciaio composto da 3 aste: 36, 35, 34
Unita' di misura: cm, daN, deg, °C, s
Superelemento di lunghezza complessiva L= 292.3 cm composto da:
asta 34: Trave in acciaio falda Falda 1 fili 6-21 (L = 40.3 cm)
asta 35: Trave in acciaio falda Falda 1 fili 6-21 (L = 171.3 cm)
asta 36: Trave in acciaio falda Falda 1 fili 6-21 (L = 80.6 cm)
Nodo iniziale n.61 Nodo finale n.70 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
Non sono stati inseriti ritegni torsionali;
fy=2350 classe peggiore 1
Snellezza 28 curva X a curva Y b chix= 1 chiy= 0.965 Ncr,x=39579028 Ncr,y=5803577.5 betam=0.7 betan=0.7

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.063 in comb. Famiglia "SLV" 3 x=292.288 classe 1

Mx,Sd=507560.594 My,Sd=-16605.461 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0 lambdalt.ad 0.243
Verifica a instabilità flesso-torsionale (svergolamento) non necessaria

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
B4 =0.072 in comb. Famiglia "SLV" 1 x=211.657 classe 1
NEd=-534.746 Mx,Ed=659382.313 My,Ed=16315.077
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.712 cm.y=0.715 kxx=0.712 kxy=0.429 kyx=0.897 kyy=0.715
chilt =1 lambdalt.ad =0.243 cmLT =0.712

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=200.234 fy=0.01 x=160.255 rapp. luce/freccia = 29482.456; freccia < luce/400

Superelemento in acciaio composto da 6 aste: 24, 23, 22, 21, 20, 19
Unita' di misura: cm, daN, deg, °C, s
Superelemento di lunghezza complessiva L= 947.4 cm composto da:
asta 19: Trave in acciaio falda Falda 1 fili 19-28 (L = 90.7 cm)
asta 20: Trave in acciaio falda Falda 1 fili 19-28 (L = 171.3 cm)
asta 21: Trave in acciaio falda Falda 1 fili 19-28 (L = 171.3 cm)
asta 22: Trave in acciaio falda Falda 1 fili 19-28 (L = 171.3 cm)
asta 23: Trave in acciaio falda Falda 1 fili 19-28 (L = 171.3 cm)
asta 24: Trave in acciaio falda Falda 1 fili 19-28 (L = 171.3 cm)
Nodo iniziale n.184 Nodo finale n.214 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
Non sono stati inseriti ritegni torsionali;
fy=2350 classe peggiore 1
Snellezza 90 curva X a curva Y b chix= 0.961 chiy= 0.62 Ncr,x=3767085 Ncr,y=552377.688 betam=0.7 betan=0.7

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.003 in comb. Famiglia "SLU" 40 x=798.921
NEd=-830.462 Nb,Rd=302891.625
chi =0.62 classe 1

Instabilità: flessione semplice p. 4.2.4.1.3.2 (4.2.49) NTC08
B2 =0.032 in comb. Famiglia "SLV" 1 x=833.189 classe=1
Mx,Ed=-220354.609 Mb,Rd=6909870
chilt =0.775 lambdalt.ad 0.875

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.084 S3 =0.102 in comb. Famiglia "SLV" 7 x=90.71 classe 1
Mx,Sd=563033.125 My,Sd=55830.172 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0.775 lambdalt.ad 0.875

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
S4 =0.112 in comb. Famiglia "SLV" 3 x=776.076 classe 1
NEd=-538.426 Mx,Ed=714479.75 My,Ed=19089.033
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.629 cm.y=0.952 kxx=0.629 kxy=0.573 kyx=1 kyy=0.955
chilt =0.775 lambdalt.ad =0.875 cmLT =0.629

Instabilità: flessione deviata con trazione p. 4.2.4.1.3.3 NTC08, p. 5.5.3., 5.5.4. ENV 1993-1-1:1994
B5 =0.107 in comb. Famiglia "SLV" 3 x=90.71 classe 1
Nt,Sd=670.615 Mx,sd=703218.375 My,Sd=17354.727 Mx,eff,Sd=695572.125 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0.775 lambdalt.ad =0.875

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=136.401 fy=0.204 x=427.682 rapp. luce/freccia = 4654.672; freccia < luce/400

Superelemento in acciaio composto da 6 aste: 42, 41, 40, 39, 38, 37
Unita' di misura: cm, daN, deg, °C, s
Superelemento di lunghezza complessiva L= 947.4 cm composto da:
asta 37: Trave in acciaio falda Falda 1 fili 21-30 (L = 90.7 cm)
asta 38: Trave in acciaio falda Falda 1 fili 21-30 (L = 171.3 cm)
asta 39: Trave in acciaio falda Falda 1 fili 21-30 (L = 171.3 cm)
asta 40: Trave in acciaio falda Falda 1 fili 21-30 (L = 171.3 cm)
asta 41: Trave in acciaio falda Falda 1 fili 21-30 (L = 171.3 cm)
asta 42: Trave in acciaio falda Falda 1 fili 21-30 (L = 171.3 cm)
Nodo iniziale n.186 Nodo finale n.216 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
Non sono stati inseriti ritegni torsionali;
fy=2350 classe peggiore 1
Snellezza 90 curva X a curva Y b chix= 0.961 chiy= 0.62 Ncr,x=3767085 Ncr,y=552377.688 betam=0.7 betan=0.7

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.003 in comb. Famiglia "SLU" 40 x=798.921
NEd=-830.462 Nb,Rd=302891.625
chi =0.62 classe 1

Instabilità: flessione semplice p. 4.2.4.1.3.2 (4.2.49) NTC08
B2 =0.032 in comb. Famiglia "SLV" 3 x=833.189 classe=1
Mx,Ed=-220354.609 Mb,Rd=6909870
chilt =0.775 lambdalt.ad 0.875

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.084 S3 =0.102 in comb. Famiglia "SLV" 5 x=90.71 classe 1
Mx,Sd=563033.125 My,Sd=-55830.172 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0.775 lambdalt.ad 0.875

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2

S4 =0.112 in comb. Famiglia "SLV" 1 x=776.076 classe 1
NEd=-538.426 Mx,Ed=714479.75 My,Ed=19089.033
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.629 cm.y=0.952 kxx=0.629 kxy=0.573 kyx=1 kyy=0.955
chilt =0.775 lambdalt.ad =0.875 cmLT =0.629

Instabilità: flessione deviata con trazione p. 4.2.4.1.3.3 NTC08, p. 5.5.3., 5.5.4. ENV 1993-1-1:1994
B5 =0.107 in comb. Famiglia "SLV" 1 x=90.71 classe 1
Nt,Sd=670.615 Mx,sd=703218.375 My,Sd=-17354.727 Mx,eff,Sd=695572.125 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0.775 lambdalt.ad =0.875

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=136.401 fy=0.204 x=427.682 rapp. luce/freccia = 4654.672; freccia < luce/400

Superelemento in acciaio composto da 6 aste: 48, 47, 46, 45, 44, 43
Unita' di misura: cm, daN, deg, °C, s
Superelemento di lunghezza complessiva L= 947.4 cm composto da:
asta 43: Trave in acciaio falda Falda 1 fili 20-29 (L = 90.7 cm)
asta 44: Trave in acciaio falda Falda 1 fili 20-29 (L = 171.3 cm)
asta 45: Trave in acciaio falda Falda 1 fili 20-29 (L = 171.3 cm)
asta 46: Trave in acciaio falda Falda 1 fili 20-29 (L = 171.3 cm)
asta 47: Trave in acciaio falda Falda 1 fili 20-29 (L = 171.3 cm)
asta 48: Trave in acciaio falda Falda 1 fili 20-29 (L = 171.3 cm)
Nodo iniziale n.185 Nodo finale n.215 Cerniera iniziale: No Cerniera finale: No
Sezione: HEB450; Materiale: S235; Rotazione: 0°; Sovraresistenza:0%; Sisma Z:No;
Mensola Y: Nessuno; Mensola X: Nessuno; Svergolamento: Estradosso;
Non sono stati inseriti ritegni torsionali;
fy=2350 classe peggiore 1
Snellezza 90 curva X a curva Y b chix= 0.961 chiy= 0.62 Ncr,x=3767085 Ncr,y=552377.688 betam=0.7 betan=0.7

Instabilità: compressione semplice p. 4.2.4.1.3.1 (4.2.42) NTC08
B1 =0.006 in comb. Famiglia "SLU" 23 x=821.767
NEd=-1743.08 Nb,Rd=302891.625
chi =0.62 classe 1

Instabilità: flessione semplice p. 4.2.4.1.3.2 (4.2.49) NTC08
B2 =0.016 in comb. Famiglia "SLU" 47 x=387.702 classe=1
Mx,Ed=108806.219 Mb,Rd=6909870
chilt =0.775 lambdalt.ad 0.875

Instabilità: flessione deviata p. 4.2.4.1.3.3 NTC08, p. 5.5.4. ENV 1993-1-1:1994
B3 =0.079 S3 =0.101 in comb. Famiglia "SLV" 1 x=262.052 classe 1
Mx,Sd=672594 My,Sd=-9423.459 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0.775 lambdalt.ad 0.875

Instabilità: flessione deviata con compressione p. 4.2.4.1.3.3 NTC08, C4.2.4.1.3.3.2
S4 =0.122 in comb. Famiglia "SLU" 49 x=0 classe 1
NEd=-3007.085 Mx,Ed=774076.375 My,Ed=0
NRk=512592.844 Mx,Rk=9365097 My,Rk=2815073
cm.x=0.939 cm.y=0.6 kxx=0.94 kxy=0.365 kyx=0.999 kyy=0.608
chilt =0.775 lambdalt.ad =0.875 cmLT =0.939

Instabilità: flessione deviata con trazione p. 4.2.4.1.3.3 NTC08, p. 5.5.3., 5.5.4. ENV 1993-1-1:1994
B5 =0.11 in comb. Famiglia "SLV" 1 x=90.71 classe 1
Nt,Sd=362.295 Mx,sd=710840.438 My,Sd=-20815.59 Mx,eff,Sd=706709.563 Mb,x,Rd=8919141 Mb,y,Rd=2681022
chilt =0.775 lambdalt.ad =0.875

Frecce massime e minime nelle combinazioni (relative alla congiungente nodo iniziale nodo finale): solo comb. peggiore
comb. Famiglia "SLE rara" 10 fx=0 x=353.434 fy=0.295 x=433.393 rapp. luce/freccia = 3215.982; freccia < luce/400

46 Verifiche nodi in acciaio

Nodo attacco controvento Asta 1 Nodo 60
valori in daN, cm

Legenda dei simboli utilizzati:

Asse X	asse locale baricentrico dell'asta portata parallelo alle ali del profilo
Asse Y	asse locale baricentrico dell'asta portata parallelo all'anima del profilo
N	sforzo normale
Ty	taglio secondo l'asse Y
Mx	momento flettente attorno all'asse X
FvEd	taglio massimo per i bulloni
FvRd	resistenza di calcolo di taglio per i bulloni
FbEd	forza massima di progetto a rifollamento
FbRd	resistenza di calcolo a rifollamento
R	rapporto di verifica tra azione agente e azione resistente
VEd	taglio massimo sul profilo
VcRd	resistenza a taglio del profilo
MEd	momento massimo sul profilo
McRd	resistenza flessionale del profilo
fd.rid	resistenza di calcolo ridotta per le saldature
FwEd	forza di progetto per unità di lunghezza della saldatura
FwRd	resistenza di progetto per unità di lunghezza della saldatura
fris	resistenza di progetto per unità di lunghezza della saldatura
sigma ort	tensione resitente della saldatura
ftk	resistenza a rottura per trazione della saldatura
beta	coefficiente di correlazione
gammaM2	coefficiente parziale di sicureza per collegamenti saldati

piastra S275 spessore 10 mm

Aste:

asta 1: Tirante in acciaio falda Falda 1 fili 46-44
asta 2: Trave in acciaio falda Falda 1 fili 20-29

asta n° 1 prof. OS 9.5 S235
Sollecitazioni agenti (daN, cm)

Combinazione	N	Ty	Mx
1 Famiglia SLU	5.8157E+00	7.4663E-14	0.0000E+00
2 Famiglia SLU	9.6042E+01	-5.173E-13	0.0000E+00
3 Famiglia SLU	6.5616E+01	-3.285E-13	0.0000E+00
4 Famiglia SLU	-4.607E-05	6.0535E-16	0.0000E+00
5 Famiglia SLU	9.1152E+00	-8.615E-14	0.0000E+00
6 Famiglia SLU	1.0471E+02	-5.987E-13	0.0000E+00
7 Famiglia SLU	7.4196E+01	-4.476E-13	0.0000E+00
8 Famiglia SLU	-3.725E-05	8.1177E-14	0.0000E+00
9 Famiglia SLU	1.7838E+01	2.6341E-15	0.0000E+00
10 Famiglia SLU	2.3057E+01	-1.036E-13	0.0000E+00
11 Famiglia SLU	7.7292E+01	-3.555E-13	0.0000E+00
12 Famiglia SLU	-7.641E-06	-6.047E-14	0.0000E+00
13 Famiglia SLU	4.6723E+01	-2.821E-13	0.0000E+00
14 Famiglia SLU	1.4071E+01	-7.739E-14	0.0000E+00
15 Famiglia SLU	1.0434E+02	-4.808E-13	0.0000E+00
16 Famiglia SLU	7.3833E+01	-3.312E-13	0.0000E+00
17 Famiglia SLU	-3.762E-05	-1.023E-13	0.0000E+00
18 Famiglia SLU	1.7477E+01	-9.585E-14	0.0000E+00
19 Famiglia SLU	1.1295E+02	-6.751E-13	0.0000E+00
20 Famiglia SLU	8.2412E+01	-4.436E-13	0.0000E+00
21 Famiglia SLU	-2.880E-05	-2.174E-14	0.0000E+00
22 Famiglia SLU	2.6106E+01	-3.494E-14	0.0000E+00
23 Famiglia SLU	3.1313E+01	-6.439E-14	0.0000E+00
24 Famiglia SLU	8.5575E+01	-3.783E-13	0.0000E+00
25 Famiglia SLU	8.1282E-01	4.4361E-14	0.0000E+00
26 Famiglia SLU	5.5040E+01	-1.939E-13	0.0000E+00
27 Famiglia SLU	7.5604E+00	2.5201E-14	0.0000E+00
28 Famiglia SLU	9.7775E+01	-5.706E-13	0.0000E+00
29 Famiglia SLU	6.7344E+01	-4.433E-13	0.0000E+00
30 Famiglia SLU	-4.430E-05	7.3478E-15	0.0000E+00
31 Famiglia SLU	1.0832E+01	-1.435E-13	0.0000E+00
32 Famiglia SLU	1.0645E+02	-6.416E-13	0.0000E+00
33 Famiglia SLU	7.5923E+01	-3.674E-13	0.0000E+00
34 Famiglia SLU	-3.548E-05	-9.784E-14	0.0000E+00
35 Famiglia SLU	1.9560E+01	-1.911E-13	0.0000E+00
36 Famiglia SLU	2.4802E+01	-6.663E-14	0.0000E+00
37 Famiglia SLU	7.9037E+01	-3.140E-13	0.0000E+00
38 Famiglia SLU	-5.884E-06	2.9014E-14	0.0000E+00
39 Famiglia SLU	4.8451E+01	-2.112E-13	0.0000E+00
40 Famiglia SLU	1.5816E+01	-1.281E-14	0.0000E+00
41 Famiglia SLU	1.0608E+02	-5.051E-13	0.0000E+00
42 Famiglia SLU	7.5561E+01	-4.460E-13	0.0000E+00
43 Famiglia SLU	-3.585E-05	-9.807E-14	0.0000E+00
44 Famiglia SLU	1.9199E+01	-1.063E-13	0.0000E+00
45 Famiglia SLU	1.1473E+02	-5.353E-13	0.0000E+00
46 Famiglia SLU	8.4164E+01	-3.428E-13	0.0000E+00
47 Famiglia SLU	-2.703E-05	1.0428E-13	0.0000E+00
48 Famiglia SLU	2.7826E+01	-6.882E-14	0.0000E+00
49 Famiglia SLU	3.3057E+01	-1.739E-13	0.0000E+00
50 Famiglia SLU	8.7320E+01	-4.702E-13	0.0000E+00
51 Famiglia SLU	2.6745E+00	-8.012E-14	0.0000E+00
52 Famiglia SLU	5.6784E+01	-1.979E-13	0.0000E+00
1 Famiglia SLV	-2.429E-04	5.1788E-14	0.0000E+00
2 Famiglia SLV	-2.429E-04	5.1788E-14	0.0000E+00
3 Famiglia SLV	3.7034E+02	-1.974E-12	0.0000E+00
4 Famiglia SLV	3.7034E+02	-1.974E-12	0.0000E+00
5 Famiglia SLV	-1.012E-03	4.4328E-15	0.0000E+00
6 Famiglia SLV	-1.012E-03	4.4328E-15	0.0000E+00
7 Famiglia SLV	1.0385E+03	-5.280E-12	0.0000E+00
8 Famiglia SLV	1.0385E+03	-5.280E-12	0.0000E+00
9 Famiglia SLV	-1.047E-03	1.0611E-13	0.0000E+00
10 Famiglia SLV	-1.047E-03	1.0611E-13	0.0000E+00
11 Famiglia SLV	1.0049E+03	-5.115E-12	0.0000E+00
12 Famiglia SLV	1.0049E+03	-5.115E-12	0.0000E+00
13 Famiglia SLV	-3.585E-04	5.4751E-14	0.0000E+00
14 Famiglia SLV	-3.585E-04	5.4751E-14	0.0000E+00
15 Famiglia SLV	2.5850E+02	-1.234E-12	0.0000E+00
16 Famiglia SLV	2.5850E+02	-1.234E-12	0.0000E+00

Collegamento saldato
Verifica di resistenza della piastra
trazione:
R = 0.077 < 1 NEd = 1038.5 daN NuRd = 13457.8 daN
comb. 7 fam. SLV N 1.0385E+03 daN Mx 0.0000E+00 daN*cm Ty -5.280E-12 daN
Verifica di resistenza delle saldature
FwEd = 116.7 daN/cm < FwRd = 734.8 daN/cm
comb. 7 fam. SLV N 1.0385E+03 daN Mx 0.0000E+00 daN*cm Ty -5.280E-12 daN

Verifica di resistenza delle saldature del fazzoletto
FwEd = 107.1 daN/cm < FwRd = 1175.8 daN/cm
comb. 7 fam. SLV N 1.0385E+03 daN Mx 0.0000E+00 daN*cm Ty -5.280E-12 daN

Nodo attacco controvento Asta 4 Nodo 69
valori in daN, cm

Legenda dei simboli utilizzati:
Asse X asse locale baricentrico dell'asta portata parallelo alle ali del profilo

Asse Y	asse locale baricentrico dell'asta portata parallelo all'anima del profilo
N	sforzo normale
Ty	taglio secondo l'asse Y
Mx	momento flettente attorno all'asse X
FvEd	taglio massimo per i bulloni
FvRd	resistenza di calcolo di taglio per i bulloni
FbEd	forza massima di progetto a rifollamento
FbRd	resistenza di calcolo a rifollamento
R	rapporto di verifica tra azione agente e azione resistente
VEd	taglio massimo sul profilo
VcRd	resistenza a taglio del profilo
MEd	momento massimo sul profilo
McRd	resistenza flessionale del profilo
fd.rid	resistenza di calcolo ridotta per le saldature
FwEd	forza di progetto per unità di lunghezza della saldatura
FwRd	resistenza di progetto per unità di lunghezza della saldatura
fris	resistenza di progetto per unità di lunghezza della saldatura
sigma ort	tensione resitente della saldatura
ftk	resistenza a rottura per trazione della saldatura
beta	coefficiente di correlazione
gammaM2	coefficiente parziale di sicureza per collegamenti saldati

piastra S275 spessore 10 mm

Aste:
asta 1: Tirante in acciaio falda Falda 1 fili 38-40
asta 2: Trave in acciaio falda Falda 1 fili 20-29

asta n° 1 prof. OS 9.5 S235
Sollecitazioni agenti (daN, cm)

Combinazione	N	Ty	Mx
1 Famiglia SLU	5.6532E+00	0.0000E+00	0.0000E+00
2 Famiglia SLU	3.7998E+01	0.0000E+00	0.0000E+00
3 Famiglia SLU	7.7434E+00	0.0000E+00	0.0000E+00
4 Famiglia SLU	-4.553E-05	0.0000E+00	0.0000E+00
5 Famiglia SLU	-2.584E-05	0.0000E+00	0.0000E+00
6 Famiglia SLU	4.6557E+01	0.0000E+00	0.0000E+00
7 Famiglia SLU	1.6174E+01	0.0000E+00	0.0000E+00
8 Famiglia SLU	-3.691E-05	0.0000E+00	0.0000E+00
9 Famiglia SLU	-1.712E-05	0.0000E+00	0.0000E+00
10 Famiglia SLU	2.2505E+01	0.0000E+00	0.0000E+00
11 Famiglia SLU	4.2131E+01	0.0000E+00	0.0000E+00
12 Famiglia SLU	-7.779E-06	0.0000E+00	0.0000E+00
13 Famiglia SLU	1.1767E+01	0.0000E+00	0.0000E+00
14 Famiglia SLU	1.3728E+01	0.0000E+00	0.0000E+00
15 Famiglia SLU	4.6205E+01	0.0000E+00	0.0000E+00
16 Famiglia SLU	1.5823E+01	0.0000E+00	0.0000E+00
17 Famiglia SLU	-3.726E-05	0.0000E+00	0.0000E+00
18 Famiglia SLU	-1.748E-05	0.0000E+00	0.0000E+00
19 Famiglia SLU	5.4637E+01	0.0000E+00	0.0000E+00
20 Famiglia SLU	2.4254E+01	0.0000E+00	0.0000E+00
21 Famiglia SLU	-2.864E-05	0.0000E+00	0.0000E+00
22 Famiglia SLU	-8.883E-06	0.0000E+00	0.0000E+00
23 Famiglia SLU	3.0580E+01	0.0000E+00	0.0000E+00
24 Famiglia SLU	5.0223E+01	0.0000E+00	0.0000E+00
25 Famiglia SLU	4.9039E-01	0.0000E+00	0.0000E+00
26 Famiglia SLU	2.0035E+01	0.0000E+00	0.0000E+00
27 Famiglia SLU	7.3492E+00	0.0000E+00	0.0000E+00
28 Famiglia SLU	3.9693E+01	0.0000E+00	0.0000E+00
29 Famiglia SLU	9.4372E+00	0.0000E+00	0.0000E+00
30 Famiglia SLU	-4.381E-05	0.0000E+00	0.0000E+00
31 Famiglia SLU	-2.413E-05	0.0000E+00	0.0000E+00
32 Famiglia SLU	4.8262E+01	0.0000E+00	0.0000E+00
33 Famiglia SLU	1.7868E+01	0.0000E+00	0.0000E+00
34 Famiglia SLU	-3.519E-05	0.0000E+00	0.0000E+00
35 Famiglia SLU	-1.542E-05	0.0000E+00	0.0000E+00
36 Famiglia SLU	2.4201E+01	0.0000E+00	0.0000E+00
37 Famiglia SLU	4.3843E+01	0.0000E+00	0.0000E+00
38 Famiglia SLU	-6.071E-06	0.0000E+00	0.0000E+00
39 Famiglia SLU	1.3461E+01	0.0000E+00	0.0000E+00
40 Famiglia SLU	1.5424E+01	0.0000E+00	0.0000E+00
41 Famiglia SLU	4.7910E+01	0.0000E+00	0.0000E+00
42 Famiglia SLU	1.7517E+01	0.0000E+00	0.0000E+00
43 Famiglia SLU	-3.554E-05	0.0000E+00	0.0000E+00
44 Famiglia SLU	-1.577E-05	0.0000E+00	0.0000E+00
45 Famiglia SLU	5.6401E+01	0.0000E+00	0.0000E+00
46 Famiglia SLU	2.6002E+01	0.0000E+00	0.0000E+00
47 Famiglia SLU	-2.692E-05	0.0000E+00	0.0000E+00
48 Famiglia SLU	-7.179E-06	0.0000E+00	0.0000E+00
49 Famiglia SLU	3.2276E+01	0.0000E+00	0.0000E+00
50 Famiglia SLU	5.1936E+01	0.0000E+00	0.0000E+00
51 Famiglia SLU	2.3038E+00	0.0000E+00	0.0000E+00
52 Famiglia SLU	2.1749E+01	0.0000E+00	0.0000E+00
1 Famiglia SLV	-1.581E-04	0.0000E+00	0.0000E+00
2 Famiglia SLV	-1.581E-04	0.0000E+00	0.0000E+00
3 Famiglia SLV	2.8658E+02	0.0000E+00	0.0000E+00
4 Famiglia SLV	2.8658E+02	0.0000E+00	0.0000E+00
5 Famiglia SLV	-7.290E-04	0.0000E+00	0.0000E+00
6 Famiglia SLV	-7.290E-04	0.0000E+00	0.0000E+00
7 Famiglia SLV	7.5948E+02	0.0000E+00	0.0000E+00
8 Famiglia SLV	7.5948E+02	0.0000E+00	0.0000E+00
9 Famiglia SLV	-7.638E-04	0.0000E+00	0.0000E+00
10 Famiglia SLV	-7.638E-04	0.0000E+00	0.0000E+00
11 Famiglia SLV	7.2588E+02	0.0000E+00	0.0000E+00
12 Famiglia SLV	7.2588E+02	0.0000E+00	0.0000E+00
13 Famiglia SLV	-2.742E-04	0.0000E+00	0.0000E+00
14 Famiglia SLV	-2.742E-04	0.0000E+00	0.0000E+00

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  15 Famiglia SLV               1.7456E+02 0.0000E+00 0.0000E+00
  16 Famiglia SLV               1.7456E+02 0.0000E+00 0.0000E+00

Collegamento saldato
Verifica di resistenza della piastra
trazione:
R = 0.056 <  1   NEd =     759.5 daN NuRd =    13457.8 daN
comb.   7 fam. SLV N 7.5948E+02 daN  Mx 0.0000E+00 daN*cm  Ty 0.0000E+00 daN
Verifica di resistenza delle saldature
FwEd =    85.3 daN/cm <   FwRd =   734.8 daN/cm
comb.   7 fam. SLV N 7.5948E+02 daN  Mx 0.0000E+00 daN*cm  Ty 0.0000E+00 daN

Verifica di resistenza delle saldature del fazzoletto
FwEd =    78.3 daN/cm <   FwRd =  1175.8 daN/cm
comb.   7 fam. SLV N 7.5948E+02 daN  Mx 0.0000E+00 daN*cm  Ty 0.0000E+00 daN
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Nodo attacco controvento Asta 5 Nodo 187

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valori in daN, cm

Legenda dei simboli utilizzati:
Asse X        asse locale baricentrico dell'asta portata parallelo alle ali del profilo
Asse Y        asse locale baricentrico dell'asta portata parallelo all'anima del profilo
N             sforzo normale
Ty            taglio secondo l'asse Y
Mx            momento flettente attorno all'asse X
FvEd          taglio massimo per i bulloni
FvRd          resistenza di calcolo di taglio per i bulloni
FbEd          forza massima di progetto a rifollamento
FbRd          resistenza di calcolo a rifollamento
R             rapporto di verifica tra azione agente e azione resistente
VEd           taglio massimo sul profilo
VcRd          resistenza a taglio del profilo
MEd           momento massimo sul profilo
McRd          resistenza flessionale del profilo
fd.rid        resistenza di calcolo ridotta per le saldature
FwEd          forza di progetto per unità di lunghezza della saldatura
FwRd          resistenza di progetto per unità di lunghezza della saldatura
fris          resistenza di progetto per unità di lunghezza della saldatura
sigma ort     tensione resitente della saldatura
ftk           resistenza a rottura per trazione della saldatura
beta          coefficiente di correlazione
gammaM2       coefficiente parziale di sicureza per collegamenti saldati
bulloni dimensionati per gli sforzi effettivi nelle aste
classe bulloni  8.8
bulloni sollecitati nelle sezioni filettate
piastra S235 spessore 10 mm

Aste:
asta  1: Tirante in acciaio falda Falda 1 fili 40-44
asta  2: Trave in acciaio falda Falda 1 fili 19-28

asta n° 1 prof. OS 9.5   S235
Sollecitazioni agenti (daN, cm)
Combinazione                    N         Ty         Mx
   1 Famiglia SLU               -6.238E-06 0.0000E+00 0.0000E+00
   2 Famiglia SLU               -7.430E-05 0.0000E+00 0.0000E+00
   3 Famiglia SLU               -4.274E-05 0.0000E+00 0.0000E+00
   4 Famiglia SLU               4.4671E+01 0.0000E+00 0.0000E+00
   5 Famiglia SLU               5.2853E+00 0.0000E+00 0.0000E+00
   6 Famiglia SLU               -8.337E-05 0.0000E+00 0.0000E+00
   7 Famiglia SLU               -5.168E-05 0.0000E+00 0.0000E+00
   8 Famiglia SLU               3.6025E+01 0.0000E+00 0.0000E+00
   9 Famiglia SLU               -3.639E-06 0.0000E+00 0.0000E+00
  10 Famiglia SLU               -2.420E-05 0.0000E+00 0.0000E+00
  11 Famiglia SLU               -6.520E-05 0.0000E+00 0.0000E+00
  12 Famiglia SLU               7.1299E+00 0.0000E+00 0.0000E+00
  13 Famiglia SLU               -3.347E-05 0.0000E+00 0.0000E+00
  14 Famiglia SLU               -1.483E-05 0.0000E+00 0.0000E+00
  15 Famiglia SLU               -8.299E-05 0.0000E+00 0.0000E+00
  16 Famiglia SLU               -5.130E-05 0.0000E+00 0.0000E+00
  17 Famiglia SLU               3.6392E+01 0.0000E+00 0.0000E+00
  18 Famiglia SLU               -3.263E-06 0.0000E+00 0.0000E+00
  19 Famiglia SLU               -9.196E-05 0.0000E+00 0.0000E+00
  20 Famiglia SLU               -6.024E-05 0.0000E+00 0.0000E+00
  21 Famiglia SLU               2.7746E+01 0.0000E+00 0.0000E+00
  22 Famiglia SLU               -1.216E-05 0.0000E+00 0.0000E+00
  23 Famiglia SLU               -3.279E-05 0.0000E+00 0.0000E+00
  24 Famiglia SLU               -7.383E-05 0.0000E+00 0.0000E+00
  25 Famiglia SLU               -1.153E-06 0.0000E+00 0.0000E+00
  26 Famiglia SLU               -4.217E-05 0.0000E+00 0.0000E+00
  27 Famiglia SLU               -8.109E-06 0.0000E+00 0.0000E+00
  28 Famiglia SLU               -7.617E-05 0.0000E+00 0.0000E+00
  29 Famiglia SLU               -4.460E-05 0.0000E+00 0.0000E+00
  30 Famiglia SLU               4.2885E+01 0.0000E+00 0.0000E+00
  31 Famiglia SLU               3.4955E+00 0.0000E+00 0.0000E+00
  32 Famiglia SLU               -8.524E-05 0.0000E+00 0.0000E+00
  33 Famiglia SLU               -5.354E-05 0.0000E+00 0.0000E+00
  34 Famiglia SLU               3.4239E+01 0.0000E+00 0.0000E+00
  35 Famiglia SLU               -5.472E-06 0.0000E+00 0.0000E+00
  36 Famiglia SLU               -2.607E-05 0.0000E+00 0.0000E+00
  37 Famiglia SLU               -6.709E-05 0.0000E+00 0.0000E+00
  38 Famiglia SLU               5.3543E+00 0.0000E+00 0.0000E+00
  39 Famiglia SLU               -3.533E-05 0.0000E+00 0.0000E+00
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  40 Famiglia SLU               -1.671E-05 0.0000E+00 0.0000E+00
  41 Famiglia SLU               -8.486E-05 0.0000E+00 0.0000E+00
  42 Famiglia SLU               -5.316E-05 0.0000E+00 0.0000E+00
  43 Famiglia SLU               3.4606E+01 0.0000E+00 0.0000E+00
  44 Famiglia SLU               -5.097E-06 0.0000E+00 0.0000E+00
  45 Famiglia SLU               -9.389E-05 0.0000E+00 0.0000E+00
  46 Famiglia SLU               -6.213E-05 0.0000E+00 0.0000E+00
  47 Famiglia SLU               2.5960E+01 0.0000E+00 0.0000E+00
  48 Famiglia SLU               -1.399E-05 0.0000E+00 0.0000E+00
  49 Famiglia SLU               -3.467E-05 0.0000E+00 0.0000E+00
  50 Famiglia SLU               -7.572E-05 0.0000E+00 0.0000E+00
  51 Famiglia SLU               -3.195E-06 0.0000E+00 0.0000E+00
  52 Famiglia SLU               -4.406E-05 0.0000E+00 0.0000E+00
   1 Famiglia SLV               2.0615E+02 0.0000E+00 0.0000E+00
   2 Famiglia SLV               2.0615E+02 0.0000E+00 0.0000E+00
   3 Famiglia SLV               -3.498E-04 0.0000E+00 0.0000E+00
   4 Famiglia SLV               -3.498E-04 0.0000E+00 0.0000E+00
   5 Famiglia SLV               8.8253E+02 0.0000E+00 0.0000E+00
   6 Famiglia SLV               8.8253E+02 0.0000E+00 0.0000E+00
   7 Famiglia SLV               -9.650E-04 0.0000E+00 0.0000E+00
   8 Famiglia SLV               -9.650E-04 0.0000E+00 0.0000E+00
   9 Famiglia SLV               9.1590E+02 0.0000E+00 0.0000E+00
  10 Famiglia SLV               9.1590E+02 0.0000E+00 0.0000E+00
  11 Famiglia SLV               -9.307E-04 0.0000E+00 0.0000E+00
  12 Famiglia SLV               -9.307E-04 0.0000E+00 0.0000E+00
  13 Famiglia SLV               3.1740E+02 0.0000E+00 0.0000E+00
  14 Famiglia SLV               3.1740E+02 0.0000E+00 0.0000E+00
  15 Famiglia SLV               -2.357E-04 0.0000E+00 0.0000E+00
  16 Famiglia SLV               -2.357E-04 0.0000E+00 0.0000E+00

Collegamento bullonato
dbull 12 mm  pinza  24 mm  interasse  36 mm  nbull   1
Verifica a taglio, rifollamento e block tearing per la bullonatura
taglio (2 sezioni resistenti):
FvEd =   458.0 daN <  FvRd =  3237.1 daN
comb.   9 fam. SLV N 9.1590E+02 daN  Mx 0.0000E+00 daN*cm  Ty 0.0000E+00 daN

Verifiche a rifollamento e di resistenza della forchetta: non effettuate

rifollamento sulla piastra:
FbEd =   915.9 daN <  FbRd =  4946.0 daN
comb.   9 fam. SLV N 9.1590E+02 daN  Mx 0.0000E+00 daN*cm  Ty 0.0000E+00 daN

Verifica di resistenza della piastra
trazione:
R = 0.057 <  1   NEd =     915.9 daN NuRd =    15997.3 daN
comb.   9 fam. SLV N 9.1590E+02 daN  Mx 0.0000E+00 daN*cm  Ty 0.0000E+00 daN

Verifica di resistenza delle saldature del fazzoletto
FwEd =    65.7 daN/cm <   FwRd =  1175.8 daN/cm
comb.   9 fam. SLV N 9.1590E+02 daN  Mx 0.0000E+00 daN*cm  Ty 0.0000E+00 daN
```

Nodo attacco controvento Asta 7 Nodo 61

```
valori in daN, cm

Legenda dei simboli utilizzati:
Asse X        asse locale baricentrico dell'asta portata parallelo alle ali del profilo
Asse Y        asse locale baricentrico dell'asta portata parallelo all'anima del profilo
N             sforzo normale
Ty            taglio secondo l'asse Y
Mx            momento flettente attorno all'asse X
FvEd          taglio massimo per i bulloni
FvRd          resistenza di calcolo di taglio per i bulloni
FbEd          forza massima di progetto a rifollamento
FbRd          resistenza di calcolo a rifollamento
R             rapporto di verifica tra azione agente e azione resistente
VEd           taglio massimo sul profilo
VcRd          resistenza a taglio del profilo
MEd           momento massimo sul profilo
McRd          resistenza flessionale del profilo
fd.rid        resistenza di calcolo ridotta per le saldature
FwEd          forza di progetto per unità di lunghezza della saldatura
FwRd          resistenza di progetto per unità di lunghezza della saldatura
fris          resistenza di progetto per unità di lunghezza della saldatura
sigma ort     tensione resitente della saldatura
ftk           resistenza a rottura per trazione della saldatura
beta          coefficiente di correlazione
gammaM2       coefficiente parziale di sicureza per collegamenti saldati
bulloni dimensionati per gli sforzi effettivi nelle aste
classe bulloni  8.8
bulloni sollecitati nelle sezioni filettate
piastra S275 spessore 10 mm

Aste:
asta  1: Tirante in acciaio falda Falda 1 fili 47-45
asta  2: Trave in acciaio falda Falda 1 fili 21-30

asta n° 1 prof. OS 9.5   S235
Sollecitazioni agenti (daN, cm)
Combinazione                    N         Ty         Mx
   1 Famiglia SLU               -6.143E-06 1.5362E-14 0.0000E+00
   2 Famiglia SLU               1.4366E+02 1.4772E-11 0.0000E+00
   3 Famiglia SLU               1.7411E+02 1.7821E-11 0.0000E+00
   4 Famiglia SLU               4.4818E+01 4.6237E-12 0.0000E+00
   5 Famiglia SLU               1.3447E+02 1.3686E-11 0.0000E+00
```

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   6 Famiglia SLU               1.3498E+02 1.3880E-11 0.0000E+00
   7 Famiglia SLU               1.6549E+02 1.6969E-11 0.0000E+00
   8 Famiglia SLU               3.6175E+01 3.6812E-12 0.0000E+00
   9 Famiglia SLU               1.2592E+02 1.2909E-11 0.0000E+00
  10 Famiglia SLU               -2.410E-05 -7.352E-15 0.0000E+00
  11 Famiglia SLU               6.6457E+01 6.8974E-12 0.0000E+00
  12 Famiglia SLU               7.2604E+00 6.4682E-13 0.0000E+00
  13 Famiglia SLU               9.7033E+01 9.9272E-12 0.0000E+00
  14 Famiglia SLU               -1.474E-05 -3.798E-14 0.0000E+00
  15 Famiglia SLU               1.3534E+02 1.3889E-11 0.0000E+00
  16 Famiglia SLU               1.6585E+02 1.6985E-11 0.0000E+00
  17 Famiglia SLU               3.6541E+01 3.8147E-12 0.0000E+00
  18 Famiglia SLU               1.2629E+02 1.2986E-11 0.0000E+00
  19 Famiglia SLU               1.2671E+02 1.3075E-11 0.0000E+00
  20 Famiglia SLU               1.5723E+02 1.6097E-11 0.0000E+00
  21 Famiglia SLU               2.7897E+01 2.8721E-12 0.0000E+00
  22 Famiglia SLU               1.1763E+02 1.2047E-11 0.0000E+00
  23 Famiglia SLU               -3.270E-05 -2.485E-14 0.0000E+00
  24 Famiglia SLU               5.8149E+01 6.0590E-12 0.0000E+00
  25 Famiglia SLU               -1.020E-06 8.2005E-14 0.0000E+00
  26 Famiglia SLU               8.8718E+01 9.0380E-12 0.0000E+00
  27 Famiglia SLU               -7.986E-06 3.4114E-14 0.0000E+00
  28 Famiglia SLU               1.4191E+02 1.4598E-11 0.0000E+00
  29 Famiglia SLU               1.7236E+02 1.7553E-11 0.0000E+00
  30 Famiglia SLU               4.3061E+01 4.4960E-12 0.0000E+00
  31 Famiglia SLU               1.3273E+02 1.3672E-11 0.0000E+00
  32 Famiglia SLU               1.3322E+02 1.3714E-11 0.0000E+00
  33 Famiglia SLU               1.6374E+02 1.6702E-11 0.0000E+00
  34 Famiglia SLU               3.4417E+01 3.5166E-12 0.0000E+00
  35 Famiglia SLU               1.2417E+02 1.2761E-11 0.0000E+00
  36 Famiglia SLU               -2.595E-05 4.0537E-14 0.0000E+00
  37 Famiglia SLU               6.4697E+01 6.6190E-12 0.0000E+00
  38 Famiglia SLU               5.5130E+00 5.1742E-13 0.0000E+00
  39 Famiglia SLU               9.5284E+01 9.7704E-12 0.0000E+00
  40 Famiglia SLU               -1.658E-05 9.9057E-15 0.0000E+00
  41 Famiglia SLU               1.3359E+02 1.3717E-11 0.0000E+00
  42 Famiglia SLU               1.6411E+02 1.6711E-11 0.0000E+00
  43 Famiglia SLU               3.4784E+01 3.6568E-12 0.0000E+00
  44 Famiglia SLU               1.2454E+02 1.2706E-11 0.0000E+00
  45 Famiglia SLU               1.2491E+02 1.2711E-11 0.0000E+00
  46 Famiglia SLU               1.5547E+02 1.5947E-11 0.0000E+00
  47 Famiglia SLU               2.6140E+01 2.7075E-12 0.0000E+00
  48 Famiglia SLU               1.1588E+02 1.1786E-11 0.0000E+00
  49 Famiglia SLU               -3.454E-05 5.9899E-14 0.0000E+00
  50 Famiglia SLU               5.6388E+01 5.6853E-12 0.0000E+00
  51 Famiglia SLU               -3.034E-06 -5.999E-14 0.0000E+00
  52 Famiglia SLU               8.6956E+01 9.0047E-12 0.0000E+00
   1 Famiglia SLV               -3.811E-04 -1.029E-14 0.0000E+00
   2 Famiglia SLV               -3.811E-04 -1.029E-14 0.0000E+00
   3 Famiglia SLV               2.3597E+02 2.4214E-11 0.0000E+00
   4 Famiglia SLV               2.3597E+02 2.4214E-11 0.0000E+00
   5 Famiglia SLV               -1.069E-03 -4.044E-14 0.0000E+00
   6 Famiglia SLV               -1.069E-03 -4.044E-14 0.0000E+00
   7 Famiglia SLV               9.8218E+02 1.0062E-10 0.0000E+00
   8 Famiglia SLV               9.8218E+02 1.0062E-10 0.0000E+00
   9 Famiglia SLV               -1.034E-03 5.3579E-14 0.0000E+00
  10 Famiglia SLV               -1.034E-03 5.3579E-14 0.0000E+00
  11 Famiglia SLV               1.0156E+03 1.0397E-10 0.0000E+00
  12 Famiglia SLV               1.0156E+03 1.0397E-10 0.0000E+00
  13 Famiglia SLV               -2.664E-04 -6.177E-14 0.0000E+00
  14 Famiglia SLV               -2.664E-04 -6.177E-14 0.0000E+00
  15 Famiglia SLV               3.4745E+02 3.5686E-11 0.0000E+00
  16 Famiglia SLV               3.4745E+02 3.5686E-11 0.0000E+00

Collegamento bullonato
dbull 12 mm  pinza  24 mm  interasse  36 mm  nbull   1
Verifica a taglio, rifollamento e block tearing per la bullonatura
taglio (2 sezioni resistenti):
FvEd =   507.8 daN <  FvRd =  3237.1 daN
comb.  11 fam. SLV N 1.0156E+03 daN  Mx 0.0000E+00 daN*cm  Ty 1.0397E-10 daN

Verifiche a rifollamento e di resistenza della forchetta: non effettuate

rifollamento sulla piastra:
FbEd =  1015.6 daN <  FbRd =  1577.8 daN
comb.  11 fam. SLV N 1.0156E+03 daN  Mx 0.0000E+00 daN*cm  Ty 1.0397E-10 daN
block tearing sulla piastra(p. 3.10.2 EN 1993-1-8:2005):
VEd =      0.0 daN <  VeffRd =   2150.7 daN
comb.  11 fam. SLV N 1.0156E+03 daN  Mx 0.0000E+00 daN*cm  Ty 1.0397E-10 daN

Verifica di resistenza della piastra
trazione:
R = 0.081 <  1   NEd =    1015.6 daN NuRd =    12530.4 daN
comb.  11 fam. SLV N 1.0156E+03 daN  Mx 0.0000E+00 daN*cm  Ty 1.0397E-10 daN

Verifica di resistenza delle saldature del fazzoletto
FwEd =   104.7 daN/cm <   FwRd =  1175.8 daN/cm
comb.  11 fam. SLV N 1.0156E+03 daN  Mx 0.0000E+00 daN*cm  Ty 1.0397E-10 daN
```

Piastra Asta 84 Nodo 65

```
Normativa di calcolo: D.M. 14-01-08(N.T.C.)
Tipo di collegamento: giunzione trave-trave
Profilo portante: HEB450 materiale S235
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Profilo portato: HEA160 materiale S235
Piastra materiale S235 spessore 10.0 mm
Bulloni M 12 classe 5.8
Bulloni sollecitati nelle sezioni filettate
Cordoni di saldatura della piastra sul profilo portante lato 20.0 mm

Fattori parziali di sicurezza: gammam0= 1.05 gammam2= 1.25

Legenda dei simboli utilizzati:
Asse X   asse locale baricentrico dell'asta portata parallelo alle ali del profilo
Asse Y   asse locale baricentrico dell'asta portata parallelo all'anima del profilo
N   sforzo normale
Ty   taglio secondo l'asse Y
FvEd   taglio massimo per i bulloni
FvRd   resistenza di calcolo di taglio per i bulloni
ftEd   trazione massima per i bulloni
ftRd   resistenza di calcolo a trazione per i bulloni
FbEd   forza massima di progetto a rifollamento
FbRd   resistenza di calcolo a rifollamento
VEd   azione agente per 'block tearing'
VeffRd   resistenza di calcolo a block tearing
R   rapporto di verifica tra azione agente e azione resistente
VEd   taglio massimo sui profili
VcRd   resistenza a taglio dei profili
MEd   momento massimo sui profili
McRd   resistenza flessionale dei profili
fd.rid   resistenza di calcolo ridotta per le saldature
FwEd   forza di progetto per unità di lunghezza della saldatura
FwRd   resistenza di progetto per unità di lunghezza della saldatura
fris   resistenza di progetto per unità di lunghezza della saldatura
sigma ort   tensione resitente della saldatura
ftk   resistenza a rottura per trazione della saldatura
beta   coefficiente di correlazione
gammaM2   coefficiente parziale di sicureza per collegamenti saldati
Sollecitazioni agenti (daN, cm)

Combinazione		N	Ty
1	Famiglia SLU	-5.000E+00	7.6000E+01
2	Famiglia SLU	-1.780E+02	-3.710E+02
3	Famiglia SLU	-1.490E+02	-6.410E+02
4	Famiglia SLU	-4.200E+01	-3.740E+02
5	Famiglia SLU	-6.700E+01	-6.420E+02
6	Famiglia SLU	-1.860E+02	-2.350E+02
7	Famiglia SLU	-1.570E+02	-5.050E+02
8	Famiglia SLU	-3.400E+01	-2.380E+02
9	Famiglia SLU	-7.000E+01	-5.060E+02
10	Famiglia SLU	-2.100E+01	3.4800E+02
11	Famiglia SLU	-1.250E+02	8.0000E+01
12	Famiglia SLU	-7.000E+00	7.8000E+01
13	Famiglia SLU	-9.600E+01	-1.900E+02
14	Famiglia SLU	-1.300E+01	2.0300E+02
15	Famiglia SLU	-1.860E+02	-2.430E+02
16	Famiglia SLU	-1.570E+02	-5.130E+02
17	Famiglia SLU	-3.500E+01	-2.470E+02
18	Famiglia SLU	-7.000E+01	-5.140E+02
19	Famiglia SLU	-1.940E+02	-1.070E+02
20	Famiglia SLU	-1.650E+02	-3.770E+02
21	Famiglia SLU	-2.600E+01	-1.110E+02
22	Famiglia SLU	-7.700E+01	-3.780E+02
23	Famiglia SLU	-2.900E+01	4.7500E+02
24	Famiglia SLU	-1.330E+02	2.0700E+02
25	Famiglia SLU	1.0000E+00	2.0500E+02
26	Famiglia SLU	-1.040E+02	-6.300E+01
27	Famiglia SLU	-7.000E+00	9.8000E+01
28	Famiglia SLU	-1.800E+02	-3.480E+02
29	Famiglia SLU	-1.510E+02	-6.180E+02
30	Famiglia SLU	-4.100E+01	-3.520E+02
31	Famiglia SLU	-6.700E+01	-6.190E+02
32	Famiglia SLU	-1.880E+02	-2.120E+02
33	Famiglia SLU	-1.590E+02	-4.820E+02
34	Famiglia SLU	-3.300E+01	-2.160E+02
35	Famiglia SLU	-7.100E+01	-4.830E+02
36	Famiglia SLU	-2.300E+01	3.7000E+02
37	Famiglia SLU	-1.270E+02	1.0200E+02
38	Famiglia SLU	-5.000E+00	1.0000E+02
39	Famiglia SLU	-9.800E+01	-1.670E+02
40	Famiglia SLU	-1.500E+01	2.2600E+02
41	Famiglia SLU	-1.880E+02	-2.200E+02
42	Famiglia SLU	-1.590E+02	-4.900E+02
43	Famiglia SLU	-3.300E+01	-2.240E+02
44	Famiglia SLU	-7.100E+01	-4.920E+02
45	Famiglia SLU	-1.960E+02	-8.500E+01
46	Famiglia SLU	-1.670E+02	-3.540E+02
47	Famiglia SLU	-2.500E+01	-8.800E+01
48	Famiglia SLU	-7.900E+01	-3.560E+02
49	Famiglia SLU	-3.100E+01	4.9800E+02
50	Famiglia SLU	-1.350E+02	2.3000E+02
51	Famiglia SLU	-2.000E+00	2.2800E+02
52	Famiglia SLU	-1.060E+02	-4.000E+01
1	Famiglia SLV	-2.100E+02	1.6100E+02
2	Famiglia SLV	-2.100E+02	1.6100E+02
3	Famiglia SLV	-3.320E+02	1.6100E+02
4	Famiglia SLV	-3.320E+02	1.6100E+02
5	Famiglia SLV	-8.840E+02	1.6100E+02
6	Famiglia SLV	-8.840E+02	1.6100E+02
7	Famiglia SLV	-9.230E+02	1.6100E+02
8	Famiglia SLV	-9.230E+02	1.6100E+02

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   9 Famiglia SLV               -9.150E+02 1.6100E+02
  10 Famiglia SLV               -9.150E+02 1.6100E+02
  11 Famiglia SLV               -8.910E+02 1.6100E+02
  12 Famiglia SLV               -8.910E+02 1.6100E+02
  13 Famiglia SLV               -3.150E+02 1.6100E+02
  14 Famiglia SLV               -3.150E+02 1.6100E+02
  15 Famiglia SLV               -2.270E+02 1.6100E+02
  16 Famiglia SLV               -2.270E+02 1.6100E+02

Verifiche di resistenza SLE (§ 7.3.7.1) omesse in quanto garantite da uno spettro SLD sempre minore di quello SLV

Verifica a taglio, a rifollamento e block tearing per la bullonatura del profilo portato
taglio:
FvEd =  1333.6 daN <  FvRd =  1686.0 daN
comb.   3  N -1.490E+02 daN  Ty -6.410E+02 daN
rifollamento per il profilo portato:
FbEd =  1333.6 daN <  FbRd =  3987.7 daN
comb.   3  N -1.490E+02 daN  Ty -6.410E+02 daN
block tearing anima(p. 3.10.2 EN 1993-1-8:2005):
VcRd =    642.0 daN <  VeffRd =  10371.8 daN
comb.   5  N -6.700E+01 daN  Ty -6.420E+02 daN

Verifica di resistenza sulle sezioni forate del profilo
taglio:
R = 0.037 <  1    VEd =  -642.0 daN VcRd = 17129.9 daN
comb.   5  N -6.700E+01 daN  Ty -6.420E+02 daN
flessione:
R = 0.021 <  1   MEd =   11454.0 daN*cm McRd =   541858.2 daN*cm
comb.  49  N -3.100E+01 daN  Ty 4.9800E+02 daN
flessione e sforzo normale:
R = 0.029 <  1   MEd =  -14743.0 daN*cm MnRd =   541858.2 daN*cm
comb.   3  N -1.490E+02 daN  Ty -6.410E+02 daN
compressione:
R = 0.011 <  1   NEd =    -923.0 daN NcRd =        0.0 daN
comb.   7 fam.   3(SLV) N -9.230E+02 daN  Ty 1.6100E+02 daN

Verifica di resistenza, a rifollamento e block tearing della piastra:
resistenza:
taglio:
R = 0.055 <  1    VEd =  -642.0 daN VcRd = 11629.5 daN
comb.   5  N -6.700E+01 daN  Ty -6.420E+02 daN
flessione:
R = 0.156 <  1   MEd =    5243.8 daN*cm McRd =    33683.3 daN*cm
comb.  51  N -2.000E+00 daN  Ty 2.2800E+02 daN
flessione e sforzo normale:
R = 0.446 <  1   MEd =  -14757.9 daN*cm MnRd =    33683.3 daN*cm
comb.   3  N -1.490E+02 daN  Ty -6.410E+02 daN
compressione:
R = 0.046 <  1   NEd =    -923.0 daN NcRd =    20142.9 daN
comb.   7 fam.   3(SLV) N -9.230E+02 daN  Ty 1.6100E+02 daN
rifollamento piastra:
FbEd =   1333.6 daN <  FbRd =   5538.5 daN
comb.   3  N -1.490E+02 daN  Ty -6.410E+02 daN
block tearing piastra(p. 3.10.2 EN 1993-1-8:2005):
VcRd =    642.0 daN <  VeffRd =  13151.4 daN
comb.   5  N -6.700E+01 daN  Ty -6.420E+02 daN

Verifica di resistenza delle saldature
a cordoni d'angolo:
FwEd =    41.0 daN <   FwRd =  2939.4 daN
comb.   7 fam.   3(SLV) N -9.230E+02 daN  Ty 1.6100E+02 daN
```

Squadretta Asta 74 Nodo 39

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Normativa di calcolo: D.M. 14-01-08(N.T.C.)
Tipo di collegamento: giunzione trave-trave
Profilo portante: HEB450 materiale S235
Profilo portato: HEA160 materiale S235
Squadrette  L70*8 materiale S275
Bulloni M 18 classe  5.8
Bulloni sollecitati nelle sezioni filettate

Fattori parziali di sicurezza: gammam0= 1.05  gammam2= 1.25

Legenda dei simboli utilizzati:
Asse X     asse locale baricentrico dell'asta portata parallelo alle ali del profilo
Asse Y     asse locale baricentrico dell'asta portata parallelo all'anima del profilo
N          sforzo normale
Tx         taglio secondo l'asse X
Ty         taglio secondo l'asse Y
FvEd       taglio massimo per i bulloni
FvRd       resistenza di calcolo di taglio per i bulloni
ftEd       trazione massima per i bulloni
ftRd       resistenza di calcolo a trazione per i bulloni
FbEd       forza massima di progetto a rifollamento
FbRd       resistenza di calcolo a rifollamento
VEd        azione agente per 'block tearing'
VeffRd     resistenza di calcolo a block tearing
R          rapporto di verifica tra azione agente e azione resistente
VEd        taglio massimo sui profili
VcRd       resistenza a taglio dei profili
MEd        momento massimo sui profili
McRd       resistenza flessionale dei profili
Sollecitazioni agenti (daN, cm)
```

Combinazione	N	Tx	Ty
1 Famiglia SLU	-3.000E+00	1.0000E+01	7.6000E+01
2 Famiglia SLU	-1.100E+01	-2.000E+00	-1.600E+01
3 Famiglia SLU	5.0000E+00	-2.000E+00	-7.200E+01
4 Famiglia SLU	-2.000E+00	1.0000E+01	-1.700E+01
5 Famiglia SLU	1.7000E+01	3.0000E+00	-7.200E+01
6 Famiglia SLU	-1.500E+01	1.0000E+00	1.2000E+01
7 Famiglia SLU	0.0000E+00	1.0000E+00	-4.400E+01
8 Famiglia SLU	-1.000E+00	1.3000E+01	1.1000E+01
9 Famiglia SLU	1.3000E+01	6.0000E+00	-4.400E+01
10 Famiglia SLU	-1.200E+01	1.7000E+01	1.3200E+02
11 Famiglia SLU	-1.600E+01	1.0000E+01	7.6000E+01
12 Famiglia SLU	0.0000E+00	1.7000E+01	7.6000E+01
13 Famiglia SLU	-1.000E+00	1.0000E+01	2.1000E+01
14 Famiglia SLU	-7.000E+00	1.3000E+01	1.0200E+02
15 Famiglia SLU	-1.500E+01	1.0000E+00	1.0000E+01
16 Famiglia SLU	0.0000E+00	1.0000E+00	-4.600E+01
17 Famiglia SLU	-1.000E+00	1.3000E+01	9.0000E+00
18 Famiglia SLU	1.4000E+01	6.0000E+00	-4.600E+01
19 Famiglia SLU	-1.900E+01	5.0000E+00	3.8000E+01
20 Famiglia SLU	-4.000E+00	5.0000E+00	-1.800E+01
21 Famiglia SLU	-1.000E+00	1.6000E+01	3.7000E+01
22 Famiglia SLU	9.0000E+00	9.0000E+00	-1.800E+01
23 Famiglia SLU	-1.700E+01	2.0000E+01	1.5800E+02
24 Famiglia SLU	-2.000E+01	1.3000E+01	1.0300E+02
25 Famiglia SLU	0.0000E+00	2.0000E+01	1.0200E+02
26 Famiglia SLU	-5.000E+00	1.3000E+01	4.7000E+01
27 Famiglia SLU	-4.000E+00	1.2000E+01	9.8000E+01
28 Famiglia SLU	-1.100E+01	1.0000E+00	6.0000E+00
29 Famiglia SLU	4.0000E+00	1.0000E+00	-4.900E+01
30 Famiglia SLU	-2.000E+00	1.2000E+01	6.0000E+00
31 Famiglia SLU	1.7000E+01	5.0000E+00	-4.900E+01
32 Famiglia SLU	-1.600E+01	4.0000E+00	3.4000E+01
33 Famiglia SLU	-1.000E+00	4.0000E+00	-2.100E+01
34 Famiglia SLU	-1.000E+00	1.6000E+01	3.4000E+01
35 Famiglia SLU	1.3000E+01	9.0000E+00	-2.100E+01
36 Famiglia SLU	-1.300E+01	1.9000E+01	1.5400E+02
37 Famiglia SLU	-1.700E+01	1.2000E+01	9.9000E+01
38 Famiglia SLU	0.0000E+00	1.9000E+01	9.9000E+01
39 Famiglia SLU	-2.000E+00	1.2000E+01	4.4000E+01
40 Famiglia SLU	-8.000E+00	1.6000E+01	1.2500E+02
41 Famiglia SLU	-1.600E+01	4.0000E+00	3.3000E+01
42 Famiglia SLU	0.0000E+00	4.0000E+00	-2.300E+01
43 Famiglia SLU	-1.000E+00	1.6000E+01	3.2000E+01
44 Famiglia SLU	1.3000E+01	9.0000E+00	-2.300E+01
45 Famiglia SLU	-2.000E+01	8.0000E+00	6.1000E+01
46 Famiglia SLU	-5.000E+00	8.0000E+00	5.0000E+00
47 Famiglia SLU	-1.000E+00	1.9000E+01	6.0000E+01
48 Famiglia SLU	8.0000E+00	1.2000E+01	5.0000E+00
49 Famiglia SLU	-1.800E+01	2.3000E+01	1.8100E+02
50 Famiglia SLU	-2.100E+01	1.6000E+01	1.2500E+02
51 Famiglia SLU	-1.000E+00	2.3000E+01	1.2500E+02
52 Famiglia SLU	-6.000E+00	1.6000E+01	7.0000E+01
1 Famiglia SLV	-8.000E+01	1.2000E+01	9.3000E+01
2 Famiglia SLV	-8.000E+01	1.2000E+01	9.3000E+01
3 Famiglia SLV	-7.500E+01	1.2000E+01	9.3000E+01
4 Famiglia SLV	-7.500E+01	1.2000E+01	9.3000E+01
5 Famiglia SLV	-2.700E+02	1.2000E+01	9.3000E+01
6 Famiglia SLV	-2.700E+02	1.2000E+01	9.3000E+01
7 Famiglia SLV	-1.530E+02	1.2000E+01	9.3000E+01
8 Famiglia SLV	-1.530E+02	1.2000E+01	9.3000E+01
9 Famiglia SLV	-2.700E+02	1.2000E+01	9.3000E+01
10 Famiglia SLV	-2.700E+02	1.2000E+01	9.3000E+01
11 Famiglia SLV	-1.370E+02	1.2000E+01	9.3000E+01
12 Famiglia SLV	-1.370E+02	1.2000E+01	9.3000E+01
13 Famiglia SLV	-8.200E+01	1.2000E+01	9.3000E+01
14 Famiglia SLV	-8.200E+01	1.2000E+01	9.3000E+01
15 Famiglia SLV	-2.000E+01	1.2000E+01	9.3000E+01
16 Famiglia SLV	-2.000E+01	1.2000E+01	9.3000E+01

Verifiche di resistenza SLE (§ 7.3.7.1) omesse in quanto garantite da uno spettro SLD sempre minore di quello SLV

Verifica a taglio, rifollamento e block tearing per la bullonatura del profilo portato
taglio:
FvEd = 142.8 daN < FvRd = 3840.0 daN
comb. 5 fam. 3(SLV) N -2.700E+02 daN Tx 1.2000E+01 daN Ty 9.3000E+01 daN
rifollamento per il profilo portato:
FbEd = 285.6 daN < FbRd = 4092.6 daN
comb. 5 fam. 3(SLV) N -2.700E+02 daN Tx 1.2000E+01 daN Ty 9.3000E+01 daN
block tearing anima(p. 3.10.2 EN 1993-1-8:2005):
VEd = 181.0 daN < VeffRd = 3360.6 daN
comb. 49 N -1.800E+01 daN Tx 2.3000E+01 daN Ty 1.8100E+02 daN

Verifica a taglio, taglio+trazione e rifollamento per la bullonatura del profilo portante
taglio:
FvEd = 91.2 daN < FvRd = 3840.0 daN
comb. 49 N -1.800E+01 daN Tx 2.3000E+01 daN Ty 1.8100E+02 daN
trazione + taglio per il profilo portante:
(FvEd/FvRd)+(FtEd/(1.4*FtRd)) = 0.026 < 1 FtEd = 19.1 FtRd = 6912.0
comb. 49 N -1.800E+01 daN Tx 2.3000E+01 daN Ty 1.8100E+02 daN
rifollamento per il profilo portante:
FbEd = 91.2 daN < FbRd = 7776.0 daN
comb. 49 N -1.800E+01 daN Tx 2.3000E+01 daN Ty 1.8100E+02 daN

Verifica a punzonamento del bullone
Bp,Sd/Bp,Rd = 0.001 < 1 Bp,Sd = 19.1 Bp,Rd = 16210.6

comb. 5 N 1.7000E+01 daN Tx 3.0000E+00 daN Ty -7.200E+01 daN Mx 0.0000E+00 daN*cm My 0.0000E+00 daN*cm Mt -1.300E+01 daN*cm

Verifica del profilo portato a filo spallatura e sui fori
flessione:
R = 0.015 < 1   MEd =   -338.4 daN*cm McRd =   22452.7 daN*cm
comb. 3 N 5.0000E+00 daN Tx -2.000E+00 daN Ty -7.200E+01 daN
flessione e sforzo normale:
R = 0.013 < 1   MEd =   286.7 daN*cm MnRd =   22452.7 daN*cm NEd =   -20.0 daN Nrd =   43105.7 daN
comb. 45 N -2.000E+01 daN Tx 8.0000E+00 daN Ty 6.1000E+01 daN
flessione deviata e sforzo normale:
R = 0.040 < 1   MEdx =   850.7 daN*cm MnRdx =   22452.7 daN*cm MEdy =   108.1 daN*cm MnRdy =   85974.1 daN*cm
comb. 49 N -1.800E+01 daN Tx 2.3000E+01 daN Ty 1.8100E+02 daN
compressione:
R = 0.006 < 1   NEd =   -270.0 daN NcRd =   43105.7 daN
comb. 5 fam. 3(SLV) N -2.700E+02 daN Tx 1.2000E+01 daN Ty 9.3000E+01 daN
trazione:
R = 0.000 < 1   NEd =   13.0 daN NuRd =   43105.7 daN
comb. 35 N 1.3000E+01 daN Tx 9.0000E+00 daN Ty -2.100E+01 daN
taglio:
R = 0.022 < 1   VEd =   181.0 daN VcRd = 8373.2 daN
comb. 49 N -1.800E+01 daN Ty 1.8100E+02 daN
sezione a filo spallatura:
flessione:
R = 0.038 < 1   MEd =   -1152.0 daN*cm McRd =   30525.1 daN*cm
comb. 3 N 5.0000E+00 daN Tx -2.000E+00 daN Ty -7.200E+01 daN
flessione e sforzo normale:
R = 0.013 < 1   MEd =   976.0 daN*cm MnRd =   30525.1 daN*cm
comb. 45 N -2.000E+01 daN Tx 8.0000E+00 daN Ty 6.1000E+01 daN
flessione deviata e sforzo normale:
R = 0.100 < 1   MEdx =   2896.0 daN*cm MnRdx =   30525.1 daN*cm MEdy =   368.0 daN*cm MnRdy =   85983.7 daN*cm
comb. 49 N -1.800E+01 daN Tx 2.3000E+01 daN Ty 1.8100E+02 daN
compressione:
R = 0.006 < 1   NEd =   -270.0 daN NcRd =   43105.7 daN
comb. 5 fam. 3(SLV) N -2.700E+02 daN Tx 1.2000E+01 daN Ty 9.3000E+01 daN
trazione:
R = 0.000 < 1   NEd =   17.0 daN NuRd =   43105.7 daN
comb. 5 N 1.7000E+01 daN Tx 3.0000E+00 daN Ty -7.200E+01 daN

Verifica di resistenza, rifollamento e block tearing delle squadrette sulle sezioni forate adiacenti al profilo portato:
resistenza:
taglio:
R = 0.010 < 1   VEd =   90.5 daN VcRd = 9072.6 daN
comb. 49 N -1.800E+01 daN Ty 1.8100E+02 daN
flessione deviata e sforzo normale:
R = 0.033 < 1   MEdx =   467.1 daN*cm MnRdx =   21207.7 daN*cm MEdy =   32.4 daN*cm MnRdy =   17181.0 daN*cm
comb. 5 fam. 3(SLV) N -2.700E+02 daN Tx 1.2000E+01 daN Ty 9.3000E+01 daN
compressione:
R = 0.009 < 1   NEd =   -135.0 daN NcRd =   15714.3 daN
comb. 5 fam. 3(SLV) N -2.700E+02 daN Tx 1.2000E+01 daN Ty 9.3000E+01 daN
trazione:
R = 0.001 < 1   NEd =   8.5 daN NuRd =   12693.6 daN
comb. 5 N 1.7000E+01 daN Tx 3.0000E+00 daN Ty -7.200E+01 daN
rifollamento squadretta:
FbEd =   142.8 daN < FbRd =   8147.4 daN
comb. 5 fam. 3(SLV) N -2.700E+02 daN Tx 1.2000E+01 daN Ty 9.3000E+01 daN
block tearing(p. 3.10.2 EN 1993-1-8:2005):
VEd =   90.5 daN < VeffRd =   6625.8 daN
comb. 49 N -1.800E+01 daN Tx 2.3000E+01 daN Ty 1.8100E+02 daN

Verifica di resistenza e a rifollamento delle squadrette sulle sezioni forate adiacenti al profilo portante:
resistenza:
taglio:
R = 0.015 < 1   VEd = -135.0 daN VcRd = 9072.6 daN
comb. 5 fam. 3(SLV) N -2.700E+02 daN Ty 9.3000E+01 daN
flessione:
R = 0.006 < 1   MEd =   131.2 daN*cm McRd =   21207.7 daN*cm
comb. 45 N -2.000E+01 daN Tx 8.0000E+00 daN Ty 6.1000E+01 daN
flessione e sforzo normale:
R = 0.019 < 1   MEd =   389.2 daN*cm MnRd =   21207.7 daN*cm NEd =   11.5 daN Nrd =   12693.6 daN
comb. 49 N -1.800E+01 daN Tx 2.3000E+01 daN Ty 1.8100E+02 daN
flessione deviata:
R = 0.021 < 1   MEdx =   -154.8 daN*cm MnRdx =   21207.7 daN*cm MEdy =   36.6 daN*cm MnRdy =   2684.5 daN*cm
comb. 5 N 1.7000E+01 daN Tx 3.0000E+00 daN Ty -7.200E+01 daN
compressione:
R = 0.001 < 1   NEd =   -11.5 daN NcRd =   15714.3 daN
comb. 49 N -1.800E+01 daN Tx 2.3000E+01 daN Ty 1.8100E+02 daN
trazione:
R = 0.001 < 1   NEd =   11.5 daN NuRd =   12693.6 daN
comb. 49 N -1.800E+01 daN Tx 2.3000E+01 daN Ty 1.8100E+02 daN
rifollamento squadretta:
FbEd =   91.2 daN < FbRd =   8147.4 daN
comb. 49 N -1.800E+01 daN Tx 2.3000E+01 daN Ty 1.8100E+02 daN

Squadretta Asta 80 Nodo 68
Normativa di calcolo: D.M. 14-01-08(N.T.C.)
Tipo di collegamento: giunzione trave-trave
Profilo portante: HEB450 materiale S235
Profilo portato: HEA160 materiale S235
Squadrette L70*8 materiale S275
Bulloni M 18 classe 8.8
Bulloni sollecitati nelle sezioni filettate

Fattori parziali di sicurezza: gammam0= 1.05 gammam2= 1.25

Legenda dei simboli utilizzati:
Asse X asse locale baricentrico dell'asta portata parallelo alle ali del profilo
Asse Y asse locale baricentrico dell'asta portata parallelo all'anima del profilo
N sforzo normale
Tx taglio secondo l'asse X
Ty taglio secondo l'asse Y
FvEd taglio massimo per i bulloni
FvRd resistenza di calcolo di taglio per i bulloni
ftEd trazione massima per i bulloni
ftRd resistenza di calcolo a trazione per i bulloni
FbEd forza massima di progetto a rifollamento
FbRd resistenza di calcolo a rifollamento
VEd azione agente per 'block tearing'
VeffRd resistenza di calcolo a block tearing
R rapporto di verifica tra azione agente e azione resistente
VEd taglio massimo sui profili
VcRd resistenza a taglio dei profili
MEd momento massimo sui profili
McRd resistenza flessionale dei profili
Sollecitazioni agenti (daN, cm)

Combinazione	N	Tx	Ty
1 Famiglia SLU	-5.000E+00	-1.000E+01	7.6000E+01
2 Famiglia SLU	-8.900E+01	4.7000E+01	-3.710E+02
3 Famiglia SLU	-7.900E+01	4.7000E+01	-6.410E+02
4 Famiglia SLU	-4.200E+01	-1.000E+01	-3.740E+02
5 Famiglia SLU	-7.000E+01	2.4000E+01	-6.420E+02
6 Famiglia SLU	-9.600E+01	3.0000E+01	-2.350E+02
7 Famiglia SLU	-7.900E+01	3.0000E+01	-5.050E+02
8 Famiglia SLU	-3.400E+01	-2.700E+01	-2.380E+02
9 Famiglia SLU	-6.200E+01	7.0000E+00	-5.060E+02
10 Famiglia SLU	-2.100E+01	-4.400E+01	3.4800E+02
11 Famiglia SLU	-7.100E+01	-1.000E+01	8.0000E+01
12 Famiglia SLU	-7.000E+00	-4.400E+01	7.8000E+01
13 Famiglia SLU	-4.700E+01	-1.000E+01	-1.900E+02
14 Famiglia SLU	-1.300E+01	-2.600E+01	2.0300E+02
15 Famiglia SLU	-9.600E+01	3.1000E+01	-2.430E+02
16 Famiglia SLU	-7.900E+01	3.1000E+01	-5.130E+02
17 Famiglia SLU	-3.400E+01	-2.600E+01	-2.470E+02
18 Famiglia SLU	-6.200E+01	8.0000E+00	-5.140E+02
19 Famiglia SLU	-1.040E+02	1.3000E+01	-1.070E+02
20 Famiglia SLU	-7.900E+01	1.3000E+01	-3.770E+02
21 Famiglia SLU	-2.600E+01	-4.300E+01	-1.110E+02
22 Famiglia SLU	-5.400E+01	-9.000E+00	-3.780E+02
23 Famiglia SLU	-2.900E+01	-6.000E+01	4.7500E+02
24 Famiglia SLU	-7.900E+01	-2.600E+01	2.0700E+02
25 Famiglia SLU	1.0000E+00	-6.000E+01	2.0500E+02
26 Famiglia SLU	-5.100E+01	-2.600E+01	-6.300E+01
27 Famiglia SLU	-7.000E+00	-1.200E+01	9.8000E+01
28 Famiglia SLU	-9.000E+01	4.4000E+01	-3.480E+02
29 Famiglia SLU	-7.900E+01	4.4000E+01	-6.180E+02
30 Famiglia SLU	-4.000E+01	-1.200E+01	-3.520E+02
31 Famiglia SLU	-6.800E+01	2.1000E+01	-6.190E+02
32 Famiglia SLU	-9.800E+01	2.7000E+01	-2.120E+02
33 Famiglia SLU	-7.900E+01	2.7000E+01	-4.820E+02
34 Famiglia SLU	-3.200E+01	-2.900E+01	-2.160E+02
35 Famiglia SLU	-6.000E+01	4.0000E+00	-4.830E+02
36 Famiglia SLU	-2.300E+01	-4.700E+01	3.7000E+02
37 Famiglia SLU	-7.300E+01	-1.300E+01	1.0200E+02
38 Famiglia SLU	-5.000E+00	-4.700E+01	1.0000E+02
39 Famiglia SLU	-4.700E+01	-1.300E+01	-1.670E+02
40 Famiglia SLU	-1.500E+01	-2.800E+01	2.2600E+02
41 Famiglia SLU	-9.800E+01	2.8000E+01	-2.200E+02
42 Famiglia SLU	-7.900E+01	2.8000E+01	-4.900E+02
43 Famiglia SLU	-3.300E+01	-2.800E+01	-2.240E+02
44 Famiglia SLU	-6.100E+01	5.0000E+00	-4.920E+02
45 Famiglia SLU	-1.060E+02	1.1000E+01	-8.500E+01
46 Famiglia SLU	-7.900E+01	1.1000E+01	-3.540E+02
47 Famiglia SLU	-2.500E+01	-4.600E+01	-8.800E+01
48 Famiglia SLU	-5.300E+01	-1.200E+01	-3.560E+02
49 Famiglia SLU	-3.000E+01	-6.300E+01	4.9800E+02
50 Famiglia SLU	-8.000E+01	-2.900E+01	2.3000E+02
51 Famiglia SLU	-2.000E+00	-6.300E+01	2.2800E+02
52 Famiglia SLU	-5.200E+01	-2.900E+01	-4.000E+01
1 Famiglia SLV	-1.190E+02	-2.000E+01	1.6100E+02
2 Famiglia SLV	-1.190E+02	-2.000E+01	1.6100E+02
3 Famiglia SLV	-2.480E+02	-2.000E+01	1.6100E+02
4 Famiglia SLV	-2.480E+02	-2.000E+01	1.6100E+02
5 Famiglia SLV	-5.830E+02	-2.000E+01	1.6100E+02
6 Famiglia SLV	-5.830E+02	-2.000E+01	1.6100E+02
7 Famiglia SLV	-6.410E+02	-2.000E+01	1.6100E+02
8 Famiglia SLV	-6.410E+02	-2.000E+01	1.6100E+02
9 Famiglia SLV	-6.140E+02	-2.000E+01	1.6100E+02
10 Famiglia SLV	-6.140E+02	-2.000E+01	1.6100E+02
11 Famiglia SLV	-6.090E+02	-2.000E+01	1.6100E+02
12 Famiglia SLV	-6.090E+02	-2.000E+01	1.6100E+02
13 Famiglia SLV	-2.250E+02	-2.000E+01	1.6100E+02
14 Famiglia SLV	-2.250E+02	-2.000E+01	1.6100E+02
15 Famiglia SLV	-1.420E+02	-2.000E+01	1.6100E+02
16 Famiglia SLV	-1.420E+02	-2.000E+01	1.6100E+02

Verifiche di resistenza SLE (§ 7.3.7.1) omesse in quanto garantite da uno spettro SLD sempre minore di quello SLV

Verifica a taglio, rifollamento e block tearing per la bullonatura del profilo portato
taglio:
FvEd = 330.5 daN < FvRd = 7372.8 daN

comb. 7 fam. 3(SLV) N -6.410E+02 daN Tx -2.000E+01 daN Ty 1.6100E+02 daN
rifollamento per il profilo portato:
FbEd = 660.9 daN < FbRd = 4092.6 daN
comb. 7 fam. 3(SLV) N -6.410E+02 daN Tx -2.000E+01 daN Ty 1.6100E+02 daN
block tearing anima(p. 3.10.2 EN 1993-1-8:2005):
VEd = 498.0 daN < VeffRd = 3360.6 daN
comb. 49 N -3.000E+01 daN Tx -6.300E+01 daN Ty 4.9800E+02 daN

Verifica a taglio, taglio+trazione e rifollamento per la bullonatura del profilo portante
taglio:
FvEd = 321.4 daN < FvRd = 7372.8 daN
comb. 3 N -7.900E+01 daN Tx 4.7000E+01 daN Ty -6.410E+02 daN
trazione + taglio per il profilo portante:
(FvEd/FvRd)+(FtEd/(1.4*FtRd)) = 0.042 < 1 FtEd = 1.1 FtRd = 11059.2
comb. 29 N -7.900E+01 daN Tx 4.4000E+01 daN Ty -6.180E+02 daN
rifollamento per il profilo portante:
FbEd = 321.4 daN < FbRd = 7776.0 daN
comb. 3 N -7.900E+01 daN Tx 4.7000E+01 daN Ty -6.410E+02 daN

Verifica a punzonamento del bullone
Bp,Sd/Bp,Rd = 0.000 < 1 Bp,Sd = 1.1 Bp,Rd = 16210.6
comb. 25 N 1.0000E+00 daN Tx -6.000E+01 daN Ty 2.0500E+02 daN Mx 0.0000E+00 daN*cm My 0.0000E+00 daN*cm Mt 0.0000E+00 daN*cm

Verifica del profilo portato a filo spallatura e sui fori
flessione e sforzo normale:
R = 0.109 < 1 MEd = -2415.8 daN*cm MnRd = 22452.7 daN*cm NEd = -62.0 daN Nrd = 43105.7 daN
comb. 18 N -6.200E+01 daN Tx 8.0000E+00 daN Ty -5.140E+02 daN
flessione deviata e sforzo normale:
R = 0.139 < 1 MEdx = -3012.7 daN*cm MnRdx = 22452.7 daN*cm MEdy = 220.9 daN*cm MnRdy = 85974.1 daN*cm
comb. 3 N -7.900E+01 daN Tx 4.7000E+01 daN Ty -6.410E+02 daN
compressione:
R = 0.015 < 1 NEd = -641.0 daN NcRd = 43105.7 daN
comb. 7 fam. 3(SLV) N -6.410E+02 daN Tx -2.000E+01 daN Ty 1.6100E+02 daN
trazione:
R = 0.000 < 1 NEd = 1.0 daN NuRd = 43105.7 daN
comb. 25 N 1.0000E+00 daN Tx -6.000E+01 daN Ty 2.0500E+02 daN
taglio:
R = 0.077 < 1 VEd = -642.0 daN VcRd = 8373.2 daN
comb. 5 N -7.000E+01 daN Ty -6.420E+02 daN
sezione a filo spallatura:
flessione e sforzo normale:
R = 0.109 < 1 MEd = -8224.0 daN*cm MnRd = 30525.1 daN*cm
comb. 18 N -6.200E+01 daN Tx 8.0000E+00 daN Ty -5.140E+02 daN
flessione deviata e sforzo normale:
R = 0.347 < 1 MEdx = -10256.0 daN*cm MnRdx = 30525.1 daN*cm MEdy = 752.0 daN*cm MnRdy = 85983.7 daN*cm
comb. 3 N -7.900E+01 daN Tx 4.7000E+01 daN Ty -6.410E+02 daN
compressione:
R = 0.015 < 1 NEd = -641.0 daN NcRd = 43105.7 daN
comb. 7 fam. 3(SLV) N -6.410E+02 daN Tx -2.000E+01 daN Ty 1.6100E+02 daN
trazione:
R = 0.000 < 1 NEd = 1.0 daN NuRd = 43105.7 daN
comb. 25 N 1.0000E+00 daN Tx -6.000E+01 daN Ty 2.0500E+02 daN

Verifica di resistenza, rifollamento e block tearing delle squadrette sulle sezioni forate adiacenti al profilo portato:
resistenza:
taglio:
R = 0.035 < 1 VEd = -321.0 daN VcRd = 9072.6 daN
comb. 5 N -7.000E+01 daN Ty -6.420E+02 daN
flessione deviata e sforzo normale:
R = 0.089 < 1 MEdx = -1667.5 daN*cm MnRdx = 21207.7 daN*cm MEdy = 126.9 daN*cm MnRdy = 17181.0 daN*cm
comb. 3 N -7.900E+01 daN Tx 4.7000E+01 daN Ty -6.410E+02 daN
compressione:
R = 0.020 < 1 NEd = -320.5 daN NcRd = 15714.3 daN
comb. 7 fam. 3(SLV) N -6.410E+02 daN Tx -2.000E+01 daN Ty 1.6100E+02 daN
trazione:
R = 0.000 < 1 NEd = 0.5 daN NuRd = 12693.6 daN
comb. 25 N 1.0000E+00 daN Tx -6.000E+01 daN Ty 2.0500E+02 daN
rifollamento squadretta:
FbEd = 330.5 daN < FbRd = 8147.4 daN
comb. 7 fam. 3(SLV) N -6.410E+02 daN Tx -2.000E+01 daN Ty 1.6100E+02 daN
block tearing(p. 3.10.2 EN 1993-1-8:2005):
VEd = 321.0 daN < VeffRd = 6625.8 daN
comb. 5 N -7.000E+01 daN Tx 2.4000E+01 daN Ty -6.420E+02 daN

Verifica di resistenza e a rifollamento delle squadrette sulle sezioni forate adiacenti al profilo portante:
resistenza:
taglio:
R = 0.035 < 1 VEd = -321.0 daN VcRd = 9072.6 daN
comb. 5 N -7.000E+01 daN Ty -6.420E+02 daN
flessione:
R = 0.052 < 1 MEd = -1105.1 daN*cm McRd = 21207.7 daN*cm
comb. 18 N -6.200E+01 daN Tx 8.0000E+00 daN Ty -5.140E+02 daN
flessione e sforzo normale:
R = 0.067 < 1 MEd = -1378.2 daN*cm MnRd = 21207.7 daN*cm NEd = 23.5 daN Nrd = 12693.6 daN
comb. 3 N -7.900E+01 daN Tx 4.7000E+01 daN Ty -6.410E+02 daN
flessione deviata:
R = 0.024 < 1 MEdx = 440.8 daN*cm MnRdx = 21207.7 daN*cm MEdy = 2.2 daN*cm MnRdy = 2684.5 daN*cm
comb. 25 N 1.0000E+00 daN Tx -6.000E+01 daN Ty 2.0500E+02 daN
compressione:
R = 0.002 < 1 NEd = -31.5 daN NcRd = 15714.3 daN
comb. 49 N -3.000E+01 daN Tx -6.300E+01 daN Ty 4.9800E+02 daN
trazione:
R = 0.002 < 1 NEd = 31.5 daN NuRd = 12693.6 daN
comb. 49 N -3.000E+01 daN Tx -6.300E+01 daN Ty 4.9800E+02 daN

rifollamento squadretta:
FbEd =   321.4 daN < FbRd =   8147.4 daN
comb.   3 N -7.900E+01 daN Tx 4.7000E+01 daN Ty -6.410E+02 daN

Squadretta Asta 81 Nodo 69

Normativa di calcolo: D.M. 14-01-08(N.T.C.)
Tipo di collegamento: giunzione trave-trave
Profilo portante: HEB450 materiale S235
Profilo portato: HEA160 materiale S235
Squadrette L70*8 materiale S235
Bulloni M 18 classe 8.8
Bulloni sollecitati nelle sezioni filettate

Fattori parziali di sicurezza: gammam0= 1.05 gammam2= 1.25

Legenda dei simboli utilizzati:

Asse X	asse locale baricentrico dell'asta portata parallelo alle ali del profilo
Asse Y	asse locale baricentrico dell'asta portata parallelo all'anima del profilo
N	sforzo normale
Tx	taglio secondo l'asse X
Ty	taglio secondo l'asse Y
FvEd	taglio massimo per i bulloni
FvRd	resistenza di calcolo di taglio per i bulloni
ftEd	trazione massima per i bulloni
ftRd	resistenza di calcolo a trazione per i bulloni
FbEd	forza massima di progetto a rifollamento
FbRd	resistenza di calcolo a rifollamento
VEd	azione agente per 'block tearing'
VeffRd	resistenza di calcolo a block tearing
R	rapporto di verifica tra azione agente e azione resistente
VEd	taglio massimo sui profili
VcRd	resistenza a taglio dei profili
MEd	momento massimo sui profili
McRd	resistenza flessionale dei profili

Sollecitazioni agenti (daN, cm)

Combinazione	N	Tx	Ty
1 Famiglia SLU	-5.000E+00	-1.000E+01	7.6000E+01
2 Famiglia SLU	-9.200E+01	4.7000E+01	-3.710E+02
3 Famiglia SLU	-1.210E+02	4.7000E+01	-6.410E+02
4 Famiglia SLU	-4.200E+01	-1.000E+01	-3.740E+02
5 Famiglia SLU	-1.000E+02	2.4000E+01	-6.420E+02
6 Famiglia SLU	-8.400E+01	3.0000E+01	-2.350E+02
7 Famiglia SLU	-1.130E+02	3.0000E+01	-5.050E+02
8 Famiglia SLU	-3.400E+01	-2.700E+01	-2.380E+02
9 Famiglia SLU	-9.200E+01	7.0000E+00	-5.060E+02
10 Famiglia SLU	-2.100E+01	-4.400E+01	3.4800E+02
11 Famiglia SLU	-3.700E+01	-1.000E+01	8.0000E+01
12 Famiglia SLU	-7.000E+00	-4.400E+01	7.8000E+01
13 Famiglia SLU	-6.600E+01	-1.000E+01	-1.900E+02
14 Famiglia SLU	-1.300E+01	-2.600E+01	2.0300E+02
15 Famiglia SLU	-8.400E+01	3.1000E+01	-2.430E+02
16 Famiglia SLU	-1.130E+02	3.1000E+01	-5.130E+02
17 Famiglia SLU	-3.400E+01	-2.600E+01	-2.470E+02
18 Famiglia SLU	-9.300E+01	8.0000E+00	-5.140E+02
19 Famiglia SLU	-7.600E+01	1.3000E+01	-1.070E+02
20 Famiglia SLU	-1.050E+02	1.3000E+01	-3.770E+02
21 Famiglia SLU	-2.600E+01	-4.300E+01	-1.110E+02
22 Famiglia SLU	-8.500E+01	-9.000E+00	-3.780E+02
23 Famiglia SLU	-2.900E+01	-6.000E+01	4.7500E+02
24 Famiglia SLU	-2.900E+01	-2.600E+01	2.0700E+02
25 Famiglia SLU	1.0000E+00	-6.000E+01	2.0500E+02
26 Famiglia SLU	-5.800E+01	-2.600E+01	-6.300E+01
27 Famiglia SLU	-7.000E+00	-1.200E+01	9.8000E+01
28 Famiglia SLU	-9.000E+01	4.4000E+01	-3.480E+02
29 Famiglia SLU	-1.190E+02	4.4000E+01	-6.180E+02
30 Famiglia SLU	-4.000E+01	-1.200E+01	-3.520E+02
31 Famiglia SLU	-9.800E+01	2.1000E+01	-6.190E+02
32 Famiglia SLU	-8.200E+01	2.7000E+01	-2.120E+02
33 Famiglia SLU	-1.110E+02	2.7000E+01	-4.820E+02
34 Famiglia SLU	-3.200E+01	-2.900E+01	-2.160E+02
35 Famiglia SLU	-9.100E+01	4.0000E+00	-4.830E+02
36 Famiglia SLU	-2.300E+01	-4.700E+01	3.7000E+02
37 Famiglia SLU	-3.500E+01	-1.300E+01	1.0200E+02
38 Famiglia SLU	-5.000E+00	-4.700E+01	1.0000E+02
39 Famiglia SLU	-6.400E+01	-1.300E+01	-1.670E+02
40 Famiglia SLU	-1.500E+01	-2.800E+01	2.2600E+02
41 Famiglia SLU	-8.300E+01	2.8000E+01	-2.200E+02
42 Famiglia SLU	-1.120E+02	2.8000E+01	-4.900E+02
43 Famiglia SLU	-3.300E+01	-2.800E+01	-2.240E+02
44 Famiglia SLU	-9.100E+01	5.0000E+00	-4.920E+02
45 Famiglia SLU	-7.500E+01	1.1000E+01	-8.500E+01
46 Famiglia SLU	-1.040E+02	1.1000E+01	-3.540E+02
47 Famiglia SLU	-2.500E+01	-4.600E+01	-8.800E+01
48 Famiglia SLU	-8.300E+01	-1.200E+01	-3.560E+02
49 Famiglia SLU	-3.000E+01	-6.300E+01	4.9800E+02
50 Famiglia SLU	-2.800E+01	-2.900E+01	2.3000E+02
51 Famiglia SLU	-2.000E+00	-6.300E+01	2.2800E+02
52 Famiglia SLU	-5.600E+01	-2.900E+01	-4.000E+01
1 Famiglia SLV	-2.480E+02	-2.000E+01	1.6100E+02
2 Famiglia SLV	-2.480E+02	-2.000E+01	1.6100E+02
3 Famiglia SLV	-1.190E+02	-2.000E+01	1.6100E+02
4 Famiglia SLV	-1.190E+02	-2.000E+01	1.6100E+02
5 Famiglia SLV	-6.410E+02	-2.000E+01	1.6100E+02
6 Famiglia SLV	-6.410E+02	-2.000E+01	1.6100E+02
7 Famiglia SLV	-5.830E+02	-2.000E+01	1.6100E+02

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   8 Famiglia SLV               -5.830E+02 -2.000E+01 1.6100E+02
   9 Famiglia SLV               -6.090E+02 -2.000E+01 1.6100E+02
  10 Famiglia SLV               -6.090E+02 -2.000E+01 1.6100E+02
  11 Famiglia SLV               -6.140E+02 -2.000E+01 1.6100E+02
  12 Famiglia SLV               -6.140E+02 -2.000E+01 1.6100E+02
  13 Famiglia SLV               -1.420E+02 -2.000E+01 1.6100E+02
  14 Famiglia SLV               -1.420E+02 -2.000E+01 1.6100E+02
  15 Famiglia SLV               -2.250E+02 -2.000E+01 1.6100E+02
  16 Famiglia SLV               -2.250E+02 -2.000E+01 1.6100E+02

Verifiche di resistenza SLE (§ 7.3.7.1) omesse in quanto garantite da uno spettro SLD sempre minore di quello SLV

Verifica a taglio, rifollamento e block tearing per la bullonatura del profilo portato
taglio:
FvEd =   330.5 daN <  FvRd =  7372.8 daN
comb.   5 fam.   3(SLV) N -6.410E+02 daN  Tx -2.000E+01 daN  Ty 1.6100E+02 daN
rifollamento per il profilo portato:
FbEd =   660.9 daN <  FbRd =  4092.6 daN
comb.   5 fam.   3(SLV) N -6.410E+02 daN  Tx -2.000E+01 daN  Ty 1.6100E+02 daN
block tearing anima(p. 3.10.2 EN 1993-1-8:2005):
VEd =    498.0 daN <  VeffRd =   3360.6 daN
comb.  49  N -3.000E+01 daN  Tx -6.300E+01 daN  Ty 4.9800E+02 daN

Verifica a taglio, taglio+trazione e rifollamento per la bullonatura del profilo portante
taglio:
FvEd =   321.4 daN <  FvRd =  7372.8 daN
comb.   3  N -1.210E+02 daN  Tx 4.7000E+01 daN  Ty -6.410E+02 daN
trazione + taglio per il profilo portante:
(FvEd/FvRd)+(FtEd/(1.4*FtRd)) =  0.042 <  1 FtEd =      1.1 FtRd =  11059.2
comb.  29  N -1.190E+02 daN  Tx 4.4000E+01 daN  Ty -6.180E+02 daN
rifollamento per il profilo portante:
FbEd =   321.4 daN <  FbRd =  7776.0 daN
comb.   3  N -1.210E+02 daN  Tx 4.7000E+01 daN  Ty -6.410E+02 daN

Verifica a punzonamento del bullone
Bp,Sd/Bp,Rd =  0.000 <  1 Bp,Sd =      1.1 Bp,Rd =  13571.7
comb.  25 N 1.0000E+00 daN Tx -6.000E+01 daN Ty 2.0500E+02 daN Mx 0.0000E+00 daN*cm My 0.0000E+00 daN*cm Mt 0.0000E+00 daN*cm

Verifica del profilo portato a filo spallatura e sui fori
flessione e sforzo normale:
R = 0.110 <  1   MEd =   -2415.8 daN*cm MnRd =    22452.7 daN*cm NEd =       -93.0 daN Nrd =     43105.7 daN
comb.  18  N -9.300E+01 daN  Tx 8.0000E+00 daN  Ty -5.140E+02 daN
flessione deviata e sforzo normale:
R = 0.140 <  1   MEdx =   -3012.7 daN*cm MnRdx =    22452.7 daN*cm MEdy =     220.9 daN*cm MnRdy =    85974.1 daN*cm
comb.   3  N -1.210E+02 daN  Tx 4.7000E+01 daN  Ty -6.410E+02 daN
compressione:
R = 0.015 <  1   NEd =    -641.0 daN NcRd =    43105.7 daN
comb.   5 fam.   3(SLV) N -6.410E+02 daN  Tx -2.000E+01 daN  Ty 1.6100E+02 daN
trazione:
R = 0.000 <  1   NEd =       1.0 daN NuRd =    43105.7 daN
comb.  25  N 1.0000E+00 daN  Tx -6.000E+01 daN  Ty 2.0500E+02 daN
taglio:
R = 0.077 <  1    VEd =  -642.0 daN VcRd =  8373.2 daN
comb.   5  N -1.000E+02 daN  Ty -6.420E+02 daN
sezione a filo spallatura:
flessione e sforzo normale:
R = 0.110 <  1   MEd =   -8224.0 daN*cm MnRd =    30525.1 daN*cm
comb.  18  N -9.300E+01 daN  Tx 8.0000E+00 daN  Ty -5.140E+02 daN
flessione deviata e sforzo normale:
R = 0.348 <  1   MEdx =  -10256.0 daN*cm MnRdx =    30525.1 daN*cm MEdy =     752.0 daN*cm MnRdy =    85983.7 daN*cm
comb.   3  N -1.210E+02 daN  Tx 4.7000E+01 daN  Ty -6.410E+02 daN
compressione:
R = 0.015 <  1   NEd =    -641.0 daN NcRd =    43105.7 daN
comb.   5 fam.   3(SLV) N -6.410E+02 daN  Tx -2.000E+01 daN  Ty 1.6100E+02 daN
trazione:
R = 0.000 <  1   NEd =       1.0 daN NuRd =    43105.7 daN
comb.  25  N 1.0000E+00 daN  Tx -6.000E+01 daN  Ty 2.0500E+02 daN

Verifica di resistenza, rifollamento e block tearing delle squadrette sulle sezioni forate adiacenti al profilo portato:
resistenza:
taglio:
R = 0.041 <  1    VEd =  -321.0 daN VcRd =  7753.0 daN
comb.   5  N -1.000E+02 daN  Ty -6.420E+02 daN
flessione deviata e sforzo normale:
R = 0.103 <  1   MEdx =   -1633.9 daN*cm MnRdx =    18123.0 daN*cm MEdy =     126.9 daN*cm MnRdy =    14681.9 daN*cm
comb.   3  N -1.210E+02 daN  Tx 4.7000E+01 daN  Ty -6.410E+02 daN
compressione:
R = 0.024 <  1   NEd =    -320.5 daN NcRd =    13428.6 daN
comb.   5 fam.   3(SLV) N -6.410E+02 daN  Tx -2.000E+01 daN  Ty 1.6100E+02 daN
trazione:
R = 0.000 <  1   NEd =       0.5 daN NuRd =    10627.2 daN
comb.  25  N 1.0000E+00 daN  Tx -6.000E+01 daN  Ty 2.0500E+02 daN
rifollamento squadretta:
FbEd =    330.5 daN <  FbRd =   6821.1 daN
comb.   5 fam.   3(SLV) N -6.410E+02 daN  Tx -2.000E+01 daN  Ty 1.6100E+02 daN
block tearing(p. 3.10.2 EN 1993-1-8:2005):
VEd =    321.0 daN <  VeffRd =   5600.9 daN
comb.   5  N -1.000E+02 daN  Tx 2.4000E+01 daN  Ty -6.420E+02 daN

Verifica di resistenza e a rifollamento delle squadrette sulle sezioni forate adiacenti al profilo portante:
resistenza:
taglio:
R = 0.041 <  1    VEd =  -321.0 daN VcRd =  7753.0 daN
comb.   5  N -1.000E+02 daN  Ty -6.420E+02 daN
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flessione:
R = 0.061 < 1   MEd =   -1105.1 daN*cm McRd =   18123.0 daN*cm
comb. 18 N -9.300E+01 daN Tx 8.0000E+00 daN Ty -5.140E+02 daN
flessione e sforzo normale:
R = 0.078 < 1   MEd =   -1378.2 daN*cm MnRd =   18123.0 daN*cm NEd =   23.5 daN Nrd =   10627.2 daN
comb.   3 N -1.210E+02 daN Tx 4.7000E+01 daN Ty -6.410E+02 daN
flessione deviata:
R = 0.028 < 1   MEdx =   440.8 daN*cm MnRdx =   18123.0 daN*cm MEdy =   2.2 daN*cm MnRdy =   2294.0 daN*cm
comb. 25 N 1.0000E+00 daN Tx -6.000E+01 daN Ty 2.0500E+02 daN
compressione:
R = 0.002 < 1   NEd =   -31.5 daN NcRd =   13428.6 daN
comb. 49 N -3.000E+01 daN Tx -6.300E+01 daN Ty 4.9800E+02 daN
trazione:
R = 0.003 < 1   NEd =   31.5 daN NuRd =   10627.2 daN
comb. 49 N -3.000E+01 daN Tx -6.300E+01 daN Ty 4.9800E+02 daN
rifollamento squadretta:
FbEd =   321.4 daN < FbRd =   6821.1 daN
comb.   3 N -1.210E+02 daN Tx 4.7000E+01 daN Ty -6.410E+02 daN

Squadretta Asta 84 Nodo 60

Normativa di calcolo: D.M. 14-01-08(N.T.C.)
Tipo di collegamento: giunzione trave-trave
Profilo portante: HEB450 materiale S235
Profilo portato: HEA160 materiale S235
Squadrette L70*8 materiale S275
Bulloni M 18 classe 8.8
Bulloni sollecitati nelle sezioni filettate

Fattori parziali di sicurezza: gammam0= 1.05 gammam2= 1.25

Legenda dei simboli utilizzati:
Asse X   asse locale baricentrico dell'asta portata parallelo alle ali del profilo
Asse Y   asse locale baricentrico dell'asta portata parallelo all'anima del profilo
N   sforzo normale
Tx   taglio secondo l'asse X
Ty   taglio secondo l'asse Y
FvEd   taglio massimo per i bulloni
FvRd   resistenza di calcolo di taglio per i bulloni
ftEd   trazione massima per i bulloni
ftRd   resistenza di calcolo a trazione per i bulloni
FbEd   forza massima di progetto a rifollamento
FbRd   resistenza di calcolo a rifollamento
VEd   azione agente per 'block tearing'
VeffRd   resistenza di calcolo a block tearing
R   rapporto di verifica tra azione agente e azione resistente
VEd   taglio massimo sui profili
VcRd   resistenza a taglio dei profili
MEd   momento massimo sui profili
McRd   resistenza flessionale dei profili
Sollecitazioni agenti (daN, cm)

Combinazione	N	Tx	Ty
1 Famiglia SLU	-5.000E+00	1.0000E+01	7.6000E+01
2 Famiglia SLU	-1.780E+02	-4.700E+01	-3.710E+02
3 Famiglia SLU	-1.490E+02	-4.700E+01	-6.410E+02
4 Famiglia SLU	-4.200E+01	1.0000E+01	-3.740E+02
5 Famiglia SLU	-6.700E+01	-2.400E+01	-6.420E+02
6 Famiglia SLU	-1.860E+02	-3.000E+01	-2.350E+02
7 Famiglia SLU	-1.570E+02	-3.000E+01	-5.050E+02
8 Famiglia SLU	-3.400E+01	2.7000E+01	-2.380E+02
9 Famiglia SLU	-7.000E+01	-7.000E+00	-5.060E+02
10 Famiglia SLU	-2.100E+01	4.4000E+01	3.4800E+02
11 Famiglia SLU	-1.250E+02	1.0000E+01	8.0000E+01
12 Famiglia SLU	-7.000E+00	4.4000E+01	7.8000E+01
13 Famiglia SLU	-9.600E+01	1.0000E+01	-1.900E+02
14 Famiglia SLU	-1.300E+01	2.6000E+01	2.0300E+02
15 Famiglia SLU	-1.860E+02	-3.100E+01	-2.430E+02
16 Famiglia SLU	-1.570E+02	-3.100E+01	-5.130E+02
17 Famiglia SLU	-3.500E+01	2.6000E+01	-2.470E+02
18 Famiglia SLU	-7.000E+01	-8.000E+00	-5.140E+02
19 Famiglia SLU	-1.940E+02	-1.300E+01	-1.070E+02
20 Famiglia SLU	-1.650E+02	-1.300E+01	-3.770E+02
21 Famiglia SLU	-2.600E+01	4.3000E+01	-1.110E+02
22 Famiglia SLU	-7.700E+01	9.0000E+00	-3.780E+02
23 Famiglia SLU	-2.900E+01	6.0000E+01	4.7500E+02
24 Famiglia SLU	-1.330E+02	2.6000E+01	2.0700E+02
25 Famiglia SLU	1.0000E+00	6.0000E+01	2.0500E+02
26 Famiglia SLU	-1.040E+02	2.6000E+01	-6.300E+01
27 Famiglia SLU	-7.000E+00	1.2000E+01	9.8000E+01
28 Famiglia SLU	-1.800E+02	-4.400E+01	-3.480E+02
29 Famiglia SLU	-1.510E+02	-4.400E+01	-6.180E+02
30 Famiglia SLU	-4.100E+01	1.2000E+01	-3.520E+02
31 Famiglia SLU	-6.700E+01	-2.100E+01	-6.190E+02
32 Famiglia SLU	-1.880E+02	-2.700E+01	-2.120E+02
33 Famiglia SLU	-1.590E+02	-2.700E+01	-4.820E+02
34 Famiglia SLU	-3.300E+01	2.9000E+01	-2.160E+02
35 Famiglia SLU	-7.100E+01	-4.000E+00	-4.830E+02
36 Famiglia SLU	-2.300E+01	4.7000E+01	3.7000E+02
37 Famiglia SLU	-1.270E+02	1.3000E+01	1.0200E+02
38 Famiglia SLU	-5.000E+00	4.7000E+01	1.0000E+02
39 Famiglia SLU	-9.800E+01	1.3000E+01	-1.670E+02
40 Famiglia SLU	-1.500E+01	2.8000E+01	2.2600E+02
41 Famiglia SLU	-1.880E+02	-2.800E+01	-2.200E+02
42 Famiglia SLU	-1.590E+02	-2.800E+01	-4.900E+02
43 Famiglia SLU	-3.300E+01	2.8000E+01	-2.240E+02
44 Famiglia SLU	-7.100E+01	-5.000E+00	-4.920E+02

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  45 Famiglia SLU               -1.960E+02 -1.100E+01 -8.500E+01
  46 Famiglia SLU               -1.670E+02 -1.100E+01 -3.540E+02
  47 Famiglia SLU               -2.500E+01 4.6000E+01 -8.800E+01
  48 Famiglia SLU               -7.900E+01 1.2000E+01 -3.560E+02
  49 Famiglia SLU               -3.100E+01 6.3000E+01 4.9800E+02
  50 Famiglia SLU               -1.350E+02 2.9000E+01 2.3000E+02
  51 Famiglia SLU               -2.000E+00 6.3000E+01 2.2800E+02
  52 Famiglia SLU               -1.060E+02 2.9000E+01 -4.000E+01
   1 Famiglia SLV               -2.100E+02 2.0000E+01 1.6100E+02
   2 Famiglia SLV               -2.100E+02 2.0000E+01 1.6100E+02
   3 Famiglia SLV               -3.320E+02 2.0000E+01 1.6100E+02
   4 Famiglia SLV               -3.320E+02 2.0000E+01 1.6100E+02
   5 Famiglia SLV               -8.840E+02 2.0000E+01 1.6100E+02
   6 Famiglia SLV               -8.840E+02 2.0000E+01 1.6100E+02
   7 Famiglia SLV               -9.230E+02 2.0000E+01 1.6100E+02
   8 Famiglia SLV               -9.230E+02 2.0000E+01 1.6100E+02
   9 Famiglia SLV               -9.150E+02 2.0000E+01 1.6100E+02
  10 Famiglia SLV               -9.150E+02 2.0000E+01 1.6100E+02
  11 Famiglia SLV               -8.910E+02 2.0000E+01 1.6100E+02
  12 Famiglia SLV               -8.910E+02 2.0000E+01 1.6100E+02
  13 Famiglia SLV               -3.150E+02 2.0000E+01 1.6100E+02
  14 Famiglia SLV               -3.150E+02 2.0000E+01 1.6100E+02
  15 Famiglia SLV               -2.270E+02 2.0000E+01 1.6100E+02
  16 Famiglia SLV               -2.270E+02 2.0000E+01 1.6100E+02

Verifiche di resistenza SLE (§ 7.3.7.1) omesse in quanto garantite da uno spettro SLD sempre minore di quello SLV

Verifica a taglio, rifollamento e block tearing per la bullonatura del profilo portato
taglio:
FvEd =   468.5 daN <  FvRd =  7372.8 daN
comb.   7 fam.   3(SLV) N -9.230E+02 daN  Tx 2.0000E+01 daN  Ty 1.6100E+02 daN
rifollamento per il profilo portato:
FbEd =   936.9 daN <  FbRd =  4092.6 daN
comb.   7 fam.   3(SLV) N -9.230E+02 daN  Tx 2.0000E+01 daN  Ty 1.6100E+02 daN
block tearing anima(p. 3.10.2 EN 1993-1-8:2005):
VEd =    498.0 daN <  VeffRd =   3360.6 daN
comb.  49  N -3.100E+01 daN  Tx 6.3000E+01 daN  Ty 4.9800E+02 daN

Verifica a taglio, taglio+trazione e rifollamento per la bullonatura del profilo portante
taglio:
FvEd =   321.4 daN <  FvRd =  7372.8 daN
comb.   3  N -1.490E+02 daN  Tx -4.700E+01 daN  Ty -6.410E+02 daN
trazione + taglio per il profilo portante:
(FvEd/FvRd)+(FtEd/(1.4*FtRd)) =  0.042 <  1 FtEd =      1.1 FtRd =  11059.2
comb.  29  N -1.510E+02 daN  Tx -4.400E+01 daN  Ty -6.180E+02 daN
rifollamento per il profilo portante:
FbEd =   321.4 daN <  FbRd =  7776.0 daN
comb.   3  N -1.490E+02 daN  Tx -4.700E+01 daN  Ty -6.410E+02 daN

Verifica a punzonamento del bullone
Bp,Sd/Bp,Rd =  0.000 <  1 Bp,Sd =      1.1 Bp,Rd =  16210.6
comb.  25 N 1.0000E+00 daN Tx 6.0000E+01 daN Ty 2.0500E+02 daN Mx 0.0000E+00 daN*cm My 0.0000E+00 daN*cm Mt 3.0000E+00 daN*cm

Verifica del profilo portato a filo spallatura e sui fori
flessione e sforzo normale:
R = 0.109 <  1   MEd =   -2415.8 daN*cm MnRd =    22452.7 daN*cm NEd =       -70.0 daN Nrd =     43105.7 daN
comb.  18  N -7.000E+01 daN  Tx -8.000E+00 daN  Ty -5.140E+02 daN
flessione deviata e sforzo normale:
R = 0.140 <  1   MEdx =   -3012.7 daN*cm MnRdx =    22452.7 daN*cm MEdy =    -220.9 daN*cm MnRdy =    85974.1 daN*cm
comb.   3  N -1.490E+02 daN  Tx -4.700E+01 daN  Ty -6.410E+02 daN
compressione:
R = 0.021 <  1   NEd =    -923.0 daN NcRd =    43105.7 daN
comb.   7 fam.   3(SLV) N -9.230E+02 daN  Tx 2.0000E+01 daN  Ty 1.6100E+02 daN
trazione:
R = 0.000 <  1   NEd =       1.0 daN NuRd =    43105.7 daN
comb.  25  N 1.0000E+00 daN  Tx 6.0000E+01 daN  Ty 2.0500E+02 daN
taglio:
R = 0.077 <  1    VEd =  -642.0 daN VcRd =  8373.2 daN
comb.   5  N -6.700E+01 daN  Ty -6.420E+02 daN
sezione a filo spallatura:
flessione e sforzo normale:
R = 0.109 <  1   MEd =   -8224.0 daN*cm MnRd =    30525.1 daN*cm
comb.  18  N -7.000E+01 daN  Tx -8.000E+00 daN  Ty -5.140E+02 daN
flessione deviata e sforzo normale:
R = 0.348 <  1   MEdx =  -10256.0 daN*cm MnRdx =    30525.1 daN*cm MEdy =    -752.0 daN*cm MnRdy =    85983.7 daN*cm
comb.   3  N -1.490E+02 daN  Tx -4.700E+01 daN  Ty -6.410E+02 daN
compressione:
R = 0.021 <  1   NEd =    -923.0 daN NcRd =    43105.7 daN
comb.   7 fam.   3(SLV) N -9.230E+02 daN  Tx 2.0000E+01 daN  Ty 1.6100E+02 daN
trazione:
R = 0.000 <  1   NEd =       1.0 daN NuRd =    43105.7 daN
comb.  25  N 1.0000E+00 daN  Tx 6.0000E+01 daN  Ty 2.0500E+02 daN

Verifica di resistenza, rifollamento e block tearing delle squadrette sulle sezioni forate adiacenti al profilo portato:
resistenza:
taglio:
R = 0.035 <  1    VEd =  -321.0 daN VcRd =  9072.6 daN
comb.   5  N -6.700E+01 daN  Ty -6.420E+02 daN
flessione deviata e sforzo normale:
R = 0.088 <  1   MEdx =   -1611.5 daN*cm MnRdx =    21207.7 daN*cm MEdy =    -126.9 daN*cm MnRdy =    17181.0 daN*cm
comb.   3  N -1.490E+02 daN  Tx -4.700E+01 daN  Ty -6.410E+02 daN
compressione:
R = 0.029 <  1   NEd =    -461.5 daN NcRd =    15714.3 daN
comb.   7 fam.   3(SLV) N -9.230E+02 daN  Tx 2.0000E+01 daN  Ty 1.6100E+02 daN
```

```
trazione:
R = 0.000 <  1   NEd =       0.5 daN NuRd =    12693.6 daN
comb.  25  N 1.0000E+00 daN  Tx 6.0000E+01 daN  Ty 2.0500E+02 daN
rifollamento squadretta:
FbEd =    468.5 daN <  FbRd =   8147.4 daN
comb.   7 fam.   3(SLV) N -9.230E+02 daN  Tx 2.0000E+01 daN  Ty 1.6100E+02 daN
block tearing(p. 3.10.2 EN 1993-1-8:2005):
VEd =    321.0 daN <  VeffRd =   6625.8 daN
comb.   5  N -6.700E+01 daN  Tx -2.400E+01 daN  Ty -6.420E+02 daN

Verifica di resistenza e a rifollamento delle squadrette sulle sezioni forate adiacenti al profilo portante:
resistenza:
taglio:
R = 0.051 <  1    VEd =  -461.5 daN VcRd =  9072.6 daN
comb.   7 fam.   3(SLV) N -9.230E+02 daN  Ty 1.6100E+02 daN
flessione:
R = 0.052 <  1   MEd =   -1105.1 daN*cm McRd =    21207.7 daN*cm
comb.  18  N -7.000E+01 daN  Tx -8.000E+00 daN  Ty -5.140E+02 daN
flessione e sforzo normale:
R = 0.067 <  1   MEd =   -1378.2 daN*cm MnRd =    21207.7 daN*cm NEd =      23.5 daN Nrd =   12693.6 daN
comb.   3  N -1.490E+02 daN  Tx -4.700E+01 daN  Ty -6.410E+02 daN
flessione deviata:
R = 0.024 <  1   MEdx =     440.8 daN*cm MnRdx =    21207.7 daN*cm MEdy =       2.2 daN*cm MnRdy =     2684.5 daN*cm
comb.  25  N 1.0000E+00 daN  Tx 6.0000E+01 daN  Ty 2.0500E+02 daN
compressione:
R = 0.002 <  1   NEd =     -31.5 daN NcRd =    15714.3 daN
comb.  49  N -3.100E+01 daN  Tx 6.3000E+01 daN  Ty 4.9800E+02 daN
trazione:
R = 0.002 <  1   NEd =      31.5 daN NuRd =    12693.6 daN
comb.  49  N -3.100E+01 daN  Tx 6.3000E+01 daN  Ty 4.9800E+02 daN
rifollamento squadretta:
FbEd =    321.4 daN <  FbRd =   8147.4 daN
comb.   3  N -1.490E+02 daN  Tx -4.700E+01 daN  Ty -6.410E+02 daN
```

47 Verifiche pali

Rck: resistenza caratteristica cubica a compressione del cls
fyk: tensione caratteristica di snervamento dell'acciaio
quota: quota della sezione
comb: combinazione di carico
Af: area totale di acciaio a pressoflessione
cop.: copriferro
sigmac: tensione in esercizio sul cls
sigmaf: tensione in esercizio sull'acciaio
Wk: apertura caratteristica delle fessure
c.s.: coefficiente di sicurezza per stati limite ultimi
Ast: area delle staffe (cmq/m)
Mx: momento attorno all'asse X
My: momento attorno all'asse Y
N: sforzo normale
VEd: taglio risultante di calcolo
VEdx: taglio di calcolo in direzione x
VEdy: taglio di calcolo in direzione y
VRd: resistenza a taglio del solo calcestruzzo
VRcd: resistenza a taglio delle bielle in cls
VRsd: resistenza a taglio per la presenza delle staffe
coefV: coefficiente per verifica di resistenza a taglio e torsione micropali
coefM: coefficiente per verifica di resistenza a pressoflessione micropali
V: taglio di progetto
Mt: momento torcente di progetto
Mf: momento flettente di progetto

Pali di plinto su pali 1

```
Unità di misura: daN, cm
Metodo di calcolo: DM 14-01-08 Norme tecniche per le costruzioni

Caratteristiche dei materiali:

Calcestruzzo C25/30; Rck = 300
Acciaio B450C; fyk = 4500

Caratteristiche geometriche:

Quota di testa -130 cm
Quota di punta -830 cm
Diametro 60,0 cm



Palo al filo 1 alle coordinate X=575 Y=210


Sollecitazioni massime in testa palo:

Combinazione corrispondente alla minima compressione in testa
         N         Mx         My         Tx         Ty  comb
-1.666E+03 -9.862E+04 6.6653E+04 -1.134E+02 -8.966E+02  5      slu
-3.918E+03 -3.475E+04 4.4437E+04 -7.561E+01 -3.159E+02  5      ra
-6.834E+03 5.1159E+04 2.4390E+00 6.6133E-03 4.6508E+02  3      fr
-7.258E+03 6.5925E+04 5.5026E+00 1.0670E-02 5.9932E+02  1      qp
```

-6.292E+03 -6.661E+04 -2.393E+05 4.0440E+02 -6.055E+02 13   SLV fond

Combinazione corrispondente alla massima compressione in testa

N	Mx	My	Tx	Ty	comb	
-1.139E+04	1.3219E+05	1.6573E+01	2.9454E-02	1.2017E+03	49	slu
-8.485E+03	9.5112E+04	1.1409E+01	2.0433E-02	8.6465E+02	10	ra
-7.503E+03	7.1762E+04	6.6838E+00	1.2623E-02	6.5238E+02	4	fr
-7.258E+03	6.5925E+04	5.5026E+00	1.0670E-02	5.9932E+02	1	qp
-8.223E+03	1.9847E+05	2.3939E+05	-4.043E+02	1.8043E+03	3	SLV fond

Combinazione corrispondente al massimo taglio in testa

N	Mx	My	Tx	Ty	comb	
-1.139E+04	1.3219E+05	1.6573E+01	2.9454E-02	1.2017E+03	49	slu
-8.485E+03	9.5112E+04	1.1409E+01	2.0433E-02	8.6465E+02	10	ra
-7.503E+03	7.1762E+04	6.6838E+00	1.2623E-02	6.5238E+02	4	fr
-7.258E+03	6.5925E+04	5.5026E+00	1.0670E-02	5.9932E+02	1	qp
-7.749E+03	1.5921E+05	7.9797E+05	-1.348E+03	1.4474E+03	7	SLV fond

Verifica di capacità portante verticale riferita al palo singolo:

Fattore di correlazione Psi scelto in base alla conoscenza del sito = 1.7
Coeff. parziale di sicurezza sulla resistenza laterale = 1.15
Coeff. parziale di sicurezza sulla resistenza alla punta = 1.35
Portanza laterale di progetto = 9079.3
Portanza di punta di progetto = 12320
verifica condotta in combinazione SLU 49 per la condizione a breve termine
Sforzo normale   = -11392.8
Peso del palo   = 4948 * 1.3
Carico totale di progetto = -17825.2
Resistenza totale di progetto = 21399.2
Coefficiente di sicurezza = 1.2 > 1

Verifica di capacità portante trasversale riferita al palo singolo:

Fattore di correlazione Psi scelto in base alla conoscenza del sito = 1.7
Coeff. parziale di sicurezza sulla resistenza trasversale = 1.3
Verifica condotta in combinazione SLU 49
Portanza trasversale di progetto = 12058.4
Sforzo trasversale di progetto   = 1201.7
Coefficiente di sicurezza = 10.03 > 1

PARAMETRI UTILIZZATI NEL CALCOLO
Geometria:
Palo a testa incastrata
Lunghezza del tratto infisso nel terreno = 700
Larghezza del fronte di spinta = 60
Dati del suolo:
Calcolo condotto per la condizione drenata e terreno incoerente
Angolo di attrito interno di progetto (deg) = 20
Peso specifico del terreno di progetto = 0.0016
Sforzo trasversale massimo al collasso = 26649
Meccanismo di collasso come palo lungo (doppia cerniera)
Momento di plasticizzazione della cerniera plastica superiore = 2706990
a quota attacco fondazione
con sforzo normale di calcolo = -11760
Momento di plasticizzazione della cerniera plastica inferiore = 2641983
a quota = -549.9
con sforzo normale di calcolo = -6759

Verifica di resistenza allo stato limite:

quota	Af	cop.	c.s.	Mx	My	N	comb
-130	29.2	3.70	3.58	1.5921E+05	7.9797E+05	-7.749E+03	7SLV fond
-210	29.2	3.70	3.05	2.7500E+05	9.0579E+05	-8.315E+03	7SLV fond
-290	29.2	3.70	3.33	2.6984E+05	8.0005E+05	-5.901E+03	7SLV fond
-370	29.2	3.70	4.03	2.5216E+05	6.7223E+05	-6.466E+03	7SLV fond
-450	29.2	3.70	5.14	2.0251E+05	5.1171E+05	-4.095E+03	7SLV fond
-530	29.2	3.70	8.35	1.4034E+05	3.3840E+05	-4.661E+03	7SLV fond
-610	29.2	3.70	14.04	8.4191E+04	1.9470E+05	-2.321E+03	7SLV fond
-690	29.2	3.70	43.43	3.3358E+04	7.7147E+04	-2.886E+03	7SLV fond
-770	29.2	3.70	100.00	-3.492E-10	1.6088E-14	-8.362E+02	49SLU

Verifica di esercizio (combinazione rara):

quota	Af	cop.	sigmaf	sigmac	Mx	My	N	comb	Wk	comb
-130	29.2	3.70		6.4	9.5112E+04	1.1409E+01	-8.485E+03	10	0.000	1
-130	29.2	3.70	43.6		-2.311E+04	7.4056E+04	-3.948E+03	3	0.000	1
-210	29.2	3.70	80.1	10.3	1.6428E+05	9.7738E+00	-9.051E+03	10	0.000	1
-290	29.2	3.70	128.9	10.3	1.6120E+05	7.7254E+00	-6.462E+03	10	0.000	1
-370	29.2	3.70	97.6	9.5	1.5064E+05	5.6341E+00	-7.028E+03	10	0.000	1
-450	29.2	3.70	106.1	7.8	1.2098E+05	3.9331E+00	-4.486E+03	10	0.000	1
-530	29.2	3.70	34.1	5.3	8.3837E+04	2.3848E+00	-5.052E+03	10	0.000	1
-610	29.2	3.70	28.6	3.2	5.0295E+04	1.2561E+00	-2.544E+03	10	0.000	1
-690	29.2	3.70		1.7	1.9928E+04	4.9770E-01	-3.109E+03	10	0.000	1
-770	29.2	3.70		0.2	2.5739E-10	6.4879E-16	-6.217E+02	10	0.000	1

Verifica di esercizio (combinazione quasi permanente):

quota	Af	cop.	sigmaf	sigmac	Mx	My	N	comb	Wk	comb
-130	29.2	3.70		4.8	6.5925E+04	5.5026E+00	-7.258E+03	1	0.000	1
-210	29.2	3.70	34.1	7.2	1.1387E+05	4.6489E+00	-7.823E+03	1	0.000	1
-290	29.2	3.70	66.0	7.1	1.1173E+05	3.6499E+00	-5.526E+03	1	0.000	1
-370	29.2	3.70	45.4	6.6	1.0441E+05	2.6358E+00	-6.091E+03	1	0.000	1
-450	29.2	3.70	56.0	5.3	8.3852E+04	1.8276E+00	-3.834E+03	1	0.000	1
-530	29.2	3.70	13.2	3.7	5.8110E+04	1.0999E+00	-4.400E+03	1	0.000	1
-610	29.2	3.70	13.2	2.2	3.4861E+04	5.7450E-01	-2.172E+03	1	0.000	1
-690	29.2	3.70		1.4	1.3813E+04	2.2763E-01	-2.737E+03	1	0.000	1
-770	29.2	3.70		0.2	-5.116E-10	4.4580E-16	-5.268E+02	1	0.000	1

Verifica di esercizio (combinazione frequente):

quota	Af	cop.	Mx	My	N	comb	Wk
-130	29.2	3.70	6.5925E+04	5.5026E+00	-7.258E+03	1	0.000
-210	29.2	3.70	1.1387E+05	4.6489E+00	-7.823E+03	1	0.000
-290	29.2	3.70	1.1173E+05	3.6499E+00	-5.526E+03	1	0.000
-370	29.2	3.70	1.0441E+05	2.6358E+00	-6.091E+03	1	0.000
-450	29.2	3.70	8.3852E+04	1.8276E+00	-3.834E+03	1	0.000
-530	29.2	3.70	5.8110E+04	1.0999E+00	-4.400E+03	1	0.000
-610	29.2	3.70	3.4861E+04	5.7450E-01	-2.172E+03	1	0.000
-690	29.2	3.70	1.3813E+04	2.2763E-01	-2.737E+03	1	0.000
-770	29.2	3.70	-5.116E-10	4.4580E-16	-5.268E+02	1	0.000

Verifica a taglio:

quota	Ast	VEd	VEdx	VEdy	N	comb	VRd	VRcd	VRsd	
-130	0.20	1978	-1348	1447	-7749	7SLV fond	11215	68895	32482	VEd < VRd
-210	0.20	1978	-1348	1447	-8315	7SLV fond	11293	68895	32482	VEd < VRd
-290	0.11	1613	1598	-221	-5901	7SLV fond	10959	68895	18561	VEd < VRd
-370	0.11	1613	1598	-221	-6466	7SLV fond	11037	68895	18561	VEd < VRd
-450	0.11	2302	2166	-777	-4095	7SLV fond	10710	68895	18561	VEd < VRd
-530	0.11	2302	2166	-777	-4661	7SLV fond	10788	68895	18561	VEd < VRd
-610	0.11	1601	1469	-635	-2321	7SLV fond	10465	68895	18561	VEd < VRd
-690	0.11	1601	1469	-635	-2886	7SLV fond	10543	68895	18561	VEd < VRd
-770	0.11	0	0	0	-489	9SLV fond	10211	68895	18561	VEd < VRd

Pali di plinto su pali 2

Unità di misura: daN, cm
Metodo di calcolo: DM 14-01-08 Norme tecniche per le costruzioni

Caratteristiche dei materiali:

Calcestruzzo C25/30; Rck = 300
Acciaio B450C; fyk = 4500

Caratteristiche geometriche:

Quota di testa -130 cm
Quota di punta -830 cm
Diametro 60,0 cm

Palo al filo 2 alle coordinate X=575 Y=710

Sollecitazioni massime in testa palo:

Combinazione corrispondente alla minima compressione in testa

N	Mx	My	Tx	Ty	comb	
2.3150E+03	-1.843E+05	6.6427E+04	-1.128E+02	-1.675E+03	5	slu
-2.004E+03	-8.025E+04	4.4290E+04	-7.518E+01	-7.295E+02	5	ra
-7.583E+03	5.8571E+04	2.8100E-07	-4.747E-10	5.3246E+02	3	fr
-8.384E+03	8.0970E+04	-5.096E-07	9.3078E-10	7.3609E+02	1	qp
-7.409E+03	-4.715E+04	-2.394E+05	4.0478E+02	-4.287E+02	13	SLV fond

Combinazione corrispondente alla massima compressione in testa

N	Mx	My	Tx	Ty	comb	
-1.470E+04	1.8611E+05	-2.333E-06	4.2263E-09	1.6919E+03	49	slu
-1.077E+04	1.3174E+05	-1.558E-06	2.8232E-09	1.1977E+03	10	ra
-8.861E+03	9.1125E+04	-7.192E-07	1.3092E-09	8.2841E+02	4	fr
-8.384E+03	8.0970E+04	-5.096E-07	9.3078E-10	7.3609E+02	1	qp
-9.360E+03	2.0904E+05	-2.394E+05	4.0468E+02	1.9004E+03	1	SLV fond

Combinazione corrispondente al massimo taglio in testa

N	Mx	My	Tx	Ty	comb	
-1.470E+04	1.8611E+05	-2.333E-06	4.2263E-09	1.6919E+03	49	slu
-1.077E+04	1.3174E+05	-1.558E-06	2.8232E-09	1.1977E+03	10	ra
-8.861E+03	9.1125E+04	-7.192E-07	1.3092E-09	8.2841E+02	4	fr
-8.384E+03	8.0970E+04	-5.096E-07	9.3078E-10	7.3609E+02	1	qp
-9.360E+03	2.0904E+05	-2.394E+05	4.0468E+02	1.9004E+03	1	SLV fond

Verifica di capacità portante verticale riferita al palo singolo:

Fattore di correlazione Psi scelto in base alla conoscenza del sito = 1.7
Coeff. parziale di sicurezza sulla resistenza laterale = 1.15
Coeff. parziale di sicurezza sulla resistenza alla punta = 1.35

Portanza laterale di progetto = 9079.3
Portanza di punta di progetto = 12320
verifica condotta in combinazione SLU 49 per la condizione a breve termine
Sforzo normale = -14701.6
Peso del palo = 4948 * 1.3
Carico totale di progetto = -21134
Resistenza totale di progetto = 21399.2
Coefficiente di sicurezza = 1.01 > 1

Verifica di capacità portante trasversale riferita al palo singolo:

Fattore di correlazione Psi scelto in base alla conoscenza del sito = 1.7
Coeff. parziale di sicurezza sulla resistenza trasversale = 1.3
Verifica condotta in combinazione SLU 5
Portanza trasversale di progetto = 11630
Sforzo trasversale di progetto = 1679.1
Coefficiente di sicurezza = 6.93 > 1

PARAMETRI UTILIZZATI NEL CALCOLO
Geometria:
Palo a testa incastrata
Lunghezza del tratto infisso nel terreno = 700
Larghezza del fronte di spinta = 60
Dati del suolo:
Calcolo condotto per la condizione drenata e terreno incoerente
Angolo di attrito interno di progetto (deg) = 20
Peso specifico del terreno di progetto = 0.0016
Sforzo trasversale massimo al collasso = 25702
Meccanismo di collasso come palo lungo (doppia cerniera)
Momento di plasticizzazione della cerniera plastica superiore = 2521193
a quota attacco fondazione
con sforzo normale di calcolo = 2032
Momento di plasticizzazione della cerniera plastica inferiore = 2545235
a quota = -548.8
con sforzo normale di calcolo = 684

Verifica di resistenza allo stato limite:

quota	Af	cop.	c.s.	Mx	My	N	comb
-130	29.2	3.70	3.68	1.1933E+05	-7.980E+05	-8.677E+03	5SLV fond
-210	29.2	3.70	3.16	2.0612E+05	-9.059E+05	-9.242E+03	5SLV fond
-290	29.2	3.70	3.45	2.0225E+05	-8.002E+05	-6.608E+03	5SLV fond
-370	29.2	3.70	4.22	1.8900E+05	-6.724E+05	-7.174E+03	5SLV fond
-450	29.2	3.70	5.39	1.5179E+05	-5.118E+05	-4.588E+03	5SLV fond
-530	29.2	3.70	8.89	1.0519E+05	-3.385E+05	-5.153E+03	5SLV fond
-610	29.2	3.70	14.94	6.3104E+04	-1.948E+05	-2.602E+03	5SLV fond
-690	29.2	3.70	44.81	2.5003E+04	-7.717E+04	-3.167E+03	5SLV fond
-770	29.2	3.70	100.00	-8.367E-11	0.0000E+00	-1.092E+03	49SLU

Verifica di esercizio (combinazione rara):

quota	Af	cop.	sigmaf	sigmac	Mx	My	N	comb	Wk	comb
-130	29.2	3.70		8.6	1.3174E+05	-1.558E-06	-1.077E+04	10	0.000	1
-130	29.2	3.70	140.2		-6.826E+04	7.3827E+04	-2.026E+03	3	0.000	1
-210	29.2	3.70		14.4	2.2756E+05	-1.784E-06	-1.133E+04	10	0.000	1
-210	29.2	3.70	219.4		-1.386E+05	5.0305E+04	-2.570E+03	5	0.000	1
-290	29.2	3.70		14.4	2.2328E+05	-1.580E-06	-8.204E+03	10	0.000	1
-290	29.2	3.70	247.7		-1.360E+05	4.4441E+04	-1.519E+03	5	0.000	1
-370	29.2	3.70		13.3	2.0866E+05	-1.332E-06	-8.769E+03	10	0.000	1
-370	29.2	3.70	204.9		-1.271E+05	3.7349E+04	-2.084E+03	5	0.000	1
-450	29.2	3.70		10.9	1.6757E+05	-1.015E-06	-5.698E+03	10	0.000	1
-450	29.2	3.70	186.4		-1.021E+05	2.8434E+04	-1.044E+03	5	0.000	1
-530	29.2	3.70		7.3	1.1613E+05	-6.725E-07	-6.264E+03	10	0.000	1
-530	29.2	3.70	97.5		-7.074E+04	1.8806E+04	-1.610E+03	5	0.000	1
-610	29.2	3.70		4.4	6.9666E+04	-3.875E-07	-3.236E+03	10	0.000	1
-610	29.2	3.70	71.7		-4.244E+04	1.0821E+04	-5.793E+02	5	0.000	1
-690	29.2	3.70		2.2	2.7603E+04	-1.535E-07	-3.801E+03	10	0.000	1
-690	29.2	3.70	5.7		-1.681E+04	4.2877E+03	-1.145E+03	5	0.000	1
-770	29.2	3.70		0.2	-4.311E-10	0.0000E+00	-7.982E+02	10	0.000	1

Verifica di esercizio (combinazione quasi permanente):

quota	Af	cop.	sigmaf	sigmac	Mx	My	N	comb	Wk	comb
-130	29.2	3.70	2.7	5.7	8.0970E+04	-5.096E-07	-8.384E+03	1	0.000	1
-210	29.2	3.70	49.8	8.8	1.3986E+05	-5.841E-07	-8.950E+03	1	0.000	1
-290	29.2	3.70	89.3	8.7	1.3723E+05	-5.175E-07	-6.385E+03	1	0.000	1
-370	29.2	3.70	64.4	8.1	1.2824E+05	-4.363E-07	-6.951E+03	1	0.000	1
-450	29.2	3.70	75.0	6.6	1.0299E+05	-3.328E-07	-4.432E+03	1	0.000	1
-530	29.2	3.70	20.3	4.5	7.1371E+04	-2.204E-07	-4.998E+03	1	0.000	1
-610	29.2	3.70	18.4	2.7	4.2817E+04	-1.270E-07	-2.513E+03	1	0.000	1

-690	29.2	3.70	1.6	1.6965E+04	-5.034E-08	-3.079E+03	1	0.000 1
-770	29.2	3.70	0.2	-1.946E-10	0.0000E+00	-6.139E+02	1	0.000 1

Verifica di esercizio (combinazione frequente):

quota	Af	cop.	Mx	My	N	comb	Wk
-130	29.2	3.70	8.0970E+04	-5.096E-07	-8.384E+03	1	0.000
-210	29.2	3.70	1.3986E+05	-5.841E-07	-8.950E+03	1	0.000
-290	29.2	3.70	1.3723E+05	-5.175E-07	-6.385E+03	1	0.000
-370	29.2	3.70	1.2824E+05	-4.363E-07	-6.951E+03	1	0.000
-450	29.2	3.70	1.0299E+05	-3.328E-07	-4.432E+03	1	0.000
-530	29.2	3.70	7.1371E+04	-2.204E-07	-4.998E+03	1	0.000
-610	29.2	3.70	4.2817E+04	-1.270E-07	-2.513E+03	1	0.000
-690	29.2	3.70	1.6965E+04	-5.034E-08	-3.079E+03	1	0.000
-770	29.2	3.70	-1.946E-10	0.0000E+00	-6.139E+02	1	0.000

Verifica a taglio:

quota	Ast	VEd	VEdx	VEdy	N	comb	VRd	VRcd	VRsd	
-130	0.20	1943	405	1900	-9360	1SLV fond	10005	68895	32482	VEd < VRd
-210	0.20	1943	405	1900	-9925	1SLV fond	10083	68895	32482	VEd < VRd
-290	0.11	1606	-1598	-166	-6608	5SLV fond	9625	68895	18561	VEd < VRd
-370	0.11	1606	-1598	-166	-7174	5SLV fond	9703	68895	18561	VEd < VRd
-450	0.11	2244	-2167	-582	-4588	5SLV fond	9346	68895	18561	VEd < VRd
-530	0.11	2244	-2167	-582	-5153	5SLV fond	9424	68895	18561	VEd < VRd
-610	0.11	1545	-1470	-476	-2602	5SLV fond	9072	68895	18561	VEd < VRd
-690	0.11	1545	-1470	-476	-3167	5SLV fond	9150	68895	18561	VEd < VRd
-770	0.11	0	0	0	73	7SLU	8712	68895	18561	VEd < VRd

Pali di plinto su pali 3

Unità di misura: daN, cm
Metodo di calcolo: DM 14-01-08 Norme tecniche per le costruzioni

Caratteristiche dei materiali:

Calcestruzzo C25/30; Rck = 300
Acciaio B450C; fyk = 4500

Caratteristiche geometriche:

Quota di testa -130 cm
Quota di punta -830 cm
Diametro 60,0 cm

Palo al filo 3 alle coordinate X=575 Y=1210

Sollecitazioni massime in testa palo:

Combinazione corrispondente alla minima compressione in testa

N	Mx	My	Tx	Ty	comb	
-1.672E+03	-1.034E+05	6.6381E+04	-1.126E+02	-9.396E+02	5	slu
-3.922E+03	-3.790E+04	4.4265E+04	-7.510E+01	-3.446E+02	5	ra
-6.834E+03	5.1159E+04	-2.439E+00	-6.613E-03	4.6508E+02	3	fr
-7.258E+03	6.5925E+04	-5.503E+00	-1.067E-02	5.9932E+02	1	qp
-6.292E+03	-6.661E+04	2.3929E+05	-4.044E+02	-6.055E+02	15	SLV fond

Combinazione corrispondente alla massima compressione in testa

N	Mx	My	Tx	Ty	comb	
-1.139E+04	1.3219E+05	-1.657E+01	-2.945E-02	1.2017E+03	49	slu
-8.485E+03	9.5112E+04	-1.141E+01	-2.043E-02	8.6465E+02	10	ra
-7.503E+03	7.1762E+04	-6.684E+00	-1.262E-02	6.5238E+02	4	fr
-7.258E+03	6.5925E+04	-5.503E+00	-1.067E-02	5.9932E+02	1	qp
-8.223E+03	1.9847E+05	-2.394E+05	4.0431E+02	1.8043E+03	1	SLV fond

Combinazione corrispondente al massimo taglio in testa

N	Mx	My	Tx	Ty	comb	
-1.139E+04	1.3219E+05	-1.657E+01	-2.945E-02	1.2017E+03	49	slu
-8.485E+03	9.5112E+04	-1.141E+01	-2.043E-02	8.6465E+02	10	ra
-7.503E+03	7.1762E+04	-6.684E+00	-1.262E-02	6.5238E+02	4	fr
-7.258E+03	6.5925E+04	-5.503E+00	-1.067E-02	5.9932E+02	1	qp
-7.749E+03	1.5921E+05	-7.980E+05	1.3477E+03	1.4474E+03	5	SLV fond

Verifica di capacità portante verticale riferita al palo singolo:

Fattore di correlazione Psi scelto in base alla conoscenza del sito = 1.7
Coeff. parziale di sicurezza sulla resistenza laterale = 1.15
Coeff. parziale di sicurezza sulla resistenza alla punta = 1.35
Portanza laterale di progetto = 9079.3
Portanza di punta di progetto = 12320
verifica condotta in combinazione SLU 49 per la condizione a breve termine
Sforzo normale = -11392.8
Peso del palo = 4948 * 1.3
Carico totale di progetto = -17825.2
Resistenza totale di progetto = 21399.2
Coefficiente di sicurezza = 1.2 > 1

Verifica di capacità portante trasversale riferita al palo singolo:

Fattore di correlazione Psi scelto in base alla conoscenza del sito = 1.7
Coeff. parziale di sicurezza sulla resistenza trasversale = 1.3
Verifica condotta in combinazione SLU 49
Portanza trasversale di progetto = 12058.4
Sforzo trasversale di progetto = 1201.7
Coefficiente di sicurezza = 10.03 > 1

PARAMETRI UTILIZZATI NEL CALCOLO
Geometria:
Palo a testa incastrata
Lunghezza del tratto infisso nel terreno = 700
Larghezza del fronte di spinta = 60
Dati del suolo:
Calcolo condotto per la condizione drenata e terreno incoerente
Angolo di attrito interno di progetto (deg) = 20
Peso specifico del terreno di progetto = 0.0016
Sforzo trasversale massimo al collasso = 26649
Meccanismo di collasso come palo lungo (doppia cerniera)
Momento di plasticizzazione della cerniera plastica superiore = 2706990
a quota attacco fondazione
con sforzo normale di calcolo = -11760
Momento di plasticizzazione della cerniera plastica inferiore = 2641983
a quota = -549.9
con sforzo normale di calcolo = -6759

Verifica di resistenza allo stato limite:

quota	Af	cop.	c.s.	Mx	My	N	comb
-130	29.2	3.70	3.58	1.5921E+05	-7.980E+05	-7.749E+03	5SLV fond
-210	29.2	3.70	3.05	2.7500E+05	-9.058E+05	-8.315E+03	5SLV fond
-290	29.2	3.70	3.33	2.6984E+05	-8.001E+05	-5.901E+03	5SLV fond
-370	29.2	3.70	4.03	2.5216E+05	-6.722E+05	-6.466E+03	5SLV fond
-450	29.2	3.70	5.14	2.0251E+05	-5.117E+05	-4.095E+03	5SLV fond
-530	29.2	3.70	8.35	1.4034E+05	-3.384E+05	-4.661E+03	5SLV fond
-610	29.2	3.70	14.04	8.4191E+04	-1.947E+05	-2.321E+03	5SLV fond
-690	29.2	3.70	43.43	3.3358E+04	-7.715E+04	-2.886E+03	5SLV fond
-770	29.2	3.70	100.00	-1.246E-10	3.4452E-15	-8.362E+02	49SLU

Verifica di esercizio (combinazione rara):

quota	Af	cop.	sigmaf	sigmac	Mx	My	N	comb	Wk	comb
-130	29.2	3.70		6.4	9.5112E+04	-1.141E+01	-8.485E+03	10	0.000	1
-130	29.2	3.70	45.8		-2.837E+04	7.3788E+04	-3.955E+03	3	0.000	1
-210	29.2	3.70	80.1	10.3	1.6428E+05	-9.774E+00	-9.051E+03	10	0.000	1
-290	29.2	3.70	128.9	10.3	1.6120E+05	-7.725E+00	-6.462E+03	10	0.000	1
-370	29.2	3.70	97.6	9.5	1.5064E+05	-5.634E+00	-7.028E+03	10	0.000	1
-450	29.2	3.70	106.1	7.8	1.2098E+05	-3.933E+00	-4.486E+03	10	0.000	1
-530	29.2	3.70	34.1	5.3	8.3837E+04	-2.385E+00	-5.052E+03	10	0.000	1
-610	29.2	3.70	28.6	3.2	5.0295E+04	-1.256E+00	-2.544E+03	10	0.000	1
-690	29.2	3.70		1.7	1.9928E+04	-4.977E-01	-3.109E+03	10	0.000	1
-770	29.2	3.70		0.2	-1.728E-10	-4.014E-15	-6.217E+02	10	0.000	1

Verifica di esercizio (combinazione quasi permanente):

quota	Af	cop.	sigmaf	sigmac	Mx	My	N	comb	Wk	comb
-130	29.2	3.70		4.8	6.5925E+04	-5.503E+00	-7.258E+03	1	0.000	1
-210	29.2	3.70	34.1	7.2	1.1387E+05	-4.649E+00	-7.823E+03	1	0.000	1
-290	29.2	3.70	66.0	7.1	1.1173E+05	-3.650E+00	-5.526E+03	1	0.000	1
-370	29.2	3.70	45.4	6.6	1.0441E+05	-2.636E+00	-6.091E+03	1	0.000	1
-450	29.2	3.70	56.0	5.3	8.3852E+04	-1.828E+00	-3.834E+03	1	0.000	1
-530	29.2	3.70	13.2	3.7	5.8110E+04	-1.100E+00	-4.400E+03	1	0.000	1
-610	29.2	3.70	13.2	2.2	3.4861E+04	-5.745E-01	-2.172E+03	1	0.000	1
-690	29.2	3.70		1.4	1.3813E+04	-2.276E-01	-2.737E+03	1	0.000	1
-770	29.2	3.70		0.2	-4.120E-10	-2.011E-15	-5.268E+02	1	0.000	1

Verifica di esercizio (combinazione frequente):

quota	Af	cop.	Mx	My	N	comb	Wk
-130	29.2	3.70	6.5925E+04	-5.503E+00	-7.258E+03	1	0.000
-210	29.2	3.70	1.1387E+05	-4.649E+00	-7.823E+03	1	0.000
-290	29.2	3.70	1.1173E+05	-3.650E+00	-5.526E+03	1	0.000
-370	29.2	3.70	1.0441E+05	-2.636E+00	-6.091E+03	1	0.000
-450	29.2	3.70	8.3852E+04	-1.828E+00	-3.834E+03	1	0.000
-530	29.2	3.70	5.8110E+04	-1.100E+00	-4.400E+03	1	0.000
-610	29.2	3.70	3.4861E+04	-5.745E-01	-2.172E+03	1	0.000
-690	29.2	3.70	1.3813E+04	-2.276E-01	-2.737E+03	1	0.000
-770	29.2	3.70	-4.120E-10	-2.011E-15	-5.268E+02	1	0.000

Verifica a taglio:

quota	Ast	VEd	VEdx	VEdy	N	comb	VRd	VRcd	VRsd	
-130	0.20	1978	1348	1447	-7749	5SLV fond	9783	68895	32482	VEd < VRd
-210	0.20	1978	1348	1447	-8315	5SLV fond	9861	68895	32482	VEd < VRd

-290	0.11	1613	-1598	-221	-5901	5SLV fond	9527	68895	18561	VEd < VRd
-370	0.11	1613	-1598	-221	-6466	5SLV fond	9605	68895	18561	VEd < VRd
-450	0.11	2302	-2166	-777	-4095	5SLV fond	9278	68895	18561	VEd < VRd
-530	0.11	2302	-2166	-777	-4661	5SLV fond	9356	68895	18561	VEd < VRd
-610	0.11	1601	-1469	-635	-2321	5SLV fond	9033	68895	18561	VEd < VRd
-690	0.11	1601	-1469	-635	-2886	5SLV fond	9111	68895	18561	VEd < VRd
-770	0.11	0	0	0	-523	9SLV fond	8784	68895	18561	VEd < VRd

Pali di plinto su pali 4

Unità di misura: daN, cm
Metodo di calcolo: DM 14-01-08 Norme tecniche per le costruzioni

Caratteristiche dei materiali:

Calcestruzzo C25/30; Rck = 300
Acciaio B450C; fyk = 4500

Caratteristiche geometriche:

Quota di testa -130 cm
Quota di punta -830 cm
Diametro 60,0 cm

Palo al filo 4 alle coordinate X=2045 Y=210

Sollecitazioni massime in testa palo:

Combinazione corrispondente alla minima compressione in testa

N	Mx	My	Tx	Ty	comb	
-2.322E+03	2.6302E+04	1.5826E+05	-5.063E+02	2.3911E+02	3	slu
-3.992E+03	-1.003E+04	1.0550E+05	-3.375E+02	-9.117E+01	3	ra
-6.123E+03	-5.203E+04	2.1097E+04	-6.749E+01	-4.730E+02	2	fr
-6.440E+03	-6.073E+04	1.0344E+01	-2.055E-02	-5.521E+02	1	qp
-5.350E+03	1.5975E+05	2.2383E+05	-4.470E+02	1.4523E+03	3	SLV fond

Combinazione corrispondente alla massima compressione in testa

N	Mx	My	Tx	Ty	comb	
-9.892E+03	-1.169E+05	3.0117E+01	-5.974E-02	-1.063E+03	49	slu
-7.394E+03	-8.459E+04	2.0790E+01	-4.124E-02	-7.690E+02	10	ra
-6.631E+03	-6.550E+04	1.2433E+01	-2.468E-02	-5.955E+02	4	fr
-6.440E+03	-6.073E+04	1.0344E+01	-2.055E-02	-5.521E+02	1	qp
-7.530E+03	-2.812E+05	-2.234E+05	4.4600E+02	-2.556E+03	13	SLV fond

Combinazione corrispondente al massimo taglio in testa

N	Mx	My	Tx	Ty	comb	
-9.892E+03	-1.169E+05	3.0117E+01	-5.974E-02	-1.063E+03	49	slu
-7.394E+03	-8.459E+04	2.0790E+01	-4.124E-02	-7.690E+02	10	ra
-6.631E+03	-6.550E+04	1.2433E+01	-2.468E-02	-5.955E+02	4	fr
-6.440E+03	-6.073E+04	1.0344E+01	-2.055E-02	-5.521E+02	1	qp
-7.530E+03	-2.812E+05	-2.234E+05	4.4600E+02	-2.556E+03	13	SLV fond

Verifica di capacità portante verticale riferita al palo singolo:

Fattore di correlazione Psi scelto in base alla conoscenza del sito = 1.7
Coeff. parziale di sicurezza sulla resistenza laterale = 1.15
Coeff. parziale di sicurezza sulla resistenza alla punta = 1.35
Portanza laterale di progetto = 9079.3
Portanza di punta di progetto = 12320
verifica condotta in combinazione SLU 49 per la condizione a breve termine
Sforzo normale = -9892.1
Peso del palo = 4948 * 1.3
Carico totale di progetto = -16324.5
Resistenza totale di progetto = 21399.2
Coefficiente di sicurezza = 1.31 > 1

Verifica di capacità portante trasversale riferita al palo singolo:

Fattore di correlazione Psi scelto in base alla conoscenza del sito = 1.7
Coeff. parziale di sicurezza sulla resistenza trasversale = 1.3
Verifica condotta in combinazione SLU 49
Portanza trasversale di progetto = 12013.5
Sforzo trasversale di progetto = 1063
Coefficiente di sicurezza = 11.3 > 1

PARAMETRI UTILIZZATI NEL CALCOLO
Geometria:
Palo a testa incastrata
Lunghezza del tratto infisso nel terreno = 700
Larghezza del fronte di spinta = 60
Dati del suolo:
Calcolo condotto per la condizione drenata e terreno incoerente
Angolo di attrito interno di progetto (deg) = 20
Peso specifico del terreno di progetto = 0.0016
Sforzo trasversale massimo al collasso = 26550
Meccanismo di collasso come palo lungo (doppia cerniera)
Momento di plasticizzazione della cerniera plastica superiore = 2687484
a quota attacco fondazione
con sforzo normale di calcolo = -10260
Momento di plasticizzazione della cerniera plastica inferiore = 2631624
a quota = -549.8

con sforzo normale di calcolo = -5962

Verifica di resistenza allo stato limite:

quota	Af	cop.	c.s.	Mx	My	N	comb
-130	29.2	3.70	3.74	-2.273E+05	-7.446E+05	-7.317E+03	9SLV fond
-210	29.2	3.70	3.02	-3.927E+05	-8.635E+05	-7.883E+03	9SLV fond
-290	29.2	3.70	3.25	-3.853E+05	-7.680E+05	-5.571E+03	9SLV fond
-370	29.2	3.70	3.85	-3.601E+05	-6.502E+05	-6.137E+03	9SLV fond
-450	29.2	3.70	4.87	-2.892E+05	-4.970E+05	-3.866E+03	9SLV fond
-530	29.2	3.70	7.78	-2.004E+05	-3.299E+05	-4.431E+03	9SLV fond
-610	29.2	3.70	12.98	-1.202E+05	-1.905E+05	-2.190E+03	9SLV fond
-690	29.2	3.70	40.97	-4.763E+04	-7.548E+04	-2.755E+03	9SLV fond
-770	29.2	3.70	100.00	-9.093E-12	4.4742E-14	-7.202E+02	49SLU

Verifica di esercizio (combinazione rara):

quota	Af	cop.	sigmaf	sigmac	Mx	My	N	comb	Wk	comb
-130	29.2	3.70		6.9	-2.913E+04	1.0548E+05	-5.329E+03	6	0.000	1
-130	29.2	3.70	91.3		-1.003E+04	1.0550E+05	-3.992E+03	3	0.000	1
-210	29.2	3.70		9.2	-1.461E+05	2.4090E+01	-7.959E+03	10	0.000	1
-210	29.2	3.70	128.1		-1.732E+04	1.3250E+05	-4.558E+03	3	0.000	1
-290	29.2	3.70		9.2	-1.434E+05	2.1418E+01	-5.630E+03	10	0.000	1
-290	29.2	3.70	150.7		-1.700E+04	1.2068E+05	-3.035E+03	3	0.000	1
-370	29.2	3.70		8.5	-1.340E+05	1.8128E+01	-6.195E+03	10	0.000	1
-370	29.2	3.70	102.1		-1.588E+04	1.0484E+05	-3.600E+03	3	0.000	1
-450	29.2	3.70		6.9	-1.076E+05	1.3854E+01	-3.907E+03	10	0.000	1
-450	29.2	3.70	100.0		-1.276E+04	8.1230E+04	-2.100E+03	3	0.000	1
-530	29.2	3.70		4.7	-7.456E+04	9.1954E+00	-4.472E+03	10	0.000	1
-530	29.2	3.70	34.0		-8.839E+03	5.4586E+04	-2.666E+03	3	0.000	1
-610	29.2	3.70		2.8	-4.473E+04	5.3087E+00	-2.213E+03	10	0.000	1
-610	29.2	3.70	28.8		-5.303E+03	3.1873E+04	-1.182E+03	3	0.000	1
-690	29.2	3.70		1.5	-1.772E+04	2.1034E+00	-2.778E+03	10	0.000	1
-770	29.2	3.70		0.2	3.8199E-10	-1.621E-14	-5.373E+02	10	0.000	1

Verifica di esercizio (combinazione quasi permanente):

quota	Af	cop.	sigmaf	sigmac	Mx	My	N	comb	Wk	comb
-130	29.2	3.70	1.2	4.3	-6.073E+04	1.0344E+01	-6.440E+03	1	0.000	1
-210	29.2	3.70	33.7	6.6	-1.049E+05	1.1987E+01	-7.006E+03	1	0.000	1
-290	29.2	3.70	64.6	6.5	-1.029E+05	1.0658E+01	-4.902E+03	1	0.000	1
-370	29.2	3.70	44.1	6.0	-9.619E+04	9.0219E+00	-5.468E+03	1	0.000	1
-450	29.2	3.70	54.5	4.9	-7.724E+04	6.8951E+00	-3.400E+03	1	0.000	1
-530	29.2	3.70	13.0	3.4	-5.353E+04	4.5766E+00	-3.966E+03	1	0.000	1
-610	29.2	3.70	13.2	2.0	-3.211E+04	2.6422E+00	-1.924E+03	1	0.000	1
-690	29.2	3.70		1.3	-1.272E+04	1.0469E+00	-2.489E+03	1	0.000	1
-770	29.2	3.70		0.1	-3.579E-10	-3.830E-15	-4.636E+02	1	0.000	1

Verifica di esercizio (combinazione frequente):

quota	Af	cop.	Mx	My	N	comb	Wk
-130	29.2	3.70	-6.073E+04	1.0344E+01	-6.440E+03	1	0.000
-210	29.2	3.70	-1.049E+05	1.1987E+01	-7.006E+03	1	0.000
-290	29.2	3.70	-1.029E+05	1.0658E+01	-4.902E+03	1	0.000
-370	29.2	3.70	-9.619E+04	9.0219E+00	-5.468E+03	1	0.000
-450	29.2	3.70	-7.724E+04	6.8951E+00	-3.400E+03	1	0.000
-530	29.2	3.70	-5.353E+04	4.5766E+00	-3.966E+03	1	0.000
-610	29.2	3.70	-3.211E+04	2.6422E+00	-1.924E+03	1	0.000
-690	29.2	3.70	-1.272E+04	1.0469E+00	-2.489E+03	1	0.000
-770	29.2	3.70	-3.579E-10	-3.830E-15	-4.636E+02	1	0.000

Verifica a taglio:

quota	Ast	VEd	VEdx	VEdy	N	comb	VRd	VRcd	VRsd	
-130	0.20	2595	446	-2556	-7530	13SLV fond	11184	68895	32482	VEd < VRd
-210	0.20	2595	446	-2556	-8095	13SLV fond	11262	68895	32482	VEd < VRd
-290	0.11	1505	-1472	315	-5571	9SLV fond	10914	68895	18561	VEd < VRd
-370	0.11	1505	-1472	315	-6137	9SLV fond	10992	68895	18561	VEd < VRd
-450	0.11	2365	-2089	1110	-3866	9SLV fond	10678	68895	18561	VEd < VRd
-530	0.11	2365	-2089	1110	-4431	9SLV fond	10756	68895	18561	VEd < VRd
-610	0.11	1700	-1438	907	-2190	9SLV fond	10446	68895	18561	VEd < VRd
-690	0.11	1700	-1438	907	-2755	9SLV fond	10525	68895	18561	VEd < VRd
-770	0.11	0	0	0	-531	9SLV fond	10217	68895	18561	VEd < VRd

Pali di plinto su pali 5

Unità di misura: daN, cm

Metodo di calcolo: DM 14-01-08 Norme tecniche per le costruzioni

Caratteristiche dei materiali:

Calcestruzzo C25/30; Rck = 300
Acciaio B450C; fyk = 4500

Caratteristiche geometriche:

Quota di testa -130 cm
Quota di punta -830 cm
Diametro 60,0 cm

Palo al filo 5 alle coordinate X=2045 Y=710

Sollecitazioni massime in testa palo:

Combinazione corrispondente alla minima compressione in testa

N	Mx	My	Tx	Ty	comb	
1.1420E+03	1.4907E+05	1.3187E+05	-2.637E+02	1.3551E+03	3	slu
-2.340E+03	4.9888E+04	8.7906E+04	-1.758E+02	4.5353E+02	3	ra
-6.799E+03	-7.139E+04	1.7565E+04	-3.513E+01	-6.490E+02	2	fr
-7.449E+03	-9.136E+04	4.9239E-07	-1.048E-09	-8.305E+02	1	qp
-6.493E+03	1.1211E+05	-2.236E+05	4.4645E+02	1.0192E+03	1	SLV fond

Combinazione corrispondente alla massima compressione in testa

N	Mx	My	Tx	Ty	comb	
-1.284E+04	-2.166E+05	2.1853E-06	-4.523E-09	-1.969E+03	49	slu
-9.431E+03	-1.528E+05	1.4618E-06	-3.031E-09	-1.389E+03	10	ra
-7.845E+03	-1.036E+05	6.8621E-07	-1.445E-09	-9.422E+02	4	fr
-7.449E+03	-9.136E+04	4.9239E-07	-1.048E-09	-8.305E+02	1	qp
-8.405E+03	-2.949E+05	-2.236E+05	4.4653E+02	-2.681E+03	13	SLV fond

Combinazione corrispondente al massimo taglio in testa

N	Mx	My	Tx	Ty	comb	
-1.284E+04	-2.166E+05	2.1853E-06	-4.523E-09	-1.969E+03	49	slu
-9.431E+03	-1.528E+05	1.4618E-06	-3.031E-09	-1.389E+03	10	ra
-7.845E+03	-1.036E+05	6.8621E-07	-1.445E-09	-9.422E+02	4	fr
-7.449E+03	-9.136E+04	4.9239E-07	-1.048E-09	-8.305E+02	1	qp
-8.405E+03	-2.949E+05	-2.236E+05	4.4653E+02	-2.681E+03	13	SLV fond

Verifica di capacità portante verticale riferita al palo singolo:

Fattore di correlazione Psi scelto in base alla conoscenza del sito = 1.7
Coeff. parziale di sicurezza sulla resistenza laterale = 1.15
Coeff. parziale di sicurezza sulla resistenza alla punta = 1.35
Portanza laterale di progetto = 9079.3
Portanza di punta di progetto = 12320
verifica condotta in combinazione SLU 49 per la condizione a breve termine
Sforzo normale = -12841.7
Peso del palo = 4948 * 1.3
Carico totale di progetto = -19274.1
Resistenza totale di progetto = 21399.2
Coefficiente di sicurezza = 1.11 > 1

Verifica di capacità portante trasversale riferita al palo singolo:

Fattore di correlazione Psi scelto in base alla conoscenza del sito = 1.7
Coeff. parziale di sicurezza sulla resistenza trasversale = 1.3
Verifica condotta in combinazione SLU 49
Portanza trasversale di progetto = 12101.7
Sforzo trasversale di progetto = 1969.3
Coefficiente di sicurezza = 6.15 > 1

PARAMETRI UTILIZZATI NEL CALCOLO
Geometria:
Palo a testa incastrata
Lunghezza del tratto infisso nel terreno = 700
Larghezza del fronte di spinta = 60
Dati del suolo:
Calcolo condotto per la condizione drenata e terreno incoerente
Angolo di attrito interno di progetto (deg) = 20
Peso specifico del terreno di progetto = 0.0016
Sforzo trasversale massimo al collasso = 26745
Meccanismo di collasso come palo lungo (doppia cerniera)
Momento di plasticizzazione della cerniera plastica superiore = 2725824
a quota attacco fondazione
con sforzo normale di calcolo = -13209
Momento di plasticizzazione della cerniera plastica inferiore = 2651984
a quota = -550
con sforzo normale di calcolo = -7529

Verifica di resistenza allo stato limite:

quota	Af	cop.	c.s.	Mx	My	N	comb
-130	29.2	3.70	3.87	-1.524E+05	-7.454E+05	-7.736E+03	9SLV fond
-210	29.2	3.70	3.21	-2.633E+05	-8.644E+05	-8.301E+03	9SLV fond
-290	29.2	3.70	3.48	-2.584E+05	-7.688E+05	-5.890E+03	9SLV fond
-370	29.2	3.70	4.18	-2.414E+05	-6.509E+05	-6.456E+03	9SLV fond
-450	29.2	3.70	5.31	-1.939E+05	-4.975E+05	-4.088E+03	9SLV fond
-530	29.2	3.70	8.63	-1.344E+05	-3.303E+05	-4.653E+03	9SLV fond

-610	29.2	3.70	14.44	-8.061E+04	-1.907E+05	-2.316E+03	9SLV fond	
-690	29.2	3.70	44.46	-3.194E+04	-7.556E+04	-2.882E+03	9SLV fond	
-770	29.2	3.70	100.00	1.0004E-10	0.0000E+00	-9.482E+02	49SLU	

Verifica di esercizio (combinazione rara):

quota	Af	cop.	sigmaf	sigmac	Mx	My	N	comb	Wk	comb
-130	29.2	3.70		9.6	-1.528E+05	1.4618E-06	-9.431E+03	10	0.000	1
-130	29.2	3.70	130.8		4.9888E+04	8.7906E+04	-2.340E+03	3	0.000	1
-210	29.2	3.70	225.9	17.0	-2.639E+05	1.7043E-06	-9.996E+03	10	0.000	1
-290	29.2	3.70	297.0	17.0	-2.590E+05	1.5182E-06	-7.183E+03	10	0.000	1
-370	29.2	3.70	246.4	15.8	-2.420E+05	1.2877E-06	-7.749E+03	10	0.000	1
-450	29.2	3.70	235.6	12.8	-1.943E+05	9.8527E-07	-4.988E+03	10	0.000	1
-530	29.2	3.70	103.9	8.6	-1.347E+05	6.5463E-07	-5.554E+03	10	0.000	1
-610	29.2	3.70	75.4	5.2	-8.080E+04	3.7830E-07	-2.830E+03	10	0.000	1
-690	29.2	3.70		2.3	-3.201E+04	1.4989E-07	-3.396E+03	10	0.000	1
-690	29.2	3.70	1.5		1.0453E+04	8.9157E+03	-1.247E+03	3	0.000	1
-770	29.2	3.70		0.2	4.0017E-10	0.0000E+00	-6.948E+02	10	0.000	1

Verifica di esercizio (combinazione quasi permanente):

quota	Af	cop.	sigmaf	sigmac	Mx	My	N	comb	Wk	comb
-130	29.2	3.70	16.2	6.0	-9.136E+04	4.9239E-07	-7.449E+03	1	0.000	1
-210	29.2	3.70	89.1	10.0	-1.578E+05	5.7623E-07	-8.014E+03	1	0.000	1
-290	29.2	3.70	137.7	10.0	-1.548E+05	5.1391E-07	-5.671E+03	1	0.000	1
-370	29.2	3.70	105.2	9.2	-1.447E+05	4.3648E-07	-6.237E+03	1	0.000	1
-450	29.2	3.70	112.1	7.5	-1.162E+05	3.3419E-07	-3.936E+03	1	0.000	1
-530	29.2	3.70	38.2	5.1	-8.053E+04	2.2218E-07	-4.501E+03	1	0.000	1
-610	29.2	3.70	31.8	3.1	-4.831E+04	1.2847E-07	-2.229E+03	1	0.000	1
-690	29.2	3.70		1.6	-1.914E+04	5.0903E-08	-2.795E+03	1	0.000	1
-770	29.2	3.70		0.2	-4.129E-10	0.0000E+00	-5.415E+02	1	0.000	1

Verifica di esercizio (combinazione frequente):

quota	Af	cop.	Mx	My	N	comb	Wk
-130	29.2	3.70	-9.136E+04	4.9239E-07	-7.449E+03	1	0.000
-210	29.2	3.70	-1.578E+05	5.7623E-07	-8.014E+03	1	0.000
-290	29.2	3.70	-1.548E+05	5.1391E-07	-5.671E+03	1	0.000
-370	29.2	3.70	-1.447E+05	4.3648E-07	-6.237E+03	1	0.000
-450	29.2	3.70	-1.162E+05	3.3419E-07	-3.936E+03	1	0.000
-530	29.2	3.70	-8.053E+04	2.2218E-07	-4.501E+03	1	0.000
-610	29.2	3.70	-4.831E+04	1.2847E-07	-2.229E+03	1	0.000
-690	29.2	3.70	-1.914E+04	5.0903E-08	-2.795E+03	1	0.000
-770	29.2	3.70	-4.129E-10	0.0000E+00	-5.415E+02	1	0.000

Verifica a taglio:

quota	Ast	VEd	VEdx	VEdy	N	comb	VRd	VRcd	VRsd	
-130	0.20	2718	447	-2681	-8405	13SLV fond	9873	68895	32482	VEd < VRd
-210	0.20	2718	447	-2681	-8970	13SLV fond	9951	68895	32482	VEd < VRd
-290	0.11	1489	-1473	212	-5890	9SLV fond	9526	68895	18561	VEd < VRd
-370	0.11	1489	-1473	212	-6456	9SLV fond	9604	68895	18561	VEd < VRd
-450	0.11	2219	-2091	744	-4088	9SLV fond	9277	68895	18561	VEd < VRd
-530	0.11	2219	-2091	744	-4653	9SLV fond	9355	68895	18561	VEd < VRd
-610	0.11	1563	-1439	608	-2316	9SLV fond	9032	68895	18561	VEd < VRd
-690	0.11	1563	-1439	608	-2882	9SLV fond	9110	68895	18561	VEd < VRd
-770	0.11	0	0	0	-564	11SLV fond	8790	68895	18561	VEd < VRd

Pali di plinto su pali 6

Unità di misura: daN, cm
Metodo di calcolo: DM 14-01-08 Norme tecniche per le costruzioni

Caratteristiche dei materiali:

Calcestruzzo C25/30; Rck = 300
Acciaio B450C; fyk = 4500

Caratteristiche geometriche:

Quota di testa -130 cm
Quota di punta -830 cm
Diametro 60,0 cm

Palo al filo 6 alle coordinate X=2045 Y=1210

Sollecitazioni massime in testa palo:

Combinazione corrispondente alla minima compressione in testa

N	Mx	My	Tx	Ty	comb	
-2.407E+03	1.0995E+04	1.3168E+05	-2.634E+02	9.9951E+01	3	slu
-4.048E+03	-2.023E+04	8.7784E+04	-1.756E+02	-1.839E+02	3	ra

-6.134E+03 -5.405E+04 1.7551E+04 -3.510E+01 -4.914E+02 2   fr
-6.440E+03 -6.073E+04 -1.034E+01 2.0545E-02 -5.521E+02 1   qp
-5.350E+03 1.5975E+05 -2.238E+05 4.4696E+02 1.4523E+03 1   SLV fond

Combinazione corrispondente alla massima compressione in testa
         N   Mx   My   Tx   Ty comb
-9.892E+03 -1.169E+05 -3.012E+01 5.9738E-02 -1.063E+03 49   slu
-7.394E+03 -8.459E+04 -2.079E+01 4.1243E-02 -7.690E+02 10   ra
-6.631E+03 -6.550E+04 -1.243E+01 2.4685E-02 -5.955E+02 4   fr
-6.440E+03 -6.073E+04 -1.034E+01 2.0545E-02 -5.521E+02 1   qp
-7.530E+03 -2.812E+05 2.2335E+05 -4.460E+02 -2.556E+03 15   SLV fond

Combinazione corrispondente al massimo taglio in testa
         N   Mx   My   Tx   Ty comb
-9.892E+03 -1.169E+05 -3.012E+01 5.9738E-02 -1.063E+03 49   slu
-7.394E+03 -8.459E+04 -2.079E+01 4.1243E-02 -7.690E+02 10   ra
-6.631E+03 -6.550E+04 -1.243E+01 2.4685E-02 -5.955E+02 4   fr
-6.440E+03 -6.073E+04 -1.034E+01 2.0545E-02 -5.521E+02 1   qp
-7.530E+03 -2.812E+05 2.2335E+05 -4.460E+02 -2.556E+03 15   SLV fond

Verifica di capacità portante verticale riferita al palo singolo:

Fattore di correlazione Psi scelto in base alla conoscenza del sito = 1.7
Coeff. parziale di sicurezza sulla resistenza laterale = 1.15
Coeff. parziale di sicurezza sulla resistenza alla punta = 1.35
Portanza laterale di progetto = 9079.3
Portanza di punta di progetto = 12320
verifica condotta in combinazione SLU 49 per la condizione a breve termine
Sforzo normale   = -9892.1
Peso del palo   = 4948 * 1.3
Carico totale di progetto = -16324.5
Resistenza totale di progetto = 21399.2
Coefficiente di sicurezza = 1.31 > 1

Verifica di capacità portante trasversale riferita al palo singolo:

Fattore di correlazione Psi scelto in base alla conoscenza del sito = 1.7
Coeff. parziale di sicurezza sulla resistenza trasversale = 1.3
Verifica condotta in combinazione SLU 49
Portanza trasversale di progetto = 12013.5
Sforzo trasversale di progetto   = 1063
Coefficiente di sicurezza = 11.3 > 1

PARAMETRI UTILIZZATI NEL CALCOLO
Geometria:
Palo a testa incastrata
Lunghezza del tratto infisso nel terreno = 700
Larghezza del fronte di spinta = 60
Dati del suolo:
Calcolo condotto per la condizione drenata e terreno incoerente
Angolo di attrito interno di progetto (deg) = 20
Peso specifico del terreno di progetto = 0.0016
Sforzo trasversale massimo al collasso = 26550
Meccanismo di collasso come palo lungo (doppia cerniera)
Momento di plasticizzazione della cerniera plastica superiore = 2687484
a quota attacco fondazione
con sforzo normale di calcolo = -10260
Momento di plasticizzazione della cerniera plastica inferiore = 2631624
a quota = -549.8
con sforzo normale di calcolo = -5962

Verifica di resistenza allo stato limite:

quota   Af cop.   c.s.   Mx   My   N comb
 -130 29.2 3.70   3.74 -2.273E+05 7.4458E+05 -7.317E+03 11SLV fond
 -210 29.2 3.70   3.02 -3.927E+05 8.6353E+05 -7.883E+03 11SLV fond
 -290 29.2 3.70   3.25 -3.853E+05 7.6797E+05 -5.571E+03 11SLV fond
 -370 29.2 3.70   3.85 -3.601E+05 6.5022E+05 -6.137E+03 11SLV fond
 -450 29.2 3.70   4.87 -2.892E+05 4.9701E+05 -3.866E+03 11SLV fond
 -530 29.2 3.70   7.78 -2.004E+05 3.2993E+05 -4.431E+03 11SLV fond
 -610 29.2 3.70 12.98 -1.202E+05 1.9050E+05 -2.190E+03 11SLV fond
 -690 29.2 3.70 40.97 -4.763E+04 7.5481E+04 -2.755E+03 11SLV fond
 -770 29.2 3.70 100.00 -9.186E-11 4.7629E-14 -7.202E+02 49SLU

Verifica di esercizio (combinazione rara):

quota   Af   cop. sigmaf   sigmac   Mx   My   N comb   Wk comb
 -130 29.2   3.70   6.0 -3.929E+04 8.7753E+04 -5.385E+03 6   0.000 1

 -130 29.2   3.70   61.7   -2.023E+04 8.7784E+04 -4.048E+03 3   0.000 1
 -210 29.2   3.70   9.2 -1.461E+05 -2.409E+01 -7.959E+03 10   0.000 1

 -210 29.2   3.70   82.2   -5.553E+04 1.0182E+05 -5.091E+03 7   0.000 1
 -290 29.2   3.70   117.6   9.2 -1.434E+05 -2.142E+01 -5.630E+03 10   0.000 1
 -370 29.2   3.70   88.0   8.5 -1.340E+05 -1.813E+01 -6.195E+03 10   0.000 1
 -450 29.2   3.70   96.6   6.9 -1.076E+05 -1.385E+01 -3.907E+03 10   0.000 1
 -530 29.2   3.70   30.6   4.7 -7.456E+04 -9.195E+00 -4.472E+03 10   0.000 1
 -610 29.2   3.70   26.4   2.8 -4.473E+04 -5.309E+00 -2.213E+03 10   0.000 1
 -690 29.2   3.70   1.5 -1.772E+04 -2.103E+00 -2.778E+03 10   0.000 1

 -770 29.2   3.70   0.2 -7.030E-10 1.5210E-14 -5.373E+02 10   0.000 1

Verifica di esercizio (combinazione quasi permanente):

quota	Af	cop.	sigmaf	sigmac	Mx	My	N	comb	Wk	comb
-130	29.2	3.70	1.2	4.3	-6.073E+04	-1.034E+01	-6.440E+03	1	0.000	1
-210	29.2	3.70	33.7	6.6	-1.049E+05	-1.199E+01	-7.006E+03	1	0.000	1
-290	29.2	3.70	64.6	6.5	-1.029E+05	-1.066E+01	-4.902E+03	1	0.000	1
-370	29.2	3.70	44.1	6.0	-9.619E+04	-9.022E+00	-5.468E+03	1	0.000	1
-450	29.2	3.70	54.5	4.9	-7.724E+04	-6.895E+00	-3.400E+03	1	0.000	1
-530	29.2	3.70	13.0	3.4	-5.353E+04	-4.577E+00	-3.966E+03	1	0.000	1
-610	29.2	3.70	13.2	2.0	-3.211E+04	-2.642E+00	-1.924E+03	1	0.000	1
-690	29.2	3.70		1.3	-1.272E+04	-1.047E+00	-2.489E+03	1	0.000	1
-770	29.2	3.70		0.1	1.2005E-10	9.9644E-15	-4.636E+02	1	0.000	1

Verifica di esercizio (combinazione frequente):

quota	Af	cop.	Mx	My	N	comb	Wk
-130	29.2	3.70	-6.073E+04	-1.034E+01	-6.440E+03	1	0.000
-210	29.2	3.70	-1.049E+05	-1.199E+01	-7.006E+03	1	0.000
-290	29.2	3.70	-1.029E+05	-1.066E+01	-4.902E+03	1	0.000
-370	29.2	3.70	-9.619E+04	-9.022E+00	-5.468E+03	1	0.000
-450	29.2	3.70	-7.724E+04	-6.895E+00	-3.400E+03	1	0.000
-530	29.2	3.70	-5.353E+04	-4.577E+00	-3.966E+03	1	0.000
-610	29.2	3.70	-3.211E+04	-2.642E+00	-1.924E+03	1	0.000
-690	29.2	3.70	-1.272E+04	-1.047E+00	-2.489E+03	1	0.000
-770	29.2	3.70	1.2005E-10	9.9644E-15	-4.636E+02	1	0.000

Verifica a taglio:

quota	Ast	VEd	VEdx	VEdy	N	comb	VRd	VRcd	VRsd	
-130	0.20	2595	-446	-2556	-7530	15SLV fond	9752	68895	32482	VEd < VRd
-210	0.20	2595	-446	-2556	-8095	15SLV fond	9831	68895	32482	VEd < VRd
-290	0.11	1505	1472	315	-5571	11SLV fond	9482	68895	18561	VEd < VRd
-370	0.11	1505	1472	315	-6137	11SLV fond	9560	68895	18561	VEd < VRd
-450	0.11	2365	2089	1110	-3866	11SLV fond	9246	68895	18561	VEd < VRd
-530	0.11	2365	2089	1110	-4431	11SLV fond	9324	68895	18561	VEd < VRd
-610	0.11	1700	1438	907	-2190	11SLV fond	9015	68895	18561	VEd < VRd
-690	0.11	1700	1438	907	-2755	11SLV fond	9093	68895	18561	VEd < VRd
-770	0.11	0	0	0	-396	5SLV fond	8767	68895	18561	VEd < VRd

48 Verifiche plinti su pali

fcd: resistenza a compressione di calcolo cilindrica del calcestruzzo
fyd: resistenza di calcolo dell'acciaio
n.palo: numero di palo
xp, yp: coordinate dell'asse del palo rispetto al baricentro del plinto
comb.: combinazione
Np: forza assiale sul palo
Pp: peso proprio del plinto
T: forza di trazione sulle barre
af: area di armatura tesa
aft: area di armatura complessiva
Nu: sforzo normale resistente ultimo
C: forza di compressione sul puntone di calcestruzzo
ac: area del puntone di calcestruzzo
sc: tensione sul calcestruzzo
Npu: sforzo di calcolo per punzonamento
sf: tensione di trazione in esercizio sulle armature
sc: tensione di compressione in esercizio sul calcestruzzo
b: base della sezione
h: altezza della sezione
a'f: area di armatura compressa
Msd: momento flettente di calcolo
Nsd: sforzo normale di calcolo
Mu: momento flettente resistente ultimo
Vsd: taglio di calcolo
Vrd1: taglio resistente ultimo in assenza di armatura al taglio
Mxu: momento Mx flettente resistente ultimo
Myu: momento My flettente resistente ultimo
wk: ampiezza delle fessure
srm: distanza media fra le fessure

Plinto su pali 1

Valori espressi in daN, cm.
Metodo di calcolo: stati limite D.M.14-01-2008
Calcestruzzo C25/30; Rck = 300
Acciaio B450C; fyk = 4500

Tipo n. 1 a base quadrata con 1 palo
diametro pali 60 ricopr.pali 30 spessore 100
Copriferro per la suola 5 copriferro per il bicchiere 3 dim. pilastro lungo X 21.9 dim. pilastro lungo Y 21.9
Rotazione in pianta rispetto al pilastro 0° 0' 0''

Classe di esposizione per la suola: X0 (Condizioni ordinarie)
fcd= 141.1 fyd= 3913
Peso proprio del plinto 3600

Coordinate dei pali rispetto al filo d'inserimento:

n.palo	xp	yp
1	0	0

Carichi trasmessi ai pali: valori ultimi

comb.	N palo1
1	-6676
2	-3616
3	-1712
4	-3502
5	-1666
6	-4537
7	-2633
8	-4423
9	-2587
10	-8517
11	-6682
12	-6613
13	-4777
14	-7548
15	-4489
16	-2584
17	-4374
18	-2539
19	-5410
20	-3505
21	-5295
22	-3460
23	-9390
24	-7554
25	-7486
26	-5650
27	-8679
28	-5619
29	-3715
30	-5504
31	-3669
32	-6540
33	-4635
34	-6425
35	-4590
36	-10520
37	-8684
38	-8616
39	-6780
40	-9551
41	-6492
42	-4587
43	-6377
44	-4541
45	-7412
46	-5508
47	-7298
48	-5462
49	-11393
50	-9557
51	-9488
52	-7653
53	-8090
54	-8090
55	-8223
56	-8223
57	-7305
58	-7305
59	-7749
60	-7749
61	-6766
62	-6766
63	-7210
64	-7210
65	-6292
66	-6292
67	-6425
68	-6425

Compressione max Np=   -11393 nella combinazione n.49 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio rare

comb.	N palo1
1	-7258
2	-5218
3	-3948
4	-5142
5	-3918
6	-5832
7	-4562
8	-5755
9	-4532
10	-8485
11	-7261

```
  12       -7216
  13       -5992
_____________________

Compressione max  Np=    -8485 nella combinazione SLE rara n.10  sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio frequenti
_____________________
comb.   N palo1
   1       -7258
   2       -6850
   3       -6834
   4       -7503
_____________________

Compressione max  Np=    -7503 nella combinazione SLE frequente n.4  sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio quasi-permanenti
_____________________
comb.   N palo1
   1       -7258
_____________________

Compressione max  Np=    -7258 nella combinazione SLE quasi perm. n.1  sul palo n. 1


Verifiche ultime delle bielle tese e compresse
tiranti in acciaio:
quota di peso proprio per il singolo palo Pp=    4680
carico max di verifica sui pali Np=  -11393
af= 10.1  (5d16)      trazione di calcolo     T=       0 <  Nu =   39338 nella combinazione SLU n.49
puntone in cls:
ac=   3600    compressione C=       0 <  Nu =  507960 nella combinazione SLU n.49

Verifiche a punzonamento:

Verifica a punzonamento per il pilastro.
  Verifica lungo la faccia del pilastro (combinazione SLVf n.16)
    Perimetro uo = 87.64 cm
    Altezza utile do = 95 cm

    Viene utilizzato il coefficiente Beta introdotto dall'utente.
    Beta = 1.15

    Carico punzonanante = 0 daN

    vEd(6.53) = 0 daN/cm²    vRd,max(§6.4.5) = 28.22 daN/cm²
    vEd <= vRd,max Verifica soddisfatta.

  Verifica lungo il perimetro di base (combinazione SLVf n.16)
    Perimetro u = 395.8 cm a distanza a =  49.05 cm    Altezza utile d = 95 cm

    Viene utilizzato il coefficiente Beta introdotto dall'utente.
    Beta = 1.15

    Carico punzonanante = 0 daN

    Area di acciaio totale per punzonamento     = 0 cm²   2*(afp,x = 0 cm² ; afp,y = 0 cm²)
    Area di acciaio necessaria per punzonamento = 0 cm²

    vEd(6.38) = 0 daN/cm²   vRd,c(6.47) = 3.08 daN/cm²   vRd,cs(6.52) = ---
    vEd <= vRd     Armatura a punzonamento non necessaria. Verifica soddisfatta.

Verifica a punzonamento per il palo.
  Verifica lungo la faccia del palo (combinazione SLU n.49)
    Perimetro uo = 167.12 cm
    Altezza utile do = 95 cm

    Valore di beta per palo di angolo.
    Beta = 1.5

    Carico punzonanante = 0 daN

    vEd(6.38) = 0 daN/cm²    vRd,max(§6.4.5) = 28.22 daN/cm²
    vEd <= vRd,max  Verifica soddisfatta.

  Verifica lungo il perimetro di base (combinazione SLU n.49)
    Perimetro u = 465.58 cm a distanza a =  190 cm    Altezza utile d = 95 cm

    Il palo non effettua punzonamento sul perimetro di verifica.

   vEd(6.38) = 0 daN/cm²   vRd,c(6.47) = 3.08 daN/cm²   vRd,cs(6.52) = ---    vEd <= vRd,c
    Armatura a punzonamento non necessaria. Verifica soddisfatta.


Verifiche delle tensioni in esercizio: condizioni rare
puntone in calcestruzzo:  sc=     0 < 149.4 nella combinazione SLE rara n.10
tiranti in acciaio     :  sf=     0 <  3600 nella combinazione SLE rara n.10

Verifiche delle tensioni in esercizio: condizioni quasi permanenti
puntone in calcestruzzo:  sc=     0 < 112.1 nella combinazione SLE quasi perm. n.1
tiranti in acciaio     :  sf=     0 <  3600 nella combinazione SLE quasi perm. n.1
```

Plinto su pali 2

Valori espressi in daN, cm.
Metodo di calcolo: stati limite D.M.14-01-2008

Calcestruzzo C25/30; Rck = 300
Acciaio B450C; fyk = 4500

Tipo n. 1 a base quadrata con 1 palo
diametro pali 60 ricopr.pali 30 spessore 100
Copriferro per la suola 5 copriferro per il bicchiere 3 dim. pilastro lungo X 21.9 dim. pilastro lungo Y 21.9
Rotazione in pianta rispetto al pilastro 0° 0' 0''
Classe di esposizione per la suola: X0 (Condizioni ordinarie)
fcd= 141.1 fyd= 3913
Peso proprio del plinto 3600

Coordinate dei pali rispetto al filo d'inserimento:

n.palo	xp	yp
1	0	0

Carichi trasmessi ai pali: valori ultimi

comb.	N palo1
1	-7255
2	-1325
3	2282
4	-1243
5	2315
6	-3113
7	494
8	-3031
9	527
10	-10831
11	-7273
12	-7224
13	-3666
14	-8949
15	-3019
16	588
17	-2937
18	621
19	-4807
20	-1200
21	-4725
22	-1167
23	-12525
24	-8967
25	-8918
26	-5360
27	-9431
28	-3502
29	106
30	-3419
31	139
32	-5290
33	-1682
34	-5207
35	-1649
36	-13007
37	-9450
38	-9400
39	-5842
40	-11126
41	-5196
42	-1589
43	-5114
44	-1556
45	-6984
46	-3377
47	-6902
48	-3344
49	-14702
50	-11144
51	-11094
52	-7537
53	-9360
54	-9360
55	-9360
56	-9360
57	-8677
58	-8677
59	-8677
60	-8677
61	-8092
62	-8092
63	-8092
64	-8092
65	-7409
66	-7409
67	-7409
68	-7409

Compressione max Np= -14702 nella combinazione n.49 sul palo n. 1
Trazione max Np= 2315 nella combinazione n.5 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio rare

comb.	N palo1
1	-8384
2	-4431
3	-2026

4	-4376
5	-2004
6	-5623
7	-3218
8	-5568
9	-3196
10	-10768
11	-8397
12	-8364
13	-5992

Compressione max Np= -10768 nella combinazione SLE rara n.10 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio frequenti

comb.	N palo1
1	-8384
2	-7594
3	-7583
4	-8861

Compressione max Np= -8861 nella combinazione SLE frequente n.4 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio quasi-permanenti

comb.	N palo1
1	-8384

Compressione max Np= -8384 nella combinazione SLE quasi perm. n.1 sul palo n. 1

Verifiche ultime delle bielle tese e compresse
tiranti in acciaio:
quota di peso proprio per il singolo palo Pp= 4680
carico max di verifica sui pali Np= -14702
af= 10.1 (5d16) trazione di calcolo T= 0 < Nu = 39338 nella combinazione SLU n.49
puntone in cls:
ac= 3600 compressione C= 0 < Nu = 507960 nella combinazione SLU n.49

Verifiche a punzonamento:

Verifica a punzonamento per il pilastro.
Verifica lungo la faccia del pilastro (combinazione SLVf n.16)
Perimetro uo = 87.64 cm
Altezza utile do = 95 cm

Viene utilizzato il coefficiente Beta introdotto dall'utente.
Beta = 1.15

Carico punzonanante = 0 daN

vEd(6.53) = 0 daN/cm² vRd,max(§6.4.5) = 28.22 daN/cm²
vEd <= vRd,max Verifica soddisfatta.

Verifica lungo il perimetro di base (combinazione SLVf n.16)
Perimetro u = 395.8 cm a distanza a = 49.05 cm Altezza utile d = 95 cm

Viene utilizzato il coefficiente Beta introdotto dall'utente.
Beta = 1.15

Carico punzonanante = 0 daN

Area di acciaio totale per punzonamento = 0 cm² 2*(afp,x = 0 cm² ; afp,y = 0 cm²)
Area di acciaio necessaria per punzonamento = 0 cm²

vEd(6.38) = 0 daN/cm² vRd,c(6.47) = 3.08 daN/cm² vRd,cs(6.52) = ---
vEd <= vRd Armatura a punzonamento non necessaria. Verifica soddisfatta.

Verifica a punzonamento per il palo.
Verifica lungo la faccia del palo (combinazione SLU n.49)
Perimetro uo = 167.12 cm
Altezza utile do = 95 cm

Valore di beta per palo di angolo.
Beta = 1.5

Carico punzonanante = 0 daN

vEd(6.38) = 0 daN/cm² vRd,max(§6.4.5) = 28.22 daN/cm²
vEd <= vRd,max Verifica soddisfatta.

Verifica lungo il perimetro di base (combinazione SLU n.49)
Perimetro u = 465.58 cm a distanza a = 190 cm Altezza utile d = 95 cm

Il palo non effettua punzonamento sul perimetro di verifica.

vEd(6.38) = 0 daN/cm² vRd,c(6.47) = 3.08 daN/cm² vRd,cs(6.52) = --- vEd <= vRd,c
Armatura a punzonamento non necessaria. Verifica soddisfatta.

Verifiche delle tensioni in esercizio: condizioni rare
puntone in calcestruzzo: sc= 0 < 149.4 nella combinazione SLE rara n.10
tiranti in acciaio : sf= 0 < 3600 nella combinazione SLE rara n.10

Verifiche delle tensioni in esercizio: condizioni quasi permanenti
puntone in calcestruzzo: sc=   0 < 112.1 nella combinazione SLE quasi perm. n.1
tiranti in acciaio   : sf=   0 < 3600 nella combinazione SLE quasi perm. n.1

Plinto su pali 3
Valori espressi in daN, cm.
Metodo di calcolo: stati limite D.M.14-01-2008
Calcestruzzo C25/30; Rck = 300
Acciaio B450C; fyk = 4500

Tipo n. 1 a base quadrata con 1 palo
diametro pali   60   ricopr.pali   30   spessore   100
Copriferro per la suola   5   copriferro per il bicchiere   3   dim. pilastro lungo X   21.9   dim. pilastro lungo Y   21.9
Rotazione in pianta rispetto al pilastro   0° 0' 0''
Classe di esposizione per la suola: X0 (Condizioni ordinarie)
fcd= 141.1 fyd= 3913
Peso proprio del plinto 3600

Coordinate dei pali rispetto al filo d'inserimento:

n.palo	xp	yp
1	0	0

Carichi trasmessi ai pali: valori ultimi

comb.	N palo1
1	-6676
2	-3627
3	-1722
4	-3502
5	-1672
6	-4548
7	-2643
8	-4423
9	-2593
10	-8517
11	-6688
12	-6613
13	-4784
14	-7548
15	-4499
16	-2595
17	-4374
18	-2545
19	-5420
20	-3516
21	-5295
22	-3466
23	-9390
24	-7561
25	-7486
26	-5656
27	-8679
28	-5629
29	-3725
30	-5504
31	-3675
32	-6550
33	-4646
34	-6425
35	-4596
36	-10520
37	-8691
38	-8616
39	-6786
40	-9551
41	-6502
42	-4598
43	-6377
44	-4548
45	-7423
46	-5519
47	-7298
48	-5468
49	-11393
50	-9563
51	-9488
52	-7659
53	-8223
54	-8223
55	-8090
56	-8090
57	-7749
58	-7749
59	-7305
60	-7305
61	-7210
62	-7210
63	-6766
64	-6766
65	-6425
66	-6425
67	-6292
68	-6292

Compressione max Np=   -11393 nella combinazione n.49 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio rare

comb.	N palo1
1	-7258
2	-5225
3	-3955
4	-5142
5	-3922
6	-5839
7	-4569
8	-5755
9	-4536
10	-8485
11	-7266
12	-7216
13	-5996

Compressione max Np= -8485 nella combinazione SLE rara n.10 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio frequenti

comb.	N palo1
1	-7258
2	-6851
3	-6834
4	-7503

Compressione max Np= -7503 nella combinazione SLE frequente n.4 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio quasi-permanenti

comb.	N palo1
1	-7258

Compressione max Np= -7258 nella combinazione SLE quasi perm. n.1 sul palo n. 1

Verifiche ultime delle bielle tese e compresse
tiranti in acciaio:
quota di peso proprio per il singolo palo Pp= 4680
carico max di verifica sui pali Np= -11393
af= 10.1 (5d16) trazione di calcolo T= 0 < Nu = 39338 nella combinazione SLU n.49
puntone in cls:
ac= 3600 compressione C= 0 < Nu = 507960 nella combinazione SLU n.49

Verifiche a punzonamento:

Verifica a punzonamento per il pilastro.
Verifica lungo la faccia del pilastro (combinazione SLVf n.16)
Perimetro uo = 87.64 cm
Altezza utile do = 95 cm

Viene utilizzato il coefficiente Beta introdotto dall'utente.
Beta = 1.15

Carico punzonanante = 0 daN

vEd(6.53) = 0 daN/cm² vRd,max(§6.4.5) = 28.22 daN/cm²
vEd <= vRd,max Verifica soddisfatta.

Verifica lungo il perimetro di base (combinazione SLVf n.16)
Perimetro u = 395.8 cm a distanza a = 49.05 cm Altezza utile d = 95 cm

Viene utilizzato il coefficiente Beta introdotto dall'utente.
Beta = 1.15

Carico punzonanante = 0 daN

Area di acciaio totale per punzonamento = 0 cm² 2*(afp,x = 0 cm² ; afp,y = 0 cm²)
Area di acciaio necessaria per punzonamento = 0 cm²

vEd(6.38) = 0 daN/cm² vRd,c(6.47) = 3.08 daN/cm² vRd,cs(6.52) = ---
vEd <= vRd Armatura a punzonamento non necessaria. Verifica soddisfatta.

Verifica a punzonamento per il palo.
Verifica lungo la faccia del palo (combinazione SLU n.49)
Perimetro uo = 167.12 cm
Altezza utile do = 95 cm

Valore di beta per palo di angolo.
Beta = 1.5

Carico punzonanante = 0 daN

vEd(6.38) = 0 daN/cm² vRd,max(§6.4.5) = 28.22 daN/cm²
vEd <= vRd,max Verifica soddisfatta.

Verifica lungo il perimetro di base (combinazione SLU n.49)
Perimetro u = 465.58 cm a distanza a = 190 cm Altezza utile d = 95 cm

Il palo non effettua punzonamento sul perimetro di verifica.

vEd(6.38) = 0 daN/cm² vRd,c(6.47) = 3.08 daN/cm² vRd,cs(6.52) = --- vEd <= vRd,c

Armatura a punzonamento non necessaria. Verifica soddisfatta.

Verifiche delle tensioni in esercizio: condizioni rare
puntone in calcestruzzo: sc= 0 < 149.4 nella combinazione SLE rara n.10
tiranti in acciaio : sf= 0 < 3600 nella combinazione SLE rara n.10

Verifiche delle tensioni in esercizio: condizioni quasi permanenti
puntone in calcestruzzo: sc= 0 < 112.1 nella combinazione SLE quasi perm. n.1
tiranti in acciaio : sf= 0 < 3600 nella combinazione SLE quasi perm. n.1

Plinto su pali 4

Valori espressi in daN, cm.
Metodo di calcolo: stati limite D.M.14-01-2008
Calcestruzzo C25/30; Rck = 300
Acciaio B450C; fyk = 4500

Tipo n. 1 a base quadrata con 1 palo
diametro pali 60 ricopr.pali 30 spessore 100
Copriferro per la suola 5 copriferro per il bicchiere 3 dim. pilastro lungo X 21.9 dim. pilastro lungo Y 21.9
Rotazione in pianta rispetto al pilastro 0° 0' 0''
Classe di esposizione per la suola: X0 (Condizioni ordinarie)
fcd= 141.1 fyd= 3913
Peso proprio del plinto 3600

Coordinate dei pali rispetto al filo d'inserimento:

n.palo	xp	yp
1	0	0

Carichi trasmessi ai pali: valori ultimi

comb.	N palo1
1	-5995
2	-3612
3	-2322
4	-3846
5	-2416
6	-4327
7	-3038
8	-4561
9	-3131
10	-7425
11	-5996
12	-6136
13	-4706
14	-6663
15	-4281
16	-2991
17	-4514
18	-3085
19	-4996
20	-3706
21	-5230
22	-3800
23	-8094
24	-6664
25	-6804
26	-5375
27	-7793
28	-5410
29	-4121
30	-5644
31	-4214
32	-6125
33	-4836
34	-6359
35	-4930
36	-9223
37	-7794
38	-7934
39	-6504
40	-8462
41	-6079
42	-4789
43	-6313
44	-4883
45	-6794
46	-5505
47	-7028
48	-5598
49	-9892
50	-8463
51	-8603
52	-7173
53	-5713
54	-5713
55	-5351
56	-5351
57	-6772
58	-6772
59	-5563
60	-5563
61	-7317
62	-7317
63	-6108

64	-6108
65	-7530
66	-7530
67	-7167
68	-7167

Compressione max Np= -9892 nella combinazione n.49 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio rare

comb.	N palo1
1	-6440
2	-4852
3	-3992
4	-5008
5	-4055
6	-5329
7	-4469
8	-5485
9	-4531
10	-7394
11	-6441
12	-6535
13	-5581

Compressione max Np= -7394 nella combinazione SLE rara n.10 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio frequenti

comb.	N palo1
1	-6440
2	-6123
3	-6154
4	-6631

Compressione max Np= -6631 nella combinazione SLE frequente n.4 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio quasi-permanenti

comb.	N palo1
1	-6440

Compressione max Np= -6440 nella combinazione SLE quasi perm. n.1 sul palo n. 1

Verifiche ultime delle bielle tese e compresse
tiranti in acciaio:
quota di peso proprio per il singolo palo Pp= 4680
carico max di verifica sui pali Np= -9892
af= 10.1 (5d16) trazione di calcolo T= 0 < Nu = 39338 nella combinazione SLU n.49
puntone in cls:
ac= 3600 compressione C= 0 < Nu = 507960 nella combinazione SLU n.49

Verifiche a punzonamento:

Verifica a punzonamento per il pilastro.
Verifica lungo la faccia del pilastro (combinazione SLVf n.16)
Perimetro uo = 87.64 cm
Altezza utile do = 95 cm

Viene utilizzato il coefficiente Beta introdotto dall'utente.
Beta = 1.15

Carico punzonanante = 0 daN

vEd(6.53) = 0 daN/cm² vRd,max(§6.4.5) = 28.22 daN/cm²
vEd <= vRd,max Verifica soddisfatta.

Verifica lungo il perimetro di base (combinazione SLVf n.16)
Perimetro u = 395.8 cm a distanza a = 49.05 cm Altezza utile d = 95 cm

Viene utilizzato il coefficiente Beta introdotto dall'utente.
Beta = 1.15

Carico punzonanante = 0 daN

Area di acciaio totale per punzonamento = 0 cm² 2*(afp,x = 0 cm² ; afp,y = 0 cm²)
Area di acciaio necessaria per punzonamento = 0 cm²

vEd(6.38) = 0 daN/cm² vRd,c(6.47) = 3.08 daN/cm² vRd,cs(6.52) = ---
vEd <= vRd Armatura a punzonamento non necessaria. Verifica soddisfatta.

Verifica a punzonamento per il palo.
Verifica lungo la faccia del palo (combinazione SLU n.49)
Perimetro uo = 167.12 cm
Altezza utile do = 95 cm

Valore di beta per palo di angolo.
Beta = 1.5

Carico punzonanante = 0 daN

vEd(6.38) = 0 daN/cm² vRd,max(§6.4.5) = 28.22 daN/cm²
vEd <= vRd,max Verifica soddisfatta.

Verifica lungo il perimetro di base (combinazione SLU n.49)
Perimetro u = 465.58 cm a distanza a = 190 cm Altezza utile d = 95 cm

Il palo non effettua punzonamento sul perimetro di verifica.

vEd(6.38) = 0 daN/cm² vRd,c(6.47) = 3.08 daN/cm² vRd,cs(6.52) = --- vEd <= vRd,c
Armatura a punzonamento non necessaria. Verifica soddisfatta.

Verifiche delle tensioni in esercizio: condizioni rare
puntone in calcestruzzo: sc= 0 < 149.4 nella combinazione SLE rara n.10
tiranti in acciaio : sf= 0 < 3600 nella combinazione SLE rara n.10

Verifiche delle tensioni in esercizio: condizioni quasi permanenti
puntone in calcestruzzo: sc= 0 < 112.1 nella combinazione SLE quasi perm. n.1
tiranti in acciaio : sf= 0 < 3600 nella combinazione SLE quasi perm. n.1

Plinto su pali 5

Valori espressi in daN, cm.
Metodo di calcolo: stati limite D.M.14-01-2008
Calcestruzzo C25/30; Rck = 300
Acciaio B450C; fyk = 4500

Tipo n. 1 a base quadrata con 1 palo
diametro pali 60 ricopr.pali 30 spessore 100
Copriferro per la suola 5 copriferro per il bicchiere 3 dim. pilastro lungo X 21.9 dim. pilastro lungo Y 21.9
Rotazione in pianta rispetto al pilastro 0° 0' 0''
Classe di esposizione per la suola: X0 (Condizioni ordinarie)
fcd= 141.1 fyd= 3913
Peso proprio del plinto 3600

Coordinate dei pali rispetto al filo d'inserimento:

n.palo	xp	yp
1	0	0

Carichi trasmessi ai pali: valori ultimi

comb.	N palo1
1	-6521
2	-1652
3	1142
4	-1864
5	1057
6	-3139
7	-345
8	-3350
9	-429
10	-9494
11	-6573
12	-6700
13	-3779
14	-7912
15	-3043
16	-249
17	-3255
18	-334
19	-4530
20	-1736
21	-4742
22	-1820
23	-10885
24	-7964
25	-8091
26	-5170
27	-8478
28	-3609
29	-814
30	-3820
31	-899
32	-5095
33	-2301
34	-5307
35	-2386
36	-11451
37	-8529
38	-8657
39	-5735
40	-9869
41	-5000
42	-2206
43	-5211
44	-2290
45	-6486
46	-3692
47	-6698
48	-3777
49	-12842
50	-9920
51	-10047
52	-7126
53	-6493
54	-6493
55	-6493
56	-6493

57	-7162
58	-7162
59	-7162
60	-7162
61	-7736
62	-7736
63	-7736
64	-7736
65	-8405
66	-8405
67	-8405
68	-8405

Compressione max Np= -12842 nella combinazione n.49 sul palo n. 1
Trazione max Np= 1142 nella combinazione n.3 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio rare

comb.	N palo1
1	-7449
2	-4203
3	-2340
4	-4344
5	-2396
6	-5194
7	-3331
8	-5335
9	-3387
10	-9431
11	-7483
12	-7568
13	-5620

Compressione max Np= -9431 nella combinazione SLE rara n.10 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio frequenti

comb.	N palo1
1	-7449
2	-6799
3	-6828
4	-7845

Compressione max Np= -7845 nella combinazione SLE frequente n.4 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio quasi-permanenti

comb.	N palo1
1	-7449

Compressione max Np= -7449 nella combinazione SLE quasi perm. n.1 sul palo n. 1

Verifiche ultime delle bielle tese e compresse
tiranti in acciaio:
quota di peso proprio per il singolo palo Pp= 4680
carico max di verifica sui pali Np= -12842
af= 10.1 (5d16) trazione di calcolo T= 0 < Nu = 39338 nella combinazione SLU n.49
puntone in cls:
ac= 3600 compressione C= 0 < Nu = 507960 nella combinazione SLU n.49

Verifiche a punzonamento:

Verifica a punzonamento per il pilastro.
Verifica lungo la faccia del pilastro (combinazione SLVf n.16)
Perimetro uo = 87.64 cm
Altezza utile do = 95 cm

Viene utilizzato il coefficiente Beta introdotto dall'utente.
Beta = 1.15

Carico punzonanante = 0 daN

vEd(6.53) = 0 daN/cm² vRd,max(§6.4.5) = 28.22 daN/cm²
vEd <= vRd,max Verifica soddisfatta.

Verifica lungo il perimetro di base (combinazione SLVf n.16)
Perimetro u = 395.8 cm a distanza a = 49.05 cm Altezza utile d = 95 cm

Viene utilizzato il coefficiente Beta introdotto dall'utente.
Beta = 1.15

Carico punzonanante = 0 daN

Area di acciaio totale per punzonamento = 0 cm² 2*(afp,x = 0 cm² ; afp,y = 0 cm²)
Area di acciaio necessaria per punzonamento = 0 cm²

vEd(6.38) = 0 daN/cm² vRd,c(6.47) = 3.08 daN/cm² vRd,cs(6.52) = ---
vEd <= vRd Armatura a punzonamento non necessaria. Verifica soddisfatta.

Verifica a punzonamento per il palo.
Verifica lungo la faccia del palo (combinazione SLU n.49)
Perimetro uo = 167.12 cm
Altezza utile do = 95 cm

Valore di beta per palo di angolo.
Beta = 1.5

Carico punzonanante = 0 daN

vEd(6.38) = 0 daN/cm² vRd,max(§6.4.5) = 28.22 daN/cm²
vEd <= vRd,max Verifica soddisfatta.

Verifica lungo il perimetro di base (combinazione SLU n.49)
Perimetro u = 465.58 cm a distanza a = 190 cm Altezza utile d = 95 cm

Il palo non effettua punzonamento sul perimetro di verifica.

vEd(6.38) = 0 daN/cm² vRd,c(6.47) = 3.08 daN/cm² vRd,cs(6.52) = --- vEd <= vRd,c
Armatura a punzonamento non necessaria. Verifica soddisfatta.

Verifiche delle tensioni in esercizio: condizioni rare
puntone in calcestruzzo: sc= 0 < 149.4 nella combinazione SLE rara n.10
tiranti in acciaio : sf= 0 < 3600 nella combinazione SLE rara n.10

Verifiche delle tensioni in esercizio: condizioni quasi permanenti
puntone in calcestruzzo: sc= 0 < 112.1 nella combinazione SLE quasi perm. n.1
tiranti in acciaio : sf= 0 < 3600 nella combinazione SLE quasi perm. n.1

Plinto su pali 6

Valori espressi in daN, cm.
Metodo di calcolo: stati limite D.M.14-01-2008
Calcestruzzo C25/30; Rck = 300
Acciaio B450C; fyk = 4500

Tipo n. 1 a base quadrata con 1 palo
diametro pali 60 ricopr.pali 30 spessore 100
Copriferro per la suola 5 copriferro per il bicchiere 3 dim. pilastro lungo X 21.9 dim. pilastro lungo Y 21.9
Rotazione in pianta rispetto al pilastro 0° 0' 0''
Classe di esposizione per la suola: X0 (Condizioni ordinarie)
fcd= 141.1 fyd= 3913
Peso proprio del plinto 3600

Coordinate dei pali rispetto al filo d'inserimento:

n.palo	xp	yp
1	0	0

Carichi trasmessi ai pali: valori ultimi

comb.	N palo1
1	-5995
2	-3696
3	-2407
4	-3846
5	-2467
6	-4411
7	-3122
8	-4561
9	-3182
10	-7425
11	-6046
12	-6136
13	-4757
14	-6663
15	-4365
16	-3075
17	-4514
18	-3135
19	-5080
20	-3791
21	-5230
22	-3851
23	-8094
24	-6715
25	-6804
26	-5425
27	-7793
28	-5494
29	-4205
30	-5644
31	-4265
32	-6209
33	-4920
34	-6359
35	-4980
36	-9223
37	-7844
38	-7934
39	-6555
40	-8462
41	-6163
42	-4874
43	-6313
44	-4934
45	-6878
46	-5589
47	-7028
48	-5649

49	-9892
50	-8513
51	-8603
52	-7224
53	-5351
54	-5351
55	-5713
56	-5713
57	-5563
58	-5563
59	-6772
60	-6772
61	-6108
62	-6108
63	-7317
64	-7317
65	-7167
66	-7167
67	-7530
68	-7530

Compressione max Np= -9892 nella combinazione n.49 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio rare

comb.	N palo1
1	-6440
2	-4908
3	-4048
4	-5008
5	-4088
6	-5385
7	-4525
8	-5485
9	-4565
10	-7394
11	-6475
12	-6535
13	-5615

Compressione max Np= -7394 nella combinazione SLE rara n.10 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio frequenti

comb.	N palo1
1	-6440
2	-6134
3	-6154
4	-6631

Compressione max Np= -6631 nella combinazione SLE frequente n.4 sul palo n. 1

Carichi trasmessi ai pali: condizioni in esercizio quasi-permanenti

comb.	N palo1
1	-6440

Compressione max Np= -6440 nella combinazione SLE quasi perm. n.1 sul palo n. 1

Verifiche ultime delle bielle tese e compresse
tiranti in acciaio:
quota di peso proprio per il singolo palo Pp= 4680
carico max di verifica sui pali Np= -9892
af= 10.1 (5d16) trazione di calcolo T= 0 < Nu = 39338 nella combinazione SLU n.49
puntone in cls:
ac= 3600 compressione C= 0 < Nu = 507960 nella combinazione SLU n.49

Verifiche a punzonamento:

Verifica a punzonamento per il pilastro.
Verifica lungo la faccia del pilastro (combinazione SLVf n.16)
Perimetro uo = 87.64 cm
Altezza utile do = 95 cm

Viene utilizzato il coefficiente Beta introdotto dall'utente.
Beta = 1.15

Carico punzonanante = 0 daN

vEd(6.53) = 0 daN/cm² vRd,max(§6.4.5) = 28.22 daN/cm²
vEd <= vRd,max Verifica soddisfatta.

Verifica lungo il perimetro di base (combinazione SLVf n.16)
Perimetro u = 395.8 cm a distanza a = 49.05 cm Altezza utile d = 95 cm

Viene utilizzato il coefficiente Beta introdotto dall'utente.
Beta = 1.15

Carico punzonanante = 0 daN

Area di acciaio totale per punzonamento = 0 cm² 2*(afp,x = 0 cm² ; afp,y = 0 cm²)
Area di acciaio necessaria per punzonamento = 0 cm²

vEd(6.38) = 0 daN/cm² vRd,c(6.47) = 3.08 daN/cm² vRd,cs(6.52) = ---
vEd <= vRd Armatura a punzonamento non necessaria. Verifica soddisfatta.

Verifica a punzonamento per il palo.
Verifica lungo la faccia del palo (combinazione SLU n.49)
Perimetro uo = 167.12 cm
Altezza utile do = 95 cm

Valore di beta per palo di angolo.
Beta = 1.5

Carico punzonanante = 0 daN

vEd(6.38) = 0 daN/cm² vRd,max(§6.4.5) = 28.22 daN/cm²
vEd <= vRd,max Verifica soddisfatta.

Verifica lungo il perimetro di base (combinazione SLU n.49)
Perimetro u = 465.58 cm a distanza a = 190 cm Altezza utile d = 95 cm

Il palo non effettua punzonamento sul perimetro di verifica.

vEd(6.38) = 0 daN/cm² vRd,c(6.47) = 3.08 daN/cm² vRd,cs(6.52) = --- vEd <= vRd,c
Armatura a punzonamento non necessaria. Verifica soddisfatta.

Verifiche delle tensioni in esercizio: condizioni rare
puntone in calcestruzzo: sc= 0 < 149.4 nella combinazione SLE rara n.10
tiranti in acciaio : sf= 0 < 3600 nella combinazione SLE rara n.10

Verifiche delle tensioni in esercizio: condizioni quasi permanenti
puntone in calcestruzzo: sc= 0 < 112.1 nella combinazione SLE quasi perm. n.1
tiranti in acciaio : sf= 0 < 3600 nella combinazione SLE quasi perm. n.1