COMUNE DI MATERA

SETTORE OPERE PUBBLICHE

LAVORI DI COSTRUZIONE DEL II° LOTTO - XVII GRUPPO DI LOCULI AL CIMITERO IN CONTRADA PANTANELLO

PROGETTO ESECUTIVO

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TAVOLA	SCALA	DATA	AGGIORNAMENTO	ARCHIVIO	CAD
SB		Dicembre 2022			

RELAZIONE DI CALCOLO - BLOCCO A

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1 Normative

D.M. 17-01-18

Norme Tecniche per le Costruzioni

Circolare 7 21-01-19 C.S.LL.PP

Istruzioni per l'applicazione dell'Aggiornamento delle N.T.C. di cui al decreto ministeriale 17 gennaio 2018.

Eurocodici

EN 1995-1-1:2004 +AC:2006 + A1:2008 + A2:2014
ETA-03/0050
ETA-07/0086
ETA-08/0147

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 12.21
Produttore del software: Concrete
Concrete srl, via della Pieve, 19, 35121 PADOVA - Italy
http://www.concrete.it
Rivenditore: CARITO SILVIO - via Collodi, 33/5/7 - 75100 MATERA Tel. 0835/388382
Versione: 12.21
Identificatore licenza: SW-120767866
Intestatario della licenza: Comune di Matera - Via Aldo Moro, 32 - Matera
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

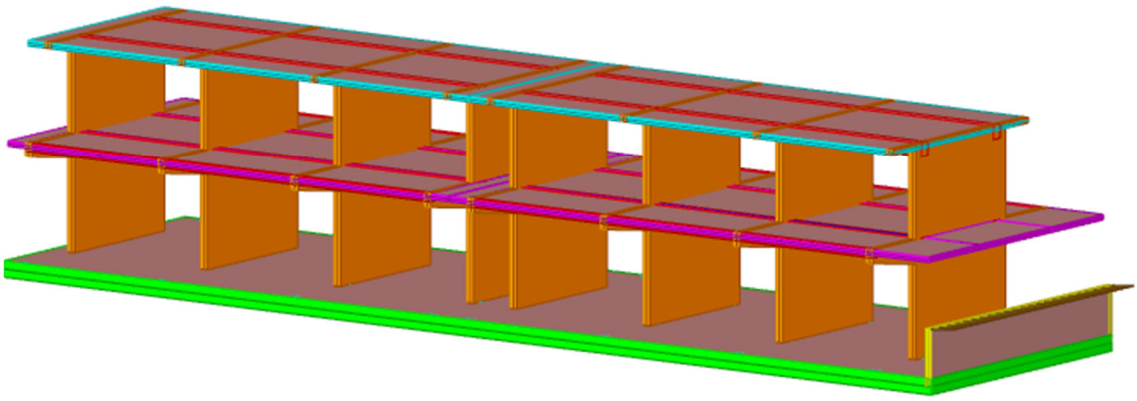
dell'elemento;
- il calcolo degli effetti del sisma è condotto, a scelta dell'utente, con analisi statica lineare, con analisi dinamica modale o con analisi statica non lineare, in accordo alle varie normative adottate. Le masse, nel caso di impalcati dichiarati rigidi sono concentrate nei nodi principali 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

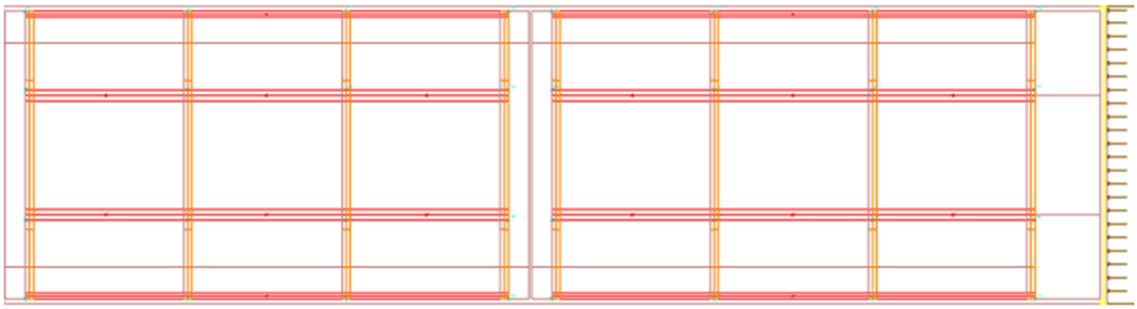
Nel caso più generale le verifiche degli elementi in c.a. possono essere condotte col metodo delle tensioni ammissibili (D.M. 14-1-92) o agli stati limite in accordo al D.M. 09-01-96, al D.M. 14-01-08, al D.M. 17-01-18 o secondo Eurocodice 2.
Le travi sono progettate e verificate a flessione retta e 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, al D.M. 17-01-18 vengono condotte verifiche di resistenza per i meccanismi fragili (nodi e taglio) e verifiche di deformabilità per i meccanismi duttili.

3 Descrizione hardware

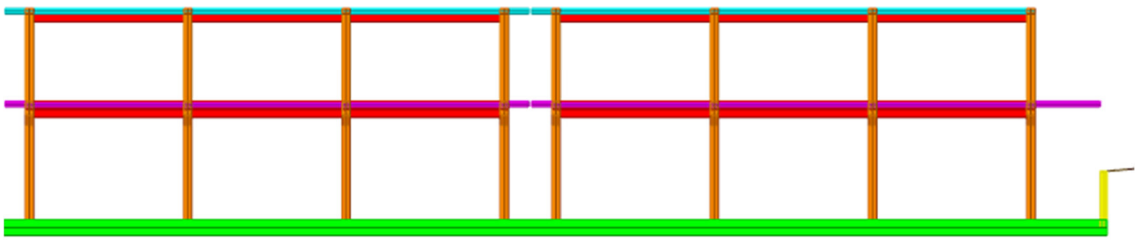
Processore	Intel(R) Core(TM) i5-10505 CPU @ 3.20GHz
Architettura	AMD64
Frequenza	3192 MHz
Memoria	15,72 GB
Sistema operativo	Microsoft Windows 11 Pro (64 bit)



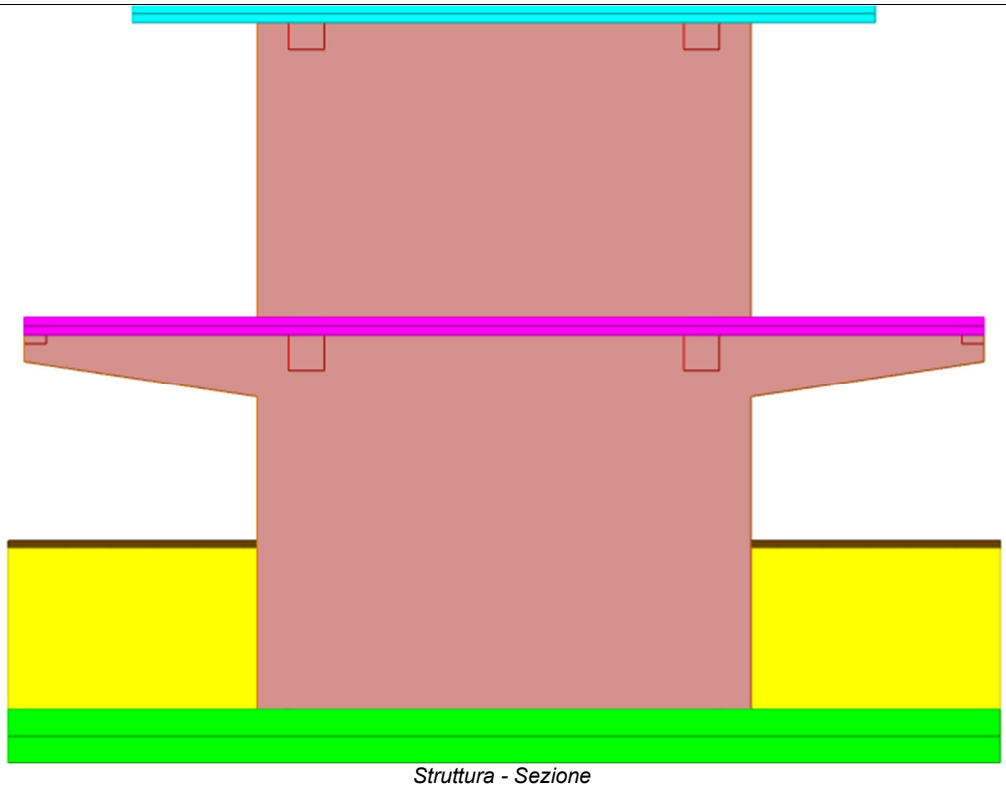
Struttura – Vista assonometrica



Struttura - Pianta



Struttura - Prospetto



Struttura - Sezione

4 Dati generali DB

4.1 Materiali

4.1.1 Materiali c.a.

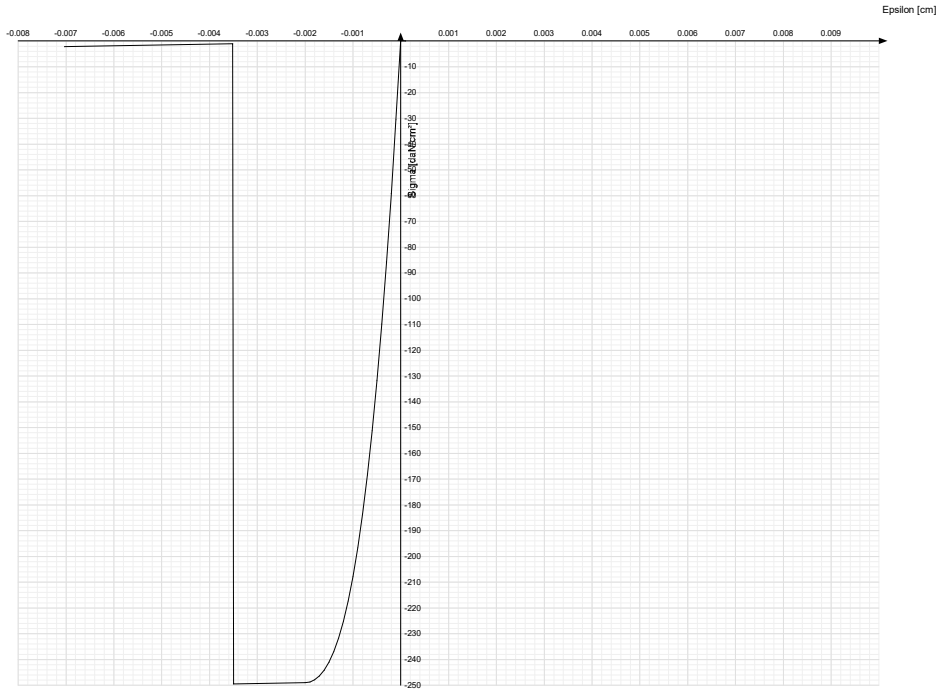
***Descrizione**: descrizione o nome assegnato all'elemento.*
***Rck**: resistenza caratteristica cubica; valore medio nel caso di edificio esistente. [daN/cm²]*
***E**: modulo di elasticità longitudinale del materiale per edifici o materiali nuovi. [daN/cm²]*
***G**: modulo di elasticità tangenziale del materiale, viene impiegato nella modellazione di aste e di elementi guscio a comportamento ortotropo. [daN/cm²]*
***v**: coefficiente di Poisson. Il valore è adimensionale.*
***γ**: peso specifico del materiale. [daN/cm³]*
***α**: coefficiente longitudinale di dilatazione termica. [°C-1]*

Descrizione	Rck	E	G	v	γ	α
C25/30	300	314472	Default (142941.64)	0.1	0.0025	0.00001
C32/40	400	336428	Default (152921.72)	0.1	0.0025	0.00001

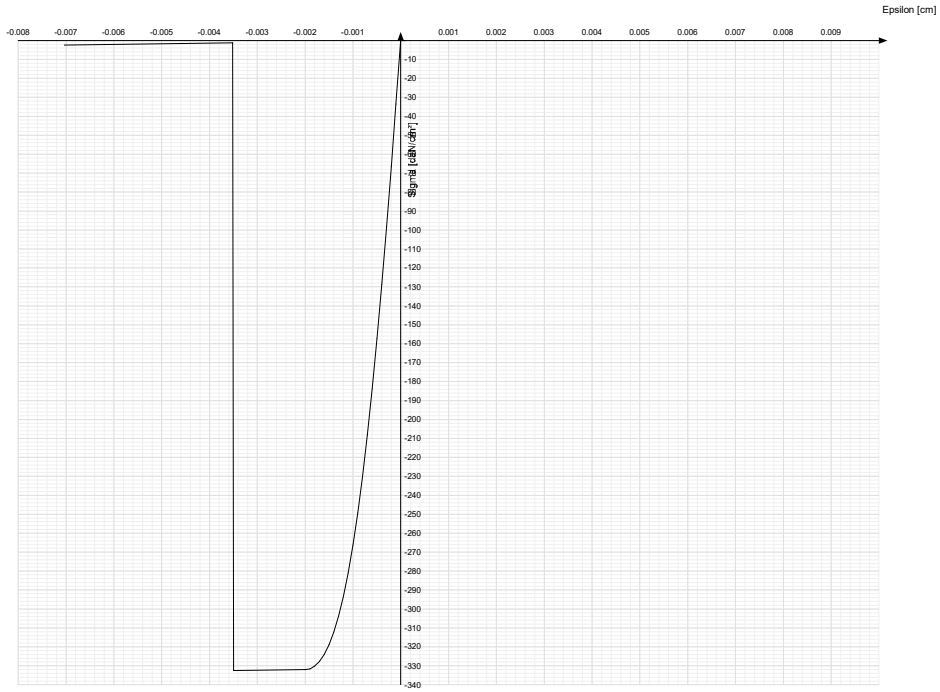
4.1.2 Curve di materiali c.a.

***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**: ε elastico a compressione. Il valore è adimensionale.*
***EpsUc**: ε 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**: ε elastico a trazione. Il valore è adimensionale.*
***EpsUt**: ε ultimo a trazione. Il valore è adimensionale.*

Descrizione	Curva									
	Reaz.traz.	Comp.frag.	E.compr.	Incr.compr.	EpsEc	EpsUc	E.traz.	Incr.traz.	EpsEt	EpsUt
C25/30	No	Si	314471.61	0.001	-0.002	-0.0035	314471.61	0.001	0.0000569	0.0000626



Descrizione	Curva									
	Reaz.traz.	Comp.frag.	E.compr.	Incr.compr.	EpsEc	EpsUc	E.traz.	Incr.traz.	EpsEt	EpsUt
C32/40	No	Si	336427.78	0.001	-0.002	-0.0035	336427.78	0.001	0.0000645	0.0000709



4.1.3 Armature

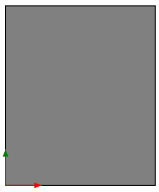
***Descrizione**: descrizione o nome assegnato all'elemento.*
***fyk**: resistenza caratteristica. [daN/cm²]*
***σamm.**: tensione ammissibile. [daN/cm²]*
***Tipo**: tipo di barra.*
***E**: modulo di elasticità longitudinale del materiale per edifici o materiali nuovi. [daN/cm²]*
***γ**: peso specifico del materiale. [daN/cm³]*
***v**: coefficiente di Poisson. Il valore è adimensionale.*
***α**: coefficiente longitudinale di dilatazione termica. [°C-1]*
***Livello di conoscenza**: indica se il materiale è nuovo o esistente, e in tal caso il livello di conoscenza secondo Circ.617 02/02/09 §C8A. Informazione impiegata solo in analisi D.M. 14-01-08 (N.T.C.) e D.M. 17-01-18 (N.T.C.).*

Descrizione	fyk	σamm.	Tipo	E	γ	v	α	Livello di conoscenza
B450C	4500	2550	Aderenza migliorata	2060000	0.00785	0.3	0.000012	Nuovo

4.2 Sezioni

4.2.1 Sezioni C.A.

4.2.1.1 Sezioni rettangolari C.A.



***Descrizione**: descrizione o nome assegnato all'elemento.*
***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]*
***H**: altezza della sezione. [cm]*
***B**: larghezza della sezione. [cm]*
***c.s.**: copriferro superiore della sezione. [cm]*
***c.i.**: copriferro inferiore della sezione. [cm]*
***c.l.**: copriferro laterale della sezione. [cm]*

Descrizione	Area Tx FEM	Area Ty FEM	JxFEM	JyFEM	JtFEM	H	B	c.s.	c.i.	c.l.
R 25x30	625	625	56250	39062.5	74218.75	30	25	3.5	3.5	3.5
R 40x60	2000	2000	720000	320000	742400	60	40	3.5	3.5	3.5
R 40x50	1666.67	1666.67	416666.67	266666.67	529066.67	50	40	3.5	3.5	3.5

4.2.1.2 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]*
***α**: 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	α	Area Tx FEM	Area Ty FEM	JxFEM	JyFEM	JtFEM
R 25x30	12.5	15	750	56250	3.9E4	0	56250	3.9E4	0	625	625	56250	39062.5	74218.75
R 40x60	20	30	2400	720000	320000	0	720000	320000	0	2000	2000	720000	320000	742400
R 40x50	20	25	2000	4.2E5	2.7E5	0	4.2E5	2.7E5	0	1666.67	1666.67	4.17E05	2.67E05	5.29E05

4.3 Terreni

***Descrizione**: descrizione o nome assegnato all'elemento.*
***Coesione**: coesione efficace del terreno. [daN/cm²]*
***Coesione non drenata**: coesione non drenata (Cu) del terreno, per terreni eminentemente coesivi. [daN/cm²]*
***Attrito interno**: angolo di attrito interno del terreno. [deg]*
***δ**: angolo di attrito all'interfaccia terreno-cls. [deg]*
***Coeff. α di adesione**: coeff. di adesione della coesione all'interfaccia terreno-cls, compreso tra 0 ed 1. Il valore è adimensionale.*
***Coeff. di spinta K0**: coefficiente di spinta a riposo del terreno. Il valore è adimensionale.*
***γ naturale**: peso specifico naturale del terreno in sito, assegnato alle zone non immerse. [daN/cm³]*
***γ saturo**: peso specifico saturo del terreno in sito, assegnato alle zone immerse. [daN/cm³]*
***E**: modulo elastico longitudinale del terreno. [daN/cm²]*
***v**: coefficiente di Poisson del terreno. Il valore è adimensionale.*
***Rqd**: rock quality degree. Per roccia assume valori nell'intervallo (0;1]. Il valore convenzionale 0 indica che si tratta di un terreno sciolto. Il valore è adimensionale.*
***Permeabilità Kh**: permeabilità orizzontale. Permeabilità orizzontale del terreno. [cm/s]*
***Permeabilità Kv**: permeabilità verticale. Permeabilità verticale del terreno. [cm/s]*

Descrizione	Coesione	Coesione non drenata	Attrito interno	δ	Coeff. α di adesione	Coeff. di spinta K0	γ naturale	γ saturo	E	v	Rqd	Permeabilità Kh	Permeabilità Kv
Argille limose cimitero	0.25	0.5	17	12	1	0.7	0.002	0.00215	680	0.4	0	0.1	0.01
Limi argillosi Cimitero	0.095	0.19	19	13	1	0.67	0.00195	0.002	600	0.4	0	0.1	0.01
Calcarenite di Gravina - Cimitero	0	0	35	23	1	0.43	0.00195	0.002	9110	0.35	1	0.00001	1.00E-6

5 Dati di definizione

5.1 Preferenze commessa

5.1.1 Preferenze di normativa

Analisi

Normativa	D.M. 17-01-18 (N.T.C.)	
Tipo di costruzione	2 - Costruzioni con livelli di prestazioni ordinari	
Vn	50	
Classe d'uso	II	
Vr	50	
Tipo di analisi	Lineare dinamica	
Considera sisma Z	Solo se Ag >= 0.15 g, conformemente a §3.2.3.1	
Località	Matera, La Vaglia; Latitudine ED50 40,6849° (40° 41' 6''); Longitudine ED50 16,5944° (16° 35' 40''); Altitudine s.l.m. 337,2 m.	
Categoria del suolo	B - Rocce tenere e depositi di terreni a grana grossa molto addensati o terreni a grana fina molto consistenti	
Categoria topografica	T1 - Superficie pianeggiante, pendii e rilievi isolati con inclinazione media i<=15°	
Ss orizzontale SLD	1.2	
Tb orizzontale SLD	0.143	[s]
Tc orizzontale SLD	0.428	[s]
Td orizzontale SLD	1.797	[s]
Ss orizzontale SLV	1.2	
Tb orizzontale SLV	0.159	[s]
Tc orizzontale SLV	0.478	[s]
Td orizzontale SLV	2.138	[s]
St	1	
PVr SLD (%)	63	
Tr SLD	50	
Ag/g SLD	0.0492	
Fo SLD	2.513	
Tc* SLD	0.307	[s]
PVr SLV (%)	10	
Tr SLV	475	
Ag/g SLV	0.1346	
Fo SLV	2.511	
Tc* SLV	0.352	[s]
Smorzamento viscoso (%)	5	
Classe di duttilità	CD"B"	
Rotazione del sisma	0	[deg]
Quota dello '0' sismico	0	[cm]
Regolarità in pianta	Si	
Regolarità in elevazione	No	
Edificio C.A.	Si	
Tipologia C.A.	Strutture miste equivalenti a pareti q0=3.0*αu/α1	
αu/α1 C.A.	Strutture a pareti accoppiate o miste equivalenti a pareti αu/α1=1.2	
Kw	0.8	
Edificio esistente	No	
Altezza costruzione	180	[cm]
T1,x	0.41835	[s]
T1,y	0.19432	[s]
λ SLD,x	1	
λ SLD,y	1	
λ SLV,x	1	
λ SLV,y	1	
Limite spostamenti interpiano SLD	0.005	
Fattore di comportamento per sisma SLD X	1.5	
Fattore di comportamento per sisma SLD Y	1.5	
Fattore di comportamento per sisma SLV X	2.3	
Fattore di comportamento per sisma SLV Y	2.3	
Coefficiente di sicurezza per carico limite (fondazioni superficiali)	2.3	
Coefficiente di sicurezza per 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	
Coefficiente di sicurezza per ribaltamento (plinti superficiali)	1.15	
Esegui verifiche in combinazioni SLD secondo Circolare 7	Si	

Verifiche C.A.

Normativa	D.M. 17-01-18 (N.T.C.)	
γs (fattore di sicurezza parziale per l'acciaio)	1.15	
γc (fattore di sicurezza parziale per il calcestruzzo)	1.5	
Limite σc/fck in combinazione rara	0.6	
Limite σc/fck in combinazione quasi permanente	0.45	
Limite σf/fyk in combinazione rara	0.8	
Coefficiente di riduzione della τ per cattiva aderenza	0.7	
Dimensione limite fessure w1 §4.1.2.2.4	0.02	[cm]
Dimensione limite fessure w2 §4.1.2.2.4	0.03	[cm]
Dimensione limite fessure w3 §4.1.2.2.4	0.04	[cm]
Fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q	Si	
Copriferro secondo EC2	Si	
αcc elementi nuovi nelle combinazioni sismiche	0.85	

αcc elementi esistenti	0.85

Verifiche legno

Normativa	D.M. 17-01-18 (N.T.C.)
γM combinazioni fondamentali massiccio	1.5
γM combinazioni fondamentali lamellare	1.45
γM combinazioni fondamentali unioni	1.5
γM combinazioni eccezionali	1
γM combinazioni esercizio	1
Kmod durata istantaneo, classe 1	1.1
Kmod durata istantaneo, classe 2	1.1
Kmod durata istantaneo, classe 3	0.9
Kmod durata breve, classe 1	0.9
Kmod durata breve, classe 2	0.9
Kmod durata breve, classe 3	0.7
Kmod durata media, classe 1	0.8
Kmod durata media, classe 2	0.8
Kmod durata media, classe 3	0.65
Kmod durata lunga, classe 1	0.7
Kmod durata lunga, classe 2	0.7
Kmod durata lunga, classe 3	0.55
Kmod durata permanente, classe 1	0.6
Kmod durata permanente, classe 2	0.6
Kmod durata permanente, classe 3	0.5
Kdef classe 1	0.6
Kdef classe 2	0.8
Kdef classe 3	2

Verifiche acciaio

Normativa	D.M. 17-01-18 (N.T.C.)
γm0	1.05
γm1	1.05
γm2	1.25
Coefficiente riduttivo per effetto vettoriale	0.7
Calcolo coefficienti C1, C2, C3 per Mcr	automatico
Coefficienti α, β per flessione deviata	unitari
Verifica semplificata conservativa	si
L/e0 iniziale per profili accoppiati compressi	500
Metodo semplificato formula (4.2.82)	si
Escludi § 6.2.6.7 EN 1993-1-8:2005 + AC:2009 in 7.5.4.3-7.5.4.5	si
Applica Nota 1 del prospetto 6.2	si
Riduzione fy per tubi tondi di classe 4	no
Limite spostamento relativo interpiano e monopiano colonne	0.00333
Limite spostamento relativo complessivo multipiano colonne	0.002
Considera taglio resistente estremità sagomati	no
Fattori parziali di sicurezza unitari per meccanismi duttili di strutture esistenti con fattore q	si

Verifiche alluminio

Normativa	D.M. 17-01-18 (N.T.C.)
γm1	1.15
γm2	1.25

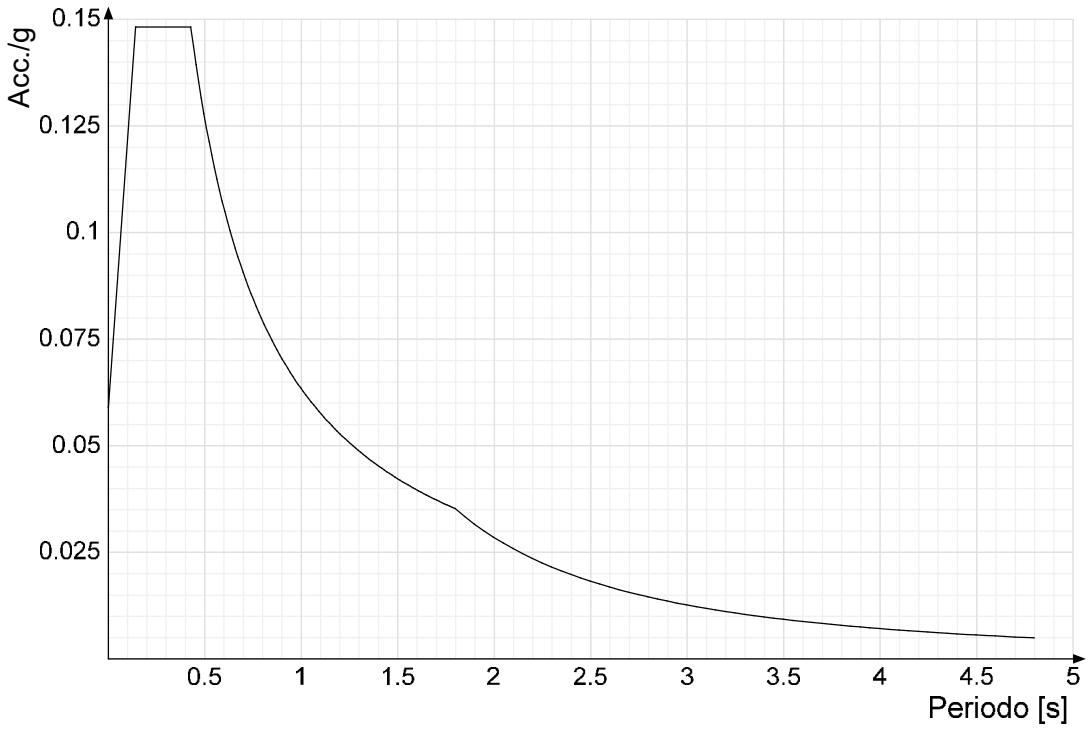
Verifiche pannelli gessofibra

Normativa	EN 1995-1-1:2004 +AC:2006 + A1:2008 + A2:2014; ETA-03/0050; ETA-07/0086; ETA-08/0147
a	7
b	-0.7
c	0.9
Kmod durata istantaneo, classe 1	1.1
Kmod durata istantaneo, classe 2	0.8
Kmod durata breve, classe 1	0.8
Kmod durata breve, classe 2	0.6
Kmod durata media, classe 1	0.6
Kmod durata media, classe 2	0.45
Kmod durata lunga, classe 1	0.4
Kmod durata lunga, classe 2	0.3
Kmod durata permanente, classe 1	0.2
Kmod durata permanente, classe 2	0.15

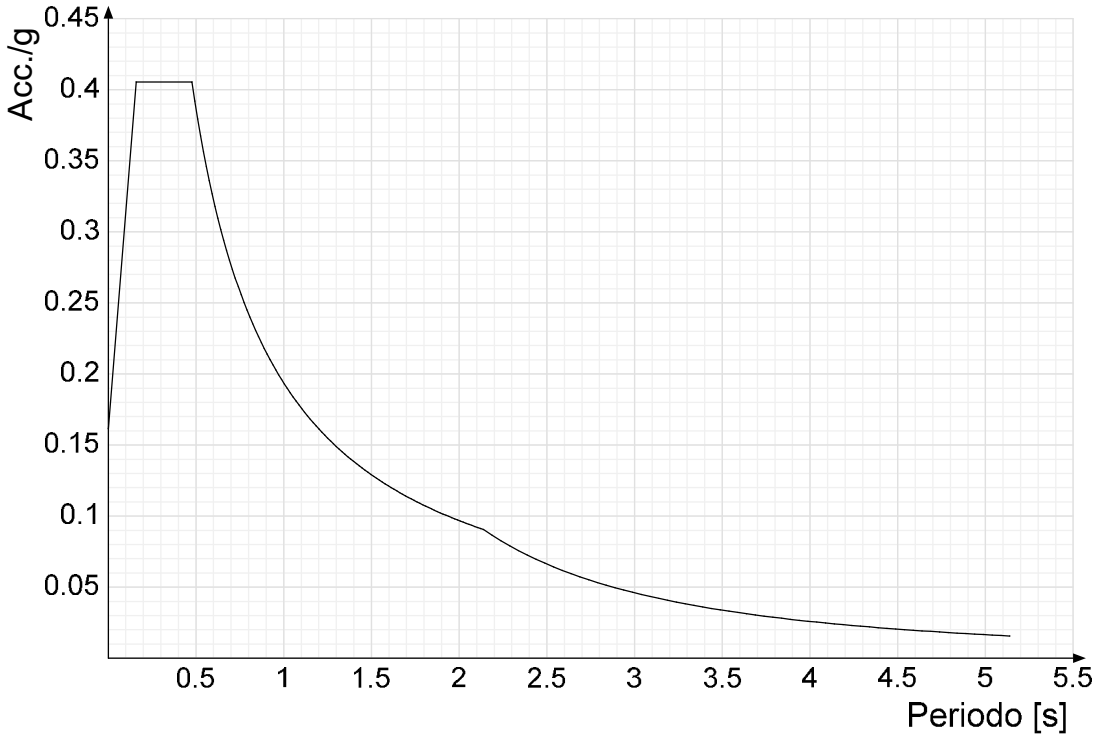
5.1.2 Spettri

Acc./g*: Accelerazione spettrale normalizzata ottenuta dividendo l'accelerazione spettrale per l'accelerazione di gravità.*
Periodo*: Periodo di vibrazione.*

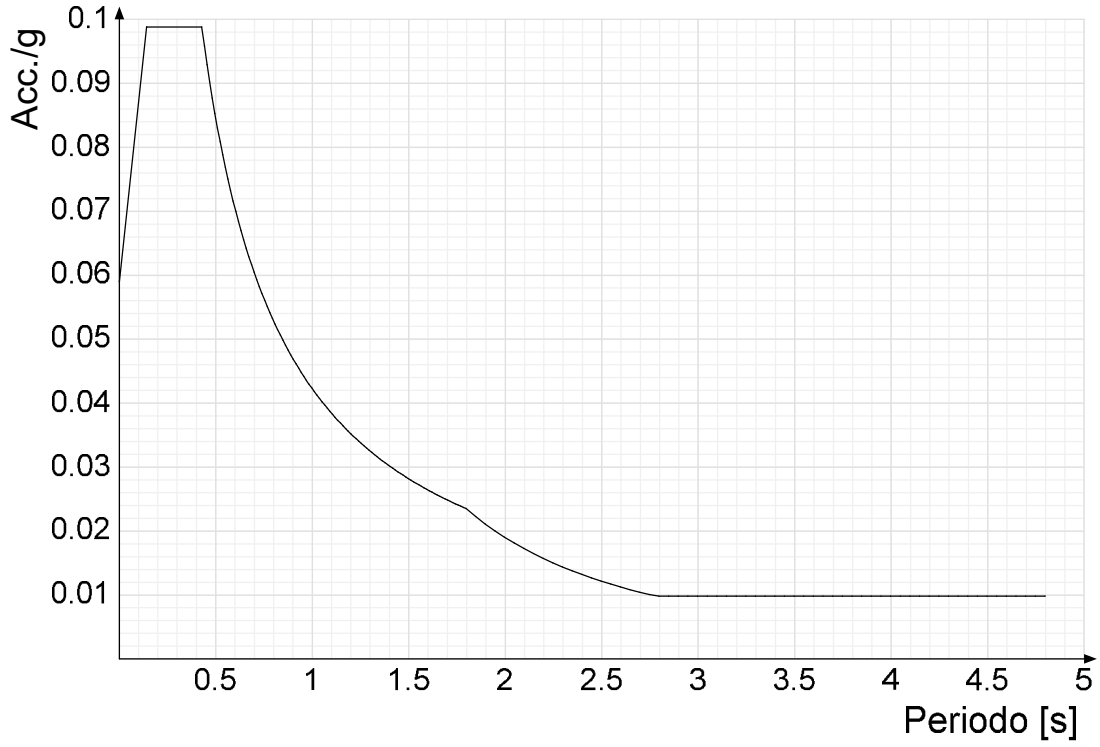
Spettro di risposta elastico in accelerazione delle componenti orizzontali SLD § 3.2.3.2.1 [3.2.2]



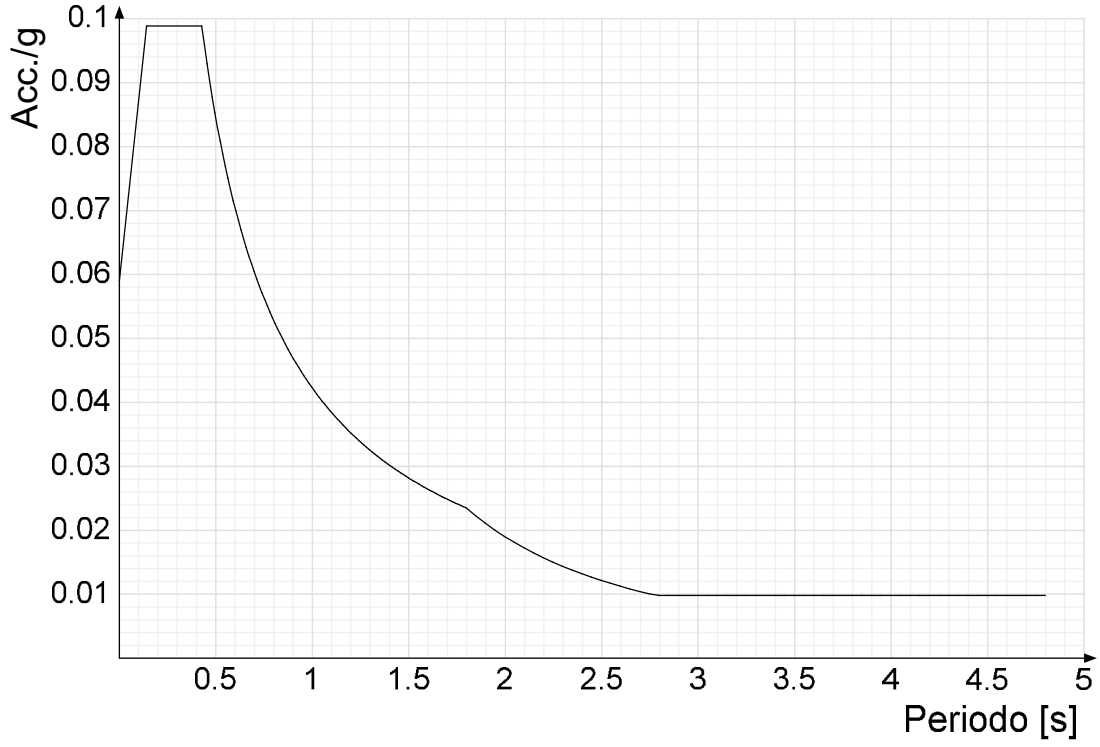
Spettro di risposta elastico in accelerazione delle componenti orizzontali SLV § 3.2.3.2.1 [3.2.2]



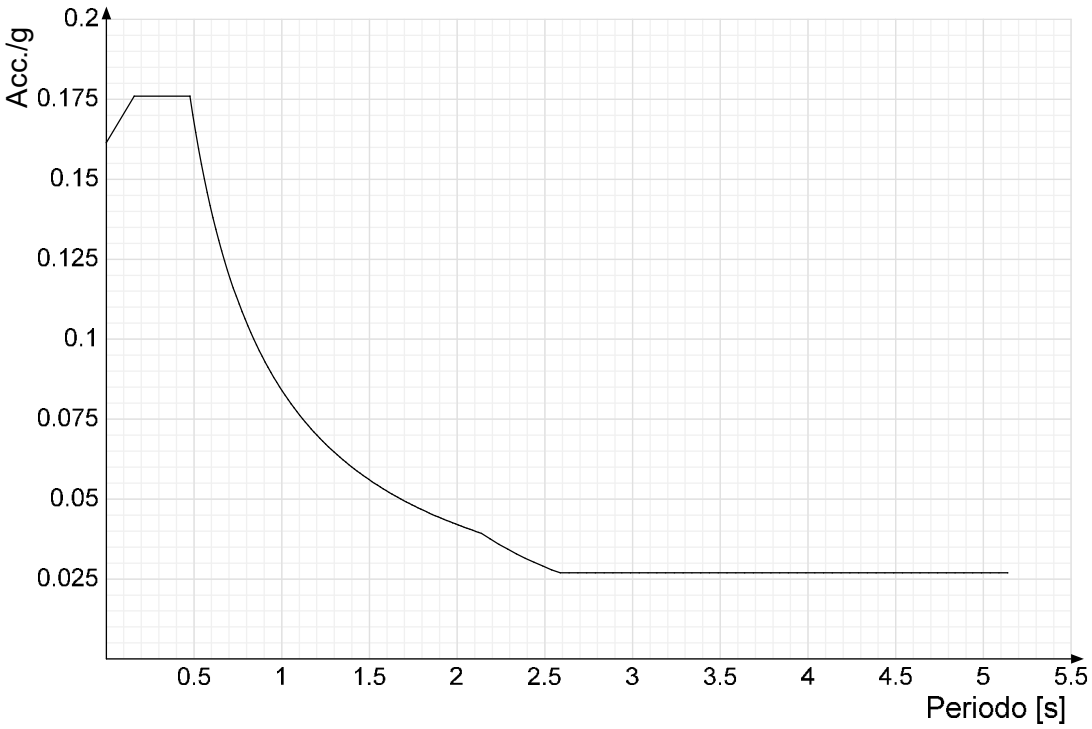
Spettro di risposta di progetto in accelerazione della componente X SLD § 3.2.3.5



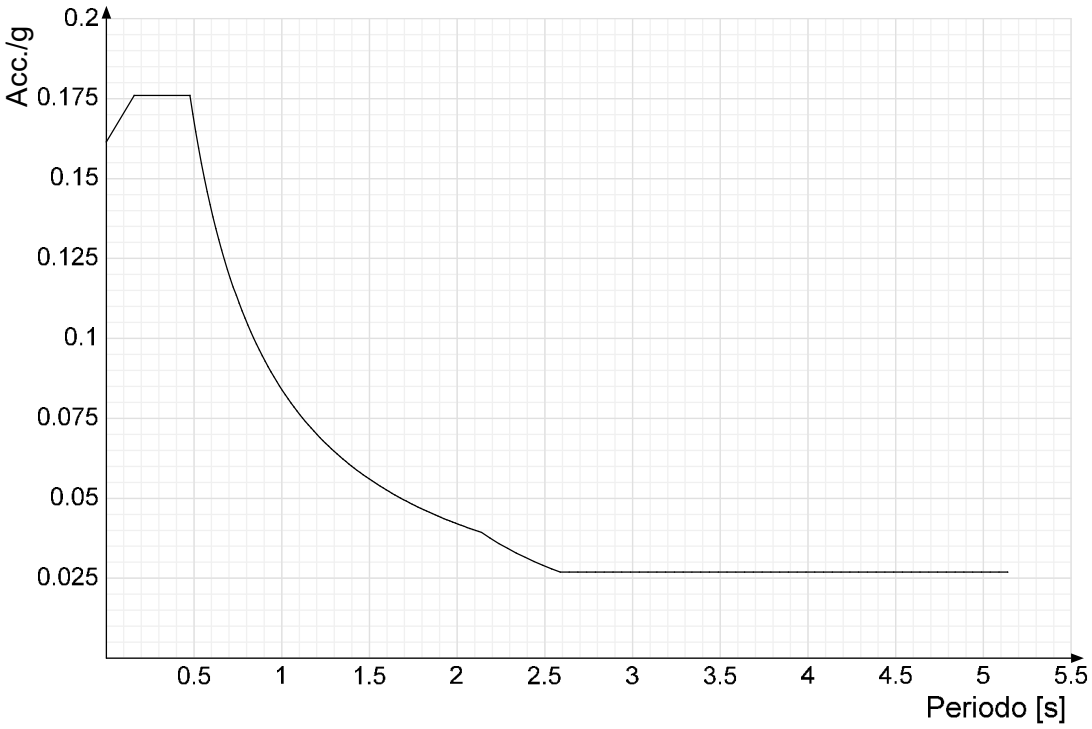
Spettro di risposta di progetto in accelerazione della componente Y SLD § 3.2.3.5



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

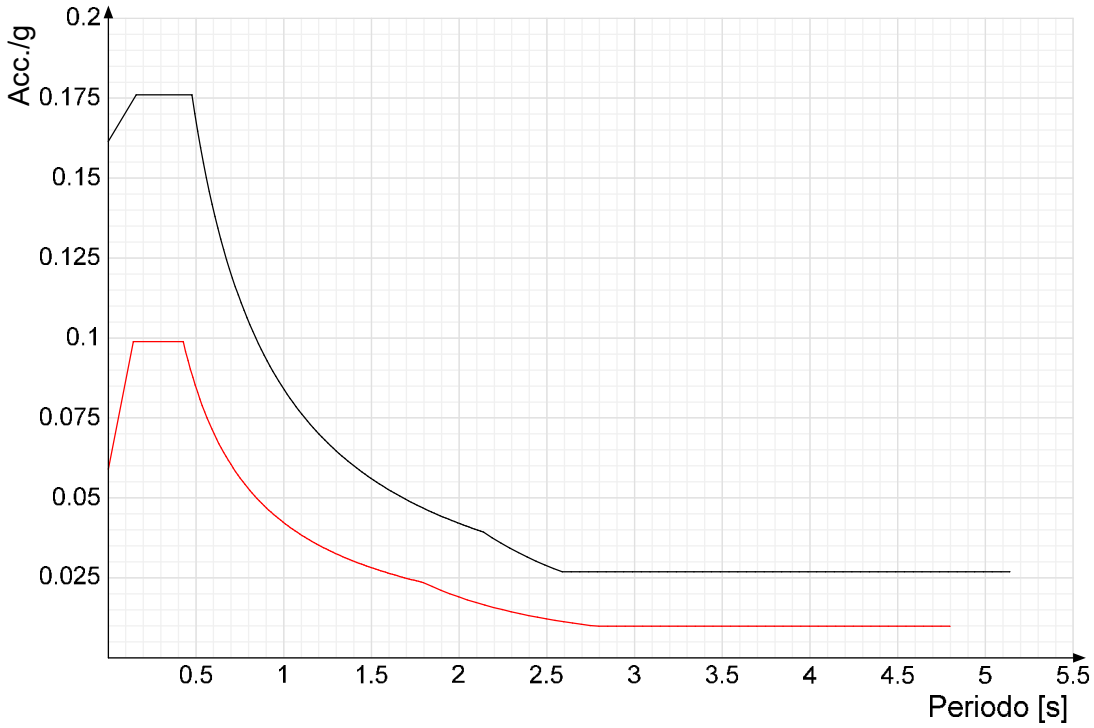


Spettro di risposta di progetto in accelerazione della componente Y SLV § 3.2.3.5

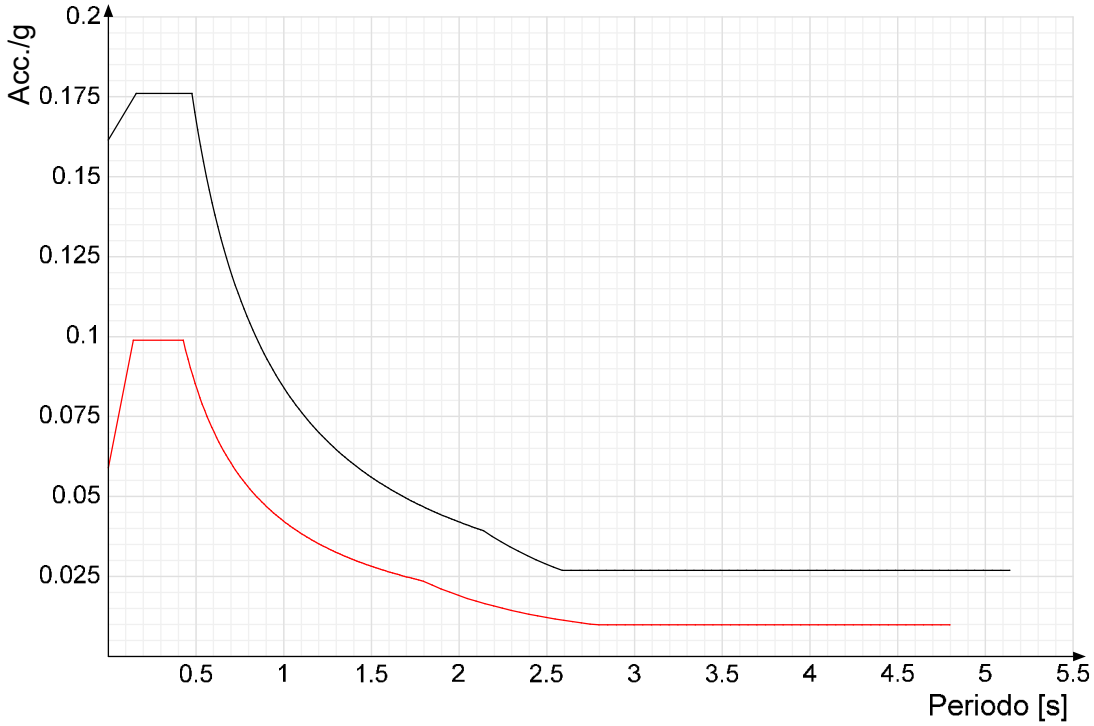


Confronti spettri SLV-SLD

Vengono confrontati lo spettro Spettro di risposta di progetto in accelerazione della componente X SLD § 3.2.3.5 (di colore rosso) e Spettro di risposta di progetto in accelerazione della componente X SLV § 3.2.3.5 (di colore nero).



Vengono confrontati lo spettro Spettro di risposta di progetto in accelerazione della componente Y SLD § 3.2.3.5 (di colore rosso) e Spettro di risposta di progetto in accelerazione della componente Y SLV § 3.2.3.5 (di colore nero).



5.1.3 Preferenze FEM

Dimensione massima ottimale mesh pareti (default)	50	[cm]
Dimensione massima ottimale mesh piastre (default)	50	[cm]
Dimensione massima ottimale suddivisioni archi finestre/porte (default)	50	[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	
Spessori membranale e flessionale pareti XLAM da sole tavole verticali	No	
Moltiplicatore rigidezza connettori pannelli pareti legno a diaframma	1	
Tolleranza di parallelismo	4.99	[deg]
Tolleranza di unicità punti	10	[cm]
Tolleranza generazione nodi di aste	2	[cm]
Tolleranza di parallelismo in suddivisione aste	4.99	[deg]
Tolleranza generazione nodi di gusci	4	[cm]
Tolleranza eccentricità carichi concentrati	100	[cm]

Considera deformabilità a taglio negli elementi guscio	No
Modello elastico pareti in muratura	Gusci
Concentra masse pareti nei vertici	No
Segno risultati analisi spettrale	Analisi statica
Metodo di risoluzione della matrice	Intel MKL PARDISO
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
Numero di modi di vibrare da ricercare	5
Algoritmo di analisi modale	Ritz
Algoritmo di combinazione modale	CQC

5.1.4 Moltiplicatori inerziali

***Tipologia**: tipo di entità a cui si riferiscono i moltiplicatori inerziali.*
***J2**: moltiplicatore inerziale di J2. Il valore è adimensionale.*
***J3**: moltiplicatore inerziale di J3. Il valore è adimensionale.*
***Jt**: moltiplicatore inerziale di Jt. Il valore è adimensionale.*
***A**: moltiplicatore dell'area della sezione. Il valore è adimensionale.*
***A2**: moltiplicatore dell'area a taglio in direzione 2. Il valore è adimensionale.*
***A3**: moltiplicatore dell'area a taglio in direzione 3. Il valore è adimensionale.*
***Conci rigidi**: fattore di riduzione dei tronchi rigidi. Il valore è adimensionale.*

Tipologia	J2	J3	Jt	A	A2	A3	Conci rigidi
Trave C.A.	1	1	0.01	1	1	1	0.5
Pilastro C.A.	1	1	0.01	1	1	1	0.5
Trave di fondazione	1	1	0.01	1	1	1	0.5
Palo	1	1	0.01	1	1	1	0
Trave in legno	1	1	1	1	1	1	1
Colonna in legno	1	1	1	1	1	1	1
Trave in acciaio	1	1	1	1	1	1	1
Colonna in acciaio	1	1	1	1	1	1	1
Trave di reticolare in acciaio	1	1	1	1	1	1	1
Maschio in muratura	0	1	0	1	1	1	1
Pilastro in muratura	1	1	0.01	1	1	1	0.5
Trave di accoppiamento in muratura	0	1	0	1	1	1	1
Trave di scala C.A. nervata	1	1	1	1	1	1	0.5
Trave tralicciata	1	1	0.01	1	1	1	0.5

5.1.5 Preferenze di analisi non lineare FEM

Metodo iterativo	Secante
Tolleranza iterazione	0.00001
Numero massimo iterazioni	50

5.1.6 Preferenze di analisi carichi superficiali

Detrazione peso proprio solai nelle zone di sovrapposizione	non applicata	
Metodo di ripartizione	a zone d'influenza	
Percentuale carico calcolato a trave continua	0	
Esegui smoothing diagrammi di carico	applicata	
Tolleranza smoothing altezza trapezi	0.001	[daN/cm]
Tolleranza smoothing altezza media trapezi	0.001	[daN/cm]

5.1.7 Preferenze del suolo

Fondazioni non modellate e struttura bloccata alla base	no	
Fondazioni bloccate orizzontalmente	si	
Considera peso sismico delle fondazioni	no	
Fondazioni superficiali e profonde su suolo elastoplastico	no	
Coefficiente di sottofondo verticale per fondazioni superficiali (default)	1.2	[daN/cm³]
Rapporto coefficiente di 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)	Limi argillosi Cimitero	
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	3	[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	
Calcola cedimenti teorici pali	no	
Considera accorciamento del palo	si	
Distanza influenza cedimento palo	1000	[cm]
Distribuzione attrito laterale	Attrito laterale uniforme	
Ripartizione del carico	Ripartizione come da modello FEM	
Scelta terreno laterale	Media pesata degli strati coinvolti	
Scelta terreno punta	Media pesata degli strati coinvolti	

Cedimento assoluto ammissibile	5	[cm]
Cedimento medio ammissibile	5	[cm]
Cedimento differenziale ammissibile	5	[cm]
Rotazione rigida ammissibile	0.191	[deg]
Trascura la coesione efficace in verifica allo scorrimento	si	
Considera inclinazione spinta del terreno contro pareti	no	
Esegui verifica a liquefazione	no	
Metodo di verifica liquefazione	Seed-Idriss (1982)	
Coeff. di sicurezza minimo a liquefazione	1.3	
Magnitudo scaling factor per liquefazione	1	

5.2 Azioni e carichi

5.2.1 Azione del vento

Zona	Zona 3	
Rugosità	Aree urbane in cui almeno il 15% della superficie sia coperto da edifici la cui altezza media superi i 15m	
Categoria esposizione	V	
Vb	2700	[cm/s]
Tr	50	[cm/s]
Ct	1	[cm/s]
qr	0.00456	[daN/cm²]
Quota piano campagna	0	[cm]

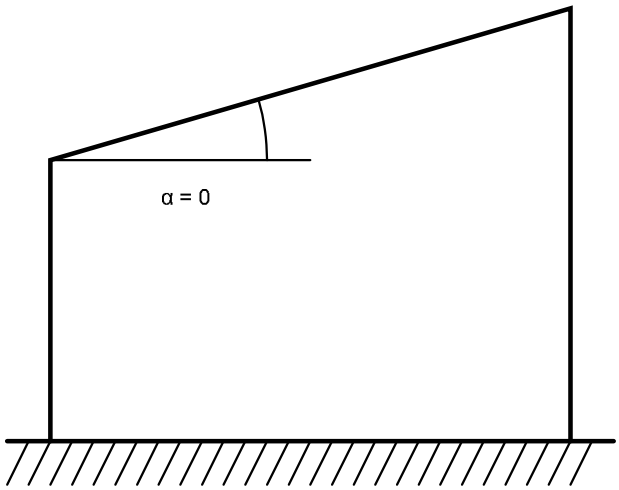
5.2.2 Azione della neve

Zona	Zona III	
Classe topografica	Aree in cui non è presente una significativa rimozione di neve sulla costruzione prodotta dal vento, a causa del terreno, altre costruzioni o alberi	
Ce	1	
Ct	1	
Tr	50	
qsk	0.0076	[daN/cm²]

Copertura ad una falda D.M. 17-01-18 §3.4.3.2

α	0	[deg]
μ	0.8	
q	0.0061	[daN/cm²]





5.2.3 Condizioni elementari di carico

***Descrizione**: nome assegnato alla condizione elementare.*
***Nome breve**: nome breve assegnato alla condizione elementare.*
***Durata**: descrive la durata della condizione (necessario per strutture in legno).*
***ψ0**: coefficiente moltiplicatore ψ0. Il valore è adimensionale.*
***ψ1**: coefficiente moltiplicatore ψ1. Il valore è adimensionale.*
***ψ2**: coefficiente moltiplicatore ψ2. Il valore è adimensionale.*
***Con segno**: descrive se la condizione elementare ha la possibilità di variare di segno.*

Descrizione	Nome breve	Durata	ψ0	ψ1	ψ2	Con segno
Pesi strutturali	Pesi	Permanente				
Variabile C	Variabile C	Media	0.7	0.7	0.6	
Neve	Neve	Media	0.5	0.2	0	
ΔT	ΔT	Media	0.6	0.5	0	No
Sisma X SLV	SLV X					
Sisma Y SLV	SLV Y					
Sisma Z SLV	SLV Z					

Descrizione	Nome breve	Durata	ψ0	ψ1	ψ2	Con segno
Eccentricità Y per sisma X SLV	EySx SLV					
Eccentricità X per sisma Y SLV	ExSy SLV					
Sisma X SLD	X SLD					
Sisma Y SLD	Y SLD					
Sisma Z SLD	Z SLD					
Eccentricità Y per sisma X SLD	EySx SLD					
Eccentricità X per sisma Y SLD	ExSy SLD					
Terreno sisma X SLV	Tr sLV X					
Terreno sisma Y SLV	Tr sLV Y					
Terreno sisma Z SLV	Tr sLV Z					
Terreno sisma X SLD	Tr x SLD					
Terreno sisma Y SLD	Tr y SLD					
Terreno sisma Z SLD	Tr z SLD					
Rig Ux	Rig Ux					
Rig Uy	Rig Uy					
Rig Rz	Rig Rz					

5.2.4 Combinazioni di carico

***Nome**: E' il nome esteso che contraddistingue la condizione elementare di carico.*
***Nome breve**: E' il nome compatto della condizione elementare di carico, che viene utilizzato altrove nella relazione.*
***Pesi**: Pesi strutturali*
***Variabile C**: Variabile C*
***Neve**: Neve*
***ΔT**: ΔT*
***X SLD**: Sisma X SLD*
***Y SLD**: Sisma Y SLD*
***Z SLD**: Sisma Z SLD*
***EySx SLD**: Eccentricità Y per sisma X SLD*
***ExSy SLD**: Eccentricità X per sisma Y SLD*
***Tr x SLD**: Terreno sisma X SLD*
***Tr y SLD**: Terreno sisma Y SLD*
***Tr z SLD**: Terreno sisma Z SLD*
***SLV X**: Sisma X SLV*
***SLV Y**: Sisma Y SLV*
***SLV Z**: Sisma Z SLV*
***EySx SLV**: Eccentricità Y per sisma X SLV*
***ExSy SLV**: Eccentricità X per sisma Y SLV*
***Tr sLV X**: Terreno sisma X SLV*
***Tr sLV Y**: Terreno sisma Y SLV*
***Tr sLV Z**: Terreno sisma Z SLV*
***Rig Ux**: Rig Ux*
***Rig Uy**: Rig Uy*
***Rig Rz**: Rig Rz*
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	Variabile C	Neve	ΔT
1	SLU 1	1	0	0	0
2	SLU 2	1	0	1.5	0
3	SLU 3	1	1.05	1.5	0
4	SLU 4	1	1.5	0	0
5	SLU 5	1	1.5	0.75	0
6	SLU 6	1.3	0	0	0
7	SLU 7	1.3	0	1.5	0
8	SLU 8	1.3	1.05	1.5	0
9	SLU 9	1.3	1.5	0	0
10	SLU 10	1.3	1.5	0.75	0

Famiglia SLE rara

Il nome compatto della famiglia è SLE RA.

Nome	Nome breve	Pesi	Variabile C	Neve	ΔT
1	SLE RA 1	1	0	0	0
2	SLE RA 2	1	0	1	0
3	SLE RA 3	1	0.7	1	0
4	SLE RA 4	1	1	0	0
5	SLE RA 5	1	1	0.5	0

Famiglia SLE frequente

Il nome compatto della famiglia è SLE FR.

Nome	Nome breve	Pesi	Variabile C	Neve	ΔT
1	SLE FR 1	1	0	0	0
2	SLE FR 2	1	0	0.2	0
3	SLE FR 3	1	0.6	0.2	0
4	SLE FR 4	1	0.7	0	0

Famiglia SLE quasi permanente

Il nome compatto della famiglia è SLE QP.

Nome	Nome breve	Pesi	Variabile C	Neve	ΔT
1	SLE QP 1	1	0	0	0
2	SLE QP 2	1	0.6	0	0

Famiglia SLU eccezionale

Il nome compatto della famiglia è SLU EX.

Nome	Nome breve	Pesi	Variabile C	Neve	ΔT

Famiglia SLD

Il nome compatto della famiglia è SLD.

Nome	Nome breve	Pesi	Variabile C	Neve	ΔT	X SLD	Y SLD	Z SLD	EySx SLD	ExSy SLD	Tr x SLD	Tr y SLD	Tr z SLD
1	SLD 1	1	0.6	0	0	-1	-0.3	0	-1	0.3	-1	-0.3	0
2	SLD 2	1	0.6	0	0	-1	-0.3	0	1	-0.3	-1	-0.3	0
3	SLD 3	1	0.6	0	0	-1	0.3	0	-1	0.3	-1	0.3	0
4	SLD 4	1	0.6	0	0	-1	0.3	0	1	-0.3	-1	0.3	0
5	SLD 5	1	0.6	0	0	-0.3	-1	0	-0.3	1	-0.3	-1	0
6	SLD 6	1	0.6	0	0	-0.3	-1	0	0.3	-1	-0.3	-1	0
7	SLD 7	1	0.6	0	0	-0.3	1	0	-0.3	1	-0.3	1	0
8	SLD 8	1	0.6	0	0	-0.3	1	0	0.3	-1	-0.3	1	0
9	SLD 9	1	0.6	0	0	0.3	-1	0	-0.3	1	0.3	-1	0
10	SLD 10	1	0.6	0	0	0.3	-1	0	0.3	-1	0.3	-1	0
11	SLD 11	1	0.6	0	0	0.3	1	0	-0.3	1	0.3	1	0
12	SLD 12	1	0.6	0	0	0.3	1	0	0.3	-1	0.3	1	0
13	SLD 13	1	0.6	0	0	1	-0.3	0	-1	0.3	1	-0.3	0
14	SLD 14	1	0.6	0	0	1	-0.3	0	1	-0.3	1	-0.3	0
15	SLD 15	1	0.6	0	0	1	0.3	0	-1	0.3	1	0.3	0
16	SLD 16	1	0.6	0	0	1	0.3	0	1	-0.3	1	0.3	0

Famiglia SLV

Il nome compatto della famiglia è SLV.

Nome	Nome breve	Pesi	Variabile C	Neve	ΔT	SLV X	SLV Y	SLV Z	EySx SLV	ExSy SLV	Tr sLV X	Tr sLV Y	Tr sLV Z
1	SLV 1	1	0.6	0	0	-1	-0.3	0	-1	0.3	-1	-0.3	0
2	SLV 2	1	0.6	0	0	-1	-0.3	0	1	-0.3	-1	-0.3	0
3	SLV 3	1	0.6	0	0	-1	0.3	0	-1	0.3	-1	0.3	0
4	SLV 4	1	0.6	0	0	-1	0.3	0	1	-0.3	-1	0.3	0
5	SLV 5	1	0.6	0	0	-0.3	-1	0	-0.3	1	-0.3	-1	0
6	SLV 6	1	0.6	0	0	-0.3	-1	0	0.3	-1	-0.3	-1	0
7	SLV 7	1	0.6	0	0	-0.3	1	0	-0.3	1	-0.3	1	0
8	SLV 8	1	0.6	0	0	-0.3	1	0	0.3	-1	-0.3	1	0
9	SLV 9	1	0.6	0	0	0.3	-1	0	-0.3	1	0.3	-1	0
10	SLV 10	1	0.6	0	0	0.3	-1	0	0.3	-1	0.3	-1	0
11	SLV 11	1	0.6	0	0	0.3	1	0	-0.3	1	0.3	1	0
12	SLV 12	1	0.6	0	0	0.3	1	0	0.3	-1	0.3	1	0
13	SLV 13	1	0.6	0	0	1	-0.3	0	-1	0.3	1	-0.3	0
14	SLV 14	1	0.6	0	0	1	-0.3	0	1	-0.3	1	-0.3	0
15	SLV 15	1	0.6	0	0	1	0.3	0	-1	0.3	1	0.3	0
16	SLV 16	1	0.6	0	0	1	0.3	0	1	-0.3	1	0.3	0

Famiglia SLV fondazioni

Il nome compatto della famiglia è SLV FO.

Nome	Nome breve	Pesi	Variabile C	Neve	ΔT	SLV X	SLV Y	SLV Z	EySx SLV	ExSy SLV	Tr sLV X	Tr sLV Y	Tr sLV Z
1	SLV FO 1	1	0.6	0	0	-1.1	-0.33	0	-1.1	0.33	-1.1	-0.33	0
2	SLV FO 2	1	0.6	0	0	-1.1	-0.33	0	1.1	-0.33	-1.1	-0.33	0
3	SLV FO 3	1	0.6	0	0	-1.1	0.33	0	-1.1	0.33	-1.1	0.33	0
4	SLV FO 4	1	0.6	0	0	-1.1	0.33	0	1.1	-0.33	-1.1	0.33	0
5	SLV FO 5	1	0.6	0	0	-0.33	-1.1	0	-0.33	1.1	-0.33	-1.1	0
6	SLV FO 6	1	0.6	0	0	-0.33	-1.1	0	0.33	-1.1	-0.33	-1.1	0
7	SLV FO 7	1	0.6	0	0	-0.33	1.1	0	-0.33	1.1	-0.33	1.1	0
8	SLV FO 8	1	0.6	0	0	-0.33	1.1	0	0.33	-1.1	-0.33	1.1	0
9	SLV FO 9	1	0.6	0	0	0.33	-1.1	0	-0.33	1.1	0.33	-1.1	0
10	SLV FO 10	1	0.6	0	0	0.33	-1.1	0	0.33	-1.1	0.33	-1.1	0
11	SLV FO 11	1	0.6	0	0	0.33	1.1	0	-0.33	1.1	0.33	1.1	0
12	SLV FO 12	1	0.6	0	0	0.33	1.1	0	0.33	-1.1	0.33	1.1	0
13	SLV FO 13	1	0.6	0	0	1.1	-0.33	0	-1.1	0.33	1.1	-0.33	0
14	SLV FO 14	1	0.6	0	0	1.1	-0.33	0	1.1	-0.33	1.1	-0.33	0
15	SLV FO 15	1	0.6	0	0	1.1	0.33	0	-1.1	0.33	1.1	0.33	0
16	SLV FO 16	1	0.6	0	0	1.1	0.33	0	1.1	-0.33	1.1	0.33	0

Famiglia Calcolo rigidezza torsionale/flessionale di piano

Il nome compatto della famiglia è CRTFP.

Nome	Nome breve	Rig Ux	Rig Uy	Rig 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

5.2.5 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		
carichi piano terra	Pesi strutturali	0.3055	Verticale
	Variabile C	0	Verticale
	Neve	0	Verticale
Copertura	Pesi strutturali	0.004	Verticale
	Variabile C	0	Verticale
	Neve	0.0061	Verticale in proiezione
Carichi piano primo	Pesi strutturali	0.2475	Verticale
	Variabile C	0	Verticale
	Neve	0	Verticale
carichi percorsi	Pesi strutturali	0.012	Verticale
	Variabile C	0.05	Verticale
	Neve	0	Verticale

5.3 Quote

5.3.1 Livelli

***Descrizione breve**: nome sintetico assegnato al livello.*
***Descrizione**: nome assegnato al livello.*
***Quota**: quota superiore espressa nel sistema di riferimento assoluto. [cm]*
***Spessore**: spessore del livello. [cm]*

Descrizione breve	Descrizione	Quota	Spessore
L1	Fondazione	0	60
L2	Piano 1	440	20
L3	Copertura	790	20

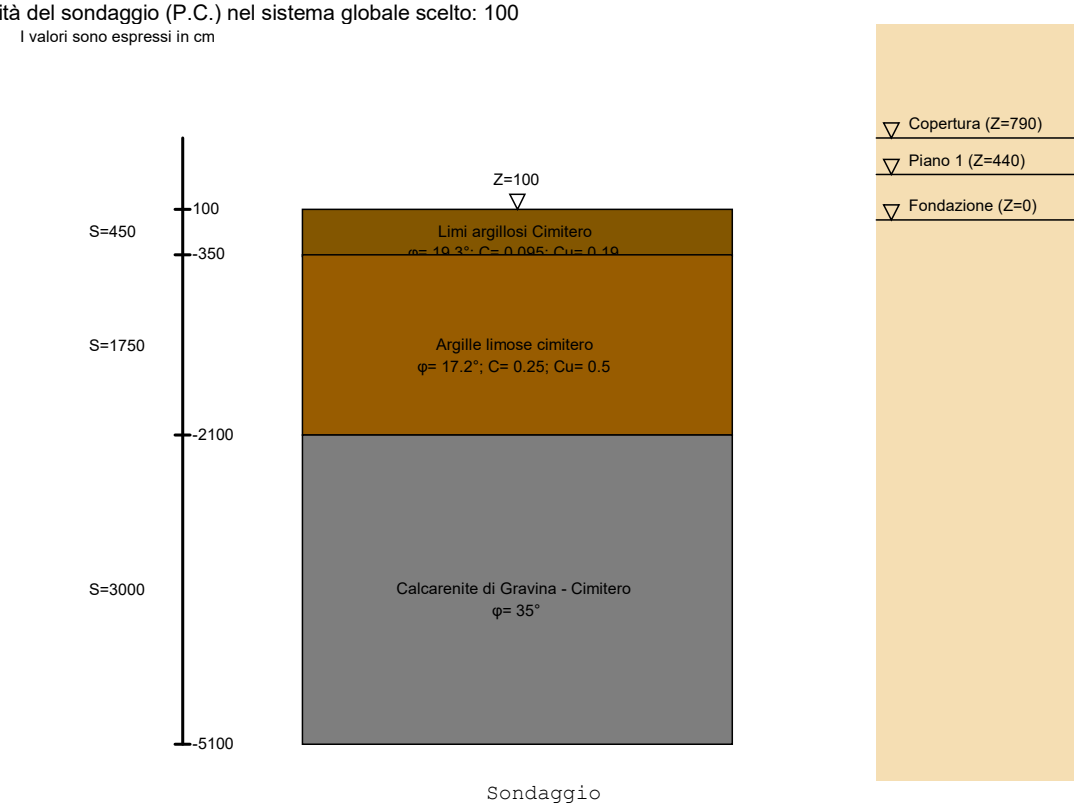
5.3.2 Tronchi

***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 - Piano 1	Fondazione	Piano 1
T2	Fondazione - 180	Fondazione	180

5.4 Sondaggi del sito

Vengono elencati in modo sintetico tutti i sondaggi risultanti dalle verticali di indagine condotte in sito, con l'indicazione dei terreni incontrati, degli spessori e dell'eventuale falda acquifera.
Nome attribuito al sondaggio: Sondaggio
Coordinate planimetriche del sondaggio nel sistema globale scelto: 0, 0
Quota della sommità del sondaggio (P.C.) nel sistema globale scelto: 100



Stratigrafie

***Terreno**: terreno mediamente uniforme presente nello strato.*
***Sp.**: spessore dello strato. [cm]*
***Liqf**: indica se considerare lo strato come liquefacibile nelle combinazioni sismiche.Con 'Da verifica' viene considerato quanto risulta dalla verifica condotta a fine calcolo solutore.*
***Kor,i**: coefficiente K orizzontale al livello inferiore dello strato per modellazione palo. [daN/cm³]*
***Kor,s**: coefficiente K orizzontale al livello superiore dello strato per modellazione palo. [daN/cm³]*
***Kve,i**: coefficiente K verticale al livello inferiore dello strato per modellazione palo. [daN/cm³]*
***Kve,s**: coefficiente K verticale al livello superiore dello strato per modellazione palo. [daN/cm³]*
***Eel,s**: modulo elastico al livello superiore dello strato per calcolo cedimenti istantanei; 0 per non calcolarli. [daN/cm²]*
***Eel,i**: modulo elastico al livello inferiore dello strato per calcolo cedimenti istantanei; 0 per non calcolarli. [daN/cm²]*
***Eed,s**: modulo edometrico al livello superiore per calcolo cedimenti complessivi; 0 per non calcolarli. [daN/cm²]*
***Eed,i**: modulo edometrico al livello inferiore per calcolo cedimenti complessivi; 0 per non calcolarli. [daN/cm²]*
***CC,s**: coefficiente di compressione vergine CC al livello superiore per calcolo cedimenti di consolidazione; 0 per non calcolarli. Il valore è adimensionale.*
***CC,i**: coefficiente di compressione vergine CC al livello inferiore per calcolo cedimenti di consolidazione; 0 per non calcolarli. Il valore è adimensionale.*
***CR,s**: coefficiente di ricompressione CR al livello superiore per calcolo cedimenti di consolidazione; 0 per non calcolarli. Il valore è adimensionale.*

***CR,i**: coefficiente di ricompressione CR al livello inferiore per calcolo cedimenti di consolidazione; 0 per non calcolarli. Il valore è adimensionale.*
***E0,s**: indice dei vuoti E0 al livello superiore per calcolo cedimenti di consolidazione. Il valore è adimensionale.*
***E0,i**: indice dei vuoti E0 al livello inferiore per calcolo cedimenti di consolidazione. Il valore è adimensionale.*
***OCR,s**: indice di sovraconsolidazione OCR al livello superiore per calcolo cedimenti di consolidazione; 1 per terreno NC. Il valore è adimensionale.*
***OCR,i**: indice di sovraconsolidazione OCR al livello inferiore per calcolo cedimenti di consolidazione; 1 per terreno NC. Il valore è adimensionale.*

Terreno	Sp.	Liqf	Kor,i	Kor,s	Kve,i	Kve,s	Eel,s	Eel,i	Eed,s	Eed,i	CC,s	CC,i	CR,s	CR,i	E0,s	E0,i	OCR,s	OCR,i
Limi argillosi Cimitero	450	No	1.5	1	1	1	600	600	0	0	0	0	0	0	0	0	1	1
Argille limose cimitero	1750	No	1.5	1	1	1	680	680	0	0	0	0	0	0	0	0	1	1
Calcarenite di Gravina - Cimitero	3000	No	1.5	1	1	1	9110	9110	0	0	0	0	0	0	0	0	1	1

5.5 Elementi di input

5.5.1 Fili fissi

5.5.1.1 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				
L1	120	-142	0	0	Croce	1	L1	3288	155.5	0	0	Croce	26
L1	3288	-142	0	0	Croce	25	L1	2696	937	0	0	Croce	24
L1	2696	639.5	0	0	Croce	23	L1	2696	155.5	0	0	Croce	22
L1	2696	-142	0	0	Croce	21	L1	1319	937	0	0	Croce	12
L1	1319	639.5	0	0	Croce	11	L1	1319	155.5	0	0	Croce	10
L1	1319	-142	0	0	Croce	9	L1	727	937	0	0	Croce	8
L1	727	639.5	0	0	Croce	7	L1	727	155.5	0	0	Croce	6
L1	727	-142	0	0	Croce	5	L1	3895	937	0	0	Croce	32
L1	3895	639.5	0	0	Croce	31	L1	3895	155.5	0	0	Croce	30
L1	3895	-142	0	0	Croce	29	L1	2089	937	0	0	Croce	20
L1	2089	639.5	0	0	Croce	19	L1	2089	155.5	0	0	Croce	18
L1	2089	-142	0	0	Croce	17	L1	1926	937	0	0	Croce	16
L1	1926	639.5	0	0	Croce	15	L1	1926	155.5	0	0	Croce	14
L1	1926	-142	0	0	Croce	13	L1	120	937	0	0	Croce	4
L1	120	639.5	0	0	Croce	3	L1	120	155.5	0	0	Croce	2
L1	3288	639.5	0	0	Croce	27	L1	3288	937	0	0	Croce	28

5.5.2 Travi C.A.

5.5.2.1 Travi C.A. di piano

***Sezione**: riferimento ad una definizione di sezione C.A..*
***P.i.**: posizione dei punti d'inserimento rispetto alla geometria della sezione. SA=Sinistra anima, CA=Centro anima, DA=Destra anima*
***Liv.**: 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]*
***Mat.**: riferimento ad una definizione di materiale calcestruzzo.*
***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.*
***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]*

Sezione	P.i.	Liv.	Punto i.		Punto f.		Estr.	Mat.	Car.lin.	Sovr.	S.Z	C.i.	C.f.	P.lin.
			X	Y	X	Y								
R 40x60	SA	L2	120	639.5	727	639.5	0	C32/40	Nessuno; G	0	No	No	No	6
R 40x60	DA	L2	3288	155.5	3895	155.5	0	C32/40	Nessuno; G	0	No	No	No	6
R 40x60	DA	L2	2696	155.5	3288	155.5	0	C32/40	Nessuno; G	0	No	No	No	6
R 40x60	SA	L2	1319	639.5	1926	639.5	0	C32/40	Nessuno; G	0	No	No	No	6
R 40x60	SA	L2	727	639.5	1319	639.5	0	C32/40	Nessuno; G	0	No	No	No	6
R 40x60	DA	L2	1319	155.5	1926	155.5	0	C32/40	Nessuno; G	0	No	No	No	6
R 40x60	DA	L2	727	155.5	1319	155.5	0	C32/40	Nessuno; G	0	No	No	No	6
R 40x60	SA	L2	3288	639.5	3895	639.5	0	C32/40	Nessuno; G	0	No	No	No	6
R 40x60	SA	L2	2696	639.5	3288	639.5	0	C32/40	Nessuno; G	0	No	No	No	6
R 40x60	SA	L2	2089	639.5	2696	639.5	0	C32/40	Nessuno; G	0	No	No	No	6
R 40x60	DA	L2	120	155.5	727	155.5	0	C32/40	Nessuno; G	0	No	No	No	6
R 40x60	DA	L2	2089	155.5	2696	155.5	0	C32/40	Nessuno; G	0	No	No	No	6

Sezione	P.i.	Liv.	Punto i.		Punto f.		Estr.	Mat.	Car.lin.	Sovr.	S.Z	C.i.	C.f.	P.lin.
			X	Y	X	Y								
R 25x30	DA	L2	2089	-142	3895	-142	0	C32/40	Nessuno; G	0	No	No	No	1.88
R 25x30	SA	L2	120	937	1926	937	0	C32/40	Nessuno; G	0	No	No	No	1.88
R 25x30	SA	L2	2089	937	3895	937	0	C32/40	Nessuno; G	0	No	No	No	1.88
R 25x30	DA	L2	120	-142	1926	-142	0	C32/40	Nessuno; G	0	No	No	No	1.88
R 40x50	SA	L3	120	639.5	727	639.5	0	C32/40	Nessuno; G	0	No	No	No	5
R 40x50	SA	L3	3288	639.5	3895	639.5	0	C32/40	Nessuno; G	0	No	No	No	5
R 40x50	SA	L3	2696	639.5	3288	639.5	0	C32/40	Nessuno; G	0	No	No	No	5
R 40x50	DA	L3	3288	155.5	3895	155.5	0	C32/40	Nessuno; G	0	No	No	No	5
R 40x50	DA	L3	2696	155.5	3288	155.5	0	C32/40	Nessuno; G	0	No	No	No	5
R 40x50	SA	L3	1319	639.5	1926	639.5	0	C32/40	Nessuno; G	0	No	No	No	5
R 40x50	SA	L3	727	639.5	1319	639.5	0	C32/40	Nessuno; G	0	No	No	No	5
R 40x50	DA	L3	727	155.5	1319	155.5	0	C32/40	Nessuno; G	0	No	No	No	5
R 40x50	DA	L3	120	155.5	727	155.5	0	C32/40	Nessuno; G	0	No	No	No	5
R 40x50	SA	L3	2089	639.5	2696	639.5	0	C32/40	Nessuno; G	0	No	No	No	5
R 40x50	DA	L3	2089	155.5	2696	155.5	0	C32/40	Nessuno; G	0	No	No	No	5
R 40x50	DA	L3	1319	155.5	1926	155.5	0	C32/40	Nessuno; G	0	No	No	No	5

5.5.3 Piastre C.A.

5.5.3.1 Piastre C.A. di piano

***Livello**: quota di inserimento espressa con notazione breve esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***Sp.**: spessore misurato in direzione ortogonale al piano medio dell'elemento. [cm]*
***Punti**: punti di definizione in pianta.*
***I.**: 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]*
***Mat.**: riferimento ad una definizione di calcestruzzo.*
***Car.sup.**: riferimento alla definizione di un carico superficiale. Accetta anche il valore "Nessuno".*
***Car.pot.**: riferimento alla definizione di un carico potenziale. Accetta anche il valore "Nessuno".*
***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.*
***P.sup.**: peso per unità di superficie. [daN/cm²]*
***Fond.**: riferimento alla fondazione sottostante l'elemento.*
***Fori**: riferimenti a tutti gli elementi che forano la piastra.*

Livello	Sp.	Punti			Estr.	Mat.	Car.sup.	Car.pot.	DeltaT	Sovr.	S.Z	P.sup.	Fond.	Fori
		I.	X	Y										
L1	60	1	38	955	0	C25/30	carichi piano terra			0	No	0.15		
		2	38	-160										
		3	4165	-160										
		4	4165	955										
L2	20	1	120	937	0	C32/40	carichi percorsi			0	No	0.05		
		2	120	619.5										
		3	1926	619.6										
		4	1926	937										
L2	20	1	120	175.5	0	C32/40	carichi percorsi			0	No	0.05		
		2	120	-142										
		3	1926	-142										
		4	1926	175.5										
L2	20	1	2089	937	0	C32/40	carichi percorsi			0	No	0.05		
		2	2089	619.4										
		3	4140	619.5										
		4	4140	937										
L2	20	1	2089	175.5	0	C32/40	carichi percorsi			0	No	0.05		
		2	2089	-142										
		3	4140	-142										
		4	4140	175.5										
L2	20	1	3895	175.5	0	C32/40	carichi percorsi			0	No	0.05		
		2	4140	175.5										
		3	4140	619.5										
		4	3894.9	619.5										
L2	20	1	3895	175.5	0	C32/40	Carichi piano primo			0	No	0.05		
		2	3894.9	619.5										
		3	2089	619.4										
		4	2089	175.5										
L2	20	1	1926	175.5	0	C32/40	Carichi piano primo			0	No	0.05		
		2	1926	619.6										
		3	120	619.5										
		4	120	175.5										
L2	20	1	2002.5	-142	0	C32/40	carichi percorsi			0	No	0.05		
		2	2002.5	937										
		3	1926	937										
		4	1926	-142										
L2	20	1	2089	937	0	C32/40	carichi percorsi			0	No	0.05		
		2	2012.5	937										
		3	2012.5	-142										
		4	2089	-142										

Livello	Sp.	Punti			Estr.	Mat.	Car.sup.	Car.pot.	DeltaT	Sovr.	S.Z	P.sup.	Fond.	Fori
		I.	X	Y										
L2	20	1	120	-142	0	C32/40	carichi percorsi			0	No	0.05		
		2	120	937										
		3	43.5	937										
		4	43.5	-142										
L3	20	1	43.5	815	0	C32/40	Copertura			0	No	0.05		
		2	43.5	-20										
		3	2002.5	-20										
		4	2002.5	815										
L3	20	1	2012.5	-20	0	C32/40	Copertura			0	No	0.05		
		2	3895	-20										
		3	3895	815										
		4	2012.5	815										

5.5.4 Fondazioni di piastre

***Descrizione breve**: descrizione breve usata nelle tabelle dei capitoli delle piastre di fondazione.*
***Stratigrafia**: stratigrafia del terreno nel punto medio in pianta dell'elemento.*
***Sondaggio**: è possibile indicare esplicitamente un sondaggio definito nelle preferenze oppure richiedere di estrapolare il sondaggio dalla definizione del sito espressa nelle preferenze.*
***Estradosso**: distanza dalla quota superiore del sondaggio misurata in verticale con verso positivo verso l'alto. [cm]*
***Deformazione volumetrica**: valore della deformazione volumetrica impiegato nel calcolo della pressione limite a rottura con la formula di Vesic. Il valore è adimensionale. Accetta anche il valore di default espresso nelle preferenze.*
***Angolo pendio**: angolo del pendio rispetto l'orizzontale; il valore deve essere positivo per opere in sommità di un pendio mentre deve essere negativo per opere al piede di un pendio. [deg]*
***K verticale**: coefficiente di sottofondo verticale del letto di molle. [daN/cm³]*
***Limite compressione**: pressione limite di plasticizzazione a compressione del letto di molle. [daN/cm²]*
***Limite trazione**: pressione limite di plasticizzazione a trazione del letto di molle. [daN/cm²]*

Descrizione breve	Stratigrafia			Angolo pendio	K verticale	Limite compressione	Limite trazione
	Sondaggio	Estradosso	Deformazione volumetrica				
FS1	Piu' vicino in sito	0		0	1,2	10	0,001

5.5.5 Piastre generiche

***Sp.**: spessore misurato in direzione ortogonale al piano medio dell'elemento. [cm]*
***Punti**: punti di definizione.*
***I.**: indice del punto corrente nell'insieme dei punti di definizione dell'elemento.*
***X**: coordinata X. [cm]*
***Y**: coordinata Y. [cm]*
***Z**: coordinata Z. [cm]*
***Mat.**: riferimento ad una definizione di materiale.*
***Car.sup.**: riferimento alla definizione di un carico superficiale. Accetta anche il valore "Nessuno".*
***Car.pot.**: riferimento alla definizione di un carico potenziale. Accetta anche il valore "Nessuno".*
***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.*
***P.sup.**: peso per unità di superficie. [daN/cm²]*
***Fond.**: riferimento alla fondazione sottostante l'elemento.*
***Fori**: riferimenti a tutti gli elementi che forano la piastra.*

Sp.	Punti				Mat.	Car.sup.	Car.pot.	DeltaT	Sovr.	S.Z	P.sup.	Fond.	Fori
	I.	X	Y	Z									
30	1	1319	675	0	C32/40				0	No	0.075		
	2	1319	120	0									
	3	1319	120	350									
	4	1319	-142	390									
	5	1319	-142	440									
	6	1319	120	440									
	7	1319	120	770									
	8	1319	-20	770									
	9	1319	-20	790									
	10	1319	815	790									
	11	1319	815	770									
	12	1319	675	770									
	13	1319	675	440									
	14	1319	937	440									
	15	1319	937	390									
	16	1319	675	350									
30	1	135	675	0	C32/40				0	No	0.075		
	2	135	120	0									
	3	135	120	350									
	4	135	-142	390									
	5	135	-142	440									
	6	135	120	440									
	7	135	120	770									
	8	135	-20	770									
	9	135	-20	790									
	10	135	815	790									
	11	135	815	770									
	12	135	675	770									
	13	135	675	440									
	14	135	937	440									
	15	135	937	390									
	16	135	675	350									
30	1	727	675	0	C32/40				0	No	0.075		
	2	727	120	0									
	3	727	120	350									
	4	727	-142	390									

Sp.	Punti				Mat.	Car.sup.	Car.pot.	DeltaT	Sovr.	S.Z	P.sup.	Fond.	Fori
	I.	X	Y	Z									
	5	727	-142	440									
	6	727	120	440									
	7	727	120	770									
	8	727	-20	770									
	9	727	-20	790									
	10	727	815	790									
	11	727	815	770									
	12	727	675	770									
	13	727	675	440									
	14	727	937	440									
	15	727	937	390									
	16	727	675	350									
30	1	1911	675	0	C32/40				0	No	0.075		
	2	1911	120	0									
	3	1911	120	350									
	4	1911	-142	390									
	5	1911	-142	440									
	6	1911	120	440									
	7	1911	120	770									
	8	1911	-20	770									
	9	1911	-20	790									
	10	1911	815	790									
	11	1911	815	770									
	12	1911	675	770									
	13	1911	675	440									
	14	1911	937	440									
	15	1911	937	390									
	16	1911	675	350									
30	1	2104	675	0	C32/40				0	No	0.075		
	2	2104	120	0									
	3	2104	120	350									
	4	2104	-142	390									
	5	2104	-142	440									
	6	2104	120	440									
	7	2104	120	770									
	8	2104	-20	770									
	9	2104	-20	790									
	10	2104	815	790									
	11	2104	815	770									
	12	2104	675	770									
	13	2104	675	440									
	14	2104	937	440									
	15	2104	937	390									
	16	2104	675	350									
30	1	2696	675	0	C32/40				0	No	0.075		
	2	2696	120	0									
	3	2696	120	350									
	4	2696	-142	390									
	5	2696	-142	440									
	6	2696	120	440									
	7	2696	120	770									
	8	2696	-20	770									
	9	2696	-20	790									
	10	2696	815	790									
	11	2696	815	770									
	12	2696	675	770									
	13	2696	675	440									
	14	2696	937	440									
	15	2696	937	390									
	16	2696	675	350									
30	1	3288	675	0	C32/40				0	No	0.075		
	2	3288	120	0									
	3	3288	120	350									
	4	3288	-142	390									
	5	3288	-142	440									
	6	3288	120	440									
	7	3288	120	770									
	8	3288	-20	770									
	9	3288	-20	790									
	10	3288	815	790									
	11	3288	815	770									
	12	3288	675	770									
	13	3288	675	440									
	14	3288	937	440									
	15	3288	937	390									
	16	3288	675	350									
30	1	3880	675	0	C32/40				0	No	0.075		
	2	3880	120	0									
	3	3880	120	350									
	4	3880	-142	390									
	5	3880	-142	440									
	6	3880	120	440									
	7	3880	120	770									
	8	3880	-20	770									
	9	3880	-20	790									
	10	3880	815	790									
	11	3880	815	770									
	12	3880	675	770									
	13	3880	675	440									
	14	3880	937	440									
	15	3880	937	390									
	16	3880	675	350									

5.5.6 Pareti C.A.

***Tr.**: riferimento al tronco indicante la quota inferiore e superiore.*
***Sp.**: spessore misurato in direzione ortogonale al piano medio dell'elemento. [cm]*
***P.i.**: posizione del punto di inserimento rispetto ad una sezione verticale, vista dal punto iniziale verso il punto finale.*

***Punto i.**: punto iniziale in pianta.*
***X**: coordinata X. [cm]*
***Y**: coordinata Y. [cm]*
***Punto f.**: punto finale in pianta.*
***X**: coordinata X. [cm]*
***Y**: coordinata Y. [cm]*
***Mat.**: riferimento ad una definizione di calcestruzzo.*
***Car.pot.**: riferimento alla definizione di un carico potenziale. Accetta anche il valore "Nessuno".*
***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.*
***Aperture**: Riferimenti a tutti gli elementi che forano la parete.*

Tr.	Sp.	P.i.	Punto i.		Punto f.		Mat.	Car.pot.	DeltaT	Sovr.	S.Z	Aperture
			X	Y	X	Y						
T2	25	Sinistra	4165	955	4165	-160	C25/30			0	No	

5.5.7 Carichi terreno

5.5.7.1 Carichi terreno tra quote

***Q. sup. ini.**: quota superiore del punto di inserimento iniziale. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***Q. sup. fin.**: quota superiore del punto di inserimento finale. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***Q. lim. inf.**: quota limite inferiore del diagramma di spinta. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***P.ini.**: punto di inserimento iniziale.*
***X**: coordinata X. [cm]*
***Y**: coordinata Y. [cm]*
***P.fin.**: punto di inserimento finale.*
***X**: coordinata X. [cm]*
***Y**: coordinata Y. [cm]*
***Dim.**: dimensione del simbolo. [cm]*
***Pos.**: posizione del terreno rispetto ai due punti di definizione.*
***Ang.**: angolo di inclinazione, rispetto l'orizzontale, del profilo superiore del terreno nella direzione normale alla parete. [deg]*
***Terreno**: riferimento alla definizione di un terreno.*
***Metodo spinta terra**: metodo di valutazione della spinta del terreno: "Spinta a riposo Ko + Wood" per muri rigidamente vincolati; "Mononobe-Okabe" per muri liberi al piede.*
***Distr. sp. sism.**: distribuzione della spinta sismica del terreno: "Costante" per muri rigidamente vincolati; "Litostatico", "Litostatico inverso" per muri liberi al piede.*
***Coeff. Bm**: coefficiente di riduzione dell'accelerazione massima attesa al sito. Per muri che non siano in grado di subire spostamenti relativi rispetto al terreno o in presenza di terreni non coesivi saturi, il coefficiente assume valore unitario. Il valore è adimensionale.*
***Falda**: permette di definire l'eventuale falda freatica.*
***Sovr.**: riferimento alla definizione di un carico di superficie, pensato uniformemente distribuito al di sopra del terreno. Accetta anche il valore "Nessuno".*

Q. sup. ini.	Q. sup. fin.	Q. lim. inf.	P.ini.		P.fin.		Dim.	Pos.	Ang.	Terreno	Metodo spinta terra	Distr. sp. sism.	Coeff. Bm	Falda	Sovr.
			X	Y	X	Y									
180	180		4165	955	4165	-160	Default (100)	Sinistra	5	Limi argillosi Cimitero	Spinta a riposo Ko + Wood	Costante			

6 Dati di modellazione

6.1 Nodi

6.1.1 Nodi di definizione

***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	38	-160	-30	3	87.7	-160	-30	4	137.4	-160	-30	5	187.2	-160	-30
6	236.9	-160	-30	7	286.6	-160	-30	8	336.3	-160	-30	9	386.1	-160	-30
10	435.8	-160	-30	11	485.5	-160	-30	12	535.2	-160	-30	13	585	-160	-30
14	634.7	-160	-30	15	684.4	-160	-30	16	734.1	-160	-30	17	783.8	-160	-30
18	833.6	-160	-30	19	883.3	-160	-30	20	933	-160	-30	21	982.7	-160	-30
22	1032.5	-160	-30	23	1082.2	-160	-30	24	1131.9	-160	-30	25	1181.6	-160	-30
26	1231.3	-160	-30	27	1281.1	-160	-30	28	1330.8	-160	-30	29	1380.5	-160	-30
30	1430.2	-160	-30	31	1480	-160	-30	32	1529.7	-160	-30	33	1579.4	-160	-30
34	1629.1	-160	-30	35	1678.9	-160	-30	36	1728.6	-160	-30	37	1778.3	-160	-30
38	1828	-160	-30	39	1877.7	-160	-30	40	1927.5	-160	-30	41	1977.2	-160	-30
42	2026.9	-160	-30	43	2076.6	-160	-30	44	2126.4	-160	-30	45	2176.1	-160	-30
46	2225.8	-160	-30	47	2275.5	-160	-30	48	2325.3	-160	-30	49	2375	-160	-30
50	2424.7	-160	-30	51	2474.4	-160	-30	52	2524.1	-160	-30	53	2573.9	-160	-30
54	2623.6	-160	-30	55	2673.3	-160	-30	56	2723	-160	-30	57	2772.8	-160	-30
58	2822.5	-160	-30	59	2872.2	-160	-30	60	2921.9	-160	-30	61	2971.7	-160	-30
62	3021.4	-160	-30	63	3071.1	-160	-30	64	3120.8	-160	-30	65	3170.5	-160	-30
66	3220.3	-160	-30	67	3270	-160	-30	68	3319.7	-160	-30	69	3369.4	-160	-30
70	3419.2	-160	-30	71	3468.9	-160	-30	72	3518.6	-160	-30	73	3568.3	-160	-30
74	3618	-160	-30	75	3667.8	-160	-30	76	3717.5	-160	-30	77	3767.2	-160	-30

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
78	3816.9	-160	-30	79	3866.7	-160	-30	80	3916.4	-160	-30	81	3966.1	-160	-30
82	4015.8	-160	-30	83	4065.6	-160	-30	84	4115.3	-160	-30	85	4152.5	-160	-30
86	4165	-160	-30	87	38	-109.3	-30	88	4152.5	-109.3	-30	89	4165	-109.3	-30
90	435.8	-109.3	-30	91	1032.5	-109.3	-30	92	1629.1	-109.3	-30	93	2971.7	-109.3	-30
94	3568.3	-109.3	-30	95	386.1	-109.3	-30	96	485.5	-109.3	-30	97	982.7	-109.3	-30
98	1082.2	-109.3	-30	99	1579.4	-109.3	-30	100	1678.9	-109.3	-30	101	2375	-109.3	-30
102	2424.7	-109.3	-30	103	2921.9	-109.3	-30	104	3021.4	-109.3	-30	105	3518.6	-109.3	-30
106	3618	-109.3	-30	107	4115.3	-109.3	-30	108	336.3	-109.3	-30	109	535.2	-109.3	-30
110	933	-109.3	-30	111	1131.9	-109.3	-30	112	1529.7	-109.3	-30	113	1728.6	-109.3	-30
114	2325.2	-109.3	-30	115	2474.4	-109.3	-30	116	2872.2	-109.3	-30	117	3071.1	-109.3	-30
118	3468.9	-109.3	-30	119	3667.8	-109.3	-30	120	4065.6	-109.3	-30	121	286.6	-109.3	-30
122	584.9	-109.3	-30	123	883.3	-109.3	-30	124	1181.6	-109.3	-30	125	1479.9	-109.3	-30
126	1778.3	-109.3	-30	127	2275.5	-109.3	-30	128	2524.2	-109.3	-30	129	2822.5	-109.3	-30
130	3120.8	-109.3	-30	131	3419.2	-109.3	-30	132	3717.5	-109.3	-30	133	4015.9	-109.3	-30
134	236.9	-109.2	-30	135	634.6	-109.2	-30	136	833.5	-109.2	-30	137	1231.3	-109.2	-30
138	1430.2	-109.2	-30	139	1827.9	-109.2	-30	140	2225.7	-109.2	-30	141	2574	-109.2	-30
142	2772.9	-109.2	-30	143	3170.6	-109.2	-30	144	3369.5	-109.2	-30	145	3767.3	-109.2	-30
146	3966.2	-109.2	-30	147	87.7	-109.1	-30	148	187.1	-109.1	-30	149	684.3	-109.1	-30
150	783.8	-109.1	-30	151	1281	-109.1	-30	152	1380.4	-109.1	-30	153	2623.8	-109.1	-30
154	2723.3	-109.1	-30	155	3220.4	-109.1	-30	156	3319.9	-109.1	-30	157	3817.1	-109.1	-30
158	3916.5	-109.1	-30	159	1877.6	-109.1	-30	160	137.4	-109	-30	161	734	-109	-30
162	1330.6	-109	-30	163	2673.6	-109	-30	164	3270.2	-109	-30	165	3866.8	-109	-30
166	2175.5	-108.7	-30	167	2125.6	-108.4	-30	168	1926.9	-108.4	-30	169	1976.4	-108.2	-30
170	2026.1	-108.2	-30	171	2075.6	-108	-30	172	38	-58.6	-30	173	4152.5	-58.6	-30
174	4165	-58.6	-30	175	435.8	-58.6	-30	176	1032.5	-58.6	-30	177	1629.1	-58.6	-30
178	2971.7	-58.6	-30	179	3568.3	-58.6	-30	180	4115.3	-58.6	-30	181	386.1	-58.6	-30
182	485.5	-58.6	-30	183	982.7	-58.6	-30	184	1082.2	-58.6	-30	185	1579.4	-58.6	-30
186	1678.9	-58.6	-30	187	2921.9	-58.6	-30	188	3021.4	-58.6	-30	189	3518.6	-58.6	-30
190	3618.1	-58.6	-30	191	2375	-58.6	-30	192	2424.7	-58.6	-30	193	336.3	-58.6	-30
194	535.2	-58.6	-30	195	933	-58.6	-30	196	1131.9	-58.6	-30	197	1529.7	-58.6	-30
198	1728.5	-58.6	-30	199	2325.2	-58.6	-30	200	2474.5	-58.6	-30	201	2872.2	-58.6	-30
202	3071.1	-58.6	-30	203	3468.9	-58.6	-30	204	3667.8	-58.6	-30	205	4065.6	-58.6	-30
206	286.6	-58.5	-30	207	584.9	-58.5	-30	208	883.2	-58.5	-30	209	1181.5	-58.5	-30
210	1479.9	-58.5	-30	211	1778.2	-58.5	-30	212	2275.4	-58.5	-30	213	2524.3	-58.5	-30
214	2822.6	-58.5	-30	215	3120.9	-58.5	-30	216	3419.3	-58.5	-30	217	3717.6	-58.5	-30
218	4015.9	-58.5	-30	219	236.8	-58.1	-30	220	634.5	-58.1	-30	221	1231.1	-58.1	-30
222	2773.2	-58.1	-30	223	3369.8	-58.1	-30	224	3767.5	-58.1	-30	225	3966.4	-58.1	-30
226	1827.7	-58.1	-30	227	87.6	-57.8	-30	228	2574.7	-57.7	-30	229	3171.2	-57.7	-30
230	2225	-57.7	-30	231	187.1	-57.7	-30	232	1429.8	-57.7	-30	233	684.1	-57.6	-30
234	1280.6	-57.6	-30	235	2723.9	-57.6	-30	236	3320.4	-57.6	-30	237	3916.9	-57.6	-30
238	833.3	-57.5	-30	239	137.3	-57.4	-30	240	3221.3	-57.2	-30	241	1876.8	-57.1	-30
242	1379.9	-57.1	-30	243	783.4	-57.1	-30	244	3817.7	-57.1	-30	245	2624.9	-57.1	-30
246	2674.8	-56.9	-30	247	1330	-56.9	-30	248	3867.6	-56.9	-30	249	3271.2	-56.8	-30
250	733.6	-56.7	-30	251	2174.4	-56.6	-30	252	1925.5	-55.6	-30	253	2123.9	-55.6	-30
254	2074.1	-55.3	-30	255	2024.4	-55.2	-30	256	1974.8	-55.2	-30	257	38	-8	-30
258	4152.5	-8	-30	259	4165	-8	-30	260	435.8	-7.9	-30	261	1032.5	-7.9	-30
262	1629.1	-7.9	-30	263	2971.7	-7.9	-30	264	3568.3	-7.9	-30	265	4115.3	-7.9	-30
266	386.1	-7.9	-30	267	485.5	-7.9	-30	268	982.7	-7.9	-30	269	1082.2	-7.9	-30
270	1579.4	-7.9	-30	271	1678.8	-7.9	-30	272	2922	-7.9	-30	273	3021.4	-7.9	-30
274	3518.6	-7.9	-30	275	3618.1	-7.9	-30	276	2375	-7.9	-30	277	2424.7	-7.9	-30
278	336.3	-7.8	-30	279	535.2	-7.8	-30	280	933	-7.8	-30	281	1131.8	-7.8	-30
282	1529.6	-7.8	-30	283	1728.5	-7.8	-30	284	2872.3	-7.8	-30	285	3071.2	-7.8	-30
286	3469	-7.8	-30	287	3667.8	-7.8	-30	288	4065.6	-7.8	-30	289	2325.1	-7.8	-30
290	2474.6	-7.8	-30	291	584.8	-7.4	-30	292	1181.4	-7.4	-30	293	2822.9	-7.4	-30
294	3419.5	-7.4	-30	295	4016.1	-7.4	-30	296	1778	-7.4	-30	297	2525	-7	-30
298	3718	-7	-30	299	3121.5	-6.9	-30	300	883	-6.9	-30	301	1479.5	-6.9	-30
302	286.5	-6.9	-30	303	2274.6	-6.8	-30	304	634.3	-6.5	-30	305	1230.7	-6.5	-30
306	2774	-6.5	-30	307	3370.4	-6.5	-30	308	3966.8	-6.5	-30	309	1827.1	-6.5	-30
310	3768.2	-6	-30	311	236.7	-5.9	-30	312	87.5	-5.6	-30	313	2575.9	-5.6	-30
314	3172.3	-5.4	-30	315	832.9	-5.3	-30	316	2223.6	-5.3	-30	317	1429	-5.3	-30
318	683.6	-5	-30	319	1279.8	-5	-30	320	3321.7	-5	-30	321	3917.8	-5	-30
322	1875.6	-4.6	-30	323	186.9	-4.5	-30	324	2726	-4.5	-30	325	3818.8	-4.3	-30
326	1378.8	-4	-30	327	782.8	-4	-30	328	3223.2	-3.7	-30	329	2627.3	-3.7	-30
330	137	-3.6	-30	331	2172.3	-3.3	-30	332	732.9	-3.2	-30	333	1328.7	-3.2	-30
334	3869.1	-3.2	-30	335	3273.4	-3	-30	336	2677.7	-2.9	-30	337	1923.2	-1.3	-30
338	2120.8	-1.2	-30	339	2071.1	-0.8	-30	340	2021.5	-0.5	-30	341	1972.1	-0.5	-30
342	38	42.7	-30	343	4152.5	42.7	-30	344	4165	42.7	-30	345	435.8	42.8	-30
346	1032.4	42.8	-30	347	1629.1	42.8	-30	348	2971.7	42.8	-30	349	3568.3	42.8	-30
350	4115.3	42.8	-30	351	386.1	42.8	-30	352	485.5	42.8	-30	353	982.7	42.8	-30
354	1082.1	42.8	-30	355	1579.4	42.8	-30	356	1678.8	42.8	-30	357	2922	42.8	-30
358	3021.4	42.8	-30	359	3518.7	42.8	-30	360	3618.1	42.8	-30	361	2374.9	42.8	-30
362	2424.8	42.8	-30	363	4065.7	43.1	-30	364	535.1	43.1	-30	365	1131.7	43.1	-30
366	1728.4	43.1	-30	367	2872.5	43.1	-30	368	3071.3	43.1	-30	369	3469.1	43.1	-30
370	3667.9	43.1	-30	371	2325	43.1	-30	372	2475.1	43.5	-30	373	1529.3	43.6	-30
374	336.2	43.7	-30	375	932.8	43.7	-30	376	584.6	44	-30	377	1181.1	44	-30
378	2823.5	44	-30	379	3420	44	-30	380	4016.5	44	-30	381	1777.5	44	-30
382	2274.2	44.3	-30	383	2525.6	44.4	-30	384	3718.3	44.4	-30	385	3122.3	44.9	-30
386	1479	45	-30	387	286.4	45.1	-30	388	882.5	45.6	-30	389	633.8	46	-30
390	1229.9	46	-30	391	2775.6	46	-30	392	3371.7	46	-30	393	3967.8	46	-30
394	1826	46	-30	395	3769.1	46.5	-30	396	3173.5	47	-30	397	2577.6	47	-30
398	2222	47.2	-30	399	236.5	47.4	-30	400	1428.1	47.5	-30	401	832	48.4	-30
402	87.2	48.4	-30	403	682.5	49.6	-30	404	1278	49.6	-30	405	2728.9	49.6	-30
406	3324.4	49.6	-30	407	3919.9	49.6	-30	408	1873.4	49.7	-30	409	3820.8	50.3	-30
410	186.4	50.7	-30	411	1376.9	50.8	-30	412	2630.5	50.8	-30	413	3225.8	50.9	-30
414	2169.2	50.9	-30	415	781.5	51.4	-30	416	136.4	53.7	-30	417	731.1	54	-30
418	1325.8	54	-30	419	3872.3	54	-30	420	2683.1	54.1	-30	421	3277.7	54.2	-30
422	2067	54.9	-30	423	2017.7	55.3	-30	424	1968.4	55.7	-30	425	1919.2	55.8	-30
426	2115.3	56.2	-30	427	38	93.4	-30	428	4152.5	93.4	-30	429	4165	93.4	-30
430	435.8	93.5	-30	431	1032.4	93.5	-30	432	1629.1	93.5	-30	433	2971.7	93.5	-30
434	3568.4	93.5	-30	435	4115.3	93.5	-30	436	386	93.5	-30	437	485.5	93.5	-30
438	1082.1	93.5	-30	439	1579.3	93.5	-30	440	1678.8	93.5	-30	441	2922	93.5	-30
442	3021.5	93.5	-30	443	3518.7	93.5	-30	444	3618.1	93.5	-30	445	2374.9	93.6	-30
446	2424.8	93.6	-30	447	4065.9	94	-30	448	535.1	94	-30	449	1131.6	94	-30
450	1728.2	94	-30	451	2872.7	94	-30	452	3071.5	94	-30	453	3469.3	94	-30
454	3668.1	94	-30	455	2324.7	94	-30	456	982.5	94.1	-30	457	2475.4	94.5	-30
458	336.2	94.6	-30	459	1529.2	94.6	-30	460	932.5	95.3	-30	461	584.4	95.5	-30
462	2824.3	95.5	-30	463	3420.6	95.5	-30	464	1777	95.5	-30	465	4017.2	96	-30

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
466	1180.4	96.1	-30	467	3718.9	96.2	-30	468	1478.7	96.2	-30	469	2526.6	96.3	-30
470	3122.8	96.3	-30	471	2272.7	96.7	-30	472	286.3	96.9	-30	473	882.1	97.8	-30
474	2777.6	99.1	-30	475	3174.4	99.1	-30	476	3373.3	99.1	-30	477	3770.1	99.1	-30
478	1824.5	99.1	-30	479	2579.5	99.9	-30	480	2220.2	100.1	-30	481	3969.5	100.1	-30
482	632.8	100.3	-30	483	1228.2	100.5	-30	484	1427.1	100.5	-30	485	236.2	100.7	-30
486	831.3	101.8	-30	487	86.7	104.5	-30	488	1374.7	106.4	-30	489	2634.7	106.4	-30
490	3229.1	106.4	-30	491	3823.5	106.4	-30	492	2165.1	106.4	-30	493	2734.6	106.9	-30
494	3328.9	106.9	-30	495	1869.3	106.9	-30	496	3923.4	107.4	-30	497	1274.8	107.5	-30
498	680.6	107.6	-30	499	185.9	107.6	-30	500	779.9	108.2	-30	501	2013.8	111.2	-30
502	2061.3	112.6	-30	503	1964	113.1	-30	504	135	120	-30	505	727	120	-30
506	1319	120	-30	507	1911	120	-30	508	2104	120	-30	509	2696	120	-30
510	3288	120	-30	511	3880	120	-30	512	38	144.1	-30	513	4152.5	144.1	-30
514	4165	144.1	-30	515	435.8	144.2	-30	516	1032.4	144.2	-30	517	1629.1	144.2	-30
518	2971.7	144.2	-30	519	3568.4	144.2	-30	520	4115.4	144.3	-30	521	386	144.3	-30
522	485.5	144.3	-30	523	1579.3	144.3	-30	524	1678.7	144.3	-30	525	2922.1	144.3	-30
526	3021.5	144.3	-30	527	3518.7	144.3	-30	528	3618.1	144.3	-30	529	2425.1	144.7	-30
530	1081.9	144.8	-30	531	982.5	144.8	-30	532	3668.2	144.8	-30	533	2374.5	144.9	-30
534	2873.2	145.2	-30	535	3071.9	145.3	-30	536	4066.2	145.3	-30	537	336.2	145.4	-30
538	1727.7	145.5	-30	539	3469.8	145.5	-30	540	534.8	145.5	-30	541	1529	145.5	-30
542	2475.7	145.5	-30	543	1131.1	145.8	-30	544	2323.8	145.8	-30	545	932.3	146.6	-30
546	2824.7	146.7	-30	547	3719.1	147.3	-30	548	1776.2	147.4	-30	549	3421.4	147.4	-30
550	1478.3	147.8	-30	551	3123.4	147.8	-30	552	286.3	147.9	-30	553	4018	148.3	-30
554	1179.7	148.4	-30	555	583.8	148.4	-30	556	2527.9	148.4	-30	557	2271.5	148.8	-30
558	881.9	149.2	-30	559	2778.7	150.9	-30	560	3374.1	150.9	-30	561	1823.7	150.9	-30
562	236.2	151.7	-30	563	2581.2	152.6	-30	564	3771.6	152.8	-30	565	1426.3	152.9	-30
566	3176.6	152.9	-30	567	2218.3	152.9	-30	568	3970.7	153.1	-30	569	632.1	153.6	-30
570	1227	153.7	-30	571	830.9	154.1	-30	572	86.6	156.5	-30	573	2636.4	158.9	-30
574	2735.8	158.9	-30	575	3329.8	158.9	-30	576	1868.5	158.9	-30	577	2163.5	158.9	-30
578	1373.3	160.1	-30	579	3825.1	160.1	-30	580	3231.2	160.1	-30	581	185.7	160.1	-30
582	3924.7	160.5	-30	583	1273.7	160.6	-30	584	679.8	160.9	-30	585	779.2	161.2	-30
586	2012	164.4	-30	587	2059.4	165.5	-30	588	1962.4	166.1	-30	589	135	170.5	-30
590	727	170.5	-30	591	1319	170.5	-30	592	1911	170.5	-30	593	2104	170.5	-30
594	2696	170.5	-30	595	3288	170.5	-30	596	3880	170.5	-30	597	38	194.8	-30
598	4152.5	194.8	-30	599	4165	194.8	-30	600	435.8	194.8	-30	601	1032.4	194.8	-30
602	1629.1	194.8	-30	603	2971.7	194.8	-30	604	3568.4	194.8	-30	605	4115.4	195	-30
606	386	195	-30	607	1678.7	195	-30	608	2922.1	195	-30	609	3518.7	195	-30
610	3618.1	195	-30	611	3021.9	195.5	-30	612	1081.8	195.5	-30	613	982.5	195.5	-30
614	2374.4	195.6	-30	615	2425	195.6	-30	616	3668.2	195.6	-30	617	1579	195.6	-30
618	485.3	195.6	-30	619	2873.3	196	-30	620	336.2	196.1	-30	621	1727.6	196.3	-30
622	3469.9	196.3	-30	623	3072.4	196.7	-30	624	1131	196.7	-30	625	1528.7	197	-30
626	4066.7	197.1	-30	627	534.6	197.1	-30	628	2476.4	197.2	-30	629	932.3	197.5	-30
630	2322.9	197.5	-30	631	2824.9	197.5	-30	632	286.3	198.3	-30	633	1776	198.3	-30
634	3421.6	198.3	-30	635	3719.9	199.5	-30	636	1477.7	199.8	-30	637	2528.7	200.1	-30
638	1179.2	200.1	-30	639	4018.7	200.3	-30	640	2270.7	200.4	-30	641	881.8	200.4	-30
642	3124.7	200.4	-30	643	583.3	200.7	-30	644	1823.4	202	-30	645	2779.1	202	-30
646	3374.4	202	-30	647	236.1	202.7	-30	648	2582.3	204.5	-30	649	2217.4	204.6	-30
650	1425.6	205	-30	651	3772.5	205.1	-30	652	3177.8	205.2	-30	653	3971.5	205.3	-30
654	1226.6	205.3	-30	655	830.6	205.6	-30	656	631.7	205.8	-30	657	86.5	207.5	-30
658	1868.1	210.1	-30	659	2163	210.1	-30	660	2636.9	210.1	-30	661	2736.3	210.1	-30
662	3330.2	210.1	-30	663	185.6	211.3	-30	664	1273.4	211.9	-30	665	3825.7	212	-30
666	1372.7	212	-30	667	3232.2	212.1	-30	668	679.6	212.2	-30	669	3925.3	212.3	-30
670	778.9	212.8	-30	671	2060.1	215.1	-30	672	2011.5	215.5	-30	673	1961.6	217.7	-30
674	135	220.9	-30	675	727	220.9	-30	676	1319	220.9	-30	677	1911	220.9	-30
678	2104	220.9	-30	679	2696	220.9	-30	680	3288	220.9	-30	681	3880	220.9	-30
682	38	245.5	-30	683	4152.5	245.5	-30	684	4165	245.5	-30	685	435.8	245.5	-30
686	1032.4	245.5	-30	687	1629.1	245.5	-30	688	2971.7	245.5	-30	689	3568.4	245.5	-30
690	4115.4	245.6	-30	691	386	245.7	-30	692	1678.7	245.7	-30	693	2922.1	245.7	-30
694	3518.7	245.7	-30	695	3021.9	246.2	-30	696	3618.5	246.2	-30	697	982.5	246.3	-30
698	336.3	246.3	-30	699	2374.4	246.3	-30	700	2425	246.3	-30	701	1081.8	246.3	-30
702	1579	246.3	-30	703	485.3	246.4	-30	704	2873.3	246.7	-30	705	1727.6	247	-30
706	3470	247	-30	707	3668.8	247.4	-30	708	1528.6	247.8	-30	709	1130.8	247.9	-30
710	2476.5	248	-30	711	3072.9	248	-30	712	4066.9	248.1	-30	713	534.5	248.1	-30
714	932.3	248.1	-30	715	286.4	248.3	-30	716	2824.9	248.3	-30	717	2322.8	248.3	-30
718	1776	249.1	-30	719	3421.7	249.1	-30	720	2528.7	250.7	-30	721	3720.5	251.2	-30
722	881.7	251.3	-30	723	1179	251.3	-30	724	4018.9	251.3	-30	725	2270.4	251.4	-30
726	1477.2	251.6	-30	727	583.2	251.8	-30	728	3125.3	251.9	-30	729	1823.4	252.8	-30
730	2779.2	252.8	-30	731	3374.5	252.8	-30	732	236.1	253.3	-30	733	2582.3	255.1	-30
734	2216.9	255.8	-30	735	1226.4	256.3	-30	736	3971.8	256.5	-30	737	631.6	256.6	-30
738	830.5	256.7	-30	739	3773.1	256.9	-30	740	1425	256.9	-30	741	3178.7	257.2	-30
742	86.5	258.2	-30	743	1868	260.8	-30	744	2162.9	260.8	-30	745	2637	260.8	-30
746	2736.4	260.8	-30	747	3330.4	260.8	-30	748	185.6	261.6	-30	749	1273.4	262.3	-30
750	3925.3	262.8	-30	751	679.6	263	-30	752	1372.4	263.2	-30	753	3826.2	263.4	-30
754	778.9	263.4	-30	755	3232.9	263.6	-30	756	2060.6	264.9	-30	757	2011.3	266.3	-30
758	1961.6	268.3	-30	759	135	271.4	-30	760	727	271.4	-30	761	1319	271.4	-30
762	1911	271.4	-30	763	2104	271.4	-30	764	2696	271.4	-30	765	3288	271.4	-30
766	3880	271.4	-30	767	38	296.1	-30	768	4152.5	296.1	-30	769	4165	296.1	-30
770	435.8	296.2	-30	771	1032.4	296.2	-30	772	1629.1	296.2	-30	773	3568.4	296.2	-30
774	4115.4	296.3	-30	775	386	296.3	-30	776	1678.7	296.3	-30	777	2922.1	296.3	-30
778	3518.7	296.3	-30	779	2972	296.6	-30	780	982.5	296.9	-30	781	485.3	296.9	-30
782	336.3	297	-30	783	2374.4	297	-30	784	1081.8	297	-30	785	2425	297	-30
786	3618.5	297	-30	787	3022.2	297.3	-30	788	2873.3	297.4	-30	789	1578.8	297.5	-30
790	1727.6	297.7	-30	791	3470	297.7	-30	792	3669.1	298.7	-30	793	2476.5	298.7	-30
794	4066.9	298.8	-30	795	2322.9	298.9	-30	796	932.2	298.9	-30	797	286.3	298.9	-30
798	2824.9	298.9	-30	799	534.4	298.9	-30	800	1130.5	299.1	-30	801	1528.2	299.3	-30
802	3073.7	299.8	-30	803	1776	299.8	-30	804	3421.7	299.8	-30	805	2528.9	301.5	-30
806	881.7	301.8	-30	807	4018.8	301.9	-30	808	2270.2	302.3	-30	809	3720.8	302.5	-30
810	1178.7	302.5	-30	811	583.1	302.6	-30	812	1476.7	303.2	-30	813	1823.3	303.4	-30
814	2779.2	303.4	-30	815	3374.6	303.4	-30	816	3126	303.6	-30	817	236.1	304	-30
818	2582.6	306	-30	819	1226.5	306.7	-30	820	3971.6	306.7	-30	821	2216.6	306.7	-30
822	631.5	307.7	-30	823	3773.2	307.7	-30	824	830.3	307.8	-30	825	1424.6	308.3	-30
826	3179.2	308.4	-30	827	86.5	308.7	-30	828	1868	311.4	-30	829	2736.5	311.4	-30
830	3330.4	311.4	-30	831	2637.4	311.7	-30	832	2162.4	311.8	-30	833	185.6	312.2	-30
834	1273.6	312.3	-30	835	3925.1	312.8	-30	836	679.6	313.3	-30	837	778.9	314	-30
838	1372.2	314.2	-30	839	3826.4	314.4	-30	840	3233.4	314.8	-30	841	2060.9	315	-30
842	2011.6	316.4	-30	843	1961.4	318.9	-30	844	135	321.8	-30	845	727	321.8	-30
846	1319	321.8	-30	847	1911	321.8	-30	848	2104	321.8	-30	849	2696	321.8	-30
850	3288	321.8	-30	851	3880	321.8	-30	852	38	346.8	-30	853	4152.5	346.8	-30

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
854	4165	346.8	-30	855	435.8	346.9	-30	856	1032.4	346.9	-30	857	1629.1	346.9	-30
858	3568.4	346.9	-30	859	386	347	-30	860	1678.7	347	-30	861	2922.1	347	-30
862	3518.7	347	-30	863	2972.1	347.4	-30	864	2425	347.5	-30	865	4115.7	347.6	-30
866	1081.8	347.6	-30	867	2374.4	347.6	-30	868	336.3	347.6	-30	869	3618.5	347.7	-30
870	982.5	347.7	-30	871	485.3	347.7	-30	872	2873.3	348.1	-30	873	1578.8	348.2	-30
874	1727.6	348.4	-30	875	3470	348.4	-30	876	3022.7	348.6	-30	877	2476.5	349.2	-30
878	932.3	349.3	-30	879	4066.9	349.4	-30	880	286.3	349.6	-30	881	2825	349.6	-30
882	3669.3	349.7	-30	883	1130.6	349.7	-30	884	534.3	350	-30	885	2322.5	350	-30
886	1528.2	350.1	-30	887	1776	350.4	-30	888	3421.7	350.4	-30	889	3074.2	351.2	-30
890	2529	352.3	-30	891	4018.7	352.3	-30	892	1178.8	353	-30	893	881.5	353	-30
894	583.1	353.3	-30	895	2269.6	353.6	-30	896	3721.1	353.6	-30	897	1476.7	353.9	-30
898	1823.3	354.1	-30	899	2779.2	354.1	-30	900	3374.6	354.1	-30	901	236.1	354.7	-30
902	3126.4	354.7	-30	903	2582.8	356.9	-30	904	1226.7	356.9	-30	905	3971.6	357.2	-30
906	2216	358	-30	907	631.5	358	-30	908	830.3	358.5	-30	909	3773.5	358.8	-30
910	1424.6	359.1	-30	911	3179.3	359.2	-30	912	86.5	359.3	-30	913	1868	361.9	-30
914	2736.5	361.9	-30	915	3330.4	361.9	-30	916	1273.8	362.5	-30	917	185.6	362.7	-30
918	2637.8	362.8	-30	919	2162	362.8	-30	920	3924.9	363	-30	921	679.7	363.8	-30
922	778.9	364.6	-30	923	1372	365.1	-30	924	3826.6	365.2	-30	925	3233.4	365.4	-30
926	2060.9	365.5	-30	927	2011.7	366.8	-30	928	1961.6	369.2	-30	929	135	372.3	-30
930	727	372.3	-30	931	1319	372.3	-30	932	1911	372.3	-30	933	2104	372.3	-30
934	2696	372.3	-30	935	3288	372.3	-30	936	3880	372.3	-30	937	38	397.5	-30
938	4152.5	397.5	-30	939	4165	397.5	-30	940	435.8	397.6	-30	941	1032.4	397.6	-30
942	1629.1	397.6	-30	943	3568.4	397.6	-30	944	386	397.7	-30	945	1678.7	397.7	-30
946	2922.1	397.7	-30	947	3518.7	397.7	-30	948	2424.8	397.7	-30	949	2972.1	398.1	-30
950	1081.9	398.2	-30	951	982.5	398.2	-30	952	485.3	398.2	-30	953	4115.7	398.3	-30
954	336.3	398.3	-30	955	3618.6	398.5	-30	956	2374.2	398.6	-30	957	2873.3	398.8	-30
958	1578.8	398.8	-30	959	1727.6	399	-30	960	3470	399	-30	961	2476	399.3	-30
962	3022.9	399.6	-30	963	4066.7	399.6	-30	964	1130.6	400.2	-30	965	286.3	400.2	-30
966	2825	400.2	-30	967	932.2	400.4	-30	968	534.4	400.5	-30	969	1528.2	400.6	-30
970	3669.6	401	-30	971	2322.2	401.1	-30	972	1776	401.1	-30	973	3421.7	401.1	-30
974	3074.1	401.7	-30	975	2528.8	402.7	-30	976	4018.7	402.9	-30	977	881.6	403.4	-30
978	1178.9	403.4	-30	979	583.2	403.6	-30	980	2269.4	404.5	-30	981	3721.2	404.5	-30
982	1476.7	404.5	-30	983	1823.3	404.7	-30	984	2779.2	404.7	-30	985	3374.6	404.7	-30
986	3126.3	405.2	-30	987	236.1	405.3	-30	988	1226.8	407.2	-30	989	3971.5	407.6	-30
990	2583.1	407.7	-30	991	631.7	407.9	-30	992	2215.9	408.7	-30	993	830.3	408.9	-30
994	3773.5	409.3	-30	995	1424.7	409.4	-30	996	3179.3	409.7	-30	997	86.5	409.9	-30
998	1868	412.5	-30	999	2736.5	412.5	-30	1000	3330.4	412.5	-30	1001	1273.8	413	-30
1002	185.6	413.3	-30	1003	2637.9	413.4	-30	1004	3924.9	413.5	-30	1005	2161.5	414	-30
1006	679.7	414	-30	1007	778.8	415.2	-30	1008	3826.4	415.4	-30	1009	1372.1	415.5	-30
1010	2061.3	415.5	-30	1011	3233.4	415.9	-30	1012	2011.8	417.2	-30	1013	1961.6	419.7	-30
1014	135	422.7	-30	1015	727	422.7	-30	1016	1319	422.7	-30	1017	1911	422.7	-30
1018	2104	422.7	-30	1019	2696	422.7	-30	1020	3288	422.7	-30	1021	3880	422.7	-30
1022	38	448.2	-30	1023	4152.5	448.2	-30	1024	4165	448.2	-30	1025	435.8	448.2	-30
1026	1032.4	448.2	-30	1027	1629.1	448.2	-30	1028	3568.4	448.2	-30	1029	386	448.4	-30
1030	1678.7	448.4	-30	1031	2922.1	448.4	-30	1032	3518.7	448.4	-30	1033	2424.8	448.4	-30
1034	2972	448.7	-30	1035	1081.8	448.9	-30	1036	4115.7	448.9	-30	1037	982.5	448.9	-30
1038	485.3	449	-30	1039	336.3	449	-30	1040	1578.9	449.3	-30	1041	3618.7	449.4	-30
1042	2873.3	449.4	-30	1043	2374	449.5	-30	1044	1727.6	449.6	-30	1045	3470	449.7	-30
1046	3022.6	449.9	-30	1047	4066.7	450.2	-30	1048	2476.3	450.3	-30	1049	1130.7	450.8	-30
1050	534.5	450.8	-30	1051	286.3	450.9	-30	1052	2824.9	450.9	-30	1053	932.2	450.9	-30
1054	2322.3	451.6	-30	1055	1776	451.7	-30	1056	3421.7	451.7	-30	1057	1528	451.7	-30
1058	3669.8	451.9	-30	1059	3074	452.3	-30	1060	4018.6	453.3	-30	1061	2529.1	453.7	-30
1062	1179	453.7	-30	1063	583.4	453.8	-30	1064	881.6	454.2	-30	1065	1476.8	455	-30
1066	2269.4	455.1	-30	1067	1823.3	455.3	-30	1068	2779.2	455.3	-30	1069	3374.6	455.3	-30
1070	3721.3	455.4	-30	1071	3126.1	455.5	-30	1072	236.1	455.9	-30	1073	3971	457.4	-30
1074	1226.9	457.6	-30	1075	631.9	458	-30	1076	2583.3	458.6	-30	1077	830.4	459.5	-30
1078	1424.8	459.6	-30	1079	2215.6	459.6	-30	1080	3773.6	460.1	-30	1081	3179.2	460.2	-30
1082	86.5	460.5	-30	1083	1868	463	-30	1084	2736.5	463	-30	1085	3330.4	463	-30
1086	3924.6	463.5	-30	1087	1273.8	463.6	-30	1088	185.6	463.8	-30	1089	679.9	463.8	-30
1090	2638.3	464.4	-30	1091	2161.1	464.9	-30	1092	778.8	465.7	-30	1093	2061.4	465.9	-30
1094	1372.1	466	-30	1095	3826.4	466	-30	1096	3233.2	466.2	-30	1097	2011.9	467.5	-30
1098	1961.9	469.8	-30	1099	135	473.2	-30	1100	727	473.2	-30	1101	1319	473.2	-30
1102	1911	473.2	-30	1103	2104	473.2	-30	1104	2696	473.2	-30	1105	3288	473.2	-30
1106	3880	473.2	-30	1107	38	498.9	-30	1108	4152.5	498.9	-30	1109	4165	498.9	-30
1110	435.8	498.9	-30	1111	1032.4	498.9	-30	1112	1629.1	498.9	-30	1113	3568.4	498.9	-30
1114	386	499.1	-30	1115	1678.7	499.1	-30	1116	2922.1	499.1	-30	1117	3518.7	499.1	-30
1118	2424.8	499.1	-30	1119	2972.1	499.4	-30	1120	1081.8	499.6	-30	1121	982.5	499.6	-30
1122	4115.7	499.6	-30	1123	485.3	499.6	-30	1124	336.3	499.7	-30	1125	1579	499.8	-30
1126	2873.3	500.1	-30	1127	3618.7	500.2	-30	1128	1727.7	500.2	-30	1129	2373.9	500.3	-30
1130	3469.9	500.3	-30	1131	3022.5	500.3	-30	1132	4066.6	500.8	-30	1133	2476.4	501.1	-30
1134	1130.8	501.2	-30	1135	534.5	501.4	-30	1136	286.4	501.5	-30	1137	2824.9	501.5	-30
1138	932.2	501.7	-30	1139	1528.2	502	-30	1140	1776	502.3	-30	1141	2322.2	502.3	-30
1142	3421.7	502.3	-30	1143	3669.7	502.5	-30	1144	3074	502.9	-30	1145	4018.4	503.6	-30
1146	1179.3	503.7	-30	1147	583.5	503.9	-30	1148	2529.3	504.5	-30	1149	881.5	505.2	-30
1150	1476.9	505.2	-30	1151	2269.5	505.6	-30	1152	3721.1	505.6	-30	1153	1823.4	505.9	-30
1154	2779.2	505.9	-30	1155	3374.5	505.9	-30	1156	3126	506	-30	1157	236.1	506.5	-30
1158	1227.3	507.3	-30	1159	3970.7	507.5	-30	1160	632.1	507.7	-30	1161	2583.4	509.3	-30
1162	1425	509.8	-30	1163	3773.3	510.2	-30	1164	830.3	510.2	-30	1165	2215.5	510.3	-30
1166	3179	510.4	-30	1167	86.5	511	-30	1168	680.2	513.5	-30	1169	1274.1	513.5	-30
1170	1868	513.5	-30	1171	2736.4	513.5	-30	1172	3330.4	513.5	-30	1173	3924.3	513.5	-30
1174	185.6	514.3	-30	1175	2638.4	515	-30	1176	2161	515.6	-30	1177	2061.8	516	-30
1178	1372.3	516.2	-30	1179	778.9	516.2	-30	1180	3233	516.4	-30	1181	3826.4	516.5	-30
1182	2012.6	517.1	-30	1183	1962	520.1	-30	1184	135	523.6	-30	1185	727	523.6	-30
1186	1319	523.6	-30	1187	1911	523.6	-30	1188	2104	523.6	-30	1189	2696	523.6	-30
1190	3288	523.6	-30	1191	3880	523.6	-30	1192	38	549.5	-30	1193	4152.5	549.5	-30
1194	4165	549.5	-30	1195	435.8	549.6	-30	1196	1032.4	549.6	-30	1197	1629.1	549.6	-30
1198	3568.4	549.6	-30	1199	386	549.7	-30	1200	1678.7	549.7	-30	1201	2922.1	549.7	-30
1202	3518.7	549.7	-30	1203	2972	550	-30	1204	4115.6	550.2	-30	1205	1579.1	550.2	-30
1206	1081.9	550.2	-30	1207	485.3	550.2	-30	1208	336.3	550.3	-30	1209	982.5	550.3	-30
1210	2425	550.4	-30	1211	3618.5	550.4	-30	1212	3022.2	550.7	-30	1213	2873.4	550.8	-30
1214	3469.9	550.9	-30	1215	1727.6	551	-30	1216	2374	551.1	-30	1217	4066.5	551.3	-30
1218	1131	551.4	-30	1219	534.7	551.4	-30	1220	2476.6	552.1	-30	1221	286.4	552.1	-30
1222	932.2	552.3	-30	1223	1528.3	552.3	-30	1224	3669.4	552.5	-30	1225	2825.2	552.5	-30
1226	1776.2	552.7	-30	1227	2322.4	552.8	-30	1228	3421.6	552.9	-30	1229	3073.5	552.9	-30
1230	4018.1	553.8	-30	1231	1179.5	554	-30	1232	583.6	554.1	-30	1233	2529	554.8	-30
1234	881.6	555.3	-30	1235	3720.8	555.6	-30	1236	1477	555.7	-30	1237	3125.4	555.8	-30
1238	2269.8	556	-30	1239	1823.4	556.4	-30	1240	3374.4	556.4	-30	1241	2779.5	556.9	-30

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
1242	236.2	556.9	-30	1243	3970.3	557.3	-30	1244	1227.5	557.6	-30	1245	632.3	557.8	-30
1246	2582.7	559.2	-30	1247	830.6	559.9	-30	1248	3772.9	560.1	-30	1249	1425.2	560.1	-30
1250	3178.3	560.2	-30	1251	2215.9	560.4	-30	1252	86.5	561.5	-30	1253	680.2	563.9	-30
1254	1274.2	563.9	-30	1255	1868.1	563.9	-30	1256	2736.3	563.9	-30	1257	3330.2	563.9	-30
1258	3924.2	563.9	-30	1259	185.7	564.7	-30	1260	2638.3	565.4	-30	1261	2161	566.1	-30
1262	1372.5	566.3	-30	1263	3232.5	566.3	-30	1264	3826	566.3	-30	1265	2061.9	566.3	-30
1266	2013.6	566.5	-30	1267	778.9	566.5	-30	1268	1962.7	569.8	-30	1269	135	574.1	-30
1270	727	574.1	-30	1271	1319	574.1	-30	1272	1911	574.1	-30	1273	2104	574.1	-30
1274	2696	574.1	-30	1275	3288	574.1	-30	1276	3880	574.1	-30	1277	38	600.2	-30
1278	4152.5	600.2	-30	1279	4165	600.2	-30	1280	435.8	600.3	-30	1281	1032.4	600.3	-30
1282	1629.1	600.3	-30	1283	2971.7	600.3	-30	1284	3568.4	600.3	-30	1285	4115.4	600.4	-30
1286	386	600.4	-30	1287	485.5	600.4	-30	1288	1082.1	600.4	-30	1289	1678.7	600.4	-30
1290	2922.1	600.4	-30	1291	3518.7	600.4	-30	1292	1579.1	600.9	-30	1293	982.5	600.9	-30
1294	3021.9	600.9	-30	1295	336.3	600.9	-30	1296	3618.4	601	-30	1297	2425.1	601.1	-30
1298	3469.7	601.3	-30	1299	1727.8	601.4	-30	1300	2873.3	601.4	-30	1301	2374.3	601.4	-30
1302	4066.2	601.5	-30	1303	534.9	601.5	-30	1304	1131.3	601.5	-30	1305	2475.9	601.9	-30
1306	932.5	602	-30	1307	286.4	602.6	-30	1308	1528.5	602.6	-30	1309	3072.9	602.6	-30
1310	3669.1	602.6	-30	1311	2322.9	603	-30	1312	3421.4	603.2	-30	1313	1776.3	603.3	-30
1314	2825.4	603.4	-30	1315	4017.8	603.8	-30	1316	583.9	603.8	-30	1317	1179.8	604	-30
1318	2527.9	604.3	-30	1319	881.9	605.1	-30	1320	3720.2	605.1	-30	1321	2270.7	605.5	-30
1322	3124.8	605.7	-30	1323	1477.3	605.7	-30	1324	3374.1	606.6	-30	1325	1823.5	607	-30
1326	3969.8	607.1	-30	1327	2779.4	607.4	-30	1328	632.6	607.4	-30	1329	1227.9	607.4	-30
1330	236.2	607.6	-30	1331	2581.6	608.5	-30	1332	3772.2	609.4	-30	1333	830.9	609.5	-30
1334	1425.7	609.7	-30	1335	2217.1	609.7	-30	1336	3177.6	609.8	-30	1337	86.6	611.7	-30
1338	680.4	613.9	-30	1339	1274.4	613.9	-30	1340	2735.8	613.9	-30	1341	3329.8	613.9	-30
1342	3923.9	613.9	-30	1343	1868.5	613.9	-30	1344	185.7	614.6	-30	1345	2637.4	615	-30
1346	2014.9	615.3	-30	1347	3825.4	615.7	-30	1348	2161.8	615.8	-30	1349	1373	615.8	-30
1350	779.3	615.8	-30	1351	3231.9	615.9	-30	1352	2062.2	616.6	-30	1353	1963.7	619	-30
1354	135	624.5	-30	1355	727	624.5	-30	1356	1319	624.5	-30	1357	1911	624.5	-30
1358	2104	624.5	-30	1359	2696	624.5	-30	1360	3288	624.5	-30	1361	3880	624.5	-30
1362	38	650.9	-30	1363	4152.5	650.9	-30	1364	4165	650.9	-30	1365	435.8	651	-30
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1370	4115.3	651	-30	1371	386	651	-30	1372	485.5	651	-30	1373	982.7	651	-30
1374	1082.1	651	-30	1375	1678.8	651	-30	1376	2922	651	-30	1377	3021.5	651	-30
1378	3518.7	651	-30	1379	2424.8	651.1	-30	1380	336.3	651.5	-30	1381	535.1	651.5	-30
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1390	1131.4	652	-30	1391	932.7	652	-30	1392	3072	652.1	-30	1393	3668.6	652.4	-30
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1402	2825.2	653.8	-30	1403	1180.2	653.9	-30	1404	2272.3	654.4	-30	1405	882.3	654.4	-30
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1414	2579.5	657	-30	1415	236.3	657.1	-30	1416	2778.8	657.3	-30	1417	3771	657.8	-30
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1438	1965.8	666.7	-30	1439	135	675	-30	1440	727	675	-30	1441	1319	675	-30
1442	1911	675	-30	1443	2104	675	-30	1444	2696	675	-30	1445	3288	675	-30
1446	3880	675	-30	1447	38	701.6	-30	1448	4152.5	701.6	-30	1449	4165	701.6	-30
1450	435.8	701.6	-30	1451	1032.4	701.6	-30	1452	1629.1	701.6	-30	1453	2971.7	701.6	-30
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1458	982.7	701.7	-30	1459	1082.1	701.7	-30	1460	1579.4	701.7	-30	1461	1678.8	701.7	-30
1462	2922	701.7	-30	1463	3021.4	701.7	-30	1464	3518.7	701.7	-30	1465	3618.1	701.7	-30
1466	2374.9	701.7	-30	1467	2424.8	701.7	-30	1468	4065.7	701.9	-30	1469	336.3	701.9	-30
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1482	2525.2	702.7	-30	1483	3121.7	702.7	-30	1484	2274.5	702.7	-30	1485	3420.3	703.1	-30
1486	1180.9	703.2	-30	1487	1777.2	703.2	-30	1488	3718.4	703.2	-30	1489	4016.8	703.3	-30
1490	286.4	703.4	-30	1491	882.7	703.4	-30	1492	2824.3	703.6	-30	1493	1478.9	703.7	-30
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1498	2223	704.6	-30	1499	2775.9	705	-30	1500	3769.2	705.1	-30	1501	3968.1	705.2	-30
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1506	832.3	705.9	-30	1507	87.2	706.8	-30	1508	1377.4	707.9	-30	1509	2629.5	707.9	-30
1510	2728.9	707.9	-30	1511	3225	707.9	-30	1512	3324.4	707.9	-30	1513	3820.4	707.9	-30
1514	1873.4	707.9	-30	1515	2170.2	707.9	-30	1516	682.4	708.4	-30	1517	186.5	708.5	-30
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1522	2020	710.2	-30	1523	136.5	711	-30	1524	2067.9	711.6	-30	1525	2682.8	711.7	-30
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1530	1920.3	712	-30	1531	2116.1	712.8	-30	1532	38	752.3	-30	1533	4152.5	752.3	-30
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1538	2971.7	752.3	-30	1539	3568.3	752.3	-30	1540	4115.3	752.3	-30	1541	386.1	752.3	-30
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1546	1678.8	752.3	-30	1547	2922	752.3	-30	1548	3021.4	752.3	-30	1549	3518.6	752.3	-30
1550	3618.1	752.3	-30	1551	2375	752.3	-30	1552	2424.7	752.3	-30	1553	336.3	752.4	-30
1554	535.2	752.4	-30	1555	933	752.4	-30	1556	1131.8	752.4	-30	1557	1529.6	752.4	-30
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1562	3667.8	752.4	-30	1563	4065.6	752.4	-30	1564	2325.1	752.4	-30	1565	2474.6	752.4	-30
1566	584.8	752.8	-30	1567	883.1	752.8	-30	1568	1181.4	752.8	-30	1569	1479.7	752.8	-30
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1574	2275.1	752.8	-30	1575	2823.3	753.2	-30	1576	1777.7	753.2	-30	1577	286.5	753.3	-30
1578	4016.4	753.3	-30	1579	634.3	753.6	-30	1580	833.2	753.6	-30	1581	1429.6	753.6	-30
1582	2575.1	753.6	-30	1583	3171.5	753.6	-30	1584	3370.4	753.6	-30	1585	3768	753.6	-30
1586	2224.6	753.6	-30	1587	2774.4	754	-30	1588	1826.8	754	-30	1589	1230.5	754.1	-30
1590	236.7	754.1	-30	1591	3967.2	754.2	-30	1592	87.5	754.4	-30	1593	186.9	754.9	-30
1594	783.1	754.9	-30	1595	1379.2	754.9	-30	1596	2626.1	754.9	-30	1597	2725.5	754.9	-30
1598	3222.2	754.9	-30	1599	3321.7	754.9	-30	1600	3818.4	754.9	-30	1601	2173.6	754.9	-30
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1610	732.9	756.6	-30	1611	1328.7	756.6	-30	1612	3869	756.6	-30	1613	1924.4	756.7	-30
1614	2023	757.1	-30	1615	2121.6	757.5	-30	1616	2071.8	757.9	-30	1617	38	803	-30
1618	4152.5	803	-30	1619	4165	803	-30	1620	435.8	803	-30	1621	1032.5	803	-30
1622	1629.1	803	-30	1623	2971.7	803	-30	1624	3568.3	803	-30	1625	386.1	803	-30
1626	485.5	803	-30	1627	982.7	803	-30	1628	1082.2	803	-30	1629	1579.4	803	-30

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
1630	1678.9	803	-30	1631	2921.9	803	-30	1632	3021.4	803	-30	1633	3518.6	803	-30
1634	3618.1	803	-30	1635	4115.3	803	-30	1636	2375	803	-30	1637	2424.7	803	-30
1638	336.3	803	-30	1639	535.2	803	-30	1640	933	803	-30	1641	1131.9	803	-30
1642	1529.7	803	-30	1643	1728.5	803	-30	1644	2325.2	803	-30	1645	2474.5	803	-30
1646	2872.2	803	-30	1647	3071.1	803	-30	1648	3468.9	803	-30	1649	3667.8	803	-30
1650	4065.6	803	-30	1651	286.6	803.1	-30	1652	584.9	803.1	-30	1653	883.2	803.1	-30
1654	1181.5	803.1	-30	1655	1479.9	803.1	-30	1656	1778.2	803.1	-30	1657	2275.4	803.1	-30
1658	2524.3	803.1	-30	1659	2822.6	803.1	-30	1660	3120.9	803.1	-30	1661	3419.3	803.1	-30
1662	3717.6	803.1	-30	1663	4015.9	803.1	-30	1664	236.8	803.4	-30	1665	634.5	803.4	-30
1666	833.4	803.4	-30	1667	1231.1	803.4	-30	1668	1430	803.4	-30	1669	2574.3	803.4	-30
1670	2773.2	803.4	-30	1671	3170.9	803.4	-30	1672	3369.8	803.4	-30	1673	3767.5	803.4	-30
1674	3966.4	803.4	-30	1675	1827.7	803.4	-30	1676	2225.4	803.4	-30	1677	87.6	803.7	-30
1678	187.1	803.8	-30	1679	684.1	803.9	-30	1680	783.6	803.9	-30	1681	1280.6	803.9	-30
1682	1380.1	803.9	-30	1683	2624.4	803.9	-30	1684	2723.9	803.9	-30	1685	3220.9	803.9	-30
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1690	137.3	804.1	-30	1691	733.8	804.1	-30	1692	1330.2	804.1	-30	1693	3270.9	804.1	-30
1694	3867.3	804.1	-30	1695	1876.8	804.3	-30	1696	2674.8	804.5	-30	1697	1926.3	804.6	-30
1698	1975.9	804.7	-30	1699	2124.6	804.9	-30	1700	2025.3	805	-30	1701	2074.6	805.3	-30
1702	38	853.6	-30	1703	4152.5	853.6	-30	1704	4165	853.6	-30	1705	435.8	853.6	-30
1706	1032.5	853.6	-30	1707	1629.1	853.6	-30	1708	2971.7	853.6	-30	1709	3568.3	853.6	-30
1710	386.1	853.6	-30	1711	485.5	853.6	-30	1712	982.7	853.6	-30	1713	1082.2	853.6	-30
1714	1579.4	853.6	-30	1715	1678.9	853.6	-30	1716	2375	853.6	-30	1717	2424.7	853.6	-30
1718	2921.9	853.6	-30	1719	3021.4	853.6	-30	1720	3518.6	853.6	-30	1721	3618	853.6	-30
1722	4115.3	853.6	-30	1723	336.3	853.6	-30	1724	535.2	853.6	-30	1725	933	853.6	-30
1726	1131.9	853.6	-30	1727	1529.7	853.6	-30	1728	1728.6	853.6	-30	1729	2325.2	853.6	-30
1730	2474.4	853.6	-30	1731	2872.2	853.6	-30	1732	3071.1	853.6	-30	1733	3468.9	853.6	-30
1734	3667.8	853.6	-30	1735	4065.6	853.6	-30	1736	286.6	853.7	-30	1737	584.9	853.7	-30
1738	883.3	853.7	-30	1739	1181.6	853.7	-30	1740	1479.9	853.7	-30	1741	1778.3	853.7	-30
1742	2275.5	853.7	-30	1743	2524.2	853.7	-30	1744	2822.5	853.7	-30	1745	3120.8	853.7	-30
1746	3419.2	853.7	-30	1747	3717.5	853.7	-30	1748	4015.9	853.7	-30	1749	236.9	853.8	-30
1750	634.6	853.8	-30	1751	833.5	853.8	-30	1752	1231.3	853.8	-30	1753	1430.2	853.8	-30
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1758	3170.6	853.8	-30	1759	3369.5	853.8	-30	1760	3767.3	853.8	-30	1761	3966.2	853.8	-30
1762	87.7	853.8	-30	1763	187.1	853.9	-30	1764	684.3	853.9	-30	1765	783.8	853.9	-30
1766	1281	853.9	-30	1767	1380.4	853.9	-30	1768	2623.8	853.9	-30	1769	2723.3	853.9	-30
1770	3220.4	853.9	-30	1771	3319.9	853.9	-30	1772	3817.1	853.9	-30	1773	3916.5	853.9	-30
1774	1877.6	853.9	-30	1775	2175.9	853.9	-30	1776	137.4	853.9	-30	1777	734	854	-30
1778	1330.6	854	-30	1779	2673.6	854	-30	1780	3270.2	854	-30	1781	3866.8	854	-30
1782	1927.2	854	-30	1783	2026.4	854.3	-30	1784	1976.7	854.3	-30	1785	2125.7	854.4	-30
1786	2075.9	854.5	-30	1787	38	904.3	-30	1788	386.1	904.3	-30	1789	435.8	904.3	-30
1790	485.5	904.3	-30	1791	982.7	904.3	-30	1792	1032.5	904.3	-30	1793	1082.2	904.3	-30
1794	1579.4	904.3	-30	1795	1629.1	904.3	-30	1796	1678.9	904.3	-30	1797	2375	904.3	-30
1798	2424.7	904.3	-30	1799	2921.9	904.3	-30	1800	2971.7	904.3	-30	1801	3021.4	904.3	-30
1802	3518.6	904.3	-30	1803	3568.3	904.3	-30	1804	3618	904.3	-30	1805	4115.3	904.3	-30
1806	4152.5	904.3	-30	1807	4165	904.3	-30	1808	336.3	904.3	-30	1809	535.2	904.3	-30
1810	933	904.3	-30	1811	1131.9	904.3	-30	1812	1529.7	904.3	-30	1813	1728.6	904.3	-30
1814	2325.3	904.3	-30	1815	2474.4	904.3	-30	1816	2872.2	904.3	-30	1817	3071.1	904.3	-30
1818	3468.9	904.3	-30	1819	3667.8	904.3	-30	1820	4065.6	904.3	-30	1821	286.6	904.3	-30
1822	584.9	904.3	-30	1823	883.3	904.3	-30	1824	1181.6	904.3	-30	1825	1480	904.3	-30
1826	1778.3	904.3	-30	1827	2275.5	904.3	-30	1828	2524.2	904.3	-30	1829	2822.5	904.3	-30
1830	3120.8	904.3	-30	1831	3419.2	904.3	-30	1832	3717.5	904.3	-30	1833	4015.8	904.3	-30
1834	236.9	904.3	-30	1835	634.7	904.3	-30	1836	833.6	904.3	-30	1837	1231.3	904.3	-30
1838	1430.2	904.3	-30	1839	1828	904.3	-30	1840	2225.8	904.3	-30	1841	2573.9	904.3	-30
1842	2772.8	904.3	-30	1843	3170.6	904.3	-30	1844	3369.5	904.3	-30	1845	3767.2	904.3	-30
1846	3966.1	904.3	-30	1847	87.7	904.4	-30	1848	2026.9	904.4	-30	1849	187.2	904.4	-30
1850	684.4	904.4	-30	1851	783.8	904.4	-30	1852	1281	904.4	-30	1853	1380.5	904.4	-30
1854	1877.7	904.4	-30	1855	2176	904.4	-30	1856	2623.6	904.4	-30	1857	2723.1	904.4	-30
1858	3220.3	904.4	-30	1859	3319.7	904.4	-30	1860	3817	904.4	-30	1861	3916.4	904.4	-30
1862	1977.2	904.4	-30	1863	2076.6	904.4	-30	1864	137.4	904.4	-30	1865	734.1	904.4	-30
1866	1330.8	904.4	-30	1867	2673.4	904.4	-30	1868	3270	904.4	-30	1869	3866.7	904.4	-30
1870	1927.4	904.4	-30	1871	2126.3	904.4	-30	1872	38	955	-30	1873	87.7	955	-30
1874	137.4	955	-30	1875	187.2	955	-30	1876	236.9	955	-30	1877	286.6	955	-30
1878	336.3	955	-30	1879	386.1	955	-30	1880	435.8	955	-30	1881	485.5	955	-30
1882	535.2	955	-30	1883	585	955	-30	1884	634.7	955	-30	1885	684.4	955	-30
1886	734.1	955	-30	1887	783.8	955	-30	1888	833.6	955	-30	1889	883.3	955	-30
1890	933	955	-30	1891	982.7	955	-30	1892	1032.5	955	-30	1893	1082.2	955	-30
1894	1131.9	955	-30	1895	1181.6	955	-30	1896	1231.3	955	-30	1897	1281.1	955	-30
1898	1330.8	955	-30	1899	1380.5	955	-30	1900	1430.2	955	-30	1901	1480	955	-30
1902	1529.7	955	-30	1903	1579.4	955	-30	1904	1629.1	955	-30	1905	1678.9	955	-30
1906	1728.6	955	-30	1907	1778.3	955	-30	1908	1828	955	-30	1909	1877.7	955	-30
1910	1927.5	955	-30	1911	1977.2	955	-30	1912	2026.9	955	-30	1913	2076.6	955	-30
1914	2126.4	955	-30	1915	2176.1	955	-30	1916	2225.8	955	-30	1917	2275.5	955	-30
1918	2325.3	955	-30	1919	2375	955	-30	1920	2424.7	955	-30	1921	2474.4	955	-30
1922	2524.1	955	-30	1923	2573.9	955	-30	1924	2623.6	955	-30	1925	2673.3	955	-30
1926	2723	955	-30	1927	2772.8	955	-30	1928	2822.5	955	-30	1929	2872.2	955	-30
1930	2921.9	955	-30	1931	2971.7	955	-30	1932	3021.4	955	-30	1933	3071.1	955	-30
1934	3120.8	955	-30	1935	3170.5	955	-30	1936	3220.3	955	-30	1937	3270	955	-30
1938	3319.7	955	-30	1939	3369.4	955	-30	1940	3419.2	955	-30	1941	3468.9	955	-30
1942	3518.6	955	-30	1943	3568.3	955	-30	1944	3618	955	-30	1945	3667.8	955	-30
1946	3717.5	955	-30	1947	3767.2	955	-30	1948	3816.9	955	-30	1949	3866.7	955	-30
1950	3916.4	955	-30	1951	3966.1	955	-30	1952	4015.8	955	-30	1953	4065.6	955	-30
1954	4115.3	955	-30	1955	4152.5	955	-30	1956	4165	955	-30	1957	135	120	0
1958	727	120	0	1959	1319	120	0	1960	1911	120	0	1961	2104	120	0
1962	2696	120	0	1963	3288	120	0	1964	3880	120	0	1965	135	170.5	0
1966	727	170.5	0	1967	1319	170.5	0	1968	1911	170.5	0	1969	2104	170.5	0
1970	2696	170.5	0	1971	3288	170.5	0	1972	3880	170.5	0	1973	135	220.9	0
1974	727	220.9	0	1975	1319	220.9	0	1976	1911	220.9	0	1977	2104	220.9	0
1978	2696	220.9	0	1979	3288	220.9	0	1980	3880	220.9	0	1981	135	271.4	0
1982	727	271.4	0	1983	1319	271.4	0	1984	1911	271.4	0	1985	2104	271.4	0
1986	2696	271.4	0	1987	3288	271.4	0	1988	3880	271.4	0	1989	135	321.8	0
1990	727	321.8	0	1991	1319	321.8	0	1992	1911	321.8	0	1993	2104	321.8	0
1994	2696	321.8	0	1995	3288	321.8	0	1996	3880	321.8	0	1997	135	372.3	0
1998	727	372.3	0	1999	1319	372.3	0	2000	1911	372.3	0	2001	2104	372.3	0
2002	2696	372.3	0	2003	3288	372.3	0	2004	3880	372.3	0	2005	2021.3	397.2	0
2006	135	422.7	0	2007	727	422.7	0	2008	1319	422.7	0	2009	1911	422.7	0
2010	2104	422.7	0	2011	2696	422.7	0	2012	3288	422.7	0	2013	3880	422.7	0
2014	135	473.2	0	2015	727	473.2	0	2016	1319	473.2	0	2017	1911	473.2	0

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
2018	2104	473.2	0	2019	2696	473.2	0	2020	3288	473.2	0	2021	3880	473.2	0
2022	135	523.6	0	2023	727	523.6	0	2024	1319	523.6	0	2025	1911	523.6	0
2026	2104	523.6	0	2027	2696	523.6	0	2028	3288	523.6	0	2029	3880	523.6	0
2030	135	574.1	0	2031	727	574.1	0	2032	1319	574.1	0	2033	1911	574.1	0
2034	2104	574.1	0	2035	2696	574.1	0	2036	3288	574.1	0	2037	3880	574.1	0
2038	135	624.5	0	2039	727	624.5	0	2040	1319	624.5	0	2041	1911	624.5	0
2042	2104	624.5	0	2043	2696	624.5	0	2044	3288	624.5	0	2045	3880	624.5	0
2046	135	675	0	2047	727	675	0	2048	1319	675	0	2049	1911	675	0
2050	2104	675	0	2051	2696	675	0	2052	3288	675	0	2053	3880	675	0
2054	4152.5	-160	22.5	2055	4152.5	-109.3	22.5	2056	4152.5	-58.6	22.5	2057	4152.5	-8	22.5
2058	4152.5	42.7	22.5	2059	4152.5	93.4	22.5	2060	4152.5	144.1	22.5	2061	4152.5	194.8	22.5
2062	4152.5	245.5	22.5	2063	4152.5	296.1	22.5	2064	4152.5	346.8	22.5	2065	4152.5	397.5	22.5
2066	4152.5	448.2	22.5	2067	4152.5	498.9	22.5	2068	4152.5	549.5	22.5	2069	4152.5	600.2	22.5
2070	4152.5	650.9	22.5	2071	4152.5	701.6	22.5	2072	4152.5	752.3	22.5	2073	4152.5	803	22.5
2074	4152.5	853.6	22.5	2075	4152.5	904.3	22.5	2076	4152.5	955	22.5	2077	1911	576.3	46.1
2078	1911	525.2	46.4	2079	1911	473.9	46.6	2080	1911	422.5	47.1	2081	1911	319.7	47.2
2082	1911	371	47.2	2083	135	474.8	47.3	2084	2104	474.8	47.3	2085	1911	268.6	47.3
2086	135	423.5	47.3	2087	2104	423.5	47.3	2088	135	525.8	47.3	2089	2104	525.8	47.3
2090	135	576.4	47.4	2091	2104	576.4	47.4	2092	135	320.8	47.4	2093	2104	320.8	47.4
2094	135	372.2	47.5	2095	2104	372.2	47.6	2096	135	269.7	47.6	2097	2104	269.7	47.6
2098	135	626.5	47.6	2099	2104	626.5	47.6	2100	1911	218.2	47.9	2101	135	219.1	48.1
2102	2104	219.1	48.1	2103	1911	625.8	48.2	2104	1911	168.5	48.7	2105	135	169.2	48.9
2106	2104	169.2	48.9	2107	727	221	50	2108	1319	221	50	2109	2696	221	50
2110	3288	221	50	2111	727	271.5	50	2112	1319	271.5	50	2113	2696	271.5	50
2114	3288	271.5	50	2115	727	321.9	50	2116	1319	321.9	50	2117	2696	321.9	50
2118	3288	321.9	50	2119	727	372.3	50	2120	1319	372.3	50	2121	2696	372.3	50
2122	3288	372.3	50	2123	727	422.7	50	2124	1319	422.7	50	2125	2696	422.7	50
2126	3288	422.7	50	2127	727	473.1	50	2128	1319	473.1	50	2129	2696	473.1	50
2130	3288	473.1	50	2131	727	523.5	50	2132	1319	523.5	50	2133	2696	523.5	50
2134	3288	523.5	50	2135	727	574	50	2136	1319	574	50	2137	2696	574	50
2138	3288	574	50	2139	727	170.5	50	2140	1319	170.5	50	2141	2696	170.5	50
2142	3288	170.5	50	2143	727	624.5	50	2144	1319	624.5	50	2145	2696	624.5	50
2146	3288	624.5	50	2147	135	120	50	2148	727	120	50	2149	1319	120	50
2150	1911	120	50	2151	2104	120	50	2152	2696	120	50	2153	3288	120	50
2154	3880	120	50	2155	135	675	50	2156	727	675	50	2157	1319	675	50
2158	1911	675	50	2159	2104	675	50	2160	2696	675	50	2161	3288	675	50
2162	3880	675	50	2163	3880	170.5	50.3	2164	3880	624.5	50.3	2165	3880	221	50.6
2166	3880	574	50.6	2167	3880	271.4	50.9	2168	3880	523.6	50.9	2169	3880	321.9	51
2170	3880	473.1	51	2171	3880	372.3	51.1	2172	3880	422.7	51.1	2173	4152.5	-160	75
2174	4152.5	-109.3	75	2175	4152.5	-58.6	75	2176	4152.5	-8	75	2177	4152.5	42.7	75
2178	4152.5	93.4	75	2179	4152.5	144.1	75	2180	4152.5	194.8	75	2181	4152.5	245.5	75
2182	4152.5	296.1	75	2183	4152.5	346.8	75	2184	4152.5	397.5	75	2185	4152.5	448.2	75
2186	4152.5	498.9	75	2187	4152.5	549.5	75	2188	4152.5	600.2	75	2189	4152.5	650.9	75
2190	4152.5	701.6	75	2191	4152.5	752.3	75	2192	4152.5	803	75	2193	4152.5	853.6	75
2194	4152.5	904.3	75	2195	4152.5	955	75	2196	1911	527	93.7	2197	1911	578.4	94
2198	1911	474.8	94.6	2199	1911	369.8	95.1	2200	135	528.4	95.1	2201	2104	528.4	95.1
2202	1911	422.3	95.2	2203	1911	265.7	95.4	2204	135	579.1	95.4	2205	2104	579.1	95.4
2206	1911	317.6	95.6	2207	135	476.6	95.6	2208	2104	476.6	95.6	2209	135	424.4	95.8
2210	2104	424.4	95.8	2211	135	268	95.8	2212	2104	268	95.8	2213	135	320	96
2214	2104	320	96	2215	1911	215.1	96.1	2216	135	372.2	96.2	2217	2104	372.2	96.2
2218	1911	627.6	96.6	2219	135	628.2	96.7	2220	2104	628.2	96.7	2221	135	217.1	96.7
2222	2104	217.1	96.7	2223	1911	166.5	97.8	2224	135	168.3	98.5	2225	2104	168.3	98.5
2226	727	271.6	100	2227	1319	271.6	100	2228	2696	271.6	100	2229	3288	271.6	100
2230	727	322	100	2231	1319	322	100	2232	2696	322	100	2233	3288	322	100
2234	727	372.3	100	2235	1319	372.3	100	2236	2696	372.3	100	2237	3288	372.3	100
2238	727	422.7	100	2239	1319	422.7	100	2240	2696	422.7	100	2241	3288	422.7	100
2242	727	473	100	2243	1319	473	100	2244	2696	473	100	2245	3288	473	100
2246	727	523.4	100	2247	1319	523.4	100	2248	2696	523.4	100	2249	3288	523.4	100
2250	727	221.2	100	2251	1319	221.2	100	2252	2696	221.2	100	2253	3288	221.2	100
2254	727	573.8	100	2255	1319	573.8	100	2256	2696	573.8	100	2257	3288	573.8	100
2258	727	170.6	100	2259	1319	170.6	100	2260	2696	170.6	100	2261	3288	170.6	100
2262	727	624.4	100	2263	1319	624.4	100	2264	2696	624.4	100	2265	3288	624.4	100
2266	135	120	100	2267	727	120	100	2268	1319	120	100	2269	1911	120	100
2270	2104	120	100	2271	2696	120	100	2272	3288	120	100	2273	3880	120	100
2274	135	675	100	2275	727	675	100	2276	1319	675	100	2277	1911	675	100
2278	2104	675	100	2279	2696	675	100	2280	3288	675	100	2281	3880	675	100
2282	3880	170.5	100.8	2283	3880	624.5	100.8	2284	3880	221.1	101.5	2285	3880	573.9	101.5
2286	3880	271.5	102	2287	3880	523.5	102	2288	3880	321.9	102.3	2289	3880	473.1	102.3
2290	3880	372.3	102.5	2291	3880	422.7	102.5	2292	4152.5	-160	127.5	2293	4152.5	-109.3	127.5
2294	4152.5	-58.6	127.5	2295	4152.5	-8	127.5	2296	4152.5	42.7	127.5	2297	4152.5	93.4	127.5
2298	4152.5	144.1	127.5	2299	4152.5	194.8	127.5	2300	4152.5	245.5	127.5	2301	4152.5	296.1	127.5
2302	4152.5	346.8	127.5	2303	4152.5	397.5	127.5	2304	4152.5	448.2	127.5	2305	4152.5	498.9	127.5
2306	4152.5	549.5	127.5	2307	4152.5	600.2	127.5	2308	4152.5	650.9	127.5	2309	4152.5	701.6	127.5
2310	4152.5	752.3	127.5	2311	4152.5	803	127.5	2312	4152.5	853.6	127.5	2313	4152.5	904.3	127.5
2314	4152.5	955	127.5	2315	1911	529.1	143.1	2316	1911	475.8	143.7	2317	1911	422.3	143.9
2318	1911	368.6	144.1	2319	1911	580.9	144.2	2320	135	531.4	144.3	2321	2104	531.4	144.3
2322	1911	262.7	144.7	2323	1911	315.4	144.7	2324	135	425.5	144.9	2325	2104	425.5	144.9
2326	135	478.8	144.9	2327	2104	478.8	144.9	2328	135	582	145.1	2329	2104	582	145.1
2330	135	266.1	145.2	2331	2104	266.1	145.2	2332	135	372.2	145.3	2333	2104	372.2	145.3
2334	135	319	145.3	2335	2104	319	145.3	2336	1911	212.2	145.6	2337	135	215	146.4
2338	2104	215	146.4	2339	1911	629.3	146.6	2340	135	630.1	146.9	2341	2104	630.1	146.9
2342	1911	164.3	147.5	2343	135	166.9	148.3	2344	2104	166.9	148.3	2345	727	271.8	150
2346	1319	271.8	150	2347	2696	271.8	150	2348	3288	271.8	150	2349	727	322.1	150
2350	1319	322.1	150	2351	2696	322.1	150	2352	3288	322.1	150	2353	727	472.9	150
2354	1319	472.9	150	2355	2696	472.9	150	2356	3288	472.9	150	2357	727	523.2	150
2358	1319	523.2	150	2359	2696	523.2	150	2360	3288	523.2	150	2361	727	372.4	150
2362	1319	372.4	150	2363	2696	372.4	150	2364	3288	372.4	150	2365	727	422.6	150
2366	1319	422.6	150	2367	2696	422.6	150	2368	3288	422.6	150	2369	727	221.3	150
2370	1319	221.3	150	2371	2696	221.3	150	2372	3288	221.3	150	2373	727	573.7	150
2374	1319	573.7	150	2375	2696	573.7	150	2376	3288	573.7	150	2377	727	170.7	150
2378	1319	170.7	150	2379	2696	170.7	150	2380	3288	170.7	150	2381	727	624.3	150
2382	1319	624.3	150	2383	2696	624.3	150	2384	3288	624.3	150	2385	135	120	150
2386	727	120	150	2387	1319	120	150	2388	1911	120	150	2389	2104	120	150
2390	2696	120	150	2391	3288	120	150	2392	3880	120	150	2393	135	675	150
2394	727	675	150	2395	1319	675	150	2396	1911	675	150	2397	2104	675	150
2398	2696	675	150	2399	3288	675	150	2400	3880	675	150	2401	3880	170.6	151.5
2402	3880	624.4	151.5	2403	3880	221.2	152.8	2404	3880	573.8	152.8	2405	3880	271.6	153.7

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
2406	3880	523.4	153.7	2407	3880	322	154.2	2408	3880	473	154.2	2409	3880	372.3	154.5
2410	3880	422.7	154.5	2411	4152.5	-160	180	2412	4152.5	-109.3	180	2413	4152.5	-58.6	180
2414	4152.5	-8	180	2415	4152.5	42.7	180	2416	4152.5	93.4	180	2417	4152.5	144.1	180
2418	4152.5	194.8	180	2419	4152.5	245.5	180	2420	4152.5	296.1	180	2421	4152.5	346.8	180
2422	4152.5	397.5	180	2423	4152.5	448.2	180	2424	4152.5	498.9	180	2425	4152.5	549.5	180
2426	4152.5	600.2	180	2427	4152.5	650.9	180	2428	4152.5	701.6	180	2429	4152.5	752.3	180
2430	4152.5	803	180	2431	4152.5	853.6	180	2432	4152.5	904.3	180	2433	4152.5	955	180
2434	1911	477.2	193.7	2435	1911	422.3	194.4	2436	1911	367.5	194.6	2437	1911	531.8	194.6
2438	1911	312.8	195.3	2439	135	426.8	195.3	2440	2104	426.8	195.3	2441	135	481.5	195.3
2442	2104	481.5	195.4	2443	135	372.3	195.4	2444	2104	372.3	195.4	2445	135	535.3	195.5
2446	2104	535.3	195.5	2447	135	318	195.7	2448	2104	318	195.7	2449	1911	259.1	195.9
2450	135	263.7	195.9	2451	2104	263.7	195.9	2452	135	585.8	196	2453	2104	585.8	196
2454	1911	209.3	196.5	2455	1911	584.2	196.6	2456	135	212	197.4	2457	2104	212	197.4
2458	135	632.8	197.6	2459	2104	632.8	197.6	2460	1911	162.9	197.9	2461	1911	631.1	198.1
2462	135	165.1	198.8	2463	2104	165.1	198.8	2464	727	271.9	199.8	2465	1319	271.9	199.8
2466	2696	271.9	199.8	2467	3288	271.9	199.8	2468	727	523.1	199.8	2469	1319	523.1	199.8
2470	2696	523.1	199.8	2471	3288	523.1	199.8	2472	727	322.2	199.8	2473	1319	322.2	199.8
2474	2696	322.2	199.8	2475	3288	322.2	199.8	2476	727	472.8	199.8	2477	1319	472.8	199.8
2478	2696	472.8	199.8	2479	3288	472.8	199.8	2480	727	372.4	199.8	2481	1319	372.4	199.8
2482	2696	372.4	199.8	2483	3288	372.4	199.8	2484	727	422.6	199.8	2485	1319	422.6	199.8
2486	2696	422.6	199.8	2487	3288	422.6	199.8	2488	727	221.5	199.8	2489	1319	221.5	199.8
2490	2696	221.5	199.8	2491	3288	221.5	199.8	2492	727	573.5	199.8	2493	1319	573.5	199.8
2494	2696	573.5	199.8	2495	3288	573.5	199.8	2496	727	170.8	199.9	2497	1319	170.8	199.9
2498	2696	170.8	199.9	2499	3288	170.8	199.9	2500	727	624.2	199.9	2501	1319	624.2	199.9
2502	2696	624.2	199.9	2503	3288	624.2	199.9	2504	135	120	200	2505	727	120	200
2506	1319	120	200	2507	1911	120	200	2508	2104	120	200	2509	2696	120	200
2510	3288	120	200	2511	3880	120	200	2512	135	675	200	2513	727	675	200
2514	1319	675	200	2515	1911	675	200	2516	2104	675	200	2517	2696	675	200
2518	3288	675	200	2519	3880	675	200	2520	3880	170.7	202.6	2521	3880	624.3	202.6
2522	3880	221.4	204.7	2523	3880	573.6	204.7	2524	3880	271.8	206.2	2525	3880	523.2	206.2
2526	3880	322.1	207	2527	3880	472.9	207	2528	3880	372.4	207.4	2529	3880	422.6	207.4
2530	1911	422.4	245.5	2531	1911	366.5	246	2532	135	372.5	246.4	2533	2104	372.5	246.4
2534	1911	478.2	246.6	2535	135	427.9	246.7	2536	2104	427.9	246.7	2537	135	317.3	246.9
2538	2104	317.3	246.9	2539	135	590	247.9	2540	2104	590	247.9	2541	1911	205.5	248
2542	1911	159.6	248.2	2543	135	636.3	248.2	2544	2104	636.3	248.2	2545	1911	309.9	248.3
2546	135	484.8	248.4	2547	2104	484.8	248.5	2548	135	261.6	248.9	2549	2104	261.6	248.9
2550	1911	534.4	249.1	2551	727	272	249.4	2552	1319	272	249.4	2553	2696	272	249.4
2554	3288	272	249.4	2555	727	523	249.4	2556	1319	523	249.4	2557	2696	523	249.4
2558	3288	523	249.4	2559	727	322.3	249.4	2560	1319	322.3	249.4	2561	2696	322.3	249.4
2562	3288	322.3	249.4	2563	727	472.7	249.4	2564	1319	472.7	249.4	2565	2696	472.7	249.4
2566	3288	472.7	249.4	2567	727	372.4	249.4	2568	1319	372.4	249.4	2569	2696	372.4	249.4
2570	3288	372.4	249.4	2571	727	422.6	249.4	2572	1319	422.6	249.4	2573	2696	422.6	249.4
2574	3288	422.6	249.4	2575	727	221.6	249.4	2576	1319	221.6	249.4	2577	2696	221.6	249.4
2578	3288	221.6	249.4	2579	727	573.4	249.4	2580	1319	573.4	249.4	2581	2696	573.4	249.4
2582	3288	573.4	249.4	2583	727	170.9	249.6	2584	1319	170.9	249.6	2585	2696	170.9	249.6
2586	3288	170.9	249.6	2587	727	624.1	249.6	2588	1319	624.1	249.6	2589	2696	624.1	249.6
2590	3288	624.1	249.6	2591	135	120	250	2592	727	120	250	2593	1319	120	250
2594	1911	120	250	2595	2104	120	250	2596	2696	120	250	2597	3288	120	250
2598	3880	120	250	2599	135	675	250	2600	727	675	250	2601	1319	675	250
2602	1911	675	250	2603	2104	675	250	2604	2696	675	250	2605	3288	675	250
2606	3880	675	250	2607	135	539.9	250.1	2608	2104	539.8	250.1	2609	1911	632.6	250.1
2610	1911	255.2	250.1	2611	135	163.3	250.3	2612	2104	163.3	250.3	2613	1911	586.6	251.6
2614	135	209.5	251.6	2615	2104	209.5	251.7	2616	3880	171	254.5	2617	3880	624	254.5
2618	3880	221.7	257.8	2619	3880	573.3	257.8	2620	3880	272.1	259.8	2621	3880	522.9	259.8
2622	3880	322.3	260.9	2623	3880	472.7	260.9	2624	3880	372.5	261.4	2625	3880	422.5	261.4
2626	135	638.7	296.4	2627	2104	638.7	296.4	2628	1911	157.4	296.4	2629	1911	422.4	297
2630	135	372.5	297.2	2631	2104	372.5	297.2	2632	1911	367.2	297.3	2633	135	596	297.5
2634	2104	596	297.5	2635	1911	199.8	297.6	2636	135	427.6	297.9	2637	2104	427.6	297.9
2638	727	272.2	298.4	2639	1319	272.2	298.4	2640	2696	272.2	298.4	2641	3288	272.2	298.4
2642	727	522.8	298.4	2643	1319	522.8	298.4	2644	2696	522.8	298.4	2645	3288	522.8	298.4
2646	727	221.8	298.4	2647	1319	221.8	298.4	2648	2696	221.8	298.4	2649	3288	221.8	298.4
2650	727	573.2	298.4	2651	1319	573.2	298.4	2652	2696	573.2	298.4	2653	3288	573.2	298.4
2654	727	322.4	298.4	2655	1319	322.4	298.4	2656	2696	322.4	298.4	2657	3288	322.4	298.4
2658	727	472.6	298.4	2659	1319	472.6	298.4	2660	2696	472.6	298.4	2661	3288	472.6	298.4
2662	727	372.5	298.5	2663	1319	372.5	298.5	2664	2696	372.5	298.5	2665	3288	372.5	298.5
2666	727	422.5	298.5	2667	1319	422.5	298.5	2668	2696	422.5	298.5	2669	3288	422.5	298.5
2670	135	317.9	298.6	2671	1911	477	298.6	2672	2104	317.9	298.6	2673	727	171.1	298.8
2674	1319	171.1	298.8	2675	2696	171.1	298.8	2676	3288	171.1	298.8	2677	727	623.9	298.8
2678	1319	623.9	298.8	2679	2696	623.9	298.8	2680	3288	623.9	298.8	2681	135	120	300
2682	727	120	300	2683	1319	120	300	2684	1911	120	300	2685	2104	120	300
2686	2696	120	300	2687	3288	120	300	2688	3880	120	300	2689	135	675	300
2690	727	675	300	2691	1319	675	300	2692	1911	675	300	2693	2104	675	300
2694	2696	675	300	2695	3288	675	300	2696	3880	675	300	2697	1911	637.7	300.5
2698	135	158.6	300.8	2699	2104	158.6	300.8	2700	1911	310.8	301.1	2701	135	484.2	301.3
2702	2104	484.2	301.3	2703	135	263.3	302	2704	2104	263.3	302	2705	1911	532.3	302.3
2706	3880	171.4	307.8	2707	3880	623.6	307.8	2708	135	545.9	308.9	2709	2104	545.9	308.9
2710	1911	249.5	308.9	2711	1911	590.6	310.5	2712	135	205.2	310.8	2713	2104	205.2	310.8
2714	3880	222.2	312.4	2715	3880	572.8	312.4	2716	3880	272.5	314.9	2717	3880	522.5	314.9
2718	3880	322.6	316.2	2719	3880	472.4	316.2	2720	3880	372.6	316.7	2721	3880	422.5	316.7
2722	135	605.2	335.3	2723	2104	605.2	335.3	2724	1911	190.1	336.4	2725	135	574.4	336.8
2726	2104	574.4	336.8	2727	1911	221.1	337.3	2728	135	641.4	338.5	2729	2104	641.4	338.5
2730	1911	617	339.7	2731	1911	153.1	340.2	2732	1911	644.5	340.6	2733	135	178.9	341.1
2734	2104	178.9	341.1	2735	135	150.9	342.3	2736	2104	150.9	342.3	2737	1911	422.2	344
2738	135	372.8	344.3	2739	2104	372.8	344.3	2740	135	425.7	345	2741	2104	425.6	345
2742	1911	369.3	345.1	2743	1911	474.7	345.5	2744	135	320.3	345.9	2745	2104	320.3	345.9
2746	727	222.2	346.1	2747	1319	222.2	346.1	2748	2696	222.2	346.1	2749	3288	222.2	346.1
2750	727	572.8	346.1	2751	1319	572.8	346.1	2752	2696	572.8	346.1	2753	3288	572.8	346.1
2754	727	272.4	346.3	2755	1319	272.4	346.3	2756	2696	272.4	346.3	2757	3288	272.4	346.3
2758	727	522.6	346.3	2759	1319	522.6	346.3	2760	2696	522.6	346.3	2761	3288	522.6	346.3
2762	727	322.5	346.5	2763	1319	322.5	346.5	2764	2696	322.5	346.5	2765	3288	322.5	346.5
2766	727	472.5	346.5	2767	1319	472.5	346.5	2768	2696	472.5	346.5	2769	3288	472.5	346.5
2770	727	171.5	346.6	2771	1319	171.5	346.6	2772	2696	171.5	346.6	2773	3288	171.5	346.6
2774	727	623.5	346.6	2775	1319	623.5	346.6	2776	2696	623.5	346.6	2777	3288	623.5	346.6
2778	727	372.5	346.6	2779	1319	372.5	346.6	2780	2696	372.5	346.6	2781	3288	372.5	346.6
2782	727	422.5	346.6	2783	1319	422.5	346.6	2784	2696	422.5	346.6	2785	3288	422.5	346.6
2786	135	478.5	348	2787	2104	478.5	348	2788	1911	316.5	348.3	2789	1911	526.7	349.3
2790	135	268.6	349.9	2791	2104	268.5	349.9	2792	135	120	350	2793	727	120	350

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
2794	1319	120	350	2795	1911	120	350	2796	2104	120	350	2797	2696	120	350
2798	3288	120	350	2799	3880	120	350	2800	135	675	350	2801	727	675	350
2802	1319	675	350	2803	1911	675	350	2804	2104	675	350	2805	2696	675	350
2806	3288	675	350	2807	3880	675	350	2808	135	529.8	354.2	2809	2104	529.8	354.2
2810	1911	265.3	355.2	2811	1911	576	356.2	2812	727	76.3	356.7	2813	1319	76.3	356.7
2814	2696	76.3	356.7	2815	3288	76.3	356.7	2816	727	718.7	356.7	2817	1319	718.7	356.7
2818	2696	718.7	356.7	2819	3288	718.7	356.7	2820	135	219.5	357	2821	2104	219.5	357
2822	135	67.6	358	2823	1911	67.6	358	2824	2104	67.6	358	2825	3880	67.6	358
2826	135	727.4	358	2827	1911	727.4	358	2828	2104	727.4	358	2829	3880	727.4	358
2830	727	32.7	363.3	2831	1319	32.7	363.3	2832	2696	32.7	363.3	2833	3288	32.7	363.3
2834	727	762.3	363.3	2835	1319	762.3	363.3	2836	2696	762.3	363.3	2837	3288	762.3	363.3
2838	3880	172.5	364.3	2839	3880	622.5	364.3	2840	135	570.9	364.8	2841	2104	570.8	364.8
2842	1911	224.6	365.7	2843	135	15.2	366	2844	1911	15.2	366	2845	2104	15.2	366
2846	3880	15.2	366	2847	135	779.8	366	2848	1911	779.8	366	2849	2104	779.8	366
2850	3880	779.8	366	2851	1911	613.9	367.1	2852	135	609	368.5	2853	2104	608.9	368.5
2854	135	181.6	369.1	2855	2104	181.6	369.1	2856	3880	223.2	369.6	2857	3880	571.8	369.6
2858	727	-11	370	2859	1319	-11	370	2860	2696	-11	370	2861	3288	-11	370
2862	727	806	370	2863	1319	806	370	2864	2696	806	370	2865	3288	806	370
2866	1911	186.4	370.4	2867	135	645.3	371.6	2868	2104	645.3	371.6	2869	3880	273.2	371.7
2870	3880	521.8	371.7	2871	1911	647.7	371.8	2872	3880	323	372.6	2873	3880	472	372.6
2874	3880	372.7	373	2875	3880	422.3	373	2876	135	-37.2	374	2877	1911	-37.2	374
2878	2104	-37.2	374	2879	3880	-37.2	374	2880	135	832.2	374	2881	1911	832.2	374
2882	2104	832.2	374	2883	3880	832.2	374	2884	135	146.9	375.8	2885	2104	146.9	375.8
2886	1911	148.7	376	2887	2104	682.2	376.2	2888	135	682.2	376.2	2889	1911	682.8	376.4
2890	727	-54.7	376.7	2891	1319	-54.7	376.7	2892	2696	-54.7	376.7	2893	3288	-54.7	376.7
2894	727	849.7	376.7	2895	1319	849.7	376.7	2896	2696	849.7	376.7	2897	3288	849.7	376.7
2898	1911	717.8	377.7	2899	2104	717.8	377.7	2900	135	717.8	377.7	2901	727	762.8	380.8
2902	1319	762.8	380.8	2903	2696	762.8	380.8	2904	3288	762.8	380.8	2905	135	-89.6	382
2906	1911	-89.6	382	2907	2104	-89.6	382	2908	3880	-89.6	382	2909	135	884.6	382
2910	1911	884.6	382	2911	2104	884.6	382	2912	3880	884.6	382	2913	727	-98.3	383.3
2914	1319	-98.3	383.3	2915	2696	-98.3	383.3	2916	3288	-98.3	383.3	2917	727	893.3	383.3
2918	1319	893.3	383.3	2919	2696	893.3	383.3	2920	3288	893.3	383.3	2921	727	789.4	384.1
2922	1319	789.4	384.1	2923	2696	789.4	384.1	2924	3288	789.4	384.1	2925	1911	108.6	385.2
2926	135	107.9	385.3	2927	2104	107.9	385.3	2928	1911	422.1	388.1	2929	135	372.9	388.5
2930	2104	372.8	388.5	2931	135	423.8	388.5	2932	2104	423.7	388.5	2933	1911	371.3	388.6
2934	1911	472.9	389.3	2935	135	322.2	389.5	2936	2104	322.2	389.5	2937	135	474.4	390
2938	2104	474.3	390	2939	135	-142	390	2940	727	-142	390	2941	1319	-142	390
2942	1911	-142	390	2943	2104	-142	390	2944	2696	-142	390	2945	3288	-142	390
2946	3880	-142	390	2947	135	937	390	2948	727	937	390	2949	1319	937	390
2950	1911	937	390	2951	2104	937	390	2952	2696	937	390	2953	3288	937	390
2954	3880	937	390	2955	1911	320.7	390.4	2956	727	172.5	391	2957	1319	172.5	391
2958	2696	172.5	391	2959	3288	172.5	391	2960	727	622.5	391	2961	1319	622.5	391
2962	2696	622.5	391	2963	3288	622.5	391	2964	1911	523.1	392	2965	727	222.8	392
2966	1319	222.8	392	2967	2696	222.8	392	2968	3288	222.8	392	2969	727	572.2	392
2970	1319	572.2	392	2971	2696	572.2	392	2972	3288	572.2	392	2973	727	272.8	393.1
2974	1319	272.8	393.1	2975	2696	272.8	393.1	2976	3288	272.8	393.1	2977	727	522.2	393.1
2978	1319	522.2	393.1	2979	2696	522.2	393.1	2980	3288	522.2	393.1	2981	135	272.1	393.1
2982	2104	272.1	393.1	2983	135	523.7	393.3	2984	2104	523.7	393.3	2985	727	322.7	393.7
2986	1319	322.7	393.7	2987	2696	322.7	393.7	2988	3288	322.7	393.7	2989	727	472.3	393.7
2990	1319	472.3	393.7	2991	2696	472.3	393.7	2992	3288	472.3	393.7	2993	727	372.6	394
2994	1319	372.6	394	2995	2696	372.6	394	2996	3288	372.6	394	2997	727	422.4	394
2998	1319	422.4	394	2999	2696	422.4	394	3000	3288	422.4	394	3001	1911	271.5	394.1
3002	727	737.1	394.7	3003	1319	737.1	394.7	3004	2696	737.1	394.7	3005	3288	737.1	394.7
3006	727	120	395	3007	1319	120	395	3008	2696	120	395	3009	3288	120	395
3010	727	675	395	3011	1319	675	395	3012	2696	675	395	3013	3288	675	395
3014	1911	571.1	396	3015	135	224.2	396.8	3016	2104	224.2	396.8	3017	727	72.1	398.3
3018	1319	72.1	398.3	3019	2696	72.1	398.3	3020	3288	72.1	398.3	3021	135	569.8	398.6
3022	2104	569.7	398.6	3023	1911	743	398.7	3024	2104	742.9	398.7	3025	135	742.9	398.7
3026	1911	225.8	399.4	3027	1911	614.1	399.9	3028	135	612.6	400.8	3029	2104	612.6	400.8
3030	727	802.2	401	3031	1319	802.2	401	3032	2696	802.2	401	3033	3288	802.2	401
3034	1911	52.3	401.6	3035	727	24.4	401.6	3036	1319	24.4	401.6	3037	2696	24.4	401.6
3038	3288	24.4	401.6	3039	2104	52.2	401.7	3040	135	52.2	401.7	3041	135	181.7	401.7
3042	2104	181.7	401.7	3043	1911	183.2	402.4	3044	1911	649.6	403	3045	135	648.6	403.2
3046	2104	648.5	403.2	3047	1911	-6.9	403.8	3048	135	-6.9	403.8	3049	2104	-6.9	403.8
3050	1911	687.8	404.6	3051	2104	687.5	404.6	3052	135	687.5	404.6	3053	727	-22.6	404.9
3054	1319	-22.6	404.9	3055	2696	-22.6	404.9	3056	3288	-22.6	404.9	3057	1911	801.9	405.7
3058	2104	801.9	405.7	3059	135	801.9	405.7	3060	135	147.3	406.5	3061	2104	147.3	406.5
3062	1911	-57.8	406.8	3063	135	-57.8	406.8	3064	2104	-57.8	406.8	3065	1911	147.8	407
3066	727	-67.1	408	3067	1319	-67.1	408	3068	2696	-67.1	408	3069	3288	-67.1	408
3070	135	-96.6	409.5	3071	1911	-96.6	409.5	3072	2104	-96.6	409.5	3073	727	855.1	409.6
3074	1319	855.1	409.6	3075	2696	855.1	409.6	3076	3288	855.1	409.6	3077	1911	852.7	410.4
3078	135	852.7	410.4	3079	2104	852.7	410.4	3080	727	-102.6	410.4	3081	1319	-102.6	410.4
3082	2696	-102.6	410.4	3083	3288	-102.6	410.4	3084	1911	113.5	412.7	3085	135	113.1	412.9
3086	2104	113.1	412.9	3087	727	892.9	413.5	3088	1319	892.9	413.5	3089	2696	892.9	413.5
3090	3288	892.9	413.5	3091	135	891.6	413.5	3092	1911	891.6	413.5	3093	2104	891.6	413.5
3094	1911	77.5	418.8	3095	135	77.4	418.8	3096	2104	77.4	418.8	3097	43.5	-142	430
3098	81.8	-142	430	3099	120	-142	430	3100	170.6	-142	430	3101	221.2	-142	430
3102	271.8	-142	430	3103	322.3	-142	430	3104	372.9	-142	430	3105	423.5	-142	430
3106	474.1	-142	430	3107	524.7	-142	430	3108	575.3	-142	430	3109	625.8	-142	430
3110	676.4	-142	430	3111	727	-142	430	3112	776.3	-142	430	3113	825.7	-142	430
3114	875	-142	430	3115	924.3	-142	430	3116	973.7	-142	430	3117	1023	-142	430
3118	1072.3	-142	430	3119	1121.7	-142	430	3120	1171	-142	430	3121	1220.3	-142	430
3122	1269.7	-142	430	3123	1319	-142	430	3124	1369.6	-142	430	3125	1420.2	-142	430
3126	1470.8	-142	430	3127	1521.3	-142	430	3128	1571.9	-142	430	3129	1622.5	-142	430
3130	1673.1	-142	430	3131	1723.7	-142	430	3132	1774.3	-142	430	3133	1824.8	-142	430
3134	1875.4	-142	430	3135	1926	-142	430	3136	1964.2	-142	430	3137	2002.5	-142	430
3138	2012.5	-142	430	3139	2050.8	-142	430	3140	2089	-142	430	3141	2139.6	-142	430
3142	2190.2	-142	430	3143	2240.8	-142	430	3144	2291.3	-142	430	3145	2341.9	-142	430
3146	2392.5	-142	430	3147	2443.1	-142	430	3148	2493.7	-142	430	3149	2544.3	-142	430
3150	2594.8	-142	430	3151	2645.4	-142	430	3152	2696	-142	430	3153	2745.3	-142	430
3154	2794.7	-142	430	3155	2844	-142	430	3156	2893.3	-142	430	3157	2942.7	-142	430
3158	2992	-142	430	3159	3041.3	-142	430	3160	3090.7	-142	430	3161	3140	-142	430
3162	3189.3	-142	430	3163	3238.7	-142	430	3164	3288	-142	430	3165	3337.3	-142	430
3166	3386.7	-142	430	3167	3436	-142	430	3168	3485.3	-142	430	3169	3534.7	-142	430
3170	3584	-142	430	3171	3633.3	-142	430	3172	3682.7	-142	430	3173	3732	-142	430
3174	3781.3	-142	430	3175	3830.7	-142	430	3176	3880	-142	430	3177	3932	-142	430
3178	3984	-142	430	3179	4036	-142	430	3180	4088	-142	430	3181	4140	-142	430

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
3182	120	-129.5	430	3183	170.6	-129.5	430	3184	221.2	-129.5	430	3185	271.8	-129.5	430
3186	322.3	-129.5	430	3187	372.9	-129.5	430	3188	423.5	-129.5	430	3189	474.1	-129.5	430
3190	524.7	-129.5	430	3191	575.3	-129.5	430	3192	625.8	-129.5	430	3193	676.4	-129.5	430
3194	727	-129.5	430	3195	776.3	-129.5	430	3196	825.7	-129.5	430	3197	875	-129.5	430
3198	924.3	-129.5	430	3199	973.7	-129.5	430	3200	1023	-129.5	430	3201	1072.3	-129.5	430
3202	1121.7	-129.5	430	3203	1171	-129.5	430	3204	1220.3	-129.5	430	3205	1269.7	-129.5	430
3206	1319	-129.5	430	3207	1369.6	-129.5	430	3208	1420.2	-129.5	430	3209	1470.8	-129.5	430
3210	1521.3	-129.5	430	3211	1571.9	-129.5	430	3212	1622.5	-129.5	430	3213	1673.1	-129.5	430
3214	1723.7	-129.5	430	3215	1774.3	-129.5	430	3216	1824.8	-129.5	430	3217	1875.4	-129.5	430
3218	1926	-129.5	430	3219	2089	-129.5	430	3220	2139.6	-129.5	430	3221	2190.2	-129.5	430
3222	2240.8	-129.5	430	3223	2291.3	-129.5	430	3224	2341.9	-129.5	430	3225	2392.5	-129.5	430
3226	2443.1	-129.5	430	3227	2493.7	-129.5	430	3228	2544.3	-129.5	430	3229	2594.8	-129.5	430
3230	2645.4	-129.5	430	3231	2696	-129.5	430	3232	2745.3	-129.5	430	3233	2794.7	-129.5	430
3234	2844	-129.5	430	3235	2893.3	-129.5	430	3236	2942.7	-129.5	430	3237	2992	-129.5	430
3238	3041.3	-129.5	430	3239	3090.7	-129.5	430	3240	3140	-129.5	430	3241	3189.3	-129.5	430
3242	3238.7	-129.5	430	3243	3288	-129.5	430	3244	3337.3	-129.5	430	3245	3386.7	-129.5	430
3246	3436	-129.5	430	3247	3485.3	-129.5	430	3248	3534.7	-129.5	430	3249	3584	-129.5	430
3250	3633.3	-129.5	430	3251	3682.7	-129.5	430	3252	3732	-129.5	430	3253	3781.3	-129.5	430
3254	3830.7	-129.5	430	3255	3880	-129.5	430	3256	4140	-96.6	430	3257	4088	-95.4	430
3258	4036.1	-94	430	3259	3984.1	-92.6	430	3260	3932	-91.1	430	3261	372.9	-89.8	430
3262	423.5	-89.8	430	3263	474.1	-89.8	430	3264	973.7	-89.8	430	3265	1023	-89.8	430
3266	1072.3	-89.8	430	3267	1571.9	-89.8	430	3268	1622.5	-89.8	430	3269	1673.1	-89.8	430
3270	2341.9	-89.8	430	3271	2392.5	-89.8	430	3272	2443.1	-89.8	430	3273	2942.7	-89.8	430
3274	2992	-89.8	430	3275	3041.3	-89.8	430	3276	3535.7	-89.8	430	3277	3585.2	-89.8	430
3278	3634.8	-89.8	430	3279	322.3	-89.8	430	3280	524.7	-89.8	430	3281	924.3	-89.8	430
3282	1121.7	-89.8	430	3283	1521.3	-89.8	430	3284	1723.7	-89.8	430	3285	2291.3	-89.8	430
3286	2493.7	-89.8	430	3287	2893.3	-89.8	430	3288	3090.7	-89.8	430	3289	3486.2	-89.8	430
3290	3684.2	-89.8	430	3291	271.8	-89.8	430	3292	575.3	-89.8	430	3293	875	-89.8	430
3294	1171	-89.8	430	3295	1470.8	-89.8	430	3296	1774.3	-89.8	430	3297	2240.8	-89.8	430
3298	2544.3	-89.8	430	3299	2844	-89.8	430	3300	3140	-89.8	430	3301	3436.6	-89.8	430
3302	3733.6	-89.8	430	3303	221.2	-89.8	430	3304	625.8	-89.8	430	3305	825.7	-89.8	430
3306	1220.3	-89.8	430	3307	1420.2	-89.8	430	3308	1824.8	-89.8	430	3309	2190.2	-89.8	430
3310	2594.8	-89.8	430	3311	2794.7	-89.8	430	3312	3189.3	-89.8	430	3313	3387.1	-89.8	430
3314	3782.7	-89.8	430	3315	170.6	-89.7	430	3316	676.4	-89.7	430	3317	776.3	-89.7	430
3318	1269.7	-89.7	430	3319	1369.6	-89.7	430	3320	1875.4	-89.7	430	3321	2139.6	-89.7	430
3322	2645.4	-89.7	430	3323	2745.3	-89.7	430	3324	3238.7	-89.7	430	3325	3337.5	-89.7	430
3326	3831.5	-89.7	430	3327	43.5	-89.6	430	3328	81.8	-89.6	430	3329	120	-89.6	430
3330	727	-89.6	430	3331	1319	-89.6	430	3332	1926	-89.6	430	3333	1964.2	-89.6	430
3334	2002.5	-89.6	430	3335	2012.5	-89.6	430	3336	2050.8	-89.6	430	3337	2089	-89.6	430
3338	2696	-89.6	430	3339	3288	-89.6	430	3340	3880	-89.6	430	3341	4140	-51.3	430
3342	4088.1	-48.9	430	3343	4036.2	-46.2	430	3344	3984.2	-43.4	430	3345	3932.1	-40.4	430
3346	575.3	-39.1	430	3347	1171	-39.1	430	3348	1774.3	-39.1	430	3349	2544.3	-39.1	430
3350	3140	-39.1	430	3351	322.3	-39	430	3352	924.3	-39	430	3353	1521.3	-39	430
3354	2291.3	-39	430	3355	2893.3	-39	430	3356	271.8	-38.9	430	3357	875	-38.9	430
3358	1470.8	-38.9	430	3359	2240.8	-38.9	430	3360	2844	-38.9	430	3361	423.5	-38.8	430
3362	1023	-38.8	430	3363	1622.5	-38.8	430	3364	2392.5	-38.8	430	3365	2992	-38.8	430
3366	524.7	-38.7	430	3367	1121.7	-38.7	430	3368	1723.7	-38.7	430	3369	2493.7	-38.7	430
3370	3090.7	-38.7	430	3371	474.1	-38.7	430	3372	1072.3	-38.7	430	3373	1673.1	-38.7	430
3374	2443.1	-38.7	430	3375	3041.3	-38.7	430	3376	372.9	-38.6	430	3377	973.7	-38.6	430
3378	1571.9	-38.6	430	3379	2341.9	-38.6	430	3380	2942.7	-38.6	430	3381	221.2	-38.5	430
3382	625.8	-38.5	430	3383	825.7	-38.5	430	3384	1220.3	-38.5	430	3385	1420.2	-38.5	430
3386	1824.8	-38.5	430	3387	2190.2	-38.5	430	3388	2594.8	-38.5	430	3389	2794.7	-38.5	430
3390	3189.3	-38.5	430	3391	3586.4	-38	430	3392	3536.7	-38	430	3393	3636.2	-38	430
3394	3487	-38	430	3395	3685.8	-38	430	3396	3437.2	-38	430	3397	3735.2	-38	430
3398	3387.5	-37.9	430	3399	3784	-37.9	430	3400	170.6	-37.6	430	3401	676.4	-37.6	430
3402	776.3	-37.6	430	3403	1269.7	-37.6	430	3404	1369.6	-37.6	430	3405	1875.4	-37.6	430
3406	2139.6	-37.6	430	3407	2645.4	-37.6	430	3408	2745.3	-37.6	430	3409	3238.7	-37.6	430
3410	3337.7	-37.6	430	3411	3832.3	-37.6	430	3412	43.5	-37.2	430	3413	81.8	-37.2	430
3414	120	-37.2	430	3415	727	-37.2	430	3416	1319	-37.2	430	3417	1926	-37.2	430
3418	1964.2	-37.2	430	3419	2002.5	-37.2	430	3420	2012.5	-37.2	430	3421	2050.8	-37.2	430
3422	2089	-37.2	430	3423	2696	-37.2	430	3424	3288	-37.2	430	3425	3880	-37.2	430
3426	4140	-5.9	430	3427	4088.3	-2.6	430	3428	4036.4	1.1	430	3429	3984.5	5.3	430
3430	3932.3	10	430	3431	271.8	10.6	430	3432	875	10.6	430	3433	1470.8	10.6	430
3434	2240.8	10.6	430	3435	2844	10.6	430	3436	575.3	10.7	430	3437	1171	10.7	430
3438	1774.3	10.7	430	3439	2544.3	10.7	430	3440	3140	10.7	430	3441	524.7	11	430
3442	1121.7	11	430	3443	1723.7	11	430	3444	2493.7	11	430	3445	3090.7	11	430
3446	423.5	11.1	430	3447	1023	11.1	430	3448	1622.5	11.1	430	3449	2392.5	11.1	430
3450	2992	11.1	430	3451	322.3	11.1	430	3452	924.3	11.1	430	3453	1521.3	11.1	430
3454	2291.3	11.1	430	3455	2893.3	11.1	430	3456	474.1	11.1	430	3457	1072.3	11.1	430
3458	1673.1	11.1	430	3459	2443.1	11.1	430	3460	3041.3	11.1	430	3461	372.9	11.3	430
3462	973.7	11.3	430	3463	1571.9	11.3	430	3464	2341.9	11.3	430	3465	2942.7	11.3	430
3466	221.2	11.6	430	3467	625.8	11.6	430	3468	825.7	11.6	430	3469	1220.3	11.6	430
3470	1420.2	11.6	430	3471	1824.8	11.6	430	3472	2190.2	11.6	430	3473	2594.8	11.6	430
3474	2794.7	11.6	430	3475	3189.3	11.6	430	3476	3387.9	12.3	430	3477	3587.6	12.3	430
3478	3537.7	12.3	430	3479	3637.5	12.3	430	3480	3487.8	12.4	430	3481	3687.3	12.4	430
3482	3437.8	12.5	430	3483	3736.7	12.5	430	3484	3785.4	12.8	430	3485	170.6	13	430
3486	676.4	13	430	3487	776.3	13	430	3488	1269.7	13	430	3489	1369.6	13	430
3490	1875.4	13	430	3491	2139.6	13	430	3492	2645.4	13	430	3493	2745.3	13	430
3494	3238.7	13	430	3495	3337.9	13	430	3496	3833.1	13.6	430	3497	43.5	15.2	430
3498	81.8	15.2	430	3499	120	15.2	430	3500	727	15.2	430	3501	1319	15.2	430
3502	1926	15.2	430	3503	1964.2	15.2	430	3504	2002.5	15.2	430	3505	2012.5	15.2	430
3506	2050.8	15.2	430	3507	2089	15.2	430	3508	2696	15.2	430	3509	3288	15.2	430
3510	3880	15.2	430	3511	4140	39.4	430	3512	4088.6	43.2	430	3513	4036.9	47.6	430
3514	3985.1	52.7	430	3515	524.7	57.4	430	3516	1121.7	57.4	430	3517	1723.7	57.4	430
3518	2493.7	57.4	430	3519	3090.7	57.4	430	3520	474.1	57.8	430	3521	1072.3	57.8	430
3522	1673.1	57.8	430	3523	2443.1	57.8	430	3524	3041.3	57.8	430	3525	575.3	58.1	430
3526	1171	58.1	430	3527	1774.3	58.1	430	3528	2544.3	58.1	430	3529	3140	58.1	430
3530	271.8	58.1	430	3531	875	58.1	430	3532	1470.8	58.1	430	3533	2240.8	58.1	430
3534	2844	58.1	430	3535	423.5	58.4	430	3536	1023	58.4	430	3537	1622.5	58.4	430
3538	2392.5	58.4	430	3539	2992	58.4	430	3540	322.3	58.5	430	3541	924.3	58.5	430
3542	1521.3	58.5	430	3543	2291.3	58.5	430	3544	2893.3	58.5	430	3545	372.9	58.6	430
3546	973.7	58.6	430	3547	1571.9	58.6	430	3548	2341.9	58.6	430	3549	2942.7	58.6	430
3550	3932.9	59.2	430	3551	221.2	59.3	430	3552	625.8	59.3	430	3553	825.7	59.3	430
3554	1220.3	59.3	430	3555	1420.2	59.3	430	3556	1824.8	59.3	430	3557	2190.2	59.3	430
3558	2594.8	59.3	430	3559	2794.7	59.3	430	3560	3189.3	59.3	430	3561	3588.8	59.8	430
3562	3538.6	59.8	430	3563	3638.8	59.8	430	3564	3488.5	59.8	430	3565	3688.7	59.8	430
3566	3388.2	59.9	430	3567	3438.4	60.1	430	3568	3738.2	60.1	430	3569	3786.9	60.8	430

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
3570	170.6	62.3	430	3571	676.4	62.3	430	3572	776.3	62.3	430	3573	1269.7	62.3	430
3574	1369.6	62.3	430	3575	1875.4	62.3	430	3576	2139.6	62.3	430	3577	2645.4	62.3	430
3578	2745.3	62.3	430	3579	3238.7	62.3	430	3580	3338.1	62.3	430	3581	3834.1	63	430
3582	43.5	67.6	430	3583	81.8	67.6	430	3584	120	67.6	430	3585	727	67.6	430
3586	1319	67.6	430	3587	1926	67.6	430	3588	1964.2	67.6	430	3589	2002.5	67.6	430
3590	2012.5	67.6	430	3591	2050.8	67.6	430	3592	2089	67.6	430	3593	2696	67.6	430
3594	3288	67.6	430	3595	3880	67.6	430	3596	4140	84.8	430	3597	4089.1	88.3	430
3598	4038	92.4	430	3599	3986.5	97.6	430	3600	423.5	102.1	430	3601	1023	102.1	430
3602	1622.5	102.1	430	3603	2392.5	102.1	430	3604	2992	102.1	430	3605	3589.8	102.7	430
3606	372.9	102.7	430	3607	474.1	102.7	430	3608	973.7	102.7	430	3609	1072.3	102.7	430
3610	1571.9	102.7	430	3611	1673.1	102.7	430	3612	2341.9	102.7	430	3613	2443.1	102.7	430
3614	2942.7	102.7	430	3615	3041.3	102.7	430	3616	3539.5	102.7	430	3617	3640	102.7	430
3618	322.3	102.8	430	3619	524.7	102.8	430	3620	924.3	102.8	430	3621	1121.7	102.8	430
3622	1521.3	102.8	430	3623	1723.7	102.8	430	3624	2291.3	102.8	430	3625	2493.7	102.8	430
3626	2893.3	102.8	430	3627	3090.7	102.8	430	3628	3489.2	102.8	430	3629	3690.1	102.8	430
3630	271.8	103.1	430	3631	575.3	103.1	430	3632	875	103.1	430	3633	1171	103.1	430
3634	1470.8	103.1	430	3635	1774.3	103.1	430	3636	2240.8	103.1	430	3637	2544.3	103.1	430
3638	2844	103.1	430	3639	3140	103.1	430	3640	3438.9	103.1	430	3641	3739.8	103.1	430
3642	221.2	104.3	430	3643	625.8	104.3	430	3644	825.7	104.3	430	3645	1220.3	104.3	430
3646	1420.2	104.3	430	3647	1824.8	104.3	430	3648	2190.2	104.3	430	3649	2594.8	104.3	430
3650	2794.7	104.3	430	3651	3189.3	104.3	430	3652	3388.6	104.3	430	3653	3788.6	104.3	430
3654	3934.4	105.2	430	3655	170.6	108.2	430	3656	676.4	108.2	430	3657	776.3	108.2	430
3658	1269.7	108.2	430	3659	1369.6	108.2	430	3660	1875.4	108.2	430	3661	2139.6	108.2	430
3662	2645.4	108.2	430	3663	2745.3	108.2	430	3664	3238.7	108.2	430	3665	3338.3	108.2	430
3666	3835.8	108.2	430	3667	43.5	120	430	3668	81.8	120	430	3669	120	120	430
3670	727	120	430	3671	1319	120	430	3672	1926	120	430	3673	1964.2	120	430
3674	2002.5	120	430	3675	2012.5	120	430	3676	2050.8	120	430	3677	2089	120	430
3678	2696	120	430	3679	3288	120	430	3680	3880	120	430	3681	4140	130.1	430
3682	4089.9	132.4	430	3683	4039.8	134.4	430	3684	3989.5	137.4	430	3685	271.8	140.1	430
3686	575.3	140.1	430	3687	875	140.1	430	3688	1171	140.1	430	3689	1470.8	140.1	430
3690	1774.3	140.1	430	3691	2240.8	140.1	430	3692	2544.3	140.1	430	3693	2844	140.1	430
3694	3140	140.1	430	3695	423.5	140.7	430	3696	1023	140.7	430	3697	1622.5	140.7	430
3698	2392.5	140.7	430	3699	2992	140.7	430	3700	3590.7	140.7	430	3701	372.9	140.7	430
3702	474.1	140.7	430	3703	973.7	140.7	430	3704	1072.3	140.7	430	3705	1571.9	140.7	430
3706	1673.1	140.7	430	3707	2341.9	140.7	430	3708	2443.1	140.7	430	3709	2942.7	140.7	430
3710	3041.3	140.7	430	3711	3540.2	140.7	430	3712	3641.1	140.7	430	3713	322.3	140.8	430
3714	524.7	140.8	430	3715	924.3	140.8	430	3716	1121.7	140.8	430	3717	1521.3	140.8	430
3718	1723.7	140.8	430	3719	2291.3	140.8	430	3720	2493.7	140.8	430	3721	2893.3	140.8	430
3722	3090.7	140.8	430	3723	3489.8	140.8	430	3724	3691.4	140.8	430	3725	3439.3	141	430
3726	3741.5	141	430	3727	221.2	141.1	430	3728	625.8	141.1	430	3729	825.7	141.1	430
3730	1220.3	141.1	430	3731	1420.2	141.1	430	3732	1824.8	141.1	430	3733	2190.2	141.1	430
3734	2594.8	141.1	430	3735	2794.7	141.1	430	3736	3189.3	141.1	430	3737	3388.9	141.1	430
3738	3938.8	141.6	430	3739	3791.1	141.7	430	3740	170.6	143.6	430	3741	676.4	143.6	430
3742	776.3	143.6	430	3743	1269.7	143.6	430	3744	1369.6	143.6	430	3745	1875.4	143.6	430
3746	2139.6	143.6	430	3747	2645.4	143.6	430	3748	2745.3	143.6	430	3749	3238.7	143.6	430
3750	3338.4	143.6	430	3751	3839.8	143.6	430	3752	120	147.7	430	3753	727	147.7	430
3754	1319	147.7	430	3755	1926	147.7	430	3756	2089	147.7	430	3757	2696	147.7	430
3758	3288	147.7	430	3759	3887.5	147.7	430	3760	43.5	175.5	430	3761	81.8	175.5	430
3762	120	175.5	430	3763	120	175.5	430	3764	135	175.5	430	3765	170.6	175.5	430
3766	221.2	175.5	430	3767	271.8	175.5	430	3768	322.3	175.5	430	3769	372.9	175.5	430
3770	423.5	175.5	430	3771	474.1	175.5	430	3772	524.7	175.5	430	3773	575.3	175.5	430
3774	625.8	175.5	430	3775	676.4	175.5	430	3776	727	175.5	430	3777	776.3	175.5	430
3778	825.7	175.5	430	3779	875	175.5	430	3780	924.3	175.5	430	3781	973.7	175.5	430
3782	1023	175.5	430	3783	1072.3	175.5	430	3784	1121.7	175.5	430	3785	1171	175.5	430
3786	1220.3	175.5	430	3787	1269.7	175.5	430	3788	1319	175.5	430	3789	1369.6	175.5	430
3790	1420.2	175.5	430	3791	1470.8	175.5	430	3792	1521.3	175.5	430	3793	1571.9	175.5	430
3794	1622.5	175.5	430	3795	1673.1	175.5	430	3796	1723.7	175.5	430	3797	1774.3	175.5	430
3798	1824.8	175.5	430	3799	1875.4	175.5	430	3800	1911	175.5	430	3801	1926	175.5	430
3802	1926	175.5	430	3803	1964.3	175.5	430	3804	2002.5	175.5	430	3805	2012.5	175.5	430
3806	2050.8	175.5	430	3807	2089	175.5	430	3808	2089	175.5	430	3809	2104	175.5	430
3810	2139.6	175.5	430	3811	2190.2	175.5	430	3812	2240.8	175.5	430	3813	2291.3	175.5	430
3814	2341.9	175.5	430	3815	2392.5	175.5	430	3816	2443.1	175.5	430	3817	2493.7	175.5	430
3818	2544.3	175.5	430	3819	2594.8	175.5	430	3820	2645.4	175.5	430	3821	2696	175.5	430
3822	2745.3	175.5	430	3823	2794.7	175.5	430	3824	2844	175.5	430	3825	2893.3	175.5	430
3826	2942.7	175.5	430	3827	2992	175.5	430	3828	3041.3	175.5	430	3829	3090.7	175.5	430
3830	3140	175.5	430	3831	3189.3	175.5	430	3832	3238.7	175.5	430	3833	3288	175.5	430
3834	3338.6	175.5	430	3835	3389.2	175.5	430	3836	3439.8	175.5	430	3837	3490.3	175.5	430
3838	3540.9	175.5	430	3839	3591.5	175.5	430	3840	3642.1	175.5	430	3841	3692.7	175.5	430
3842	3743.3	175.5	430	3843	3793.8	175.5	430	3844	3844.4	175.5	430	3845	3880	175.5	430
3846	3895	175.5	430	3847	3944	175.5	430	3848	3993	175.5	430	3849	4042	175.5	430
3850	4091	175.5	430	3851	4140	175.5	430	3852	2012.5	224.8	430	3853	2050.8	224.8	430
3854	2089	224.8	430	3855	2089	224.8	430	3856	2104	224.8	430	3857	2139.6	224.8	430
3858	2190.2	224.8	430	3859	2240.8	224.8	430	3860	2291.3	224.8	430	3861	2341.9	224.8	430
3862	2392.5	224.8	430	3863	2443.1	224.8	430	3864	2493.7	224.8	430	3865	2544.2	224.8	430
3866	2594.8	224.8	430	3867	2645.2	224.8	430	3868	2695.4	224.8	430	3869	2745.1	224.8	430
3870	2794.6	224.8	430	3871	2844	224.8	430	3872	2893.3	224.8	430	3873	2942.7	224.8	430
3874	2992	224.8	430	3875	3041.3	224.8	430	3876	3090.7	224.8	430	3877	3140	224.8	430
3878	43.5	224.8	430	3879	81.8	224.8	430	3880	120	224.8	430	3881	120	224.8	430
3882	135	224.8	430	3883	3189.4	224.8	430	3884	170.6	224.8	430	3885	3238.9	224.8	430
3886	221.2	224.8	430	3887	3288.6	224.8	430	3888	271.7	224.8	430	3889	3338.8	224.8	430
3890	3389.2	224.8	430	3891	322.3	224.8	430	3892	3439.8	224.8	430	3893	372.9	224.8	430
3894	3490.3	224.8	430	3895	423.5	224.8	430	3896	3540.9	224.8	430	3897	474.1	224.8	430
3898	3591.5	224.8	430	3899	524.7	224.8	430	3900	3642.1	224.8	430	3901	575.2	224.8	430
3902	3692.7	224.8	430	3903	625.8	224.8	430	3904	3743.2	224.8	430	3905	3793.8	224.8	430
3906	676.2	224.8	430	3907	3844.4	224.8	430	3908	726.4	224.8	430	3909	3880	224.8	430
3910	3895	224.8	430	3911	776.1	224.8	430	3912	3944	224.8	430	3913	825.6	224.8	430
3914	3993	224.8	430	3915	875	224.8	430	3916	4042	224.8	430	3917	924.3	224.8	430
3918	4091	224.8	430	3919	973.7	224.8	430	3920	4140	224.8	430	3921	1023	224.8	430
3922	1072.3	224.8	430	3923	1121.7	224.8	430	3924	1171	224.8	430	3925	1220.4	224.8	430
3926	1269.9	224.8	430	3927	1319.6	224.8	430	3928	1369.8	224.8	430	3929	1420.2	224.8	430
3930	1470.8	224.8	430	3931	1521.3	224.8	430	3932	1571.9	224.8	430	3933	1622.5	224.8	430
3934	1673.1	224.8	430	3935	1723.7	224.8	430	3936	1774.2	224.8	430	3937	1824.8	224.8	430
3938	1875.4	224.8	430	3939	1911	224.8	430	3940	1926	224.8	430	3941	1926	224.8	430
3942	1964.3	224.8	430	3943	2002.5	224.8	430	3944	2012.5	274.1	430	3945	2050.8	274.1	430
3946	2089	274.1	430	3947	2089	274.1	430	3948	2104	274.1	430	3949	2139.6	274.1	430
3950	2190.2	274.1	430	3951	2240.8	274.1	430	3952	2291.3	274.1	430	3953	2341.9	274.1	430
3954	2392.5	274.1	430	3955	2443.1	274.2	430	3956	2493.7	274.2	430	3957	2544.2	274.2	430

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
3958	2594.7	274.2	430	3959	2645.1	274.2	430	3960	2695.2	274.2	430	3961	2745	274.2	430
3962	2794.5	274.2	430	3963	2844	274.2	430	3964	2893.3	274.2	430	3965	2942.7	274.2	430
3966	2992	274.2	430	3967	3041.3	274.2	430	3968	3090.7	274.2	430	3969	3140	274.2	430
3970	43.5	274.2	430	3971	81.8	274.2	430	3972	120	274.2	430	3973	120	274.2	430
3974	135	274.2	430	3975	3189.5	274.2	430	3976	170.6	274.2	430	3977	3239	274.2	430
3978	3288.8	274.2	430	3979	221.2	274.2	430	3980	3338.9	274.2	430	3981	271.7	274.2	430
3982	3389.3	274.2	430	3983	322.3	274.2	430	3984	3439.8	274.2	430	3985	372.9	274.2	430
3986	3490.3	274.2	430	3987	423.5	274.2	430	3988	3540.9	274.2	430	3989	474.1	274.2	430
3990	3591.5	274.2	430	3991	524.7	274.2	430	3992	3642.1	274.2	430	3993	3692.7	274.2	430
3994	575.2	274.2	430	3995	3743.2	274.2	430	3996	625.7	274.2	430	3997	3793.8	274.2	430
3998	676.1	274.2	430	3999	3844.4	274.2	430	4000	726.2	274.2	430	4001	3880	274.2	430
4002	3895	274.2	430	4003	776	274.2	430	4004	3944	274.2	430	4005	825.5	274.2	430
4006	3993	274.2	430	4007	875	274.2	430	4008	4042	274.2	430	4009	924.3	274.2	430
4010	4091	274.2	430	4011	4140	274.2	430	4012	973.7	274.2	430	4013	1023	274.2	430
4014	1072.3	274.2	430	4015	1121.7	274.2	430	4016	1171	274.2	430	4017	1220.5	274.2	430
4018	1270	274.2	430	4019	1319.8	274.2	430	4020	1369.9	274.2	430	4021	1420.3	274.2	430
4022	1470.8	274.2	430	4023	1521.3	274.2	430	4024	1571.9	274.2	430	4025	1622.5	274.2	430
4026	1673.1	274.2	430	4027	1723.7	274.2	430	4028	1774.2	274.2	430	4029	1824.8	274.2	430
4030	1875.4	274.2	430	4031	1926	274.2	430	4032	1911	274.2	430	4033	1926	274.2	430
4034	1964.3	274.2	430	4035	2002.5	274.2	430	4036	2012.5	323.5	430	4037	2050.8	323.5	430
4038	2089	323.5	430	4039	2089	323.5	430	4040	2104	323.5	430	4041	2139.6	323.5	430
4042	2190.2	323.5	430	4043	2240.8	323.5	430	4044	2291.3	323.5	430	4045	2341.9	323.5	430
4046	2392.5	323.5	430	4047	2443.1	323.5	430	4048	2493.7	323.5	430	4049	2544.2	323.5	430
4050	2594.7	323.5	430	4051	2645	323.5	430	4052	2695.1	323.5	430	4053	2744.9	323.5	430
4054	2794.5	323.5	430	4055	2844	323.5	430	4056	2893.3	323.5	430	4057	2942.7	323.5	430
4058	2992	323.5	430	4059	3041.3	323.5	430	4060	3090.7	323.5	430	4061	3140	323.5	430
4062	43.5	323.5	430	4063	81.8	323.5	430	4064	120	323.5	430	4065	120	323.5	430
4066	135	323.5	430	4067	3189.5	323.5	430	4068	170.6	323.5	430	4069	3239.1	323.5	430
4070	3288.9	323.5	430	4071	221.2	323.5	430	4072	3339	323.5	430	4073	271.7	323.5	430
4074	3389.3	323.5	430	4075	322.3	323.5	430	4076	3439.8	323.5	430	4077	372.9	323.5	430
4078	3490.3	323.5	430	4079	423.5	323.5	430	4080	3540.9	323.5	430	4081	474.1	323.5	430
4082	3591.5	323.5	430	4083	524.7	323.5	430	4084	3642.1	323.5	430	4085	3692.6	323.5	430
4086	575.2	323.5	430	4087	3743.2	323.5	430	4088	625.7	323.5	430	4089	3793.8	323.5	430
4090	676	323.5	430	4091	3844.4	323.5	430	4092	726.1	323.5	430	4093	3880	323.5	430
4094	3895	323.5	430	4095	775.9	323.5	430	4096	3944	323.5	430	4097	825.5	323.5	430
4098	3993	323.5	430	4099	875	323.5	430	4100	4042	323.5	430	4101	924.3	323.5	430
4102	4091	323.5	430	4103	4140	323.5	430	4104	973.7	323.5	430	4105	1023	323.5	430
4106	1072.3	323.5	430	4107	1121.7	323.5	430	4108	1171	323.5	430	4109	1220.5	323.5	430
4110	1270.1	323.5	430	4111	1319.9	323.5	430	4112	1370	323.5	430	4113	1420.3	323.5	430
4114	1470.8	323.5	430	4115	1521.3	323.5	430	4116	1571.9	323.5	430	4117	1622.5	323.5	430
4118	1673.1	323.5	430	4119	1723.7	323.5	430	4120	1774.2	323.5	430	4121	1824.8	323.5	430
4122	1875.4	323.5	430	4123	1926	323.5	430	4124	1911	323.5	430	4125	1926	323.5	430
4126	1964.3	323.5	430	4127	2002.5	323.5	430	4128	2012.5	372.8	430	4129	2050.8	372.8	430
4130	2089	372.8	430	4131	2089	372.8	430	4132	2104	372.8	430	4133	2139.6	372.8	430
4134	2190.2	372.8	430	4135	2240.8	372.8	430	4136	2291.3	372.8	430	4137	2341.9	372.8	430
4138	2392.5	372.8	430	4139	2443.1	372.8	430	4140	2493.7	372.8	430	4141	2544.2	372.8	430
4142	2594.7	372.8	430	4143	2645	372.8	430	4144	2695.1	372.8	430	4145	2744.9	372.8	430
4146	2794.5	372.8	430	4147	2844	372.8	430	4148	2893.3	372.8	430	4149	2942.7	372.8	430
4150	2992	372.8	430	4151	3041.3	372.8	430	4152	3090.7	372.8	430	4153	3140	372.8	430
4154	43.5	372.8	430	4155	81.8	372.8	430	4156	120	372.8	430	4157	120	372.8	430
4158	135	372.8	430	4159	3189.5	372.8	430	4160	170.6	372.8	430	4161	3239.1	372.8	430
4162	3288.9	372.8	430	4163	221.2	372.8	430	4164	3339	372.8	430	4165	271.7	372.8	430
4166	3389.3	372.8	430	4167	322.3	372.8	430	4168	3439.8	372.8	430	4169	372.9	372.8	430
4170	3490.3	372.8	430	4171	423.5	372.8	430	4172	3540.9	372.8	430	4173	474.1	372.8	430
4174	3591.5	372.8	430	4175	524.7	372.8	430	4176	3642.1	372.8	430	4177	3692.6	372.8	430
4178	575.2	372.8	430	4179	3743.2	372.8	430	4180	625.7	372.8	430	4181	3793.8	372.8	430
4182	676	372.8	430	4183	3844.4	372.8	430	4184	726.1	372.8	430	4185	3880	372.8	430
4186	3895	372.8	430	4187	775.9	372.8	430	4188	3944	372.8	430	4189	825.5	372.8	430
4190	3993	372.8	430	4191	875	372.8	430	4192	4042	372.8	430	4193	4091	372.8	430
4194	924.3	372.8	430	4195	4140	372.8	430	4196	973.7	372.8	430	4197	1023	372.8	430
4198	1072.3	372.8	430	4199	1121.7	372.8	430	4200	1171	372.8	430	4201	1220.5	372.8	430
4202	1270.1	372.8	430	4203	1319.9	372.8	430	4204	1370	372.8	430	4205	1420.3	372.9	430
4206	1470.8	372.9	430	4207	1521.3	372.9	430	4208	1571.9	372.9	430	4209	1622.5	372.9	430
4210	1673.1	372.9	430	4211	1723.7	372.9	430	4212	1774.2	372.9	430	4213	1824.8	372.9	430
4214	1875.4	372.9	430	4215	1926	372.9	430	4216	1911	372.9	430	4217	1926	372.9	430
4218	1964.3	372.9	430	4219	2002.5	372.9	430	4220	2012.5	422.1	430	4221	2050.8	422.1	430
4222	2089	422.1	430	4223	2089	422.1	430	4224	2104	422.1	430	4225	2139.6	422.1	430
4226	2190.2	422.1	430	4227	2240.8	422.1	430	4228	2291.3	422.1	430	4229	2341.9	422.1	430
4230	2392.5	422.1	430	4231	2443.1	422.1	430	4232	2493.7	422.1	430	4233	2544.2	422.1	430
4234	2594.7	422.1	430	4235	2645	422.1	430	4236	2695.1	422.1	430	4237	2744.9	422.1	430
4238	2794.5	422.1	430	4239	2844	422.1	430	4240	2893.3	422.1	430	4241	2942.7	422.1	430
4242	2992	422.1	430	4243	3041.3	422.1	430	4244	3090.7	422.1	430	4245	3140	422.1	430
4246	43.5	422.1	430	4247	81.8	422.1	430	4248	120	422.1	430	4249	120	422.1	430
4250	135	422.1	430	4251	3189.5	422.1	430	4252	170.6	422.1	430	4253	3239.1	422.1	430
4254	3288.9	422.1	430	4255	221.2	422.2	430	4256	3339	422.2	430	4257	271.7	422.2	430
4258	3389.3	422.2	430	4259	322.3	422.2	430	4260	3439.8	422.2	430	4261	372.9	422.2	430
4262	3490.3	422.2	430	4263	423.5	422.2	430	4264	3540.9	422.2	430	4265	474.1	422.2	430
4266	3591.5	422.2	430	4267	524.7	422.2	430	4268	3642.1	422.2	430	4269	3692.6	422.2	430
4270	575.2	422.2	430	4271	3743.2	422.2	430	4272	625.7	422.2	430	4273	3793.8	422.2	430
4274	676	422.2	430	4275	3844.4	422.2	430	4276	726.1	422.2	430	4277	3880	422.2	430
4278	3895	422.2	430	4279	775.9	422.2	430	4280	3944	422.2	430	4281	825.5	422.2	430
4282	3993	422.2	430	4283	875	422.2	430	4284	4042	422.2	430	4285	4091	422.2	430
4286	924.3	422.2	430	4287	4140	422.2	430	4288	973.7	422.2	430	4289	1023	422.2	430
4290	1072.3	422.2	430	4291	1121.7	422.2	430	4292	1171	422.2	430	4293	1220.5	422.2	430
4294	1270.1	422.2	430	4295	1319.9	422.2	430	4296	1370	422.2	430	4297	1420.3	422.2	430
4298	1470.8	422.2	430	4299	1521.3	422.2	430	4300	1571.9	422.2	430	4301	1622.5	422.2	430
4302	1673.1	422.2	430	4303	1723.7	422.2	430	4304	1774.2	422.2	430	4305	1824.8	422.2	430
4306	1875.4	422.2	430	4307	1926	422.2	430	4308	1911	422.2	430	4309	1926	422.2	430
4310	1964.3	422.2	430	4311	2002.5	422.2	430	4312	2012.5	471.4	430	4313	2050.8	471.4	430
4314	2089	471.4	430	4315	2089	471.4	430	4316	2104	471.4	430	4317	2139.6	471.4	430
4318	2190.2	471.4	430	4319	2240.8	471.4	430	4320	2291.3	471.4	430	4321	2341.9	471.4	430
4322	2392.5	471.4	430	4323	2443.1	471.5	430	4324	2493.7	471.5	430	4325	2544.2	471.5	430
4326	2594.7	471.5	430	4327	2645	471.5	430	4328	2695.1	471.5	430	4329	2744.9	471.5	430
4330	2794.5	471.5	430	4331	2844	471.5	430	4332	2893.3	471.5	430	4333	2942.7	471.5	430
4334	2992	471.5	430	4335	3041.3	471.5	430	4336	3090.7	471.5	430	4337	3140	471.5	430
4338	43.5	471.5	430	4339	81.8	471.5	430	4340	120	471.5	430	4341	120	471.5	430
4342	135	471.5	430	4343	3189.5	471.5	430	4344	170.6	471.5	430	4345	3239	471.5	430

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
4346	3288.9	471.5	430	4347	221.2	471.5	430	4348	3339	471.5	430	4349	271.7	471.5	430
4350	3389.3	471.5	430	4351	322.3	471.5	430	4352	3439.8	471.5	430	4353	372.9	471.5	430
4354	3490.3	471.5	430	4355	423.5	471.5	430	4356	3540.9	471.5	430	4357	474.1	471.5	430
4358	3591.5	471.5	430	4359	524.7	471.5	430	4360	3642.1	471.5	430	4361	3692.6	471.5	430
4362	575.2	471.5	430	4363	3743.2	471.5	430	4364	625.7	471.5	430	4365	3793.8	471.5	430
4366	676	471.5	430	4367	3844.4	471.5	430	4368	726.1	471.5	430	4369	3880	471.5	430
4370	3894.9	471.5	430	4371	775.9	471.5	430	4372	3944	471.5	430	4373	825.5	471.5	430
4374	3993	471.5	430	4375	875	471.5	430	4376	4042	471.5	430	4377	4091	471.5	430
4378	924.3	471.5	430	4379	4140	471.5	430	4380	973.7	471.5	430	4381	1023	471.5	430
4382	1072.3	471.5	430	4383	1121.7	471.5	430	4384	1171	471.5	430	4385	1220.5	471.5	430
4386	1270.1	471.5	430	4387	1319.9	471.5	430	4388	1370	471.5	430	4389	1420.3	471.5	430
4390	1470.8	471.5	430	4391	1521.3	471.5	430	4392	1571.9	471.5	430	4393	1622.5	471.5	430
4394	1673.1	471.5	430	4395	1723.7	471.5	430	4396	1774.2	471.5	430	4397	1824.8	471.5	430
4398	1875.4	471.5	430	4399	1926	471.5	430	4400	1911	471.5	430	4401	1926	471.5	430
4402	1964.3	471.5	430	4403	2002.5	471.5	430	4404	2012.5	520.8	430	4405	2050.8	520.8	430
4406	2089	520.8	430	4407	2089	520.8	430	4408	2104	520.8	430	4409	2139.6	520.8	430
4410	2190.2	520.8	430	4411	2240.8	520.8	430	4412	2291.3	520.8	430	4413	2341.9	520.8	430
4414	2392.5	520.8	430	4415	2443.1	520.8	430	4416	2493.7	520.8	430	4417	2544.2	520.8	430
4418	2594.7	520.8	430	4419	2645.1	520.8	430	4420	2695.2	520.8	430	4421	2745	520.8	430
4422	2794.5	520.8	430	4423	2844	520.8	430	4424	2893.3	520.8	430	4425	2942.7	520.8	430
4426	2992	520.8	430	4427	3041.3	520.8	430	4428	3090.7	520.8	430	4429	3140	520.8	430
4430	43.5	520.8	430	4431	81.8	520.8	430	4432	120	520.8	430	4433	120	520.8	430
4434	135	520.8	430	4435	3189.5	520.8	430	4436	3239	520.8	430	4437	170.6	520.8	430
4438	3288.8	520.8	430	4439	221.2	520.8	430	4440	3338.9	520.8	430	4441	271.7	520.8	430
4442	3389.3	520.8	430	4443	322.3	520.8	430	4444	3439.8	520.8	430	4445	372.9	520.8	430
4446	3490.3	520.8	430	4447	423.5	520.8	430	4448	3540.9	520.8	430	4449	474.1	520.8	430
4450	3591.5	520.8	430	4451	524.7	520.8	430	4452	3642	520.8	430	4453	3692.6	520.8	430
4454	575.2	520.8	430	4455	3743.2	520.8	430	4456	625.7	520.8	430	4457	3793.8	520.8	430
4458	676.1	520.8	430	4459	3844.4	520.8	430	4460	726.2	520.8	430	4461	3880	520.8	430
4462	3894.9	520.8	430	4463	776	520.8	430	4464	3944	520.8	430	4465	825.5	520.8	430
4466	3993	520.8	430	4467	875	520.8	430	4468	4042	520.8	430	4469	4091	520.8	430
4470	924.3	520.8	430	4471	4140	520.8	430	4472	973.7	520.8	430	4473	1023	520.8	430
4474	1072.3	520.8	430	4475	1121.7	520.9	430	4476	1171	520.9	430	4477	1220.5	520.9	430
4478	1270	520.9	430	4479	1319.8	520.9	430	4480	1369.9	520.9	430	4481	1420.3	520.9	430
4482	1470.8	520.9	430	4483	1521.3	520.9	430	4484	1571.9	520.9	430	4485	1622.5	520.9	430
4486	1673.1	520.9	430	4487	1723.7	520.9	430	4488	1774.2	520.9	430	4489	1824.8	520.9	430
4490	1875.4	520.9	430	4491	1926	520.9	430	4492	1911	520.9	430	4493	1926	520.9	430
4494	1964.3	520.9	430	4495	2002.5	520.9	430	4496	2012.5	570.1	430	4497	2050.8	570.1	430
4498	2089	570.1	430	4499	2089	570.1	430	4500	2104	570.1	430	4501	2139.6	570.1	430
4502	2190.2	570.1	430	4503	2240.8	570.1	430	4504	2291.3	570.1	430	4505	2341.9	570.1	430
4506	2392.5	570.1	430	4507	2443.1	570.1	430	4508	2493.7	570.1	430	4509	2544.2	570.1	430
4510	2594.8	570.1	430	4511	2645.2	570.1	430	4512	2695.4	570.1	430	4513	2745.1	570.1	430
4514	2794.6	570.1	430	4515	2844	570.1	430	4516	2893.3	570.1	430	4517	2942.7	570.1	430
4518	2992	570.1	430	4519	3041.3	570.1	430	4520	3090.7	570.1	430	4521	3140	570.1	430
4522	43.5	570.1	430	4523	81.8	570.1	430	4524	120	570.1	430	4525	120	570.1	430
4526	135	570.1	430	4527	3189.4	570.1	430	4528	3238.9	570.1	430	4529	170.6	570.1	430
4530	3288.6	570.1	430	4531	221.2	570.1	430	4532	3338.8	570.1	430	4533	271.7	570.1	430
4534	3389.2	570.1	430	4535	322.3	570.1	430	4536	3439.8	570.1	430	4537	372.9	570.1	430
4538	3490.3	570.1	430	4539	423.5	570.2	430	4540	3540.9	570.2	430	4541	474.1	570.2	430
4542	3591.5	570.2	430	4543	524.7	570.2	430	4544	3642	570.2	430	4545	3692.6	570.2	430
4546	575.2	570.2	430	4547	3743.2	570.2	430	4548	625.8	570.2	430	4549	3793.8	570.2	430
4550	676.2	570.2	430	4551	3844.4	570.2	430	4552	726.4	570.2	430	4553	3880	570.2	430
4554	3894.9	570.2	430	4555	776.1	570.2	430	4556	3943.9	570.2	430	4557	825.6	570.2	430
4558	3993	570.2	430	4559	875	570.2	430	4560	4042	570.2	430	4561	4091	570.2	430
4562	924.3	570.2	430	4563	4140	570.2	430	4564	973.7	570.2	430	4565	1023	570.2	430
4566	1072.3	570.2	430	4567	1121.7	570.2	430	4568	1171	570.2	430	4569	1220.4	570.2	430
4570	1269.9	570.2	430	4571	1319.6	570.2	430	4572	1369.8	570.2	430	4573	1420.2	570.2	430
4574	1470.8	570.2	430	4575	1521.3	570.2	430	4576	1571.9	570.2	430	4577	1622.5	570.2	430
4578	1673.1	570.2	430	4579	1723.7	570.2	430	4580	1774.2	570.2	430	4581	1824.8	570.2	430
4582	1875.4	570.2	430	4583	1926	570.2	430	4584	1911	570.2	430	4585	1926	570.2	430
4586	1964.3	570.2	430	4587	2002.5	570.2	430	4588	2012.5	619.4	430	4589	2050.8	619.4	430
4590	2089	619.4	430	4591	2089	619.4	430	4592	2104	619.4	430	4593	2139.6	619.4	430
4594	2190.2	619.4	430	4595	2240.8	619.4	430	4596	2291.3	619.4	430	4597	2341.9	619.4	430
4598	2392.5	619.4	430	4599	2443.1	619.4	430	4600	2493.7	619.4	430	4601	2544.3	619.4	430
4602	2594.8	619.4	430	4603	2645.4	619.4	430	4604	2696	619.4	430	4605	2745.3	619.4	430
4606	2794.7	619.4	430	4607	2844	619.4	430	4608	2893.3	619.4	430	4609	2942.7	619.5	430
4610	2992	619.5	430	4611	3041.3	619.5	430	4612	3090.7	619.5	430	4613	3140	619.5	430
4614	43.5	619.5	430	4615	81.8	619.5	430	4616	120	619.5	430	4617	120	619.5	430
4618	135	619.5	430	4619	3189.3	619.5	430	4620	3238.7	619.5	430	4621	170.6	619.5	430
4622	3288	619.5	430	4623	221.2	619.5	430	4624	3338.6	619.5	430	4625	271.8	619.5	430
4626	3389.2	619.5	430	4627	322.3	619.5	430	4628	3439.7	619.5	430	4629	372.9	619.5	430
4630	3490.3	619.5	430	4631	423.5	619.5	430	4632	3540.9	619.5	430	4633	474.1	619.5	430
4634	3591.5	619.5	430	4635	3642	619.5	430	4636	524.7	619.5	430	4637	3692.6	619.5	430
4638	575.3	619.5	430	4639	3743.2	619.5	430	4640	625.8	619.5	430	4641	3793.8	619.5	430
4642	676.4	619.5	430	4643	3844.3	619.5	430	4644	727	619.5	430	4645	3880	619.5	430
4646	3894.9	619.5	430	4647	776.3	619.5	430	4648	3943.9	619.5	430	4649	825.7	619.5	430
4650	3993	619.5	430	4651	4042	619.5	430	4652	875	619.5	430	4653	4091	619.5	430
4654	924.3	619.5	430	4655	4140	619.5	430	4656	973.7	619.5	430	4657	1023	619.5	430
4658	1072.3	619.5	430	4659	1121.7	619.5	430	4660	1171	619.5	430	4661	1220.3	619.5	430
4662	1269.7	619.5	430	4663	1319	619.5	430	4664	1369.6	619.5	430	4665	1420.2	619.5	430
4666	1470.7	619.5	430	4667	1521.3	619.5	430	4668	1571.9	619.5	430	4669	1622.5	619.6	430
4670	1673.1	619.6	430	4671	1723.7	619.6	430	4672	1774.2	619.6	430	4673	1824.8	619.6	430
4674	1875.4	619.6	430	4675	1911	619.6	430	4676	1926	619.6	430	4677	1926	619.6	430
4678	1964.3	619.6	430	4679	2002.5	619.6	430	4680	2089	647.2	430	4681	2696	647.2	430
4682	120	647.2	430	4683	3288	647.2	430	4684	727	647.2	430	4685	3887.5	647.3	430
4686	1319	647.3	430	4687	1926	647.3	430	4688	3338.1	650.9	430	4689	3838.5	651.2	430
4690	2139.6	651.4	430	4691	2645.4	651.4	430	4692	2745.3	651.4	430	4693	3238.7	651.4	430
4694	170.6	651.4	430	4695	676.4	651.4	430	4696	776.3	651.4	430	4697	1269.7	651.4	430
4698	1369.6	651.4	430	4699	1875.4	651.4	430	4700	3438.2	652.1	430	4701	3388.2	652.2	430
4702	3488.3	652.3	430	4703	3538.4	652.4	430	4704	3588.4	652.4	430	4705	3638.5	652.4	430
4706	3688.6	652.4	430	4707	3738.7	652.4	430	4708	3788.8	652.4	430	4709	3939.5	653.6	430
4710	2190.2	653.9	430	4711	2594.8	653.9	430	4712	2794.7	653.9	430	4713	3189.3	653.9	430
4714	221.2	653.9	430	4715	625.8	653.9	430	4716	825.7	653.9	430	4717	1220.3	653.9	430
4718	1420.2	653.9	430	4719	1824.8	653.9	430	4720	2291.3	654.2	430	4721	2493.7	654.2	430
4722	3090.7	654.2	430	4723	322.3	654.2	430	4724	524.7	654.2	430	4725	2341.9	654.2	430
4726	2443.1	654.2	430	4727	2392.5	654.2	430	4728	924.3	654.2	430	4729	3041.3	654.2	430
4730	2992	654.2	430	4731	1521.3	654.3	430	4732	372.9	654.3	430	4733	474.1	654.3	430

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
4734	423.5	654.3	430	4735	973.7	654.3	430	4736	1023	654.3	430	4737	1571.9	654.3	430
4738	1622.5	654.3	430	4739	2942.7	654.8	430	4740	2240.8	654.8	430	4741	2544.3	654.8	430
4742	1072.3	654.8	430	4743	2844	654.8	430	4744	3140	654.9	430	4745	1673.1	654.9	430
4746	271.8	654.9	430	4747	575.3	654.9	430	4748	875	654.9	430	4749	1171	654.9	430
4750	1470.7	654.9	430	4751	1774.2	654.9	430	4752	2893.3	655.5	430	4753	1121.7	655.5	430
4754	1723.7	655.5	430	4755	3990.5	657.7	430	4756	4040.7	660.5	430	4757	4090.5	662.8	430
4758	4140	664.9	430	4759	43.5	675	430	4760	81.8	675	430	4761	120	675	430
4762	727	675	430	4763	1319	675	430	4764	1926	675	430	4765	1964.3	675	430
4766	2002.5	675	430	4767	2012.5	675	430	4768	2050.8	675	430	4769	2089	675	430
4770	2696	675	430	4771	3288	675	430	4772	3880	675	430	4773	3337.7	685.5	430
4774	2139.6	686.8	430	4775	2645.4	686.8	430	4776	2745.3	686.8	430	4777	3238.7	686.8	430
4778	170.6	686.8	430	4779	676.4	686.8	430	4780	776.3	686.8	430	4781	1269.7	686.8	430
4782	1369.6	686.8	430	4783	1875.4	686.8	430	4784	3833.9	687.1	430	4785	3387.4	689	430
4786	3437.1	690.3	430	4787	3935.7	690.5	430	4788	3785.1	690.5	430	4789	2190.2	690.7	430
4790	2594.8	690.7	430	4791	2794.7	690.7	430	4792	3189.3	690.7	430	4793	221.2	690.7	430
4794	625.8	690.7	430	4795	825.7	690.7	430	4796	1220.3	690.7	430	4797	1420.2	690.7	430
4798	1824.8	690.7	430	4799	3486.8	690.8	430	4800	3536.6	690.9	430	4801	3586.3	691	430
4802	3636.1	691	430	4803	3685.8	691	430	4804	3735.5	691	430	4805	2240.8	691.9	430
4806	2544.3	691.9	430	4807	2844	691.9	430	4808	3140	691.9	430	4809	271.8	691.9	430
4810	575.3	691.9	430	4811	875	691.9	430	4812	1171	691.9	430	4813	1470.7	691.9	430
4814	1774.2	691.9	430	4815	2291.3	692.2	430	4816	2493.7	692.2	430	4817	3090.7	692.2	430
4818	322.3	692.2	430	4819	524.7	692.2	430	4820	924.3	692.2	430	4821	1521.3	692.2	430
4822	2341.9	692.3	430	4823	2443.1	692.3	430	4824	2392.5	692.3	430	4825	3041.3	692.3	430
4826	372.9	692.3	430	4827	2992	692.3	430	4828	474.1	692.3	430	4829	423.5	692.3	430
4830	973.7	692.3	430	4831	1023	692.3	430	4832	1571.9	692.3	430	4833	1622.5	692.3	430
4834	2893.3	692.8	430	4835	1121.7	692.8	430	4836	1723.7	692.8	430	4837	2942.7	692.9	430
4838	1072.3	693	430	4839	1673.1	693	430	4840	3988.4	698.1	430	4841	4039.6	702.8	430
4842	4090	706.7	430	4843	4140	710.2	430	4844	43.5	727.4	430	4845	81.8	727.4	430
4846	120	727.4	430	4847	727	727.4	430	4848	1964.3	727.4	430	4849	2002.5	727.4	430
4850	2012.5	727.4	430	4851	2050.8	727.4	430	4852	2089	727.4	430	4853	2696	727.4	430
4854	3288	727.4	430	4855	3880	727.4	430	4856	1319	727.4	430	4857	1926	727.4	430
4858	3337.5	731.4	430	4859	2645.4	732	430	4860	3238.7	732	430	4861	676.4	732	430
4862	776.3	732	430	4863	1369.6	732	430	4864	2745.3	732.6	430	4865	1269.7	732.6	430
4866	1875.4	732.6	430	4867	2139.6	732.6	430	4868	170.6	732.7	430	4869	3832	732.7	430
4870	3387	733.6	430	4871	2594.8	734.2	430	4872	3189.3	734.2	430	4873	625.8	734.2	430
4874	825.7	734.2	430	4875	1420.2	734.2	430	4876	3436.5	734.6	430	4877	2544.3	734.9	430
4878	3140	734.9	430	4879	575.3	734.9	430	4880	875	734.9	430	4881	1470.7	735	430
4882	3486	735	430	4883	2190.2	735.1	430	4884	2493.7	735.2	430	4885	3090.7	735.2	430
4886	524.7	735.2	430	4887	924.3	735.2	430	4888	1521.3	735.2	430	4889	3535.6	735.2	430
4890	2341.9	735.2	430	4891	2443.1	735.2	430	4892	3041.3	735.2	430	4893	2392.5	735.2	430
4894	372.9	735.2	430	4895	474.1	735.2	430	4896	973.7	735.2	430	4897	423.5	735.2	430
4898	1571.9	735.2	430	4899	3585.1	735.3	430	4900	3634.6	735.3	430	4901	3684.2	735.3	430
4902	3783.2	735.4	430	4903	2794.7	735.6	430	4904	1220.3	735.6	430	4905	221.2	735.6	430
4906	1824.8	735.6	430	4907	2240.8	735.6	430	4908	2992	735.8	430	4909	2291.3	735.8	430
4910	1023	735.8	430	4911	1622.5	735.8	430	4912	322.3	735.8	430	4913	3733.8	735.8	430
4914	2942.7	736	430	4915	1072.3	736	430	4916	1673.1	736	430	4917	3934.3	736.2	430
4918	2893.3	736.6	430	4919	1121.7	736.6	430	4920	1723.7	736.6	430	4921	271.8	736.7	430
4922	2844	736.8	430	4923	1171	736.8	430	4924	1774.2	736.8	430	4925	3987.2	742.5	430
4926	4038.8	747.4	430	4927	4089.6	751.6	430	4928	4140	755.6	430	4929	43.5	779.8	430
4930	81.8	779.8	430	4931	120	779.8	430	4932	1964.3	779.8	430	4933	2002.5	779.8	430
4934	2012.5	779.8	430	4935	2050.8	779.8	430	4936	2089	779.8	430	4937	2696	779.8	430
4938	3288	779.8	430	4939	3880	779.8	430	4940	727	779.8	430	4941	1319	779.8	430
4942	1926	779.8	430	4943	3337.4	781.3	430	4944	2645.4	781.4	430	4945	3238.7	781.4	430
4946	676.4	781.4	430	4947	776.3	781.4	430	4948	1369.6	781.4	430	4949	2139.6	782	430
4950	170.6	782	430	4951	2745.3	782	430	4952	1269.7	782	430	4953	1875.4	782	430
4954	3831.2	782.2	430	4955	2594.8	782.2	430	4956	3189.3	782.2	430	4957	625.8	782.2	430
4958	825.7	782.2	430	4959	1420.2	782.2	430	4960	3386.8	782.3	430	4961	2544.3	782.5	430
4962	3140	782.5	430	4963	575.3	782.5	430	4964	875	782.5	430	4965	1470.7	782.6	430
4966	2493.7	782.6	430	4967	3090.7	782.6	430	4968	524.7	782.6	430	4969	924.3	782.6	430
4970	1521.3	782.6	430	4971	2341.9	782.7	430	4972	2443.1	782.7	430	4973	3041.3	782.7	430
4974	2392.5	782.7	430	4975	372.9	782.7	430	4976	474.1	782.7	430	4977	2992	782.7	430
4978	973.7	782.7	430	4979	423.5	782.7	430	4980	1571.9	782.7	430	4981	1023	782.7	430
4982	1622.5	782.7	430	4983	3436.2	782.9	430	4984	2291.3	783.2	430	4985	322.3	783.2	430
4986	2942.7	783.2	430	4987	1072.3	783.2	430	4988	1673.1	783.2	430	4989	2893.3	783.2	430
4990	3782.1	783.2	430	4991	1121.7	783.2	430	4992	1723.7	783.2	430	4993	3485.6	783.2	430
4994	2190.2	783.3	430	4995	2240.8	783.3	430	4996	3535.1	783.4	430	4997	3584.5	783.4	430
4998	221.2	783.4	430	4999	3633.9	783.5	430	5000	3683.3	783.5	430	5001	3732.8	783.5	430
5002	2794.7	783.5	430	5003	1220.3	783.5	430	5004	1824.8	783.6	430	5005	2844	783.7	430
5006	1171	783.7	430	5007	1774.2	783.7	430	5008	271.8	784.2	430	5009	3933.5	785.1	430
5010	3986.2	789.7	430	5011	4038	793.7	430	5012	4089.2	797.4	430	5013	4140	800.9	430
5014	43.5	832.2	430	5015	81.8	832.2	430	5016	120	832.2	430	5017	1964.3	832.2	430
5018	2002.5	832.2	430	5019	2012.5	832.2	430	5020	2050.8	832.2	430	5021	2089	832.2	430
5022	2696	832.2	430	5023	3288	832.2	430	5024	3880	832.2	430	5025	727	832.2	430
5026	1319	832.2	430	5027	1926	832.2	430	5028	2139.6	832.6	430	5029	2645.4	832.6	430
5030	2745.3	832.6	430	5031	170.6	832.6	430	5032	3238.7	832.6	430	5033	676.4	832.6	430
5034	776.3	832.6	430	5035	1269.7	832.6	430	5036	1369.6	832.6	430	5037	1875.4	832.6	430
5038	3337.4	832.7	430	5039	2594.8	832.9	430	5040	3189.3	832.9	430	5041	625.8	832.9	430
5042	825.7	832.9	430	5043	1420.2	832.9	430	5044	2240.8	833	430	5045	2544.3	833	430
5046	2844	833	430	5047	3140	833	430	5048	575.3	833	430	5049	875	833	430
5050	1171	833	430	5051	1470.7	833	430	5052	1774.2	833	430	5053	2291.3	833	430
5054	2493.7	833	430	5055	2893.3	833	430	5056	3090.7	833	430	5057	524.7	833	430
5058	924.3	833	430	5059	1121.7	833	430	5060	1521.3	833	430	5061	1723.7	833	430
5062	2341.9	833	430	5063	2443.1	833	430	5064	2392.5	833	430	5065	2942.7	833	430
5066	3041.3	833	430	5067	372.9	833	430	5068	474.1	833	430	5069	2992	833	430
5070	423.5	833	430	5071	973.7	833	430	5072	1072.3	833	430	5073	1023	833	430
5074	1571.9	833	430	5075	1673.1	833	430	5076	1622.5	833	430	5077	3386.7	833.2	430
5078	3830.9	833.2	430	5079	221.2	833.4	430	5080	2190.2	833.4	430	5081	2794.7	833.5	430
5082	1220.3	833.5	430	5083	1824.8	833.5	430	5084	3436.1	833.5	430	5085	271.8	833.5	430
5086	322.3	833.6	430	5087	3485.5	833.7	430	5088	3781.7	833.7	430	5089	3534.8	833.8	430
5090	3584.2	833.8	430	5091	3633.6	833.8	430	5092	3683	833.8	430	5093	3732.3	833.8	430
5094	3933	835.4	430	5095	3985.5	838.3	430	5096	4037.3	841.1	430	5097	4088.8	843.7	430
5098	4140	846.3	430	5099	43.5	884.6	430	5100	81.8	884.6	430	5101	120	884.6	430
5102	1964.3	884.6	430	5103	2002.5	884.6	430	5104	2012.5	884.6	430	5105	2050.8	884.6	430
5106	2089	884.6	430	5107	2696	884.6	430	5108	3288	884.6	430	5109	3880	884.6	430
5110	727	884.6	430	5111	1319	884.6	430	5112	1926	884.6	430	5113	2139.6	884.7	430
5114	170.6	884.7	430	5115	2645.4	884.7	430	5116	2745.3	884.7	430	5117	3238.7	884.7	430
5118	676.4	884.7	430	5119	776.3	884.7	430	5120	1269.7	884.7	430	5121	1369.6	884.7	430

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
5122	1875.4	884.7	430	5123	2190.2	884.8	430	5124	2594.8	884.8	430	5125	2794.7	884.8	430
5126	221.2	884.8	430	5127	3189.3	884.8	430	5128	625.8	884.8	430	5129	825.7	884.8	430
5130	1220.3	884.8	430	5131	1420.2	884.8	430	5132	1824.8	884.8	430	5133	3337.3	884.8	430
5134	2240.8	884.8	430	5135	2544.3	884.8	430	5136	2844	884.8	430	5137	271.8	884.8	430
5138	3140	884.8	430	5139	575.3	884.8	430	5140	875	884.8	430	5141	1171	884.8	430
5142	1470.7	884.8	430	5143	1774.2	884.8	430	5144	2291.3	884.8	430	5145	2493.7	884.8	430
5146	2893.3	884.8	430	5147	3090.7	884.8	430	5148	322.3	884.8	430	5149	524.7	884.8	430
5150	924.3	884.8	430	5151	1121.7	884.8	430	5152	2341.9	884.8	430	5153	2392.5	884.8	430
5154	2443.1	884.8	430	5155	2942.7	884.8	430	5156	2992	884.8	430	5157	3041.3	884.8	430
5158	372.9	884.8	430	5159	1521.3	884.8	430	5160	423.5	884.8	430	5161	474.1	884.8	430
5162	1723.7	884.8	430	5163	973.7	884.8	430	5164	1023	884.8	430	5165	1072.3	884.8	430
5166	1571.9	884.8	430	5167	1622.5	884.8	430	5168	1673.1	884.8	430	5169	3386.7	885	430
5170	3830.8	885	430	5171	3436	885.1	430	5172	3485.4	885.2	430	5173	3781.5	885.2	430
5174	3534.7	885.2	430	5175	3584.1	885.2	430	5176	3633.4	885.2	430	5177	3682.8	885.2	430
5178	3732.1	885.2	430	5179	3932.5	886.1	430	5180	3984.7	887.6	430	5181	4036.7	888.9	430
5182	4088.4	890.3	430	5183	4140	891.6	430	5184	120	924.5	430	5185	170.6	924.5	430
5186	221.2	924.5	430	5187	271.8	924.5	430	5188	322.3	924.5	430	5189	372.9	924.5	430
5190	423.5	924.5	430	5191	474.1	924.5	430	5192	524.7	924.5	430	5193	575.3	924.5	430
5194	625.8	924.5	430	5195	676.4	924.5	430	5196	727	924.5	430	5197	776.3	924.5	430
5198	825.7	924.5	430	5199	875	924.5	430	5200	924.3	924.5	430	5201	973.7	924.5	430
5202	1023	924.5	430	5203	1072.3	924.5	430	5204	1121.7	924.5	430	5205	1171	924.5	430
5206	1220.3	924.5	430	5207	1269.7	924.5	430	5208	1319	924.5	430	5209	1369.6	924.5	430
5210	1420.2	924.5	430	5211	1470.8	924.5	430	5212	1521.3	924.5	430	5213	1571.9	924.5	430
5214	1622.5	924.5	430	5215	1673.1	924.5	430	5216	1723.7	924.5	430	5217	1774.3	924.5	430
5218	1824.8	924.5	430	5219	1875.4	924.5	430	5220	1926	924.5	430	5221	2089	924.5	430
5222	2139.6	924.5	430	5223	2190.2	924.5	430	5224	2240.8	924.5	430	5225	2291.3	924.5	430
5226	2341.9	924.5	430	5227	2392.5	924.5	430	5228	2443.1	924.5	430	5229	2493.7	924.5	430
5230	2544.3	924.5	430	5231	2594.8	924.5	430	5232	2645.4	924.5	430	5233	2696	924.5	430
5234	2745.3	924.5	430	5235	2794.7	924.5	430	5236	2844	924.5	430	5237	2893.3	924.5	430
5238	2942.7	924.5	430	5239	2992	924.5	430	5240	3041.3	924.5	430	5241	3090.7	924.5	430
5242	3140	924.5	430	5243	3189.3	924.5	430	5244	3238.7	924.5	430	5245	3288	924.5	430
5246	3337.3	924.5	430	5247	3386.7	924.5	430	5248	3436	924.5	430	5249	3485.3	924.5	430
5250	3534.7	924.5	430	5251	3584	924.5	430	5252	3633.3	924.5	430	5253	3682.7	924.5	430
5254	3732	924.5	430	5255	3781.3	924.5	430	5256	3830.7	924.5	430	5257	3880	924.5	430
5258	43.5	937	430	5259	81.8	937	430	5260	120	937	430	5261	170.6	937	430
5262	221.2	937	430	5263	271.8	937	430	5264	322.3	937	430	5265	1964.3	937	430
5266	2002.5	937	430	5267	2012.5	937	430	5268	2050.8	937	430	5269	2089	937	430
5270	2139.6	937	430	5271	2190.2	937	430	5272	2240.8	937	430	5273	2291.3	937	430
5274	2341.9	937	430	5275	2392.5	937	430	5276	2443.1	937	430	5277	2493.7	937	430
5278	2544.3	937	430	5279	2594.8	937	430	5280	2645.4	937	430	5281	2696	937	430
5282	2745.3	937	430	5283	2794.7	937	430	5284	2844	937	430	5285	2893.3	937	430
5286	2942.7	937	430	5287	2992	937	430	5288	3041.3	937	430	5289	3090.7	937	430
5290	3140	937	430	5291	3189.3	937	430	5292	3238.7	937	430	5293	3288	937	430
5294	3337.3	937	430	5295	3386.7	937	430	5296	3436	937	430	5297	3485.3	937	430
5298	3534.7	937	430	5299	3584	937	430	5300	3633.3	937	430	5301	3682.7	937	430
5302	3732	937	430	5303	3781.3	937	430	5304	3830.7	937	430	5305	3880	937	430
5306	3932	937	430	5307	3984	937	430	5308	4036	937	430	5309	4088	937	430
5310	4140	937	430	5311	372.9	937	430	5312	423.5	937	430	5313	474.1	937	430
5314	524.7	937	430	5315	575.3	937	430	5316	625.8	937	430	5317	676.4	937	430
5318	727	937	430	5319	776.3	937	430	5320	825.7	937	430	5321	875	937	430
5322	924.3	937	430	5323	973.7	937	430	5324	1023	937	430	5325	1072.3	937	430
5326	1121.7	937	430	5327	1171	937	430	5328	1220.3	937	430	5329	1269.7	937	430
5330	1319	937	430	5331	1369.6	937	430	5332	1420.2	937	430	5333	1470.8	937	430
5334	1521.3	937	430	5335	1571.9	937	430	5336	1622.5	937	430	5337	1673.1	937	430
5338	1723.7	937	430	5339	1774.3	937	430	5340	1824.8	937	430	5341	1875.4	937	430
5342	1926	937	430	5343	2051.7	397.4	430.1	5344	135	147.7	435	5345	1911	147.7	435
5346	2104	147.7	435	5347	2104	647.2	435	5348	135	647.2	435	5349	1911	647.3	435
5350	727	223.6	436.8	5351	1319	223.6	436.8	5352	2696	223.6	436.8	5353	3288	223.6	436.8
5354	727	571.4	436.8	5355	1319	571.4	436.8	5356	2696	571.4	436.8	5357	3288	571.4	436.8
5358	727	273.1	439.4	5359	1319	273.1	439.4	5360	2696	273.1	439.4	5361	3288	273.1	439.4
5362	727	521.9	439.4	5363	1319	521.9	439.4	5364	2696	521.9	439.4	5365	3288	521.9	439.4
5366	135	-142	440	5367	727	-142	440	5368	1319	-142	440	5369	1911	-142	440
5370	2104	-142	440	5371	2696	-142	440	5372	3288	-142	440	5373	3880	-142	440
5374	135	-89.6	440	5375	727	-89.6	440	5376	1319	-89.6	440	5377	1911	-89.6	440
5378	2104	-89.6	440	5379	2696	-89.6	440	5380	3288	-89.6	440	5381	3880	-89.6	440
5382	135	-37.2	440	5383	727	-37.2	440	5384	1319	-37.2	440	5385	1911	-37.2	440
5386	2104	-37.2	440	5387	2696	-37.2	440	5388	3288	-37.2	440	5389	3880	-37.2	440
5390	135	15.2	440	5391	727	15.2	440	5392	1319	15.2	440	5393	1911	15.2	440
5394	2104	15.2	440	5395	2696	15.2	440	5396	3288	15.2	440	5397	3880	15.2	440
5398	135	67.6	440	5399	727	67.6	440	5400	1319	67.6	440	5401	1911	67.6	440
5402	2104	67.6	440	5403	2696	67.6	440	5404	3288	67.6	440	5405	3880	67.6	440
5406	135	120	440	5407	727	120	440	5408	1319	120	440	5409	1911	120	440
5410	2104	120	440	5411	2696	120	440	5412	3288	120	440	5413	3880	120	440
5414	135	175.5	440	5415	1911	175.5	440	5416	2104	175.5	440	5417	2104	224.8	440
5418	135	224.8	440	5419	1911	224.8	440	5420	2104	274.1	440	5421	135	274.2	440
5422	1911	274.2	440	5423	2104	323.5	440	5424	135	323.5	440	5425	1911	323.5	440
5426	2104	372.8	440	5427	135	372.8	440	5428	1911	372.9	440	5429	2104	422.1	440
5430	135	422.1	440	5431	1911	422.2	440	5432	2104	471.4	440	5433	135	471.5	440
5434	1911	471.5	440	5435	2104	520.8	440	5436	135	520.8	440	5437	1911	520.9	440
5438	2104	570.1	440	5439	135	570.1	440	5440	1911	570.2	440	5441	2104	619.4	440
5442	135	619.5	440	5443	1911	619.6	440	5444	135	675	440	5445	727	675	440
5446	1319	675	440	5447	1911	675	440	5448	2104	675	440	5449	2696	675	440
5450	3288	675	440	5451	3880	675	440	5452	135	727.4	440	5453	727	727.4	440
5454	1319	727.4	440	5455	1911	727.4	440	5456	2104	727.4	440	5457	2696	727.4	440
5458	3288	727.4	440	5459	3880	727.4	440	5460	135	779.8	440	5461	727	779.8	440
5462	1319	779.8	440	5463	1911	779.8	440	5464	2104	779.8	440	5465	2696	779.8	440
5466	3288	779.8	440	5467	3880	779.8	440	5468	135	832.2	440	5469	727	832.2	440
5470	1319	832.2	440	5471	1911	832.2	440	5472	2104	832.2	440	5473	2696	832.2	440
5474	3288	832.2	440	5475	3880	832.2	440	5476	135	884.6	440	5477	727	884.6	440
5478	1319	884.6	440	5479	1911	884.6	440	5480	2104	884.6	440	5481	2696	884.6	440
5482	3288	884.6	440	5483	3880	884.6	440	5484	135	937	440	5485	727	937	440
5486	1319	937	440	5487	1911	937	440	5488	2104	937	440	5489	2696	937	440
5490	3288	937	440	5491	3880	937	440	5492	727	322.8	440.4	5493	1319	322.8	440.4
5494	2696	322.8	440.4	5495	3288	322.8	440.4	5496	727	472.2	440.4	5497	1319	472.2	440.4
5498	2696	472.2	440.4	5499	3288	472.2	440.4	5500	727	372.6	440.8	5501	1319	372.6	440.8
5502	2696	372.6	440.8	5503	3288	372.6	440.8	5504	727	422.4	440.8	5505	1319	422.4	440.8
5506	2696	422.4	440.8	5507	3288	422.4	440.8	5508	3880	472.7	475	5509	3880	422.6	475.2

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
5510	3880	372.6	475.4	5511	3880	322.6	475.7	5512	3880	522.7	475.9	5513	3880	272.6	476.8
5514	3880	572.7	477.5	5515	3880	222.5	478.2	5516	3880	623.1	480.4	5517	3880	171.9	480.9
5518	727	172.6	484	5519	1319	172.6	484	5520	2696	172.6	484	5521	3288	172.6	484
5522	727	622.4	484	5523	1319	622.4	484	5524	2696	622.4	484	5525	3288	622.4	484
5526	727	223	485.4	5527	1319	223	485.4	5528	2696	223	485.4	5529	3288	223	485.4
5530	727	572	485.4	5531	1319	572	485.4	5532	2696	572	485.4	5533	3288	572	485.4
5534	727	273	486.6	5535	1319	273	486.6	5536	2696	273	486.6	5537	3288	273	486.6
5538	727	522	486.6	5539	1319	522	486.6	5540	2696	522	486.6	5541	3288	522	486.6
5542	2104	273.8	487.1	5543	135	273.8	487.1	5544	1911	273.8	487.1	5545	2104	323.4	487.1
5546	135	323.4	487.1	5547	1911	323.4	487.1	5548	2104	372.8	487.1	5549	135	372.8	487.1
5550	1911	372.8	487.1	5551	2104	422.1	487.1	5552	135	422.2	487.1	5553	1911	422.2	487.1
5554	2104	471.6	487.1	5555	135	471.6	487.1	5556	1911	471.6	487.1	5557	2104	521.1	487.1
5558	135	521.2	487.1	5559	1911	521.2	487.1	5560	2104	223.8	487.1	5561	135	223.8	487.1
5562	1911	223.8	487.1	5563	2104	571.1	487.1	5564	135	571.2	487.1	5565	1911	571.2	487.1
5566	2104	172.9	487.1	5567	135	172.9	487.1	5568	1911	172.9	487.1	5569	2104	622	487.1
5570	135	622.1	487.1	5571	1911	622.1	487.1	5572	135	120	487.1	5573	727	120	487.1
5574	1319	120	487.1	5575	1911	120	487.1	5576	2104	120	487.1	5577	2696	120	487.1
5578	3288	120	487.1	5579	3880	120	487.1	5580	135	675	487.1	5581	727	675	487.1
5582	1319	675	487.1	5583	1911	675	487.1	5584	2104	675	487.1	5585	2696	675	487.1
5586	3288	675	487.1	5587	3880	675	487.1	5588	727	322.8	487.3	5589	1319	322.8	487.3
5590	2696	322.8	487.3	5591	3288	322.8	487.3	5592	727	472.2	487.3	5593	1319	472.2	487.3
5594	2696	472.2	487.3	5595	3288	472.2	487.3	5596	727	372.6	487.5	5597	1319	372.6	487.5
5598	2696	372.6	487.5	5599	3288	372.6	487.5	5600	727	422.4	487.5	5601	1319	422.4	487.5
5602	2696	422.4	487.5	5603	3288	422.4	487.5	5604	3880	372.4	520.7	5605	3880	423	520.8
5606	3880	473.6	521.1	5607	3880	321.8	521.6	5608	3880	524	522.7	5609	3880	271.4	523.4
5610	3880	574.3	525.1	5611	3880	220.8	525.7	5612	3880	624.7	528.9	5613	3880	170.4	529.2
5614	727	171.8	533.3	5615	1319	171.8	533.3	5616	2696	171.8	533.3	5617	3288	171.8	533.3
5618	727	623.2	533.3	5619	1319	623.2	533.3	5620	2696	623.2	533.3	5621	3288	623.2	533.3
5622	727	222.7	533.5	5623	1319	222.7	533.5	5624	2696	222.7	533.5	5625	3288	222.7	533.5
5626	727	572.3	533.5	5627	1319	572.3	533.5	5628	2696	572.3	533.5	5629	3288	572.3	533.5
5630	727	273	534	5631	1319	273	534	5632	2696	273	534	5633	3288	273	534
5634	727	522	534	5635	1319	522	534	5636	2696	522	534	5637	3288	522	534
5638	2104	323.3	534.3	5639	135	323.3	534.3	5640	1911	323.3	534.3	5641	2104	372.8	534.3
5642	135	372.8	534.3	5643	1911	372.8	534.3	5644	2104	422.2	534.3	5645	135	422.2	534.3
5646	1911	422.2	534.3	5647	2104	471.6	534.3	5648	135	471.7	534.3	5649	1911	471.7	534.3
5650	2104	273.6	534.3	5651	135	273.6	534.3	5652	1911	273.6	534.3	5653	2104	521.4	534.3
5654	135	521.4	534.3	5655	1911	521.4	534.3	5656	2104	223.3	534.3	5657	135	223.3	534.3
5658	1911	223.3	534.3	5659	2104	571.6	534.3	5660	135	571.7	534.3	5661	1911	571.7	534.3
5662	2104	172.1	534.3	5663	135	172.1	534.3	5664	1911	172.1	534.3	5665	2104	622.8	534.3
5666	135	622.8	534.3	5667	1911	622.9	534.3	5668	727	322.9	534.3	5669	1319	322.9	534.3
5670	2696	322.9	534.3	5671	3288	322.9	534.3	5672	727	472.1	534.3	5673	1319	472.1	534.3
5674	2696	472.1	534.3	5675	3288	472.1	534.3	5676	135	120	534.3	5677	727	120	534.3
5678	1319	120	534.3	5679	1911	120	534.3	5680	2104	120	534.3	5681	2696	120	534.3
5682	3288	120	534.3	5683	3880	120	534.3	5684	135	675	534.3	5685	727	675	534.3
5686	1319	675	534.3	5687	1911	675	534.3	5688	2104	675	534.3	5689	2696	675	534.3
5690	3288	675	534.3	5691	3880	675	534.3	5692	727	372.6	534.4	5693	1319	372.6	534.4
5694	2696	372.6	534.4	5695	3288	372.6	534.4	5696	727	422.4	534.4	5697	1319	422.4	534.4
5698	2696	422.4	534.4	5699	3288	422.4	534.4	5700	3880	372.4	566.9	5701	3880	423.4	566.9
5702	3880	474.2	567.9	5703	3880	321.2	567.9	5704	3880	525.1	569.3	5705	3880	270.5	570.2
5706	3880	575.8	571.9	5707	3880	219.7	572.9	5708	3880	626.1	575.6	5709	3880	169.7	576.9
5710	727	222.6	581	5711	1319	222.6	581	5712	2696	222.6	581	5713	3288	222.6	581
5714	727	572.4	581	5715	1319	572.4	581	5716	2696	572.4	581	5717	3288	572.4	581
5718	727	171.6	581	5719	1319	171.6	581	5720	2696	171.6	581	5721	3288	171.6	581
5722	727	623.4	581	5723	1319	623.4	581	5724	2696	623.4	581	5725	3288	623.4	581
5726	727	273	581.1	5727	1319	273	581.1	5728	2696	273	581.1	5729	3288	273	581.1
5730	727	522	581.1	5731	1319	522	581.1	5732	2696	522	581.1	5733	3288	522	581.1
5734	2104	372.8	581.2	5735	135	372.8	581.2	5736	1911	372.8	581.2	5737	2104	422.2	581.2
5738	135	422.2	581.2	5739	1911	422.2	581.2	5740	2104	323.3	581.2	5741	135	323.3	581.2
5742	1911	323.3	581.2	5743	2104	471.7	581.2	5744	135	471.7	581.2	5745	1911	471.7	581.2
5746	727	322.9	581.2	5747	1319	322.9	581.2	5748	2696	322.9	581.2	5749	3288	322.9	581.2
5750	727	472.1	581.2	5751	1319	472.1	581.2	5752	2696	472.1	581.2	5753	3288	472.1	581.2
5754	2104	273.5	581.2	5755	135	273.5	581.2	5756	1911	273.5	581.2	5757	2104	521.4	581.2
5758	135	521.5	581.2	5759	1911	521.5	581.2	5760	2104	223.1	581.3	5761	135	223.1	581.3
5762	1911	223.1	581.3	5763	2104	571.8	581.3	5764	135	571.8	581.3	5765	1911	571.9	581.3
5766	727	372.7	581.3	5767	1319	372.7	581.3	5768	2696	372.7	581.3	5769	3288	372.7	581.3
5770	727	422.3	581.3	5771	1319	422.3	581.3	5772	2696	422.3	581.3	5773	3288	422.3	581.3
5774	2104	171.9	581.3	5775	135	171.9	581.3	5776	1911	171.9	581.3	5777	2104	623.1	581.3
5778	135	623.1	581.3	5779	1911	623.1	581.3	5780	135	120	581.4	5781	727	120	581.4
5782	1319	120	581.4	5783	1911	120	581.4	5784	2104	120	581.4	5785	2696	120	581.4
5786	3288	120	581.4	5787	3880	120	581.4	5788	135	675	581.4	5789	727	675	581.4
5790	1319	675	581.4	5791	1911	675	581.4	5792	2104	675	581.4	5793	2696	675	581.4
5794	3288	675	581.4	5795	3880	675	581.4	5796	3880	423.7	613.4	5797	3880	372.4	613.5
5798	3880	474.8	614.2	5799	3880	320.9	614.7	5800	3880	525.9	615.8	5801	3880	270	617.1
5802	3880	576.9	618.7	5803	3880	219.1	620.1	5804	3880	627.3	622.9	5805	3880	168.9	624.1
5806	2104	372.8	627.7	5807	135	372.8	627.7	5808	1911	372.8	627.7	5809	2104	422.2	627.7
5810	135	422.2	627.7	5811	1911	422.2	627.7	5812	727	273.1	627.7	5813	1319	273.1	627.7
5814	2696	273.1	627.7	5815	3288	273.1	627.7	5816	727	521.9	627.7	5817	1319	521.9	627.7
5818	2696	521.9	627.7	5819	3288	521.9	627.7	5820	727	323	627.7	5821	1319	323	627.7
5822	2696	323	627.7	5823	3288	323	627.7	5824	727	472	627.7	5825	1319	472	627.7
5826	2696	472	627.7	5827	3288	472	627.7	5828	2104	323.3	627.7	5829	135	323.3	627.7
5830	1911	323.3	627.7	5831	2104	471.7	627.7	5832	135	471.7	627.7	5833	1911	471.7	627.7
5834	727	372.7	627.7	5835	1319	372.7	627.7	5836	2696	372.7	627.7	5837	3288	372.7	627.7
5838	727	422.3	627.7	5839	1319	422.3	627.7	5840	2696	422.3	627.7	5841	3288	422.3	627.7
5842	2104	273.5	627.7	5843	135	273.5	627.7	5844	1911	273.5	627.7	5845	2104	521.5	627.7
5846	135	521.5	627.7	5847	1911	521.5	627.7	5848	727	222.7	627.8	5849	1319	222.7	627.8
5850	2696	222.7	627.8	5851	3288	222.7	627.8	5852	727	572.3	627.8	5853	1319	572.3	627.8
5854	2696	572.3	627.8	5855	3288	572.3	627.8	5856	2104	223.1	627.8	5857	135	223.1	627.8
5858	1911	223.1	627.8	5859	2104	571.9	627.8	5860	135	571.9	627.8	5861	1911	571.9	627.8
5862	727	171.6	628	5863	1319	171.6	628	5864	2696	171.6	628	5865	3288	171.6	628
5866	727	623.4	628	5867	1319	623.4	628	5868	2696	623.4	628	5869	3288	623.4	628
5870	2104	171.9	628.1	5871	135	171.9	628.1	5872	1911	171.9	628.1	5873	2104	623.1	628.1
5874	135	623.1	628.1	5875	1911	623.1	628.1	5876	135	120	628.6	5877	727	120	628.6
5878	1319	120	628.6	5879	1911	120	628.6	5880	2104	120	628.6	5881	2696	120	628.6
5882	3288	120	628.6	5883	3880	120	628.6	5884	135	675	628.6	5885	727	675	628.6
5886	1319	675	628.6	5887	1911	675	628.6	5888	2104	675	628.6	5889	2696	675	628.6
5890	3288	675	628.6	5891	3880	675	628.6	5892	3880	423.9	660	5893	3880	475.1	660.4
5894	3880	372.4	660.5	5895	3880	321.2	661.6	5896	3880	525.8	662.3	5897	3880	269.9	663.7

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
5898	3880	577	665.5	5899	3880	218.9	667	5900	3880	628.3	670.6	5901	3880	168.3	671.4
5902	727	222.7	672.7	5903	1319	222.7	672.7	5904	2696	222.7	672.7	5905	3288	222.7	672.7
5906	727	572.3	672.7	5907	1319	572.3	672.7	5908	2696	572.3	672.7	5909	3288	572.3	672.7
5910	2104	223	672.7	5911	135	223	672.7	5912	1911	223	672.7	5913	2104	572	672.7
5914	135	572	672.7	5915	1911	572	672.7	5916	2104	372.8	672.8	5917	135	372.8	672.8
5918	1911	372.8	672.8	5919	2104	422.2	672.8	5920	135	422.2	672.8	5921	1911	422.2	672.8
5922	727	372.7	672.8	5923	1319	372.7	672.8	5924	2696	372.7	672.8	5925	3288	372.7	672.8
5926	727	422.3	672.8	5927	1319	422.3	672.8	5928	2696	422.3	672.8	5929	3288	422.3	672.8
5930	727	323.1	672.8	5931	1319	323.1	672.8	5932	2696	323.1	672.8	5933	3288	323.1	672.8
5934	727	471.9	672.8	5935	1319	471.9	672.8	5936	2696	471.9	672.8	5937	3288	471.9	672.8
5938	2104	323.3	672.8	5939	135	323.3	672.8	5940	1911	323.3	672.8	5941	2104	471.7	672.8
5942	135	471.7	672.8	5943	1911	471.7	672.8	5944	727	273.2	672.9	5945	1319	273.2	672.9
5946	2696	273.2	672.9	5947	3288	273.2	672.9	5948	727	521.8	672.9	5949	1319	521.8	672.9
5950	2696	521.8	672.9	5951	3288	521.8	672.9	5952	2104	273.5	672.9	5953	135	273.5	672.9
5954	1911	273.5	672.9	5955	2104	521.5	672.9	5956	135	521.5	672.9	5957	1911	521.5	672.9
5958	727	171.5	673.5	5959	1319	171.5	673.5	5960	2696	171.5	673.5	5961	3288	171.5	673.5
5962	727	623.5	673.5	5963	1319	623.5	673.5	5964	2696	623.5	673.5	5965	3288	623.5	673.5
5966	2104	171.7	673.6	5967	135	171.7	673.6	5968	1911	171.7	673.6	5969	2104	623.3	673.6
5970	135	623.3	673.6	5971	1911	623.3	673.6	5972	135	120	675.7	5973	727	120	675.7
5974	1319	120	675.7	5975	1911	120	675.7	5976	2104	120	675.7	5977	2696	120	675.7
5978	3288	120	675.7	5979	3880	120	675.7	5980	135	675	675.7	5981	727	675	675.7
5982	1319	675	675.7	5983	1911	675	675.7	5984	2104	675	675.7	5985	2696	675	675.7
5986	3288	675	675.7	5987	3880	675	675.7	5988	3880	423.5	705.3	5989	3880	474.3	705.4
5990	3880	372.5	706.3	5991	3880	524.9	707	5992	3880	321.5	707.5	5993	3880	270.6	709
5994	3880	575.9	710.4	5995	3880	219.8	712.3	5996	2104	323.3	714.7	5997	135	323.3	714.7
5998	1911	323.3	714.7	5999	2104	273.5	714.8	6000	135	273.5	714.8	6001	1911	273.5	714.8
6002	2104	372.8	715.1	6003	135	372.8	715.1	6004	1911	372.8	715.1	6005	2104	422.2	715.1
6006	135	422.2	715.1	6007	1911	422.2	715.1	6008	727	372.8	715.1	6009	1319	372.8	715.1
6010	2696	372.8	715.1	6011	3288	372.8	715.1	6012	727	422.2	715.1	6013	1319	422.2	715.1
6014	2696	422.2	715.1	6015	3288	422.2	715.1	6016	727	323.2	715.2	6017	1319	323.2	715.2
6018	2696	323.2	715.2	6019	3288	323.2	715.2	6020	2104	471.7	715.2	6021	135	471.7	715.2
6022	1911	471.7	715.2	6023	727	471.8	715.2	6024	1319	471.8	715.2	6025	2696	471.8	715.2
6026	3288	471.8	715.2	6027	727	273.4	715.4	6028	1319	273.4	715.4	6029	2696	273.4	715.4
6030	3288	273.4	715.4	6031	727	521.6	715.4	6032	1319	521.6	715.4	6033	2696	521.6	715.4
6034	3288	521.6	715.4	6035	2104	521.4	715.4	6036	135	521.4	715.4	6037	1911	521.4	715.4
6038	727	222.9	715.4	6039	1319	222.9	715.4	6040	2696	222.9	715.4	6041	3288	222.9	715.4
6042	727	572.1	715.4	6043	1319	572.1	715.4	6044	2696	572.1	715.4	6045	3288	572.1	715.4
6046	2104	223.1	715.4	6047	135	223.1	715.4	6048	1911	223.1	715.4	6049	2104	571.9	715.4
6050	135	571.9	715.4	6051	1911	571.9	715.4	6052	3880	627.4	716.1	6053	3880	169.4	717.1
6054	727	171.9	717.7	6055	1319	171.9	717.7	6056	2696	171.9	717.7	6057	3288	171.9	717.7
6058	727	623.1	717.7	6059	1319	623.1	717.7	6060	2696	623.1	717.7	6061	3288	623.1	717.7
6062	2104	172	717.8	6063	135	172	717.8	6064	1911	172	717.8	6065	2104	623	717.8
6066	135	623	717.8	6067	1911	623	717.8	6068	135	120	722.9	6069	727	120	722.9
6070	1319	120	722.9	6071	1911	120	722.9	6072	2104	120	722.9	6073	2696	120	722.9
6074	3288	120	722.9	6075	3880	120	722.9	6076	135	675	722.9	6077	727	675	722.9
6078	1319	675	722.9	6079	1911	675	722.9	6080	2104	675	722.9	6081	2696	675	722.9
6082	3288	675	722.9	6083	3880	675	722.9	6084	3880	422.9	748.7	6085	3880	473.1	748.7
6086	3880	372.7	749	6087	3880	322.5	749.3	6088	3880	523.1	749.4	6089	3880	272.3	750.8
6090	3880	573.6	752	6091	3880	222.1	752.9	6092	727	521.4	753.5	6093	1319	521.4	753.5
6094	2696	521.4	753.5	6095	3288	521.4	753.5	6096	2104	273.7	753.5	6097	135	273.7	753.5
6098	1911	273.7	753.5	6099	727	273.6	753.6	6100	1319	273.6	753.6	6101	2696	273.6	753.6
6102	3288	273.6	753.6	6103	2104	521.3	753.6	6104	135	521.3	753.6	6105	1911	521.3	753.6
6106	727	372.8	753.9	6107	1319	372.8	753.9	6108	2696	372.8	753.9	6109	3288	372.8	753.9
6110	2104	372.8	753.9	6111	135	372.8	753.9	6112	1911	372.8	753.9	6113	2104	422.2	753.9
6114	135	422.2	753.9	6115	1911	422.2	753.9	6116	727	422.2	753.9	6117	1319	422.2	753.9
6118	2696	422.2	753.9	6119	3288	422.2	753.9	6120	727	323.3	754	6121	1319	323.3	754
6122	2696	323.3	754	6123	3288	323.3	754	6124	2104	323.4	754	6125	135	323.4	754
6126	1911	323.4	754	6127	2104	471.6	754	6128	135	471.6	754	6129	1911	471.6	754
6130	727	471.7	754	6131	1319	471.7	754	6132	2696	471.7	754	6133	3288	471.7	754
6134	727	223.6	754.4	6135	1319	223.6	754.4	6136	2696	223.6	754.4	6137	3288	223.6	754.4
6138	2104	571.3	754.4	6139	135	571.3	754.4	6140	1911	571.3	754.4	6141	727	571.4	754.6
6142	1319	571.4	754.6	6143	2696	571.4	754.6	6144	3288	571.4	754.6	6145	2104	223.7	754.6
6146	135	223.7	754.6	6147	1911	223.7	754.6	6148	3880	624.9	757.7	6149	3880	171.5	758.4
6150	727	172.9	758.6	6151	1319	172.9	758.6	6152	2696	172.9	758.6	6153	3288	172.9	758.6
6154	727	622.1	758.6	6155	1319	622.1	758.6	6156	2696	622.1	758.6	6157	3288	622.1	758.6
6158	2104	172.9	758.6	6159	135	172.9	758.6	6160	1911	172.9	758.6	6161	2104	622.1	758.6
6162	135	622.1	758.6	6163	1911	622.1	758.6	6164	135	-20	770	6165	727	-20	770
6166	1319	-20	770	6167	1911	-20	770	6168	2104	-20	770	6169	2696	-20	770
6170	3288	-20	770	6171	3880	-20	770	6172	135	26.7	770	6173	727	26.7	770
6174	1319	26.7	770	6175	1911	26.7	770	6176	2104	26.7	770	6177	2696	26.7	770
6178	3288	26.7	770	6179	3880	26.7	770	6180	135	73.3	770	6181	727	73.3	770
6182	1319	73.3	770	6183	1911	73.3	770	6184	2104	73.3	770	6185	2696	73.3	770
6186	3288	73.3	770	6187	3880	73.3	770	6188	135	120	770	6189	727	120	770
6190	1319	120	770	6191	1911	120	770	6192	2104	120	770	6193	2696	120	770
6194	3288	120	770	6195	3880	120	770	6196	135	675	770	6197	727	675	770
6198	1319	675	770	6199	1911	675	770	6200	2104	675	770	6201	2696	675	770
6202	3288	675	770	6203	3880	675	770	6204	135	721.7	770	6205	727	721.7	770
6206	1319	721.7	770	6207	1911	721.7	770	6208	2104	721.7	770	6209	2696	721.7	770
6210	3288	721.7	770	6211	3880	721.7	770	6212	135	768.3	770	6213	727	768.3	770
6214	1319	768.3	770	6215	1911	768.3	770	6216	2104	768.3	770	6217	2696	768.3	770
6218	3288	768.3	770	6219	3880	768.3	770	6220	135	815	770	6221	727	815	770
6222	1319	815	770	6223	1911	815	770	6224	2104	815	770	6225	2696	815	770
6226	3288	815	770	6227	3880	815	770	6228	43.5	-20	780	6229	89.3	-20	780
6230	135	-20	780	6231	184.3	-20	780	6232	233.7	-20	780	6233	283	-20	780
6234	332.3	-20	780	6235	381.7	-20	780	6236	431	-20	780	6237	480.3	-20	780
6238	529.7	-20	780	6239	579	-20	780	6240	628.3	-20	780	6241	677.7	-20	780
6242	727	-20	780	6243	776.3	-20	780	6244	825.7	-20	780	6245	875	-20	780
6246	924.3	-20	780	6247	973.7	-20	780	6248	1023	-20	780	6249	1072.3	-20	780
6250	1121.7	-20	780	6251	1171	-20	780	6252	1220.3	-20	780	6253	1269.7	-20	780
6254	1319	-20	780	6255	1368.3	-20	780	6256	1417.7	-20	780	6257	1467	-20	780
6258	1516.3	-20	780	6259	1565.7	-20	780	6260	1615	-20	780	6261	1664.3	-20	780
6262	1713.7	-20	780	6263	1763	-20	780	6264	1812.3	-20	780	6265	1861.7	-20	780
6266	1911	-20	780	6267	1956.8	-20	780	6268	2002.5	-20	780	6269	2012.5	-20	780
6270	2058.3	-20	780	6271	2104	-20	780	6272	2153.3	-20	780	6273	2202.7	-20	780
6274	2252	-20	780	6275	2301.3	-20	780	6276	2350.7	-20	780	6277	2400	-20	780
6278	2449.3	-20	780	6279	2498.7	-20	780	6280	2548	-20	780	6281	2597.3	-20	780
6282	2646.7	-20	780	6283	2696	-20	780	6284	2745.3	-20	780	6285	2794.7	-20	780

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
6286	2844	-20	780	6287	2893.3	-20	780	6288	2942.7	-20	780	6289	2992	-20	780
6290	3041.3	-20	780	6291	3090.7	-20	780	6292	3140	-20	780	6293	3189.3	-20	780
6294	3238.7	-20	780	6295	3288	-20	780	6296	3338.6	-20	780	6297	3389.2	-20	780
6298	3439.8	-20	780	6299	3490.3	-20	780	6300	3540.9	-20	780	6301	3591.5	-20	780
6302	3642.1	-20	780	6303	3692.7	-20	780	6304	3743.3	-20	780	6305	3793.8	-20	780
6306	3844.4	-20	780	6307	3895	-20	780	6308	135	26.7	780	6309	727	26.7	780
6310	1319	26.7	780	6311	1911	26.7	780	6312	2104	26.7	780	6313	2696	26.7	780
6314	3288	26.7	780	6315	3895	26.7	780	6316	184.3	27.2	780	6317	677.7	27.2	780
6318	776.3	27.2	780	6319	1269.7	27.2	780	6320	1368.3	27.2	780	6321	1861.7	27.2	780
6322	2153.3	27.2	780	6323	2646.7	27.2	780	6324	2745.3	27.2	780	6325	3238.7	27.2	780
6326	3338.6	27.2	780	6327	3844.4	27.2	780	6328	233.7	27.4	780	6329	628.3	27.4	780
6330	825.7	27.4	780	6331	1220.3	27.4	780	6332	1417.7	27.4	780	6333	1812.3	27.4	780
6334	2202.7	27.4	780	6335	2597.3	27.4	780	6336	2794.7	27.4	780	6337	3189.3	27.4	780
6338	3389.2	27.4	780	6339	3793.8	27.4	780	6340	283	27.5	780	6341	579	27.5	780
6342	875	27.5	780	6343	1171	27.5	780	6344	1467	27.5	780	6345	1763	27.5	780
6346	2252	27.5	780	6347	2548	27.5	780	6348	2844	27.5	780	6349	3140	27.5	780
6350	3439.8	27.5	780	6351	3743.3	27.5	780	6352	332.3	27.6	780	6353	529.7	27.6	780
6354	924.3	27.6	780	6355	1121.7	27.6	780	6356	1516.3	27.6	780	6357	1713.7	27.6	780
6358	2301.3	27.6	780	6359	2498.7	27.6	780	6360	2893.3	27.6	780	6361	3090.7	27.6	780
6362	3490.3	27.6	780	6363	3692.7	27.6	780	6364	381.7	27.6	780	6365	480.3	27.6	780
6366	973.7	27.6	780	6367	1072.3	27.6	780	6368	1565.7	27.6	780	6369	1664.3	27.6	780
6370	2350.7	27.6	780	6371	2449.3	27.6	780	6372	2942.7	27.6	780	6373	3041.3	27.6	780
6374	3540.9	27.6	780	6375	3642.1	27.6	780	6376	431	27.6	780	6377	1023	27.6	780
6378	1615	27.6	780	6379	2400	27.6	780	6380	2992	27.6	780	6381	3591.5	27.6	780
6382	89.3	28	780	6383	1956.8	28	780	6384	2058.3	28	780	6385	43.5	29.1	780
6386	2002.5	29.1	780	6387	2012.5	29.1	780	6388	135	73.3	780	6389	727	73.3	780
6390	1319	73.3	780	6391	1911	73.3	780	6392	2104	73.3	780	6393	2696	73.3	780
6394	3288	73.3	780	6395	3895	73.3	780	6396	184.3	74.8	780	6397	677.7	74.8	780
6398	776.3	74.8	780	6399	1269.7	74.8	780	6400	1368.3	74.8	780	6401	1861.7	74.8	780
6402	2153.3	74.8	780	6403	2646.7	74.8	780	6404	2745.3	74.8	780	6405	3238.7	74.8	780
6406	3338.6	74.8	780	6407	3844.4	74.8	780	6408	233.7	75.5	780	6409	628.3	75.5	780
6410	825.7	75.5	780	6411	1220.3	75.5	780	6412	1417.7	75.5	780	6413	1812.3	75.5	780
6414	2202.7	75.5	780	6415	2597.3	75.5	780	6416	2794.7	75.5	780	6417	3189.3	75.5	780
6418	3389.2	75.5	780	6419	3793.8	75.5	780	6420	283	75.8	780	6421	579	75.8	780
6422	875	75.8	780	6423	1171	75.8	780	6424	1467	75.8	780	6425	1763	75.8	780
6426	2252	75.8	780	6427	2548	75.8	780	6428	2844	75.8	780	6429	3140	75.8	780
6430	3439.8	75.8	780	6431	3743.3	75.8	780	6432	332.3	75.8	780	6433	529.7	75.8	780
6434	924.3	75.8	780	6435	1121.7	75.8	780	6436	1516.3	75.8	780	6437	1713.7	75.8	780
6438	2301.3	75.8	780	6439	2498.7	75.8	780	6440	2893.3	75.8	780	6441	3090.7	75.8	780
6442	3490.3	75.8	780	6443	3692.7	75.8	780	6444	381.7	75.8	780	6445	480.3	75.8	780
6446	973.7	75.8	780	6447	1072.3	75.8	780	6448	1565.7	75.8	780	6449	1664.3	75.8	780
6450	2350.7	75.8	780	6451	2449.3	75.8	780	6452	2942.7	75.8	780	6453	3041.3	75.8	780
6454	3540.9	75.8	780	6455	3642.1	75.8	780	6456	431	75.8	780	6457	1023	75.8	780
6458	1615	75.8	780	6459	2400	75.8	780	6460	2992	75.8	780	6461	3591.5	75.8	780
6462	89.3	76.1	780	6463	1956.8	76.1	780	6464	2058.3	76.1	780	6465	43.5	78.2	780
6466	2002.5	78.2	780	6467	2012.5	78.2	780	6468	135	120	780	6469	727	120	780
6470	1319	120	780	6471	1911	120	780	6472	2104	120	780	6473	2696	120	780
6474	3288	120	780	6475	3895	120	780	6476	184.3	123.7	780	6477	677.7	123.7	780
6478	776.3	123.7	780	6479	1269.7	123.7	780	6480	1368.3	123.7	780	6481	1861.7	123.7	780
6482	2153.3	123.7	780	6483	2646.7	123.7	780	6484	2745.3	123.7	780	6485	3238.7	123.7	780
6486	3338.6	123.7	780	6487	3844.4	123.7	780	6488	89.3	124.7	780	6489	1956.8	124.7	780
6490	2058.3	124.7	780	6491	233.7	124.8	780	6492	628.3	124.8	780	6493	825.7	124.8	780
6494	1220.3	124.8	780	6495	1417.7	124.8	780	6496	1812.3	124.8	780	6497	2202.7	124.8	780
6498	2597.3	124.8	780	6499	2794.7	124.8	780	6500	3189.3	124.8	780	6501	3389.2	124.8	780
6502	3793.8	124.8	780	6503	283	125.1	780	6504	579	125.1	780	6505	875	125.1	780
6506	1171	125.1	780	6507	1467	125.1	780	6508	1763	125.1	780	6509	2252	125.1	780
6510	2548	125.1	780	6511	2844	125.1	780	6512	3140	125.1	780	6513	3439.8	125.1	780
6514	3743.3	125.1	780	6515	332.3	125.2	780	6516	529.7	125.2	780	6517	924.3	125.2	780
6518	1121.7	125.2	780	6519	1516.3	125.2	780	6520	1713.7	125.2	780	6521	2301.3	125.2	780
6522	2498.7	125.2	780	6523	2893.3	125.2	780	6524	3090.7	125.2	780	6525	3490.3	125.2	780
6526	3692.7	125.2	780	6527	381.7	125.2	780	6528	480.3	125.2	780	6529	973.7	125.2	780
6530	1072.3	125.2	780	6531	1565.7	125.2	780	6532	1664.3	125.2	780	6533	2350.7	125.2	780
6534	2449.3	125.2	780	6535	2942.7	125.2	780	6536	3041.3	125.2	780	6537	3540.9	125.2	780
6538	3642.1	125.2	780	6539	431	125.2	780	6540	1023	125.2	780	6541	1615	125.2	780
6542	2400	125.2	780	6543	2992	125.2	780	6544	3591.5	125.2	780	6545	43.5	127.4	780
6546	2002.5	127.4	780	6547	2012.5	127.4	780	6548	89.3	175.4	780	6549	1956.8	175.4	780
6550	2058.3	175.4	780	6551	135	175.5	780	6552	184.3	175.5	780	6553	233.7	175.5	780
6554	283	175.5	780	6555	332.3	175.5	780	6556	381.7	175.5	780	6557	431	175.5	780
6558	480.3	175.5	780	6559	529.7	175.5	780	6560	579	175.5	780	6561	628.3	175.5	780
6562	677.7	175.5	780	6563	727	175.5	780	6564	776.3	175.5	780	6565	825.7	175.5	780
6566	875	175.5	780	6567	924.3	175.5	780	6568	973.7	175.5	780	6569	1023	175.5	780
6570	1072.3	175.5	780	6571	1121.7	175.5	780	6572	1171	175.5	780	6573	1220.3	175.5	780
6574	1269.7	175.5	780	6575	1319	175.5	780	6576	1368.3	175.5	780	6577	1417.7	175.5	780
6578	1467	175.5	780	6579	1516.3	175.5	780	6580	1565.7	175.5	780	6581	1615	175.5	780
6582	1664.3	175.5	780	6583	1713.7	175.5	780	6584	1763	175.5	780	6585	1812.3	175.5	780
6586	1861.7	175.5	780	6587	1911	175.5	780	6588	2104	175.5	780	6589	2153.3	175.5	780
6590	2202.7	175.5	780	6591	2252	175.5	780	6592	2301.3	175.5	780	6593	2350.7	175.5	780
6594	2400	175.5	780	6595	2449.3	175.5	780	6596	2498.7	175.5	780	6597	2548	175.5	780
6598	2597.3	175.5	780	6599	2646.7	175.5	780	6600	2696	175.5	780	6601	2745.3	175.5	780
6602	2794.7	175.5	780	6603	2844	175.5	780	6604	2893.3	175.5	780	6605	2942.7	175.5	780
6606	2992	175.5	780	6607	3041.3	175.5	780	6608	3090.7	175.5	780	6609	3140	175.5	780
6610	3189.3	175.5	780	6611	3238.7	175.5	780	6612	3288	175.5	780	6613	3338.6	175.5	780
6614	3389.2	175.5	780	6615	3439.8	175.5	780	6616	3490.3	175.5	780	6617	3540.9	175.5	780
6618	3591.5	175.5	780	6619	3642.1	175.5	780	6620	3692.7	175.5	780	6621	3743.3	175.5	780
6622	3793.8	175.5	780	6623	3844.4	175.5	780	6624	3895	175.5	780	6625	43.5	176.5	780
6626	2002.5	176.5	780	6627	2012.5	176.5	780	6628	135	224.8	780	6629	184.3	224.8	780
6630	233.7	224.8	780	6631	283	224.8	780	6632	332.3	224.8	780	6633	381.7	224.8	780
6634	431	224.8	780	6635	480.3	224.8	780	6636	529.7	224.8	780	6637	579	224.8	780
6638	628.3	224.8	780	6639	677.7	224.8	780	6640	727	224.8	780	6641	776.3	224.8	780
6642	825.7	224.8	780	6643	875	224.8	780	6644	924.3	224.8	780	6645	973.7	224.8	780
6646	1023	224.8	780	6647	1072.3	224.8	780	6648	1121.7	224.8	780	6649	1171	224.8	780
6650	1220.3	224.8	780	6651	1269.7	224.8	780	6652	1319	224.8	780	6653	1368.3	224.8	780
6654	1417.7	224.8	780	6655	1467	224.8	780	6656	1516.3	224.8	780	6657	1565.7	224.8	780
6658	1615	224.8	780	6659	1664.3	224.8	780	6660	1713.7	224.8	780	6661	1763	224.8	780
6662	1812.3	224.8	780	6663	1861.7	224.8	780	6664	1911	224.8	780	6665	2104	224.8	780
6666	2153.3	224.8	780	6667	2202.7	224.8	780	6668	2252	224.8	780	6669	2301.3	224.8	780
6670	2350.7	224.8	780	6671	2400	224.8	780	6672	2449.3	224.8	780	6673	2498.7	224.8	780

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
6674	2548	224.8	780	6675	2597.3	224.8	780	6676	2646.7	224.8	780	6677	2696	224.8	780
6678	2745.3	224.8	780	6679	2794.7	224.8	780	6680	2844	224.8	780	6681	2893.3	224.8	780
6682	2942.7	224.8	780	6683	2992	224.8	780	6684	3041.3	224.8	780	6685	3090.7	224.8	780
6686	3140	224.8	780	6687	3189.3	224.8	780	6688	3238.7	224.8	780	6689	3288	224.8	780
6690	3338.6	224.8	780	6691	3389.2	224.8	780	6692	3439.8	224.8	780	6693	3490.3	224.8	780
6694	3540.9	224.8	780	6695	3591.5	224.8	780	6696	3642.1	224.8	780	6697	3692.7	224.8	780
6698	3743.3	224.8	780	6699	3793.8	224.8	780	6700	3844.4	224.8	780	6701	3895	224.8	780
6702	89.3	225.1	780	6703	1956.8	225.1	780	6704	2058.3	225.1	780	6705	43.5	225.6	780
6706	2002.5	225.6	780	6707	2012.5	225.6	780	6708	135	274.2	780	6709	184.3	274.2	780
6710	233.7	274.2	780	6711	283	274.2	780	6712	332.3	274.2	780	6713	381.7	274.2	780
6714	431	274.2	780	6715	480.3	274.2	780	6716	529.7	274.2	780	6717	579	274.2	780
6718	628.3	274.2	780	6719	677.7	274.2	780	6720	727	274.2	780	6721	776.3	274.2	780
6722	825.7	274.2	780	6723	875	274.2	780	6724	924.3	274.2	780	6725	973.7	274.2	780
6726	1023	274.2	780	6727	1072.3	274.2	780	6728	1121.7	274.2	780	6729	1171	274.2	780
6730	1220.3	274.2	780	6731	1269.7	274.2	780	6732	1319	274.2	780	6733	1368.3	274.2	780
6734	1417.7	274.2	780	6735	1467	274.2	780	6736	1516.3	274.2	780	6737	1565.7	274.2	780
6738	1615	274.2	780	6739	1664.3	274.2	780	6740	1713.7	274.2	780	6741	1763	274.2	780
6742	1812.3	274.2	780	6743	1861.7	274.2	780	6744	1911	274.2	780	6745	2104	274.2	780
6746	2153.3	274.2	780	6747	2202.7	274.2	780	6748	2252	274.2	780	6749	2301.3	274.2	780
6750	2350.7	274.2	780	6751	2400	274.2	780	6752	2449.3	274.2	780	6753	2498.7	274.2	780
6754	2548	274.2	780	6755	2597.3	274.2	780	6756	2646.7	274.2	780	6757	2696	274.2	780
6758	2745.3	274.2	780	6759	2794.7	274.2	780	6760	2844	274.2	780	6761	2893.3	274.2	780
6762	2942.7	274.2	780	6763	2992	274.2	780	6764	3041.3	274.2	780	6765	3090.7	274.2	780
6766	3140	274.2	780	6767	3189.3	274.2	780	6768	3238.7	274.2	780	6769	3288	274.2	780
6770	3338.6	274.2	780	6771	3389.2	274.2	780	6772	3439.8	274.2	780	6773	3490.3	274.2	780
6774	3540.9	274.2	780	6775	3591.5	274.2	780	6776	3642.1	274.2	780	6777	3692.7	274.2	780
6778	3743.3	274.2	780	6779	3793.8	274.2	780	6780	3844.4	274.2	780	6781	3895	274.2	780
6782	89.3	274.4	780	6783	1956.8	274.4	780	6784	2058.3	274.4	780	6785	43.5	274.7	780
6786	2002.5	274.7	780	6787	2012.5	274.7	780	6788	135	323.5	780	6789	184.3	323.5	780
6790	233.7	323.5	780	6791	283	323.5	780	6792	332.3	323.5	780	6793	381.7	323.5	780
6794	431	323.5	780	6795	480.3	323.5	780	6796	529.7	323.5	780	6797	579	323.5	780
6798	628.3	323.5	780	6799	677.7	323.5	780	6800	727	323.5	780	6801	776.3	323.5	780
6802	825.7	323.5	780	6803	875	323.5	780	6804	924.3	323.5	780	6805	973.7	323.5	780
6806	1023	323.5	780	6807	1072.3	323.5	780	6808	1121.7	323.5	780	6809	1171	323.5	780
6810	1220.3	323.5	780	6811	1269.7	323.5	780	6812	1319	323.5	780	6813	1368.3	323.5	780
6814	1417.7	323.5	780	6815	1467	323.5	780	6816	1516.3	323.5	780	6817	1565.7	323.5	780
6818	1615	323.5	780	6819	1664.3	323.5	780	6820	1713.7	323.5	780	6821	1763	323.5	780
6822	1812.3	323.5	780	6823	1861.7	323.5	780	6824	1911	323.5	780	6825	2104	323.5	780
6826	2153.3	323.5	780	6827	2202.7	323.5	780	6828	2252	323.5	780	6829	2301.3	323.5	780
6830	2350.7	323.5	780	6831	2400	323.5	780	6832	2449.3	323.5	780	6833	2498.7	323.5	780
6834	2548	323.5	780	6835	2597.3	323.5	780	6836	2646.7	323.5	780	6837	2696	323.5	780
6838	2745.3	323.5	780	6839	2794.7	323.5	780	6840	2844	323.5	780	6841	2893.3	323.5	780
6842	2942.7	323.5	780	6843	2992	323.5	780	6844	3041.3	323.5	780	6845	3090.7	323.5	780
6846	3140	323.5	780	6847	3189.3	323.5	780	6848	3238.7	323.5	780	6849	3288	323.5	780
6850	3338.6	323.5	780	6851	3389.2	323.5	780	6852	3439.8	323.5	780	6853	3490.3	323.5	780
6854	3540.9	323.5	780	6855	3591.5	323.5	780	6856	3642.1	323.5	780	6857	3692.7	323.5	780
6858	3743.3	323.5	780	6859	3793.8	323.5	780	6860	3844.4	323.5	780	6861	3895	323.5	780
6862	89.3	323.7	780	6863	1956.8	323.7	780	6864	2058.3	323.7	780	6865	43.5	323.8	780
6866	2002.5	323.8	780	6867	2012.5	323.8	780	6868	135	372.8	780	6869	184.3	372.8	780
6870	233.7	372.8	780	6871	283	372.8	780	6872	332.3	372.8	780	6873	381.7	372.8	780
6874	431	372.8	780	6875	480.3	372.8	780	6876	529.7	372.8	780	6877	579	372.8	780
6878	628.3	372.8	780	6879	677.7	372.8	780	6880	727	372.8	780	6881	776.3	372.8	780
6882	825.7	372.8	780	6883	875	372.8	780	6884	924.3	372.8	780	6885	973.7	372.8	780
6886	1023	372.8	780	6887	1072.3	372.8	780	6888	1121.7	372.8	780	6889	1171	372.8	780
6890	1220.3	372.8	780	6891	1269.7	372.8	780	6892	1319	372.8	780	6893	1368.3	372.8	780
6894	1417.7	372.8	780	6895	1467	372.8	780	6896	1516.3	372.8	780	6897	1565.7	372.8	780
6898	1615	372.8	780	6899	1664.3	372.8	780	6900	1713.7	372.8	780	6901	1763	372.8	780
6902	1812.3	372.8	780	6903	1861.7	372.8	780	6904	1911	372.8	780	6905	2104	372.8	780
6906	2153.3	372.8	780	6907	2202.7	372.8	780	6908	2252	372.8	780	6909	2301.3	372.8	780
6910	2350.7	372.8	780	6911	2400	372.8	780	6912	2449.3	372.8	780	6913	2498.7	372.8	780
6914	2548	372.8	780	6915	2597.3	372.8	780	6916	2646.7	372.8	780	6917	2696	372.8	780
6918	2745.3	372.8	780	6919	2794.7	372.8	780	6920	2844	372.8	780	6921	2893.3	372.8	780
6922	2942.7	372.8	780	6923	2992	372.8	780	6924	3041.3	372.8	780	6925	3090.7	372.8	780
6926	3140	372.8	780	6927	3189.3	372.8	780	6928	3238.7	372.8	780	6929	3288	372.8	780
6930	3338.6	372.8	780	6931	3389.2	372.8	780	6932	3439.8	372.8	780	6933	3490.3	372.8	780
6934	3540.9	372.8	780	6935	3591.5	372.8	780	6936	3642.1	372.8	780	6937	3692.7	372.8	780
6938	3743.3	372.8	780	6939	3793.8	372.8	780	6940	3844.4	372.8	780	6941	3895	372.8	780
6942	89.3	372.9	780	6943	1956.8	372.9	780	6944	2058.3	372.9	780	6945	43.5	372.9	780
6946	2002.5	372.9	780	6947	2012.5	372.9	780	6948	43.5	422.1	780	6949	2002.5	422.1	780
6950	2012.5	422.1	780	6951	89.3	422.1	780	6952	1956.8	422.1	780	6953	2058.3	422.1	780
6954	135	422.2	780	6955	184.3	422.2	780	6956	233.7	422.2	780	6957	283	422.2	780
6958	332.3	422.2	780	6959	381.7	422.2	780	6960	431	422.2	780	6961	480.3	422.2	780
6962	529.7	422.2	780	6963	579	422.2	780	6964	628.3	422.2	780	6965	677.7	422.2	780
6966	727	422.2	780	6967	776.3	422.2	780	6968	825.7	422.2	780	6969	875	422.2	780
6970	924.3	422.2	780	6971	973.7	422.2	780	6972	1023	422.2	780	6973	1072.3	422.2	780
6974	1121.7	422.2	780	6975	1171	422.2	780	6976	1220.3	422.2	780	6977	1269.7	422.2	780
6978	1319	422.2	780	6979	1368.3	422.2	780	6980	1417.7	422.2	780	6981	1467	422.2	780
6982	1516.3	422.2	780	6983	1565.7	422.2	780	6984	1615	422.2	780	6985	1664.3	422.2	780
6986	1713.7	422.2	780	6987	1763	422.2	780	6988	1812.3	422.2	780	6989	1861.7	422.2	780
6990	1911	422.2	780	6991	2104	422.2	780	6992	2153.3	422.2	780	6993	2202.7	422.2	780
6994	2252	422.2	780	6995	2301.3	422.2	780	6996	2350.7	422.2	780	6997	2400	422.2	780
6998	2449.3	422.2	780	6999	2498.7	422.2	780	7000	2548	422.2	780	7001	2597.3	422.2	780
7002	2646.7	422.2	780	7003	2696	422.2	780	7004	2745.3	422.2	780	7005	2794.7	422.2	780
7006	2844	422.2	780	7007	2893.3	422.2	780	7008	2942.7	422.2	780	7009	2992	422.2	780
7010	3041.3	422.2	780	7011	3090.7	422.2	780	7012	3140	422.2	780	7013	3189.3	422.2	780
7014	3238.7	422.2	780	7015	3288	422.2	780	7016	3338.6	422.2	780	7017	3389.2	422.2	780
7018	3439.8	422.2	780	7019	3490.3	422.2	780	7020	3540.9	422.2	780	7021	3591.5	422.2	780
7022	3642.1	422.2	780	7023	3692.7	422.2	780	7024	3743.3	422.2	780	7025	3793.8	422.2	780
7026	3844.4	422.2	780	7027	3895	422.2	780	7028	43.5	471.2	780	7029	2002.5	471.2	780
7030	2012.5	471.2	780	7031	89.3	471.3	780	7032	1956.8	471.3	780	7033	2058.3	471.3	780
7034	135	471.5	780	7035	184.3	471.5	780	7036	233.7	471.5	780	7037	283	471.5	780
7038	332.3	471.5	780	7039	381.7	471.5	780	7040	431	471.5	780	7041	480.3	471.5	780
7042	529.7	471.5	780	7043	579	471.5	780	7044	628.3	471.5	780	7045	677.7	471.5	780
7046	727	471.5	780	7047	776.3	471.5	780	7048	825.7	471.5	780	7049	875	471.5	780
7050	924.3	471.5	780	7051	973.7	471.5	780	7052	1023	471.5	780	7053	1072.3	471.5	780
7054	1121.7	471.5	780	7055	1171	471.5	780	7056	1220.3	471.5	780	7057	1269.7	471.5	780
7058	1319	471.5	780	7059	1368.3	471.5	780	7060	1417.7	471.5	780	7061	1467	471.5	780

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
7062	1516.3	471.5	780	7063	1565.7	471.5	780	7064	1615	471.5	780	7065	1664.3	471.5	780
7066	1713.7	471.5	780	7067	1763	471.5	780	7068	1812.3	471.5	780	7069	1861.7	471.5	780
7070	1911	471.5	780	7071	2104	471.5	780	7072	2153.3	471.5	780	7073	2202.7	471.5	780
7074	2252	471.5	780	7075	2301.3	471.5	780	7076	2350.7	471.5	780	7077	2400	471.5	780
7078	2449.3	471.5	780	7079	2498.7	471.5	780	7080	2548	471.5	780	7081	2597.3	471.5	780
7082	2646.7	471.5	780	7083	2696	471.5	780	7084	2745.3	471.5	780	7085	2794.7	471.5	780
7086	2844	471.5	780	7087	2893.3	471.5	780	7088	2942.7	471.5	780	7089	2992	471.5	780
7090	3041.3	471.5	780	7091	3090.7	471.5	780	7092	3140	471.5	780	7093	3189.3	471.5	780
7094	3238.7	471.5	780	7095	3288	471.5	780	7096	3338.6	471.5	780	7097	3389.2	471.5	780
7098	3439.8	471.5	780	7099	3490.3	471.5	780	7100	3540.9	471.5	780	7101	3591.5	471.5	780
7102	3642.1	471.5	780	7103	3692.7	471.5	780	7104	3743.3	471.5	780	7105	3793.8	471.5	780
7106	3844.4	471.5	780	7107	3895	471.5	780	7108	43.5	520.3	780	7109	2002.5	520.3	780
7110	2012.5	520.3	780	7111	89.3	520.6	780	7112	1956.8	520.6	780	7113	2058.3	520.6	780
7114	135	520.8	780	7115	184.3	520.8	780	7116	233.7	520.8	780	7117	283	520.8	780
7118	332.3	520.8	780	7119	381.7	520.8	780	7120	431	520.8	780	7121	480.3	520.8	780
7122	529.7	520.8	780	7123	579	520.8	780	7124	628.3	520.8	780	7125	677.7	520.8	780
7126	727	520.8	780	7127	776.3	520.8	780	7128	825.7	520.8	780	7129	875	520.8	780
7130	924.3	520.8	780	7131	973.7	520.8	780	7132	1023	520.8	780	7133	1072.3	520.8	780
7134	1121.7	520.8	780	7135	1171	520.8	780	7136	1220.3	520.8	780	7137	1269.7	520.8	780
7138	1319	520.8	780	7139	1368.3	520.8	780	7140	1417.7	520.8	780	7141	1467	520.8	780
7142	1516.3	520.8	780	7143	1565.7	520.8	780	7144	1615	520.8	780	7145	1664.3	520.8	780
7146	1713.7	520.8	780	7147	1763	520.8	780	7148	1812.3	520.8	780	7149	1861.7	520.8	780
7150	1911	520.8	780	7151	2104	520.8	780	7152	2153.3	520.8	780	7153	2202.7	520.8	780
7154	2252	520.8	780	7155	2301.3	520.8	780	7156	2350.7	520.8	780	7157	2400	520.8	780
7158	2449.3	520.8	780	7159	2498.7	520.8	780	7160	2548	520.8	780	7161	2597.3	520.8	780
7162	2646.7	520.8	780	7163	2696	520.8	780	7164	2745.3	520.8	780	7165	2794.7	520.8	780
7166	2844	520.8	780	7167	2893.3	520.8	780	7168	2942.7	520.8	780	7169	2992	520.8	780
7170	3041.3	520.8	780	7171	3090.7	520.8	780	7172	3140	520.8	780	7173	3189.3	520.8	780
7174	3238.7	520.8	780	7175	3288	520.8	780	7176	3338.6	520.8	780	7177	3389.2	520.8	780
7178	3439.8	520.8	780	7179	3490.3	520.8	780	7180	3540.9	520.8	780	7181	3591.5	520.8	780
7182	3642.1	520.8	780	7183	3692.7	520.8	780	7184	3743.3	520.8	780	7185	3793.8	520.8	780
7186	3844.4	520.8	780	7187	3895	520.8	780	7188	43.5	569.4	780	7189	2002.5	569.4	780
7190	2012.5	569.4	780	7191	89.3	569.9	780	7192	1956.8	569.9	780	7193	2058.3	569.9	780
7194	135	570.2	780	7195	184.3	570.2	780	7196	233.7	570.2	780	7197	283	570.2	780
7198	332.3	570.2	780	7199	381.7	570.2	780	7200	431	570.2	780	7201	480.3	570.2	780
7202	529.7	570.2	780	7203	579	570.2	780	7204	628.3	570.2	780	7205	677.7	570.2	780
7206	727	570.2	780	7207	776.3	570.2	780	7208	825.7	570.2	780	7209	875	570.2	780
7210	924.3	570.2	780	7211	973.7	570.2	780	7212	1023	570.2	780	7213	1072.3	570.2	780
7214	1121.7	570.2	780	7215	1171	570.2	780	7216	1220.3	570.2	780	7217	1269.7	570.2	780
7218	1319	570.2	780	7219	1368.3	570.2	780	7220	1417.7	570.2	780	7221	1467	570.2	780
7222	1516.3	570.2	780	7223	1565.7	570.2	780	7224	1615	570.2	780	7225	1664.3	570.2	780
7226	1713.7	570.2	780	7227	1763	570.2	780	7228	1812.3	570.2	780	7229	1861.7	570.2	780
7230	1911	570.2	780	7231	2104	570.2	780	7232	2153.3	570.2	780	7233	2202.7	570.2	780
7234	2252	570.2	780	7235	2301.3	570.2	780	7236	2350.7	570.2	780	7237	2400	570.2	780
7238	2449.3	570.2	780	7239	2498.7	570.2	780	7240	2548	570.2	780	7241	2597.3	570.2	780
7242	2646.7	570.2	780	7243	2696	570.2	780	7244	2745.3	570.2	780	7245	2794.7	570.2	780
7246	2844	570.2	780	7247	2893.3	570.2	780	7248	2942.7	570.2	780	7249	2992	570.2	780
7250	3041.3	570.2	780	7251	3090.7	570.2	780	7252	3140	570.2	780	7253	3189.3	570.2	780
7254	3238.7	570.2	780	7255	3288	570.2	780	7256	3338.6	570.2	780	7257	3389.2	570.2	780
7258	3439.8	570.2	780	7259	3490.3	570.2	780	7260	3540.9	570.2	780	7261	3591.5	570.2	780
7262	3642.1	570.2	780	7263	3692.7	570.2	780	7264	3743.3	570.2	780	7265	3793.8	570.2	780
7266	3844.4	570.2	780	7267	3895	570.2	780	7268	43.5	618.5	780	7269	2002.5	618.5	780
7270	2012.5	618.5	780	7271	135	619.5	780	7272	184.3	619.5	780	7273	233.7	619.5	780
7274	283	619.5	780	7275	332.3	619.5	780	7276	381.7	619.5	780	7277	431	619.5	780
7278	480.3	619.5	780	7279	529.7	619.5	780	7280	579	619.5	780	7281	628.3	619.5	780
7282	677.7	619.5	780	7283	727	619.5	780	7284	776.3	619.5	780	7285	825.7	619.5	780
7286	875	619.5	780	7287	924.3	619.5	780	7288	973.7	619.5	780	7289	1023	619.5	780
7290	1072.3	619.5	780	7291	1121.7	619.5	780	7292	1171	619.5	780	7293	1220.3	619.5	780
7294	1269.7	619.5	780	7295	1319	619.5	780	7296	1368.3	619.5	780	7297	1417.7	619.5	780
7298	1467	619.5	780	7299	1516.3	619.5	780	7300	1565.7	619.5	780	7301	1615	619.5	780
7302	1664.3	619.5	780	7303	1713.7	619.5	780	7304	1763	619.5	780	7305	1812.3	619.5	780
7306	1861.7	619.5	780	7307	1911	619.5	780	7308	2104	619.5	780	7309	2153.3	619.5	780
7310	2202.7	619.5	780	7311	2252	619.5	780	7312	2301.3	619.5	780	7313	2350.7	619.5	780
7314	2400	619.5	780	7315	2449.3	619.5	780	7316	2498.7	619.5	780	7317	2548	619.5	780
7318	2597.3	619.5	780	7319	2646.7	619.5	780	7320	2696	619.5	780	7321	2745.3	619.5	780
7322	2794.7	619.5	780	7323	2844	619.5	780	7324	2893.3	619.5	780	7325	2942.7	619.5	780
7326	2992	619.5	780	7327	3041.3	619.5	780	7328	3090.7	619.5	780	7329	3140	619.5	780
7330	3189.3	619.5	780	7331	3238.7	619.5	780	7332	3288	619.5	780	7333	3338.6	619.5	780
7334	3389.2	619.5	780	7335	3439.8	619.5	780	7336	3490.3	619.5	780	7337	3540.9	619.5	780
7338	3591.5	619.5	780	7339	3642.1	619.5	780	7340	3692.7	619.5	780	7341	3743.3	619.5	780
7342	3793.8	619.5	780	7343	3844.4	619.5	780	7344	3895	619.5	780	7345	89.3	619.6	780
7346	1956.8	619.6	780	7347	2058.3	619.6	780	7348	43.5	667.6	780	7349	2002.5	667.6	780
7350	2012.5	667.6	780	7351	431	669.8	780	7352	1023	669.8	780	7353	1615	669.8	780
7354	2400	669.8	780	7355	2992	669.8	780	7356	3591.5	669.8	780	7357	381.7	669.8	780
7358	480.3	669.8	780	7359	973.7	669.8	780	7360	1072.3	669.8	780	7361	1565.7	669.8	780
7362	1664.3	669.8	780	7363	2350.7	669.8	780	7364	2449.3	669.8	780	7365	2942.7	669.8	780
7366	3041.3	669.8	780	7367	3540.9	669.8	780	7368	3642.1	669.8	780	7369	332.3	669.8	780
7370	529.7	669.8	780	7371	924.3	669.8	780	7372	1121.7	669.8	780	7373	1516.3	669.8	780
7374	1713.7	669.8	780	7375	2301.3	669.8	780	7376	2498.7	669.8	780	7377	2893.3	669.8	780
7378	3090.7	669.8	780	7379	3490.3	669.8	780	7380	3692.7	669.8	780	7381	283	669.9	780
7382	579	669.9	780	7383	875	669.9	780	7384	1171	669.9	780	7385	1467	669.9	780
7386	1763	669.9	780	7387	2252	669.9	780	7388	2548	669.9	780	7389	2844	669.9	780
7390	3140	669.9	780	7391	3439.8	669.9	780	7392	3743.3	669.9	780	7393	233.7	670.2	780
7394	628.3	670.2	780	7395	825.7	670.2	780	7396	1220.3	670.2	780	7397	1417.7	670.2	780
7398	1812.3	670.2	780	7399	2202.7	670.2	780	7400	2597.3	670.2	780	7401	2794.7	670.2	780
7402	3189.3	670.2	780	7403	3389.2	670.2	780	7404	3793.8	670.2	780	7405	89.3	670.3	780
7406	1956.8	670.3	780	7407	2058.3	670.3	780	7408	184.3	671.3	780	7409	677.7	671.3	780
7410	776.3	671.3	780	7411	1269.7	671.3	780	7412	1368.3	671.3	780	7413	1861.7	671.3	780
7414	2153.3	671.3	780	7415	2646.7	671.3	780	7416	2745.3	671.3	780	7417	3238.7	671.3	780
7418	3338.6	671.3	780	7419	3844.4	671.3	780	7420	135	675	780	7421	727	675	780
7422	1319	675	780	7423	1911	675	780	7424	2104	675	780	7425	2696	675	780
7426	3288	675	780	7427	3895	675	780	7428	43.5	716.8	780	7429	2002.5	716.8	780
7430	2012.5	716.8	780	7431	89.3	718.9	780	7432	1956.8	718.9	780	7433	2058.3	718.9	780
7434	431	719.2	780	7435	1023	719.2	780	7436	1615	719.2	780	7437	2400	719.2	780
7438	2992	719.2	780	7439	3591.5	719.2	780	7440	381.7	719.2	780	7441	480.3	719.2	780
7442	973.7	719.2	780	7443	1072.3	719.2	780	7444	1565.7	719.2	780	7445	1664.3	719.2	780
7446	2350.7	719.2	780	7447	2449.3	719.2	780	7448	2942.7	719.2	780	7449	3041.3	719.2	780

Indice	Posizione			Indice	Posizione			Indice	Posizione			Indice	Posizione		
	X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z
7450	3540.9	719.2	780	7451	3642.1	719.2	780	7452	332.3	719.2	780	7453	529.7	719.2	780
7454	924.3	719.2	780	7455	1121.7	719.2	780	7456	1516.3	719.2	780	7457	1713.7	719.2	780
7458	2301.3	719.2	780	7459	2498.7	719.2	780	7460	2893.3	719.2	780	7461	3090.7	719.2	780
7462	3490.3	719.2	780	7463	3692.7	719.2	780	7464	283	719.2	780	7465	579	719.2	780
7466	875	719.2	780	7467	1171	719.2	780	7468	1467	719.2	780	7469	1763	719.2	780
7470	2252	719.2	780	7471	2548	719.2	780	7472	2844	719.2	780	7473	3140	719.2	780
7474	3439.8	719.2	780	7475	3743.3	719.2	780	7476	233.7	719.5	780	7477	628.3	719.5	780
7478	825.7	719.5	780	7479	1220.3	719.5	780	7480	1417.7	719.5	780	7481	1812.3	719.5	780
7482	2202.7	719.5	780	7483	2597.3	719.5	780	7484	2794.7	719.5	780	7485	3189.3	719.5	780
7486	3389.2	719.5	780	7487	3793.8	719.5	780	7488	184.3	720.2	780	7489	677.7	720.2	780
7490	776.3	720.2	780	7491	1269.7	720.2	780	7492	1368.3	720.2	780	7493	1861.7	720.2	780
7494	2153.3	720.2	780	7495	2646.7	720.2	780	7496	2745.3	720.2	780	7497	3238.7	720.2	780
7498	3338.6	720.2	780	7499	3844.4	720.2	780	7500	135	721.7	780	7501	727	721.7	780
7502	1319	721.7	780	7503	1911	721.7	780	7504	2104	721.7	780	7505	2696	721.7	780
7506	3288	721.7	780	7507	3895	721.7	780	7508	43.5	765.9	780	7509	2002.5	765.9	780
7510	2012.5	765.9	780	7511	89.3	767	780	7512	1956.8	767	780	7513	2058.3	767	780
7514	431	767.4	780	7515	1023	767.4	780	7516	1615	767.4	780	7517	2400	767.4	780
7518	2992	767.4	780	7519	3591.5	767.4	780	7520	381.7	767.4	780	7521	480.3	767.4	780
7522	973.7	767.4	780	7523	1072.3	767.4	780	7524	1565.7	767.4	780	7525	1664.3	767.4	780
7526	2350.7	767.4	780	7527	2449.3	767.4	780	7528	2942.7	767.4	780	7529	3041.3	767.4	780
7530	3540.9	767.4	780	7531	3642.1	767.4	780	7532	332.3	767.4	780	7533	529.7	767.4	780
7534	924.3	767.4	780	7535	1121.7	767.4	780	7536	1516.3	767.4	780	7537	1713.7	767.4	780
7538	2301.3	767.4	780	7539	2498.7	767.4	780	7540	2893.3	767.4	780	7541	3090.7	767.4	780
7542	3490.3	767.4	780	7543	3692.7	767.4	780	7544	283	767.5	780	7545	579	767.5	780
7546	875	767.5	780	7547	1171	767.5	780	7548	1467	767.5	780	7549	1763	767.5	780
7550	2252	767.5	780	7551	2548	767.5	780	7552	2844	767.5	780	7553	3140	767.5	780
7554	3439.8	767.5	780	7555	3743.3	767.5	780	7556	233.7	767.6	780	7557	628.3	767.6	780
7558	825.7	767.6	780	7559	1220.3	767.6	780	7560	1417.7	767.6	780	7561	1812.3	767.6	780
7562	2202.7	767.6	780	7563	2597.3	767.6	780	7564	2794.7	767.6	780	7565	3189.3	767.6	780
7566	3389.2	767.6	780	7567	3793.8	767.6	780	7568	184.3	767.8	780	7569	677.7	767.8	780
7570	776.3	767.8	780	7571	1269.7	767.8	780	7572	1368.3	767.8	780	7573	1861.7	767.8	780
7574	2153.3	767.8	780	7575	2646.7	767.8	780	7576	2745.3	767.8	780	7577	3238.7	767.8	780
7578	3338.6	767.8	780	7579	3844.4	767.8	780	7580	135	768.3	780	7581	727	768.3	780
7582	1319	768.3	780	7583	1911	768.3	780	7584	2104	768.3	780	7585	2696	768.3	780
7586	3288	768.3	780	7587	3895	768.3	780	7588	43.5	815	780	7589	89.3	815	780
7590	135	815	780	7591	184.3	815	780	7592	233.7	815	780	7593	283	815	780
7594	332.3	815	780	7595	381.7	815	780	7596	431	815	780	7597	480.3	815	780
7598	529.7	815	780	7599	579	815	780	7600	628.3	815	780	7601	677.7	815	780
7602	727	815	780	7603	776.3	815	780	7604	825.7	815	780	7605	875	815	780
7606	924.3	815	780	7607	973.7	815	780	7608	1023	815	780	7609	1072.3	815	780
7610	1121.7	815	780	7611	1171	815	780	7612	1220.3	815	780	7613	1269.7	815	780
7614	1319	815	780	7615	1368.3	815	780	7616	1417.7	815	780	7617	1467	815	780
7618	1516.3	815	780	7619	1565.7	815	780	7620	1615	815	780	7621	1664.3	815	780
7622	1713.7	815	780	7623	1763	815	780	7624	1812.3	815	780	7625	1861.7	815	780
7626	1911	815	780	7627	1956.8	815	780	7628	2002.5	815	780	7629	2012.5	815	780
7630	2058.3	815	780	7631	2104	815	780	7632	2153.3	815	780	7633	2202.7	815	780
7634	2252	815	780	7635	2301.3	815	780	7636	2350.7	815	780	7637	2400	815	780
7638	2449.3	815	780	7639	2498.7	815	780	7640	2548	815	780	7641	2597.3	815	780
7642	2646.7	815	780	7643	2696	815	780	7644	2745.3	815	780	7645	2794.7	815	780
7646	2844	815	780	7647	2893.3	815	780	7648	2942.7	815	780	7649	2992	815	780
7650	3041.3	815	780	7651	3090.7	815	780	7652	3140	815	780	7653	3189.3	815	780
7654	3238.7	815	780	7655	3288	815	780	7656	3338.6	815	780	7657	3389.2	815	780
7658	3439.8	815	780	7659	3490.3	815	780	7660	3540.9	815	780	7661	3591.5	815	780
7662	3642.1	815	780	7663	3692.7	815	780	7664	3743.3	815	780	7665	3793.8	815	780
7666	3844.4	815	780	7667	3895	815	780	7668	1978.6	397.5	780.3	7669	135	-20	790
7670	727	-20	790	7671	1319	-20	790	7672	1911	-20	790	7673	2104	-20	790
7674	2696	-20	790	7675	3288	-20	790	7676	3880	-20	790	7677	135	26.7	790
7678	727	26.7	790	7679	1319	26.7	790	7680	1911	26.7	790	7681	2104	26.7	790
7682	2696	26.7	790	7683	3288	26.7	790	7684	3880	26.7	790	7685	135	73.3	790
7686	727	73.3	790	7687	1319	73.3	790	7688	1911	73.3	790	7689	2104	73.3	790
7690	2696	73.3	790	7691	3288	73.3	790	7692	3880	73.3	790	7693	135	120	790
7694	727	120	790	7695	1319	120	790	7696	1911	120	790	7697	2104	120	790
7698	2696	120	790	7699	3288	120	790	7700	3880	120	790	7701	135	175.5	790
7702	727	175.5	790	7703	1319	175.5	790	7704	1911	175.5	790	7705	2104	175.5	790
7706	2696	175.5	790	7707	3288	175.5	790	7708	3880	175.5	790	7709	135	224.8	790
7710	727	224.8	790	7711	1319	224.8	790	7712	1911	224.8	790	7713	2104	224.8	790
7714	2696	224.8	790	7715	3288	224.8	790	7716	3880	224.8	790	7717	135	274.2	790
7718	727	274.2	790	7719	1319	274.2	790	7720	1911	274.2	790	7721	2104	274.2	790
7722	2696	274.2	790	7723	3288	274.2	790	7724	3880	274.2	790	7725	135	323.5	790
7726	727	323.5	790	7727	1319	323.5	790	7728	1911	323.5	790	7729	2104	323.5	790
7730	2696	323.5	790	7731	3288	323.5	790	7732	3880	323.5	790	7733	135	372.8	790
7734	727	372.8	790	7735	1319	372.8	790	7736	1911	372.8	790	7737	2104	372.8	790
7738	2696	372.8	790	7739	3288	372.8	790	7740	3880	372.8	790	7741	135	422.2	790
7742	727	422.2	790	7743	1319	422.2	790	7744	1911	422.2	790	7745	2104	422.2	790
7746	2696	422.2	790	7747	3288	422.2	790	7748	3880	422.2	790	7749	135	471.5	790
7750	727	471.5	790	7751	1319	471.5	790	7752	1911	471.5	790	7753	2104	471.5	790
7754	2696	471.5	790	7755	3288	471.5	790	7756	3880	471.5	790	7757	135	520.8	790
7758	727	520.8	790	7759	1319	520.8	790	7760	1911	520.8	790	7761	2104	520.8	790
7762	2696	520.8	790	7763	3288	520.8	790	7764	3880	520.8	790	7765	135	570.2	790
7766	727	570.2	790	7767	1319	570.2	790	7768	1911	570.2	790	7769	2104	570.2	790
7770	2696	570.2	790	7771	3288	570.2	790	7772	3880	570.2	790	7773	135	619.5	790
7774	727	619.5	790	7775	1319	619.5	790	7776	1911	619.5	790	7777	2104	619.5	790
7778	2696	619.5	790	7779	3288	619.5	790	7780	3880	619.5	790	7781	135	675	790
7782	727	675	790	7783	1319	675	790	7784	1911	675	790	7785	2104	675	790
7786	2696	675	790	7787	3288	675	790	7788	3880	675	790	7789	135	721.7	790
7790	727	721.7	790	7791	1319	721.7	790	7792	1911	721.7	790	7793	2104	721.7	790
7794	2696	721.7	790	7795	3288	721.7	790	7796	3880	721.7	790	7797	135	768.3	790
7798	727	768.3	790	7799	1319	768.3	790	7800	1911	768.3	790	7801	2104	768.3	790
7802	2696	768.3	790	7803	3288	768.3	790	7804	3880	768.3	790	7805	135	815	790
7806	727	815	790	7807	1319	815	790	7808	1911	815	790	7809	2104	815	790
7810	2696	815	790	7811	3288	815	790	7812	3880	815	790				

6.2 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
4461	6228	Pesi strutturali	0	0	-2.2	0	0	0
4991	6268	Pesi strutturali	0	0	-2.2	0	0	0
5026	7628	Neve	0	0	-3.3	0	0	0
6006	7629	Pesi strutturali	0	0	-2.2	0	0	0
6717	7667	Pesi strutturali	0	0	-2.4	0	0	0
8466	88	Pesi strutturali	-2.0E2	0	0	0	0	0
8468	2055	Pesi strutturali	-2.4E2	0	0	0	0	0
8470	2055	Terreno sisma X SLV	150.8	0	0	0	0	0
8472	2055	Terreno sisma X SLD	55.1	0	0	0	0	0
8474	2174	Pesi strutturali	-51.4	0	0	0	0	0
8476	2174	Terreno sisma X SLV	150.8	0	0	0	0	0
8478	2174	Terreno sisma X SLD	55.1	0	0	0	0	0
8480	2293	Terreno sisma X SLV	150.8	0	0	0	0	0
8482	2293	Terreno sisma X SLD	55.1	0	0	0	0	0
8484	2412	Terreno sisma X SLV	75.4	0	0	0	0	0
8486	2412	Terreno sisma X SLD	27.5	0	0	0	0	0
8488	2056	Pesi strutturali	-2.4E2	0	0	0	0	0
8490	2056	Terreno sisma X SLD	55.1	0	0	0	0	0
8492	2175	Terreno sisma X SLV	150.8	0	0	0	0	0
8494	2294	Terreno sisma X SLV	150.8	0	0	0	0	0
8496	2413	Terreno sisma X SLV	75.4	0	0	0	0	0
8498	258	Pesi strutturali	-2.0E2	0	0	0	0	0
8500	2057	Terreno sisma X SLV	150.8	0	0	0	0	0
8502	2176	Pesi strutturali	-51.4	0	0	0	0	0
8504	2176	Terreno sisma X SLD	55.1	0	0	0	0	0
8506	2295	Terreno sisma X SLD	55.1	0	0	0	0	0
8508	2414	Terreno sisma X SLD	27.5	0	0	0	0	0
8510	2058	Pesi strutturali	-2.4E2	0	0	0	0	0
8512	2058	Terreno sisma X SLD	55.1	0	0	0	0	0
8514	2177	Terreno sisma X SLV	150.8	0	0	0	0	0
8516	2296	Terreno sisma X SLV	150.8	0	0	0	0	0
8518	2415	Terreno sisma X SLV	75.4	0	0	0	0	0
8520	428	Pesi strutturali	-2.0E2	0	0	0	0	0
8522	2059	Terreno sisma X SLV	150.8	0	0	0	0	0
8524	2178	Pesi strutturali	-51.4	0	0	0	0	0
8526	2178	Terreno sisma X SLD	55.1	0	0	0	0	0
8528	2297	Terreno sisma X SLD	55.1	0	0	0	0	0
8530	2416	Terreno sisma X SLD	27.5	0	0	0	0	0
8532	2060	Pesi strutturali	-2.4E2	0	0	0	0	0
8534	2060	Terreno sisma X SLD	55.1	0	0	0	0	0
8536	2179	Terreno sisma X SLV	150.8	0	0	0	0	0
8538	2298	Terreno sisma X SLV	150.8	0	0	0	0	0
8540	2417	Terreno sisma X SLV	75.4	0	0	0	0	0
8542	598	Pesi strutturali	-2.0E2	0	0	0	0	0
8544	2061	Terreno sisma X SLV	150.8	0	0	0	0	0
8546	2180	Pesi strutturali	-51.4	0	0	0	0	0
4530	7588	Pesi strutturali	0	0	-2.2	0	0	0
5025	7628	Pesi strutturali	0	0	-2.2	0	0	0
5937	6269	Pesi strutturali	0	0	-2.2	0	0	0
6395	6307	Pesi strutturali	0	0	-2.4	0	0	0
8465	85	Pesi strutturali	-97.7	0	0	0	0	0
8467	2054	Pesi strutturali	-121	0	0	0	0	0
8469	2054	Terreno sisma X SLV	75.4	0	0	0	0	0
8471	2054	Terreno sisma X SLD	27.5	0	0	0	0	0
8473	2173	Pesi strutturali	-25.7	0	0	0	0	0
8475	2173	Terreno sisma X SLV	75.4	0	0	0	0	0
8477	2173	Terreno sisma X SLD	27.5	0	0	0	0	0
8479	2292	Terreno sisma X SLV	75.4	0	0	0	0	0
8481	2292	Terreno sisma X SLD	27.5	0	0	0	0	0
8483	2411	Terreno sisma X SLV	37.7	0	0	0	0	0
8485	2411	Terreno sisma X SLD	13.8	0	0	0	0	0
8487	173	Pesi strutturali	-2.0E2	0	0	0	0	0
8489	2056	Terreno sisma X SLV	150.8	0	0	0	0	0
8491	2175	Pesi strutturali	-51.4	0	0	0	0	0
8493	2175	Terreno sisma X SLD	55.1	0	0	0	0	0
8495	2294	Terreno sisma X SLD	55.1	0	0	0	0	0
8497	2413	Terreno sisma X SLD	27.5	0	0	0	0	0
8499	2057	Pesi strutturali	-2.4E2	0	0	0	0	0
8501	2057	Terreno sisma X SLD	55.1	0	0	0	0	0
8503	2176	Terreno sisma X SLV	150.8	0	0	0	0	0
8505	2295	Terreno sisma X SLV	150.8	0	0	0	0	0
8507	2414	Terreno sisma X SLV	75.4	0	0	0	0	0
8509	343	Pesi strutturali	-2.0E2	0	0	0	0	0
8511	2058	Terreno sisma X SLV	150.8	0	0	0	0	0
8513	2177	Pesi strutturali	-51.4	0	0	0	0	0
8515	2177	Terreno sisma X SLD	55.1	0	0	0	0	0
8517	2296	Terreno sisma X SLD	55.1	0	0	0	0	0
8519	2415	Terreno sisma X SLD	27.5	0	0	0	0	0
8521	2059	Pesi strutturali	-2.4E2	0	0	0	0	0
8523	2059	Terreno sisma X SLD	55.1	0	0	0	0	0
8525	2178	Terreno sisma X SLV	150.8	0	0	0	0	0
8527	2297	Terreno sisma X SLV	150.8	0	0	0	0	0
8529	2416	Terreno sisma X SLV	75.4	0	0	0	0	0
8531	513	Pesi strutturali	-2.0E2	0	0	0	0	0
8533	2060	Terreno sisma X SLV	150.8	0	0	0	0	0
8535	2179	Pesi strutturali	-51.4	0	0	0	0	0
8537	2179	Terreno sisma X SLD	55.1	0	0	0	0	0
8539	2298	Terreno sisma X SLD	55.1	0	0	0	0	0
8541	2417	Terreno sisma X SLD	27.5	0	0	0	0	0
8543	2061	Pesi strutturali	-2.4E2	0	0	0	0	0
8545	2061	Terreno sisma X SLD	55.1	0	0	0	0	0
8547	2180	Terreno sisma X SLV	150.8	0	0	0	0	0

Indice	Nodo	Condizione	Fx	Fy	Fz	Mx	My	Mz
8548	2180	Terreno sisma X SLD	55.1	0	0	0	0	0
8550	2299	Terreno sisma X SLD	55.1	0	0	0	0	0
8552	2418	Terreno sisma X SLD	27.5	0	0	0	0	0
8554	2062	Pesi strutturali	-2.4E2	0	0	0	0	0
8556	2062	Terreno sisma X SLD	55.1	0	0	0	0	0
8558	2181	Terreno sisma X SLV	150.8	0	0	0	0	0
8560	2300	Terreno sisma X SLV	150.8	0	0	0	0	0
8562	2419	Terreno sisma X SLV	75.4	0	0	0	0	0
8564	768	Pesi strutturali	-2.0E2	0	0	0	0	0
8566	2063	Terreno sisma X SLV	150.8	0	0	0	0	0
8568	2182	Pesi strutturali	-51.4	0	0	0	0	0
8570	2182	Terreno sisma X SLD	55.1	0	0	0	0	0
8572	2301	Terreno sisma X SLD	55.1	0	0	0	0	0
8574	2420	Terreno sisma X SLD	27.5	0	0	0	0	0
8576	2064	Pesi strutturali	-2.4E2	0	0	0	0	0
8578	2064	Terreno sisma X SLD	55.1	0	0	0	0	0
8580	2183	Terreno sisma X SLV	150.8	0	0	0	0	0
8582	2302	Terreno sisma X SLV	150.8	0	0	0	0	0
8584	2421	Terreno sisma X SLV	75.4	0	0	0	0	0
8586	938	Pesi strutturali	-2.0E2	0	0	0	0	0
8588	2065	Terreno sisma X SLV	150.8	0	0	0	0	0
8590	2184	Pesi strutturali	-51.4	0	0	0	0	0
8592	2184	Terreno sisma X SLD	55.1	0	0	0	0	0
8594	2303	Terreno sisma X SLD	55.1	0	0	0	0	0
8596	2422	Terreno sisma X SLD	27.5	0	0	0	0	0
8598	2066	Pesi strutturali	-2.4E2	0	0	0	0	0
8600	2066	Terreno sisma X SLD	55.1	0	0	0	0	0
8602	2185	Terreno sisma X SLV	150.8	0	0	0	0	0
8604	2304	Terreno sisma X SLV	150.8	0	0	0	0	0
8606	2423	Terreno sisma X SLV	75.4	0	0	0	0	0
8608	1108	Pesi strutturali	-2.0E2	0	0	0	0	0
8610	2067	Terreno sisma X SLV	150.8	0	0	0	0	0
8612	2186	Pesi strutturali	-51.4	0	0	0	0	0
8614	2186	Terreno sisma X SLD	55.1	0	0	0	0	0
8616	2305	Terreno sisma X SLD	55.1	0	0	0	0	0
8618	2424	Terreno sisma X SLD	27.5	0	0	0	0	0
8620	2068	Pesi strutturali	-2.4E2	0	0	0	0	0
8622	2068	Terreno sisma X SLD	55.1	0	0	0	0	0
8624	2187	Terreno sisma X SLV	150.8	0	0	0	0	0
8626	2306	Terreno sisma X SLV	150.8	0	0	0	0	0
8628	2425	Terreno sisma X SLV	75.4	0	0	0	0	0
8630	1278	Pesi strutturali	-2.0E2	0	0	0	0	0
8632	2069	Terreno sisma X SLV	150.8	0	0	0	0	0
8634	2188	Pesi strutturali	-51.4	0	0	0	0	0
8636	2188	Terreno sisma X SLD	55.1	0	0	0	0	0
8638	2307	Terreno sisma X SLD	55.1	0	0	0	0	0
8640	2426	Terreno sisma X SLD	27.5	0	0	0	0	0
8642	2070	Pesi strutturali	-2.4E2	0	0	0	0	0
8644	2070	Terreno sisma X SLD	55.1	0	0	0	0	0
8646	2189	Terreno sisma X SLV	150.8	0	0	0	0	0
8648	2308	Terreno sisma X SLV	150.8	0	0	0	0	0
8549	2299	Terreno sisma X SLV	150.8	0	0	0	0	0
8551	2418	Terreno sisma X SLV	75.4	0	0	0	0	0
8553	683	Pesi strutturali	-2.0E2	0	0	0	0	0
8555	2062	Terreno sisma X SLV	150.8	0	0	0	0	0
8557	2181	Pesi strutturali	-51.4	0	0	0	0	0
8559	2181	Terreno sisma X SLD	55.1	0	0	0	0	0
8561	2300	Terreno sisma X SLD	55.1	0	0	0	0	0
8563	2419	Terreno sisma X SLD	27.5	0	0	0	0	0
8565	2063	Pesi strutturali	-2.4E2	0	0	0	0	0
8567	2063	Terreno sisma X SLD	55.1	0	0	0	0	0
8569	2182	Terreno sisma X SLV	150.8	0	0	0	0	0
8571	2301	Terreno sisma X SLV	150.8	0	0	0	0	0
8573	2420	Terreno sisma X SLV	75.4	0	0	0	0	0
8575	853	Pesi strutturali	-2.0E2	0	0	0	0	0
8577	2064	Terreno sisma X SLV	150.8	0	0	0	0	0
8579	2183	Pesi strutturali	-51.4	0	0	0	0	0
8581	2183	Terreno sisma X SLD	55.1	0	0	0	0	0
8583	2302	Terreno sisma X SLD	55.1	0	0	0	0	0
8585	2421	Terreno sisma X SLD	27.5	0	0	0	0	0
8587	2065	Pesi strutturali	-2.4E2	0	0	0	0	0
8589	2065	Terreno sisma X SLD	55.1	0	0	0	0	0
8591	2184	Terreno sisma X SLV	150.8	0	0	0	0	0
8593	2303	Terreno sisma X SLV	150.8	0	0	0	0	0
8595	2422	Terreno sisma X SLV	75.4	0	0	0	0	0
8597	1023	Pesi strutturali	-2.0E2	0	0	0	0	0
8599	2066	Terreno sisma X SLV	150.8	0	0	0	0	0
8601	2185	Pesi strutturali	-51.4	0	0	0	0	0
8603	2185	Terreno sisma X SLD	55.1	0	0	0	0	0
8605	2304	Terreno sisma X SLD	55.1	0	0	0	0	0
8607	2423	Terreno sisma X SLD	27.5	0	0	0	0	0
8609	2067	Pesi strutturali	-2.4E2	0	0	0	0	0
8611	2067	Terreno sisma X SLD	55.1	0	0	0	0	0
8613	2186	Terreno sisma X SLV	150.8	0	0	0	0	0
8615	2305	Terreno sisma X SLV	150.8	0	0	0	0	0
8617	2424	Terreno sisma X SLV	75.4	0	0	0	0	0
8619	1193	Pesi strutturali	-2.0E2	0	0	0	0	0
8621	2068	Terreno sisma X SLV	150.8	0	0	0	0	0
8623	2187	Pesi strutturali	-51.4	0	0	0	0	0
8625	2187	Terreno sisma X SLD	55.1	0	0	0	0	0
8627	2306	Terreno sisma X SLD	55.1	0	0	0	0	0
8629	2425	Terreno sisma X SLD	27.5	0	0	0	0	0
8631	2069	Pesi strutturali	-2.4E2	0	0	0	0	0
8633	2069	Terreno sisma X SLD	55.1	0	0	0	0	0
8635	2188	Terreno sisma X SLV	150.8	0	0	0	0	0
8637	2307	Terreno sisma X SLV	150.8	0	0	0	0	0
8639	2426	Terreno sisma X SLV	75.4	0	0	0	0	0
8641	1363	Pesi strutturali	-2.0E2	0	0	0	0	0
8643	2070	Terreno sisma X SLV	150.8	0	0	0	0	0
8645	2189	Pesi strutturali	-51.4	0	0	0	0	0
8647	2189	Terreno sisma X SLD	55.1	0	0	0	0	0
8649	2308	Terreno sisma X SLD	55.1	0	0	0	0	0

Indice	Nodo	Condizione	Fx	Fy	Fz	Mx	My	Mz
8650	2427	Terreno sisma X SLV	75.4	0	0	0	0	0
8652	1448	Pesi strutturali	-2.0E2	0	0	0	0	0
8654	2071	Terreno sisma X SLV	150.8	0	0	0	0	0
8656	2190	Pesi strutturali	-51.4	0	0	0	0	0
8658	2190	Terreno sisma X SLD	55.1	0	0	0	0	0
8660	2309	Terreno sisma X SLD	55.1	0	0	0	0	0
8662	2428	Terreno sisma X SLD	27.5	0	0	0	0	0
8664	2072	Pesi strutturali	-2.4E2	0	0	0	0	0
8666	2072	Terreno sisma X SLD	55.1	0	0	0	0	0
8668	2191	Terreno sisma X SLV	150.8	0	0	0	0	0
8670	2310	Terreno sisma X SLV	150.8	0	0	0	0	0
8672	2429	Terreno sisma X SLV	75.4	0	0	0	0	0
8674	1618	Pesi strutturali	-2.0E2	0	0	0	0	0
8676	2073	Terreno sisma X SLV	150.8	0	0	0	0	0
8678	2192	Pesi strutturali	-51.4	0	0	0	0	0
8680	2192	Terreno sisma X SLD	55.1	0	0	0	0	0
8682	2311	Terreno sisma X SLD	55.1	0	0	0	0	0
8684	2430	Terreno sisma X SLD	27.5	0	0	0	0	0
8686	2074	Pesi strutturali	-2.4E2	0	0	0	0	0
8688	2074	Terreno sisma X SLD	55.1	0	0	0	0	0
8690	2193	Terreno sisma X SLV	150.8	0	0	0	0	0
8692	2312	Terreno sisma X SLV	150.8	0	0	0	0	0
8694	2431	Terreno sisma X SLV	75.4	0	0	0	0	0
8696	1806	Pesi strutturali	-2.0E2	0	0	0	0	0
8698	2075	Terreno sisma X SLV	150.8	0	0	0	0	0
8700	2194	Pesi strutturali	-51.4	0	0	0	0	0
8702	2194	Terreno sisma X SLD	55.1	0	0	0	0	0
8704	2313	Terreno sisma X SLD	55.1	0	0	0	0	0
8706	2432	Terreno sisma X SLD	27.5	0	0	0	0	0
8708	2076	Pesi strutturali	-121	0	0	0	0	0
8710	2076	Terreno sisma X SLD	27.5	0	0	0	0	0
8712	2195	Terreno sisma X SLV	75.4	0	0	0	0	0
8714	2314	Terreno sisma X SLV	75.4	0	0	0	0	0
8716	2433	Terreno sisma X SLV	37.7	0	0	0	0	0
8850	7668	Rig Ux	1	0	0	0	0	0
8852	7668	Rig Rz	0	0	0	0	0	1

Indice	Nodo	Condizione	Fx	Fy	Fz	Mx	My	Mz
8651	2427	Terreno sisma X SLD	27.5	0	0	0	0	0
8653	2071	Pesi strutturali	-2.4E2	0	0	0	0	0
8655	2071	Terreno sisma X SLD	55.1	0	0	0	0	0
8657	2190	Terreno sisma X SLV	150.8	0	0	0	0	0
8659	2309	Terreno sisma X SLV	150.8	0	0	0	0	0
8661	2428	Terreno sisma X SLV	75.4	0	0	0	0	0
8663	1533	Pesi strutturali	-2.0E2	0	0	0	0	0
8665	2072	Terreno sisma X SLV	150.8	0	0	0	0	0
8667	2191	Pesi strutturali	-51.4	0	0	0	0	0
8669	2191	Terreno sisma X SLD	55.1	0	0	0	0	0
8671	2310	Terreno sisma X SLD	55.1	0	0	0	0	0
8673	2429	Terreno sisma X SLD	27.5	0	0	0	0	0
8675	2073	Pesi strutturali	-2.4E2	0	0	0	0	0
8677	2073	Terreno sisma X SLD	55.1	0	0	0	0	0
8679	2192	Terreno sisma X SLV	150.8	0	0	0	0	0
8681	2311	Terreno sisma X SLV	150.8	0	0	0	0	0
8683	2430	Terreno sisma X SLV	75.4	0	0	0	0	0
8685	1703	Pesi strutturali	-2.0E2	0	0	0	0	0
8687	2074	Terreno sisma X SLV	150.8	0	0	0	0	0
8689	2193	Pesi strutturali	-51.4	0	0	0	0	0
8691	2193	Terreno sisma X SLD	55.1	0	0	0	0	0
8693	2312	Terreno sisma X SLD	55.1	0	0	0	0	0
8695	2431	Terreno sisma X SLD	27.5	0	0	0	0	0
8697	2075	Pesi strutturali	-2.4E2	0	0	0	0	0
8699	2075	Terreno sisma X SLD	55.1	0	0	0	0	0
8701	2194	Terreno sisma X SLV	150.8	0	0	0	0	0
8703	2313	Terreno sisma X SLV	150.8	0	0	0	0	0
8705	2432	Terreno sisma X SLV	75.4	0	0	0	0	0
8707	1955	Pesi strutturali	-97.7	0	0	0	0	0
8709	2076	Terreno sisma X SLV	75.4	0	0	0	0	0
8711	2195	Pesi strutturali	-25.7	0	0	0	0	0
8713	2195	Terreno sisma X SLD	27.5	0	0	0	0	0
8715	2314	Terreno sisma X SLD	27.5	0	0	0	0	0
8717	2433	Terreno sisma X SLD	13.8	0	0	0	0	0
8851	7668	Rig Uy	0	1	0	0	0	0

6.3 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]*
***γ**: coefficiente γ. Il valore è adimensionale.*

Indice	Nodo	Condizione	Fx	Fy	Fz	Mz	Peso	γ
15741	3776	Sisma X SLV	146.4	0	0	0	9.3E2	0.897
15789	3788	Sisma X SLV	146.2	0	0	0	9.3E2	0.897
15921	3821	Sisma X SLV	146.3	0	0	0	9.3E2	0.897
15969	3833	Sisma X SLV	146.2	0	0	0	9.3E2	0.897
19053	4604	Sisma X SLV	145.4	0	0	0	9.2E2	0.897
19125	4622	Sisma X SLV	145.1	0	0	0	9.2E2	0.897
19213	4644	Sisma X SLV	145.5	0	0	0	9.2E2	0.897
19289	4663	Sisma X SLV	145	0	0	0	9.2E2	0.897
19317	4670	Sisma X SLV	119.5	0	0	0	7.6E2	0.897
19321	4671	Sisma X SLV	119.7	0	0	0	7.6E2	0.897

Indice	Nodo	Condizione	Fx	Fy	Fz	Mz	Peso	γ
15742	3776	Sisma Y SLV	0	146.4	0	0	9.3E2	0.897
15790	3788	Sisma Y SLV	0	146.2	0	0	9.3E2	0.897
15922	3821	Sisma Y SLV	0	146.3	0	0	9.3E2	0.897
15970	3833	Sisma Y SLV	0	146.2	0	0	9.3E2	0.897
19054	4604	Sisma Y SLV	0	145.4	0	0	9.2E2	0.897
19126	4622	Sisma Y SLV	0	145.1	0	0	9.2E2	0.897
19214	4644	Sisma Y SLV	0	145.5	0	0	9.2E2	0.897
19290	4663	Sisma Y SLV	0	145	0	0	9.2E2	0.897
19318	4670	Sisma Y SLV	0	119.5	0	0	7.6E2	0.897
19322	4671	Sisma Y SLV	0	119.7	0	0	7.6E2	0.897

6.4 Aste

6.4.1 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]*
***α**: 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	α	P.unit.	S.fibre	Sez.corr.	Mat.corr.
												Desc.	Desc.
1	2400	2000	2000	320000	720000	7424	336428	152922	0.00001	6		R 40x60	C32/40
2	750	625	625	39063	56250	742	336428	152922	0.00001	1.875		R 25x30	C32/40
3	2000	1667	1667	266667	416667	5291	336428	152922	0.00001	5		R 40x50	C32/40

6.4.2 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	Nodo I	Nodo J	Nodo K	Sezione	Indice	Nodo I	Nodo J	Nodo K	Sezione
				Indice					Indice					Indice					Indice
1	4616	4621	7815	1	2	4621	4623	7815	1	3	4623	4625	7815	1	4	4625	4627	7815	1
5	4627	4629	7815	1	6	4629	4631	7815	1	7	4631	4633	7815	1	8	4633	4636	7815	1
9	4636	4638	7815	1	10	4638	4640	7815	1	11	4640	4642	7815	1	12	4642	4644	7815	1
13	4590	4593	7815	1	14	4593	4594	7815	1	15	4594	4595	7815	1	16	4595	4596	7815	1
17	4596	4597	7815	1	18	4597	4598	7815	1	19	4598	4599	7815	1	20	4599	4600	7815	1
21	4600	4601	7815	1	22	4601	4602	7815	1	23	4602	4603	7815	1	24	4603	4604	7815	1
25	3763	3765	7815	1	26	3765	3766	7815	1	27	3766	3767	7815	1	28	3767	3768	7815	1
29	3768	3769	7815	1	30	3769	3770	7815	1	31	3770	3771	7815	1	32	3771	3772	7815	1
33	3772	3773	7815	1	34	3773	3774	7815	1	35	3774	3775	7815	1	36	3775	3776	7815	1
37	3807	3810	7815	1	38	3810	3811	7815	1	39	3811	3812	7815	1	40	3812	3813	7815	1
41	3813	3814	7815	1	42	3814	3815	7815	1	43	3815	3816	7815	1	44	3816	3817	7815	1
45	3817	3818	7815	1	46	3818	3819	7815	1	47	3819	3820	7815	1	48	3820	3821	7815	1
49	5184	5185	7815	2	50	5185	5186	7815	2	51	5186	5187	7815	2	52	5187	5188	7815	2
53	5188	5189	7815	2	54	5189	5190	7815	2	55	5190	5191	7815	2	56	5191	5192	7815	2
57	5192	5193	7815	2	58	5193	5194	7815	2	59	5194	5195	7815	2	60	5195	5196	7815	2
61	5196	5197	7815	2	62	5197	5198	7815	2	63	5198	5199	7815	2	64	5199	5200	7815	2
65	5200	5201	7815	2	66	5201	5202	7815	2	67	5202	5203	7815	2	68	5203	5204	7815	2
69	5204	5205	7815	2	70	5205	5206	7815	2	71	5206	5207	7815	2	72	5207	5208	7815	2
73	5208	5209	7815	2	74	5209	5210	7815	2	75	5210	5211	7815	2	76	5211	5212	7815	2
77	5212	5213	7815	2	78	5213	5214	7815	2	79	5214	5215	7815	2	80	5215	5216	7815	2
81	5216	5217	7815	2	82	5217	5218	7815	2	83	5218	5219	7815	2	84	5219	5220	7815	2
85	5221	5222	7815	2	86	5222	5223	7815	2	87	5223	5224	7815	2	88	5224	5225	7815	2
89	5225	5226	7815	2	90	5226	5227	7815	2	91	5227	5228	7815	2	92	5228	5229	7815	2
93	5229	5230	7815	2	94	5230	5231	7815	2	95	5231	5232	7815	2	96	5232	5233	7815	2
97	5233	5234	7815	2	98	5234	5235	7815	2	99	5235	5236	7815	2	100	5236	5237	7815	2
101	5237	5238	7815	2	102	5238	5239	7815	2	103	5239	5240	7815	2	104	5240	5241	7815	2
105	5241	5242	7815	2	106	5242	5243	7815	2	107	5243	5244	7815	2	108	5244	5245	7815	2
109	5245	5246	7815	2	110	5246	5247	7815	2	111	5247	5248	7815	2	112	5248	5249	7815	2
113	5249	5250	7815	2	114	5250	5251	7815	2	115	5251	5252	7815	2	116	5252	5253	7815	2
117	5253	5254	7815	2	118	5254	5255	7815	2	119	5255	5256	7815	2	120	5256	5257	7815	2
121	3182	3183	7815	2	122	3183	3184	7815	2	123	3184	3185	7815	2	124	3185	3186	7815	2
125	3186	3187	7815	2	126	3187	3188	7815	2	127	3188	3189	7815	2	128	3189	3190	7815	2
129	3190	3191	7815	2	130	3191	3192	7815	2	131	3192	3193	7815	2	132	3193	3194	7815	2
133	3194	3195	7815	2	134	3195	3196	7815	2	135	3196	3197	7815	2	136	3197	3198	7815	2
137	3198	3199	7815	2	138	3199	3200	7815	2	139	3200	3201	7815	2	140	3201	3202	7815	2
141	3202	3203	7815	2	142	3203	3204	7815	2	143	3204	3205	7815	2	144	3205	3206	7815	2
145	3206	3207	7815	2	146	3207	3208	7815	2	147	3208	3209	7815	2	148	3209	3210	7815	2
149	3210	3211	7815	2	150	3211	3212	7815	2	151	3212	3213	7815	2	152	3213	3214	7815	2
153	3214	3215	7815	2	154	3215	3216	7815	2	155	3216	3217	7815	2	156	3217	3218	7815	2
157	3219	3220	7815	2	158	3220	3221	7815	2	159	3221	3222	7815	2	160	3222	3223	7815	2
161	3223	3224	7815	2	162	3224	3225	7815	2	163	3225	3226	7815	2	164	3226	3227	7815	2
165	3227	3228	7815	2	166	3228	3229	7815	2	167	3229	3230	7815	2	168	3230	3231	7815	2
169	3231	3232	7815	2	170	3232	3233	7815	2	171	3233	3234	7815	2	172	3234	3235	7815	2
173	3235	3236	7815	2	174	3236	3237	7815	2	175	3237	3238	7815	2	176	3238	3239	7815	2
177	3239	3240	7815	2	178	3240	3241	7815	2	179	3241	3242	7815	2	180	3242	3243	7815	2
181	3243	3244	7815	2	182	3244	3245	7815	2	183	3245	3246	7815	2	184	3246	3247	7815	2
185	3247	3248	7815	2	186	3248	3249	7815	2	187	3249	3250	7815	2	188	3250	3251	7815	2
189	3251	3252	7815	2	190	3252	3253	7815	2	191	3253	3254	7815	2	192	3254	3255	7815	2
193	6588	6589	7815	3	194	6589	6590	7815	3	195	6590	6591	7815	3	196	6591	6592	7815	3

Indice	Nodo I	Nodo J	Nodo K	Sezione Indice	Indice	Nodo I	Nodo J	Nodo K	Sezione Indice	Indice	Nodo I	Nodo J	Nodo K	Sezione Indice	Indice	Nodo I	Nodo J	Nodo K	Sezione Indice
197	6592	6593	7815	3	198	6593	6594	7815	3	199	6594	6595	7815	3	200	6595	6596	7815	3
201	6596	6597	7815	3	202	6597	6598	7815	3	203	6598	6599	7815	3	204	6599	6600	7815	3
205	7271	7272	7815	3	206	7272	7273	7815	3	207	7273	7274	7815	3	208	7274	7275	7815	3
209	7275	7276	7815	3	210	7276	7277	7815	3	211	7277	7278	7815	3	212	7278	7279	7815	3
213	7279	7280	7815	3	214	7280	7281	7815	3	215	7281	7282	7815	3	216	7282	7283	7815	3
217	7308	7309	7815	3	218	7309	7310	7815	3	219	7310	7311	7815	3	220	7311	7312	7815	3
221	7312	7313	7815	3	222	7313	7314	7815	3	223	7314	7315	7815	3	224	7315	7316	7815	3
225	7316	7317	7815	3	226	7317	7318	7815	3	227	7318	7319	7815	3	228	7319	7320	7815	3
229	6551	6552	7815	3	230	6552	6553	7815	3	231	6553	6554	7815	3	232	6554	6555	7815	3
233	6555	6556	7815	3	234	6556	6557	7815	3	235	6557	6558	7815	3	236	6558	6559	7815	3
237	6559	6560	7815	3	238	6560	6561	7815	3	239	6561	6562	7815	3	240	6562	6563	7815	3
241	6563	6564	7815	3	242	6564	6565	7815	3	243	6565	6566	7815	3	244	6566	6567	7815	3
245	6567	6568	7815	3	246	6568	6569	7815	3	247	6569	6570	7815	3	248	6570	6571	7815	3
249	6571	6572	7815	3	250	6572	6573	7815	3	251	6573	6574	7815	3	252	6574	6575	7815	3
253	6575	6576	7815	3	254	6576	6577	7815	3	255	6577	6578	7815	3	256	6578	6579	7815	3
257	6579	6580	7815	3	258	6580	6581	7815	3	259	6581	6582	7815	3	260	6582	6583	7815	3
261	6583	6584	7815	3	262	6584	6585	7815	3	263	6585	6586	7815	3	264	6586	6587	7815	3
265	7283	7284	7815	3	266	7284	7285	7815	3	267	7285	7286	7815	3	268	7286	7287	7815	3
269	7287	7288	7815	3	270	7288	7289	7815	3	271	7289	7290	7815	3	272	7290	7291	7815	3
273	7291	7292	7815	3	274	7292	7293	7815	3	275	7293	7294	7815	3	276	7294	7295	7815	3
277	7295	7296	7815	3	278	7296	7297	7815	3	279	7297	7298	7815	3	280	7298	7299	7815	3
281	7299	7300	7815	3	282	7300	7301	7815	3	283	7301	7302	7815	3	284	7302	7303	7815	3
285	7303	7304	7815	3	286	7304	7305	7815	3	287	7305	7306	7815	3	288	7306	7307	7815	3
289	6600	6601	7815	3	290	6601	6602	7815	3	291	6602	6603	7815	3	292	6603	6604	7815	3
293	6604	6605	7815	3	294	6605	6606	7815	3	295	6606	6607	7815	3	296	6607	6608	7815	3
297	6608	6609	7815	3	298	6609	6610	7815	3	299	6610	6611	7815	3	300	6611	6612	7815	3
301	6612	6613	7815	3	302	6613	6614	7815	3	303	6614	6615	7815	3	304	6615	6616	7815	3
305	6616	6617	7815	3	306	6617	6618	7815	3	307	6618	6619	7815	3	308	6619	6620	7815	3
309	6620	6621	7815	3	310	6621	6622	7815	3	311	6622	6623	7815	3	312	6623	6624	7815	3
313	7320	7321	7815	3	314	7321	7322	7815	3	315	7322	7323	7815	3	316	7323	7324	7815	3
317	7324	7325	7815	3	318	7325	7326	7815	3	319	7326	7327	7815	3	320	7327	7328	7815	3
321	7328	7329	7815	3	322	7329	7330	7815	3	323	7330	7331	7815	3	324	7331	7332	7815	3
325	7332	7333	7815	3	326	7333	7334	7815	3	327	7334	7335	7815	3	328	7335	7336	7815	3
329	7336	7337	7815	3	330	7337	7338	7815	3	331	7338	7339	7815	3	332	7339	7340	7815	3
333	7340	7341	7815	3	334	7341	7342	7815	3	335	7342	7343	7815	3	336	7343	7344	7815	3
337	3776	3777	7815	1	338	3777	3778	7815	1	339	3778	3779	7815	1	340	3779	3780	7815	1
341	3780	3781	7815	1	342	3781	3782	7815	1	343	3782	3783	7815	1	344	3783	3784	7815	1
345	3784	3785	7815	1	346	3785	3786	7815	1	347	3786	3787	7815	1	348	3787	3788	7815	1
349	3788	3789	7815	1	350	3789	3790	7815	1	351	3790	3791	7815	1	352	3791	3792	7815	1
353	3792	3793	7815	1	354	3793	3794	7815	1	355	3794	3795	7815	1	356	3795	3796	7815	1
357	3796	3797	7815	1	358	3797	3798	7815	1	359	3798	3799	7815	1	360	3799	3801	7815	1
361	4644	4647	7815	1	362	4647	4649	7815	1	363	4649	4652	7815	1	364	4652	4654	7815	1
365	4654	4656	7815	1	366	4656	4657	7815	1	367	4657	4658	7815	1	368	4658	4659	7815	1
369	4659	4660	7815	1	370	4660	4661	7815	1	371	4661	4662	7815	1	372	4662	4663	7815	1
373	4663	4664	7815	1	374	4664	4665	7815	1	375	4665	4666	7815	1	376	4666	4667	7815	1
377	4667	4668	7815	1	378	4668	4669	7815	1	379	4669	4670	7815	1	380	4670	4671	7815	1
381	4671	4672	7815	1	382	4672	4673	7815	1	383	4673	4674	7815	1	384	4674	4677	7815	1
385	3821	3822	7815	1	386	3822	3823	7815	1	387	3823	3824	7815	1	388	3824	3825	7815	1
389	3825	3826	7815	1	390	3826	3827	7815	1	391	3827	3828	7815	1	392	3828	3829	7815	1
393	3829	3830	7815	1	394	3830	3831	7815	1	395	3831	3832	7815	1	396	3832	3833	7815	1
397	3833	3834	7815	1	398	3834	3835	7815	1	399	3835	3836	7815	1	400	3836	3837	7815	1
401	3837	3838	7815	1	402	3838	3839	7815	1	403	3839	3840	7815	1	404	3840	3841	7815	1
405	3841	3842	7815	1	406	3842	3843	7815	1	407	3843	3844	7815	1	408	3844	3846	7815	1
409	4622	4624	7815	1	410	4624	4626	7815	1	411	4626	4628	7815	1	412	4628	4630	7815	1
413	4630	4632	7815	1	414	4632	4634	7815	1	415	4634	4635	7815	1	416	4635	4637	7815	1
417	4637	4639	7815	1	418	4639	4641	7815	1	419	4641	4643	7815	1	420	4643	4646	7815	1
421	4604	4605	7815	1	422	4605	4606	7815	1	423	4606	4607	7815	1	424	4607	4608	7815	1
425	4608	4609	7815	1	426	4609	4610	7815	1	427	4610	4611	7815	1	428	4611	4612	7815	1
429	4612	4613	7815	1	430	4613	4619	7815	1	431	4619	4620	7815	1	432	4620	4622	7815	1

6.5 Masse

***Nodo**: nodo su cui è applicata la massa.*
***Massa X**: massa per la componente di spostamento lungo l'asse X. [daN/(cm/s²)]*
***Massa Y**: massa per la componente di spostamento lungo l'asse Y. [daN/(cm/s²)]*
***Massa Z**: massa per la componente di spostamento lungo l'asse Z. [daN/(cm/s²)]*
***Momento Z**: massa momento d'inerzia per la componente di rotazione attorno all'asse Z. [[daN/(cm/s²)]*cm²]*

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
1957	0.048	0.048	0	0	1958	0.048	0.048	0	0
1959	0.048	0.048	0	0	1960	0.047	0.047	0	0
1961	0.048	0.048	0	0	1962	0.048	0.048	0	0
1963	0.048	0.048	0	0	1964	0.048	0.048	0	0
1965	0.093	0.093	0	0	1966	0.096	0.096	0	0
1967	0.096	0.096	0	0	1968	0.092	0.092	0	0
1969	0.093	0.093	0	0	1970	0.096	0.096	0	0
1971	0.096	0.096	0	0	1972	0.097	0.097	0	0
1973	0.093	0.093	0	0	1974	0.096	0.096	0	0
1975	0.096	0.096	0	0	1976	0.092	0.092	0	0
1977	0.093	0.093	0	0	1978	0.096	0.096	0	0
1979	0.096	0.096	0	0	1980	0.098	0.098	0	0
1981	0.092	0.092	0	0	1982	0.096	0.096	0	0
1983	0.096	0.096	0	0	1984	0.091	0.091	0	0
1985	0.092	0.092	0	0	1986	0.096	0.096	0	0
1987	0.096	0.096	0	0	1988	0.098	0.098	0	0
1989	0.092	0.092	0	0	1990	0.096	0.096	0	0
1991	0.096	0.096	0	0	1992	0.091	0.091	0	0
1993	0.092	0.092	0	0	1994	0.096	0.096	0	0
1995	0.096	0.096	0	0	1996	0.098	0.098	0	0
1997	0.092	0.092	0	0	1998	0.096	0.096	0	0
1999	0.096	0.096	0	0	2000	0.091	0.091	0	0
2001	0.092	0.092	0	0	2002	0.096	0.096	0	0
2003	0.096	0.096	0	0	2004	0.098	0.098	0	0
2006	0.092	0.092	0	0	2007	0.096	0.096	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
2008	0.096	0.096	0	0	2009	0.091	0.091	0	0
2010	0.092	0.092	0	0	2011	0.096	0.096	0	0
2012	0.096	0.096	0	0	2013	0.098	0.098	0	0
2014	0.091	0.091	0	0	2015	0.096	0.096	0	0
2016	0.096	0.096	0	0	2017	0.09	0.09	0	0
2018	0.091	0.091	0	0	2019	0.096	0.096	0	0
2020	0.096	0.096	0	0	2021	0.098	0.098	0	0
2022	0.091	0.091	0	0	2023	0.096	0.096	0	0
2024	0.096	0.096	0	0	2025	0.09	0.09	0	0
2026	0.091	0.091	0	0	2027	0.096	0.096	0	0
2028	0.096	0.096	0	0	2029	0.098	0.098	0	0
2030	0.091	0.091	0	0	2031	0.096	0.096	0	0
2032	0.096	0.096	0	0	2033	0.089	0.089	0	0
2034	0.091	0.091	0	0	2035	0.096	0.096	0	0
2036	0.096	0.096	0	0	2037	0.098	0.098	0	0
2038	0.092	0.092	0	0	2039	0.096	0.096	0	0
2040	0.096	0.096	0	0	2041	0.092	0.092	0	0
2042	0.092	0.092	0	0	2043	0.096	0.096	0	0
2044	0.096	0.096	0	0	2045	0.097	0.097	0	0
2046	0.047	0.047	0	0	2047	0.048	0.048	0	0
2048	0.048	0.048	0	0	2049	0.047	0.047	0	0
2050	0.047	0.047	0	0	2051	0.048	0.048	0	0
2052	0.048	0.048	0	0	2053	0.048	0.048	0	0
2054	0.085	0.085	0	0	2055	0.17	0.17	0	0
2056	0.17	0.17	0	0	2057	0.17	0.17	0	0
2058	0.17	0.17	0	0	2059	0.17	0.17	0	0
2060	0.17	0.17	0	0	2061	0.17	0.17	0	0
2062	0.17	0.17	0	0	2063	0.17	0.17	0	0
2064	0.17	0.17	0	0	2065	0.17	0.17	0	0
2066	0.17	0.17	0	0	2067	0.17	0.17	0	0
2068	0.17	0.17	0	0	2069	0.17	0.17	0	0
2070	0.17	0.17	0	0	2071	0.17	0.17	0	0
2072	0.17	0.17	0	0	2073	0.17	0.17	0	0
2074	0.17	0.17	0	0	2075	0.17	0.17	0	0
2076	0.085	0.085	0	0	2077	0.183	0.183	0	0
2078	0.184	0.184	0	0	2079	0.186	0.186	0	0
2080	0.187	0.187	0	0	2081	0.187	0.187	0	0
2082	0.187	0.187	0	0	2083	0.187	0.187	0	0
2084	0.187	0.187	0	0	2085	0.186	0.186	0	0
2086	0.188	0.188	0	0	2087	0.188	0.188	0	0
2088	0.185	0.185	0	0	2089	0.185	0.185	0	0
2090	0.183	0.183	0	0	2091	0.183	0.183	0	0
2092	0.189	0.189	0	0	2093	0.189	0.189	0	0
2094	0.189	0.189	0	0	2095	0.189	0.189	0	0
2096	0.187	0.187	0	0	2097	0.187	0.187	0	0
2098	0.183	0.183	0	0	2099	0.183	0.183	0	0
2100	0.184	0.184	0	0	2101	0.186	0.186	0	0
2102	0.186	0.186	0	0	2103	0.182	0.182	0	0
2104	0.183	0.183	0	0	2105	0.186	0.186	0	0
2106	0.186	0.186	0	0	2107	0.193	0.193	0	0
2108	0.193	0.193	0	0	2109	0.193	0.193	0	0
2110	0.193	0.193	0	0	2111	0.193	0.193	0	0
2112	0.193	0.193	0	0	2113	0.193	0.193	0	0
2114	0.193	0.193	0	0	2115	0.193	0.193	0	0
2116	0.193	0.193	0	0	2117	0.193	0.193	0	0
2118	0.193	0.193	0	0	2119	0.193	0.193	0	0
2120	0.193	0.193	0	0	2121	0.193	0.193	0	0
2122	0.193	0.193	0	0	2123	0.193	0.193	0	0
2124	0.193	0.193	0	0	2125	0.193	0.193	0	0
2126	0.193	0.193	0	0	2127	0.193	0.193	0	0
2128	0.193	0.193	0	0	2129	0.193	0.193	0	0
2130	0.193	0.193	0	0	2131	0.193	0.193	0	0
2132	0.193	0.193	0	0	2133	0.193	0.193	0	0
2134	0.193	0.193	0	0	2135	0.193	0.193	0	0
2136	0.193	0.193	0	0	2137	0.193	0.193	0	0
2138	0.193	0.193	0	0	2139	0.193	0.193	0	0
2140	0.193	0.193	0	0	2141	0.193	0.193	0	0
2142	0.193	0.193	0	0	2143	0.193	0.193	0	0
2144	0.193	0.193	0	0	2145	0.193	0.193	0	0
2146	0.193	0.193	0	0	2147	0.094	0.094	0	0
2148	0.097	0.097	0	0	2149	0.097	0.097	0	0
2150	0.092	0.092	0	0	2151	0.094	0.094	0	0
2152	0.097	0.097	0	0	2153	0.097	0.097	0	0
2154	0.097	0.097	0	0	2155	0.091	0.091	0	0
2156	0.097	0.097	0	0	2157	0.097	0.097	0	0
2158	0.092	0.092	0	0	2159	0.091	0.091	0	0
2160	0.097	0.097	0	0	2161	0.097	0.097	0	0
2162	0.097	0.097	0	0	2163	0.195	0.195	0	0
2164	0.194	0.194	0	0	2165	0.196	0.196	0	0
2166	0.196	0.196	0	0	2167	0.197	0.197	0	0
2168	0.197	0.197	0	0	2169	0.197	0.197	0	0
2170	0.197	0.197	0	0	2171	0.197	0.197	0	0
2172	0.197	0.197	0	0	2173	0.085	0.085	0	0
2174	0.17	0.17	0	0	2175	0.17	0.17	0	0
2176	0.17	0.17	0	0	2177	0.17	0.17	0	0
2178	0.17	0.17	0	0	2179	0.17	0.17	0	0
2180	0.17	0.17	0	0	2181	0.17	0.17	0	0
2182	0.17	0.17	0	0	2183	0.17	0.17	0	0
2184	0.17	0.17	0	0	2185	0.17	0.17	0	0
2186	0.17	0.17	0	0	2187	0.17	0.17	0	0
2188	0.17	0.17	0	0	2189	0.17	0.17	0	0
2190	0.17	0.17	0	0	2191	0.17	0.17	0	0
2192	0.17	0.17	0	0	2193	0.17	0.17	0	0
2194	0.17	0.17	0	0	2195	0.085	0.085	0	0
2196	0.192	0.192	0	0	2197	0.188	0.188	0	0
2198	0.195	0.195	0	0	2199	0.194	0.194	0	0
2200	0.19	0.19	0	0	2201	0.19	0.19	0	0
2202	0.195	0.195	0	0	2203	0.191	0.191	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
2204	0.186	0.186	0	0	2205	0.186	0.186	0	0
2206	0.194	0.194	0	0	2207	0.194	0.194	0	0
2208	0.194	0.194	0	0	2209	0.195	0.195	0	0
2210	0.195	0.195	0	0	2211	0.192	0.192	0	0
2212	0.192	0.192	0	0	2213	0.195	0.195	0	0
2214	0.195	0.195	0	0	2215	0.185	0.185	0	0
2216	0.195	0.195	0	0	2217	0.195	0.195	0	0
2218	0.181	0.181	0	0	2219	0.181	0.181	0	0
2220	0.181	0.181	0	0	2221	0.187	0.187	0	0
2222	0.187	0.187	0	0	2223	0.18	0.18	0	0
2224	0.184	0.184	0	0	2225	0.184	0.184	0	0
2226	0.193	0.193	0	0	2227	0.193	0.193	0	0
2228	0.193	0.193	0	0	2229	0.193	0.193	0	0
2230	0.192	0.192	0	0	2231	0.192	0.192	0	0
2232	0.192	0.192	0	0	2233	0.192	0.192	0	0
2234	0.192	0.192	0	0	2235	0.192	0.192	0	0
2236	0.192	0.192	0	0	2237	0.192	0.192	0	0
2238	0.192	0.192	0	0	2239	0.192	0.192	0	0
2240	0.192	0.192	0	0	2241	0.192	0.192	0	0
2242	0.192	0.192	0	0	2243	0.192	0.192	0	0
2244	0.192	0.192	0	0	2245	0.192	0.192	0	0
2246	0.193	0.193	0	0	2247	0.193	0.193	0	0
2248	0.193	0.193	0	0	2249	0.193	0.193	0	0
2250	0.193	0.193	0	0	2251	0.193	0.193	0	0
2252	0.193	0.193	0	0	2253	0.193	0.193	0	0
2254	0.193	0.193	0	0	2255	0.193	0.193	0	0
2256	0.193	0.193	0	0	2257	0.193	0.193	0	0
2258	0.193	0.193	0	0	2259	0.193	0.193	0	0
2260	0.193	0.193	0	0	2261	0.193	0.193	0	0
2262	0.193	0.193	0	0	2263	0.193	0.193	0	0
2264	0.193	0.193	0	0	2265	0.193	0.193	0	0
2266	0.092	0.092	0	0	2267	0.097	0.097	0	0
2268	0.097	0.097	0	0	2269	0.088	0.088	0	0
2270	0.092	0.092	0	0	2271	0.097	0.097	0	0
2272	0.097	0.097	0	0	2273	0.097	0.097	0	0
2274	0.089	0.089	0	0	2275	0.097	0.097	0	0
2276	0.097	0.097	0	0	2277	0.09	0.09	0	0
2278	0.089	0.089	0	0	2279	0.097	0.097	0	0
2280	0.097	0.097	0	0	2281	0.097	0.097	0	0
2282	0.195	0.195	0	0	2283	0.195	0.195	0	0
2284	0.197	0.197	0	0	2285	0.197	0.197	0	0
2286	0.198	0.198	0	0	2287	0.198	0.198	0	0
2288	0.199	0.199	0	0	2289	0.199	0.199	0	0
2290	0.199	0.199	0	0	2291	0.199	0.199	0	0
2292	0.085	0.085	0	0	2293	0.17	0.17	0	0
2294	0.17	0.17	0	0	2295	0.17	0.17	0	0
2296	0.17	0.17	0	0	2297	0.17	0.17	0	0
2298	0.17	0.17	0	0	2299	0.17	0.17	0	0
2300	0.17	0.17	0	0	2301	0.17	0.17	0	0
2302	0.17	0.17	0	0	2303	0.17	0.17	0	0
2304	0.17	0.17	0	0	2305	0.17	0.17	0	0
2306	0.17	0.17	0	0	2307	0.17	0.17	0	0
2308	0.17	0.17	0	0	2309	0.17	0.17	0	0
2310	0.17	0.17	0	0	2311	0.17	0.17	0	0
2312	0.17	0.17	0	0	2313	0.17	0.17	0	0
2314	0.085	0.085	0	0	2315	0.203	0.203	0	0
2316	0.204	0.204	0	0	2317	0.204	0.204	0	0
2318	0.204	0.204	0	0	2319	0.194	0.194	0	0
2320	0.198	0.198	0	0	2321	0.198	0.198	0	0
2322	0.198	0.198	0	0	2323	0.203	0.203	0	0
2324	0.203	0.203	0	0	2325	0.203	0.203	0	0
2326	0.203	0.203	0	0	2327	0.203	0.203	0	0
2328	0.189	0.189	0	0	2329	0.189	0.189	0	0
2330	0.2	0.2	0	0	2331	0.2	0.2	0	0
2332	0.203	0.203	0	0	2333	0.203	0.203	0	0
2334	0.203	0.203	0	0	2335	0.203	0.203	0	0
2336	0.188	0.188	0	0	2337	0.191	0.191	0	0
2338	0.191	0.191	0	0	2339	0.181	0.181	0	0
2340	0.177	0.177	0	0	2341	0.177	0.177	0	0
2342	0.177	0.177	0	0	2343	0.182	0.182	0	0
2344	0.182	0.182	0	0	2345	0.192	0.192	0	0
2346	0.192	0.192	0	0	2347	0.192	0.192	0	0
2348	0.192	0.192	0	0	2349	0.192	0.192	0	0
2350	0.192	0.192	0	0	2351	0.192	0.192	0	0
2352	0.192	0.192	0	0	2353	0.192	0.192	0	0
2354	0.192	0.192	0	0	2355	0.192	0.192	0	0
2356	0.192	0.192	0	0	2357	0.192	0.192	0	0
2358	0.192	0.192	0	0	2359	0.192	0.192	0	0
2360	0.192	0.192	0	0	2361	0.192	0.192	0	0
2362	0.192	0.192	0	0	2363	0.192	0.192	0	0
2364	0.192	0.192	0	0	2365	0.192	0.192	0	0
2366	0.192	0.192	0	0	2367	0.192	0.192	0	0
2368	0.192	0.192	0	0	2369	0.193	0.193	0	0
2370	0.193	0.193	0	0	2371	0.193	0.193	0	0
2372	0.193	0.193	0	0	2373	0.193	0.193	0	0
2374	0.193	0.193	0	0	2375	0.193	0.193	0	0
2376	0.193	0.193	0	0	2377	0.193	0.193	0	0
2378	0.193	0.193	0	0	2379	0.193	0.193	0	0
2380	0.193	0.193	0	0	2381	0.193	0.193	0	0
2382	0.193	0.193	0	0	2383	0.193	0.193	0	0
2384	0.193	0.193	0	0	2385	0.09	0.09	0	0
2386	0.097	0.097	0	0	2387	0.097	0.097	0	0
2388	0.085	0.085	0	0	2389	0.09	0.09	0	0
2390	0.097	0.097	0	0	2391	0.097	0.097	0	0
2392	0.098	0.098	0	0	2393	0.086	0.086	0	0
2394	0.097	0.097	0	0	2395	0.097	0.097	0	0
2396	0.088	0.088	0	0	2397	0.086	0.086	0	0
2398	0.097	0.097	0	0	2399	0.097	0.097	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
2400	0.098	0.098	0	0	2401	0.197	0.197	0	0
2402	0.197	0.197	0	0	2403	0.199	0.199	0	0
2404	0.199	0.199	0	0	2405	0.201	0.201	0	0
2406	0.2	0.2	0	0	2407	0.201	0.201	0	0
2408	0.201	0.201	0	0	2409	0.202	0.202	0	0
2410	0.202	0.202	0	0	2411	0.042	0.042	0	0
2412	0.085	0.085	0	0	2413	0.085	0.085	0	0
2414	0.085	0.085	0	0	2415	0.085	0.085	0	0
2416	0.085	0.085	0	0	2417	0.085	0.085	0	0
2418	0.085	0.085	0	0	2419	0.085	0.085	0	0
2420	0.085	0.085	0	0	2421	0.085	0.085	0	0
2422	0.085	0.085	0	0	2423	0.085	0.085	0	0
2424	0.085	0.085	0	0	2425	0.085	0.085	0	0
2426	0.085	0.085	0	0	2427	0.085	0.085	0	0
2428	0.085	0.085	0	0	2429	0.085	0.085	0	0
2430	0.085	0.085	0	0	2431	0.085	0.085	0	0
2432	0.085	0.085	0	0	2433	0.042	0.042	0	0
2434	0.217	0.217	0	0	2435	0.214	0.214	0	0
2436	0.214	0.214	0	0	2437	0.216	0.216	0	0
2438	0.215	0.215	0	0	2439	0.214	0.214	0	0
2440	0.214	0.214	0	0	2441	0.216	0.216	0	0
2442	0.216	0.216	0	0	2443	0.211	0.211	0	0
2444	0.211	0.211	0	0	2445	0.209	0.209	0	0
2446	0.209	0.209	0	0	2447	0.212	0.212	0	0
2448	0.212	0.212	0	0	2449	0.207	0.207	0	0
2450	0.21	0.21	0	0	2451	0.21	0.21	0	0
2452	0.192	0.192	0	0	2453	0.192	0.192	0	0
2454	0.19	0.19	0	0	2455	0.202	0.202	0	0
2456	0.197	0.197	0	0	2457	0.197	0.197	0	0
2458	0.171	0.171	0	0	2459	0.171	0.171	0	0
2460	0.172	0.172	0	0	2461	0.179	0.179	0	0
2462	0.181	0.181	0	0	2463	0.181	0.181	0	0
2464	0.191	0.191	0	0	2465	0.191	0.191	0	0
2466	0.191	0.191	0	0	2467	0.191	0.191	0	0
2468	0.191	0.191	0	0	2469	0.191	0.191	0	0
2470	0.191	0.191	0	0	2471	0.191	0.191	0	0
2472	0.191	0.191	0	0	2473	0.191	0.191	0	0
2474	0.191	0.191	0	0	2475	0.191	0.191	0	0
2476	0.191	0.191	0	0	2477	0.191	0.191	0	0
2478	0.191	0.191	0	0	2479	0.191	0.191	0	0
2480	0.191	0.191	0	0	2481	0.191	0.191	0	0
2482	0.191	0.191	0	0	2483	0.191	0.191	0	0
2484	0.191	0.191	0	0	2485	0.191	0.191	0	0
2486	0.191	0.191	0	0	2487	0.191	0.191	0	0
2488	0.192	0.192	0	0	2489	0.192	0.192	0	0
2490	0.192	0.192	0	0	2491	0.192	0.192	0	0
2492	0.192	0.192	0	0	2493	0.192	0.192	0	0
2494	0.192	0.192	0	0	2495	0.192	0.192	0	0
2496	0.193	0.193	0	0	2497	0.193	0.193	0	0
2498	0.193	0.193	0	0	2499	0.193	0.193	0	0
2500	0.193	0.193	0	0	2501	0.193	0.193	0	0
2502	0.193	0.193	0	0	2503	0.193	0.193	0	0
2504	0.087	0.087	0	0	2505	0.097	0.097	0	0
2506	0.097	0.097	0	0	2507	0.082	0.082	0	0
2508	0.087	0.087	0	0	2509	0.097	0.097	0	0
2510	0.097	0.097	0	0	2511	0.099	0.099	0	0
2512	0.081	0.081	0	0	2513	0.097	0.097	0	0
2514	0.097	0.097	0	0	2515	0.085	0.085	0	0
2516	0.081	0.081	0	0	2517	0.097	0.097	0	0
2518	0.097	0.097	0	0	2519	0.098	0.098	0	0
2520	0.199	0.199	0	0	2521	0.199	0.199	0	0
2522	0.203	0.203	0	0	2523	0.202	0.202	0	0
2524	0.204	0.204	0	0	2525	0.204	0.204	0	0
2526	0.205	0.205	0	0	2527	0.205	0.205	0	0
2528	0.205	0.205	0	0	2529	0.205	0.205	0	0
2530	0.218	0.218	0	0	2531	0.222	0.222	0	0
2532	0.215	0.215	0	0	2533	0.215	0.215	0	0
2534	0.223	0.223	0	0	2535	0.219	0.219	0	0
2536	0.219	0.219	0	0	2537	0.218	0.218	0	0
2538	0.218	0.218	0	0	2539	0.189	0.189	0	0
2540	0.189	0.189	0	0	2541	0.191	0.191	0	0
2542	0.163	0.163	0	0	2543	0.161	0.161	0	0
2544	0.161	0.161	0	0	2545	0.225	0.225	0	0
2546	0.234	0.234	0	0	2547	0.234	0.234	0	0
2548	0.219	0.219	0	0	2549	0.219	0.219	0	0
2550	0.231	0.231	0	0	2551	0.19	0.19	0	0
2552	0.19	0.19	0	0	2553	0.19	0.19	0	0
2554	0.19	0.19	0	0	2555	0.19	0.19	0	0
2556	0.19	0.19	0	0	2557	0.19	0.19	0	0
2558	0.19	0.19	0	0	2559	0.189	0.189	0	0
2560	0.189	0.189	0	0	2561	0.189	0.189	0	0
2562	0.189	0.189	0	0	2563	0.189	0.189	0	0
2564	0.189	0.189	0	0	2565	0.189	0.189	0	0
2566	0.189	0.189	0	0	2567	0.189	0.189	0	0
2568	0.189	0.189	0	0	2569	0.189	0.189	0	0
2570	0.189	0.189	0	0	2571	0.189	0.189	0	0
2572	0.189	0.189	0	0	2573	0.189	0.189	0	0
2574	0.189	0.189	0	0	2575	0.191	0.191	0	0
2576	0.191	0.191	0	0	2577	0.191	0.191	0	0
2578	0.191	0.191	0	0	2579	0.191	0.191	0	0
2580	0.191	0.191	0	0	2581	0.191	0.191	0	0
2582	0.191	0.191	0	0	2583	0.192	0.192	0	0
2584	0.192	0.192	0	0	2585	0.192	0.192	0	0
2586	0.192	0.192	0	0	2587	0.192	0.192	0	0
2588	0.192	0.192	0	0	2589	0.192	0.192	0	0
2590	0.192	0.192	0	0	2591	0.083	0.083	0	0
2592	0.097	0.097	0	0	2593	0.097	0.097	0	0
2594	0.076	0.076	0	0	2595	0.083	0.083	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
2596	0.097	0.097	0	0	2597	0.097	0.097	0	0
2598	0.1	0.1	0	0	2599	0.074	0.074	0	0
2600	0.097	0.097	0	0	2601	0.097	0.097	0	0
2602	0.081	0.081	0	0	2603	0.074	0.074	0	0
2604	0.097	0.097	0	0	2605	0.097	0.097	0	0
2606	0.1	0.1	0	0	2607	0.225	0.225	0	0
2608	0.225	0.225	0	0	2609	0.172	0.172	0	0
2610	0.219	0.219	0	0	2611	0.178	0.178	0	0
2612	0.178	0.178	0	0	2613	0.212	0.212	0	0
2614	0.214	0.214	0	0	2615	0.214	0.214	0	0
2616	0.204	0.204	0	0	2617	0.203	0.203	0	0
2618	0.208	0.208	0	0	2619	0.207	0.207	0	0
2620	0.209	0.209	0	0	2621	0.209	0.209	0	0
2622	0.209	0.209	0	0	2623	0.209	0.209	0	0
2624	0.209	0.209	0	0	2625	0.209	0.209	0	0
2626	0.137	0.137	0	0	2627	0.137	0.137	0	0
2628	0.137	0.137	0	0	2629	0.207	0.207	0	0
2630	0.205	0.205	0	0	2631	0.205	0.205	0	0
2632	0.209	0.209	0	0	2633	0.157	0.157	0	0
2634	0.157	0.157	0	0	2635	0.155	0.155	0	0
2636	0.21	0.21	0	0	2637	0.21	0.21	0	0
2638	0.186	0.186	0	0	2639	0.186	0.186	0	0
2640	0.186	0.186	0	0	2641	0.186	0.186	0	0
2642	0.186	0.186	0	0	2643	0.186	0.186	0	0
2644	0.186	0.186	0	0	2645	0.186	0.186	0	0
2646	0.187	0.187	0	0	2647	0.187	0.187	0	0
2648	0.187	0.187	0	0	2649	0.187	0.187	0	0
2650	0.187	0.187	0	0	2651	0.187	0.187	0	0
2652	0.187	0.187	0	0	2653	0.187	0.187	0	0
2654	0.186	0.186	0	0	2655	0.186	0.186	0	0
2656	0.186	0.186	0	0	2657	0.186	0.186	0	0
2658	0.186	0.186	0	0	2659	0.186	0.186	0	0
2660	0.186	0.186	0	0	2661	0.186	0.186	0	0
2662	0.186	0.186	0	0	2663	0.186	0.186	0	0
2664	0.186	0.186	0	0	2665	0.186	0.186	0	0
2666	0.186	0.186	0	0	2667	0.186	0.186	0	0
2668	0.186	0.186	0	0	2669	0.186	0.186	0	0
2670	0.206	0.206	0	0	2671	0.209	0.209	0	0
2672	0.206	0.206	0	0	2673	0.19	0.19	0	0
2674	0.19	0.19	0	0	2675	0.19	0.19	0	0
2676	0.19	0.19	0	0	2677	0.19	0.19	0	0
2678	0.19	0.19	0	0	2679	0.19	0.19	0	0
2680	0.19	0.19	0	0	2681	0.072	0.072	0	0
2682	0.096	0.096	0	0	2683	0.096	0.096	0	0
2684	0.07	0.07	0	0	2685	0.072	0.072	0	0
2686	0.096	0.096	0	0	2687	0.096	0.096	0	0
2688	0.103	0.103	0	0	2689	0.067	0.067	0	0
2690	0.097	0.097	0	0	2691	0.097	0.097	0	0
2692	0.069	0.069	0	0	2693	0.068	0.068	0	0
2694	0.097	0.097	0	0	2695	0.097	0.097	0	0
2696	0.102	0.102	0	0	2697	0.145	0.145	0	0
2698	0.148	0.148	0	0	2699	0.148	0.148	0	0
2700	0.219	0.219	0	0	2701	0.218	0.218	0	0
2702	0.218	0.218	0	0	2703	0.211	0.211	0	0
2704	0.211	0.211	0	0	2705	0.212	0.212	0	0
2706	0.212	0.212	0	0	2707	0.211	0.211	0	0
2708	0.213	0.213	0	0	2709	0.213	0.213	0	0
2710	0.221	0.221	0	0	2711	0.206	0.206	0	0
2712	0.21	0.21	0	0	2713	0.21	0.21	0	0
2714	0.215	0.215	0	0	2715	0.215	0.215	0	0
2716	0.214	0.214	0	0	2717	0.214	0.214	0	0
2718	0.213	0.213	0	0	2719	0.213	0.213	0	0
2720	0.213	0.213	0	0	2721	0.213	0.213	0	0
2722	0.097	0.097	0	0	2723	0.097	0.097	0	0
2724	0.099	0.099	0	0	2725	0.076	0.076	0	0
2726	0.076	0.076	0	0	2727	0.077	0.077	0	0
2728	0.102	0.102	0	0	2729	0.102	0.102	0	0
2730	0.069	0.069	0	0	2731	0.117	0.117	0	0
2732	0.086	0.086	0	0	2733	0.072	0.072	0	0
2734	0.072	0.072	0	0	2735	0.099	0.099	0	0
2736	0.099	0.099	0	0	2737	0.183	0.183	0	0
2738	0.184	0.184	0	0	2739	0.184	0.184	0	0
2740	0.184	0.184	0	0	2741	0.184	0.184	0	0
2742	0.184	0.184	0	0	2743	0.183	0.183	0	0
2744	0.182	0.182	0	0	2745	0.182	0.182	0	0
2746	0.181	0.181	0	0	2747	0.181	0.181	0	0
2748	0.181	0.181	0	0	2749	0.181	0.181	0	0
2750	0.181	0.181	0	0	2751	0.181	0.181	0	0
2752	0.181	0.181	0	0	2753	0.181	0.181	0	0
2754	0.182	0.182	0	0	2755	0.182	0.182	0	0
2756	0.182	0.182	0	0	2757	0.182	0.182	0	0
2758	0.181	0.181	0	0	2759	0.181	0.181	0	0
2760	0.181	0.181	0	0	2761	0.181	0.181	0	0
2762	0.182	0.182	0	0	2763	0.182	0.182	0	0
2764	0.182	0.182	0	0	2765	0.182	0.182	0	0
2766	0.182	0.182	0	0	2767	0.182	0.182	0	0
2768	0.182	0.182	0	0	2769	0.182	0.182	0	0
2770	0.182	0.182	0	0	2771	0.182	0.182	0	0
2772	0.182	0.182	0	0	2773	0.182	0.182	0	0
2774	0.183	0.183	0	0	2775	0.183	0.183	0	0
2776	0.183	0.183	0	0	2777	0.183	0.183	0	0
2778	0.182	0.182	0	0	2779	0.182	0.182	0	0
2780	0.182	0.182	0	0	2781	0.182	0.182	0	0
2782	0.182	0.182	0	0	2783	0.182	0.182	0	0
2784	0.182	0.182	0	0	2785	0.182	0.182	0	0
2786	0.18	0.18	0	0	2787	0.18	0.18	0	0
2788	0.187	0.187	0	0	2789	0.177	0.177	0	0
2790	0.182	0.182	0	0	2791	0.182	0.182	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
2792	0.086	0.086	0	0	2793	0.129	0.129	0	0
2794	0.129	0.129	0	0	2795	0.089	0.089	0	0
2796	0.086	0.086	0	0	2797	0.129	0.129	0	0
2798	0.129	0.129	0	0	2799	0.229	0.229	0	0
2800	0.071	0.071	0	0	2801	0.131	0.131	0	0
2802	0.131	0.131	0	0	2803	0.067	0.067	0	0
2804	0.071	0.071	0	0	2805	0.131	0.131	0	0
2806	0.131	0.131	0	0	2807	0.228	0.228	0	0
2808	0.159	0.159	0	0	2809	0.159	0.159	0	0
2810	0.155	0.155	0	0	2811	0.151	0.151	0	0
2812	0.07	0.07	0	0	2813	0.07	0.07	0	0
2814	0.07	0.07	0	0	2815	0.07	0.07	0	0
2816	0.068	0.068	0	0	2817	0.068	0.068	0	0
2818	0.068	0.068	0	0	2819	0.068	0.068	0	0
2820	0.148	0.148	0	0	2821	0.148	0.148	0	0
2822	0.081	0.081	0	0	2823	0.081	0.081	0	0
2824	0.081	0.081	0	0	2825	0.164	0.164	0	0
2826	0.044	0.044	0	0	2827	0.044	0.044	0	0
2828	0.044	0.044	0	0	2829	0.164	0.164	0	0
2830	0.063	0.063	0	0	2831	0.063	0.063	0	0
2832	0.063	0.063	0	0	2833	0.063	0.063	0	0
2834	0.03	0.03	0	0	2835	0.03	0.03	0	0
2836	0.03	0.03	0	0	2837	0.03	0.03	0	0
2838	0.241	0.241	0	0	2839	0.239	0.239	0	0
2840	0.101	0.101	0	0	2841	0.101	0.101	0	0
2842	0.097	0.097	0	0	2843	0.072	0.072	0	0
2844	0.072	0.072	0	0	2845	0.072	0.072	0	0
2846	0.148	0.148	0	0	2847	0.071	0.071	0	0
2848	0.071	0.071	0	0	2849	0.071	0.071	0	0
2850	0.148	0.148	0	0	2851	0.09	0.09	0	0
2852	0.093	0.093	0	0	2853	0.093	0.093	0	0
2854	0.087	0.087	0	0	2855	0.087	0.087	0	0
2856	0.226	0.226	0	0	2857	0.225	0.225	0	0
2858	0.056	0.056	0	0	2859	0.056	0.056	0	0
2860	0.056	0.056	0	0	2861	0.056	0.056	0	0
2862	0.028	0.028	0	0	2863	0.028	0.028	0	0
2864	0.028	0.028	0	0	2865	0.028	0.028	0	0
2866	0.093	0.093	0	0	2867	0.083	0.083	0	0
2868	0.083	0.083	0	0	2869	0.22	0.22	0	0
2870	0.22	0.22	0	0	2871	0.076	0.076	0	0
2872	0.217	0.217	0	0	2873	0.217	0.217	0	0
2874	0.215	0.215	0	0	2875	0.215	0.215	0	0
2876	0.058	0.058	0	0	2877	0.058	0.058	0	0
2878	0.058	0.058	0	0	2879	0.132	0.132	0	0
2880	0.073	0.073	0	0	2881	0.073	0.073	0	0
2882	0.073	0.073	0	0	2883	0.132	0.132	0	0
2884	0.082	0.082	0	0	2885	0.082	0.082	0	0
2886	0.09	0.09	0	0	2887	0.08	0.08	0	0
2888	0.08	0.08	0	0	2889	0.077	0.077	0	0
2890	0.049	0.049	0	0	2891	0.049	0.049	0	0
2892	0.049	0.049	0	0	2893	0.049	0.049	0	0
2894	0.05	0.05	0	0	2895	0.05	0.05	0	0
2896	0.05	0.05	0	0	2897	0.05	0.05	0	0
2898	0.076	0.076	0	0	2899	0.077	0.077	0	0
2900	0.077	0.077	0	0	2901	0.052	0.052	0	0
2902	0.052	0.052	0	0	2903	0.052	0.052	0	0
2904	0.052	0.052	0	0	2905	0.053	0.053	0	0
2906	0.053	0.053	0	0	2907	0.053	0.053	0	0
2908	0.116	0.116	0	0	2909	0.063	0.063	0	0
2910	0.063	0.063	0	0	2911	0.063	0.063	0	0
2912	0.116	0.116	0	0	2913	0.046	0.046	0	0
2914	0.046	0.046	0	0	2915	0.046	0.046	0	0
2916	0.046	0.046	0	0	2917	0.053	0.053	0	0
2918	0.053	0.053	0	0	2919	0.053	0.053	0	0
2920	0.053	0.053	0	0	2921	0.045	0.045	0	0
2922	0.045	0.045	0	0	2923	0.045	0.045	0	0
2924	0.045	0.045	0	0	2925	0.113	0.113	0	0
2926	0.111	0.111	0	0	2927	0.111	0.111	0	0
2928	0.166	0.166	0	0	2929	0.165	0.165	0	0
2930	0.165	0.165	0	0	2931	0.164	0.164	0	0
2932	0.164	0.164	0	0	2933	0.163	0.163	0	0
2934	0.162	0.162	0	0	2935	0.16	0.16	0	0
2936	0.16	0.16	0	0	2937	0.157	0.157	0	0
2938	0.157	0.157	0	0	2939	0.043	0.043	0	0
2940	0.036	0.036	0	0	2941	0.036	0.036	0	0
2942	0.043	0.043	0	0	2943	0.043	0.043	0	0
2944	0.036	0.036	0	0	2945	0.036	0.036	0	0
2946	0.052	0.052	0	0	2947	0.068	0.068	0	0
2948	0.063	0.063	0	0	2949	0.063	0.063	0	0
2950	0.068	0.068	0	0	2951	0.068	0.068	0	0
2952	0.063	0.063	0	0	2953	0.063	0.063	0	0
2954	0.052	0.052	0	0	2955	0.155	0.155	0	0
2956	0.169	0.169	0	0	2957	0.169	0.169	0	0
2958	0.169	0.169	0	0	2959	0.169	0.169	0	0
2960	0.168	0.168	0	0	2961	0.168	0.168	0	0
2962	0.168	0.168	0	0	2963	0.168	0.168	0	0
2964	0.153	0.153	0	0	2965	0.172	0.172	0	0
2966	0.172	0.172	0	0	2967	0.172	0.172	0	0
2968	0.172	0.172	0	0	2969	0.172	0.172	0	0
2970	0.172	0.172	0	0	2971	0.172	0.172	0	0
2972	0.172	0.172	0	0	2973	0.177	0.177	0	0
2974	0.177	0.177	0	0	2975	0.177	0.177	0	0
2976	0.177	0.177	0	0	2977	0.177	0.177	0	0
2978	0.177	0.177	0	0	2979	0.177	0.177	0	0
2980	0.177	0.177	0	0	2981	0.15	0.15	0	0
2982	0.15	0.15	0	0	2983	0.141	0.141	0	0
2984	0.141	0.141	0	0	2985	0.179	0.179	0	0
2986	0.179	0.179	0	0	2987	0.179	0.179	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
2988	0.179	0.179	0	0	2989	0.179	0.179	0	0
2990	0.179	0.179	0	0	2991	0.179	0.179	0	0
2992	0.179	0.179	0	0	2993	0.179	0.179	0	0
2994	0.179	0.179	0	0	2995	0.179	0.179	0	0
2996	0.179	0.179	0	0	2997	0.179	0.179	0	0
2998	0.179	0.179	0	0	2999	0.179	0.179	0	0
3000	0.179	0.179	0	0	3001	0.133	0.133	0	0
3002	0.155	0.155	0	0	3003	0.155	0.155	0	0
3004	0.155	0.155	0	0	3005	0.155	0.155	0	0
3006	0.168	0.168	0	0	3007	0.168	0.168	0	0
3008	0.168	0.168	0	0	3009	0.168	0.168	0	0
3010	0.188	0.188	0	0	3011	0.188	0.188	0	0
3012	0.188	0.188	0	0	3013	0.188	0.188	0	0
3014	0.132	0.132	0	0	3015	0.123	0.123	0	0
3016	0.123	0.123	0	0	3017	0.154	0.154	0	0
3018	0.154	0.154	0	0	3019	0.154	0.154	0	0
3020	0.154	0.154	0	0	3021	0.115	0.115	0	0
3022	0.115	0.115	0	0	3023	0.151	0.151	0	0
3024	0.151	0.151	0	0	3025	0.151	0.151	0	0
3026	0.114	0.114	0	0	3027	0.099	0.099	0	0
3028	0.094	0.094	0	0	3029	0.094	0.094	0	0
3030	0.147	0.147	0	0	3031	0.147	0.147	0	0
3032	0.147	0.147	0	0	3033	0.147	0.147	0	0
3034	0.158	0.158	0	0	3035	0.137	0.137	0	0
3036	0.137	0.137	0	0	3037	0.137	0.137	0	0
3038	0.137	0.137	0	0	3039	0.157	0.157	0	0
3040	0.157	0.157	0	0	3041	0.096	0.096	0	0
3042	0.096	0.096	0	0	3043	0.09	0.09	0	0
3044	0.084	0.084	0	0	3045	0.086	0.086	0	0
3046	0.086	0.086	0	0	3047	0.149	0.149	0	0
3048	0.149	0.149	0	0	3049	0.149	0.149	0	0
3050	0.106	0.106	0	0	3051	0.108	0.108	0	0
3052	0.108	0.108	0	0	3053	0.122	0.122	0	0
3054	0.122	0.122	0	0	3055	0.122	0.122	0	0
3056	0.122	0.122	0	0	3057	0.149	0.149	0	0
3058	0.149	0.149	0	0	3059	0.149	0.149	0	0
3060	0.075	0.075	0	0	3061	0.075	0.075	0	0
3062	0.116	0.116	0	0	3063	0.116	0.116	0	0
3064	0.116	0.116	0	0	3065	0.076	0.076	0	0
3066	0.102	0.102	0	0	3067	0.102	0.102	0	0
3068	0.102	0.102	0	0	3069	0.102	0.102	0	0
3070	0.09	0.09	0	0	3071	0.09	0.09	0	0
3072	0.09	0.09	0	0	3073	0.117	0.117	0	0
3074	0.117	0.117	0	0	3075	0.117	0.117	0	0
3076	0.117	0.117	0	0	3077	0.116	0.116	0	0
3078	0.116	0.116	0	0	3079	0.116	0.116	0	0
3080	0.077	0.077	0	0	3081	0.077	0.077	0	0
3082	0.077	0.077	0	0	3083	0.077	0.077	0	0
3084	0.076	0.076	0	0	3085	0.075	0.075	0	0
3086	0.075	0.075	0	0	3087	0.088	0.088	0	0
3088	0.088	0.088	0	0	3089	0.088	0.088	0	0
3090	0.088	0.088	0	0	3091	0.09	0.09	0	0
3092	0.09	0.09	0	0	3093	0.09	0.09	0	0
3094	0.08	0.08	0	0	3095	0.079	0.079	0	0
3096	0.079	0.079	0	0	3097	0.047	0.047	0	0
3098	0.094	0.094	0	0	3099	0.109	0.109	0	0
3100	0.124	0.124	0	0	3101	0.124	0.124	0	0
3102	0.124	0.124	0	0	3103	0.124	0.124	0	0
3104	0.124	0.124	0	0	3105	0.124	0.124	0	0
3106	0.124	0.124	0	0	3107	0.124	0.124	0	0
3108	0.124	0.124	0	0	3109	0.124	0.124	0	0
3110	0.124	0.124	0	0	3111	0.123	0.123	0	0
3112	0.121	0.121	0	0	3113	0.121	0.121	0	0
3114	0.121	0.121	0	0	3115	0.121	0.121	0	0
3116	0.121	0.121	0	0	3117	0.121	0.121	0	0
3118	0.121	0.121	0	0	3119	0.121	0.121	0	0
3120	0.121	0.121	0	0	3121	0.121	0.121	0	0
3122	0.121	0.121	0	0	3123	0.123	0.123	0	0
3124	0.124	0.124	0	0	3125	0.124	0.124	0	0
3126	0.124	0.124	0	0	3127	0.124	0.124	0	0
3128	0.124	0.124	0	0	3129	0.124	0.124	0	0
3130	0.124	0.124	0	0	3131	0.124	0.124	0	0
3132	0.124	0.124	0	0	3133	0.124	0.124	0	0
3134	0.124	0.124	0	0	3135	0.109	0.109	0	0
3136	0.094	0.094	0	0	3137	0.047	0.047	0	0
3138	0.047	0.047	0	0	3139	0.094	0.094	0	0
3140	0.109	0.109	0	0	3141	0.124	0.124	0	0
3142	0.124	0.124	0	0	3143	0.124	0.124	0	0
3144	0.124	0.124	0	0	3145	0.124	0.124	0	0
3146	0.124	0.124	0	0	3147	0.124	0.124	0	0
3148	0.124	0.124	0	0	3149	0.124	0.124	0	0
3150	0.124	0.124	0	0	3151	0.124	0.124	0	0
3152	0.123	0.123	0	0	3153	0.121	0.121	0	0
3154	0.121	0.121	0	0	3155	0.121	0.121	0	0
3156	0.121	0.121	0	0	3157	0.121	0.121	0	0
3158	0.121	0.121	0	0	3159	0.121	0.121	0	0
3160	0.121	0.121	0	0	3161	0.121	0.121	0	0
3162	0.121	0.121	0	0	3163	0.121	0.121	0	0
3164	0.121	0.121	0	0	3165	0.121	0.121	0	0
3166	0.121	0.121	0	0	3167	0.121	0.121	0	0
3168	0.121	0.121	0	0	3169	0.121	0.121	0	0
3170	0.121	0.121	0	0	3171	0.121	0.121	0	0
3172	0.121	0.121	0	0	3173	0.121	0.121	0	0
3174	0.121	0.121	0	0	3175	0.121	0.121	0	0
3176	0.124	0.124	0	0	3177	0.125	0.125	0	0
3178	0.121	0.121	0	0	3179	0.117	0.117	0	0
3180	0.114	0.114	0	0	3181	0.056	0.056	0	0
3182	0.048	0.048	0	0	3183	0.097	0.097	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
3184	0.097	0.097	0	0	3185	0.097	0.097	0	0
3186	0.097	0.097	0	0	3187	0.097	0.097	0	0
3188	0.097	0.097	0	0	3189	0.097	0.097	0	0
3190	0.097	0.097	0	0	3191	0.097	0.097	0	0
3192	0.097	0.097	0	0	3193	0.097	0.097	0	0
3194	0.095	0.095	0	0	3195	0.094	0.094	0	0
3196	0.094	0.094	0	0	3197	0.094	0.094	0	0
3198	0.094	0.094	0	0	3199	0.094	0.094	0	0
3200	0.094	0.094	0	0	3201	0.094	0.094	0	0
3202	0.094	0.094	0	0	3203	0.094	0.094	0	0
3204	0.094	0.094	0	0	3205	0.094	0.094	0	0
3206	0.095	0.095	0	0	3207	0.097	0.097	0	0
3208	0.097	0.097	0	0	3209	0.097	0.097	0	0
3210	0.097	0.097	0	0	3211	0.097	0.097	0	0
3212	0.097	0.097	0	0	3213	0.097	0.097	0	0
3214	0.097	0.097	0	0	3215	0.097	0.097	0	0
3216	0.097	0.097	0	0	3217	0.097	0.097	0	0
3218	0.048	0.048	0	0	3219	0.048	0.048	0	0
3220	0.097	0.097	0	0	3221	0.097	0.097	0	0
3222	0.097	0.097	0	0	3223	0.097	0.097	0	0
3224	0.097	0.097	0	0	3225	0.097	0.097	0	0
3226	0.097	0.097	0	0	3227	0.097	0.097	0	0
3228	0.097	0.097	0	0	3229	0.097	0.097	0	0
3230	0.097	0.097	0	0	3231	0.095	0.095	0	0
3232	0.094	0.094	0	0	3233	0.094	0.094	0	0
3234	0.094	0.094	0	0	3235	0.094	0.094	0	0
3236	0.094	0.094	0	0	3237	0.094	0.094	0	0
3238	0.094	0.094	0	0	3239	0.094	0.094	0	0
3240	0.094	0.094	0	0	3241	0.094	0.094	0	0
3242	0.094	0.094	0	0	3243	0.094	0.094	0	0
3244	0.094	0.094	0	0	3245	0.094	0.094	0	0
3246	0.094	0.094	0	0	3247	0.094	0.094	0	0
3248	0.094	0.094	0	0	3249	0.094	0.094	0	0
3250	0.094	0.094	0	0	3251	0.094	0.094	0	0
3252	0.094	0.094	0	0	3253	0.094	0.094	0	0
3254	0.094	0.094	0	0	3255	0.047	0.047	0	0
3256	0.112	0.112	0	0	3257	0.227	0.227	0	0
3258	0.234	0.234	0	0	3259	0.241	0.241	0	0
3260	0.249	0.249	0	0	3261	0.245	0.245	0	0
3262	0.245	0.245	0	0	3263	0.245	0.245	0	0
3264	0.239	0.239	0	0	3265	0.239	0.239	0	0
3266	0.239	0.239	0	0	3267	0.245	0.245	0	0
3268	0.245	0.245	0	0	3269	0.245	0.245	0	0
3270	0.245	0.245	0	0	3271	0.245	0.245	0	0
3272	0.245	0.245	0	0	3273	0.239	0.239	0	0
3274	0.239	0.239	0	0	3275	0.239	0.239	0	0
3276	0.241	0.241	0	0	3277	0.241	0.241	0	0
3278	0.241	0.241	0	0	3279	0.244	0.244	0	0
3280	0.245	0.245	0	0	3281	0.238	0.238	0	0
3282	0.239	0.239	0	0	3283	0.244	0.244	0	0
3284	0.245	0.245	0	0	3285	0.244	0.244	0	0
3286	0.245	0.245	0	0	3287	0.238	0.238	0	0
3288	0.239	0.239	0	0	3289	0.241	0.241	0	0
3290	0.241	0.241	0	0	3291	0.245	0.245	0	0
3292	0.244	0.244	0	0	3293	0.239	0.239	0	0
3294	0.238	0.238	0	0	3295	0.245	0.245	0	0
3296	0.244	0.244	0	0	3297	0.245	0.245	0	0
3298	0.244	0.244	0	0	3299	0.239	0.239	0	0
3300	0.238	0.238	0	0	3301	0.242	0.242	0	0
3302	0.24	0.24	0	0	3303	0.246	0.246	0	0
3304	0.246	0.246	0	0	3305	0.24	0.24	0	0
3306	0.24	0.24	0	0	3307	0.246	0.246	0	0
3308	0.246	0.246	0	0	3309	0.246	0.246	0	0
3310	0.246	0.246	0	0	3311	0.24	0.24	0	0
3312	0.24	0.24	0	0	3313	0.242	0.242	0	0
3314	0.239	0.239	0	0	3315	0.247	0.247	0	0
3316	0.247	0.247	0	0	3317	0.241	0.241	0	0
3318	0.241	0.241	0	0	3319	0.247	0.247	0	0
3320	0.247	0.247	0	0	3321	0.247	0.247	0	0
3322	0.247	0.247	0	0	3323	0.241	0.241	0	0
3324	0.241	0.241	0	0	3325	0.242	0.242	0	0
3326	0.238	0.238	0	0	3327	0.094	0.094	0	0
3328	0.188	0.188	0	0	3329	0.218	0.218	0	0
3330	0.245	0.245	0	0	3331	0.245	0.245	0	0
3332	0.218	0.218	0	0	3333	0.188	0.188	0	0
3334	0.094	0.094	0	0	3335	0.094	0.094	0	0
3336	0.188	0.188	0	0	3337	0.218	0.218	0	0
3338	0.245	0.245	0	0	3339	0.243	0.243	0	0
3340	0.246	0.246	0	0	3341	0.111	0.111	0	0
3342	0.226	0.226	0	0	3343	0.232	0.232	0	0
3344	0.24	0.24	0	0	3345	0.248	0.248	0	0
3346	0.239	0.239	0	0	3347	0.233	0.233	0	0
3348	0.239	0.239	0	0	3349	0.239	0.239	0	0
3350	0.233	0.233	0	0	3351	0.24	0.24	0	0
3352	0.234	0.234	0	0	3353	0.24	0.24	0	0
3354	0.24	0.24	0	0	3355	0.234	0.234	0	0
3356	0.239	0.239	0	0	3357	0.233	0.233	0	0
3358	0.239	0.239	0	0	3359	0.239	0.239	0	0
3360	0.233	0.233	0	0	3361	0.24	0.24	0	0
3362	0.234	0.234	0	0	3363	0.24	0.24	0	0
3364	0.24	0.24	0	0	3365	0.234	0.234	0	0
3366	0.239	0.239	0	0	3367	0.233	0.233	0	0
3368	0.239	0.239	0	0	3369	0.239	0.239	0	0
3370	0.233	0.233	0	0	3371	0.239	0.239	0	0
3372	0.233	0.233	0	0	3373	0.239	0.239	0	0
3374	0.239	0.239	0	0	3375	0.233	0.233	0	0
3376	0.239	0.239	0	0	3377	0.233	0.233	0	0
3378	0.239	0.239	0	0	3379	0.239	0.239	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
3380	0.233	0.233	0	0	3381	0.241	0.241	0	0
3382	0.24	0.24	0	0	3383	0.235	0.235	0	0
3384	0.234	0.234	0	0	3385	0.241	0.241	0	0
3386	0.24	0.24	0	0	3387	0.241	0.241	0	0
3388	0.24	0.24	0	0	3389	0.235	0.235	0	0
3390	0.234	0.234	0	0	3391	0.238	0.238	0	0
3392	0.238	0.238	0	0	3393	0.238	0.238	0	0
3394	0.238	0.238	0	0	3395	0.237	0.237	0	0
3396	0.238	0.238	0	0	3397	0.236	0.236	0	0
3398	0.238	0.238	0	0	3399	0.234	0.234	0	0
3400	0.244	0.244	0	0	3401	0.243	0.243	0	0
3402	0.238	0.238	0	0	3403	0.237	0.237	0	0
3404	0.244	0.244	0	0	3405	0.243	0.243	0	0
3406	0.244	0.244	0	0	3407	0.243	0.243	0	0
3408	0.238	0.238	0	0	3409	0.237	0.237	0	0
3410	0.24	0.24	0	0	3411	0.233	0.233	0	0
3412	0.094	0.094	0	0	3413	0.188	0.188	0	0
3414	0.217	0.217	0	0	3415	0.244	0.244	0	0
3416	0.244	0.244	0	0	3417	0.217	0.217	0	0
3418	0.188	0.188	0	0	3419	0.094	0.094	0	0
3420	0.094	0.094	0	0	3421	0.188	0.188	0	0
3422	0.217	0.217	0	0	3423	0.244	0.244	0	0
3424	0.242	0.242	0	0	3425	0.244	0.244	0	0
3426	0.11	0.11	0	0	3427	0.224	0.224	0	0
3428	0.229	0.229	0	0	3429	0.236	0.236	0	0
3430	0.246	0.246	0	0	3431	0.231	0.231	0	0
3432	0.226	0.226	0	0	3433	0.231	0.231	0	0
3434	0.231	0.231	0	0	3435	0.226	0.226	0	0
3436	0.231	0.231	0	0	3437	0.225	0.225	0	0
3438	0.231	0.231	0	0	3439	0.231	0.231	0	0
3440	0.225	0.225	0	0	3441	0.229	0.229	0	0
3442	0.223	0.223	0	0	3443	0.229	0.229	0	0
3444	0.229	0.229	0	0	3445	0.223	0.223	0	0
3446	0.23	0.23	0	0	3447	0.225	0.225	0	0
3448	0.23	0.23	0	0	3449	0.23	0.23	0	0
3450	0.225	0.225	0	0	3451	0.23	0.23	0	0
3452	0.225	0.225	0	0	3453	0.23	0.23	0	0
3454	0.23	0.23	0	0	3455	0.225	0.225	0	0
3456	0.229	0.229	0	0	3457	0.223	0.223	0	0
3458	0.229	0.229	0	0	3459	0.229	0.229	0	0
3460	0.223	0.223	0	0	3461	0.231	0.231	0	0
3462	0.225	0.225	0	0	3463	0.231	0.231	0	0
3464	0.231	0.231	0	0	3465	0.225	0.225	0	0
3466	0.233	0.233	0	0	3467	0.232	0.232	0	0
3468	0.227	0.227	0	0	3469	0.227	0.227	0	0
3470	0.233	0.233	0	0	3471	0.232	0.232	0	0
3472	0.233	0.233	0	0	3473	0.232	0.232	0	0
3474	0.227	0.227	0	0	3475	0.227	0.227	0	0
3476	0.23	0.23	0	0	3477	0.229	0.229	0	0
3478	0.229	0.229	0	0	3479	0.229	0.229	0	0
3480	0.229	0.229	0	0	3481	0.228	0.228	0	0
3482	0.229	0.229	0	0	3483	0.226	0.226	0	0
3484	0.224	0.224	0	0	3485	0.239	0.239	0	0
3486	0.238	0.238	0	0	3487	0.233	0.233	0	0
3488	0.232	0.232	0	0	3489	0.239	0.239	0	0
3490	0.238	0.238	0	0	3491	0.239	0.239	0	0
3492	0.238	0.238	0	0	3493	0.233	0.233	0	0
3494	0.232	0.232	0	0	3495	0.236	0.236	0	0
3496	0.224	0.224	0	0	3497	0.094	0.094	0	0
3498	0.188	0.188	0	0	3499	0.216	0.216	0	0
3500	0.24	0.24	0	0	3501	0.24	0.24	0	0
3502	0.215	0.215	0	0	3503	0.188	0.188	0	0
3504	0.094	0.094	0	0	3505	0.094	0.094	0	0
3506	0.188	0.188	0	0	3507	0.216	0.216	0	0
3508	0.24	0.24	0	0	3509	0.239	0.239	0	0
3510	0.24	0.24	0	0	3511	0.109	0.109	0	0
3512	0.219	0.219	0	0	3513	0.222	0.222	0	0
3514	0.227	0.227	0	0	3515	0.219	0.219	0	0
3516	0.213	0.213	0	0	3517	0.219	0.219	0	0
3518	0.219	0.219	0	0	3519	0.213	0.213	0	0
3520	0.218	0.218	0	0	3521	0.212	0.212	0	0
3522	0.218	0.218	0	0	3523	0.218	0.218	0	0
3524	0.212	0.212	0	0	3525	0.218	0.218	0	0
3526	0.213	0.213	0	0	3527	0.218	0.218	0	0
3528	0.218	0.218	0	0	3529	0.213	0.213	0	0
3530	0.219	0.219	0	0	3531	0.214	0.214	0	0
3532	0.219	0.219	0	0	3533	0.219	0.219	0	0
3534	0.214	0.214	0	0	3535	0.216	0.216	0	0
3536	0.21	0.21	0	0	3537	0.216	0.216	0	0
3538	0.216	0.216	0	0	3539	0.21	0.21	0	0
3540	0.218	0.218	0	0	3541	0.212	0.212	0	0
3542	0.218	0.218	0	0	3543	0.218	0.218	0	0
3544	0.212	0.212	0	0	3545	0.217	0.217	0	0
3546	0.212	0.212	0	0	3547	0.217	0.217	0	0
3548	0.217	0.217	0	0	3549	0.212	0.212	0	0
3550	0.241	0.241	0	0	3551	0.222	0.222	0	0
3552	0.221	0.221	0	0	3553	0.216	0.216	0	0
3554	0.216	0.216	0	0	3555	0.222	0.222	0	0
3556	0.221	0.221	0	0	3557	0.222	0.222	0	0
3558	0.221	0.221	0	0	3559	0.216	0.216	0	0
3560	0.216	0.216	0	0	3561	0.212	0.212	0	0
3562	0.212	0.212	0	0	3563	0.212	0.212	0	0
3564	0.213	0.213	0	0	3565	0.211	0.211	0	0
3566	0.218	0.218	0	0	3567	0.213	0.213	0	0
3568	0.209	0.209	0	0	3569	0.207	0.207	0	0
3570	0.23	0.23	0	0	3571	0.228	0.228	0	0
3572	0.224	0.224	0	0	3573	0.223	0.223	0	0
3574	0.23	0.23	0	0	3575	0.228	0.228	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
3576	0.23	0.23	0	0	3577	0.228	0.228	0	0
3578	0.224	0.224	0	0	3579	0.223	0.223	0	0
3580	0.227	0.227	0	0	3581	0.209	0.209	0	0
3582	0.094	0.094	0	0	3583	0.188	0.188	0	0
3584	0.214	0.214	0	0	3585	0.235	0.235	0	0
3586	0.235	0.235	0	0	3587	0.213	0.213	0	0
3588	0.188	0.188	0	0	3589	0.094	0.094	0	0
3590	0.094	0.094	0	0	3591	0.188	0.188	0	0
3592	0.214	0.214	0	0	3593	0.235	0.235	0	0
3594	0.234	0.234	0	0	3595	0.235	0.235	0	0
3596	0.107	0.107	0	0	3597	0.212	0.212	0	0
3598	0.208	0.208	0	0	3599	0.204	0.204	0	0
3600	0.197	0.197	0	0	3601	0.192	0.192	0	0
3602	0.197	0.197	0	0	3603	0.197	0.197	0	0
3604	0.192	0.192	0	0	3605	0.191	0.191	0	0
3606	0.195	0.195	0	0	3607	0.196	0.196	0	0
3608	0.19	0.19	0	0	3609	0.191	0.191	0	0
3610	0.195	0.195	0	0	3611	0.196	0.196	0	0
3612	0.195	0.195	0	0	3613	0.196	0.196	0	0
3614	0.19	0.19	0	0	3615	0.191	0.191	0	0
3616	0.191	0.191	0	0	3617	0.19	0.19	0	0
3618	0.196	0.196	0	0	3619	0.197	0.197	0	0
3620	0.191	0.191	0	0	3621	0.192	0.192	0	0
3622	0.196	0.196	0	0	3623	0.197	0.197	0	0
3624	0.196	0.196	0	0	3625	0.197	0.197	0	0
3626	0.191	0.191	0	0	3627	0.192	0.192	0	0
3628	0.191	0.191	0	0	3629	0.189	0.189	0	0
3630	0.194	0.194	0	0	3631	0.195	0.195	0	0
3632	0.189	0.189	0	0	3633	0.19	0.19	0	0
3634	0.194	0.194	0	0	3635	0.195	0.195	0	0
3636	0.194	0.194	0	0	3637	0.195	0.195	0	0
3638	0.189	0.189	0	0	3639	0.19	0.19	0	0
3640	0.192	0.192	0	0	3641	0.187	0.187	0	0
3642	0.195	0.195	0	0	3643	0.194	0.194	0	0
3644	0.19	0.19	0	0	3645	0.19	0.19	0	0
3646	0.195	0.195	0	0	3647	0.194	0.194	0	0
3648	0.195	0.195	0	0	3649	0.194	0.194	0	0
3650	0.19	0.19	0	0	3651	0.19	0.19	0	0
3652	0.192	0.192	0	0	3653	0.182	0.182	0	0
3654	0.201	0.201	0	0	3655	0.198	0.198	0	0
3656	0.196	0.196	0	0	3657	0.193	0.193	0	0
3658	0.191	0.191	0	0	3659	0.198	0.198	0	0
3660	0.196	0.196	0	0	3661	0.198	0.198	0	0
3662	0.196	0.196	0	0	3663	0.193	0.193	0	0
3664	0.191	0.191	0	0	3665	0.196	0.196	0	0
3666	0.175	0.175	0	0	3667	0.097	0.097	0	0
3668	0.194	0.194	0	0	3669	0.188	0.188	0	0
3670	0.179	0.179	0	0	3671	0.179	0.179	0	0
3672	0.186	0.186	0	0	3673	0.194	0.194	0	0
3674	0.097	0.097	0	0	3675	0.097	0.097	0	0
3676	0.194	0.194	0	0	3677	0.188	0.188	0	0
3678	0.179	0.179	0	0	3679	0.178	0.178	0	0
3680	0.181	0.181	0	0	3681	0.104	0.104	0	0
3682	0.204	0.204	0	0	3683	0.194	0.194	0	0
3684	0.183	0.183	0	0	3685	0.172	0.172	0	0
3686	0.172	0.172	0	0	3687	0.168	0.168	0	0
3688	0.168	0.168	0	0	3689	0.172	0.172	0	0
3690	0.172	0.172	0	0	3691	0.172	0.172	0	0
3692	0.172	0.172	0	0	3693	0.168	0.168	0	0
3694	0.168	0.168	0	0	3695	0.173	0.173	0	0
3696	0.169	0.169	0	0	3697	0.173	0.173	0	0
3698	0.173	0.173	0	0	3699	0.169	0.169	0	0
3700	0.172	0.172	0	0	3701	0.173	0.173	0	0
3702	0.173	0.173	0	0	3703	0.169	0.169	0	0
3704	0.169	0.169	0	0	3705	0.173	0.173	0	0
3706	0.173	0.173	0	0	3707	0.173	0.173	0	0
3708	0.173	0.173	0	0	3709	0.169	0.169	0	0
3710	0.169	0.169	0	0	3711	0.172	0.172	0	0
3712	0.172	0.172	0	0	3713	0.172	0.172	0	0
3714	0.172	0.172	0	0	3715	0.167	0.167	0	0
3716	0.168	0.168	0	0	3717	0.172	0.172	0	0
3718	0.172	0.172	0	0	3719	0.172	0.172	0	0
3720	0.172	0.172	0	0	3721	0.167	0.167	0	0
3722	0.168	0.168	0	0	3723	0.172	0.172	0	0
3724	0.171	0.171	0	0	3725	0.17	0.17	0	0
3726	0.169	0.169	0	0	3727	0.167	0.167	0	0
3728	0.167	0.167	0	0	3729	0.163	0.163	0	0
3730	0.163	0.163	0	0	3731	0.167	0.167	0	0
3732	0.167	0.167	0	0	3733	0.167	0.167	0	0
3734	0.167	0.167	0	0	3735	0.163	0.163	0	0
3736	0.163	0.163	0	0	3737	0.167	0.167	0	0
3738	0.167	0.167	0	0	3739	0.162	0.162	0	0
3740	0.151	0.151	0	0	3741	0.154	0.154	0	0
3742	0.148	0.148	0	0	3743	0.15	0.15	0	0
3744	0.151	0.151	0	0	3745	0.154	0.154	0	0
3746	0.151	0.151	0	0	3747	0.154	0.154	0	0
3748	0.148	0.148	0	0	3749	0.15	0.15	0	0
3750	0.151	0.151	0	0	3751	0.145	0.145	0	0
3752	0.074	0.074	0	0	3753	0.148	0.148	0	0
3754	0.148	0.148	0	0	3755	0.076	0.076	0	0
3756	0.074	0.074	0	0	3757	0.148	0.148	0	0
3758	0.148	0.148	0	0	3759	0.143	0.143	0	0
3760	0.094	0.094	0	0	3761	0.188	0.188	0	0
3762	0.094	0.094	0	0	3763	0.38	0.38	0	0
3764	0.055	0.055	0	0	3765	0.761	0.761	0	0
3766	0.767	0.767	0	0	3767	0.77	0.77	0	0
3768	0.771	0.771	0	0	3769	0.77	0.77	0	0
3770	0.77	0.77	0	0	3771	0.77	0.77	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
3772	0.771	0.771	0	0	3773	0.77	0.77	0	0
3774	0.768	0.768	0	0	3775	0.762	0.762	0	0
3776	0.945	0.945	0	0	3777	0.743	0.743	0	0
3778	0.749	0.749	0	0	3779	0.751	0.751	0	0
3780	0.752	0.752	0	0	3781	0.751	0.751	0	0
3782	0.751	0.751	0	0	3783	0.751	0.751	0	0
3784	0.752	0.752	0	0	3785	0.751	0.751	0	0
3786	0.75	0.75	0	0	3787	0.745	0.745	0	0
3788	0.943	0.943	0	0	3789	0.76	0.76	0	0
3790	0.767	0.767	0	0	3791	0.77	0.77	0	0
3792	0.771	0.771	0	0	3793	0.77	0.77	0	0
3794	0.77	0.77	0	0	3795	0.77	0.77	0	0
3796	0.771	0.771	0	0	3797	0.77	0.77	0	0
3798	0.768	0.768	0	0	3799	0.763	0.763	0	0
3800	0.054	0.054	0	0	3801	0.382	0.382	0	0
3802	0.094	0.094	0	0	3803	0.188	0.188	0	0
3804	0.094	0.094	0	0	3805	0.094	0.094	0	0
3806	0.188	0.188	0	0	3807	0.38	0.38	0	0
3808	0.094	0.094	0	0	3809	0.055	0.055	0	0
3810	0.761	0.761	0	0	3811	0.767	0.767	0	0
3812	0.77	0.77	0	0	3813	0.771	0.771	0	0
3814	0.77	0.77	0	0	3815	0.77	0.77	0	0
3816	0.77	0.77	0	0	3817	0.771	0.771	0	0
3818	0.77	0.77	0	0	3819	0.768	0.768	0	0
3820	0.762	0.762	0	0	3821	0.944	0.944	0	0
3822	0.743	0.743	0	0	3823	0.749	0.749	0	0
3824	0.751	0.751	0	0	3825	0.752	0.752	0	0
3826	0.751	0.751	0	0	3827	0.751	0.751	0	0
3828	0.751	0.751	0	0	3829	0.752	0.752	0	0
3830	0.751	0.751	0	0	3831	0.75	0.75	0	0
3832	0.745	0.745	0	0	3833	0.944	0.944	0	0
3834	0.76	0.76	0	0	3835	0.766	0.766	0	0
3836	0.77	0.77	0	0	3837	0.77	0.77	0	0
3838	0.77	0.77	0	0	3839	0.77	0.77	0	0
3840	0.77	0.77	0	0	3841	0.77	0.77	0	0
3842	0.769	0.769	0	0	3843	0.766	0.766	0	0
3844	0.761	0.761	0	0	3845	0.243	0.243	0	0
3846	0.471	0.471	0	0	3847	0.193	0.193	0	0
3848	0.202	0.202	0	0	3849	0.209	0.209	0	0
3850	0.214	0.214	0	0	3851	0.109	0.109	0	0
3852	0.088	0.088	0	0	3853	0.177	0.177	0	0
3854	0.088	0.088	0	0	3855	0.378	0.378	0	0
3856	0.08	0.08	0	0	3857	0.757	0.757	0	0
3858	0.757	0.757	0	0	3859	0.757	0.757	0	0
3860	0.757	0.757	0	0	3861	0.757	0.757	0	0
3862	0.757	0.757	0	0	3863	0.757	0.757	0	0
3864	0.756	0.756	0	0	3865	0.756	0.756	0	0
3866	0.755	0.755	0	0	3867	0.753	0.753	0	0
3868	0.747	0.747	0	0	3869	0.742	0.742	0	0
3870	0.739	0.739	0	0	3871	0.739	0.739	0	0
3872	0.738	0.738	0	0	3873	0.738	0.738	0	0
3874	0.738	0.738	0	0	3875	0.738	0.738	0	0
3876	0.738	0.738	0	0	3877	0.739	0.739	0	0
3878	0.088	0.088	0	0	3879	0.177	0.177	0	0
3880	0.088	0.088	0	0	3881	0.378	0.378	0	0
3882	0.08	0.08	0	0	3883	0.74	0.74	0	0
3884	0.757	0.757	0	0	3885	0.742	0.742	0	0
3886	0.757	0.757	0	0	3887	0.747	0.747	0	0
3888	0.757	0.757	0	0	3889	0.753	0.753	0	0
3890	0.755	0.755	0	0	3891	0.757	0.757	0	0
3892	0.756	0.756	0	0	3893	0.757	0.757	0	0
3894	0.757	0.757	0	0	3895	0.757	0.757	0	0
3896	0.757	0.757	0	0	3897	0.757	0.757	0	0
3898	0.757	0.757	0	0	3899	0.757	0.757	0	0
3900	0.757	0.757	0	0	3901	0.756	0.756	0	0
3902	0.757	0.757	0	0	3903	0.756	0.756	0	0
3904	0.757	0.757	0	0	3905	0.757	0.757	0	0
3906	0.754	0.754	0	0	3907	0.757	0.757	0	0
3908	0.747	0.747	0	0	3909	0.208	0.208	0	0
3910	0.492	0.492	0	0	3911	0.741	0.741	0	0
3912	0.227	0.227	0	0	3913	0.739	0.739	0	0
3914	0.227	0.227	0	0	3915	0.739	0.739	0	0
3916	0.227	0.227	0	0	3917	0.738	0.738	0	0
3918	0.227	0.227	0	0	3919	0.738	0.738	0	0
3920	0.113	0.113	0	0	3921	0.738	0.738	0	0
3922	0.738	0.738	0	0	3923	0.738	0.738	0	0
3924	0.739	0.739	0	0	3925	0.739	0.739	0	0
3926	0.741	0.741	0	0	3927	0.748	0.748	0	0
3928	0.754	0.754	0	0	3929	0.755	0.755	0	0
3930	0.756	0.756	0	0	3931	0.757	0.757	0	0
3932	0.757	0.757	0	0	3933	0.757	0.757	0	0
3934	0.757	0.757	0	0	3935	0.757	0.757	0	0
3936	0.757	0.757	0	0	3937	0.757	0.757	0	0
3938	0.757	0.757	0	0	3939	0.076	0.076	0	0
3940	0.378	0.378	0	0	3941	0.088	0.088	0	0
3942	0.177	0.177	0	0	3943	0.088	0.088	0	0
3944	0.088	0.088	0	0	3945	0.177	0.177	0	0
3946	0.088	0.088	0	0	3947	0.378	0.378	0	0
3948	0.088	0.088	0	0	3949	0.757	0.757	0	0
3950	0.757	0.757	0	0	3951	0.757	0.757	0	0
3952	0.757	0.757	0	0	3953	0.757	0.757	0	0
3954	0.757	0.757	0	0	3955	0.757	0.757	0	0
3956	0.756	0.756	0	0	3957	0.756	0.756	0	0
3958	0.754	0.754	0	0	3959	0.752	0.752	0	0
3960	0.747	0.747	0	0	3961	0.743	0.743	0	0
3962	0.74	0.74	0	0	3963	0.739	0.739	0	0
3964	0.738	0.738	0	0	3965	0.738	0.738	0	0
3966	0.738	0.738	0	0	3967	0.738	0.738	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
3968	0.738	0.738	0	0	3969	0.739	0.739	0	0
3970	0.088	0.088	0	0	3971	0.177	0.177	0	0
3972	0.088	0.088	0	0	3973	0.378	0.378	0	0
3974	0.088	0.088	0	0	3975	0.74	0.74	0	0
3976	0.757	0.757	0	0	3977	0.743	0.743	0	0
3978	0.747	0.747	0	0	3979	0.757	0.757	0	0
3980	0.752	0.752	0	0	3981	0.757	0.757	0	0
3982	0.754	0.754	0	0	3983	0.757	0.757	0	0
3984	0.756	0.756	0	0	3985	0.757	0.757	0	0
3986	0.756	0.756	0	0	3987	0.757	0.757	0	0
3988	0.757	0.757	0	0	3989	0.757	0.757	0	0
3990	0.757	0.757	0	0	3991	0.757	0.757	0	0
3992	0.757	0.757	0	0	3993	0.757	0.757	0	0
3994	0.756	0.756	0	0	3995	0.757	0.757	0	0
3996	0.755	0.755	0	0	3997	0.757	0.757	0	0
3998	0.752	0.752	0	0	3999	0.757	0.757	0	0
4000	0.747	0.747	0	0	4001	0.2	0.2	0	0
4002	0.492	0.492	0	0	4003	0.743	0.743	0	0
4004	0.227	0.227	0	0	4005	0.74	0.74	0	0
4006	0.227	0.227	0	0	4007	0.739	0.739	0	0
4008	0.227	0.227	0	0	4009	0.738	0.738	0	0
4010	0.227	0.227	0	0	4011	0.113	0.113	0	0
4012	0.738	0.738	0	0	4013	0.738	0.738	0	0
4014	0.738	0.738	0	0	4015	0.738	0.738	0	0
4016	0.739	0.739	0	0	4017	0.74	0.74	0	0
4018	0.743	0.743	0	0	4019	0.748	0.748	0	0
4020	0.752	0.752	0	0	4021	0.755	0.755	0	0
4022	0.756	0.756	0	0	4023	0.757	0.757	0	0
4024	0.757	0.757	0	0	4025	0.757	0.757	0	0
4026	0.757	0.757	0	0	4027	0.757	0.757	0	0
4028	0.757	0.757	0	0	4029	0.757	0.757	0	0
4030	0.757	0.757	0	0	4031	0.378	0.378	0	0
4032	0.086	0.086	0	0	4033	0.088	0.088	0	0
4034	0.177	0.177	0	0	4035	0.088	0.088	0	0
4036	0.088	0.088	0	0	4037	0.177	0.177	0	0
4038	0.088	0.088	0	0	4039	0.378	0.378	0	0
4040	0.095	0.095	0	0	4041	0.757	0.757	0	0
4042	0.757	0.757	0	0	4043	0.757	0.757	0	0
4044	0.757	0.757	0	0	4045	0.757	0.757	0	0
4046	0.757	0.757	0	0	4047	0.757	0.757	0	0
4048	0.756	0.756	0	0	4049	0.756	0.756	0	0
4050	0.754	0.754	0	0	4051	0.751	0.751	0	0
4052	0.747	0.747	0	0	4053	0.743	0.743	0	0
4054	0.741	0.741	0	0	4055	0.739	0.739	0	0
4056	0.738	0.738	0	0	4057	0.738	0.738	0	0
4058	0.738	0.738	0	0	4059	0.738	0.738	0	0
4060	0.738	0.738	0	0	4061	0.739	0.739	0	0
4062	0.088	0.088	0	0	4063	0.177	0.177	0	0
4064	0.378	0.378	0	0	4065	0.088	0.088	0	0
4066	0.095	0.095	0	0	4067	0.741	0.741	0	0
4068	0.757	0.757	0	0	4069	0.743	0.743	0	0
4070	0.747	0.747	0	0	4071	0.757	0.757	0	0
4072	0.751	0.751	0	0	4073	0.757	0.757	0	0
4074	0.754	0.754	0	0	4075	0.757	0.757	0	0
4076	0.756	0.756	0	0	4077	0.757	0.757	0	0
4078	0.756	0.756	0	0	4079	0.757	0.757	0	0
4080	0.757	0.757	0	0	4081	0.757	0.757	0	0
4082	0.757	0.757	0	0	4083	0.756	0.756	0	0
4084	0.757	0.757	0	0	4085	0.757	0.757	0	0
4086	0.756	0.756	0	0	4087	0.757	0.757	0	0
4088	0.754	0.754	0	0	4089	0.757	0.757	0	0
4090	0.751	0.751	0	0	4091	0.757	0.757	0	0
4092	0.747	0.747	0	0	4093	0.195	0.195	0	0
4094	0.492	0.492	0	0	4095	0.743	0.743	0	0
4096	0.227	0.227	0	0	4097	0.741	0.741	0	0
4098	0.227	0.227	0	0	4099	0.739	0.739	0	0
4100	0.227	0.227	0	0	4101	0.738	0.738	0	0
4102	0.227	0.227	0	0	4103	0.113	0.113	0	0
4104	0.738	0.738	0	0	4105	0.738	0.738	0	0
4106	0.738	0.738	0	0	4107	0.738	0.738	0	0
4108	0.739	0.739	0	0	4109	0.741	0.741	0	0
4110	0.743	0.743	0	0	4111	0.748	0.748	0	0
4112	0.751	0.751	0	0	4113	0.754	0.754	0	0
4114	0.756	0.756	0	0	4115	0.757	0.757	0	0
4116	0.757	0.757	0	0	4117	0.757	0.757	0	0
4118	0.757	0.757	0	0	4119	0.757	0.757	0	0
4120	0.757	0.757	0	0	4121	0.757	0.757	0	0
4122	0.757	0.757	0	0	4123	0.378	0.378	0	0
4124	0.093	0.093	0	0	4125	0.088	0.088	0	0
4126	0.177	0.177	0	0	4127	0.088	0.088	0	0
4128	0.088	0.088	0	0	4129	0.177	0.177	0	0
4130	0.088	0.088	0	0	4131	0.378	0.378	0	0
4132	0.097	0.097	0	0	4133	0.757	0.757	0	0
4134	0.757	0.757	0	0	4135	0.757	0.757	0	0
4136	0.757	0.757	0	0	4137	0.757	0.757	0	0
4138	0.757	0.757	0	0	4139	0.757	0.757	0	0
4140	0.756	0.756	0	0	4141	0.756	0.756	0	0
4142	0.754	0.754	0	0	4143	0.751	0.751	0	0
4144	0.747	0.747	0	0	4145	0.743	0.743	0	0
4146	0.741	0.741	0	0	4147	0.739	0.739	0	0
4148	0.738	0.738	0	0	4149	0.738	0.738	0	0
4150	0.738	0.738	0	0	4151	0.738	0.738	0	0
4152	0.738	0.738	0	0	4153	0.739	0.739	0	0
4154	0.088	0.088	0	0	4155	0.177	0.177	0	0
4156	0.378	0.378	0	0	4157	0.088	0.088	0	0
4158	0.097	0.097	0	0	4159	0.741	0.741	0	0
4160	0.757	0.757	0	0	4161	0.744	0.744	0	0
4162	0.747	0.747	0	0	4163	0.757	0.757	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
4164	0.751	0.751	0	0	4165	0.757	0.757	0	0
4166	0.754	0.754	0	0	4167	0.757	0.757	0	0
4168	0.756	0.756	0	0	4169	0.757	0.757	0	0
4170	0.756	0.756	0	0	4171	0.757	0.757	0	0
4172	0.757	0.757	0	0	4173	0.757	0.757	0	0
4174	0.757	0.757	0	0	4175	0.756	0.756	0	0
4176	0.757	0.757	0	0	4177	0.757	0.757	0	0
4178	0.756	0.756	0	0	4179	0.757	0.757	0	0
4180	0.754	0.754	0	0	4181	0.757	0.757	0	0
4182	0.751	0.751	0	0	4183	0.757	0.757	0	0
4184	0.747	0.747	0	0	4185	0.194	0.194	0	0
4186	0.492	0.492	0	0	4187	0.744	0.744	0	0
4188	0.227	0.227	0	0	4189	0.741	0.741	0	0
4190	0.227	0.227	0	0	4191	0.739	0.739	0	0
4192	0.227	0.227	0	0	4193	0.227	0.227	0	0
4194	0.738	0.738	0	0	4195	0.113	0.113	0	0
4196	0.738	0.738	0	0	4197	0.738	0.738	0	0
4198	0.738	0.738	0	0	4199	0.738	0.738	0	0
4200	0.739	0.739	0	0	4201	0.741	0.741	0	0
4202	0.744	0.744	0	0	4203	0.747	0.747	0	0
4204	0.751	0.751	0	0	4205	0.754	0.754	0	0
4206	0.756	0.756	0	0	4207	0.757	0.757	0	0
4208	0.757	0.757	0	0	4209	0.757	0.757	0	0
4210	0.757	0.757	0	0	4211	0.757	0.757	0	0
4212	0.757	0.757	0	0	4213	0.757	0.757	0	0
4214	0.757	0.757	0	0	4215	0.378	0.378	0	0
4216	0.097	0.097	0	0	4217	0.088	0.088	0	0
4218	0.177	0.177	0	0	4219	0.088	0.088	0	0
4220	0.088	0.088	0	0	4221	0.177	0.177	0	0
4222	0.378	0.378	0	0	4223	0.088	0.088	0	0
4224	0.097	0.097	0	0	4225	0.757	0.757	0	0
4226	0.757	0.757	0	0	4227	0.757	0.757	0	0
4228	0.757	0.757	0	0	4229	0.757	0.757	0	0
4230	0.757	0.757	0	0	4231	0.757	0.757	0	0
4232	0.756	0.756	0	0	4233	0.756	0.756	0	0
4234	0.754	0.754	0	0	4235	0.751	0.751	0	0
4236	0.747	0.747	0	0	4237	0.743	0.743	0	0
4238	0.741	0.741	0	0	4239	0.739	0.739	0	0
4240	0.738	0.738	0	0	4241	0.738	0.738	0	0
4242	0.738	0.738	0	0	4243	0.738	0.738	0	0
4244	0.738	0.738	0	0	4245	0.739	0.739	0	0
4246	0.088	0.088	0	0	4247	0.177	0.177	0	0
4248	0.088	0.088	0	0	4249	0.378	0.378	0	0
4250	0.097	0.097	0	0	4251	0.741	0.741	0	0
4252	0.757	0.757	0	0	4253	0.744	0.744	0	0
4254	0.747	0.747	0	0	4255	0.757	0.757	0	0
4256	0.751	0.751	0	0	4257	0.757	0.757	0	0
4258	0.754	0.754	0	0	4259	0.757	0.757	0	0
4260	0.756	0.756	0	0	4261	0.757	0.757	0	0
4262	0.756	0.756	0	0	4263	0.757	0.757	0	0
4264	0.757	0.757	0	0	4265	0.757	0.757	0	0
4266	0.757	0.757	0	0	4267	0.756	0.756	0	0
4268	0.757	0.757	0	0	4269	0.757	0.757	0	0
4270	0.756	0.756	0	0	4271	0.757	0.757	0	0
4272	0.754	0.754	0	0	4273	0.757	0.757	0	0
4274	0.751	0.751	0	0	4275	0.757	0.757	0	0
4276	0.747	0.747	0	0	4277	0.194	0.194	0	0
4278	0.492	0.492	0	0	4279	0.744	0.744	0	0
4280	0.227	0.227	0	0	4281	0.741	0.741	0	0
4282	0.227	0.227	0	0	4283	0.739	0.739	0	0
4284	0.227	0.227	0	0	4285	0.227	0.227	0	0
4286	0.738	0.738	0	0	4287	0.113	0.113	0	0
4288	0.738	0.738	0	0	4289	0.738	0.738	0	0
4290	0.738	0.738	0	0	4291	0.738	0.738	0	0
4292	0.739	0.739	0	0	4293	0.741	0.741	0	0
4294	0.744	0.744	0	0	4295	0.747	0.747	0	0
4296	0.751	0.751	0	0	4297	0.754	0.754	0	0
4298	0.756	0.756	0	0	4299	0.757	0.757	0	0
4300	0.757	0.757	0	0	4301	0.757	0.757	0	0
4302	0.757	0.757	0	0	4303	0.757	0.757	0	0
4304	0.757	0.757	0	0	4305	0.757	0.757	0	0
4306	0.757	0.757	0	0	4307	0.378	0.378	0	0
4308	0.098	0.098	0	0	4309	0.088	0.088	0	0
4310	0.177	0.177	0	0	4311	0.088	0.088	0	0
4312	0.088	0.088	0	0	4313	0.177	0.177	0	0
4314	0.088	0.088	0	0	4315	0.378	0.378	0	0
4316	0.094	0.094	0	0	4317	0.757	0.757	0	0
4318	0.757	0.757	0	0	4319	0.757	0.757	0	0
4320	0.757	0.757	0	0	4321	0.757	0.757	0	0
4322	0.757	0.757	0	0	4323	0.757	0.757	0	0
4324	0.756	0.756	0	0	4325	0.756	0.756	0	0
4326	0.754	0.754	0	0	4327	0.751	0.751	0	0
4328	0.747	0.747	0	0	4329	0.743	0.743	0	0
4330	0.741	0.741	0	0	4331	0.739	0.739	0	0
4332	0.738	0.738	0	0	4333	0.738	0.738	0	0
4334	0.738	0.738	0	0	4335	0.738	0.738	0	0
4336	0.738	0.738	0	0	4337	0.739	0.739	0	0
4338	0.088	0.088	0	0	4339	0.177	0.177	0	0
4340	0.378	0.378	0	0	4341	0.088	0.088	0	0
4342	0.094	0.094	0	0	4343	0.741	0.741	0	0
4344	0.757	0.757	0	0	4345	0.743	0.743	0	0
4346	0.747	0.747	0	0	4347	0.757	0.757	0	0
4348	0.751	0.751	0	0	4349	0.757	0.757	0	0
4350	0.754	0.754	0	0	4351	0.757	0.757	0	0
4352	0.756	0.756	0	0	4353	0.757	0.757	0	0
4354	0.756	0.756	0	0	4355	0.757	0.757	0	0
4356	0.757	0.757	0	0	4357	0.757	0.757	0	0
4358	0.757	0.757	0	0	4359	0.756	0.756	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
4360	0.757	0.757	0	0	4361	0.757	0.757	0	0
4362	0.756	0.756	0	0	4363	0.757	0.757	0	0
4364	0.754	0.754	0	0	4365	0.757	0.757	0	0
4366	0.751	0.751	0	0	4367	0.757	0.757	0	0
4368	0.747	0.747	0	0	4369	0.194	0.194	0	0
4370	0.492	0.492	0	0	4371	0.743	0.743	0	0
4372	0.227	0.227	0	0	4373	0.741	0.741	0	0
4374	0.227	0.227	0	0	4375	0.739	0.739	0	0
4376	0.227	0.227	0	0	4377	0.227	0.227	0	0
4378	0.738	0.738	0	0	4379	0.113	0.113	0	0
4380	0.738	0.738	0	0	4381	0.738	0.738	0	0
4382	0.738	0.738	0	0	4383	0.738	0.738	0	0
4384	0.739	0.739	0	0	4385	0.741	0.741	0	0
4386	0.743	0.743	0	0	4387	0.748	0.748	0	0
4388	0.751	0.751	0	0	4389	0.754	0.754	0	0
4390	0.756	0.756	0	0	4391	0.757	0.757	0	0
4392	0.757	0.757	0	0	4393	0.757	0.757	0	0
4394	0.757	0.757	0	0	4395	0.757	0.757	0	0
4396	0.757	0.757	0	0	4397	0.757	0.757	0	0
4398	0.757	0.757	0	0	4399	0.378	0.378	0	0
4400	0.096	0.096	0	0	4401	0.088	0.088	0	0
4402	0.177	0.177	0	0	4403	0.088	0.088	0	0
4404	0.088	0.088	0	0	4405	0.177	0.177	0	0
4406	0.378	0.378	0	0	4407	0.088	0.088	0	0
4408	0.087	0.087	0	0	4409	0.757	0.757	0	0
4410	0.757	0.757	0	0	4411	0.757	0.757	0	0
4412	0.757	0.757	0	0	4413	0.757	0.757	0	0
4414	0.757	0.757	0	0	4415	0.757	0.757	0	0
4416	0.756	0.756	0	0	4417	0.756	0.756	0	0
4418	0.754	0.754	0	0	4419	0.752	0.752	0	0
4420	0.747	0.747	0	0	4421	0.743	0.743	0	0
4422	0.74	0.74	0	0	4423	0.739	0.739	0	0
4424	0.738	0.738	0	0	4425	0.738	0.738	0	0
4426	0.738	0.738	0	0	4427	0.738	0.738	0	0
4428	0.738	0.738	0	0	4429	0.739	0.739	0	0
4430	0.088	0.088	0	0	4431	0.177	0.177	0	0
4432	0.088	0.088	0	0	4433	0.378	0.378	0	0
4434	0.087	0.087	0	0	4435	0.74	0.74	0	0
4436	0.743	0.743	0	0	4437	0.757	0.757	0	0
4438	0.747	0.747	0	0	4439	0.757	0.757	0	0
4440	0.752	0.752	0	0	4441	0.757	0.757	0	0
4442	0.754	0.754	0	0	4443	0.757	0.757	0	0
4444	0.756	0.756	0	0	4445	0.757	0.757	0	0
4446	0.756	0.756	0	0	4447	0.757	0.757	0	0
4448	0.757	0.757	0	0	4449	0.757	0.757	0	0
4450	0.757	0.757	0	0	4451	0.757	0.757	0	0
4452	0.757	0.757	0	0	4453	0.757	0.757	0	0
4454	0.756	0.756	0	0	4455	0.757	0.757	0	0
4456	0.755	0.755	0	0	4457	0.757	0.757	0	0
4458	0.752	0.752	0	0	4459	0.757	0.757	0	0
4460	0.747	0.747	0	0	4461	0.199	0.199	0	0
4462	0.492	0.492	0	0	4463	0.743	0.743	0	0
4464	0.227	0.227	0	0	4465	0.74	0.74	0	0
4466	0.227	0.227	0	0	4467	0.739	0.739	0	0
4468	0.227	0.227	0	0	4469	0.227	0.227	0	0
4470	0.738	0.738	0	0	4471	0.113	0.113	0	0
4472	0.738	0.738	0	0	4473	0.738	0.738	0	0
4474	0.738	0.738	0	0	4475	0.738	0.738	0	0
4476	0.739	0.739	0	0	4477	0.74	0.74	0	0
4478	0.743	0.743	0	0	4479	0.748	0.748	0	0
4480	0.752	0.752	0	0	4481	0.755	0.755	0	0
4482	0.756	0.756	0	0	4483	0.757	0.757	0	0
4484	0.757	0.757	0	0	4485	0.757	0.757	0	0
4486	0.757	0.757	0	0	4487	0.757	0.757	0	0
4488	0.757	0.757	0	0	4489	0.757	0.757	0	0
4490	0.757	0.757	0	0	4491	0.378	0.378	0	0
4492	0.09	0.09	0	0	4493	0.088	0.088	0	0
4494	0.177	0.177	0	0	4495	0.088	0.088	0	0
4496	0.088	0.088	0	0	4497	0.177	0.177	0	0
4498	0.378	0.378	0	0	4499	0.088	0.088	0	0
4500	0.077	0.077	0	0	4501	0.757	0.757	0	0
4502	0.757	0.757	0	0	4503	0.757	0.757	0	0
4504	0.757	0.757	0	0	4505	0.757	0.757	0	0
4506	0.757	0.757	0	0	4507	0.757	0.757	0	0
4508	0.757	0.757	0	0	4509	0.756	0.756	0	0
4510	0.755	0.755	0	0	4511	0.753	0.753	0	0
4512	0.747	0.747	0	0	4513	0.741	0.741	0	0
4514	0.739	0.739	0	0	4515	0.738	0.738	0	0
4516	0.738	0.738	0	0	4517	0.738	0.738	0	0
4518	0.738	0.738	0	0	4519	0.738	0.738	0	0
4520	0.738	0.738	0	0	4521	0.738	0.738	0	0
4522	0.088	0.088	0	0	4523	0.177	0.177	0	0
4524	0.088	0.088	0	0	4525	0.378	0.378	0	0
4526	0.077	0.077	0	0	4527	0.739	0.739	0	0
4528	0.741	0.741	0	0	4529	0.757	0.757	0	0
4530	0.748	0.748	0	0	4531	0.757	0.757	0	0
4532	0.753	0.753	0	0	4533	0.757	0.757	0	0
4534	0.755	0.755	0	0	4535	0.757	0.757	0	0
4536	0.756	0.756	0	0	4537	0.757	0.757	0	0
4538	0.757	0.757	0	0	4539	0.757	0.757	0	0
4540	0.757	0.757	0	0	4541	0.757	0.757	0	0
4542	0.757	0.757	0	0	4543	0.757	0.757	0	0
4544	0.757	0.757	0	0	4545	0.757	0.757	0	0
4546	0.756	0.756	0	0	4547	0.757	0.757	0	0
4548	0.755	0.755	0	0	4549	0.757	0.757	0	0
4550	0.754	0.754	0	0	4551	0.757	0.757	0	0
4552	0.747	0.747	0	0	4553	0.209	0.209	0	0
4554	0.492	0.492	0	0	4555	0.742	0.742	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
4556	0.227	0.227	0	0	4557	0.74	0.74	0	0
4558	0.227	0.227	0	0	4559	0.739	0.739	0	0
4560	0.227	0.227	0	0	4561	0.227	0.227	0	0
4562	0.738	0.738	0	0	4563	0.113	0.113	0	0
4564	0.738	0.738	0	0	4565	0.738	0.738	0	0
4566	0.738	0.738	0	0	4567	0.738	0.738	0	0
4568	0.739	0.739	0	0	4569	0.739	0.739	0	0
4570	0.741	0.741	0	0	4571	0.748	0.748	0	0
4572	0.753	0.753	0	0	4573	0.755	0.755	0	0
4574	0.756	0.756	0	0	4575	0.757	0.757	0	0
4576	0.757	0.757	0	0	4577	0.757	0.757	0	0
4578	0.757	0.757	0	0	4579	0.757	0.757	0	0
4580	0.757	0.757	0	0	4581	0.757	0.757	0	0
4582	0.757	0.757	0	0	4583	0.378	0.378	0	0
4584	0.082	0.082	0	0	4585	0.088	0.088	0	0
4586	0.177	0.177	0	0	4587	0.088	0.088	0	0
4588	0.094	0.094	0	0	4589	0.188	0.188	0	0
4590	0.378	0.378	0	0	4591	0.094	0.094	0	0
4592	0.057	0.057	0	0	4593	0.762	0.762	0	0
4594	0.768	0.768	0	0	4595	0.771	0.771	0	0
4596	0.771	0.771	0	0	4597	0.77	0.77	0	0
4598	0.77	0.77	0	0	4599	0.77	0.77	0	0
4600	0.77	0.77	0	0	4601	0.771	0.771	0	0
4602	0.769	0.769	0	0	4603	0.763	0.763	0	0
4604	0.938	0.938	0	0	4605	0.745	0.745	0	0
4606	0.75	0.75	0	0	4607	0.753	0.753	0	0
4608	0.754	0.754	0	0	4609	0.753	0.753	0	0
4610	0.751	0.751	0	0	4611	0.751	0.751	0	0
4612	0.751	0.751	0	0	4613	0.752	0.752	0	0
4614	0.094	0.094	0	0	4615	0.188	0.188	0	0
4616	0.378	0.378	0	0	4617	0.094	0.094	0	0
4618	0.057	0.057	0	0	4619	0.75	0.75	0	0
4620	0.745	0.745	0	0	4621	0.762	0.762	0	0
4622	0.937	0.937	0	0	4623	0.768	0.768	0	0
4624	0.761	0.761	0	0	4625	0.771	0.771	0	0
4626	0.764	0.764	0	0	4627	0.771	0.771	0	0
4628	0.765	0.765	0	0	4629	0.77	0.77	0	0
4630	0.765	0.765	0	0	4631	0.77	0.77	0	0
4632	0.765	0.765	0	0	4633	0.77	0.77	0	0
4634	0.766	0.766	0	0	4635	0.766	0.766	0	0
4636	0.77	0.77	0	0	4637	0.766	0.766	0	0
4638	0.771	0.771	0	0	4639	0.766	0.766	0	0
4640	0.769	0.769	0	0	4641	0.765	0.765	0	0
4642	0.762	0.762	0	0	4643	0.761	0.761	0	0
4644	0.939	0.939	0	0	4645	0.25	0.25	0	0
4646	0.469	0.469	0	0	4647	0.745	0.745	0	0
4648	0.192	0.192	0	0	4649	0.75	0.75	0	0
4650	0.202	0.202	0	0	4651	0.208	0.208	0	0
4652	0.752	0.752	0	0	4653	0.213	0.213	0	0
4654	0.751	0.751	0	0	4655	0.108	0.108	0	0
4656	0.751	0.751	0	0	4657	0.751	0.751	0	0
4658	0.753	0.753	0	0	4659	0.754	0.754	0	0
4660	0.753	0.753	0	0	4661	0.751	0.751	0	0
4662	0.746	0.746	0	0	4663	0.936	0.936	0	0
4664	0.762	0.762	0	0	4665	0.769	0.769	0	0
4666	0.771	0.771	0	0	4667	0.77	0.77	0	0
4668	0.77	0.77	0	0	4669	0.77	0.77	0	0
4670	0.772	0.772	0	0	4671	0.773	0.773	0	0
4672	0.772	0.772	0	0	4673	0.769	0.769	0	0
4674	0.763	0.763	0	0	4675	0.058	0.058	0	0
4676	0.094	0.094	0	0	4677	0.378	0.378	0	0
4678	0.188	0.188	0	0	4679	0.094	0.094	0	0
4680	0.069	0.069	0	0	4681	0.142	0.142	0	0
4682	0.069	0.069	0	0	4683	0.142	0.142	0	0
4684	0.142	0.142	0	0	4685	0.148	0.148	0	0
4686	0.143	0.143	0	0	4687	0.073	0.073	0	0
4688	0.151	0.151	0	0	4689	0.151	0.151	0	0
4690	0.155	0.155	0	0	4691	0.158	0.158	0	0
4692	0.151	0.151	0	0	4693	0.153	0.153	0	0
4694	0.155	0.155	0	0	4695	0.158	0.158	0	0
4696	0.151	0.151	0	0	4697	0.153	0.153	0	0
4698	0.155	0.155	0	0	4699	0.157	0.157	0	0
4700	0.166	0.166	0	0	4701	0.162	0.162	0	0
4702	0.167	0.167	0	0	4703	0.168	0.168	0	0
4704	0.168	0.168	0	0	4705	0.168	0.168	0	0
4706	0.168	0.168	0	0	4707	0.168	0.168	0	0
4708	0.164	0.164	0	0	4709	0.168	0.168	0	0
4710	0.168	0.168	0	0	4711	0.168	0.168	0	0
4712	0.162	0.162	0	0	4713	0.163	0.163	0	0
4714	0.168	0.168	0	0	4715	0.168	0.168	0	0
4716	0.162	0.162	0	0	4717	0.163	0.163	0	0
4718	0.166	0.166	0	0	4719	0.167	0.167	0	0
4720	0.172	0.172	0	0	4721	0.173	0.173	0	0
4722	0.169	0.169	0	0	4723	0.172	0.172	0	0
4724	0.172	0.172	0	0	4725	0.173	0.173	0	0
4726	0.173	0.173	0	0	4727	0.173	0.173	0	0
4728	0.169	0.169	0	0	4729	0.168	0.168	0	0
4730	0.169	0.169	0	0	4731	0.173	0.173	0	0
4732	0.173	0.173	0	0	4733	0.173	0.173	0	0
4734	0.173	0.173	0	0	4735	0.168	0.168	0	0
4736	0.169	0.169	0	0	4737	0.173	0.173	0	0
4738	0.173	0.173	0	0	4739	0.17	0.17	0	0
4740	0.172	0.172	0	0	4741	0.172	0.172	0	0
4742	0.17	0.17	0	0	4743	0.167	0.167	0	0
4744	0.166	0.166	0	0	4745	0.174	0.174	0	0
4746	0.171	0.171	0	0	4747	0.172	0.172	0	0
4748	0.166	0.166	0	0	4749	0.167	0.167	0	0
4750	0.17	0.17	0	0	4751	0.172	0.172	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
4752	0.168	0.168	0	0	4753	0.168	0.168	0	0
4754	0.173	0.173	0	0	4755	0.184	0.184	0	0
4756	0.194	0.194	0	0	4757	0.202	0.202	0	0
4758	0.102	0.102	0	0	4759	0.097	0.097	0	0
4760	0.194	0.194	0	0	4761	0.192	0.192	0	0
4762	0.19	0.19	0	0	4763	0.199	0.199	0	0
4764	0.199	0.199	0	0	4765	0.193	0.193	0	0
4766	0.097	0.097	0	0	4767	0.097	0.097	0	0
4768	0.194	0.194	0	0	4769	0.192	0.192	0	0
4770	0.191	0.191	0	0	4771	0.197	0.197	0	0
4772	0.206	0.206	0	0	4773	0.183	0.183	0	0
4774	0.194	0.194	0	0	4775	0.19	0.19	0	0
4776	0.182	0.182	0	0	4777	0.183	0.183	0	0
4778	0.195	0.195	0	0	4779	0.19	0.19	0	0
4780	0.18	0.18	0	0	4781	0.184	0.184	0	0
4782	0.185	0.185	0	0	4783	0.189	0.189	0	0
4784	0.178	0.178	0	0	4785	0.189	0.189	0	0
4786	0.191	0.191	0	0	4787	0.204	0.204	0	0
4788	0.19	0.19	0	0	4789	0.193	0.193	0	0
4790	0.19	0.19	0	0	4791	0.188	0.188	0	0
4792	0.185	0.185	0	0	4793	0.194	0.194	0	0
4794	0.19	0.19	0	0	4795	0.185	0.185	0	0
4796	0.188	0.188	0	0	4797	0.189	0.189	0	0
4798	0.193	0.193	0	0	4799	0.193	0.193	0	0
4800	0.193	0.193	0	0	4801	0.193	0.193	0	0
4802	0.193	0.193	0	0	4803	0.194	0.194	0	0
4804	0.194	0.194	0	0	4805	0.192	0.192	0	0
4806	0.19	0.19	0	0	4807	0.189	0.189	0	0
4808	0.186	0.186	0	0	4809	0.194	0.194	0	0
4810	0.19	0.19	0	0	4811	0.186	0.186	0	0
4812	0.189	0.189	0	0	4813	0.191	0.191	0	0
4814	0.194	0.194	0	0	4815	0.193	0.193	0	0
4816	0.192	0.192	0	0	4817	0.186	0.186	0	0
4818	0.194	0.194	0	0	4819	0.192	0.192	0	0
4820	0.186	0.186	0	0	4821	0.191	0.191	0	0
4822	0.192	0.192	0	0	4823	0.192	0.192	0	0
4824	0.192	0.192	0	0	4825	0.187	0.187	0	0
4826	0.192	0.192	0	0	4827	0.188	0.188	0	0
4828	0.192	0.192	0	0	4829	0.192	0.192	0	0
4830	0.187	0.187	0	0	4831	0.188	0.188	0	0
4832	0.192	0.192	0	0	4833	0.193	0.193	0	0
4834	0.188	0.188	0	0	4835	0.188	0.188	0	0
4836	0.193	0.193	0	0	4837	0.187	0.187	0	0
4838	0.187	0.187	0	0	4839	0.192	0.192	0	0
4840	0.205	0.205	0	0	4841	0.206	0.206	0	0
4842	0.208	0.208	0	0	4843	0.104	0.104	0	0
4844	0.094	0.094	0	0	4845	0.188	0.188	0	0
4846	0.215	0.215	0	0	4847	0.234	0.234	0	0
4848	0.188	0.188	0	0	4849	0.094	0.094	0	0
4850	0.094	0.094	0	0	4851	0.188	0.188	0	0
4852	0.215	0.215	0	0	4853	0.235	0.235	0	0
4854	0.227	0.227	0	0	4855	0.235	0.235	0	0
4856	0.23	0.23	0	0	4857	0.21	0.21	0	0
4858	0.229	0.229	0	0	4859	0.226	0.226	0	0
4860	0.224	0.224	0	0	4861	0.226	0.226	0	0
4862	0.226	0.226	0	0	4863	0.232	0.232	0	0
4864	0.228	0.228	0	0	4865	0.225	0.225	0	0
4866	0.231	0.231	0	0	4867	0.229	0.229	0	0
4868	0.229	0.229	0	0	4869	0.22	0.22	0	0
4870	0.218	0.218	0	0	4871	0.218	0.218	0	0
4872	0.213	0.213	0	0	4873	0.218	0.218	0	0
4874	0.214	0.214	0	0	4875	0.219	0.219	0	0
4876	0.216	0.216	0	0	4877	0.215	0.215	0	0
4878	0.21	0.21	0	0	4879	0.215	0.215	0	0
4880	0.21	0.21	0	0	4881	0.216	0.216	0	0
4882	0.215	0.215	0	0	4883	0.22	0.22	0	0
4884	0.215	0.215	0	0	4885	0.209	0.209	0	0
4886	0.215	0.215	0	0	4887	0.209	0.209	0	0
4888	0.215	0.215	0	0	4889	0.215	0.215	0	0
4890	0.215	0.215	0	0	4891	0.214	0.214	0	0
4892	0.21	0.21	0	0	4893	0.214	0.214	0	0
4894	0.215	0.215	0	0	4895	0.214	0.214	0	0
4896	0.209	0.209	0	0	4897	0.214	0.214	0	0
4898	0.215	0.215	0	0	4899	0.215	0.215	0	0
4900	0.215	0.215	0	0	4901	0.215	0.215	0	0
4902	0.214	0.214	0	0	4903	0.216	0.216	0	0
4904	0.216	0.216	0	0	4905	0.221	0.221	0	0
4906	0.221	0.221	0	0	4907	0.217	0.217	0	0
4908	0.208	0.208	0	0	4909	0.216	0.216	0	0
4910	0.208	0.208	0	0	4911	0.214	0.214	0	0
4912	0.216	0.216	0	0	4913	0.214	0.214	0	0
4914	0.21	0.21	0	0	4915	0.21	0.21	0	0
4916	0.215	0.215	0	0	4917	0.247	0.247	0	0
4918	0.21	0.21	0	0	4919	0.21	0.21	0	0
4920	0.215	0.215	0	0	4921	0.219	0.219	0	0
4922	0.212	0.212	0	0	4923	0.211	0.211	0	0
4924	0.217	0.217	0	0	4925	0.227	0.227	0	0
4926	0.219	0.219	0	0	4927	0.215	0.215	0	0
4928	0.107	0.107	0	0	4929	0.094	0.094	0	0
4930	0.188	0.188	0	0	4931	0.217	0.217	0	0
4932	0.188	0.188	0	0	4933	0.094	0.094	0	0
4934	0.094	0.094	0	0	4935	0.188	0.188	0	0
4936	0.217	0.217	0	0	4937	0.241	0.241	0	0
4938	0.236	0.236	0	0	4939	0.243	0.243	0	0
4940	0.241	0.241	0	0	4941	0.238	0.238	0	0
4942	0.214	0.214	0	0	4943	0.237	0.237	0	0
4944	0.239	0.239	0	0	4945	0.234	0.234	0	0
4946	0.239	0.239	0	0	4947	0.235	0.235	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
4948	0.241	0.241	0	0	4949	0.239	0.239	0	0
4950	0.238	0.238	0	0	4951	0.234	0.234	0	0
4952	0.233	0.233	0	0	4953	0.239	0.239	0	0
4954	0.231	0.231	0	0	4955	0.235	0.235	0	0
4956	0.229	0.229	0	0	4957	0.234	0.234	0	0
4958	0.23	0.23	0	0	4959	0.235	0.235	0	0
4960	0.232	0.232	0	0	4961	0.233	0.233	0	0
4962	0.227	0.227	0	0	4963	0.233	0.233	0	0
4964	0.227	0.227	0	0	4965	0.233	0.233	0	0
4966	0.232	0.232	0	0	4967	0.226	0.226	0	0
4968	0.232	0.232	0	0	4969	0.227	0.227	0	0
4970	0.232	0.232	0	0	4971	0.232	0.232	0	0
4972	0.232	0.232	0	0	4973	0.226	0.226	0	0
4974	0.232	0.232	0	0	4975	0.232	0.232	0	0
4976	0.232	0.232	0	0	4977	0.226	0.226	0	0
4978	0.226	0.226	0	0	4979	0.232	0.232	0	0
4980	0.232	0.232	0	0	4981	0.226	0.226	0	0
4982	0.231	0.231	0	0	4983	0.23	0.23	0	0
4984	0.231	0.231	0	0	4985	0.231	0.231	0	0
4986	0.224	0.224	0	0	4987	0.224	0.224	0	0
4988	0.229	0.229	0	0	4989	0.224	0.224	0	0
4990	0.228	0.228	0	0	4991	0.224	0.224	0	0
4992	0.229	0.229	0	0	4993	0.229	0.229	0	0
4994	0.234	0.234	0	0	4995	0.231	0.231	0	0
4996	0.229	0.229	0	0	4997	0.228	0.228	0	0
4998	0.233	0.233	0	0	4999	0.228	0.228	0	0
5000	0.228	0.228	0	0	5001	0.228	0.228	0	0
5002	0.227	0.227	0	0	5003	0.226	0.226	0	0
5004	0.232	0.232	0	0	5005	0.224	0.224	0	0
5006	0.224	0.224	0	0	5007	0.229	0.229	0	0
5008	0.23	0.23	0	0	5009	0.25	0.25	0	0
5010	0.237	0.237	0	0	5011	0.227	0.227	0	0
5012	0.221	0.221	0	0	5013	0.109	0.109	0	0
5014	0.094	0.094	0	0	5015	0.188	0.188	0	0
5016	0.218	0.218	0	0	5017	0.188	0.188	0	0
5018	0.094	0.094	0	0	5019	0.094	0.094	0	0
5020	0.188	0.188	0	0	5021	0.218	0.218	0	0
5022	0.243	0.243	0	0	5023	0.24	0.24	0	0
5024	0.246	0.246	0	0	5025	0.244	0.244	0	0
5026	0.242	0.242	0	0	5027	0.216	0.216	0	0
5028	0.244	0.244	0	0	5029	0.245	0.245	0	0
5030	0.239	0.239	0	0	5031	0.244	0.244	0	0
5032	0.239	0.239	0	0	5033	0.245	0.245	0	0
5034	0.24	0.24	0	0	5035	0.238	0.238	0	0
5036	0.246	0.246	0	0	5037	0.244	0.244	0	0
5038	0.24	0.24	0	0	5039	0.243	0.243	0	0
5040	0.237	0.237	0	0	5041	0.243	0.243	0	0
5042	0.238	0.238	0	0	5043	0.244	0.244	0	0
5044	0.241	0.241	0	0	5045	0.243	0.243	0	0
5046	0.235	0.235	0	0	5047	0.237	0.237	0	0
5048	0.243	0.243	0	0	5049	0.237	0.237	0	0
5050	0.235	0.235	0	0	5051	0.243	0.243	0	0
5052	0.241	0.241	0	0	5053	0.241	0.241	0	0
5054	0.242	0.242	0	0	5055	0.234	0.234	0	0
5056	0.236	0.236	0	0	5057	0.242	0.242	0	0
5058	0.236	0.236	0	0	5059	0.235	0.235	0	0
5060	0.242	0.242	0	0	5061	0.24	0.24	0	0
5062	0.242	0.242	0	0	5063	0.242	0.242	0	0
5064	0.242	0.242	0	0	5065	0.235	0.235	0	0
5066	0.236	0.236	0	0	5067	0.242	0.242	0	0
5068	0.242	0.242	0	0	5069	0.236	0.236	0	0
5070	0.242	0.242	0	0	5071	0.236	0.236	0	0
5072	0.236	0.236	0	0	5073	0.236	0.236	0	0
5074	0.242	0.242	0	0	5075	0.242	0.242	0	0
5076	0.242	0.242	0	0	5077	0.238	0.238	0	0
5078	0.238	0.238	0	0	5079	0.241	0.241	0	0
5080	0.241	0.241	0	0	5081	0.235	0.235	0	0
5082	0.234	0.234	0	0	5083	0.24	0.24	0	0
5084	0.237	0.237	0	0	5085	0.239	0.239	0	0
5086	0.241	0.241	0	0	5087	0.236	0.236	0	0
5088	0.236	0.236	0	0	5089	0.236	0.236	0	0
5090	0.236	0.236	0	0	5091	0.236	0.236	0	0
5092	0.236	0.236	0	0	5093	0.236	0.236	0	0
5094	0.251	0.251	0	0	5095	0.241	0.241	0	0
5096	0.231	0.231	0	0	5097	0.224	0.224	0	0
5098	0.11	0.11	0	0	5099	0.094	0.094	0	0
5100	0.188	0.188	0	0	5101	0.218	0.218	0	0
5102	0.188	0.188	0	0	5103	0.094	0.094	0	0
5104	0.094	0.094	0	0	5105	0.188	0.188	0	0
5106	0.218	0.218	0	0	5107	0.245	0.245	0	0
5108	0.242	0.242	0	0	5109	0.247	0.247	0	0
5110	0.245	0.245	0	0	5111	0.245	0.245	0	0
5112	0.218	0.218	0	0	5113	0.247	0.247	0	0
5114	0.247	0.247	0	0	5115	0.248	0.248	0	0
5116	0.241	0.241	0	0	5117	0.241	0.241	0	0
5118	0.248	0.248	0	0	5119	0.242	0.242	0	0
5120	0.241	0.241	0	0	5121	0.248	0.248	0	0
5122	0.247	0.247	0	0	5123	0.246	0.246	0	0
5124	0.247	0.247	0	0	5125	0.241	0.241	0	0
5126	0.246	0.246	0	0	5127	0.241	0.241	0	0
5128	0.247	0.247	0	0	5129	0.241	0.241	0	0
5130	0.241	0.241	0	0	5131	0.247	0.247	0	0
5132	0.247	0.247	0	0	5133	0.241	0.241	0	0
5134	0.247	0.247	0	0	5135	0.247	0.247	0	0
5136	0.24	0.24	0	0	5137	0.245	0.245	0	0
5138	0.241	0.241	0	0	5139	0.247	0.247	0	0
5140	0.241	0.241	0	0	5141	0.24	0.24	0	0
5142	0.247	0.247	0	0	5143	0.246	0.246	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
5144	0.247	0.247	0	0	5145	0.247	0.247	0	0
5146	0.241	0.241	0	0	5147	0.241	0.241	0	0
5148	0.245	0.245	0	0	5149	0.247	0.247	0	0
5150	0.241	0.241	0	0	5151	0.241	0.241	0	0
5152	0.247	0.247	0	0	5153	0.247	0.247	0	0
5154	0.247	0.247	0	0	5155	0.241	0.241	0	0
5156	0.241	0.241	0	0	5157	0.241	0.241	0	0
5158	0.246	0.246	0	0	5159	0.247	0.247	0	0
5160	0.247	0.247	0	0	5161	0.247	0.247	0	0
5162	0.247	0.247	0	0	5163	0.241	0.241	0	0
5164	0.241	0.241	0	0	5165	0.241	0.241	0	0
5166	0.247	0.247	0	0	5167	0.247	0.247	0	0
5168	0.247	0.247	0	0	5169	0.24	0.24	0	0
5170	0.24	0.24	0	0	5171	0.24	0.24	0	0
5172	0.239	0.239	0	0	5173	0.239	0.239	0	0
5174	0.239	0.239	0	0	5175	0.239	0.239	0	0
5176	0.239	0.239	0	0	5177	0.239	0.239	0	0
5178	0.239	0.239	0	0	5179	0.25	0.25	0	0
5180	0.242	0.242	0	0	5181	0.234	0.234	0	0
5182	0.226	0.226	0	0	5183	0.112	0.112	0	0
5184	0.048	0.048	0	0	5185	0.097	0.097	0	0
5186	0.097	0.097	0	0	5187	0.097	0.097	0	0
5188	0.097	0.097	0	0	5189	0.097	0.097	0	0
5190	0.097	0.097	0	0	5191	0.097	0.097	0	0
5192	0.097	0.097	0	0	5193	0.097	0.097	0	0
5194	0.097	0.097	0	0	5195	0.097	0.097	0	0
5196	0.095	0.095	0	0	5197	0.094	0.094	0	0
5198	0.094	0.094	0	0	5199	0.094	0.094	0	0
5200	0.094	0.094	0	0	5201	0.094	0.094	0	0
5202	0.094	0.094	0	0	5203	0.094	0.094	0	0
5204	0.094	0.094	0	0	5205	0.094	0.094	0	0
5206	0.094	0.094	0	0	5207	0.094	0.094	0	0
5208	0.095	0.095	0	0	5209	0.097	0.097	0	0
5210	0.097	0.097	0	0	5211	0.097	0.097	0	0
5212	0.097	0.097	0	0	5213	0.097	0.097	0	0
5214	0.097	0.097	0	0	5215	0.097	0.097	0	0
5216	0.097	0.097	0	0	5217	0.097	0.097	0	0
5218	0.097	0.097	0	0	5219	0.097	0.097	0	0
5220	0.048	0.048	0	0	5221	0.048	0.048	0	0
5222	0.097	0.097	0	0	5223	0.097	0.097	0	0
5224	0.097	0.097	0	0	5225	0.097	0.097	0	0
5226	0.097	0.097	0	0	5227	0.097	0.097	0	0
5228	0.097	0.097	0	0	5229	0.097	0.097	0	0
5230	0.097	0.097	0	0	5231	0.097	0.097	0	0
5232	0.097	0.097	0	0	5233	0.095	0.095	0	0
5234	0.094	0.094	0	0	5235	0.094	0.094	0	0
5236	0.094	0.094	0	0	5237	0.094	0.094	0	0
5238	0.094	0.094	0	0	5239	0.094	0.094	0	0
5240	0.094	0.094	0	0	5241	0.094	0.094	0	0
5242	0.094	0.094	0	0	5243	0.094	0.094	0	0
5244	0.094	0.094	0	0	5245	0.094	0.094	0	0
5246	0.094	0.094	0	0	5247	0.094	0.094	0	0
5248	0.094	0.094	0	0	5249	0.094	0.094	0	0
5250	0.094	0.094	0	0	5251	0.094	0.094	0	0
5252	0.094	0.094	0	0	5253	0.094	0.094	0	0
5254	0.094	0.094	0	0	5255	0.094	0.094	0	0
5256	0.094	0.094	0	0	5257	0.047	0.047	0	0
5258	0.047	0.047	0	0	5259	0.094	0.094	0	0
5260	0.109	0.109	0	0	5261	0.124	0.124	0	0
5262	0.124	0.124	0	0	5263	0.124	0.124	0	0
5264	0.124	0.124	0	0	5265	0.094	0.094	0	0
5266	0.047	0.047	0	0	5267	0.047	0.047	0	0
5268	0.094	0.094	0	0	5269	0.109	0.109	0	0
5270	0.124	0.124	0	0	5271	0.124	0.124	0	0
5272	0.124	0.124	0	0	5273	0.124	0.124	0	0
5274	0.124	0.124	0	0	5275	0.124	0.124	0	0
5276	0.124	0.124	0	0	5277	0.124	0.124	0	0
5278	0.124	0.124	0	0	5279	0.124	0.124	0	0
5280	0.124	0.124	0	0	5281	0.123	0.123	0	0
5282	0.121	0.121	0	0	5283	0.121	0.121	0	0
5284	0.121	0.121	0	0	5285	0.121	0.121	0	0
5286	0.121	0.121	0	0	5287	0.121	0.121	0	0
5288	0.121	0.121	0	0	5289	0.121	0.121	0	0
5290	0.121	0.121	0	0	5291	0.121	0.121	0	0
5292	0.121	0.121	0	0	5293	0.121	0.121	0	0
5294	0.121	0.121	0	0	5295	0.121	0.121	0	0
5296	0.12	0.12	0	0	5297	0.12	0.12	0	0
5298	0.12	0.12	0	0	5299	0.12	0.12	0	0
5300	0.12	0.12	0	0	5301	0.12	0.12	0	0
5302	0.12	0.12	0	0	5303	0.12	0.12	0	0
5304	0.12	0.12	0	0	5305	0.123	0.123	0	0
5306	0.125	0.125	0	0	5307	0.121	0.121	0	0
5308	0.118	0.118	0	0	5309	0.114	0.114	0	0
5310	0.057	0.057	0	0	5311	0.124	0.124	0	0
5312	0.124	0.124	0	0	5313	0.124	0.124	0	0
5314	0.124	0.124	0	0	5315	0.124	0.124	0	0
5316	0.124	0.124	0	0	5317	0.124	0.124	0	0
5318	0.123	0.123	0	0	5319	0.121	0.121	0	0
5320	0.121	0.121	0	0	5321	0.121	0.121	0	0
5322	0.121	0.121	0	0	5323	0.121	0.121	0	0
5324	0.121	0.121	0	0	5325	0.121	0.121	0	0
5326	0.121	0.121	0	0	5327	0.121	0.121	0	0
5328	0.121	0.121	0	0	5329	0.121	0.121	0	0
5330	0.123	0.123	0	0	5331	0.124	0.124	0	0
5332	0.124	0.124	0	0	5333	0.124	0.124	0	0
5334	0.124	0.124	0	0	5335	0.124	0.124	0	0
5336	0.124	0.124	0	0	5337	0.124	0.124	0	0
5338	0.124	0.124	0	0	5339	0.124	0.124	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
5340	0.124	0.124	0	0	5341	0.124	0.124	0	0
5342	0.109	0.109	0	0	5344	0.039	0.039	0	0
5345	0.038	0.038	0	0	5346	0.039	0.039	0	0
5347	0.044	0.044	0	0	5348	0.044	0.044	0	0
5349	0.044	0.044	0	0	5350	0.174	0.174	0	0
5351	0.174	0.174	0	0	5352	0.174	0.174	0	0
5353	0.174	0.174	0	0	5354	0.172	0.172	0	0
5355	0.172	0.172	0	0	5356	0.172	0.172	0	0
5357	0.172	0.172	0	0	5358	0.177	0.177	0	0
5359	0.177	0.177	0	0	5360	0.177	0.177	0	0
5361	0.177	0.177	0	0	5362	0.177	0.177	0	0
5363	0.177	0.177	0	0	5364	0.177	0.177	0	0
5365	0.177	0.177	0	0	5366	0.068	0.068	0	0
5367	0.061	0.061	0	0	5368	0.061	0.061	0	0
5369	0.068	0.068	0	0	5370	0.068	0.068	0	0
5371	0.061	0.061	0	0	5372	0.061	0.061	0	0
5373	0.058	0.058	0	0	5374	0.063	0.063	0	0
5375	0.06	0.06	0	0	5376	0.06	0.06	0	0
5377	0.063	0.063	0	0	5378	0.063	0.063	0	0
5379	0.06	0.06	0	0	5380	0.06	0.06	0	0
5381	0.118	0.118	0	0	5382	0.072	0.072	0	0
5383	0.068	0.068	0	0	5384	0.068	0.068	0	0
5385	0.073	0.073	0	0	5386	0.072	0.072	0	0
5387	0.068	0.068	0	0	5388	0.068	0.068	0	0
5389	0.134	0.134	0	0	5390	0.071	0.071	0	0
5391	0.075	0.075	0	0	5392	0.075	0.075	0	0
5393	0.071	0.071	0	0	5394	0.071	0.071	0	0
5395	0.075	0.075	0	0	5396	0.075	0.075	0	0
5397	0.15	0.15	0	0	5398	0.044	0.044	0	0
5399	0.08	0.08	0	0	5400	0.08	0.08	0	0
5401	0.044	0.044	0	0	5402	0.044	0.044	0	0
5403	0.08	0.08	0	0	5404	0.08	0.08	0	0
5405	0.166	0.166	0	0	5406	0.093	0.093	0	0
5407	0.135	0.135	0	0	5408	0.135	0.135	0	0
5409	0.093	0.093	0	0	5410	0.093	0.093	0	0
5411	0.135	0.135	0	0	5412	0.135	0.135	0	0
5413	0.202	0.202	0	0	5414	0.11	0.11	0	0
5415	0.11	0.11	0	0	5416	0.11	0.11	0	0
5417	0.109	0.109	0	0	5418	0.109	0.109	0	0
5419	0.109	0.109	0	0	5420	0.108	0.108	0	0
5421	0.108	0.108	0	0	5422	0.108	0.108	0	0
5423	0.108	0.108	0	0	5424	0.108	0.108	0	0
5425	0.108	0.108	0	0	5426	0.108	0.108	0	0
5427	0.108	0.108	0	0	5428	0.108	0.108	0	0
5429	0.108	0.108	0	0	5430	0.108	0.108	0	0
5431	0.108	0.108	0	0	5432	0.108	0.108	0	0
5433	0.108	0.108	0	0	5434	0.108	0.108	0	0
5435	0.108	0.108	0	0	5436	0.108	0.108	0	0
5437	0.108	0.108	0	0	5438	0.109	0.109	0	0
5439	0.109	0.109	0	0	5440	0.109	0.109	0	0
5441	0.112	0.112	0	0	5442	0.111	0.111	0	0
5443	0.111	0.111	0	0	5444	0.11	0.11	0	0
5445	0.141	0.141	0	0	5446	0.141	0.141	0	0
5447	0.11	0.11	0	0	5448	0.11	0.11	0	0
5449	0.141	0.141	0	0	5450	0.141	0.141	0	0
5451	0.207	0.207	0	0	5452	0.081	0.081	0	0
5453	0.094	0.094	0	0	5454	0.094	0.094	0	0
5455	0.081	0.081	0	0	5456	0.081	0.081	0	0
5457	0.094	0.094	0	0	5458	0.094	0.094	0	0
5459	0.162	0.162	0	0	5460	0.071	0.071	0	0
5461	0.082	0.082	0	0	5462	0.082	0.082	0	0
5463	0.071	0.071	0	0	5464	0.071	0.071	0	0
5465	0.082	0.082	0	0	5466	0.082	0.082	0	0
5467	0.146	0.146	0	0	5468	0.058	0.058	0	0
5469	0.061	0.061	0	0	5470	0.061	0.061	0	0
5471	0.058	0.058	0	0	5472	0.058	0.058	0	0
5473	0.061	0.061	0	0	5474	0.061	0.061	0	0
5475	0.13	0.13	0	0	5476	0.053	0.053	0	0
5477	0.052	0.052	0	0	5478	0.052	0.052	0	0
5479	0.053	0.053	0	0	5480	0.053	0.053	0	0
5481	0.052	0.052	0	0	5482	0.052	0.052	0	0
5483	0.114	0.114	0	0	5484	0.043	0.043	0	0
5485	0.042	0.042	0	0	5486	0.042	0.042	0	0
5487	0.043	0.043	0	0	5488	0.043	0.043	0	0
5489	0.042	0.042	0	0	5490	0.042	0.042	0	0
5491	0.056	0.056	0	0	5492	0.178	0.178	0	0
5493	0.178	0.178	0	0	5494	0.178	0.178	0	0
5495	0.178	0.178	0	0	5496	0.178	0.178	0	0
5497	0.178	0.178	0	0	5498	0.178	0.178	0	0
5499	0.178	0.178	0	0	5500	0.178	0.178	0	0
5501	0.178	0.178	0	0	5502	0.178	0.178	0	0
5503	0.178	0.178	0	0	5504	0.178	0.178	0	0
5505	0.178	0.178	0	0	5506	0.178	0.178	0	0
5507	0.178	0.178	0	0	5508	0.175	0.175	0	0
5509	0.174	0.174	0	0	5510	0.174	0.174	0	0
5511	0.175	0.175	0	0	5512	0.178	0.178	0	0
5513	0.178	0.178	0	0	5514	0.183	0.183	0	0
5515	0.184	0.184	0	0	5516	0.186	0.186	0	0
5517	0.191	0.191	0	0	5518	0.192	0.192	0	0
5519	0.192	0.192	0	0	5520	0.192	0.192	0	0
5521	0.192	0.192	0	0	5522	0.192	0.192	0	0
5523	0.192	0.192	0	0	5524	0.192	0.192	0	0
5525	0.192	0.192	0	0	5526	0.188	0.188	0	0
5527	0.188	0.188	0	0	5528	0.188	0.188	0	0
5529	0.188	0.188	0	0	5530	0.189	0.189	0	0
5531	0.189	0.189	0	0	5532	0.189	0.189	0	0
5533	0.189	0.189	0	0	5534	0.181	0.181	0	0
5535	0.181	0.181	0	0	5536	0.181	0.181	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
5537	0.181	0.181	0	0	5538	0.181	0.181	0	0
5539	0.181	0.181	0	0	5540	0.181	0.181	0	0
5541	0.181	0.181	0	0	5542	0.179	0.179	0	0
5543	0.179	0.179	0	0	5544	0.179	0.179	0	0
5545	0.178	0.178	0	0	5546	0.178	0.178	0	0
5547	0.178	0.178	0	0	5548	0.178	0.178	0	0
5549	0.178	0.178	0	0	5550	0.178	0.178	0	0
5551	0.178	0.178	0	0	5552	0.178	0.178	0	0
5553	0.178	0.178	0	0	5554	0.178	0.178	0	0
5555	0.178	0.178	0	0	5556	0.178	0.178	0	0
5557	0.179	0.179	0	0	5558	0.179	0.179	0	0
5559	0.179	0.179	0	0	5560	0.18	0.18	0	0
5561	0.18	0.18	0	0	5562	0.18	0.18	0	0
5563	0.181	0.181	0	0	5564	0.181	0.181	0	0
5565	0.181	0.181	0	0	5566	0.189	0.189	0	0
5567	0.189	0.189	0	0	5568	0.189	0.189	0	0
5569	0.186	0.186	0	0	5570	0.186	0.186	0	0
5571	0.186	0.186	0	0	5572	0.096	0.096	0	0
5573	0.103	0.103	0	0	5574	0.103	0.103	0	0
5575	0.096	0.096	0	0	5576	0.096	0.096	0	0
5577	0.103	0.103	0	0	5578	0.103	0.103	0	0
5579	0.095	0.095	0	0	5580	0.097	0.097	0	0
5581	0.101	0.101	0	0	5582	0.101	0.101	0	0
5583	0.097	0.097	0	0	5584	0.097	0.097	0	0
5585	0.101	0.101	0	0	5586	0.101	0.101	0	0
5587	0.096	0.096	0	0	5588	0.179	0.179	0	0
5589	0.179	0.179	0	0	5590	0.179	0.179	0	0
5591	0.179	0.179	0	0	5592	0.179	0.179	0	0
5593	0.179	0.179	0	0	5594	0.179	0.179	0	0
5595	0.179	0.179	0	0	5596	0.178	0.178	0	0
5597	0.178	0.178	0	0	5598	0.178	0.178	0	0
5599	0.178	0.178	0	0	5600	0.178	0.178	0	0
5601	0.178	0.178	0	0	5602	0.178	0.178	0	0
5603	0.178	0.178	0	0	5604	0.178	0.178	0	0
5605	0.178	0.178	0	0	5606	0.179	0.179	0	0
5607	0.178	0.178	0	0	5608	0.18	0.18	0	0
5609	0.18	0.18	0	0	5610	0.181	0.181	0	0
5611	0.182	0.182	0	0	5612	0.182	0.182	0	0
5613	0.184	0.184	0	0	5614	0.187	0.187	0	0
5615	0.187	0.187	0	0	5616	0.187	0.187	0	0
5617	0.187	0.187	0	0	5618	0.188	0.188	0	0
5619	0.188	0.188	0	0	5620	0.188	0.188	0	0
5621	0.188	0.188	0	0	5622	0.185	0.185	0	0
5623	0.185	0.185	0	0	5624	0.185	0.185	0	0
5625	0.185	0.185	0	0	5626	0.185	0.185	0	0
5627	0.185	0.185	0	0	5628	0.185	0.185	0	0
5629	0.185	0.185	0	0	5630	0.181	0.181	0	0
5631	0.181	0.181	0	0	5632	0.181	0.181	0	0
5633	0.181	0.181	0	0	5634	0.181	0.181	0	0
5635	0.181	0.181	0	0	5636	0.181	0.181	0	0
5637	0.181	0.181	0	0	5638	0.178	0.178	0	0
5639	0.178	0.178	0	0	5640	0.178	0.178	0	0
5641	0.178	0.178	0	0	5642	0.178	0.178	0	0
5643	0.178	0.178	0	0	5644	0.178	0.178	0	0
5645	0.178	0.178	0	0	5646	0.178	0.178	0	0
5647	0.178	0.178	0	0	5648	0.178	0.178	0	0
5649	0.178	0.178	0	0	5650	0.18	0.18	0	0
5651	0.18	0.18	0	0	5652	0.18	0.18	0	0
5653	0.18	0.18	0	0	5654	0.18	0.18	0	0
5655	0.18	0.18	0	0	5656	0.182	0.182	0	0
5657	0.182	0.182	0	0	5658	0.182	0.182	0	0
5659	0.182	0.182	0	0	5660	0.182	0.182	0	0
5661	0.182	0.182	0	0	5662	0.186	0.186	0	0
5663	0.186	0.186	0	0	5664	0.186	0.186	0	0
5665	0.186	0.186	0	0	5666	0.186	0.186	0	0
5667	0.186	0.186	0	0	5668	0.179	0.179	0	0
5669	0.179	0.179	0	0	5670	0.179	0.179	0	0
5671	0.179	0.179	0	0	5672	0.179	0.179	0	0
5673	0.179	0.179	0	0	5674	0.179	0.179	0	0
5675	0.179	0.179	0	0	5676	0.094	0.094	0	0
5677	0.096	0.096	0	0	5678	0.096	0.096	0	0
5679	0.094	0.094	0	0	5680	0.094	0.094	0	0
5681	0.096	0.096	0	0	5682	0.096	0.096	0	0
5683	0.091	0.091	0	0	5684	0.095	0.095	0	0
5685	0.095	0.095	0	0	5686	0.095	0.095	0	0
5687	0.094	0.094	0	0	5688	0.095	0.095	0	0
5689	0.095	0.095	0	0	5690	0.095	0.095	0	0
5691	0.091	0.091	0	0	5692	0.178	0.178	0	0
5693	0.178	0.178	0	0	5694	0.178	0.178	0	0
5695	0.178	0.178	0	0	5696	0.178	0.178	0	0
5697	0.178	0.178	0	0	5698	0.178	0.178	0	0
5699	0.178	0.178	0	0	5700	0.181	0.181	0	0
5701	0.18	0.18	0	0	5702	0.181	0.181	0	0
5703	0.181	0.181	0	0	5704	0.181	0.181	0	0
5705	0.181	0.181	0	0	5706	0.181	0.181	0	0
5707	0.182	0.182	0	0	5708	0.178	0.178	0	0
5709	0.18	0.18	0	0	5710	0.182	0.182	0	0
5711	0.182	0.182	0	0	5712	0.182	0.182	0	0
5713	0.182	0.182	0	0	5714	0.183	0.183	0	0
5715	0.183	0.183	0	0	5716	0.183	0.183	0	0
5717	0.183	0.183	0	0	5718	0.185	0.185	0	0
5719	0.185	0.185	0	0	5720	0.185	0.185	0	0
5721	0.185	0.185	0	0	5722	0.185	0.185	0	0
5723	0.185	0.185	0	0	5724	0.185	0.185	0	0
5725	0.185	0.185	0	0	5726	0.18	0.18	0	0
5727	0.18	0.18	0	0	5728	0.18	0.18	0	0
5729	0.18	0.18	0	0	5730	0.18	0.18	0	0
5731	0.18	0.18	0	0	5732	0.18	0.18	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
5733	0.18	0.18	0	0	5734	0.177	0.177	0	0
5735	0.177	0.177	0	0	5736	0.177	0.177	0	0
5737	0.177	0.177	0	0	5738	0.177	0.177	0	0
5739	0.177	0.177	0	0	5740	0.177	0.177	0	0
5741	0.177	0.177	0	0	5742	0.177	0.177	0	0
5743	0.177	0.177	0	0	5744	0.177	0.177	0	0
5745	0.177	0.177	0	0	5746	0.178	0.178	0	0
5747	0.178	0.178	0	0	5748	0.178	0.178	0	0
5749	0.178	0.178	0	0	5750	0.178	0.178	0	0
5751	0.178	0.178	0	0	5752	0.178	0.178	0	0
5753	0.178	0.178	0	0	5754	0.179	0.179	0	0
5755	0.179	0.179	0	0	5756	0.179	0.179	0	0
5757	0.179	0.179	0	0	5758	0.179	0.179	0	0
5759	0.179	0.179	0	0	5760	0.182	0.182	0	0
5761	0.182	0.182	0	0	5762	0.182	0.182	0	0
5763	0.182	0.182	0	0	5764	0.182	0.182	0	0
5765	0.182	0.182	0	0	5766	0.177	0.177	0	0
5767	0.177	0.177	0	0	5768	0.177	0.177	0	0
5769	0.177	0.177	0	0	5770	0.177	0.177	0	0
5771	0.177	0.177	0	0	5772	0.177	0.177	0	0
5773	0.177	0.177	0	0	5774	0.185	0.185	0	0
5775	0.185	0.185	0	0	5776	0.185	0.185	0	0
5777	0.185	0.185	0	0	5778	0.185	0.185	0	0
5779	0.185	0.185	0	0	5780	0.093	0.093	0	0
5781	0.094	0.094	0	0	5782	0.094	0.094	0	0
5783	0.093	0.093	0	0	5784	0.093	0.093	0	0
5785	0.094	0.094	0	0	5786	0.094	0.094	0	0
5787	0.09	0.09	0	0	5788	0.094	0.094	0	0
5789	0.093	0.093	0	0	5790	0.093	0.093	0	0
5791	0.094	0.094	0	0	5792	0.094	0.094	0	0
5793	0.093	0.093	0	0	5794	0.093	0.093	0	0
5795	0.088	0.088	0	0	5796	0.182	0.182	0	0
5797	0.184	0.184	0	0	5798	0.181	0.181	0	0
5799	0.183	0.183	0	0	5800	0.181	0.181	0	0
5801	0.182	0.182	0	0	5802	0.182	0.182	0	0
5803	0.181	0.181	0	0	5804	0.177	0.177	0	0
5805	0.179	0.179	0	0	5806	0.173	0.173	0	0
5807	0.173	0.173	0	0	5808	0.173	0.173	0	0
5809	0.173	0.173	0	0	5810	0.173	0.173	0	0
5811	0.173	0.173	0	0	5812	0.176	0.176	0	0
5813	0.176	0.176	0	0	5814	0.176	0.176	0	0
5815	0.176	0.176	0	0	5816	0.176	0.176	0	0
5817	0.176	0.176	0	0	5818	0.176	0.176	0	0
5819	0.176	0.176	0	0	5820	0.174	0.174	0	0
5821	0.174	0.174	0	0	5822	0.174	0.174	0	0
5823	0.174	0.174	0	0	5824	0.174	0.174	0	0
5825	0.174	0.174	0	0	5826	0.174	0.174	0	0
5827	0.174	0.174	0	0	5828	0.174	0.174	0	0
5829	0.174	0.174	0	0	5830	0.174	0.174	0	0
5831	0.174	0.174	0	0	5832	0.174	0.174	0	0
5833	0.174	0.174	0	0	5834	0.174	0.174	0	0
5835	0.174	0.174	0	0	5836	0.174	0.174	0	0
5837	0.174	0.174	0	0	5838	0.174	0.174	0	0
5839	0.174	0.174	0	0	5840	0.174	0.174	0	0
5841	0.174	0.174	0	0	5842	0.176	0.176	0	0
5843	0.176	0.176	0	0	5844	0.176	0.176	0	0
5845	0.175	0.175	0	0	5846	0.175	0.175	0	0
5847	0.175	0.175	0	0	5848	0.178	0.178	0	0
5849	0.178	0.178	0	0	5850	0.178	0.178	0	0
5851	0.178	0.178	0	0	5852	0.178	0.178	0	0
5853	0.178	0.178	0	0	5854	0.178	0.178	0	0
5855	0.178	0.178	0	0	5856	0.178	0.178	0	0
5857	0.178	0.178	0	0	5858	0.178	0.178	0	0
5859	0.178	0.178	0	0	5860	0.178	0.178	0	0
5861	0.178	0.178	0	0	5862	0.182	0.182	0	0
5863	0.182	0.182	0	0	5864	0.182	0.182	0	0
5865	0.182	0.182	0	0	5866	0.182	0.182	0	0
5867	0.182	0.182	0	0	5868	0.182	0.182	0	0
5869	0.182	0.182	0	0	5870	0.182	0.182	0	0
5871	0.182	0.182	0	0	5872	0.182	0.182	0	0
5873	0.182	0.182	0	0	5874	0.182	0.182	0	0
5875	0.182	0.182	0	0	5876	0.093	0.093	0	0
5877	0.092	0.092	0	0	5878	0.092	0.092	0	0
5879	0.093	0.093	0	0	5880	0.093	0.093	0	0
5881	0.092	0.092	0	0	5882	0.092	0.092	0	0
5883	0.088	0.088	0	0	5884	0.093	0.093	0	0
5885	0.092	0.092	0	0	5886	0.092	0.092	0	0
5887	0.093	0.093	0	0	5888	0.093	0.093	0	0
5889	0.092	0.092	0	0	5890	0.092	0.092	0	0
5891	0.086	0.086	0	0	5892	0.18	0.18	0	0
5893	0.178	0.178	0	0	5894	0.182	0.182	0	0
5895	0.181	0.181	0	0	5896	0.178	0.178	0	0
5897	0.18	0.18	0	0	5898	0.18	0.18	0	0
5899	0.179	0.179	0	0	5900	0.176	0.176	0	0
5901	0.177	0.177	0	0	5902	0.171	0.171	0	0
5903	0.171	0.171	0	0	5904	0.171	0.171	0	0
5905	0.171	0.171	0	0	5906	0.171	0.171	0	0
5907	0.171	0.171	0	0	5908	0.171	0.171	0	0
5909	0.171	0.171	0	0	5910	0.171	0.171	0	0
5911	0.171	0.171	0	0	5912	0.171	0.171	0	0
5913	0.171	0.171	0	0	5914	0.171	0.171	0	0
5915	0.171	0.171	0	0	5916	0.165	0.165	0	0
5917	0.165	0.165	0	0	5918	0.165	0.165	0	0
5919	0.165	0.165	0	0	5920	0.165	0.165	0	0
5921	0.165	0.165	0	0	5922	0.166	0.166	0	0
5923	0.166	0.166	0	0	5924	0.166	0.166	0	0
5925	0.166	0.166	0	0	5926	0.166	0.166	0	0
5927	0.166	0.166	0	0	5928	0.166	0.166	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
5929	0.166	0.166	0	0	5930	0.166	0.166	0	0
5931	0.166	0.166	0	0	5932	0.166	0.166	0	0
5933	0.166	0.166	0	0	5934	0.166	0.166	0	0
5935	0.166	0.166	0	0	5936	0.166	0.166	0	0
5937	0.166	0.166	0	0	5938	0.165	0.165	0	0
5939	0.165	0.165	0	0	5940	0.165	0.165	0	0
5941	0.166	0.166	0	0	5942	0.166	0.166	0	0
5943	0.166	0.166	0	0	5944	0.168	0.168	0	0
5945	0.168	0.168	0	0	5946	0.168	0.168	0	0
5947	0.168	0.168	0	0	5948	0.168	0.168	0	0
5949	0.168	0.168	0	0	5950	0.168	0.168	0	0
5951	0.168	0.168	0	0	5952	0.167	0.167	0	0
5953	0.167	0.167	0	0	5954	0.167	0.167	0	0
5955	0.168	0.168	0	0	5956	0.168	0.168	0	0
5957	0.168	0.168	0	0	5958	0.177	0.177	0	0
5959	0.177	0.177	0	0	5960	0.177	0.177	0	0
5961	0.177	0.177	0	0	5962	0.178	0.178	0	0
5963	0.178	0.178	0	0	5964	0.178	0.178	0	0
5965	0.178	0.178	0	0	5966	0.178	0.178	0	0
5967	0.178	0.178	0	0	5968	0.178	0.178	0	0
5969	0.177	0.177	0	0	5970	0.177	0.177	0	0
5971	0.177	0.177	0	0	5972	0.092	0.092	0	0
5973	0.091	0.091	0	0	5974	0.091	0.091	0	0
5975	0.092	0.092	0	0	5976	0.092	0.092	0	0
5977	0.091	0.091	0	0	5978	0.091	0.091	0	0
5979	0.087	0.087	0	0	5980	0.092	0.092	0	0
5981	0.091	0.091	0	0	5982	0.091	0.091	0	0
5983	0.092	0.092	0	0	5984	0.092	0.092	0	0
5985	0.091	0.091	0	0	5986	0.091	0.091	0	0
5987	0.084	0.084	0	0	5988	0.172	0.172	0	0
5989	0.17	0.17	0	0	5990	0.173	0.173	0	0
5991	0.17	0.17	0	0	5992	0.17	0.17	0	0
5993	0.17	0.17	0	0	5994	0.171	0.171	0	0
5995	0.167	0.167	0	0	5996	0.154	0.154	0	0
5997	0.154	0.154	0	0	5998	0.154	0.154	0	0
5999	0.155	0.155	0	0	6000	0.155	0.155	0	0
6001	0.155	0.155	0	0	6002	0.153	0.153	0	0
6003	0.153	0.153	0	0	6004	0.153	0.153	0	0
6005	0.153	0.153	0	0	6006	0.153	0.153	0	0
6007	0.153	0.153	0	0	6008	0.154	0.154	0	0
6009	0.154	0.154	0	0	6010	0.154	0.154	0	0
6011	0.154	0.154	0	0	6012	0.154	0.154	0	0
6013	0.154	0.154	0	0	6014	0.154	0.154	0	0
6015	0.154	0.154	0	0	6016	0.154	0.154	0	0
6017	0.154	0.154	0	0	6018	0.154	0.154	0	0
6019	0.154	0.154	0	0	6020	0.154	0.154	0	0
6021	0.154	0.154	0	0	6022	0.154	0.154	0	0
6023	0.154	0.154	0	0	6024	0.154	0.154	0	0
6025	0.154	0.154	0	0	6026	0.154	0.154	0	0
6027	0.155	0.155	0	0	6028	0.155	0.155	0	0
6029	0.155	0.155	0	0	6030	0.155	0.155	0	0
6031	0.155	0.155	0	0	6032	0.155	0.155	0	0
6033	0.155	0.155	0	0	6034	0.155	0.155	0	0
6035	0.155	0.155	0	0	6036	0.155	0.155	0	0
6037	0.155	0.155	0	0	6038	0.16	0.16	0	0
6039	0.16	0.16	0	0	6040	0.16	0.16	0	0
6041	0.16	0.16	0	0	6042	0.16	0.16	0	0
6043	0.16	0.16	0	0	6044	0.16	0.16	0	0
6045	0.16	0.16	0	0	6046	0.16	0.16	0	0
6047	0.16	0.16	0	0	6048	0.16	0.16	0	0
6049	0.159	0.159	0	0	6050	0.159	0.159	0	0
6051	0.159	0.159	0	0	6052	0.17	0.17	0	0
6053	0.169	0.169	0	0	6054	0.169	0.169	0	0
6055	0.169	0.169	0	0	6056	0.169	0.169	0	0
6057	0.169	0.169	0	0	6058	0.171	0.171	0	0
6059	0.171	0.171	0	0	6060	0.171	0.171	0	0
6061	0.171	0.171	0	0	6062	0.17	0.17	0	0
6063	0.17	0.17	0	0	6064	0.17	0.17	0	0
6065	0.169	0.169	0	0	6066	0.169	0.169	0	0
6067	0.169	0.169	0	0	6068	0.092	0.092	0	0
6069	0.089	0.089	0	0	6070	0.089	0.089	0	0
6071	0.092	0.092	0	0	6072	0.092	0.092	0	0
6073	0.089	0.089	0	0	6074	0.089	0.089	0	0
6075	0.088	0.088	0	0	6076	0.091	0.091	0	0
6077	0.09	0.09	0	0	6078	0.09	0.09	0	0
6079	0.091	0.091	0	0	6080	0.091	0.091	0	0
6081	0.09	0.09	0	0	6082	0.09	0.09	0	0
6083	0.085	0.085	0	0	6084	0.162	0.162	0	0
6085	0.161	0.161	0	0	6086	0.16	0.16	0	0
6087	0.158	0.158	0	0	6088	0.158	0.158	0	0
6089	0.154	0.154	0	0	6090	0.154	0.154	0	0
6091	0.148	0.148	0	0	6092	0.143	0.143	0	0
6093	0.143	0.143	0	0	6094	0.143	0.143	0	0
6095	0.143	0.143	0	0	6096	0.143	0.143	0	0
6097	0.143	0.143	0	0	6098	0.143	0.143	0	0
6099	0.143	0.143	0	0	6100	0.143	0.143	0	0
6101	0.143	0.143	0	0	6102	0.143	0.143	0	0
6103	0.142	0.142	0	0	6104	0.142	0.142	0	0
6105	0.142	0.142	0	0	6106	0.142	0.142	0	0
6107	0.142	0.142	0	0	6108	0.142	0.142	0	0
6109	0.142	0.142	0	0	6110	0.142	0.142	0	0
6111	0.142	0.142	0	0	6112	0.142	0.142	0	0
6113	0.141	0.141	0	0	6114	0.141	0.141	0	0
6115	0.141	0.141	0	0	6116	0.142	0.142	0	0
6117	0.142	0.142	0	0	6118	0.142	0.142	0	0
6119	0.142	0.142	0	0	6120	0.141	0.141	0	0
6121	0.141	0.141	0	0	6122	0.141	0.141	0	0
6123	0.141	0.141	0	0	6124	0.142	0.142	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
6125	0.142	0.142	0	0	6126	0.142	0.142	0	0
6127	0.142	0.142	0	0	6128	0.142	0.142	0	0
6129	0.142	0.142	0	0	6130	0.141	0.141	0	0
6131	0.141	0.141	0	0	6132	0.141	0.141	0	0
6133	0.141	0.141	0	0	6134	0.144	0.144	0	0
6135	0.144	0.144	0	0	6136	0.144	0.144	0	0
6137	0.144	0.144	0	0	6138	0.143	0.143	0	0
6139	0.143	0.143	0	0	6140	0.143	0.143	0	0
6141	0.144	0.144	0	0	6142	0.144	0.144	0	0
6143	0.144	0.144	0	0	6144	0.144	0.144	0	0
6145	0.143	0.143	0	0	6146	0.143	0.143	0	0
6147	0.143	0.143	0	0	6148	0.145	0.145	0	0
6149	0.136	0.136	0	0	6150	0.145	0.145	0	0
6151	0.145	0.145	0	0	6152	0.145	0.145	0	0
6153	0.145	0.145	0	0	6154	0.147	0.147	0	0
6155	0.147	0.147	0	0	6156	0.147	0.147	0	0
6157	0.147	0.147	0	0	6158	0.144	0.144	0	0
6159	0.144	0.144	0	0	6160	0.144	0.144	0	0
6161	0.142	0.142	0	0	6162	0.142	0.142	0	0
6163	0.142	0.142	0	0	6164	0.018	0.018	0	0
6165	0.018	0.018	0	0	6166	0.018	0.018	0	0
6167	0.018	0.018	0	0	6168	0.018	0.018	0	0
6169	0.018	0.018	0	0	6170	0.018	0.018	0	0
6171	0.018	0.018	0	0	6172	0.036	0.036	0	0
6173	0.036	0.036	0	0	6174	0.036	0.036	0	0
6175	0.036	0.036	0	0	6176	0.036	0.036	0	0
6177	0.036	0.036	0	0	6178	0.036	0.036	0	0
6179	0.036	0.036	0	0	6180	0.036	0.036	0	0
6181	0.036	0.036	0	0	6182	0.036	0.036	0	0
6183	0.036	0.036	0	0	6184	0.036	0.036	0	0
6185	0.036	0.036	0	0	6186	0.036	0.036	0	0
6187	0.036	0.036	0	0	6188	0.087	0.087	0	0
6189	0.082	0.082	0	0	6190	0.082	0.082	0	0
6191	0.087	0.087	0	0	6192	0.087	0.087	0	0
6193	0.082	0.082	0	0	6194	0.082	0.082	0	0
6195	0.092	0.092	0	0	6196	0.086	0.086	0	0
6197	0.084	0.084	0	0	6198	0.084	0.084	0	0
6199	0.086	0.086	0	0	6200	0.086	0.086	0	0
6201	0.084	0.084	0	0	6202	0.084	0.084	0	0
6203	0.084	0.084	0	0	6204	0.036	0.036	0	0
6205	0.036	0.036	0	0	6206	0.036	0.036	0	0
6207	0.036	0.036	0	0	6208	0.036	0.036	0	0
6209	0.036	0.036	0	0	6210	0.036	0.036	0	0
6211	0.036	0.036	0	0	6212	0.036	0.036	0	0
6213	0.036	0.036	0	0	6214	0.036	0.036	0	0
6215	0.036	0.036	0	0	6216	0.036	0.036	0	0
6217	0.036	0.036	0	0	6218	0.036	0.036	0	0
6219	0.036	0.036	0	0	6220	0.018	0.018	0	0
6221	0.018	0.018	0	0	6222	0.018	0.018	0	0
6223	0.018	0.018	0	0	6224	0.018	0.018	0	0
6225	0.018	0.018	0	0	6226	0.018	0.018	0	0
6227	0.018	0.018	0	0	6228	0.031	0.031	0	0
6229	0.06	0.06	0	0	6230	0.061	0.061	0	0
6231	0.064	0.064	0	0	6232	0.064	0.064	0	0
6233	0.065	0.065	0	0	6234	0.065	0.065	0	0
6235	0.065	0.065	0	0	6236	0.065	0.065	0	0
6237	0.065	0.065	0	0	6238	0.065	0.065	0	0
6239	0.065	0.065	0	0	6240	0.064	0.064	0	0
6241	0.064	0.064	0	0	6242	0.064	0.064	0	0
6243	0.064	0.064	0	0	6244	0.064	0.064	0	0
6245	0.065	0.065	0	0	6246	0.065	0.065	0	0
6247	0.065	0.065	0	0	6248	0.065	0.065	0	0
6249	0.065	0.065	0	0	6250	0.065	0.065	0	0
6251	0.065	0.065	0	0	6252	0.064	0.064	0	0
6253	0.064	0.064	0	0	6254	0.064	0.064	0	0
6255	0.064	0.064	0	0	6256	0.064	0.064	0	0
6257	0.065	0.065	0	0	6258	0.065	0.065	0	0
6259	0.065	0.065	0	0	6260	0.065	0.065	0	0
6261	0.065	0.065	0	0	6262	0.065	0.065	0	0
6263	0.065	0.065	0	0	6264	0.064	0.064	0	0
6265	0.064	0.064	0	0	6266	0.061	0.061	0	0
6267	0.06	0.06	0	0	6268	0.031	0.031	0	0
6269	0.031	0.031	0	0	6270	0.06	0.06	0	0
6271	0.061	0.061	0	0	6272	0.064	0.064	0	0
6273	0.064	0.064	0	0	6274	0.065	0.065	0	0
6275	0.065	0.065	0	0	6276	0.065	0.065	0	0
6277	0.065	0.065	0	0	6278	0.065	0.065	0	0
6279	0.065	0.065	0	0	6280	0.065	0.065	0	0
6281	0.064	0.064	0	0	6282	0.064	0.064	0	0
6283	0.064	0.064	0	0	6284	0.064	0.064	0	0
6285	0.064	0.064	0	0	6286	0.065	0.065	0	0
6287	0.065	0.065	0	0	6288	0.065	0.065	0	0
6289	0.065	0.065	0	0	6290	0.065	0.065	0	0
6291	0.065	0.065	0	0	6292	0.065	0.065	0	0
6293	0.064	0.064	0	0	6294	0.064	0.064	0	0
6295	0.064	0.064	0	0	6296	0.066	0.066	0	0
6297	0.066	0.066	0	0	6298	0.066	0.066	0	0
6299	0.066	0.066	0	0	6300	0.066	0.066	0	0
6301	0.066	0.066	0	0	6302	0.066	0.066	0	0
6303	0.066	0.066	0	0	6304	0.066	0.066	0	0
6305	0.066	0.066	0	0	6306	0.066	0.066	0	0
6307	0.033	0.033	0	0	6308	0.124	0.124	0	0
6309	0.128	0.128	0	0	6310	0.128	0.128	0	0
6311	0.123	0.123	0	0	6312	0.124	0.124	0	0
6313	0.128	0.128	0	0	6314	0.129	0.129	0	0
6315	0.065	0.065	0	0	6316	0.128	0.128	0	0
6317	0.129	0.129	0	0	6318	0.128	0.128	0	0
6319	0.129	0.129	0	0	6320	0.128	0.128	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
6321	0.129	0.129	0	0	6322	0.128	0.128	0	0
6323	0.129	0.129	0	0	6324	0.128	0.128	0	0
6325	0.129	0.129	0	0	6326	0.132	0.132	0	0
6327	0.132	0.132	0	0	6328	0.13	0.13	0	0
6329	0.13	0.13	0	0	6330	0.13	0.13	0	0
6331	0.13	0.13	0	0	6332	0.13	0.13	0	0
6333	0.13	0.13	0	0	6334	0.13	0.13	0	0
6335	0.13	0.13	0	0	6336	0.13	0.13	0	0
6337	0.13	0.13	0	0	6338	0.133	0.133	0	0
6339	0.133	0.133	0	0	6340	0.13	0.13	0	0
6341	0.13	0.13	0	0	6342	0.13	0.13	0	0
6343	0.13	0.13	0	0	6344	0.13	0.13	0	0
6345	0.13	0.13	0	0	6346	0.13	0.13	0	0
6347	0.13	0.13	0	0	6348	0.13	0.13	0	0
6349	0.13	0.13	0	0	6350	0.133	0.133	0	0
6351	0.133	0.133	0	0	6352	0.13	0.13	0	0
6353	0.13	0.13	0	0	6354	0.13	0.13	0	0
6355	0.13	0.13	0	0	6356	0.13	0.13	0	0
6357	0.13	0.13	0	0	6358	0.13	0.13	0	0
6359	0.13	0.13	0	0	6360	0.13	0.13	0	0
6361	0.13	0.13	0	0	6362	0.133	0.133	0	0
6363	0.133	0.133	0	0	6364	0.13	0.13	0	0
6365	0.13	0.13	0	0	6366	0.13	0.13	0	0
6367	0.13	0.13	0	0	6368	0.13	0.13	0	0
6369	0.13	0.13	0	0	6370	0.13	0.13	0	0
6371	0.13	0.13	0	0	6372	0.13	0.13	0	0
6373	0.13	0.13	0	0	6374	0.133	0.133	0	0
6375	0.133	0.133	0	0	6376	0.13	0.13	0	0
6377	0.13	0.13	0	0	6378	0.13	0.13	0	0
6379	0.13	0.13	0	0	6380	0.13	0.13	0	0
6381	0.133	0.133	0	0	6382	0.121	0.121	0	0
6383	0.121	0.121	0	0	6384	0.121	0.121	0	0
6385	0.061	0.061	0	0	6386	0.061	0.061	0	0
6387	0.061	0.061	0	0	6388	0.124	0.124	0	0
6389	0.129	0.129	0	0	6390	0.129	0.129	0	0
6391	0.124	0.124	0	0	6392	0.124	0.124	0	0
6393	0.129	0.129	0	0	6394	0.13	0.13	0	0
6395	0.066	0.066	0	0	6396	0.13	0.13	0	0
6397	0.131	0.131	0	0	6398	0.13	0.13	0	0
6399	0.131	0.131	0	0	6400	0.13	0.13	0	0
6401	0.131	0.131	0	0	6402	0.13	0.13	0	0
6403	0.131	0.131	0	0	6404	0.13	0.13	0	0
6405	0.131	0.131	0	0	6406	0.134	0.134	0	0
6407	0.134	0.134	0	0	6408	0.132	0.132	0	0
6409	0.132	0.132	0	0	6410	0.132	0.132	0	0
6411	0.132	0.132	0	0	6412	0.132	0.132	0	0
6413	0.132	0.132	0	0	6414	0.132	0.132	0	0
6415	0.132	0.132	0	0	6416	0.132	0.132	0	0
6417	0.132	0.132	0	0	6418	0.135	0.135	0	0
6419	0.135	0.135	0	0	6420	0.132	0.132	0	0
6421	0.132	0.132	0	0	6422	0.132	0.132	0	0
6423	0.132	0.132	0	0	6424	0.132	0.132	0	0
6425	0.132	0.132	0	0	6426	0.132	0.132	0	0
6427	0.132	0.132	0	0	6428	0.132	0.132	0	0
6429	0.132	0.132	0	0	6430	0.136	0.136	0	0
6431	0.136	0.136	0	0	6432	0.133	0.133	0	0
6433	0.133	0.133	0	0	6434	0.133	0.133	0	0
6435	0.133	0.133	0	0	6436	0.133	0.133	0	0
6437	0.133	0.133	0	0	6438	0.133	0.133	0	0
6439	0.133	0.133	0	0	6440	0.133	0.133	0	0
6441	0.133	0.133	0	0	6442	0.136	0.136	0	0
6443	0.136	0.136	0	0	6444	0.133	0.133	0	0
6445	0.133	0.133	0	0	6446	0.133	0.133	0	0
6447	0.133	0.133	0	0	6448	0.133	0.133	0	0
6449	0.133	0.133	0	0	6450	0.133	0.133	0	0
6451	0.133	0.133	0	0	6452	0.133	0.133	0	0
6453	0.133	0.133	0	0	6454	0.136	0.136	0	0
6455	0.136	0.136	0	0	6456	0.133	0.133	0	0
6457	0.133	0.133	0	0	6458	0.133	0.133	0	0
6459	0.133	0.133	0	0	6460	0.133	0.133	0	0
6461	0.136	0.136	0	0	6462	0.122	0.122	0	0
6463	0.121	0.121	0	0	6464	0.122	0.122	0	0
6465	0.061	0.061	0	0	6466	0.061	0.061	0	0
6467	0.061	0.061	0	0	6468	0.135	0.135	0	0
6469	0.14	0.14	0	0	6470	0.14	0.14	0	0
6471	0.135	0.135	0	0	6472	0.135	0.135	0	0
6473	0.14	0.14	0	0	6474	0.142	0.142	0	0
6475	0.072	0.072	0	0	6476	0.136	0.136	0	0
6477	0.136	0.136	0	0	6478	0.136	0.136	0	0
6479	0.136	0.136	0	0	6480	0.136	0.136	0	0
6481	0.136	0.136	0	0	6482	0.136	0.136	0	0
6483	0.136	0.136	0	0	6484	0.136	0.136	0	0
6485	0.136	0.136	0	0	6486	0.139	0.139	0	0
6487	0.14	0.14	0	0	6488	0.125	0.125	0	0
6489	0.125	0.125	0	0	6490	0.125	0.125	0	0
6491	0.136	0.136	0	0	6492	0.136	0.136	0	0
6493	0.136	0.136	0	0	6494	0.136	0.136	0	0
6495	0.136	0.136	0	0	6496	0.136	0.136	0	0
6497	0.136	0.136	0	0	6498	0.136	0.136	0	0
6499	0.136	0.136	0	0	6500	0.136	0.136	0	0
6501	0.139	0.139	0	0	6502	0.139	0.139	0	0
6503	0.135	0.135	0	0	6504	0.135	0.135	0	0
6505	0.135	0.135	0	0	6506	0.135	0.135	0	0
6507	0.135	0.135	0	0	6508	0.135	0.135	0	0
6509	0.135	0.135	0	0	6510	0.135	0.135	0	0
6511	0.135	0.135	0	0	6512	0.135	0.135	0	0
6513	0.139	0.139	0	0	6514	0.139	0.139	0	0
6515	0.135	0.135	0	0	6516	0.135	0.135	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
6517	0.135	0.135	0	0	6518	0.135	0.135	0	0
6519	0.135	0.135	0	0	6520	0.135	0.135	0	0
6521	0.135	0.135	0	0	6522	0.135	0.135	0	0
6523	0.135	0.135	0	0	6524	0.135	0.135	0	0
6525	0.139	0.139	0	0	6526	0.139	0.139	0	0
6527	0.135	0.135	0	0	6528	0.135	0.135	0	0
6529	0.135	0.135	0	0	6530	0.135	0.135	0	0
6531	0.135	0.135	0	0	6532	0.135	0.135	0	0
6533	0.135	0.135	0	0	6534	0.135	0.135	0	0
6535	0.135	0.135	0	0	6536	0.135	0.135	0	0
6537	0.139	0.139	0	0	6538	0.139	0.139	0	0
6539	0.135	0.135	0	0	6540	0.135	0.135	0	0
6541	0.135	0.135	0	0	6542	0.135	0.135	0	0
6543	0.135	0.135	0	0	6544	0.139	0.139	0	0
6545	0.062	0.062	0	0	6546	0.062	0.062	0	0
6547	0.062	0.062	0	0	6548	0.127	0.127	0	0
6549	0.128	0.128	0	0	6550	0.127	0.127	0	0
6551	0.258	0.258	0	0	6552	0.391	0.391	0	0
6553	0.388	0.388	0	0	6554	0.387	0.387	0	0
6555	0.387	0.387	0	0	6556	0.387	0.387	0	0
6557	0.387	0.387	0	0	6558	0.387	0.387	0	0
6559	0.387	0.387	0	0	6560	0.387	0.387	0	0
6561	0.388	0.388	0	0	6562	0.39	0.39	0	0
6563	0.389	0.389	0	0	6564	0.391	0.391	0	0
6565	0.388	0.388	0	0	6566	0.387	0.387	0	0
6567	0.387	0.387	0	0	6568	0.387	0.387	0	0
6569	0.387	0.387	0	0	6570	0.387	0.387	0	0
6571	0.387	0.387	0	0	6572	0.387	0.387	0	0
6573	0.388	0.388	0	0	6574	0.39	0.39	0	0
6575	0.389	0.389	0	0	6576	0.391	0.391	0	0
6577	0.388	0.388	0	0	6578	0.387	0.387	0	0
6579	0.387	0.387	0	0	6580	0.387	0.387	0	0
6581	0.387	0.387	0	0	6582	0.387	0.387	0	0
6583	0.387	0.387	0	0	6584	0.387	0.387	0	0
6585	0.388	0.388	0	0	6586	0.39	0.39	0	0
6587	0.258	0.258	0	0	6588	0.258	0.258	0	0
6589	0.391	0.391	0	0	6590	0.388	0.388	0	0
6591	0.387	0.387	0	0	6592	0.387	0.387	0	0
6593	0.387	0.387	0	0	6594	0.387	0.387	0	0
6595	0.387	0.387	0	0	6596	0.387	0.387	0	0
6597	0.387	0.387	0	0	6598	0.388	0.388	0	0
6599	0.39	0.39	0	0	6600	0.389	0.389	0	0
6601	0.391	0.391	0	0	6602	0.388	0.388	0	0
6603	0.387	0.387	0	0	6604	0.387	0.387	0	0
6605	0.387	0.387	0	0	6606	0.387	0.387	0	0
6607	0.387	0.387	0	0	6608	0.387	0.387	0	0
6609	0.387	0.387	0	0	6610	0.388	0.388	0	0
6611	0.39	0.39	0	0	6612	0.394	0.394	0	0
6613	0.401	0.401	0	0	6614	0.398	0.398	0	0
6615	0.397	0.397	0	0	6616	0.397	0.397	0	0
6617	0.396	0.396	0	0	6618	0.396	0.396	0	0
6619	0.396	0.396	0	0	6620	0.397	0.397	0	0
6621	0.397	0.397	0	0	6622	0.397	0.397	0	0
6623	0.4	0.4	0	0	6624	0.199	0.199	0	0
6625	0.063	0.063	0	0	6626	0.063	0.063	0	0
6627	0.063	0.063	0	0	6628	0.129	0.129	0	0
6629	0.134	0.134	0	0	6630	0.134	0.134	0	0
6631	0.134	0.134	0	0	6632	0.134	0.134	0	0
6633	0.134	0.134	0	0	6634	0.134	0.134	0	0
6635	0.134	0.134	0	0	6636	0.134	0.134	0	0
6637	0.134	0.134	0	0	6638	0.134	0.134	0	0
6639	0.134	0.134	0	0	6640	0.134	0.134	0	0
6641	0.134	0.134	0	0	6642	0.134	0.134	0	0
6643	0.134	0.134	0	0	6644	0.134	0.134	0	0
6645	0.134	0.134	0	0	6646	0.134	0.134	0	0
6647	0.134	0.134	0	0	6648	0.134	0.134	0	0
6649	0.134	0.134	0	0	6650	0.134	0.134	0	0
6651	0.134	0.134	0	0	6652	0.134	0.134	0	0
6653	0.134	0.134	0	0	6654	0.134	0.134	0	0
6655	0.134	0.134	0	0	6656	0.134	0.134	0	0
6657	0.134	0.134	0	0	6658	0.134	0.134	0	0
6659	0.134	0.134	0	0	6660	0.134	0.134	0	0
6661	0.134	0.134	0	0	6662	0.134	0.134	0	0
6663	0.134	0.134	0	0	6664	0.129	0.129	0	0
6665	0.129	0.129	0	0	6666	0.134	0.134	0	0
6667	0.134	0.134	0	0	6668	0.134	0.134	0	0
6669	0.134	0.134	0	0	6670	0.134	0.134	0	0
6671	0.134	0.134	0	0	6672	0.134	0.134	0	0
6673	0.134	0.134	0	0	6674	0.134	0.134	0	0
6675	0.134	0.134	0	0	6676	0.134	0.134	0	0
6677	0.134	0.134	0	0	6678	0.134	0.134	0	0
6679	0.134	0.134	0	0	6680	0.134	0.134	0	0
6681	0.134	0.134	0	0	6682	0.134	0.134	0	0
6683	0.134	0.134	0	0	6684	0.134	0.134	0	0
6685	0.134	0.134	0	0	6686	0.134	0.134	0	0
6687	0.134	0.134	0	0	6688	0.134	0.134	0	0
6689	0.136	0.136	0	0	6690	0.137	0.137	0	0
6691	0.137	0.137	0	0	6692	0.137	0.137	0	0
6693	0.137	0.137	0	0	6694	0.137	0.137	0	0
6695	0.137	0.137	0	0	6696	0.137	0.137	0	0
6697	0.137	0.137	0	0	6698	0.137	0.137	0	0
6699	0.137	0.137	0	0	6700	0.137	0.137	0	0
6701	0.069	0.069	0	0	6702	0.124	0.124	0	0
6703	0.124	0.124	0	0	6704	0.124	0.124	0	0
6705	0.062	0.062	0	0	6706	0.062	0.062	0	0
6707	0.062	0.062	0	0	6708	0.129	0.129	0	0
6709	0.134	0.134	0	0	6710	0.134	0.134	0	0
6711	0.134	0.134	0	0	6712	0.134	0.134	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
6713	0.134	0.134	0	0	6714	0.134	0.134	0	0
6715	0.134	0.134	0	0	6716	0.134	0.134	0	0
6717	0.134	0.134	0	0	6718	0.134	0.134	0	0
6719	0.134	0.134	0	0	6720	0.134	0.134	0	0
6721	0.134	0.134	0	0	6722	0.134	0.134	0	0
6723	0.134	0.134	0	0	6724	0.134	0.134	0	0
6725	0.134	0.134	0	0	6726	0.134	0.134	0	0
6727	0.134	0.134	0	0	6728	0.134	0.134	0	0
6729	0.134	0.134	0	0	6730	0.134	0.134	0	0
6731	0.134	0.134	0	0	6732	0.134	0.134	0	0
6733	0.134	0.134	0	0	6734	0.134	0.134	0	0
6735	0.134	0.134	0	0	6736	0.134	0.134	0	0
6737	0.134	0.134	0	0	6738	0.134	0.134	0	0
6739	0.134	0.134	0	0	6740	0.134	0.134	0	0
6741	0.134	0.134	0	0	6742	0.134	0.134	0	0
6743	0.134	0.134	0	0	6744	0.129	0.129	0	0
6745	0.129	0.129	0	0	6746	0.134	0.134	0	0
6747	0.134	0.134	0	0	6748	0.134	0.134	0	0
6749	0.134	0.134	0	0	6750	0.134	0.134	0	0
6751	0.134	0.134	0	0	6752	0.134	0.134	0	0
6753	0.134	0.134	0	0	6754	0.134	0.134	0	0
6755	0.134	0.134	0	0	6756	0.134	0.134	0	0
6757	0.134	0.134	0	0	6758	0.134	0.134	0	0
6759	0.134	0.134	0	0	6760	0.134	0.134	0	0
6761	0.134	0.134	0	0	6762	0.134	0.134	0	0
6763	0.134	0.134	0	0	6764	0.134	0.134	0	0
6765	0.134	0.134	0	0	6766	0.134	0.134	0	0
6767	0.134	0.134	0	0	6768	0.134	0.134	0	0
6769	0.136	0.136	0	0	6770	0.137	0.137	0	0
6771	0.137	0.137	0	0	6772	0.137	0.137	0	0
6773	0.137	0.137	0	0	6774	0.137	0.137	0	0
6775	0.137	0.137	0	0	6776	0.137	0.137	0	0
6777	0.137	0.137	0	0	6778	0.137	0.137	0	0
6779	0.137	0.137	0	0	6780	0.137	0.137	0	0
6781	0.069	0.069	0	0	6782	0.124	0.124	0	0
6783	0.124	0.124	0	0	6784	0.124	0.124	0	0
6785	0.062	0.062	0	0	6786	0.062	0.062	0	0
6787	0.062	0.062	0	0	6788	0.129	0.129	0	0
6789	0.134	0.134	0	0	6790	0.134	0.134	0	0
6791	0.134	0.134	0	0	6792	0.134	0.134	0	0
6793	0.134	0.134	0	0	6794	0.134	0.134	0	0
6795	0.134	0.134	0	0	6796	0.134	0.134	0	0
6797	0.134	0.134	0	0	6798	0.134	0.134	0	0
6799	0.134	0.134	0	0	6800	0.134	0.134	0	0
6801	0.134	0.134	0	0	6802	0.134	0.134	0	0
6803	0.134	0.134	0	0	6804	0.134	0.134	0	0
6805	0.134	0.134	0	0	6806	0.134	0.134	0	0
6807	0.134	0.134	0	0	6808	0.134	0.134	0	0
6809	0.134	0.134	0	0	6810	0.134	0.134	0	0
6811	0.134	0.134	0	0	6812	0.134	0.134	0	0
6813	0.134	0.134	0	0	6814	0.134	0.134	0	0
6815	0.134	0.134	0	0	6816	0.134	0.134	0	0
6817	0.134	0.134	0	0	6818	0.134	0.134	0	0
6819	0.134	0.134	0	0	6820	0.134	0.134	0	0
6821	0.134	0.134	0	0	6822	0.134	0.134	0	0
6823	0.134	0.134	0	0	6824	0.129	0.129	0	0
6825	0.129	0.129	0	0	6826	0.134	0.134	0	0
6827	0.134	0.134	0	0	6828	0.134	0.134	0	0
6829	0.134	0.134	0	0	6830	0.134	0.134	0	0
6831	0.134	0.134	0	0	6832	0.134	0.134	0	0
6833	0.134	0.134	0	0	6834	0.134	0.134	0	0
6835	0.134	0.134	0	0	6836	0.134	0.134	0	0
6837	0.134	0.134	0	0	6838	0.134	0.134	0	0
6839	0.134	0.134	0	0	6840	0.134	0.134	0	0
6841	0.134	0.134	0	0	6842	0.134	0.134	0	0
6843	0.134	0.134	0	0	6844	0.134	0.134	0	0
6845	0.134	0.134	0	0	6846	0.134	0.134	0	0
6847	0.134	0.134	0	0	6848	0.134	0.134	0	0
6849	0.136	0.136	0	0	6850	0.137	0.137	0	0
6851	0.137	0.137	0	0	6852	0.137	0.137	0	0
6853	0.137	0.137	0	0	6854	0.137	0.137	0	0
6855	0.137	0.137	0	0	6856	0.137	0.137	0	0
6857	0.137	0.137	0	0	6858	0.137	0.137	0	0
6859	0.137	0.137	0	0	6860	0.137	0.137	0	0
6861	0.069	0.069	0	0	6862	0.124	0.124	0	0
6863	0.124	0.124	0	0	6864	0.124	0.124	0	0
6865	0.062	0.062	0	0	6866	0.062	0.062	0	0
6867	0.062	0.062	0	0	6868	0.129	0.129	0	0
6869	0.134	0.134	0	0	6870	0.134	0.134	0	0
6871	0.134	0.134	0	0	6872	0.134	0.134	0	0
6873	0.134	0.134	0	0	6874	0.134	0.134	0	0
6875	0.134	0.134	0	0	6876	0.134	0.134	0	0
6877	0.134	0.134	0	0	6878	0.134	0.134	0	0
6879	0.134	0.134	0	0	6880	0.134	0.134	0	0
6881	0.134	0.134	0	0	6882	0.134	0.134	0	0
6883	0.134	0.134	0	0	6884	0.134	0.134	0	0
6885	0.134	0.134	0	0	6886	0.134	0.134	0	0
6887	0.134	0.134	0	0	6888	0.134	0.134	0	0
6889	0.134	0.134	0	0	6890	0.134	0.134	0	0
6891	0.134	0.134	0	0	6892	0.134	0.134	0	0
6893	0.134	0.134	0	0	6894	0.134	0.134	0	0
6895	0.134	0.134	0	0	6896	0.134	0.134	0	0
6897	0.134	0.134	0	0	6898	0.134	0.134	0	0
6899	0.134	0.134	0	0	6900	0.134	0.134	0	0
6901	0.134	0.134	0	0	6902	0.134	0.134	0	0
6903	0.134	0.134	0	0	6904	0.129	0.129	0	0
6905	0.129	0.129	0	0	6906	0.134	0.134	0	0
6907	0.134	0.134	0	0	6908	0.134	0.134	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
6909	0.134	0.134	0	0	6910	0.134	0.134	0	0
6911	0.134	0.134	0	0	6912	0.134	0.134	0	0
6913	0.134	0.134	0	0	6914	0.134	0.134	0	0
6915	0.134	0.134	0	0	6916	0.134	0.134	0	0
6917	0.134	0.134	0	0	6918	0.134	0.134	0	0
6919	0.134	0.134	0	0	6920	0.134	0.134	0	0
6921	0.134	0.134	0	0	6922	0.134	0.134	0	0
6923	0.134	0.134	0	0	6924	0.134	0.134	0	0
6925	0.134	0.134	0	0	6926	0.134	0.134	0	0
6927	0.134	0.134	0	0	6928	0.134	0.134	0	0
6929	0.136	0.136	0	0	6930	0.137	0.137	0	0
6931	0.137	0.137	0	0	6932	0.137	0.137	0	0
6933	0.137	0.137	0	0	6934	0.137	0.137	0	0
6935	0.137	0.137	0	0	6936	0.137	0.137	0	0
6937	0.137	0.137	0	0	6938	0.137	0.137	0	0
6939	0.137	0.137	0	0	6940	0.137	0.137	0	0
6941	0.069	0.069	0	0	6942	0.124	0.124	0	0
6943	0.124	0.124	0	0	6944	0.124	0.124	0	0
6945	0.062	0.062	0	0	6946	0.062	0.062	0	0
6947	0.062	0.062	0	0	6948	0.062	0.062	0	0
6949	0.062	0.062	0	0	6950	0.062	0.062	0	0
6951	0.124	0.124	0	0	6952	0.124	0.124	0	0
6953	0.124	0.124	0	0	6954	0.129	0.129	0	0
6955	0.134	0.134	0	0	6956	0.134	0.134	0	0
6957	0.134	0.134	0	0	6958	0.134	0.134	0	0
6959	0.134	0.134	0	0	6960	0.134	0.134	0	0
6961	0.134	0.134	0	0	6962	0.134	0.134	0	0
6963	0.134	0.134	0	0	6964	0.134	0.134	0	0
6965	0.134	0.134	0	0	6966	0.134	0.134	0	0
6967	0.134	0.134	0	0	6968	0.134	0.134	0	0
6969	0.134	0.134	0	0	6970	0.134	0.134	0	0
6971	0.134	0.134	0	0	6972	0.134	0.134	0	0
6973	0.134	0.134	0	0	6974	0.134	0.134	0	0
6975	0.134	0.134	0	0	6976	0.134	0.134	0	0
6977	0.134	0.134	0	0	6978	0.134	0.134	0	0
6979	0.134	0.134	0	0	6980	0.134	0.134	0	0
6981	0.134	0.134	0	0	6982	0.134	0.134	0	0
6983	0.134	0.134	0	0	6984	0.134	0.134	0	0
6985	0.134	0.134	0	0	6986	0.134	0.134	0	0
6987	0.134	0.134	0	0	6988	0.134	0.134	0	0
6989	0.134	0.134	0	0	6990	0.129	0.129	0	0
6991	0.129	0.129	0	0	6992	0.134	0.134	0	0
6993	0.134	0.134	0	0	6994	0.134	0.134	0	0
6995	0.134	0.134	0	0	6996	0.134	0.134	0	0
6997	0.134	0.134	0	0	6998	0.134	0.134	0	0
6999	0.134	0.134	0	0	7000	0.134	0.134	0	0
7001	0.134	0.134	0	0	7002	0.134	0.134	0	0
7003	0.134	0.134	0	0	7004	0.134	0.134	0	0
7005	0.134	0.134	0	0	7006	0.134	0.134	0	0
7007	0.134	0.134	0	0	7008	0.134	0.134	0	0
7009	0.134	0.134	0	0	7010	0.134	0.134	0	0
7011	0.134	0.134	0	0	7012	0.134	0.134	0	0
7013	0.134	0.134	0	0	7014	0.134	0.134	0	0
7015	0.136	0.136	0	0	7016	0.137	0.137	0	0
7017	0.137	0.137	0	0	7018	0.137	0.137	0	0
7019	0.137	0.137	0	0	7020	0.137	0.137	0	0
7021	0.137	0.137	0	0	7022	0.137	0.137	0	0
7023	0.137	0.137	0	0	7024	0.137	0.137	0	0
7025	0.137	0.137	0	0	7026	0.137	0.137	0	0
7027	0.069	0.069	0	0	7028	0.062	0.062	0	0
7029	0.062	0.062	0	0	7030	0.062	0.062	0	0
7031	0.124	0.124	0	0	7032	0.124	0.124	0	0
7033	0.124	0.124	0	0	7034	0.129	0.129	0	0
7035	0.134	0.134	0	0	7036	0.134	0.134	0	0
7037	0.134	0.134	0	0	7038	0.134	0.134	0	0
7039	0.134	0.134	0	0	7040	0.134	0.134	0	0
7041	0.134	0.134	0	0	7042	0.134	0.134	0	0
7043	0.134	0.134	0	0	7044	0.134	0.134	0	0
7045	0.134	0.134	0	0	7046	0.134	0.134	0	0
7047	0.134	0.134	0	0	7048	0.134	0.134	0	0
7049	0.134	0.134	0	0	7050	0.134	0.134	0	0
7051	0.134	0.134	0	0	7052	0.134	0.134	0	0
7053	0.134	0.134	0	0	7054	0.134	0.134	0	0
7055	0.134	0.134	0	0	7056	0.134	0.134	0	0
7057	0.134	0.134	0	0	7058	0.134	0.134	0	0
7059	0.134	0.134	0	0	7060	0.134	0.134	0	0
7061	0.134	0.134	0	0	7062	0.134	0.134	0	0
7063	0.134	0.134	0	0	7064	0.134	0.134	0	0
7065	0.134	0.134	0	0	7066	0.134	0.134	0	0
7067	0.134	0.134	0	0	7068	0.134	0.134	0	0
7069	0.134	0.134	0	0	7070	0.129	0.129	0	0
7071	0.129	0.129	0	0	7072	0.134	0.134	0	0
7073	0.134	0.134	0	0	7074	0.134	0.134	0	0
7075	0.134	0.134	0	0	7076	0.134	0.134	0	0
7077	0.134	0.134	0	0	7078	0.134	0.134	0	0
7079	0.134	0.134	0	0	7080	0.134	0.134	0	0
7081	0.134	0.134	0	0	7082	0.134	0.134	0	0
7083	0.134	0.134	0	0	7084	0.134	0.134	0	0
7085	0.134	0.134	0	0	7086	0.134	0.134	0	0
7087	0.134	0.134	0	0	7088	0.134	0.134	0	0
7089	0.134	0.134	0	0	7090	0.134	0.134	0	0
7091	0.134	0.134	0	0	7092	0.134	0.134	0	0
7093	0.134	0.134	0	0	7094	0.134	0.134	0	0
7095	0.136	0.136	0	0	7096	0.137	0.137	0	0
7097	0.137	0.137	0	0	7098	0.137	0.137	0	0
7099	0.137	0.137	0	0	7100	0.137	0.137	0	0
7101	0.137	0.137	0	0	7102	0.137	0.137	0	0
7103	0.137	0.137	0	0	7104	0.137	0.137	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
7105	0.137	0.137	0	0	7106	0.137	0.137	0	0
7107	0.069	0.069	0	0	7108	0.062	0.062	0	0
7109	0.062	0.062	0	0	7110	0.062	0.062	0	0
7111	0.124	0.124	0	0	7112	0.124	0.124	0	0
7113	0.124	0.124	0	0	7114	0.129	0.129	0	0
7115	0.134	0.134	0	0	7116	0.134	0.134	0	0
7117	0.134	0.134	0	0	7118	0.134	0.134	0	0
7119	0.134	0.134	0	0	7120	0.134	0.134	0	0
7121	0.134	0.134	0	0	7122	0.134	0.134	0	0
7123	0.134	0.134	0	0	7124	0.134	0.134	0	0
7125	0.134	0.134	0	0	7126	0.134	0.134	0	0
7127	0.134	0.134	0	0	7128	0.134	0.134	0	0
7129	0.134	0.134	0	0	7130	0.134	0.134	0	0
7131	0.134	0.134	0	0	7132	0.134	0.134	0	0
7133	0.134	0.134	0	0	7134	0.134	0.134	0	0
7135	0.134	0.134	0	0	7136	0.134	0.134	0	0
7137	0.134	0.134	0	0	7138	0.134	0.134	0	0
7139	0.134	0.134	0	0	7140	0.134	0.134	0	0
7141	0.134	0.134	0	0	7142	0.134	0.134	0	0
7143	0.134	0.134	0	0	7144	0.134	0.134	0	0
7145	0.134	0.134	0	0	7146	0.134	0.134	0	0
7147	0.134	0.134	0	0	7148	0.134	0.134	0	0
7149	0.134	0.134	0	0	7150	0.129	0.129	0	0
7151	0.129	0.129	0	0	7152	0.134	0.134	0	0
7153	0.134	0.134	0	0	7154	0.134	0.134	0	0
7155	0.134	0.134	0	0	7156	0.134	0.134	0	0
7157	0.134	0.134	0	0	7158	0.134	0.134	0	0
7159	0.134	0.134	0	0	7160	0.134	0.134	0	0
7161	0.134	0.134	0	0	7162	0.134	0.134	0	0
7163	0.134	0.134	0	0	7164	0.134	0.134	0	0
7165	0.134	0.134	0	0	7166	0.134	0.134	0	0
7167	0.134	0.134	0	0	7168	0.134	0.134	0	0
7169	0.134	0.134	0	0	7170	0.134	0.134	0	0
7171	0.134	0.134	0	0	7172	0.134	0.134	0	0
7173	0.134	0.134	0	0	7174	0.134	0.134	0	0
7175	0.136	0.136	0	0	7176	0.137	0.137	0	0
7177	0.137	0.137	0	0	7178	0.137	0.137	0	0
7179	0.137	0.137	0	0	7180	0.137	0.137	0	0
7181	0.137	0.137	0	0	7182	0.137	0.137	0	0
7183	0.137	0.137	0	0	7184	0.137	0.137	0	0
7185	0.137	0.137	0	0	7186	0.137	0.137	0	0
7187	0.069	0.069	0	0	7188	0.062	0.062	0	0
7189	0.062	0.062	0	0	7190	0.062	0.062	0	0
7191	0.124	0.124	0	0	7192	0.124	0.124	0	0
7193	0.124	0.124	0	0	7194	0.129	0.129	0	0
7195	0.134	0.134	0	0	7196	0.134	0.134	0	0
7197	0.134	0.134	0	0	7198	0.134	0.134	0	0
7199	0.134	0.134	0	0	7200	0.134	0.134	0	0
7201	0.134	0.134	0	0	7202	0.134	0.134	0	0
7203	0.134	0.134	0	0	7204	0.134	0.134	0	0
7205	0.134	0.134	0	0	7206	0.134	0.134	0	0
7207	0.134	0.134	0	0	7208	0.134	0.134	0	0
7209	0.134	0.134	0	0	7210	0.134	0.134	0	0
7211	0.134	0.134	0	0	7212	0.134	0.134	0	0
7213	0.134	0.134	0	0	7214	0.134	0.134	0	0
7215	0.134	0.134	0	0	7216	0.134	0.134	0	0
7217	0.134	0.134	0	0	7218	0.134	0.134	0	0
7219	0.134	0.134	0	0	7220	0.134	0.134	0	0
7221	0.134	0.134	0	0	7222	0.134	0.134	0	0
7223	0.134	0.134	0	0	7224	0.134	0.134	0	0
7225	0.134	0.134	0	0	7226	0.134	0.134	0	0
7227	0.134	0.134	0	0	7228	0.134	0.134	0	0
7229	0.134	0.134	0	0	7230	0.129	0.129	0	0
7231	0.129	0.129	0	0	7232	0.134	0.134	0	0
7233	0.134	0.134	0	0	7234	0.134	0.134	0	0
7235	0.134	0.134	0	0	7236	0.134	0.134	0	0
7237	0.134	0.134	0	0	7238	0.134	0.134	0	0
7239	0.134	0.134	0	0	7240	0.134	0.134	0	0
7241	0.134	0.134	0	0	7242	0.134	0.134	0	0
7243	0.134	0.134	0	0	7244	0.134	0.134	0	0
7245	0.134	0.134	0	0	7246	0.134	0.134	0	0
7247	0.134	0.134	0	0	7248	0.134	0.134	0	0
7249	0.134	0.134	0	0	7250	0.134	0.134	0	0
7251	0.134	0.134	0	0	7252	0.134	0.134	0	0
7253	0.134	0.134	0	0	7254	0.134	0.134	0	0
7255	0.136	0.136	0	0	7256	0.137	0.137	0	0
7257	0.137	0.137	0	0	7258	0.137	0.137	0	0
7259	0.137	0.137	0	0	7260	0.137	0.137	0	0
7261	0.137	0.137	0	0	7262	0.137	0.137	0	0
7263	0.137	0.137	0	0	7264	0.137	0.137	0	0
7265	0.137	0.137	0	0	7266	0.137	0.137	0	0
7267	0.069	0.069	0	0	7268	0.062	0.062	0	0
7269	0.062	0.062	0	0	7270	0.062	0.062	0	0
7271	0.26	0.26	0	0	7272	0.39	0.39	0	0
7273	0.388	0.388	0	0	7274	0.387	0.387	0	0
7275	0.387	0.387	0	0	7276	0.387	0.387	0	0
7277	0.387	0.387	0	0	7278	0.387	0.387	0	0
7279	0.387	0.387	0	0	7280	0.387	0.387	0	0
7281	0.388	0.388	0	0	7282	0.391	0.391	0	0
7283	0.389	0.389	0	0	7284	0.39	0.39	0	0
7285	0.388	0.388	0	0	7286	0.387	0.387	0	0
7287	0.387	0.387	0	0	7288	0.387	0.387	0	0
7289	0.387	0.387	0	0	7290	0.387	0.387	0	0
7291	0.387	0.387	0	0	7292	0.387	0.387	0	0
7293	0.388	0.388	0	0	7294	0.391	0.391	0	0
7295	0.389	0.389	0	0	7296	0.39	0.39	0	0
7297	0.388	0.388	0	0	7298	0.387	0.387	0	0
7299	0.387	0.387	0	0	7300	0.387	0.387	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
7301	0.387	0.387	0	0	7302	0.387	0.387	0	0
7303	0.387	0.387	0	0	7304	0.387	0.387	0	0
7305	0.388	0.388	0	0	7306	0.391	0.391	0	0
7307	0.26	0.26	0	0	7308	0.26	0.26	0	0
7309	0.39	0.39	0	0	7310	0.388	0.388	0	0
7311	0.387	0.387	0	0	7312	0.387	0.387	0	0
7313	0.387	0.387	0	0	7314	0.387	0.387	0	0
7315	0.387	0.387	0	0	7316	0.387	0.387	0	0
7317	0.387	0.387	0	0	7318	0.388	0.388	0	0
7319	0.391	0.391	0	0	7320	0.389	0.389	0	0
7321	0.39	0.39	0	0	7322	0.388	0.388	0	0
7323	0.387	0.387	0	0	7324	0.387	0.387	0	0
7325	0.387	0.387	0	0	7326	0.387	0.387	0	0
7327	0.387	0.387	0	0	7328	0.387	0.387	0	0
7329	0.387	0.387	0	0	7330	0.388	0.388	0	0
7331	0.391	0.391	0	0	7332	0.396	0.396	0	0
7333	0.399	0.399	0	0	7334	0.397	0.397	0	0
7335	0.397	0.397	0	0	7336	0.397	0.397	0	0
7337	0.396	0.396	0	0	7338	0.396	0.396	0	0
7339	0.396	0.396	0	0	7340	0.397	0.397	0	0
7341	0.397	0.397	0	0	7342	0.397	0.397	0	0
7343	0.399	0.399	0	0	7344	0.201	0.201	0	0
7345	0.126	0.126	0	0	7346	0.126	0.126	0	0
7347	0.126	0.126	0	0	7348	0.063	0.063	0	0
7349	0.063	0.063	0	0	7350	0.063	0.063	0	0
7351	0.135	0.135	0	0	7352	0.135	0.135	0	0
7353	0.135	0.135	0	0	7354	0.135	0.135	0	0
7355	0.135	0.135	0	0	7356	0.139	0.139	0	0
7357	0.135	0.135	0	0	7358	0.135	0.135	0	0
7359	0.135	0.135	0	0	7360	0.135	0.135	0	0
7361	0.135	0.135	0	0	7362	0.135	0.135	0	0
7363	0.135	0.135	0	0	7364	0.135	0.135	0	0
7365	0.135	0.135	0	0	7366	0.135	0.135	0	0
7367	0.139	0.139	0	0	7368	0.139	0.139	0	0
7369	0.135	0.135	0	0	7370	0.135	0.135	0	0
7371	0.135	0.135	0	0	7372	0.135	0.135	0	0
7373	0.135	0.135	0	0	7374	0.135	0.135	0	0
7375	0.135	0.135	0	0	7376	0.135	0.135	0	0
7377	0.135	0.135	0	0	7378	0.135	0.135	0	0
7379	0.139	0.139	0	0	7380	0.139	0.139	0	0
7381	0.135	0.135	0	0	7382	0.135	0.135	0	0
7383	0.135	0.135	0	0	7384	0.135	0.135	0	0
7385	0.135	0.135	0	0	7386	0.135	0.135	0	0
7387	0.135	0.135	0	0	7388	0.135	0.135	0	0
7389	0.135	0.135	0	0	7390	0.135	0.135	0	0
7391	0.139	0.139	0	0	7392	0.139	0.139	0	0
7393	0.136	0.136	0	0	7394	0.136	0.136	0	0
7395	0.136	0.136	0	0	7396	0.136	0.136	0	0
7397	0.136	0.136	0	0	7398	0.136	0.136	0	0
7399	0.136	0.136	0	0	7400	0.136	0.136	0	0
7401	0.136	0.136	0	0	7402	0.136	0.136	0	0
7403	0.139	0.139	0	0	7404	0.139	0.139	0	0
7405	0.126	0.126	0	0	7406	0.127	0.127	0	0
7407	0.126	0.126	0	0	7408	0.136	0.136	0	0
7409	0.136	0.136	0	0	7410	0.136	0.136	0	0
7411	0.136	0.136	0	0	7412	0.136	0.136	0	0
7413	0.136	0.136	0	0	7414	0.136	0.136	0	0
7415	0.136	0.136	0	0	7416	0.136	0.136	0	0
7417	0.136	0.136	0	0	7418	0.14	0.14	0	0
7419	0.141	0.141	0	0	7420	0.132	0.132	0	0
7421	0.14	0.14	0	0	7422	0.14	0.14	0	0
7423	0.132	0.132	0	0	7424	0.132	0.132	0	0
7425	0.14	0.14	0	0	7426	0.14	0.14	0	0
7427	0.071	0.071	0	0	7428	0.061	0.061	0	0
7429	0.061	0.061	0	0	7430	0.061	0.061	0	0
7431	0.121	0.121	0	0	7432	0.121	0.121	0	0
7433	0.121	0.121	0	0	7434	0.133	0.133	0	0
7435	0.133	0.133	0	0	7436	0.133	0.133	0	0
7437	0.133	0.133	0	0	7438	0.133	0.133	0	0
7439	0.136	0.136	0	0	7440	0.133	0.133	0	0
7441	0.133	0.133	0	0	7442	0.133	0.133	0	0
7443	0.133	0.133	0	0	7444	0.133	0.133	0	0
7445	0.133	0.133	0	0	7446	0.133	0.133	0	0
7447	0.133	0.133	0	0	7448	0.133	0.133	0	0
7449	0.133	0.133	0	0	7450	0.136	0.136	0	0
7451	0.136	0.136	0	0	7452	0.133	0.133	0	0
7453	0.133	0.133	0	0	7454	0.133	0.133	0	0
7455	0.133	0.133	0	0	7456	0.133	0.133	0	0
7457	0.133	0.133	0	0	7458	0.133	0.133	0	0
7459	0.133	0.133	0	0	7460	0.133	0.133	0	0
7461	0.133	0.133	0	0	7462	0.136	0.136	0	0
7463	0.136	0.136	0	0	7464	0.132	0.132	0	0
7465	0.132	0.132	0	0	7466	0.132	0.132	0	0
7467	0.132	0.132	0	0	7468	0.132	0.132	0	0
7469	0.132	0.132	0	0	7470	0.132	0.132	0	0
7471	0.132	0.132	0	0	7472	0.132	0.132	0	0
7473	0.132	0.132	0	0	7474	0.136	0.136	0	0
7475	0.136	0.136	0	0	7476	0.132	0.132	0	0
7477	0.132	0.132	0	0	7478	0.132	0.132	0	0
7479	0.132	0.132	0	0	7480	0.132	0.132	0	0
7481	0.132	0.132	0	0	7482	0.132	0.132	0	0
7483	0.132	0.132	0	0	7484	0.132	0.132	0	0
7485	0.132	0.132	0	0	7486	0.135	0.135	0	0
7487	0.135	0.135	0	0	7488	0.131	0.131	0	0
7489	0.13	0.13	0	0	7490	0.131	0.131	0	0
7491	0.13	0.13	0	0	7492	0.131	0.131	0	0
7493	0.13	0.13	0	0	7494	0.131	0.131	0	0
7495	0.13	0.13	0	0	7496	0.131	0.131	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
7497	0.13	0.13	0	0	7498	0.134	0.134	0	0
7499	0.134	0.134	0	0	7500	0.125	0.125	0	0
7501	0.129	0.129	0	0	7502	0.129	0.129	0	0
7503	0.124	0.124	0	0	7504	0.125	0.125	0	0
7505	0.129	0.129	0	0	7506	0.13	0.13	0	0
7507	0.066	0.066	0	0	7508	0.061	0.061	0	0
7509	0.061	0.061	0	0	7510	0.061	0.061	0	0
7511	0.121	0.121	0	0	7512	0.121	0.121	0	0
7513	0.121	0.121	0	0	7514	0.13	0.13	0	0
7515	0.13	0.13	0	0	7516	0.13	0.13	0	0
7517	0.13	0.13	0	0	7518	0.13	0.13	0	0
7519	0.133	0.133	0	0	7520	0.13	0.13	0	0
7521	0.13	0.13	0	0	7522	0.13	0.13	0	0
7523	0.13	0.13	0	0	7524	0.13	0.13	0	0
7525	0.13	0.13	0	0	7526	0.13	0.13	0	0
7527	0.13	0.13	0	0	7528	0.13	0.13	0	0
7529	0.13	0.13	0	0	7530	0.133	0.133	0	0
7531	0.133	0.133	0	0	7532	0.13	0.13	0	0
7533	0.13	0.13	0	0	7534	0.13	0.13	0	0
7535	0.13	0.13	0	0	7536	0.13	0.13	0	0
7537	0.13	0.13	0	0	7538	0.13	0.13	0	0
7539	0.13	0.13	0	0	7540	0.13	0.13	0	0
7541	0.13	0.13	0	0	7542	0.133	0.133	0	0
7543	0.133	0.133	0	0	7544	0.13	0.13	0	0
7545	0.13	0.13	0	0	7546	0.13	0.13	0	0
7547	0.13	0.13	0	0	7548	0.13	0.13	0	0
7549	0.13	0.13	0	0	7550	0.13	0.13	0	0
7551	0.13	0.13	0	0	7552	0.13	0.13	0	0
7553	0.13	0.13	0	0	7554	0.133	0.133	0	0
7555	0.133	0.133	0	0	7556	0.13	0.13	0	0
7557	0.13	0.13	0	0	7558	0.13	0.13	0	0
7559	0.13	0.13	0	0	7560	0.13	0.13	0	0
7561	0.13	0.13	0	0	7562	0.13	0.13	0	0
7563	0.13	0.13	0	0	7564	0.13	0.13	0	0
7565	0.13	0.13	0	0	7566	0.133	0.133	0	0
7567	0.133	0.133	0	0	7568	0.129	0.129	0	0
7569	0.128	0.128	0	0	7570	0.129	0.129	0	0
7571	0.128	0.128	0	0	7572	0.129	0.129	0	0
7573	0.128	0.128	0	0	7574	0.129	0.129	0	0
7575	0.128	0.128	0	0	7576	0.129	0.129	0	0
7577	0.128	0.128	0	0	7578	0.132	0.132	0	0
7579	0.132	0.132	0	0	7580	0.124	0.124	0	0
7581	0.128	0.128	0	0	7582	0.128	0.128	0	0
7583	0.123	0.123	0	0	7584	0.124	0.124	0	0
7585	0.128	0.128	0	0	7586	0.129	0.129	0	0
7587	0.065	0.065	0	0	7588	0.03	0.03	0	0
7589	0.061	0.061	0	0	7590	0.062	0.062	0	0
7591	0.064	0.064	0	0	7592	0.064	0.064	0	0
7593	0.065	0.065	0	0	7594	0.065	0.065	0	0
7595	0.065	0.065	0	0	7596	0.065	0.065	0	0
7597	0.065	0.065	0	0	7598	0.065	0.065	0	0
7599	0.065	0.065	0	0	7600	0.064	0.064	0	0
7601	0.064	0.064	0	0	7602	0.064	0.064	0	0
7603	0.064	0.064	0	0	7604	0.064	0.064	0	0
7605	0.065	0.065	0	0	7606	0.065	0.065	0	0
7607	0.065	0.065	0	0	7608	0.065	0.065	0	0
7609	0.065	0.065	0	0	7610	0.065	0.065	0	0
7611	0.065	0.065	0	0	7612	0.064	0.064	0	0
7613	0.064	0.064	0	0	7614	0.064	0.064	0	0
7615	0.064	0.064	0	0	7616	0.064	0.064	0	0
7617	0.065	0.065	0	0	7618	0.065	0.065	0	0
7619	0.065	0.065	0	0	7620	0.065	0.065	0	0
7621	0.065	0.065	0	0	7622	0.065	0.065	0	0
7623	0.065	0.065	0	0	7624	0.064	0.064	0	0
7625	0.064	0.064	0	0	7626	0.062	0.062	0	0
7627	0.06	0.06	0	0	7628	0.03	0.03	0	0
7629	0.03	0.03	0	0	7630	0.061	0.061	0	0
7631	0.062	0.062	0	0	7632	0.064	0.064	0	0
7633	0.064	0.064	0	0	7634	0.065	0.065	0	0
7635	0.065	0.065	0	0	7636	0.065	0.065	0	0
7637	0.065	0.065	0	0	7638	0.065	0.065	0	0
7639	0.065	0.065	0	0	7640	0.065	0.065	0	0
7641	0.064	0.064	0	0	7642	0.064	0.064	0	0
7643	0.064	0.064	0	0	7644	0.064	0.064	0	0
7645	0.064	0.064	0	0	7646	0.065	0.065	0	0
7647	0.065	0.065	0	0	7648	0.065	0.065	0	0
7649	0.065	0.065	0	0	7650	0.065	0.065	0	0
7651	0.065	0.065	0	0	7652	0.065	0.065	0	0
7653	0.064	0.064	0	0	7654	0.064	0.064	0	0
7655	0.064	0.064	0	0	7656	0.066	0.066	0	0
7657	0.066	0.066	0	0	7658	0.066	0.066	0	0
7659	0.066	0.066	0	0	7660	0.066	0.066	0	0
7661	0.066	0.066	0	0	7662	0.066	0.066	0	0
7663	0.066	0.066	0	0	7664	0.066	0.066	0	0
7665	0.066	0.066	0	0	7666	0.066	0.066	0	0
7667	0.033	0.033	0	0	7669	0.018	0.018	0	0
7670	0.018	0.018	0	0	7671	0.018	0.018	0	0
7672	0.018	0.018	0	0	7673	0.018	0.018	0	0
7674	0.018	0.018	0	0	7675	0.018	0.018	0	0
7676	0.018	0.018	0	0	7677	0.036	0.036	0	0
7678	0.036	0.036	0	0	7679	0.036	0.036	0	0
7680	0.036	0.036	0	0	7681	0.036	0.036	0	0
7682	0.036	0.036	0	0	7683	0.036	0.036	0	0
7684	0.036	0.036	0	0	7685	0.036	0.036	0	0
7686	0.036	0.036	0	0	7687	0.036	0.036	0	0
7688	0.036	0.036	0	0	7689	0.036	0.036	0	0
7690	0.036	0.036	0	0	7691	0.036	0.036	0	0
7692	0.036	0.036	0	0	7693	0.042	0.042	0	0

Nodo	Massa X	Massa Y	Massa Z	Momento Z	Nodo	Massa X	Massa Y	Massa Z	Momento Z
7694	0.051	0.051	0	0	7695	0.051	0.051	0	0
7696	0.042	0.042	0	0	7697	0.042	0.042	0	0
7698	0.051	0.051	0	0	7699	0.051	0.051	0	0
7700	0.042	0.042	0	0	7701	0.057	0.057	0	0
7702	0.058	0.058	0	0	7703	0.058	0.058	0	0
7704	0.057	0.057	0	0	7705	0.057	0.057	0	0
7706	0.058	0.058	0	0	7707	0.058	0.058	0	0
7708	0.061	0.061	0	0	7709	0.066	0.066	0	0
7710	0.065	0.065	0	0	7711	0.065	0.065	0	0
7712	0.066	0.066	0	0	7713	0.066	0.066	0	0
7714	0.065	0.065	0	0	7715	0.065	0.065	0	0
7716	0.07	0.07	0	0	7717	0.069	0.069	0	0
7718	0.068	0.068	0	0	7719	0.068	0.068	0	0
7720	0.069	0.069	0	0	7721	0.069	0.069	0	0
7722	0.068	0.068	0	0	7723	0.068	0.068	0	0
7724	0.074	0.074	0	0	7725	0.068	0.068	0	0
7726	0.068	0.068	0	0	7727	0.068	0.068	0	0
7728	0.068	0.068	0	0	7729	0.068	0.068	0	0
7730	0.068	0.068	0	0	7731	0.068	0.068	0	0
7732	0.077	0.077	0	0	7733	0.068	0.068	0	0
7734	0.068	0.068	0	0	7735	0.068	0.068	0	0
7736	0.068	0.068	0	0	7737	0.068	0.068	0	0
7738	0.068	0.068	0	0	7739	0.068	0.068	0	0
7740	0.078	0.078	0	0	7741	0.068	0.068	0	0
7742	0.068	0.068	0	0	7743	0.068	0.068	0	0
7744	0.068	0.068	0	0	7745	0.068	0.068	0	0
7746	0.068	0.068	0	0	7747	0.068	0.068	0	0
7748	0.078	0.078	0	0	7749	0.068	0.068	0	0
7750	0.069	0.069	0	0	7751	0.069	0.069	0	0
7752	0.068	0.068	0	0	7753	0.068	0.068	0	0
7754	0.069	0.069	0	0	7755	0.069	0.069	0	0
7756	0.078	0.078	0	0	7757	0.069	0.069	0	0
7758	0.068	0.068	0	0	7759	0.068	0.068	0	0
7760	0.069	0.069	0	0	7761	0.069	0.069	0	0
7762	0.068	0.068	0	0	7763	0.068	0.068	0	0
7764	0.076	0.076	0	0	7765	0.067	0.067	0	0
7766	0.064	0.064	0	0	7767	0.064	0.064	0	0
7768	0.067	0.067	0	0	7769	0.067	0.067	0	0
7770	0.064	0.064	0	0	7771	0.064	0.064	0	0
7772	0.072	0.072	0	0	7773	0.063	0.063	0	0
7774	0.053	0.053	0	0	7775	0.053	0.053	0	0
7776	0.063	0.063	0	0	7777	0.063	0.063	0	0
7778	0.053	0.053	0	0	7779	0.053	0.053	0	0
7780	0.062	0.062	0	0	7781	0.044	0.044	0	0
7782	0.048	0.048	0	0	7783	0.048	0.048	0	0
7784	0.044	0.044	0	0	7785	0.044	0.044	0	0
7786	0.048	0.048	0	0	7787	0.048	0.048	0	0
7788	0.042	0.042	0	0	7789	0.036	0.036	0	0
7790	0.036	0.036	0	0	7791	0.036	0.036	0	0
7792	0.036	0.036	0	0	7793	0.036	0.036	0	0
7794	0.036	0.036	0	0	7795	0.036	0.036	0	0
7796	0.036	0.036	0	0	7797	0.036	0.036	0	0
7798	0.036	0.036	0	0	7799	0.036	0.036	0	0
7800	0.036	0.036	0	0	7801	0.036	0.036	0	0
7802	0.036	0.036	0	0	7803	0.036	0.036	0	0
7804	0.036	0.036	0	0	7805	0.018	0.018	0	0
7806	0.018	0.018	0	0	7807	0.018	0.018	0	0
7808	0.018	0.018	0	0	7809	0.018	0.018	0	0
7810	0.018	0.018	0	0	7811	0.018	0.018	0	0
7812	0.018	0.018	0	0					

6.6 Masse di piano

***Quota**: quota, livello o falda, a cui compete la massa risultante.*
***Massa X**: massa per la componente di spostamento lungo l'asse X. [daN/(cm/s²)]*
***Massa Y**: massa per la componente di spostamento lungo l'asse Y. [daN/(cm/s²)]*

Quota	Massa X	Massa Y	Quota	Massa X	Massa Y
Fondazione	8.355	8.355	Piano 1	824.916	824.916
Copertura	220.407	220.407	Altre quote	273.932	273.932

6.7 Gusci

6.7.1 Caratteristiche meccaniche gusci

***Indice**: numero dell'elemento nell'insieme che lo contiene.*
***Comportamento**: comportamento del materiale.*
***E1**: modulo di elasticità longitudinale, lungo l'asse 1 del sistema di riferimento locale. [daN/cm²]*
***v**: modulo di Poisson. Il valore è adimensionale.*
***E2**: modulo di elasticità longitudinale, lungo l'asse 2 del sistema di riferimento locale. [daN/cm²]*
***G**: modulo di elasticità tangenziale. [daN/cm²]*
***α**: coefficiente di dilatazione termica longitudinale. [°C-1]*
***Peso unitario**: peso per unità di volume, riferito allo spessore membranale. [daN/cm³]*

Indice	Comportamento	E1	v	E2	G	α	Peso unitario
1	Isotropo	336428	0.1	0	0	0.00001	0.0025
2	Isotropo	314472	0.1	0	0	0.00001	0.0025

6.7.2 Definizioni gusci

***In.**: numero dell'elemento nell'insieme che lo contiene.*
***Nodo I**: primo nodo di definizione dell'elemento.*

***Nodo J**: secondo nodo di definizione dell'elemento.*
***Nodo L**: terzo nodo di definizione dell'elemento; nel caso di elementi triangolari non è definito.*
***Nodo K**: ultimo nodo di definizione dell'elemento.*
***Sp.mem.**: spessore membranale dell'elemento. [cm]*
***Sp.fless.**: spessore flessionale dell'elemento. [cm]*
***Tm**: variazione termica nel piano medio dell'elemento. [°C]*
***Mat.**: caratteristiche meccaniche dell'elemento.*
***Ind.**: numero dell'elemento nell'insieme che lo contiene.*

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat. Ind.
1	2048	2040	2144	2157	30	30	0	1
3	2276	2263	2382	2395	30	30	0	1
5	2514	2501	2588	2601	30	30	0	1
7	2691	2678	2775	2802	30	30	0	1
9	3011	2961	4663	5446	30	30	0	1
11	5582	5523	5619	5686	30	30	0	1
13	5790	5723	5867	5886	30	30	0	1
15	5982	5963	6059	6078	30	30	0	1
17	6198	6155	7775	7783	30	30	0	1
19	2144	2136	2255	2263	30	30	0	1
21	2382	2374	2493	2501	30	30	0	1
23	2588	2580	2651	2678	30	30	0	1
25	2775	2751	2970	2961	30	30	0	1
27	4663	5355	5531	5523	30	30	0	1
29	5619	5627	5715	5723	30	30	0	1
31	5867	5853	5907	5963	30	30	0	1
33	6059	6043	6142	6155	30	30	0	1
35	2032	2024	2132	2136	30	30	0	1
37	2255	2247	2358	2374	30	30	0	1
39	2493	2469	2556	2580	30	30	0	1
41	2651	2643	2759	2751	30	30	0	1
43	2970	2978	5363	5355	30	30	0	1
45	5531	5539	5635	5627	30	30	0	1
47	5715	5731	5817	5853	30	30	0	1
49	5907	5949	6032	6043	30	30	0	1
51	6142	6093	7759	7767	30	30	0	1
53	2132	2128	2243	2247	30	30	0	1
55	2358	2354	2477	2469	30	30	0	1
57	2556	2564	2659	2643	30	30	0	1
59	2759	2767	2990	2978	30	30	0	1
61	5363	5497	5593	5539	30	30	0	1
63	5635	5673	5751	5731	30	30	0	1
65	5817	5825	5935	5949	30	30	0	1
67	6032	6024	6131	6093	30	30	0	1
69	2016	2008	2124	2128	30	30	0	1
71	2243	2239	2366	2354	30	30	0	1
73	2477	2485	2572	2564	30	30	0	1
75	2659	2667	2783	2767	30	30	0	1
77	2990	2998	5505	5497	30	30	0	1
79	5593	5601	5697	5673	30	30	0	1
81	5751	5771	5839	5825	30	30	0	1
83	5935	5927	6013	6024	30	30	0	1
85	6131	6117	7743	7751	30	30	0	1
87	2124	2120	2235	2239	30	30	0	1
89	2366	2362	2481	2485	30	30	0	1
91	2572	2568	2663	2667	30	30	0	1
93	2783	2779	2994	2998	30	30	0	1
95	5505	5501	5597	5601	30	30	0	1
97	5697	5693	5767	5771	30	30	0	1
99	5839	5835	5923	5927	30	30	0	1
101	6013	6009	6107	6117	30	30	0	1
103	1999	1991	2116	2120	30	30	0	1
105	2235	2231	2350	2362	30	30	0	1
107	2481	2473	2560	2568	30	30	0	1
109	2663	2655	2763	2779	30	30	0	1
111	2994	2986	5493	5501	30	30	0	1
113	5597	5589	5669	5693	30	30	0	1
115	5767	5747	5821	5835	30	30	0	1
117	5923	5931	6017	6009	30	30	0	1
119	6107	6121	7727	7735	30	30	0	1
121	2116	2112	2227	2231	30	30	0	1
123	2350	2346	2465	2473	30	30	0	1
125	2560	2552	2639	2655	30	30	0	1
127	2763	2755	2974	2986	30	30	0	1
129	5493	5359	5535	5589	30	30	0	1
131	5669	5631	5727	5747	30	30	0	1
133	5821	5813	5945	5931	30	30	0	1
135	6017	6028	6100	6121	30	30	0	1
137	1983	1975	2108	2112	30	30	0	1
139	2227	2251	2370	2346	30	30	0	1
141	2465	2489	2576	2552	30	30	0	1
143	2639	2647	2747	2755	30	30	0	1
145	2974	2966	5351	5359	30	30	0	1
147	5535	5527	5623	5631	30	30	0	1
149	5727	5711	5849	5813	30	30	0	1
151	5945	5903	6039	6028	30	30	0	1
153	6100	6135	7711	7719	30	30	0	1
155	2108	2140	2259	2251	30	30	0	1
157	2370	2378	2497	2489	30	30	0	1
159	2576	2584	2674	2647	30	30	0	1
161	2747	2771	2957	2966	30	30	0	1
163	5351	3788	5519	5527	30	30	0	1
165	5623	5615	5719	5711	30	30	0	1
167	5849	5863	5959	5903	30	30	0	1
169	6039	6055	6151	6135	30	30	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat. Ind.
2	2157	2144	2263	2276	30	30	0	1
4	2395	2382	2501	2514	30	30	0	1
6	2601	2588	2678	2691	30	30	0	1
8	2802	2775	2961	3011	30	30	0	1
10	5446	4663	5523	5582	30	30	0	1
12	5686	5619	5723	5790	30	30	0	1
14	5886	5867	5963	5982	30	30	0	1
16	6078	6059	6155	6198	30	30	0	1
18	2040	2032	2136	2144	30	30	0	1
20	2263	2255	2374	2382	30	30	0	1
22	2501	2493	2580	2588	30	30	0	1
24	2678	2651	2751	2775	30	30	0	1
26	2961	2970	5355	4663	30	30	0	1
28	5523	5531	5627	5619	30	30	0	1
30	5723	5715	5853	5867	30	30	0	1
32	5963	5907	6043	6059	30	30	0	1
34	6155	6142	7767	7775	30	30	0	1
36	2136	2132	2247	2255	30	30	0	1
38	2374	2358	2469	2493	30	30	0	1
40	2580	2556	2643	2651	30	30	0	1
42	2751	2759	2978	2970	30	30	0	1
44	5355	5363	5539	5531	30	30	0	1
46	5627	5635	5731	5715	30	30	0	1
48	5853	5817	5949	5907	30	30	0	1
50	6043	6032	6093	6142	30	30	0	1
52	2024	2016	2128	2132	30	30	0	1
54	2247	2243	2354	2358	30	30	0	1
56	2469	2477	2564	2556	30	30	0	1
58	2643	2659	2767	2759	30	30	0	1
60	2978	2990	5497	5363	30	30	0	1
62	5539	5593	5673	5635	30	30	0	1
64	5731	5751	5825	5817	30	30	0	1
66	5949	5935	6024	6032	30	30	0	1
68	6093	6131	7751	7759	30	30	0	1
70	2128	2124	2239	2243	30	30	0	1
72	2354	2366	2485	2477	30	30	0	1
74	2564	2572	2667	2659	30	30	0	1
76	2767	2783	2998	2990	30	30	0	1
78	5497	5505	5601	5593	30	30	0	1
80	5673	5697	5771	5751	30	30	0	1
82	5825	5839	5927	5935	30	30	0	1
84	6024	6013	6117	6131	30	30	0	1
86	2008	1999	2120	2124	30	30	0	1
88	2239	2235	2362	2366	30	30	0	1
90	2485	2481	2568	2572	30	30	0	1
92	2667	2663	2779	2783	30	30	0	1
94	2998	2994	5501	5505	30	30	0	1
96	5601	5597	5693	5697	30	30	0	1
98	5771	5767	5835	5839	30	30	0	1
100	5927	5923	6009	6013	30	30	0	1
102	6117	6107	7735	7743	30	30	0	1
104	2120	2116	2231	2235	30	30	0	1
106	2362	2350	2473	2481	30	30	0	1
108	2568	2560	2655	2663	30	30	0	1
110	2779	2763	2986	2994	30	30	0	1
112	5501	5493	5589	5597	30	30	0	1
114	5693	5669	5747	5767	30	30	0	1
116	5835	5821	5931	5923	30	30	0	1
118	6009	6017	6121	6107	30	30	0	1
120	1991	1983	2112	2116	30	30	0	1
122	2231	2227	2346	2350	30	30	0	1
124	2473	2465	2552	2560	30	30	0	1
126	2655	2639	2755	2763	30	30	0	1
128	2986	2974	5359	5493	30	30	0	1
130	5589	5535	5631	5669	30	30	0	1
132	5747	5727	5813	5821	30	30	0	1
134	5931	5945	6028	6017	30	30	0	1
136	6121	6100	7719	7727	30	30	0	1
138	2112	2108	2251	2227	30	30	0	1
140	2346	2370	2489	2465	30	30	0	1
142	2552	2576	2647	2639	30	30	0	1
144	2755	2747	2966	2974	30	30	0	1
146	5359	5351	5527	5535	30	30	0	1
148	5631	5623	5711	5727	30	30	0	1
150	5813	5849	5903	5945	30	30	0	1
152	6028	6039	6135	6100	30	30	0	1
154	1975	1967	2140	2108	30	30	0	1
156	2251	2259	2378	2370	30	30	0	1
158	2489	2497	2584	2576	30	30	0	1
160	2647	2674	2771	2747	30	30	0	1
162	2966	2957	3788	5351	30	30	0	1
164	5527	5519	5615	5623	30	30	0	1
166	5711	5719	5863	5849	30	30	0	1
168	5903	5959	6055	6039	30	30	0	1
170	6135	6151	7703	7711	30	30	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
171	1967	1959	2149	2140	30	30	0	1	172	2140	2149	2268	2259	30	30	0	1
173	2259	2268	2387	2378	30	30	0	1	174	2378	2387	2506	2497	30	30	0	1
175	2497	2506	2593	2584	30	30	0	1	176	2584	2593	2683	2674	30	30	0	1
177	2674	2683	2794	2771	30	30	0	1	178	2771	2794	3007	2957	30	30	0	1
179	2957	3007	5408	3788	30	30	0	1	180	3788	5408	5574	5519	30	30	0	1
181	5519	5574	5678	5615	30	30	0	1	182	5615	5678	5782	5719	30	30	0	1
183	5719	5782	5878	5863	30	30	0	1	184	5863	5878	5974	5959	30	30	0	1
185	5959	5974	6070	6055	30	30	0	1	186	6055	6070	6190	6151	30	30	0	1
187	6151	6190	7695	7703	30	30	0	1	188	2831	2859	3054	3036	30	30	0	1
189	2859	2891	3067	3054	30	30	0	1	190	2891	2914	3081	3067	30	30	0	1
191	2941	5368	3081	2914	30	30	0	1	192	5368	5376	3067	3081	30	30	0	1
193	5376	5384	3054	3067	30	30	0	1	194	5384	5392	3036	3054	30	30	0	1
195	5392	5400	3018	3036	30	30	0	1	196	5408	3007	3018	5400	30	30	0	1
197	2794	2813	3018	3007	30	30	0	1	198	2813	2831	3036	3018	30	30	0	1
199	6190	6182	7687	7695	30	30	0	1	200	6182	6174	7679	7687	30	30	0	1
201	6174	6166	7671	7679	30	30	0	1	202	7783	7791	6206	6198	30	30	0	1
203	7791	7799	6214	6206	30	30	0	1	204	7799	7807	6222	6214	30	30	0	1
205	5462	5470	3074	3031	30	30	0	1	206	5470	5478	3088	3074	30	30	0	1
207	5486	2949	3088	5478	30	30	0	1	208	2949	2918	3074	3088	30	30	0	1
209	2918	2895	3031	3074	30	30	0	1	210	2895	2863	2922	3031	30	30	0	1
211	2863	2835	2902	2922	30	30	0	1	212	2835	2817	3003	2902	30	30	0	1
213	2802	3011	3003	2817	30	30	0	1	214	5446	5454	3003	3011	30	30	0	1
215	5454	5462	3031	3003	30	30	0	1	216	3031	2922	2902	3003	30	30	0	1
217	5442	5444		5348	30	30	0	1	218	5442	5348		4618	30	30	0	1
219	5344	5414		3764	30	30	0	1	220	5406	5414		5344	30	30	0	1
221	2266	2385	2343	2224	30	30	0	1	222	2385	2504	2462	2343	30	30	0	1
223	2504	2591	2611	2462	30	30	0	1	224	2591	2681	2698	2611	30	30	0	1
225	2681	2792	2735	2698	30	30	0	1	226	2792	2926	2884	2735	30	30	0	1
227	2792	2822	3040	2926	30	30	0	1	228	2822	2843	3048	3040	30	30	0	1
229	2843	2876	3063	3048	30	30	0	1	230	2876	2905	3070	3063	30	30	0	1
231	2939	5366	3070	2905	30	30	0	1	232	5366	5374	3063	3070	30	30	0	1
233	5374	5382	3048	3063	30	30	0	1	234	5382	5390	3040	3048	30	30	0	1
235	5390	5398	3095	3040	30	30	0	1	236	5398	5406	3085	3095	30	30	0	1
237	5406	5344	3060	3085	30	30	0	1	238	5344	3764	3041	3060	30	30	0	1
239	3764	3882	3015	3041	30	30	0	1	240	3882	3974	2981	3015	30	30	0	1
241	3974	4066	2935	2981	30	30	0	1	242	4066	4158	2929	2935	30	30	0	1
243	4158	4250	2931	2929	30	30	0	1	244	4250	4342	2937	2931	30	30	0	1
245	4342	4434	2983	2937	30	30	0	1	246	4434	4526	3021	2983	30	30	0	1
247	4526	4618	3028	3021	30	30	0	1	248	4618	5348	3045	3028	30	30	0	1
249	5348	5444	3052	3045	30	30	0	1	250	5444	5452	3025	3052	30	30	0	1
251	5452	5460	3059	3025	30	30	0	1	252	5460	5468	3078	3059	30	30	0	1
253	5468	5476	3091	3078	30	30	0	1	254	5484	2947	3091	5476	30	30	0	1
255	2947	2909	3078	3091	30	30	0	1	256	2909	2880	3059	3078	30	30	0	1
257	2880	2847	3025	3059	30	30	0	1	258	2847	2826	2900	3025	30	30	0	1
259	2826	2800	2888	2900	30	30	0	1	260	2800	2728	2867	2888	30	30	0	1
261	2800	2689	2626	2728	30	30	0	1	262	2689	2599	2543	2626	30	30	0	1
263	2599	2512	2458	2543	30	30	0	1	264	2512	2393	2340	2458	30	30	0	1
265	2393	2274	2219	2340	30	30	0	1	266	2274	2155	2098	2219	30	30	0	1
267	2046	2038	2098	2155	30	30	0	1	268	2038	2030	2090	2098	30	30	0	1
269	2030	2022	2088	2090	30	30	0	1	270	2022	2014	2083	2088	30	30	0	1
271	2014	2006	2086	2083	30	30	0	1	272	2006	1997	2094	2086	30	30	0	1
273	1997	1989	2092	2094	30	30	0	1	274	1989	1981	2096	2092	30	30	0	1
275	1981	1973	2101	2096	30	30	0	1	276	1973	1965	2105	2101	30	30	0	1
277	1957	2147	2105	1965	30	30	0	1	278	2147	2266	2224	2105	30	30	0	1
279	2532	2443	2447	2537	30	30	0	1	280	2443	2332	2334	2447	30	30	0	1
281	2332	2216	2213	2334	30	30	0	1	282	2216	2094	2092	2213	30	30	0	1
283	2537	2447	2450	2548	30	30	0	1	284	2447	2334	2330	2450	30	30	0	1
285	2334	2213	2211	2330	30	30	0	1	286	2213	2092	2096	2211	30	30	0	1
287	2548	2450	2456	2614	30	30	0	1	288	2450	2330	2337	2456	30	30	0	1
289	2330	2211	2221	2337	30	30	0	1	290	2211	2096	2101	2221	30	30	0	1
291	2614	2456	2462	2611	30	30	0	1	292	2456	2337	2343	2462	30	30	0	1
293	2337	2221	2224	2343	30	30	0	1	294	2221	2101	2105	2224	30	30	0	1
295	2981	2935	2744	2790	30	30	0	1	296	2935	2929	2738	2744	30	30	0	1
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299	2703	2670	2537	2548	30	30	0	1	300	2670	2630	2532	2537	30	30	0	1
301	2703	2548	2614	2712	30	30	0	1	302	2712	2820	2790	2703	30	30	0	1
303	2735	2884	2854	2733	30	30	0	1	304	2854	2820	2712	2733	30	30	0	1
305	2712	2698	2735	2733	30	30	0	1	306	2712	2614	2611	2698	30	30	0	1
307	3015	2981	2790	2820	30	30	0	1	308	2820	2854	3041	3015	30	30	0	1
309	2854	2884	3060	3041	30	30	0	1	310	2884	2926	3085	3060	30	30	0	1
311	2926	3040	3095	3085	30	30	0	1	312	2543	2458	2452	2539	30	30	0	1
313	2458	2340	2328	2452	30	30	0	1	314	2340	2219	2204	2328	30	30	0	1
315	2219	2098	2090	2204	30	30	0	1	316	2539	2452	2445	2607	30	30	0	1
317	2452	2328	2320	2445	30	30	0	1	318	2328	2204	2200	2320	30	30	0	1
319	2204	2090	2088	2200	30	30	0	1	320	2607	2445	2441	2546	30	30	0	1
321	2445	2320	2326	2441	30	30	0	1	322	2320	2200	2207	2326	30	30	0	1
323	2200	2088	2083	2207	30	30	0	1	324	2546	2441	2439	2535	30	30	0	1
325	2441	2326	2324	2439	30	30	0	1	326	2326	2207	2209	2324	30	30	0	1
327	2207	2083	2086	2209	30	30	0	1	328	2535	2439	2443	2532	30	30	0	1
329	2439	2324	2332	2443	30	30	0	1	330	2324	2209	2216	2332	30	30	0	1
331	2209	2086	2094	2216	30	30	0	1	332	2546	2535	2636	2701	30	30	0	1
333	2535	2532	2630	2636	30	30	0	1	334	2701	2636	2740	2786	30	30	0	1
335	2636	2630	2738	2740	30	30	0	1	336	2786	2740	2931	2937	30	30	0	1
337	2740	2738	2929	2931	30	30	0	1	338	2708	2607	2546	2701	30	30	0	1
339	2701	2786	2808	2708	30	30	0	1	340	2633	2626	2543	2539	30	30	0	1
341	2539	2607	2708	2633	30	30	0	1	342	2728	2626	2633	2722	30	30	0	1
343	2722	2852	2867	2728	30	30	0	1	344	2840	2852	2722	2725	30	30	0	1
345	2722	2633	2708	2725	30	30	0	1	346	2708	2808	2840	2725	30	30	0	1
347	2786	2937	2983	2808	30	30	0	1	348	2808	2983	3021	2840	30	30	0	1
349	2840	3021	3028	2852	30	30	0	1	350	2852	3028	3045	2867	30	30	0	1
351	2867	3045	3052	2888	30	30	0	1	352	2888	3052	3025	2900	30	30	0	1
353	5406	5572	5567	5414	30	30	0	1	354	5414	5567	5561	5418	30	30	0	1
355	5418	5561	5543	5421	30	30	0	1	356	5421	5543	5546	5424	30	30	0	1
357	5424	5546	5549	5427	30	30	0	1	358	5427	5549	5552	5430	30	30	0	1
359	5430	5552	5555	5433	30	30	0	1	360	5433	5555	5558	5436	30	30	0	1
361	5436	5558	5564	5439	30	30	0	1	362	5439	5564	5570	5442	30	30	0	1
363	5442	5570	5580	5444	30	30	0	1	364	5572	5676	5663	5567	30	30	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
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367	5543	5651	5639	5546	30	30	0	1	368	5546	5639	5642	5549	30	30	0	1
369	5549	5642	5645	5552	30	30	0	1	370	5552	5645	5648	5555	30	30	0	1
371	5555	5648	5654	5558	30	30	0	1	372	5558	5654	5660	5564	30	30	0	1
373	5564	5660	5666	5570	30	30	0	1	374	5570	5666	5684	5580	30	30	0	1
375	5676	5780	5775	5663	30	30	0	1	376	5663	5775	5761	5657	30	30	0	1
377	5657	5761	5755	5651	30	30	0	1	378	5651	5755	5741	5639	30	30	0	1
379	5639	5741	5735	5642	30	30	0	1	380	5642	5735	5738	5645	30	30	0	1
381	5645	5738	5744	5648	30	30	0	1	382	5648	5744	5758	5654	30	30	0	1
383	5654	5758	5764	5660	30	30	0	1	384	5660	5764	5778	5666	30	30	0	1
385	5666	5778	5788	5684	30	30	0	1	386	5780	5876	5871	5775	30	30	0	1
387	5775	5871	5857	5761	30	30	0	1	388	5761	5857	5843	5755	30	30	0	1
389	5755	5843	5829	5741	30	30	0	1	390	5741	5829	5807	5735	30	30	0	1
391	5735	5807	5810	5738	30	30	0	1	392	5738	5810	5832	5744	30	30	0	1
393	5744	5832	5846	5758	30	30	0	1	394	5758	5846	5860	5764	30	30	0	1
395	5764	5860	5874	5778	30	30	0	1	396	5778	5874	5884	5788	30	30	0	1
397	5876	5972	5967	5871	30	30	0	1	398	5871	5967	5911	5857	30	30	0	1
399	5857	5911	5953	5843	30	30	0	1	400	5843	5953	5939	5829	30	30	0	1
401	5829	5939	5917	5807	30	30	0	1	402	5807	5917	5920	5810	30	30	0	1
403	5810	5920	5942	5832	30	30	0	1	404	5832	5942	5956	5846	30	30	0	1
405	5846	5956	5914	5860	30	30	0	1	406	5860	5914	5970	5874	30	30	0	1
407	5874	5970	5980	5884	30	30	0	1	408	5972	6068	6063	5967	30	30	0	1
409	5967	6063	6047	5911	30	30	0	1	410	5911	6047	6000	5953	30	30	0	1
411	5953	6000	5997	5939	30	30	0	1	412	5939	5997	6003	5917	30	30	0	1
413	5917	6003	6006	5920	30	30	0	1	414	5920	6006	6021	5942	30	30	0	1
415	5942	6021	6036	5956	30	30	0	1	416	5956	6036	6050	5914	30	30	0	1
417	5914	6050	6066	5970	30	30	0	1	418	5970	6066	6076	5980	30	30	0	1
419	6068	6188	6159	6063	30	30	0	1	420	6063	6159	6146	6047	30	30	0	1
421	6047	6146	6097	6000	30	30	0	1	422	6000	6097	6125	5997	30	30	0	1
423	5997	6125	6111	6003	30	30	0	1	424	6003	6111	6114	6006	30	30	0	1
425	6006	6114	6128	6021	30	30	0	1	426	6021	6128	6104	6036	30	30	0	1
427	6036	6104	6139	6050	30	30	0	1	428	6050	6139	6162	6066	30	30	0	1
429	6066	6162	6196	6076	30	30	0	1	430	6188	7693	7701	6159	30	30	0	1
431	6159	7701	7709	6146	30	30	0	1	432	6146	7709	7717	6097	30	30	0	1
433	6097	7717	7725	6125	30	30	0	1	434	6125	7725	7733	6111	30	30	0	1
435	6111	7733	7741	6114	30	30	0	1	436	6114	7741	7749	6128	30	30	0	1
437	6128	7749	7757	6104	30	30	0	1	438	6104	7757	7765	6139	30	30	0	1
439	6139	7765	7773	6162	30	30	0	1	440	6162	7773	7781	6196	30	30	0	1
441	6188	6180	7685	7693	30	30	0	1	442	6180	6172	7677	7685	30	30	0	1
443	6172	6164	7669	7677	30	30	0	1	444	7781	7789	6204	6196	30	30	0	1
445	7789	7797	6212	6204	30	30	0	1	446	7797	7805	6220	6212	30	30	0	1
447	4618	4526	5439	5442	30	30	0	1	448	4526	4434	5436	5439	30	30	0	1
449	4434	4342	5433	5436	30	30	0	1	450	4342	4250	5430	5433	30	30	0	1
451	4250	4158	5427	5430	30	30	0	1	452	4158	4066	5424	5427	30	30	0	1
453	4066	3974	5421	5424	30	30	0	1	454	3974	3882	5418	5421	30	30	0	1
455	3882	3764	5414	5418	30	30	0	1	456	2047	2039	2143	2156	30	30	0	1
457	2156	2143	2262	2275	30	30	0	1	458	2275	2262	2381	2394	30	30	0	1
459	2394	2381	2500	2513	30	30	0	1	460	2513	2500	2587	2600	30	30	0	1
461	2600	2587	2677	2690	30	30	0	1	462	2690	2677	2774	2801	30	30	0	1
463	2801	2774	2960	3010	30	30	0	1	464	3010	2960	4644	5445	30	30	0	1
465	5445	4644	5522	5581	30	30	0	1	466	5581	5522	5618	5685	30	30	0	1
467	5685	5618	5722	5789	30	30	0	1	468	5789	5722	5866	5885	30	30	0	1
469	5885	5866	5962	5981	30	30	0	1	470	5981	5962	6058	6077	30	30	0	1
471	6077	6058	6154	6197	30	30	0	1	472	6197	6154	7774	7782	30	30	0	1
473	2039	2031	2135	2143	30	30	0	1	474	2143	2135	2254	2262	30	30	0	1
475	2262	2254	2373	2381	30	30	0	1	476	2381	2373	2492	2500	30	30	0	1
477	2500	2492	2579	2587	30	30	0	1	478	2587	2579	2650	2677	30	30	0	1
479	2677	2650	2750	2774	30	30	0	1	480	2774	2750	2969	2960	30	30	0	1
481	2960	2969	5354	4644	30	30	0	1	482	4644	5354	5530	5522	30	30	0	1
483	5522	5530	5626	5618	30	30	0	1	484	5618	5626	5714	5722	30	30	0	1
485	5722	5714	5852	5866	30	30	0	1	486	5866	5852	5906	5962	30	30	0	1
487	5962	5906	6042	6058	30	30	0	1	488	6058	6042	6141	6154	30	30	0	1
489	6154	6141	7766	7774	30	30	0	1	490	2031	2023	2131	2135	30	30	0	1
491	2135	2131	2246	2254	30	30	0	1	492	2254	2246	2357	2373	30	30	0	1
493	2373	2357	2468	2492	30	30	0	1	494	2492	2468	2555	2579	30	30	0	1
495	2579	2555	2642	2650	30	30	0	1	496	2650	2642	2758	2750	30	30	0	1
497	2750	2758	2977	2969	30	30	0	1	498	2969	2977	5362	5354	30	30	0	1
499	5354	5362	5538	5530	30	30	0	1	500	5530	5538	5634	5626	30	30	0	1
501	5626	5634	5730	5714	30	30	0	1	502	5714	5730	5816	5852	30	30	0	1
503	5852	5816	5948	5906	30	30	0	1	504	5906	5948	6031	6042	30	30	0	1
505	6042	6031	6092	6141	30	30	0	1	506	6141	6092	7758	7766	30	30	0	1
507	2023	2015	2127	2131	30	30	0	1	508	2131	2127	2242	2246	30	30	0	1
509	2246	2242	2353	2357	30	30	0	1	510	2357	2353	2476	2468	30	30	0	1
511	2468	2476	2563	2555	30	30	0	1	512	2555	2563	2658	2642	30	30	0	1
513	2642	2658	2766	2758	30	30	0	1	514	2758	2766	2989	2977	30	30	0	1
515	2977	2989	5496	5362	30	30	0	1	516	5362	5496	5592	5538	30	30	0	1
517	5538	5592	5672	5634	30	30	0	1	518	5634	5672	5750	5730	30	30	0	1
519	5730	5750	5824	5816	30	30	0	1	520	5816	5824	5934	5948	30	30	0	1
521	5948	5934	6023	6031	30	30	0	1	522	6031	6023	6130	6092	30	30	0	1
523	6092	6130	7750	7758	30	30	0	1	524	2015	2007	2123	2127	30	30	0	1
525	2127	2123	2238	2242	30	30	0	1	526	2242	2238	2365	2353	30	30	0	1
527	2353	2365	2484	2476	30	30	0	1	528	2476	2484	2571	2563	30	30	0	1
529	2563	2571	2666	2658	30	30	0	1	530	2658	2666	2782	2766	30	30	0	1
531	2766	2782	2997	2989	30	30	0	1	532	2989	2997	5504	5496	30	30	0	1
533	5496	5504	5600	5592	30	30	0	1	534	5592	5600	5696	5672	30	30	0	1
535	5672	5696	5770	5750	30	30	0	1	536	5750	5770	5838	5824	30	30	0	1
537	5824	5838	5926	5934	30	30	0	1	538	5934	5926	6012	6023	30	30	0	1
539	6023	6012	6116	6130	30	30	0	1	540	6130	6116	7742	7750	30	30	0	1
541	2007	1998	2119	2123	30	30	0	1	542	2123	2119	2234	2238	30	30	0	1
543	2238	2234	2361	2365	30	30	0	1	544	2365	2361	2480	2484	30	30	0	1
545	2484	2480	2567	2571	30	30	0	1	546	2571	2567	2662	2666	30	30	0	1
547	2666	2662	2778	2782	30	30	0	1	548	2782	2778	2993	2997	30	30	0	1
549	2997	2993	5500	5504	30	30	0	1	550	5504	5500	5596	5600	30	30	0	1
551	5600	5596	5692	5696	30	30	0	1	552	5696	5692	5766	5770	30	30	0	1
553	5770	5766	5834	5838	30	30	0	1	554	5838	5834	5922	5926	30	30	0	1
555	5926	5922	6008	6012	30	30	0	1	556	6012	6008	6106	6116	30	30	0	1
557	6116	6106	7734	7742	30	30	0	1	558	1998	1990	2115	2119	30	30	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
559	2119	2115	2230	2234	30	30	0	1	560	2234	2230	2349	2361	30	30	0	1
561	2361	2349	2472	2480	30	30	0	1	562	2480	2472	2559	2567	30	30	0	1
563	2567	2559	2654	2662	30	30	0	1	564	2662	2654	2762	2778	30	30	0	1
565	2778	2762	2985	2993	30	30	0	1	566	2993	2985	5492	5500	30	30	0	1
567	5500	5492	5588	5596	30	30	0	1	568	5596	5588	5668	5692	30	30	0	1
569	5692	5668	5746	5766	30	30	0	1	570	5766	5746	5820	5834	30	30	0	1
571	5834	5820	5930	5922	30	30	0	1	572	5922	5930	6016	6008	30	30	0	1
573	6008	6016	6120	6106	30	30	0	1	574	6106	6120	7726	7734	30	30	0	1
575	1990	1982	2111	2115	30	30	0	1	576	2115	2111	2226	2230	30	30	0	1
577	2230	2226	2345	2349	30	30	0	1	578	2349	2345	2464	2472	30	30	0	1
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717	2692	2602	2609	2697	30	30	0	1	718	2602	2515	2461	2609	30	30	0	1
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723	2041	2033	2077	2103	30	30	0	1	724	2033	2025	2078	2077	30	30	0	1
725	2025	2017	2079	2078	30	30	0	1	726	2017	2009	2080	2079	30	30	0	1
727	2009	2000	2082	2080	30	30	0	1	728	2000	1992	2081	2082	30	30	0	1
729	1992	1984	2085	2081	30	30	0	1	730	1984	1976	2100	2085	30	30	0	1
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743	2437	2315	2316	2434	30	30	0	1	744	2315	2196	2198	2316	30	30	0	1
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747	2434	2316	2317	2435	30	30	0	1	748	2316	2198	2202	2317	30	30	0	1
749	2198	2079	2080	2202	30	30	0	1	750	2550	2534	2671	2705	30	30	0	1
751	2534	2530	2629	2671	30	30	0	1	752	2705	2671	2743	2789	30	30	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
753	2671	2629	2737	2743	30	30	0	1	754	2789	2743	2934	2964	30	30	0	1
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757	2705	2789	2811	2711	30	30	0	1	758	2697	2609	2613	2711	30	30	0	1
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761	2851	2871	2732	2730	30	30	0	1	762	2789	2964	3014	2811	30	30	0	1
763	2811	3014	3027	2851	30	30	0	1	764	2851	3027	3044	2871	30	30	0	1
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773	2318	2199	2206	2323	30	30	0	1	774	2199	2082	2081	2206	30	30	0	1
775	2545	2438	2449	2610	30	30	0	1	776	2438	2323	2322	2449	30	30	0	1
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781	2322	2203	2215	2336	30	30	0	1	782	2203	2085	2100	2215	30	30	0	1
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897	6183	6175	7680	7688	30	30	0	1	898	6175	6167	7672	7680	30	30	0	1
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929	5394	5402	3096	3039	30	30	0	1	930	5402	5410	3086	3096	30	30	0	1
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933	3809	3856	3016	3042	30	30	0	1	934	3856	3948	2982	3016	30	30	0	1
935	3948	4040	2936	2982	30	30	0	1	936	4040	4132	2930	2936	30	30	0	1
937	4132	4224	2932	2930	30	30	0	1	938	4224	4316	2938	2932	30	30	0	1
939	4316	4408	2984	2938	30	30	0	1	940	4408	4500	3022	2984	30	30	0	1
941	4500	4592	3029	3022	30	30	0	1	942	4592	5347	3046	3029	30	30	0	1
943	5347	5448	3051	3046	30	30	0	1	944	5448	5456	3024	3051	30	30	0	1
945	5456	5464	3058	3024	30	30	0	1	946	5464	5472	3079	3058	30	30	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
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951	2882	2849	3024	3058	30	30	0	1	952	2849	2828	2899	3024	30	30	0	1
953	2828	2804	2887	2899	30	30	0	1	954	2804	2729	2868	2887	30	30	0	1
955	2804	2693	2627	2729	30	30	0	1	956	2693	2603	2544	2627	30	30	0	1
957	2603	2516	2459	2544	30	30	0	1	958	2516	2397	2341	2459	30	30	0	1
959	2397	2278	2220	2341	30	30	0	1	960	2278	2159	2099	2220	30	30	0	1
961	2050	2042	2099	2159	30	30	0	1	962	2042	2034	2091	2099	30	30	0	1
963	2034	2026	2089	2091	30	30	0	1	964	2026	2018	2084	2089	30	30	0	1
965	2018	2010	2087	2084	30	30	0	1	966	2010	2001	2095	2087	30	30	0	1
967	2001	1993	2093	2095	30	30	0	1	968	1993	1985	2097	2093	30	30	0	1
969	1985	1977	2102	2097	30	30	0	1	970	1977	1969	2106	2102	30	30	0	1
971	1961	2151	2106	1969	30	30	0	1	972	2151	2270	2225	2106	30	30	0	1
973	2533	2444	2448	2538	30	30	0	1	974	2444	2333	2335	2448	30	30	0	1
975	2333	2217	2214	2335	30	30	0	1	976	2217	2095	2093	2214	30	30	0	1
977	2538	2448	2451	2549	30	30	0	1	978	2448	2335	2331	2451	30	30	0	1
979	2335	2214	2212	2331	30	30	0	1	980	2214	2093	2097	2212	30	30	0	1
981	2549	2451	2457	2615	30	30	0	1	982	2451	2331	2338	2457	30	30	0	1
983	2331	2212	2222	2338	30	30	0	1	984	2212	2097	2102	2222	30	30	0	1
985	2615	2457	2463	2612	30	30	0	1	986	2457	2338	2344	2463	30	30	0	1
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989	2982	2936	2745	2791	30	30	0	1	990	2936	2930	2739	2745	30	30	0	1
991	2791	2745	2672	2704	30	30	0	1	992	2745	2739	2631	2672	30	30	0	1
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995	2713	2821	2791	2704	30	30	0	1	996	2704	2549	2615	2713	30	30	0	1
997	2736	2885	2855	2734	30	30	0	1	998	2855	2821	2713	2734	30	30	0	1
999	2713	2699	2736	2734	30	30	0	1	1000	2713	2615	2612	2699	30	30	0	1
1001	3016	2982	2791	2821	30	30	0	1	1002	2821	2855	3042	3016	30	30	0	1
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1005	2927	3039	3096	3086	30	30	0	1	1006	2544	2459	2453	2540	30	30	0	1
1007	2459	2341	2329	2453	30	30	0	1	1008	2341	2220	2205	2329	30	30	0	1
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1011	2453	2329	2321	2446	30	30	0	1	1012	2329	2205	2201	2321	30	30	0	1
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1015	2446	2321	2327	2442	30	30	0	1	1016	2321	2201	2208	2327	30	30	0	1
1017	2201	2089	2084	2208	30	30	0	1	1018	2547	2442	2440	2536	30	30	0	1
1019	2442	2327	2325	2440	30	30	0	1	1020	2327	2208	2210	2325	30	30	0	1
1021	2208	2084	2087	2210	30	30	0	1	1022	2536	2440	2444	2533	30	30	0	1
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1055	5435	5557	5563	5438	30	30	0	1	1056	5438	5563	5569	5441	30	30	0	1
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1059	5566	5662	5656	5560	30	30	0	1	1060	5560	5656	5650	5542	30	30	0	1
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1075	5644	5737	5743	5647	30	30	0	1	1076	5647	5743	5757	5653	30	30	0	1
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1087	5743	5831	5845	5757	30	30	0	1	1088	5757	5845	5859	5763	30	30	0	1
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1101	5873	5969	5984	5888	30	30	0	1	1102	5976	6072	6062	5966	30	30	0	1
1103	5966	6062	6046	5910	30	30	0	1	1104	5910	6046	5999	5952	30	30	0	1
1105	5952	5999	5996	5938	30	30	0	1	1106	5938	5996	6002	5916	30	30	0	1
1107	5916	6002	6005	5919	30	30	0	1	1108	5919	6005	6020	5941	30	30	0	1
1109	5941	6020	6035	5955	30	30	0	1	1110	5955	6035	6049	5913	30	30	0	1
1111	5913	6049	6065	5969	30	30	0	1	1112	5969	6065	6080	5984	30	30	0	1
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1117	5996	6124	6110	6002	30	30	0	1	1118	6002	6110	6113	6005	30	30	0	1
1119	6005	6113	6127	6020	30	30	0	1	1120	6020	6127	6103	6035	30	30	0	1
1121	6035	6103	6138	6049	30	30	0	1	1122	6049	6138	6161	6065	30	30	0	1
1123	6065	6161	6200	6080	30	30	0	1	1124	6192	7697	7705	6158	30	30	0	1
1125	6158	7705	7713	6145	30	30	0	1	1126	6145	7713	7721	6096	30	30	0	1
1127	6096	7721	7729	6124	30	30	0	1	1128	6124	7729	7737	6110	30	30	0	1
1129	6110	7737	7745	6113	30	30	0	1	1130	6113	7745	7753	6127	30	30	0	1
1131	6127	7753	7761	6103	30	30	0	1	1132	6103	7761	7769	6138	30	30	0	1
1133	6138	7769	7777	6161	30	30	0	1	1134	6161	7777	7785	6200	30	30	0	1
1135	6192	6184	7689	7697	30	30	0	1	1136	6184	6176	7681	7689	30	30	0	1
1137	6176	6168	7673	7681	30	30	0	1	1138	7785	7793	6208	6200	30	30	0	1
1139	7793	7801	6216	6208	30	30	0	1	1140	7801	7809	6224	6216	30	30	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
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1143	4408	4316	5432	5435	30	30	0	1	1144	4316	4224	5429	5432	30	30	0	1
1145	4224	4132	5426	5429	30	30	0	1	1146	4132	4040	5423	5426	30	30	0	1
1147	4040	3948	5420	5423	30	30	0	1	1148	3948	3856	5417	5420	30	30	0	1
1149	3856	3809	5416	5417	30	30	0	1	1150	2051	2043	2145	2160	30	30	0	1
1151	2160	2145	2264	2279	30	30	0	1	1152	2279	2264	2383	2398	30	30	0	1
1153	2398	2383	2502	2517	30	30	0	1	1154	2517	2502	2589	2604	30	30	0	1
1155	2604	2589	2679	2694	30	30	0	1	1156	2694	2679	2776	2805	30	30	0	1
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1161	5689	5620	5724	5793	30	30	0	1	1162	5793	5724	5868	5889	30	30	0	1
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1165	6081	6060	6156	6201	30	30	0	1	1166	6201	6156	7778	7786	30	30	0	1
1167	2043	2035	2137	2145	30	30	0	1	1168	2145	2137	2256	2264	30	30	0	1
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1175	2962	2971	5356	4604	30	30	0	1	1176	4604	5356	5532	5524	30	30	0	1
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1183	6156	6143	7770	7778	30	30	0	1	1184	2035	2027	2133	2137	30	30	0	1
1185	2137	2133	2248	2256	30	30	0	1	1186	2256	2248	2359	2375	30	30	0	1
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1199	6044	6033	6094	6143	30	30	0	1	1200	6143	6094	7762	7770	30	30	0	1
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1203	2248	2244	2355	2359	30	30	0	1	1204	2359	2355	2478	2470	30	30	0	1
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1237	2240	2236	2363	2367	30	30	0	1	1238	2367	2363	2482	2486	30	30	0	1
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1243	2999	2995	5502	5506	30	30	0	1	1244	5506	5502	5598	5602	30	30	0	1
1245	5602	5598	5694	5698	30	30	0	1	1246	5698	5694	5768	5772	30	30	0	1
1247	5772	5768	5836	5840	30	30	0	1	1248	5840	5836	5924	5928	30	30	0	1
1249	5928	5924	6010	6014	30	30	0	1	1250	6014	6010	6108	6118	30	30	0	1
1251	6118	6108	7738	7746	30	30	0	1	1252	2002	1994	2117	2121	30	30	0	1
1253	2121	2117	2232	2236	30	30	0	1	1254	2236	2232	2351	2363	30	30	0	1
1255	2363	2351	2474	2482	30	30	0	1	1256	2482	2474	2561	2569	30	30	0	1
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1259	2780	2764	2987	2995	30	30	0	1	1260	2995	2987	5494	5502	30	30	0	1
1261	5502	5494	5590	5598	30	30	0	1	1262	5598	5590	5670	5694	30	30	0	1
1263	5694	5670	5748	5768	30	30	0	1	1264	5768	5748	5822	5836	30	30	0	1
1265	5836	5822	5932	5924	30	30	0	1	1266	5924	5932	6018	6010	30	30	0	1
1267	6010	6018	6122	6108	30	30	0	1	1268	6108	6122	7730	7738	30	30	0	1
1269	1994	1986	2113	2117	30	30	0	1	1270	2117	2113	2228	2232	30	30	0	1
1271	2232	2228	2347	2351	30	30	0	1	1272	2351	2347	2466	2474	30	30	0	1
1273	2474	2466	2553	2561	30	30	0	1	1274	2561	2553	2640	2656	30	30	0	1
1275	2656	2640	2756	2764	30	30	0	1	1276	2764	2756	2975	2987	30	30	0	1
1277	2987	2975	5360	5494	30	30	0	1	1278	5494	5360	5536	5590	30	30	0	1
1279	5590	5536	5632	5670	30	30	0	1	1280	5670	5632	5728	5748	30	30	0	1
1281	5748	5728	5814	5822	30	30	0	1	1282	5822	5814	5946	5932	30	30	0	1
1283	5932	5946	6029	6018	30	30	0	1	1284	6018	6029	6101	6122	30	30	0	1
1285	6122	6101	7722	7730	30	30	0	1	1286	1986	1978	2109	2113	30	30	0	1
1287	2113	2109	2252	2228	30	30	0	1	1288	2228	2252	2371	2347	30	30	0	1
1289	2347	2371	2490	2466	30	30	0	1	1290	2466	2490	2577	2553	30	30	0	1
1291	2553	2577	2648	2640	30	30	0	1	1292	2640	2648	2748	2756	30	30	0	1
1293	2756	2748	2967	2975	30	30	0	1	1294	2975	2967	5352	5360	30	30	0	1
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1297	5632	5624	5712	5728	30	30	0	1	1298	5728	5712	5850	5814	30	30	0	1
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1301	6029	6040	6136	6101	30	30	0	1	1302	6101	6136	7714	7722	30	30	0	1
1303	1978	1970	2141	2109	30	30	0	1	1304	2109	2141	2260	2252	30	30	0	1
1305	2252	2260	2379	2371	30	30	0	1	1306	2371	2379	2498	2490	30	30	0	1
1307	2490	2498	2585	2577	30	30	0	1	1308	2577	2585	2675	2648	30	30	0	1
1309	2648	2675	2772	2748	30	30	0	1	1310	2748	2772	2958	2967	30	30	0	1
1311	2967	2958	3821	5352	30	30	0	1	1312	5352	3821	5520	5528	30	30	0	1
1313	5528	5520	5616	5624	30	30	0	1	1314	5624	5616	5720	5712	30	30	0	1
1315	5712	5720	5864	5850	30	30	0	1	1316	5850	5864	5960	5904	30	30	0	1
1317	5904	5960	6056	6040	30	30	0	1	1318	6040	6056	6152	6136	30	30	0	1
1319	6136	6152	7706	7714	30	30	0	1	1320	1970	1962	2152	2141	30	30	0	1
1321	2141	2152	2271	2260	30	30	0	1	1322	2260	2271	2390	2379	30	30	0	1
1323	2379	2390	2509	2498	30	30	0	1	1324	2498	2509	2596	2585	30	30	0	1
1325	2585	2596	2686	2675	30	30	0	1	1326	2675	2686	2797	2772	30	30	0	1
1327	2772	2797	3008	2958	30	30	0	1	1328	2958	3008	5411	3821	30	30	0	1
1329	3821	5411	5577	5520	30	30	0	1	1330	5520	5577	5681	5616	30	30	0	1
1331	5616	5681	5785	5720	30	30	0	1	1332	5720	5785	5881	5864	30	30	0	1
1333	5864	5881	5977	5960	30	30	0	1	1334	5960	5977	6073	6056	30	30	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
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1337	2832	2860	3055	3037	30	30	0	1	1338	2860	2892	3068	3055	30	30	0	1
1339	2892	2915	3082	3068	30	30	0	1	1340	2944	5371	3082	2915	30	30	0	1
1341	5371	5379	3068	3082	30	30	0	1	1342	5379	5387	3055	3068	30	30	0	1
1343	5387	5395	3037	3055	30	30	0	1	1344	5395	5403	3019	3037	30	30	0	1
1345	5411	3008	3019	5403	30	30	0	1	1346	2797	2814	3019	3008	30	30	0	1
1347	2814	2832	3037	3019	30	30	0	1	1348	6193	6185	7690	7698	30	30	0	1
1349	6185	6177	7682	7690	30	30	0	1	1350	6177	6169	7674	7682	30	30	0	1
1351	7786	7794	6209	6201	30	30	0	1	1352	7794	7802	6217	6209	30	30	0	1
1353	7802	7810	6225	6217	30	30	0	1	1354	5465	5473	3075	3032	30	30	0	1
1355	5473	5481	3089	3075	30	30	0	1	1356	5489	2952	3089	5481	30	30	0	1
1357	2952	2919	3075	3089	30	30	0	1	1358	2919	2896	3032	3075	30	30	0	1
1359	2896	2864	2923	3032	30	30	0	1	1360	2864	2836	2903	2923	30	30	0	1
1361	2836	2818	3004	2903	30	30	0	1	1362	2805	3012	3004	2818	30	30	0	1
1363	5449	5457	3004	3012	30	30	0	1	1364	5457	5465	3032	3004	30	30	0	1
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1367	2161	2146	2265	2280	30	30	0	1	1368	2280	2265	2384	2399	30	30	0	1
1369	2399	2384	2503	2518	30	30	0	1	1370	2518	2503	2590	2605	30	30	0	1
1371	2605	2590	2680	2695	30	30	0	1	1372	2695	2680	2777	2806	30	30	0	1
1373	2806	2777	2963	3013	30	30	0	1	1374	3013	2963	4622	5450	30	30	0	1
1375	5450	4622	5525	5586	30	30	0	1	1376	5586	5525	5621	5690	30	30	0	1
1377	5690	5621	5725	5794	30	30	0	1	1378	5794	5725	5869	5890	30	30	0	1
1379	5890	5869	5965	5986	30	30	0	1	1380	5986	5965	6061	6082	30	30	0	1
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1383	2044	2036	2138	2146	30	30	0	1	1384	2146	2138	2257	2265	30	30	0	1
1385	2265	2257	2376	2384	30	30	0	1	1386	2384	2376	2495	2503	30	30	0	1
1387	2503	2495	2582	2590	30	30	0	1	1388	2590	2582	2653	2680	30	30	0	1
1389	2680	2653	2753	2777	30	30	0	1	1390	2777	2753	2972	2963	30	30	0	1
1391	2963	2972	5357	4622	30	30	0	1	1392	4622	5357	5533	5525	30	30	0	1
1393	5525	5533	5629	5621	30	30	0	1	1394	5621	5629	5717	5725	30	30	0	1
1395	5725	5717	5855	5869	30	30	0	1	1396	5869	5855	5909	5965	30	30	0	1
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1399	6157	6144	7771	7779	30	30	0	1	1400	2036	2028	2134	2138	30	30	0	1
1401	2138	2134	2249	2257	30	30	0	1	1402	2257	2249	2360	2376	30	30	0	1
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1427	5541	5595	5675	5637	30	30	0	1	1428	5637	5675	5753	5733	30	30	0	1
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1431	5951	5937	6026	6034	30	30	0	1	1432	6034	6026	6133	6095	30	30	0	1
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1435	2130	2126	2241	2245	30	30	0	1	1436	2245	2241	2368	2356	30	30	0	1
1437	2356	2368	2487	2479	30	30	0	1	1438	2479	2487	2574	2566	30	30	0	1
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1441	2769	2785	3000	2992	30	30	0	1	1442	2992	3000	5507	5499	30	30	0	1
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1445	5675	5699	5773	5753	30	30	0	1	1446	5753	5773	5841	5827	30	30	0	1
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1453	2241	2237	2364	2368	30	30	0	1	1454	2368	2364	2483	2487	30	30	0	1
1455	2487	2483	2570	2574	30	30	0	1	1456	2574	2570	2665	2669	30	30	0	1
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1459	3000	2996	5503	5507	30	30	0	1	1460	5507	5503	5599	5603	30	30	0	1
1461	5603	5599	5695	5699	30	30	0	1	1462	5699	5695	5769	5773	30	30	0	1
1463	5773	5769	5837	5841	30	30	0	1	1464	5841	5837	5925	5929	30	30	0	1
1465	5929	5925	6011	6015	30	30	0	1	1466	6015	6011	6109	6119	30	30	0	1
1467	6119	6109	7739	7747	30	30	0	1	1468	2003	1995	2118	2122	30	30	0	1
1469	2122	2118	2233	2237	30	30	0	1	1470	2237	2233	2352	2364	30	30	0	1
1471	2364	2352	2475	2483	30	30	0	1	1472	2483	2475	2562	2570	30	30	0	1
1473	2570	2562	2657	2665	30	30	0	1	1474	2665	2657	2765	2781	30	30	0	1
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1477	5503	5495	5591	5599	30	30	0	1	1478	5599	5591	5671	5695	30	30	0	1
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1483	6011	6019	6123	6109	30	30	0	1	1484	6109	6123	7731	7739	30	30	0	1
1485	1995	1987	2114	2118	30	30	0	1	1486	2118	2114	2229	2233	30	30	0	1
1487	2233	2229	2348	2352	30	30	0	1	1488	2352	2348	2467	2475	30	30	0	1
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1493	2988	2976	5361	5495	30	30	0	1	1494	5495	5361	5537	5591	30	30	0	1
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1501	6123	6102	7723	7731	30	30	0	1	1502	1987	1979	2110	2114	30	30	0	1
1503	2114	2110	2253	2229	30	30	0	1	1504	2229	2253	2372	2348	30	30	0	1
1505	2348	2372	2491	2467	30	30	0	1	1506	2467	2491	2578	2554	30	30	0	1
1507	2554	2578	2649	2641	30	30	0	1	1508	2641	2649	2749	2757	30	30	0	1
1509	2757	2749	2968	2976	30	30	0	1	1510	2976	2968	5353	5361	30	30	0	1
1511	5361	5353	5529	5537	30	30	0	1	1512	5537	5529	5625	5633	30	30	0	1
1513	5633	5625	5713	5729	30	30	0	1	1514	5729	5713	5851	5815	30	30	0	1
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1517	6030	6041	6137	6102	30	30	0	1	1518	6102	6137	7715	7723	30	30	0	1
1519	1979	1971	2142	2110	30	30	0	1	1520	2110	2142	2261	2253	30	30	0	1
1521	2253	2261	2380	2372	30	30	0	1	1522	2372	2380	2499	2491	30	30	0	1
1523	2491	2499	2586	2578	30	30	0	1	1524	2578	2586	2676	2649	30	30	0	1
1525	2649	2676	2773	2749	30	30	0	1	1526	2749	2773	2959	2968	30	30	0	1
1527	2968	2959	3833	5353	30	30	0	1	1528	5353	3833	5521	5529	30	30	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
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1531	5713	5721	5865	5851	30	30	0	1	1532	5851	5865	5961	5905	30	30	0	1
1533	5905	5961	6057	6041	30	30	0	1	1534	6041	6057	6153	6137	30	30	0	1
1535	6137	6153	7707	7715	30	30	0	1	1536	1971	1963	2153	2142	30	30	0	1
1537	2142	2153	2272	2261	30	30	0	1	1538	2261	2272	2391	2380	30	30	0	1
1539	2380	2391	2510	2499	30	30	0	1	1540	2499	2510	2597	2586	30	30	0	1
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1551	6057	6074	6194	6153	30	30	0	1	1552	6153	6194	7699	7707	30	30	0	1
1553	2833	2861	3056	3038	30	30	0	1	1554	2861	2893	3069	3056	30	30	0	1
1555	2893	2916	3083	3069	30	30	0	1	1556	2945	5372	3083	2916	30	30	0	1
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1561	5412	3009	3020	5404	30	30	0	1	1562	2798	2815	3020	3009	30	30	0	1
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1569	7803	7811	6226	6218	30	30	0	1	1570	5466	5474	3076	3033	30	30	0	1
1571	5474	5482	3090	3076	30	30	0	1	1572	5490	2953	3090	5482	30	30	0	1
1573	2953	2920	3076	3090	30	30	0	1	1574	2920	2897	3033	3076	30	30	0	1
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1581	3033	2924	2904	3005	30	30	0	1	1582	2954	2912	5483	5491	30	30	0	1
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1585	2850	2829	5459	5467	30	30	0	1	1586	2829	2807	5451	5459	30	30	0	1
1587	2053	2045	2164	2162	30	30	0	1	1588	2162	2164	2283	2281	30	30	0	1
1589	2281	2283	2402	2400	30	30	0	1	1590	2400	2402	2521	2519	30	30	0	1
1591	2519	2521	2617	2606	30	30	0	1	1592	2606	2617	2707	2696	30	30	0	1
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1601	2707	2715	2857	2839	30	30	0	1	1602	2839	2857	4553	4645	30	30	0	1
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1605	2285	2287	2406	2404	30	30	0	1	1606	2404	2406	2525	2523	30	30	0	1
1607	2523	2525	2621	2619	30	30	0	1	1608	2619	2621	2717	2715	30	30	0	1
1609	2715	2717	2870	2857	30	30	0	1	1610	2857	2870	4461	4553	30	30	0	1
1611	2029	2021	2170	2168	30	30	0	1	1612	2168	2170	2289	2287	30	30	0	1
1613	2287	2289	2408	2406	30	30	0	1	1614	2406	2408	2527	2525	30	30	0	1
1615	2525	2527	2623	2621	30	30	0	1	1616	2621	2623	2719	2717	30	30	0	1
1617	2717	2719	2873	2870	30	30	0	1	1618	2870	2873	4369	4461	30	30	0	1
1619	2021	2013	2172	2170	30	30	0	1	1620	2170	2172	2291	2289	30	30	0	1
1621	2289	2291	2410	2408	30	30	0	1	1622	2408	2410	2529	2527	30	30	0	1
1623	2527	2529	2625	2623	30	30	0	1	1624	2623	2625	2721	2719	30	30	0	1
1625	2719	2721	2875	2873	30	30	0	1	1626	2873	2875	4277	4369	30	30	0	1
1627	2013	2004	2171	2172	30	30	0	1	1628	2172	2171	2290	2291	30	30	0	1
1629	2291	2290	2409	2410	30	30	0	1	1630	2410	2409	2528	2529	30	30	0	1
1631	2529	2528	2624	2625	30	30	0	1	1632	2625	2624	2720	2721	30	30	0	1
1633	2721	2720	2874	2875	30	30	0	1	1634	2875	2874	4185	4277	30	30	0	1
1635	2004	1996	2169	2171	30	30	0	1	1636	2171	2169	2288	2290	30	30	0	1
1637	2290	2288	2407	2409	30	30	0	1	1638	2409	2407	2526	2528	30	30	0	1
1639	2528	2526	2622	2624	30	30	0	1	1640	2624	2622	2718	2720	30	30	0	1
1641	2720	2718	2872	2874	30	30	0	1	1642	2874	2872	4093	4185	30	30	0	1
1643	1996	1988	2167	2169	30	30	0	1	1644	2169	2167	2286	2288	30	30	0	1
1645	2288	2286	2405	2407	30	30	0	1	1646	2407	2405	2524	2526	30	30	0	1
1647	2526	2524	2620	2622	30	30	0	1	1648	2622	2620	2716	2718	30	30	0	1
1649	2718	2716	2869	2872	30	30	0	1	1650	2872	2869	4001	4093	30	30	0	1
1651	1988	1980	2165	2167	30	30	0	1	1652	2167	2165	2284	2286	30	30	0	1
1653	2286	2284	2403	2405	30	30	0	1	1654	2405	2403	2522	2524	30	30	0	1
1655	2524	2522	2618	2620	30	30	0	1	1656	2620	2618	2714	2716	30	30	0	1
1657	2716	2714	2856	2869	30	30	0	1	1658	2869	2856	3909	4001	30	30	0	1
1659	1980	1972	2163	2165	30	30	0	1	1660	2165	2163	2282	2284	30	30	0	1
1661	2284	2282	2401	2403	30	30	0	1	1662	2403	2401	2520	2522	30	30	0	1
1663	2522	2520	2616	2618	30	30	0	1	1664	2618	2616	2706	2714	30	30	0	1
1665	2714	2706	2838	2856	30	30	0	1	1666	2856	2838	3845	3909	30	30	0	1
1667	1972	1964	2154	2163	30	30	0	1	1668	2163	2154	2273	2282	30	30	0	1
1669	2282	2273	2392	2401	30	30	0	1	1670	2401	2392	2511	2520	30	30	0	1
1671	2520	2511	2598	2616	30	30	0	1	1672	2616	2598	2688	2706	30	30	0	1
1673	2706	2688	2799	2838	30	30	0	1	1674	2838	2799	5413	3845	30	30	0	1
1675	2799	2825	5405	5413	30	30	0	1	1676	2825	2846	5397	5405	30	30	0	1
1677	2846	2879	5389	5397	30	30	0	1	1678	2879	2908	5381	5389	30	30	0	1
1679	2908	2946	5373	5381	30	30	0	1	1680	5683	5787	5709	5613	30	30	0	1
1681	5787	5883	5805	5709	30	30	0	1	1682	5883	5979	5901	5805	30	30	0	1
1683	5979	6075	6053	5901	30	30	0	1	1684	6075	6195	6149	6053	30	30	0	1
1685	7700	7708	6149	6195	30	30	0	1	1686	7708	7716	6091	6149	30	30	0	1
1687	7716	7724	6089	6091	30	30	0	1	1688	7724	7732	6087	6089	30	30	0	1
1689	7732	7740	6086	6087	30	30	0	1	1690	7740	7748	6084	6086	30	30	0	1
1691	7748	7756	6085	6084	30	30	0	1	1692	7756	7764	6088	6085	30	30	0	1
1693	7764	7772	6090	6088	30	30	0	1	1694	7772	7780	6148	6090	30	30	0	1
1695	7788	6203	6148	7780	30	30	0	1	1696	6203	6083	6052	6148	30	30	0	1
1697	6083	5987	5900	6052	30	30	0	1	1698	5987	5891	5804	5900	30	30	0	1
1699	5891	5795	5708	5804	30	30	0	1	1700	5795	5691	5612	5708	30	30	0	1
1701	5691	5587	5516	5612	30	30	0	1	1702	5451	4645	5516	5587	30	30	0	1
1703	4645	4553	5514	5516	30	30	0	1	1704	4553	4461	5512	5514	30	30	0	1
1705	4461	4369	5508	5512	30	30	0	1	1706	4369	4277	5509	5508	30	30	0	1
1707	4277	4185	5510	5509	30	30	0	1	1708	4185	4093	5511	5510	30	30	0	1
1709	4093	4001	5513	5511	30	30	0	1	1710	4001	3909	5515	5513	30	30	0	1
1711	3909	3845	5517	5515	30	30	0	1	1712	5413	5579	5517	3845	30	30	0	1
1713	5579	5683	5613	5517	30	30	0	1	1714	5510	5511	5607	5604	30	30	0	1
1715	5511	5513	5609	5607	30	30	0	1	1716	5513	5515	5611	5609	30	30	0	1
1717	5515	5517	5613	5611	30	30	0	1	1718	5604	5607	5703	5700	30	30	0	1
1719	5607	5609	5705	5703	30	30	0	1	1720	5609	5611	5707	5705	30	30	0	1
1721	5611	5613	5709	5707	30	30	0	1	1722	5700	5703	5799	5797	30	30	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat. Ind.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat. Ind.
1723	5703	5705	5801	5799	30	30	0	1	1724	5705	5707	5803	5801	30	30	0	1
1725	5707	5709	5805	5803	30	30	0	1	1726	5797	5799	5895	5894	30	30	0	1
1727	5799	5801	5897	5895	30	30	0	1	1728	5801	5803	5899	5897	30	30	0	1
1729	5803	5805	5901	5899	30	30	0	1	1730	5894	5895	5992	5990	30	30	0	1
1731	5895	5897	5993	5992	30	30	0	1	1732	5897	5899	5995	5993	30	30	0	1
1733	5899	5901	6053	5995	30	30	0	1	1734	5990	5992	6087	6086	30	30	0	1
1735	5992	5993	6089	6087	30	30	0	1	1736	5993	5995	6091	6089	30	30	0	1
1737	5995	6053	6149	6091	30	30	0	1	1738	6086	6084	5988	5990	30	30	0	1
1739	6084	6085	5989	5988	30	30	0	1	1740	6085	6088	5991	5989	30	30	0	1
1741	6088	6090	5994	5991	30	30	0	1	1742	6090	6148	6052	5994	30	30	0	1
1743	5990	5988	5892	5894	30	30	0	1	1744	5988	5989	5893	5892	30	30	0	1
1745	5989	5991	5896	5893	30	30	0	1	1746	5991	5994	5898	5896	30	30	0	1
1747	5994	6052	5900	5898	30	30	0	1	1748	5894	5892	5796	5797	30	30	0	1
1749	5892	5893	5798	5796	30	30	0	1	1750	5893	5896	5800	5798	30	30	0	1
1751	5896	5898	5802	5800	30	30	0	1	1752	5898	5900	5804	5802	30	30	0	1
1753	5797	5796	5701	5700	30	30	0	1	1754	5796	5798	5702	5701	30	30	0	1
1755	5798	5800	5704	5702	30	30	0	1	1756	5800	5802	5706	5704	30	30	0	1
1757	5802	5804	5708	5706	30	30	0	1	1758	5700	5701	5605	5604	30	30	0	1
1759	5701	5702	5606	5605	30	30	0	1	1760	5702	5704	5608	5606	30	30	0	1
1761	5704	5706	5610	5608	30	30	0	1	1762	5706	5708	5612	5610	30	30	0	1
1763	5604	5605	5509	5510	30	30	0	1	1764	5605	5606	5508	5509	30	30	0	1
1765	5606	5608	5512	5508	30	30	0	1	1766	5608	5610	5514	5512	30	30	0	1
1767	5610	5612	5516	5514	30	30	0	1	1768	6195	6187	7692	7700	30	30	0	1
1769	6187	6179	7684	7692	30	30	0	1	1770	6179	6171	7676	7684	30	30	0	1
1771	7788	7796	6211	6203	30	30	0	1	1772	7796	7804	6219	6211	30	30	0	1
1773	7804	7812	6227	6219	30	30	0	1	1774	2	3	147	87	60	60	0	2
1775	87	147	227	172	60	60	0	2	1776	172	227	312	257	60	60	0	2
1777	257	312	402	342	60	60	0	2	1778	342	402	487	427	60	60	0	2
1779	427	487	572	512	60	60	0	2	1780	512	572	657	597	60	60	0	2
1781	597	657	742	682	60	60	0	2	1782	682	742	827	767	60	60	0	2
1783	767	827	912	852	60	60	0	2	1784	852	912	997	937	60	60	0	2
1785	937	997	1082	1022	60	60	0	2	1786	1022	1082	1167	1107	60	60	0	2
1787	1107	1167	1252	1192	60	60	0	2	1788	1192	1252	1337	1277	60	60	0	2
1789	1277	1337	1422	1362	60	60	0	2	1790	1362	1422	1507	1447	60	60	0	2
1791	1447	1507	1592	1532	60	60	0	2	1792	1532	1592	1677	1617	60	60	0	2
1793	1617	1677	1762	1702	60	60	0	2	1794	1702	1762	1847	1787	60	60	0	2
1795	1787	1847	1873	1872	60	60	0	2	1796	3	4	160	147	60	60	0	2
1797	147	160	239	227	60	60	0	2	1798	227	239	330	312	60	60	0	2
1799	312	330	416	402	60	60	0	2	1800	402	416	504	487	60	60	0	2
1801	487	504	589	572	60	60	0	2	1802	572	589	674	657	60	60	0	2
1803	657	674	759	742	60	60	0	2	1804	742	759	844	827	60	60	0	2
1805	827	844	929	912	60	60	0	2	1806	912	929	1014	997	60	60	0	2
1807	997	1014	1099	1082	60	60	0	2	1808	1082	1099	1184	1167	60	60	0	2
1809	1167	1184	1269	1252	60	60	0	2	1810	1252	1269	1354	1337	60	60	0	2
1811	1337	1354	1439	1422	60	60	0	2	1812	1422	1439	1523	1507	60	60	0	2
1813	1507	1523	1606	1592	60	60	0	2	1814	1592	1606	1690	1677	60	60	0	2
1815	1677	1690	1776	1762	60	60	0	2	1816	1762	1776	1864	1847	60	60	0	2
1817	1847	1864	1874	1873	60	60	0	2	1818	4	5	148	160	60	60	0	2
1819	160	148	231	239	60	60	0	2	1820	239	231	323	330	60	60	0	2
1821	330	323	410	416	60	60	0	2	1822	416	410	499	504	60	60	0	2
1823	504	499	581	589	60	60	0	2	1824	589	581	663	674	60	60	0	2
1825	674	663	748	759	60	60	0	2	1826	759	748	833	844	60	60	0	2
1827	844	833	917	929	60	60	0	2	1828	929	917	1002	1014	60	60	0	2
1829	1014	1002	1088	1099	60	60	0	2	1830	1099	1088	1174	1184	60	60	0	2
1831	1184	1174	1259	1269	60	60	0	2	1832	1269	1259	1344	1354	60	60	0	2
1833	1354	1344	1429	1439	60	60	0	2	1834	1439	1429	1517	1523	60	60	0	2
1835	1523	1517	1593	1606	60	60	0	2	1836	1606	1593	1678	1690	60	60	0	2
1837	1690	1678	1763	1776	60	60	0	2	1838	1776	1763	1849	1864	60	60	0	2
1839	1864	1849	1875	1874	60	60	0	2	1840	5	6	134	148	60	60	0	2
1841	148	134	219	231	60	60	0	2	1842	231	219	311	323	60	60	0	2
1843	323	311	399	410	60	60	0	2	1844	410	399	485	499	60	60	0	2
1845	499	485	562	581	60	60	0	2	1846	581	562	647	663	60	60	0	2
1847	663	647	732	748	60	60	0	2	1848	748	732	817	833	60	60	0	2
1849	833	817	901	917	60	60	0	2	1850	917	901	987	1002	60	60	0	2
1851	1002	987	1072	1088	60	60	0	2	1852	1088	1072	1157	1174	60	60	0	2
1853	1174	1157	1242	1259	60	60	0	2	1854	1259	1242	1330	1344	60	60	0	2
1855	1344	1330	1415	1429	60	60	0	2	1856	1429	1415	1504	1517	60	60	0	2
1857	1517	1504	1590	1593	60	60	0	2	1858	1593	1590	1664	1678	60	60	0	2
1859	1678	1664	1749	1763	60	60	0	2	1860	1763	1749	1834	1849	60	60	0	2
1861	1849	1834	1876	1875	60	60	0	2	1862	6	7	121	134	60	60	0	2
1863	134	121	206	219	60	60	0	2	1864	219	206	302	311	60	60	0	2
1865	311	302	387	399	60	60	0	2	1866	399	387	472	485	60	60	0	2
1867	485	472	552	562	60	60	0	2	1868	562	552	632	647	60	60	0	2
1869	647	632	715	732	60	60	0	2	1870	732	715	797	817	60	60	0	2
1871	817	797	880	901	60	60	0	2	1872	901	880	965	987	60	60	0	2
1873	987	965	1051	1072	60	60	0	2	1874	1072	1051	1136	1157	60	60	0	2
1875	1157	1136	1221	1242	60	60	0	2	1876	1242	1221	1307	1330	60	60	0	2
1877	1330	1307	1401	1415	60	60	0	2	1878	1415	1401	1490	1504	60	60	0	2
1879	1504	1490	1577	1590	60	60	0	2	1880	1590	1577	1651	1664	60	60	0	2
1881	1664	1651	1736	1749	60	60	0	2	1882	1749	1736	1821	1834	60	60	0	2
1883	1834	1821	1877	1876	60	60	0	2	1884	7	8	108	121	60	60	0	2
1885	121	108	193	206	60	60	0	2	1886	206	193	278	302	60	60	0	2
1887	302	278	374	387	60	60	0	2	1888	387	374	458	472	60	60	0	2
1889	472	458	537	552	60	60	0	2	1890	552	537	620	632	60	60	0	2
1891	632	620	698	715	60	60	0	2	1892	715	698	782	797	60	60	0	2
1893	797	782	868	880	60	60	0	2	1894	880	868	954	965	60	60	0	2
1895	965	954	1039	1051	60	60	0	2	1896	1051	1039	1124	1136	60	60	0	2
1897	1136	1124	1208	1221	60	60	0	2	1898	1221	1208	1295	1307	60	60	0	2
1899	1307	1295	1380	1401	60	60	0	2	1900	1401	1380	1469	1490	60	60	0	2
1901	1490	1469	1553	1577	60	60	0	2	1902	1577	1553	1638	1651	60	60	0	2
1903	1651	1638	1723	1736	60	60	0	2	1904	1736	1723	1808	1821	60	60	0	2
1905	1821	1808	1878	1877	60	60	0	2	1906	8	9	95	108	60	60	0	2
1907	108	95	181	193	60	60	0	2	1908	193	181	266	278	60	60	0	2
1909	278	266	351	374	60	60	0	2	1910	374	351	436	458	60	60	0	2
1911	458	436	521	537	60	60	0	2	1912	537	521	606	620	60	60	0	2
1913	620	606	691	698	60	60	0	2	1914	698	691	775	782	60	60	0	2
1915	782	775	859	868	60	60	0	2	1916	868	859	944	954	60	60	0	2

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
1917	954	944	1029	1039	60	60	0	2	1918	1039	1029	1114	1124	60	60	0	2
1919	1124	1114	1199	1208	60	60	0	2	1920	1208	1199	1286	1295	60	60	0	2
1921	1295	1286	1371	1380	60	60	0	2	1922	1380	1371	1456	1469	60	60	0	2
1923	1469	1456	1541	1553	60	60	0	2	1924	1553	1541	1625	1638	60	60	0	2
1925	1638	1625	1710	1723	60	60	0	2	1926	1723	1710	1788	1808	60	60	0	2
1927	1808	1788	1879	1878	60	60	0	2	1928	9	10	90	95	60	60	0	2
1929	95	90	175	181	60	60	0	2	1930	181	175	260	266	60	60	0	2
1931	266	260	345	351	60	60	0	2	1932	351	345	430	436	60	60	0	2
1933	436	430	515	521	60	60	0	2	1934	521	515	600	606	60	60	0	2
1935	606	600	685	691	60	60	0	2	1936	691	685	770	775	60	60	0	2
1937	775	770	855	859	60	60	0	2	1938	859	855	940	944	60	60	0	2
1939	944	940	1025	1029	60	60	0	2	1940	1029	1025	1110	1114	60	60	0	2
1941	1114	1110	1195	1199	60	60	0	2	1942	1199	1195	1280	1286	60	60	0	2
1943	1286	1280	1365	1371	60	60	0	2	1944	1371	1365	1450	1456	60	60	0	2
1945	1456	1450	1535	1541	60	60	0	2	1946	1541	1535	1620	1625	60	60	0	2
1947	1625	1620	1705	1710	60	60	0	2	1948	1710	1705	1789	1788	60	60	0	2
1949	1788	1789	1880	1879	60	60	0	2	1950	10	11	96	90	60	60	0	2
1951	90	96	182	175	60	60	0	2	1952	175	182	267	260	60	60	0	2
1953	260	267	352	345	60	60	0	2	1954	345	352	437	430	60	60	0	2
1955	430	437	522	515	60	60	0	2	1956	515	522	618	600	60	60	0	2
1957	600	618	703	685	60	60	0	2	1958	685	703	781	770	60	60	0	2
1959	770	781	871	855	60	60	0	2	1960	855	871	952	940	60	60	0	2
1961	940	952	1038	1025	60	60	0	2	1962	1025	1038	1123	1110	60	60	0	2
1963	1110	1123	1207	1195	60	60	0	2	1964	1195	1207	1287	1280	60	60	0	2
1965	1280	1287	1372	1365	60	60	0	2	1966	1365	1372	1457	1450	60	60	0	2
1967	1450	1457	1542	1535	60	60	0	2	1968	1535	1542	1626	1620	60	60	0	2
1969	1620	1626	1711	1705	60	60	0	2	1970	1705	1711	1790	1789	60	60	0	2
1971	1789	1790	1881	1880	60	60	0	2	1972	11	12	109	96	60	60	0	2
1973	96	109	194	182	60	60	0	2	1974	182	194	279	267	60	60	0	2
1975	267	279	364	352	60	60	0	2	1976	352	364	448	437	60	60	0	2
1977	437	448	540	522	60	60	0	2	1978	522	540	627	618	60	60	0	2
1979	618	627	713	703	60	60	0	2	1980	703	713	799	781	60	60	0	2
1981	781	799	884	871	60	60	0	2	1982	871	884	968	952	60	60	0	2
1983	952	968	1050	1038	60	60	0	2	1984	1038	1050	1135	1123	60	60	0	2
1985	1123	1135	1219	1207	60	60	0	2	1986	1207	1219	1303	1287	60	60	0	2
1987	1287	1303	1381	1372	60	60	0	2	1988	1372	1381	1470	1457	60	60	0	2
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1991	1626	1639	1724	1711	60	60	0	2	1992	1711	1724	1809	1790	60	60	0	2
1993	1790	1809	1882	1881	60	60	0	2	1994	12	13	122	109	60	60	0	2
1995	109	122	207	194	60	60	0	2	1996	194	207	291	279	60	60	0	2
1997	279	291	376	364	60	60	0	2	1998	364	376	461	448	60	60	0	2
1999	448	461	555	540	60	60	0	2	2000	540	555	643	627	60	60	0	2
2001	627	643	727	713	60	60	0	2	2002	713	727	811	799	60	60	0	2
2003	799	811	894	884	60	60	0	2	2004	884	894	979	968	60	60	0	2
2005	968	979	1063	1050	60	60	0	2	2006	1050	1063	1147	1135	60	60	0	2
2007	1135	1147	1232	1219	60	60	0	2	2008	1219	1232	1316	1303	60	60	0	2
2009	1303	1316	1396	1381	60	60	0	2	2010	1381	1396	1481	1470	60	60	0	2
2011	1470	1481	1566	1554	60	60	0	2	2012	1554	1566	1652	1639	60	60	0	2
2013	1639	1652	1737	1724	60	60	0	2	2014	1724	1737	1822	1809	60	60	0	2
2015	1809	1822	1883	1882	60	60	0	2	2016	13	14	135	122	60	60	0	2
2017	122	135	220	207	60	60	0	2	2018	207	220	304	291	60	60	0	2
2019	291	304	389	376	60	60	0	2	2020	376	389	482	461	60	60	0	2
2021	461	482	569	555	60	60	0	2	2022	555	569	656	643	60	60	0	2
2023	643	656	737	727	60	60	0	2	2024	727	737	822	811	60	60	0	2
2025	811	822	907	894	60	60	0	2	2026	894	907	991	979	60	60	0	2
2027	979	991	1075	1063	60	60	0	2	2028	1063	1075	1160	1147	60	60	0	2
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2037	1822	1835	1884	1883	60	60	0	2	2038	14	15	149	135	60	60	0	2
2039	135	149	233	220	60	60	0	2	2040	220	233	318	304	60	60	0	2
2041	304	318	403	389	60	60	0	2	2042	389	403	498	482	60	60	0	2
2043	482	498	584	569	60	60	0	2	2044	569	584	668	656	60	60	0	2
2045	656	668	751	737	60	60	0	2	2046	737	751	836	822	60	60	0	2
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2049	991	1006	1089	1075	60	60	0	2	2050	1075	1089	1168	1160	60	60	0	2
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2055	1494	1516	1603	1579	60	60	0	2	2056	1579	1603	1679	1665	60	60	0	2
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2061	149	161	250	233	60	60	0	2	2062	233	250	332	318	60	60	0	2
2063	318	332	417	403	60	60	0	2	2064	403	417	505	498	60	60	0	2
2065	498	505	590	584	60	60	0	2	2066	584	590	675	668	60	60	0	2
2067	668	675	760	751	60	60	0	2	2068	751	760	845	836	60	60	0	2
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2071	1006	1015	1100	1089	60	60	0	2	2072	1089	1100	1185	1168	60	60	0	2
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2083	161	150	243	250	60	60	0	2	2084	250	243	327	332	60	60	0	2
2085	332	327	415	417	60	60	0	2	2086	417	415	500	505	60	60	0	2
2087	505	500	585	590	60	60	0	2	2088	590	585	670	675	60	60	0	2
2089	675	670	754	760	60	60	0	2	2090	760	754	837	845	60	60	0	2
2091	845	837	922	930	60	60	0	2	2092	930	922	1007	1015	60	60	0	2
2093	1015	1007	1092	1100	60	60	0	2	2094	1100	1092	1179	1185	60	60	0	2
2095	1185	1179	1267	1270	60	60	0	2	2096	1270	1267	1350	1355	60	60	0	2
2097	1355	1350	1435	1440	60	60	0	2	2098	1440	1435	1519	1527	60	60	0	2
2099	1527	1519	1594	1610	60	60	0	2	2100	1610	1594	1680	1691	60	60	0	2
2101	1691	1680	1765	1777	60	60	0	2	2102	1777	1765	1851	1865	60	60	0	2
2103	1865	1851	1887	1886	60	60	0	2	2104	17	18	136	150	60	60	0	2
2105	150	136	238	243	60	60	0	2	2106	243	238	315	327	60	60	0	2
2107	327	315	401	415	60	60	0	2	2108	415	401	486	500	60	60	0	2
2109	500	486	571	585	60	60	0	2	2110	585	571	655	670	60	60	0	2

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
2111	670	655	738	754	60	60	0	2	2112	754	738	824	837	60	60	0	2
2113	837	824	908	922	60	60	0	2	2114	922	908	993	1007	60	60	0	2
2115	1007	993	1077	1092	60	60	0	2	2116	1092	1077	1164	1179	60	60	0	2
2117	1179	1164	1247	1267	60	60	0	2	2118	1267	1247	1333	1350	60	60	0	2
2119	1350	1333	1421	1435	60	60	0	2	2120	1435	1421	1506	1519	60	60	0	2
2121	1519	1506	1580	1594	60	60	0	2	2122	1594	1580	1666	1680	60	60	0	2
2123	1680	1666	1751	1765	60	60	0	2	2124	1765	1751	1836	1851	60	60	0	2
2125	1851	1836	1888	1887	60	60	0	2	2126	18	19	123	136	60	60	0	2
2127	136	123	208	238	60	60	0	2	2128	238	208	300	315	60	60	0	2
2129	315	300	388	401	60	60	0	2	2130	401	388	473	486	60	60	0	2
2131	486	473	558	571	60	60	0	2	2132	571	558	641	655	60	60	0	2
2133	655	641	722	738	60	60	0	2	2134	738	722	806	824	60	60	0	2
2135	824	806	893	908	60	60	0	2	2136	908	893	977	993	60	60	0	2
2137	993	977	1064	1077	60	60	0	2	2138	1077	1064	1149	1164	60	60	0	2
2139	1164	1149	1234	1247	60	60	0	2	2140	1247	1234	1319	1333	60	60	0	2
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2143	1506	1491	1567	1580	60	60	0	2	2144	1580	1567	1653	1666	60	60	0	2
2145	1666	1653	1738	1751	60	60	0	2	2146	1751	1738	1823	1836	60	60	0	2
2147	1836	1823	1889	1888	60	60	0	2	2148	19	20	110	123	60	60	0	2
2149	123	110	195	208	60	60	0	2	2150	208	195	280	300	60	60	0	2
2151	300	280	375	388	60	60	0	2	2152	388	375	460	473	60	60	0	2
2153	473	460	545	558	60	60	0	2	2154	558	545	629	641	60	60	0	2
2155	641	629	714	722	60	60	0	2	2156	722	714	796	806	60	60	0	2
2157	806	796	878	893	60	60	0	2	2158	893	878	967	977	60	60	0	2
2159	977	967	1053	1064	60	60	0	2	2160	1064	1053	1138	1149	60	60	0	2
2161	1149	1138	1222	1234	60	60	0	2	2162	1234	1222	1306	1319	60	60	0	2
2163	1319	1306	1391	1405	60	60	0	2	2164	1405	1391	1471	1491	60	60	0	2
2165	1491	1471	1555	1567	60	60	0	2	2166	1567	1555	1640	1653	60	60	0	2
2167	1653	1640	1725	1738	60	60	0	2	2168	1738	1725	1810	1823	60	60	0	2
2169	1823	1810	1890	1889	60	60	0	2	2170	20	21	97	110	60	60	0	2
2171	110	97	183	195	60	60	0	2	2172	195	183	268	280	60	60	0	2
2173	280	268	353	375	60	60	0	2	2174	375	353	456	460	60	60	0	2
2175	460	456	531	545	60	60	0	2	2176	545	531	613	629	60	60	0	2
2177	629	613	697	714	60	60	0	2	2178	714	697	780	796	60	60	0	2
2179	796	780	870	878	60	60	0	2	2180	878	870	951	967	60	60	0	2
2181	967	951	1037	1053	60	60	0	2	2182	1053	1037	1121	1138	60	60	0	2
2183	1138	1121	1209	1222	60	60	0	2	2184	1222	1209	1293	1306	60	60	0	2
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2187	1471	1458	1543	1555	60	60	0	2	2188	1555	1543	1627	1640	60	60	0	2
2189	1640	1627	1712	1725	60	60	0	2	2190	1725	1712	1791	1810	60	60	0	2
2191	1810	1791	1891	1890	60	60	0	2	2192	21	22	91	97	60	60	0	2
2193	97	91	176	183	60	60	0	2	2194	183	176	261	268	60	60	0	2
2195	268	261	346	353	60	60	0	2	2196	353	346	431	456	60	60	0	2
2197	456	431	516	531	60	60	0	2	2198	531	516	601	613	60	60	0	2
2199	613	601	686	697	60	60	0	2	2200	697	686	771	780	60	60	0	2
2201	780	771	856	870	60	60	0	2	2202	870	856	941	951	60	60	0	2
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2205	1121	1111	1196	1209	60	60	0	2	2206	1209	1196	1281	1293	60	60	0	2
2207	1293	1281	1366	1373	60	60	0	2	2208	1373	1366	1451	1458	60	60	0	2
2209	1458	1451	1536	1543	60	60	0	2	2210	1543	1536	1621	1627	60	60	0	2
2211	1627	1621	1706	1712	60	60	0	2	2212	1712	1706	1792	1791	60	60	0	2
2213	1791	1792	1892	1891	60	60	0	2	2214	22	23	98	91	60	60	0	2
2215	91	98	184	176	60	60	0	2	2216	176	184	269	261	60	60	0	2
2217	261	269	354	346	60	60	0	2	2218	346	354	438	431	60	60	0	2
2219	431	438	530	516	60	60	0	2	2220	516	530	612	601	60	60	0	2
2221	601	612	701	686	60	60	0	2	2222	686	701	784	771	60	60	0	2
2223	771	784	866	856	60	60	0	2	2224	856	866	950	941	60	60	0	2
2225	941	950	1035	1026	60	60	0	2	2226	1026	1035	1120	1111	60	60	0	2
2227	1111	1120	1206	1196	60	60	0	2	2228	1196	1206	1288	1281	60	60	0	2
2229	1281	1288	1374	1366	60	60	0	2	2230	1366	1374	1459	1451	60	60	0	2
2231	1451	1459	1544	1536	60	60	0	2	2232	1536	1544	1628	1621	60	60	0	2
2233	1621	1628	1713	1706	60	60	0	2	2234	1706	1713	1793	1792	60	60	0	2
2235	1792	1793	1893	1892	60	60	0	2	2236	23	24	111	98	60	60	0	2
2237	98	111	196	184	60	60	0	2	2238	184	196	281	269	60	60	0	2
2239	269	281	365	354	60	60	0	2	2240	354	365	449	438	60	60	0	2
2241	438	449	543	530	60	60	0	2	2242	530	543	624	612	60	60	0	2
2243	612	624	709	701	60	60	0	2	2244	701	709	800	784	60	60	0	2
2245	784	800	883	866	60	60	0	2	2246	866	883	964	950	60	60	0	2
2247	950	964	1049	1035	60	60	0	2	2248	1035	1049	1134	1120	60	60	0	2
2249	1120	1134	1218	1206	60	60	0	2	2250	1206	1218	1304	1288	60	60	0	2
2251	1288	1304	1390	1374	60	60	0	2	2252	1374	1390	1472	1459	60	60	0	2
2253	1459	1472	1556	1544	60	60	0	2	2254	1544	1556	1641	1628	60	60	0	2
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2257	1793	1811	1894	1893	60	60	0	2	2258	24	25	124	111	60	60	0	2
2259	111	124	209	196	60	60	0	2	2260	196	209	292	281	60	60	0	2
2261	281	292	377	365	60	60	0	2	2262	365	377	466	449	60	60	0	2
2263	449	466	554	543	60	60	0	2	2264	543	554	638	624	60	60	0	2
2265	624	638	723	709	60	60	0	2	2266	709	723	810	800	60	60	0	2
2267	800	810	892	883	60	60	0	2	2268	883	892	978	964	60	60	0	2
2269	964	978	1062	1049	60	60	0	2	2270	1049	1062	1146	1134	60	60	0	2
2271	1134	1146	1231	1218	60	60	0	2	2272	1218	1231	1317	1304	60	60	0	2
2273	1304	1317	1403	1390	60	60	0	2	2274	1390	1403	1486	1472	60	60	0	2
2275	1472	1486	1568	1556	60	60	0	2	2276	1556	1568	1654	1641	60	60	0	2
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2279	1811	1824	1895	1894	60	60	0	2	2280	25	26	137	124	60	60	0	2
2281	124	137	221	209	60	60	0	2	2282	209	221	305	292	60	60	0	2
2283	292	305	390	377	60	60	0	2	2284	377	390	483	466	60	60	0	2
2285	466	483	570	554	60	60	0	2	2286	554	570	654	638	60	60	0	2
2287	638	654	735	723	60	60	0	2	2288	723	735	819	810	60	60	0	2
2289	810	819	904	892	60	60	0	2	2290	892	904	988	978	60	60	0	2
2291	978	988	1074	1062	60	60	0	2	2292	1062	1074	1158	1146	60	60	0	2
2293	1146	1158	1244	1231	60	60	0	2	2294	1231	1244	1329	1317	60	60	0	2
2295	1317	1329	1413	1403	60	60	0	2	2296	1403	1413	1505	1486	60	60	0	2
2297	1486	1505	1589	1568	60	60	0	2	2298	1568	1589	1667	1654	60	60	0	2
2299	1654	1667	1752	1739	60	60	0	2	2300	1739	1752	1837	1824	60	60	0	2
2301	1824	1837	1896	1895	60	60	0	2	2302	26	27	151	137	60	60	0	2
2303	137	151	234	221	60	60	0	2	2304	221	234	319	305	60	60	0	2

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
2305	305	319	404	390	60	60	0	2	2306	390	404	497	483	60	60	0	2
2307	483	497	583	570	60	60	0	2	2308	570	583	664	654	60	60	0	2
2309	654	664	749	735	60	60	0	2	2310	735	749	834	819	60	60	0	2
2311	819	834	916	904	60	60	0	2	2312	904	916	1001	988	60	60	0	2
2313	988	1001	1087	1074	60	60	0	2	2314	1074	1087	1169	1158	60	60	0	2
2315	1158	1169	1254	1244	60	60	0	2	2316	1244	1254	1339	1329	60	60	0	2
2317	1329	1339	1423	1413	60	60	0	2	2318	1413	1423	1521	1505	60	60	0	2
2319	1505	1521	1604	1589	60	60	0	2	2320	1589	1604	1681	1667	60	60	0	2
2321	1667	1681	1766	1752	60	60	0	2	2322	1752	1766	1852	1837	60	60	0	2
2323	1837	1852	1897	1896	60	60	0	2	2324	27	28	162	151	60	60	0	2
2325	151	162	247	234	60	60	0	2	2326	234	247	333	319	60	60	0	2
2327	319	333	418	404	60	60	0	2	2328	404	418	506	497	60	60	0	2
2329	497	506	591	583	60	60	0	2	2330	583	591	676	664	60	60	0	2
2331	664	676	761	749	60	60	0	2	2332	749	761	846	834	60	60	0	2
2333	834	846	931	916	60	60	0	2	2334	916	931	1016	1001	60	60	0	2
2335	1001	1016	1101	1087	60	60	0	2	2336	1087	1101	1186	1169	60	60	0	2
2337	1169	1186	1271	1254	60	60	0	2	2338	1254	1271	1356	1339	60	60	0	2
2339	1339	1356	1441	1423	60	60	0	2	2340	1423	1441	1528	1521	60	60	0	2
2341	1521	1528	1611	1604	60	60	0	2	2342	1604	1611	1692	1681	60	60	0	2
2343	1681	1692	1778	1766	60	60	0	2	2344	1766	1778	1866	1852	60	60	0	2
2345	1852	1866	1898	1897	60	60	0	2	2346	28	29	152	162	60	60	0	2
2347	162	152	242	247	60	60	0	2	2348	247	242	326	333	60	60	0	2
2349	333	326	411	418	60	60	0	2	2350	418	411	488	506	60	60	0	2
2351	506	488	578	591	60	60	0	2	2352	591	578	666	676	60	60	0	2
2353	676	666	752	761	60	60	0	2	2354	761	752	838	846	60	60	0	2
2355	846	838	923	931	60	60	0	2	2356	931	923	1009	1016	60	60	0	2
2357	1016	1009	1094	1101	60	60	0	2	2358	1101	1094	1178	1186	60	60	0	2
2359	1186	1178	1262	1271	60	60	0	2	2360	1271	1262	1349	1356	60	60	0	2
2361	1356	1349	1432	1441	60	60	0	2	2362	1441	1432	1508	1528	60	60	0	2
2363	1528	1508	1595	1611	60	60	0	2	2364	1611	1595	1682	1692	60	60	0	2
2365	1692	1682	1767	1778	60	60	0	2	2366	1778	1767	1853	1866	60	60	0	2
2367	1866	1853	1899	1898	60	60	0	2	2368	29	30	138	152	60	60	0	2
2369	152	138	232	242	60	60	0	2	2370	242	232	317	326	60	60	0	2
2371	326	317	400	411	60	60	0	2	2372	411	400	484	488	60	60	0	2
2373	488	484	565	578	60	60	0	2	2374	578	565	650	666	60	60	0	2
2375	666	650	740	752	60	60	0	2	2376	752	740	825	838	60	60	0	2
2377	838	825	910	923	60	60	0	2	2378	923	910	995	1009	60	60	0	2
2379	1009	995	1078	1094	60	60	0	2	2380	1094	1078	1162	1178	60	60	0	2
2381	1178	1162	1249	1262	60	60	0	2	2382	1262	1249	1334	1349	60	60	0	2
2383	1349	1334	1420	1432	60	60	0	2	2384	1432	1420	1503	1508	60	60	0	2
2385	1508	1503	1581	1595	60	60	0	2	2386	1595	1581	1668	1682	60	60	0	2
2387	1682	1668	1753	1767	60	60	0	2	2388	1767	1753	1838	1853	60	60	0	2
2389	1853	1838	1900	1899	60	60	0	2	2390	30	31	125	138	60	60	0	2
2391	138	125	210	232	60	60	0	2	2392	232	210	301	317	60	60	0	2
2393	317	301	386	400	60	60	0	2	2394	400	386	468	484	60	60	0	2
2395	484	468	550	565	60	60	0	2	2396	565	550	636	650	60	60	0	2
2397	650	636	726	740	60	60	0	2	2398	740	726	812	825	60	60	0	2
2399	825	812	897	910	60	60	0	2	2400	910	897	982	995	60	60	0	2
2401	995	982	1065	1078	60	60	0	2	2402	1078	1065	1150	1162	60	60	0	2
2403	1162	1150	1236	1249	60	60	0	2	2404	1249	1236	1323	1334	60	60	0	2
2405	1334	1323	1408	1420	60	60	0	2	2406	1420	1408	1493	1503	60	60	0	2
2407	1503	1493	1569	1581	60	60	0	2	2408	1581	1569	1655	1668	60	60	0	2
2409	1668	1655	1740	1753	60	60	0	2	2410	1753	1740	1825	1838	60	60	0	2
2411	1838	1825	1901	1900	60	60	0	2	2412	31	32	112	125	60	60	0	2
2413	125	112	197	210	60	60	0	2	2414	210	197	282	301	60	60	0	2
2415	301	282	373	386	60	60	0	2	2416	386	373	459	468	60	60	0	2
2417	468	459	541	550	60	60	0	2	2418	550	541	625	636	60	60	0	2
2419	636	625	708	726	60	60	0	2	2420	726	708	801	812	60	60	0	2
2421	812	801	886	897	60	60	0	2	2422	897	886	969	982	60	60	0	2
2423	982	969	1057	1065	60	60	0	2	2424	1065	1057	1139	1150	60	60	0	2
2425	1150	1139	1223	1236	60	60	0	2	2426	1236	1223	1308	1323	60	60	0	2
2427	1323	1308	1395	1408	60	60	0	2	2428	1408	1395	1480	1493	60	60	0	2
2429	1493	1480	1557	1569	60	60	0	2	2430	1569	1557	1642	1655	60	60	0	2
2431	1655	1642	1727	1740	60	60	0	2	2432	1740	1727	1812	1825	60	60	0	2
2433	1825	1812	1902	1901	60	60	0	2	2434	32	33	99	112	60	60	0	2
2435	112	99	185	197	60	60	0	2	2436	197	185	270	282	60	60	0	2
2437	282	270	355	373	60	60	0	2	2438	373	355	439	459	60	60	0	2
2439	459	439	523	541	60	60	0	2	2440	541	523	617	625	60	60	0	2
2441	625	617	702	708	60	60	0	2	2442	708	702	789	801	60	60	0	2
2443	801	789	873	886	60	60	0	2	2444	886	873	958	969	60	60	0	2
2445	969	958	1040	1057	60	60	0	2	2446	1057	1040	1125	1139	60	60	0	2
2447	1139	1125	1205	1223	60	60	0	2	2448	1223	1205	1292	1308	60	60	0	2
2449	1308	1292	1385	1395	60	60	0	2	2450	1395	1385	1460	1480	60	60	0	2
2451	1480	1460	1545	1557	60	60	0	2	2452	1557	1545	1629	1642	60	60	0	2
2453	1642	1629	1714	1727	60	60	0	2	2454	1727	1714	1794	1812	60	60	0	2
2455	1812	1794	1903	1902	60	60	0	2	2456	33	34	92	99	60	60	0	2
2457	99	92	177	185	60	60	0	2	2458	185	177	262	270	60	60	0	2
2459	270	262	347	355	60	60	0	2	2460	355	347	432	439	60	60	0	2
2461	439	432	517	523	60	60	0	2	2462	523	517	602	617	60	60	0	2
2463	617	602	687	702	60	60	0	2	2464	702	687	772	789	60	60	0	2
2465	789	772	857	873	60	60	0	2	2466	873	857	942	958	60	60	0	2
2467	958	942	1027	1040	60	60	0	2	2468	1040	1027	1112	1125	60	60	0	2
2469	1125	1112	1197	1205	60	60	0	2	2470	1205	1197	1282	1292	60	60	0	2
2471	1292	1282	1367	1385	60	60	0	2	2472	1385	1367	1452	1460	60	60	0	2
2473	1460	1452	1537	1545	60	60	0	2	2474	1545	1537	1622	1629	60	60	0	2
2475	1629	1622	1707	1714	60	60	0	2	2476	1714	1707	1795	1794	60	60	0	2
2477	1794	1795	1904	1903	60	60	0	2	2478	34	35	100	92	60	60	0	2
2479	92	100	186	177	60	60	0	2	2480	177	186	271	262	60	60	0	2
2481	262	271	356	347	60	60	0	2	2482	347	356	440	432	60	60	0	2
2483	432	440	524	517	60	60	0	2	2484	517	524	607	602	60	60	0	2
2485	602	607	692	687	60	60	0	2	2486	687	692	776	772	60	60	0	2
2487	772	776	860	857	60	60	0	2	2488	857	860	945	942	60	60	0	2
2489	942	945	1030	1027	60	60	0	2	2490	1027	1030	1115	1112	60	60	0	2
2491	1112	1115	1200	1197	60	60	0	2	2492	1197	1200	1289	1282	60	60	0	2
2493	1282	1289	1375	1367	60	60	0	2	2494	1367	1375	1461	1452	60	60	0	2
2495	1452	1461	1546	1537	60	60	0	2	2496	1537	1546	1630	1622	60	60	0	2
2497	1622	1630	1715	1707	60	60	0	2	2498	1707	1715	1796	1795	60	60	0	2

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.
2499	1795	1796	1905	1904	60	60	0	2
2501	100	113	198	186	60	60	0	2
2503	271	283	366	356	60	60	0	2
2505	440	450	538	524	60	60	0	2
2507	607	621	705	692	60	60	0	2
2509	776	790	874	860	60	60	0	2
2511	945	959	1044	1030	60	60	0	2
2513	1115	1128	1215	1200	60	60	0	2
2515	1289	1299	1387	1375	60	60	0	2
2517	1461	1473	1558	1546	60	60	0	2
2519	1630	1643	1728	1715	60	60	0	2
2521	1796	1813	1906	1905	60	60	0	2
2523	113	126	211	198	60	60	0	2
2525	283	296	381	366	60	60	0	2
2527	450	464	548	538	60	60	0	2
2529	621	633	718	705	60	60	0	2
2531	790	803	887	874	60	60	0	2
2533	959	972	1055	1044	60	60	0	2
2535	1128	1140	1226	1215	60	60	0	2
2537	1299	1313	1400	1387	60	60	0	2
2539	1473	1487	1576	1558	60	60	0	2
2541	1643	1656	1741	1728	60	60	0	2
2543	1813	1826	1907	1906	60	60	0	2
2545	126	139	226	211	60	60	0	2
2547	296	309	394	381	60	60	0	2
2549	464	478	561	548	60	60	0	2
2551	633	644	729	718	60	60	0	2
2553	803	813	898	887	60	60	0	2
2555	972	983	1067	1055	60	60	0	2
2557	1140	1153	1239	1226	60	60	0	2
2559	1313	1325	1412	1400	60	60	0	2
2561	1487	1502	1588	1576	60	60	0	2
2563	1656	1675	1754	1741	60	60	0	2
2565	1826	1839	1908	1907	60	60	0	2
2567	139	159	241	226	60	60	0	2
2569	309	322	408	394	60	60	0	2
2571	478	495	576	561	60	60	0	2
2573	644	658	743	729	60	60	0	2
2575	813	828	913	898	60	60	0	2
2577	983	998	1083	1067	60	60	0	2
2579	1153	1170	1255	1239	60	60	0	2
2581	1325	1343	1427	1412	60	60	0	2
2583	1502	1514	1602	1588	60	60	0	2
2585	1675	1695	1774	1754	60	60	0	2
2587	1839	1854	1909	1908	60	60	0	2
2589	159	168	252	241	60	60	0	2
2591	322	337	425	408	60	60	0	2
2593	495	507	592	576	60	60	0	2
2595	658	677	762	743	60	60	0	2
2597	828	847	932	913	60	60	0	2
2599	998	1017	1102	1083	60	60	0	2
2601	1170	1187	1272	1255	60	60	0	2
2603	1343	1357	1442	1427	60	60	0	2
2605	1514	1530	1613	1602	60	60	0	2
2607	1695	1697	1782	1774	60	60	0	2
2609	1854	1870	1910	1909	60	60	0	2
2611	168	169	256	252	60	60	0	2
2613	337	341	424	425	60	60	0	2
2615	507	503	588	592	60	60	0	2
2617	677	673	758	762	60	60	0	2
2619	847	843	928	932	60	60	0	2
2621	1017	1013	1098	1102	60	60	0	2
2623	1187	1183	1268	1272	60	60	0	2
2625	1357	1353	1438	1442	60	60	0	2
2627	1530	1520	1607	1613	60	60	0	2
2629	1697	1698	1784	1782	60	60	0	2
2631	1870	1862	1911	1910	60	60	0	2
2633	169	170	255	256	60	60	0	2
2635	341	340	423	424	60	60	0	2
2637	503	501	586	588	60	60	0	2
2639	673	672	757	758	60	60	0	2
2641	843	842	927	928	60	60	0	2
2643	1013	1012	1097	1098	60	60	0	2
2645	1183	1182	1266	1268	60	60	0	2
2647	1353	1346	1436	1438	60	60	0	2
2649	1520	1522	1614	1607	60	60	0	2
2651	1698	1700	1783	1784	60	60	0	2
2653	1862	1848	1912	1911	60	60	0	2
2655	170	171	254	255	60	60	0	2
2657	340	339	422	423	60	60	0	2
2659	501	502	587	586	60	60	0	2
2661	672	671	756	757	60	60	0	2
2663	842	841	926	927	60	60	0	2
2665	1012	1010	1093	1097	60	60	0	2
2667	1182	1177	1265	1266	60	60	0	2
2669	1346	1352	1437	1436	60	60	0	2
2671	1522	1524	1616	1614	60	60	0	2
2673	1700	1701	1786	1783	60	60	0	2
2675	1848	1863	1913	1912	60	60	0	2
2677	171	167	253	254	60	60	0	2
2679	339	338	426	422	60	60	0	2
2681	502	508	593	587	60	60	0	2
2683	671	678	763	756	60	60	0	2
2685	841	848	933	926	60	60	0	2
2687	1010	1018	1103	1093	60	60	0	2
2689	1177	1188	1273	1265	60	60	0	2
2691	1352	1358	1443	1437	60	60	0	2

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.
2500	35	36	113	100	60	60	0	2
2502	186	198	283	271	60	60	0	2
2504	356	366	450	440	60	60	0	2
2506	524	538	621	607	60	60	0	2
2508	692	705	790	776	60	60	0	2
2510	860	874	959	945	60	60	0	2
2512	1030	1044	1128	1115	60	60	0	2
2514	1200	1215	1299	1289	60	60	0	2
2516	1375	1387	1473	1461	60	60	0	2
2518	1546	1558	1643	1630	60	60	0	2
2520	1715	1728	1813	1796	60	60	0	2
2522	36	37	126	113	60	60	0	2
2524	198	211	296	283	60	60	0	2
2526	366	381	464	450	60	60	0	2
2528	538	548	633	621	60	60	0	2
2530	705	718	803	790	60	60	0	2
2532	874	887	972	959	60	60	0	2
2534	1044	1055	1140	1128	60	60	0	2
2536	1215	1226	1313	1299	60	60	0	2
2538	1387	1400	1487	1473	60	60	0	2
2540	1558	1576	1656	1643	60	60	0	2
2542	1728	1741	1826	1813	60	60	0	2
2544	37	38	139	126	60	60	0	2
2546	211	226	309	296	60	60	0	2
2548	381	394	478	464	60	60	0	2
2550	548	561	644	633	60	60	0	2
2552	718	729	813	803	60	60	0	2
2554	887	898	983	972	60	60	0	2
2556	1055	1067	1153	1140	60	60	0	2
2558	1226	1239	1325	1313	60	60	0	2
2560	1400	1412	1502	1487	60	60	0	2
2562	1576	1588	1675	1656	60	60	0	2
2564	1741	1754	1839	1826	60	60	0	2
2566	38	39	159	139	60	60	0	2
2568	226	241	322	309	60	60	0	2
2570	394	408	495	478	60	60	0	2
2572	561	576	658	644	60	60	0	2
2574	729	743	828	813	60	60	0	2
2576	898	913	998	983	60	60	0	2
2578	1067	1083	1170	1153	60	60	0	2
2580	1239	1255	1343	1325	60	60	0	2
2582	1412	1427	1514	1502	60	60	0	2
2584	1588	1602	1695	1675	60	60	0	2
2586	1754	1774	1854	1839	60	60	0	2
2588	39	40	168	159	60	60	0	2
2590	241	252	337	322	60	60	0	2
2592	408	425	507	495	60	60	0	2
2594	576	592	677	658	60	60	0	2
2596	743	762	847	828	60	60	0	2
2598	913	932	1017	998	60	60	0	2
2600	1083	1102	1187	1170	60	60	0	2
2602	1255	1272	1357	1343	60	60	0	2
2604	1427	1442	1530	1514	60	60	0	2
2606	1602	1613	1697	1695	60	60	0	2
2608	1774	1782	1870	1854	60	60	0	2
2610	40	41	169	168	60	60	0	2
2612	252	256	341	337	60	60	0	2
2614	425	424	503	507	60	60	0	2
2616	592	588	673	677	60	60	0	2
2618	762	758	843	847	60	60	0	2
2620	932	928	1013	1017	60	60	0	2
2622	1102	1098	1183	1187	60	60	0	2
2624	1272	1268	1353	1357	60	60	0	2
2626	1442	1438	1520	1530	60	60	0	2
2628	1613	1607	1698	1697	60	60	0	2
2630	1782	1784	1862	1870	60	60	0	2
2632	41	42	170	169	60	60	0	2
2634	256	255	340	341	60	60	0	2
2636	424	423	501	503	60	60	0	2
2638	588	586	672	673	60	60	0	2
2640	758	757	842	843	60	60	0	2
2642	928	927	1012	1013	60	60	0	2
2644	1098	1097	1182	1183	60	60	0	2
2646	1268	1266	1346	1353	60	60	0	2
2648	1438	1436	1522	1520	60	60	0	2
2650	1607	1614	1700	1698	60	60	0	2
2652	1784	1783	1848	1862	60	60	0	2
2654	42	43	171	170	60	60	0	2
2656	255	254	339	340	60	60	0	2
2658	423	422	502	501	60	60	0	2
2660	586	587	671	672	60	60	0	2
2662	757	756	841	842	60	60	0	2
2664	927	926	1010	1012	60	60	0	2
2666	1097	1093	1177	1182	60	60	0	2
2668	1266	1265	1352	1346	60	60	0	2
2670	1436	1437	1524	1522	60	60	0	2
2672	1614	1616	1701	1700	60	60	0	2
2674	1783	1786	1863	1848	60	60	0	2
2676	43	44	167	171	60	60	0	2
2678	254	253	338	339	60	60	0	2
2680	422	426	508	502	60	60	0	2
2682	587	593	678	671	60	60	0	2
2684	756	763	848	841	60	60	0	2
2686	926	933	1018	1010	60	60	0	2
2688	1093	1103	1188	1177	60	60	0	2
2690	1265	1273	1358	1352	60	60	0	2
2692	1437	1443	1531	1524	60	60	0	2

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
2693	1524	1531	1615	1616	60	60	0	2	2694	1616	1615	1699	1701	60	60	0	2
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2697	1863	1871	1914	1913	60	60	0	2	2698	44	45	166	167	60	60	0	2
2699	167	166	251	253	60	60	0	2	2700	253	251	331	338	60	60	0	2
2701	338	331	414	426	60	60	0	2	2702	426	414	492	508	60	60	0	2
2703	508	492	577	593	60	60	0	2	2704	593	577	659	678	60	60	0	2
2705	678	659	744	763	60	60	0	2	2706	763	744	832	848	60	60	0	2
2707	848	832	919	933	60	60	0	2	2708	933	919	1005	1018	60	60	0	2
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2721	166	140	230	251	60	60	0	2	2722	251	230	316	331	60	60	0	2
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2877	297	313	397	383	60	60	0	2	2878	383	397	479	469	60	60	0	2
2879	469	479	563	556	60	60	0	2	2880	556	563	648	637	60	60	0	2
2881	637	648	733	720	60	60	0	2	2882	720	733	818	805	60	60	0	2
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2885	975	990	1076	1061	60	60	0	2	2886	1061	1076	1161	1148	60	60	0	2

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
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2891	1482	1495	1582	1570	60	60	0	2	2892	1570	1582	1669	1658	60	60	0	2
2893	1658	1669	1756	1743	60	60	0	2	2894	1743	1756	1841	1828	60	60	0	2
2895	1828	1841	1923	1922	60	60	0	2	2896	53	54	153	141	60	60	0	2
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2923	489	509	594	573	60	60	0	2	2924	573	594	679	660	60	60	0	2
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3065	1290	1283	1368	1376	60	60	0	2	3066	1376	1368	1453	1462	60	60	0	2
3067	1462	1453	1538	1547	60	60	0	2	3068	1547	1538	1623	1631	60	60	0	2
3069	1631	1623	1708	1718	60	60	0	2	3070	1718	1708	1800	1799	60	60	0	2
3071	1799	1800	1931	1930	60	60	0	2	3072	61	62	104	93	60	60	0	2
3073	93	104	188	178	60	60	0	2	3074	178	188	273	263	60	60	0	2
3075	263	273	358	348	60	60	0	2	3076	348	358	442	433	60	60	0	2
3077	433	442	526	518	60	60	0	2	3078	518	526	611	603	60	60	0	2
3079	603	611	695	688	60	60	0	2	3080	688	695	787	779	60	60	0	2

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
3081	779	787	876	863	60	60	0	2	3082	863	876	962	949	60	60	0	2
3083	949	962	1046	1034	60	60	0	2	3084	1034	1046	1131	1119	60	60	0	2
3085	1119	1131	1212	1203	60	60	0	2	3086	1203	1212	1294	1283	60	60	0	2
3087	1283	1294	1377	1368	60	60	0	2	3088	1368	1377	1463	1453	60	60	0	2
3089	1453	1463	1548	1538	60	60	0	2	3090	1538	1548	1632	1623	60	60	0	2
3091	1623	1632	1719	1708	60	60	0	2	3092	1708	1719	1801	1800	60	60	0	2
3093	1800	1801	1932	1931	60	60	0	2	3094	62	63	117	104	60	60	0	2
3095	104	117	202	188	60	60	0	2	3096	188	202	285	273	60	60	0	2
3097	273	285	368	358	60	60	0	2	3098	358	368	452	442	60	60	0	2
3099	442	452	535	526	60	60	0	2	3100	526	535	623	611	60	60	0	2
3101	611	623	711	695	60	60	0	2	3102	695	711	802	787	60	60	0	2
3103	787	802	889	876	60	60	0	2	3104	876	889	974	962	60	60	0	2
3105	962	974	1059	1046	60	60	0	2	3106	1046	1059	1144	1131	60	60	0	2
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3109	1294	1309	1392	1377	60	60	0	2	3110	1377	1392	1474	1463	60	60	0	2
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3113	1632	1647	1732	1719	60	60	0	2	3114	1719	1732	1817	1801	60	60	0	2
3115	1801	1817	1933	1932	60	60	0	2	3116	63	64	130	117	60	60	0	2
3117	117	130	215	202	60	60	0	2	3118	202	215	299	285	60	60	0	2
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3123	623	642	728	711	60	60	0	2	3124	711	728	816	802	60	60	0	2
3125	802	816	902	889	60	60	0	2	3126	889	902	986	974	60	60	0	2
3127	974	986	1071	1059	60	60	0	2	3128	1059	1071	1156	1144	60	60	0	2
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3131	1309	1322	1406	1392	60	60	0	2	3132	1392	1406	1483	1474	60	60	0	2
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3147	816	826	911	902	60	60	0	2	3148	902	911	996	986	60	60	0	2
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3151	1156	1166	1250	1237	60	60	0	2	3152	1237	1250	1336	1322	60	60	0	2
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3159	1830	1843	1935	1934	60	60	0	2	3160	65	66	155	143	60	60	0	2
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3163	314	328	413	396	60	60	0	2	3164	396	413	490	475	60	60	0	2
3165	475	490	580	566	60	60	0	2	3166	566	580	667	652	60	60	0	2
3167	652	667	755	741	60	60	0	2	3168	741	755	840	826	60	60	0	2
3169	826	840	925	911	60	60	0	2	3170	911	925	1011	996	60	60	0	2
3171	996	1011	1096	1081	60	60	0	2	3172	1081	1096	1180	1166	60	60	0	2
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3177	1496	1511	1598	1583	60	60	0	2	3178	1583	1598	1685	1671	60	60	0	2
3179	1671	1685	1770	1758	60	60	0	2	3180	1758	1770	1858	1843	60	60	0	2
3181	1843	1858	1936	1935	60	60	0	2	3182	66	67	164	155	60	60	0	2
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3187	490	510	595	580	60	60	0	2	3188	580	595	680	667	60	60	0	2
3189	667	680	765	755	60	60	0	2	3190	755	765	850	840	60	60	0	2
3191	840	850	935	925	60	60	0	2	3192	925	935	1020	1011	60	60	0	2
3193	1011	1020	1105	1096	60	60	0	2	3194	1096	1105	1190	1180	60	60	0	2
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3201	1685	1693	1780	1770	60	60	0	2	3202	1770	1780	1868	1858	60	60	0	2
3203	1858	1868	1937	1936	60	60	0	2	3204	67	68	156	164	60	60	0	2
3205	164	156	236	249	60	60	0	2	3206	249	236	320	335	60	60	0	2
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3211	680	662	747	765	60	60	0	2	3212	765	747	830	850	60	60	0	2
3213	850	830	915	935	60	60	0	2	3214	935	915	1000	1020	60	60	0	2
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3229	320	307	392	406	60	60	0	2	3230	406	392	476	494	60	60	0	2
3231	494	476	560	575	60	60	0	2	3232	575	560	646	662	60	60	0	2
3233	662	646	731	747	60	60	0	2	3234	747	731	815	830	60	60	0	2
3235	830	815	900	915	60	60	0	2	3236	915	900	985	1000	60	60	0	2
3237	1000	985	1069	1085	60	60	0	2	3238	1085	1069	1155	1172	60	60	0	2
3239	1172	1155	1240	1257	60	60	0	2	3240	1257	1240	1324	1341	60	60	0	2
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3247	1859	1844	1939	1938	60	60	0	2	3248	69	70	131	144	60	60	0	2
3249	144	131	216	223	60	60	0	2	3250	223	216	294	307	60	60	0	2
3251	307	294	379	392	60	60	0	2	3252	392	379	463	476	60	60	0	2
3253	476	463	549	560	60	60	0	2	3254	560	549	634	646	60	60	0	2
3255	646	634	719	731	60	60	0	2	3256	731	719	804	815	60	60	0	2
3257	815	804	888	900	60	60	0	2	3258	900	888	973	985	60	60	0	2
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3265	1497	1485	1572	1584	60	60	0	2	3266	1584	1572	1661	1672	60	60	0	2
3267	1672	1661	1746	1759	60	60	0	2	3268	1759	1746	1831	1844	60	60	0	2
3269	1844	1831	1940	1939	60	60	0	2	3270	70	71	118	131	60	60	0	2
3271	131	118	203	216	60	60	0	2	3272	216	203	286	294	60	60	0	2
3273	294	286	369	379	60	60	0	2	3274	379	369	453	463	60	60	0	2

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
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3277	634	622	706	719	60	60	0	2	3278	719	706	791	804	60	60	0	2
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3281	973	960	1045	1056	60	60	0	2	3282	1056	1045	1130	1142	60	60	0	2
3283	1142	1130	1214	1228	60	60	0	2	3284	1228	1214	1298	1312	60	60	0	2
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3287	1485	1475	1561	1572	60	60	0	2	3288	1572	1561	1648	1661	60	60	0	2
3289	1661	1648	1733	1746	60	60	0	2	3290	1746	1733	1818	1831	60	60	0	2
3291	1831	1818	1941	1940	60	60	0	2	3292	71	72	105	118	60	60	0	2
3293	118	105	189	203	60	60	0	2	3294	203	189	274	286	60	60	0	2
3295	286	274	359	369	60	60	0	2	3296	369	359	443	453	60	60	0	2
3297	453	443	527	539	60	60	0	2	3298	539	527	609	622	60	60	0	2
3299	622	609	694	706	60	60	0	2	3300	706	694	778	791	60	60	0	2
3301	791	778	862	875	60	60	0	2	3302	875	862	947	960	60	60	0	2
3303	960	947	1032	1045	60	60	0	2	3304	1045	1032	1117	1130	60	60	0	2
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3307	1298	1291	1378	1386	60	60	0	2	3308	1386	1378	1464	1475	60	60	0	2
3309	1475	1464	1549	1561	60	60	0	2	3310	1561	1549	1633	1648	60	60	0	2
3311	1648	1633	1720	1733	60	60	0	2	3312	1733	1720	1802	1818	60	60	0	2
3313	1818	1802	1942	1941	60	60	0	2	3314	72	73	94	105	60	60	0	2
3315	105	94	179	189	60	60	0	2	3316	189	179	264	274	60	60	0	2
3317	274	264	349	359	60	60	0	2	3318	359	349	434	443	60	60	0	2
3319	443	434	519	527	60	60	0	2	3320	527	519	604	609	60	60	0	2
3321	609	604	689	694	60	60	0	2	3322	694	689	773	778	60	60	0	2
3323	778	773	858	862	60	60	0	2	3324	862	858	943	947	60	60	0	2
3325	947	943	1028	1032	60	60	0	2	3326	1032	1028	1113	1117	60	60	0	2
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3333	1633	1624	1709	1720	60	60	0	2	3334	1720	1709	1803	1802	60	60	0	2
3335	1802	1803	1943	1942	60	60	0	2	3336	73	74	106	94	60	60	0	2
3337	94	106	190	179	60	60	0	2	3338	179	190	275	264	60	60	0	2
3339	264	275	360	349	60	60	0	2	3340	349	360	444	434	60	60	0	2
3341	434	444	528	519	60	60	0	2	3342	519	528	610	604	60	60	0	2
3343	604	610	696	689	60	60	0	2	3344	689	696	786	773	60	60	0	2
3345	773	786	869	858	60	60	0	2	3346	858	869	955	943	60	60	0	2
3347	943	955	1041	1028	60	60	0	2	3348	1028	1041	1127	1113	60	60	0	2
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3355	1624	1634	1721	1709	60	60	0	2	3356	1709	1721	1804	1803	60	60	0	2
3357	1803	1804	1944	1943	60	60	0	2	3358	74	75	119	106	60	60	0	2
3359	106	119	204	190	60	60	0	2	3360	190	204	287	275	60	60	0	2
3361	275	287	370	360	60	60	0	2	3362	360	370	454	444	60	60	0	2
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3365	610	616	707	696	60	60	0	2	3366	696	707	792	786	60	60	0	2
3367	786	792	882	869	60	60	0	2	3368	869	882	970	955	60	60	0	2
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3373	1296	1310	1393	1383	60	60	0	2	3374	1383	1393	1479	1465	60	60	0	2
3375	1465	1479	1562	1550	60	60	0	2	3376	1550	1562	1649	1634	60	60	0	2
3377	1634	1649	1734	1721	60	60	0	2	3378	1721	1734	1819	1804	60	60	0	2
3379	1804	1819	1945	1944	60	60	0	2	3380	75	76	132	119	60	60	0	2
3381	119	132	217	204	60	60	0	2	3382	204	217	298	287	60	60	0	2
3383	287	298	384	370	60	60	0	2	3384	370	384	467	454	60	60	0	2
3385	454	467	547	532	60	60	0	2	3386	532	547	635	616	60	60	0	2
3387	616	635	721	707	60	60	0	2	3388	707	721	809	792	60	60	0	2
3389	792	809	896	882	60	60	0	2	3390	882	896	981	970	60	60	0	2
3391	970	981	1070	1058	60	60	0	2	3392	1058	1070	1152	1143	60	60	0	2
3393	1143	1152	1235	1224	60	60	0	2	3394	1224	1235	1320	1310	60	60	0	2
3395	1310	1320	1407	1393	60	60	0	2	3396	1393	1407	1488	1479	60	60	0	2
3397	1479	1488	1573	1562	60	60	0	2	3398	1562	1573	1662	1649	60	60	0	2
3399	1649	1662	1747	1734	60	60	0	2	3400	1734	1747	1832	1819	60	60	0	2
3401	1819	1832	1946	1945	60	60	0	2	3402	76	77	145	132	60	60	0	2
3403	132	145	224	217	60	60	0	2	3404	217	224	310	298	60	60	0	2
3405	298	310	395	384	60	60	0	2	3406	384	395	477	467	60	60	0	2
3407	467	477	564	547	60	60	0	2	3408	547	564	651	635	60	60	0	2
3409	635	651	739	721	60	60	0	2	3410	721	739	823	809	60	60	0	2
3411	809	823	909	896	60	60	0	2	3412	896	909	994	981	60	60	0	2
3413	981	994	1080	1070	60	60	0	2	3414	1070	1080	1163	1152	60	60	0	2
3415	1152	1163	1248	1235	60	60	0	2	3416	1235	1248	1332	1320	60	60	0	2
3417	1320	1332	1417	1407	60	60	0	2	3418	1407	1417	1500	1488	60	60	0	2
3419	1488	1500	1585	1573	60	60	0	2	3420	1573	1585	1673	1662	60	60	0	2
3421	1662	1673	1760	1747	60	60	0	2	3422	1747	1760	1845	1832	60	60	0	2
3423	1832	1845	1947	1946	60	60	0	2	3424	77	78	157	145	60	60	0	2
3425	145	157	244	224	60	60	0	2	3426	224	244	325	310	60	60	0	2
3427	310	325	409	395	60	60	0	2	3428	395	409	491	477	60	60	0	2
3429	477	491	579	564	60	60	0	2	3430	564	579	665	651	60	60	0	2
3431	651	665	753	739	60	60	0	2	3432	739	753	839	823	60	60	0	2
3433	823	839	924	909	60	60	0	2	3434	909	924	1008	994	60	60	0	2
3435	994	1008	1095	1080	60	60	0	2	3436	1080	1095	1181	1163	60	60	0	2
3437	1163	1181	1264	1248	60	60	0	2	3438	1248	1264	1347	1332	60	60	0	2
3439	1332	1347	1431	1417	60	60	0	2	3440	1417	1431	1513	1500	60	60	0	2
3441	1500	1513	1600	1585	60	60	0	2	3442	1585	1600	1687	1673	60	60	0	2
3443	1673	1687	1772	1760	60	60	0	2	3444	1760	1772	1860	1845	60	60	0	2
3445	1845	1860	1948	1947	60	60	0	2	3446	78	79	165	157	60	60	0	2
3447	157	165	248	244	60	60	0	2	3448	244	248	334	325	60	60	0	2
3449	325	334	419	409	60	60	0	2	3450	409	419	511	491	60	60	0	2
3451	491	511	596	579	60	60	0	2	3452	579	596	681	665	60	60	0	2
3453	665	681	766	753	60	60	0	2	3454	753	766	851	839	60	60	0	2
3455	839	851	936	924	60	60	0	2	3456	924	936	1021	1008	60	60	0	2
3457	1008	1021	1106	1095	60	60	0	2	3458	1095	1106	1191	1181	60	60	0	2
3459	1181	1191	1276	1264	60	60	0	2	3460	1264	1276	1361	1347	60	60	0	2
3461	1347	1361	1446	1431	60	60	0	2	3462	1431	1446	1529	1513	60	60	0	2
3463	1513	1529	1612	1600	60	60	0	2	3464	1600	1612	1694	1687	60	60	0	2
3465	1687	1694	1781	1772	60	60	0	2	3466	1772	1781	1869	1860	60	60	0	2
3467	1860	1869	1949	1948	60	60	0	2	3468	79	80	158	165	60	60	0	2

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
3469	165	158	237	248	60	60	0	2	3470	248	237	321	334	60	60	0	2
3471	334	321	407	419	60	60	0	2	3472	419	407	496	511	60	60	0	2
3473	511	496	582	596	60	60	0	2	3474	596	582	669	681	60	60	0	2
3475	681	669	750	766	60	60	0	2	3476	766	750	835	851	60	60	0	2
3477	851	835	920	936	60	60	0	2	3478	936	920	1004	1021	60	60	0	2
3479	1021	1004	1086	1106	60	60	0	2	3480	1106	1086	1173	1191	60	60	0	2
3481	1191	1173	1258	1276	60	60	0	2	3482	1276	1258	1342	1361	60	60	0	2
3483	1361	1342	1426	1446	60	60	0	2	3484	1446	1426	1518	1529	60	60	0	2
3485	1529	1518	1605	1612	60	60	0	2	3486	1612	1605	1688	1694	60	60	0	2
3487	1694	1688	1773	1781	60	60	0	2	3488	1781	1773	1861	1869	60	60	0	2
3489	1869	1861	1950	1949	60	60	0	2	3490	80	81	146	158	60	60	0	2
3491	158	146	225	237	60	60	0	2	3492	237	225	308	321	60	60	0	2
3493	321	308	393	407	60	60	0	2	3494	407	393	481	496	60	60	0	2
3495	496	481	568	582	60	60	0	2	3496	582	568	653	669	60	60	0	2
3497	669	653	736	750	60	60	0	2	3498	750	736	820	835	60	60	0	2
3499	835	820	905	920	60	60	0	2	3500	920	905	989	1004	60	60	0	2
3501	1004	989	1073	1086	60	60	0	2	3502	1086	1073	1159	1173	60	60	0	2
3503	1173	1159	1243	1258	60	60	0	2	3504	1258	1243	1326	1342	60	60	0	2
3505	1342	1326	1411	1426	60	60	0	2	3506	1426	1411	1501	1518	60	60	0	2
3507	1518	1501	1591	1605	60	60	0	2	3508	1605	1591	1674	1688	60	60	0	2
3509	1688	1674	1761	1773	60	60	0	2	3510	1773	1761	1846	1861	60	60	0	2
3511	1861	1846	1951	1950	60	60	0	2	3512	81	82	133	146	60	60	0	2
3513	146	133	218	225	60	60	0	2	3514	225	218	295	308	60	60	0	2
3515	308	295	380	393	60	60	0	2	3516	393	380	465	481	60	60	0	2
3517	481	465	553	568	60	60	0	2	3518	568	553	639	653	60	60	0	2
3519	653	639	724	736	60	60	0	2	3520	736	724	807	820	60	60	0	2
3521	820	807	891	905	60	60	0	2	3522	905	891	976	989	60	60	0	2
3523	989	976	1060	1073	60	60	0	2	3524	1073	1060	1145	1159	60	60	0	2
3525	1159	1145	1230	1243	60	60	0	2	3526	1243	1230	1315	1326	60	60	0	2
3527	1326	1315	1399	1411	60	60	0	2	3528	1411	1399	1489	1501	60	60	0	2
3529	1501	1489	1578	1591	60	60	0	2	3530	1591	1578	1663	1674	60	60	0	2
3531	1674	1663	1748	1761	60	60	0	2	3532	1761	1748	1833	1846	60	60	0	2
3533	1846	1833	1952	1951	60	60	0	2	3534	82	83	120	133	60	60	0	2
3535	133	120	205	218	60	60	0	2	3536	218	205	288	295	60	60	0	2
3537	295	288	363	380	60	60	0	2	3538	380	363	447	465	60	60	0	2
3539	465	447	536	553	60	60	0	2	3540	553	536	626	639	60	60	0	2
3541	639	626	712	724	60	60	0	2	3542	724	712	794	807	60	60	0	2
3543	807	794	879	891	60	60	0	2	3544	891	879	963	976	60	60	0	2
3545	976	963	1047	1060	60	60	0	2	3546	1060	1047	1132	1145	60	60	0	2
3547	1145	1132	1217	1230	60	60	0	2	3548	1230	1217	1302	1315	60	60	0	2
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3555	1833	1820	1953	1952	60	60	0	2	3556	83	84	107	120	60	60	0	2
3557	120	107	180	205	60	60	0	2	3558	205	180	265	288	60	60	0	2
3559	288	265	350	363	60	60	0	2	3560	363	350	435	447	60	60	0	2
3561	447	435	520	536	60	60	0	2	3562	536	520	605	626	60	60	0	2
3563	626	605	690	712	60	60	0	2	3564	712	690	774	794	60	60	0	2
3565	794	774	865	879	60	60	0	2	3566	879	865	953	963	60	60	0	2
3567	963	953	1036	1047	60	60	0	2	3568	1047	1036	1122	1132	60	60	0	2
3569	1132	1122	1204	1217	60	60	0	2	3570	1217	1204	1285	1302	60	60	0	2
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3573	1468	1455	1540	1563	60	60	0	2	3574	1563	1540	1635	1650	60	60	0	2
3575	1650	1635	1722	1735	60	60	0	2	3576	1735	1722	1805	1820	60	60	0	2
3577	1820	1805	1954	1953	60	60	0	2	3578	84	86	89	107	60	60	0	2
3579	107	89	174	180	60	60	0	2	3580	180	174	259	265	60	60	0	2
3581	265	259	344	350	60	60	0	2	3582	350	344	429	435	60	60	0	2
3583	435	429	514	520	60	60	0	2	3584	520	514	599	605	60	60	0	2
3585	605	599	684	690	60	60	0	2	3586	690	684	769	774	60	60	0	2
3587	774	769	854	865	60	60	0	2	3588	865	854	939	953	60	60	0	2
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3599	1805	1807	1956	1954	60	60	0	2	3600	5260	5101	5114	5261	20	20	0	1
3601	5261	5114	5126	5262	20	20	0	1	3602	5262	5126	5137	5263	20	20	0	1
3603	5263	5137	5148	5264	20	20	0	1	3604	5264	5148	5158	5311	20	20	0	1
3605	5311	5158	5160	5312	20	20	0	1	3606	5312	5160	5161	5313	20	20	0	1
3607	5313	5161	5149	5314	20	20	0	1	3608	5314	5149	5139	5315	20	20	0	1
3609	5315	5139	5128	5316	20	20	0	1	3610	5316	5128	5118	5317	20	20	0	1
3611	5317	5118	5110	5318	20	20	0	1	3612	5101	5016	5031	5114	20	20	0	1
3613	5114	5031	5079	5126	20	20	0	1	3614	5126	5079	5085	5137	20	20	0	1
3615	5137	5085	5086	5148	20	20	0	1	3616	5148	5086	5067	5158	20	20	0	1
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3619	5161	5068	5057	5149	20	20	0	1	3620	5149	5057	5048	5139	20	20	0	1
3621	5139	5048	5041	5128	20	20	0	1	3622	5128	5041	5033	5118	20	20	0	1
3623	5118	5033	5025	5110	20	20	0	1	3624	5016	4931	4950	5031	20	20	0	1
3625	5031	4950	4998	5079	20	20	0	1	3626	5079	4998	5008	5085	20	20	0	1
3627	5085	5008	4985	5086	20	20	0	1	3628	5086	4985	4975	5067	20	20	0	1
3629	5067	4975	4979	5070	20	20	0	1	3630	5070	4979	4976	5068	20	20	0	1
3631	5068	4976	4968	5057	20	20	0	1	3632	5057	4968	4963	5048	20	20	0	1
3633	5048	4963	4957	5041	20	20	0	1	3634	5041	4957	4946	5033	20	20	0	1
3635	5033	4946	4940	5025	20	20	0	1	3636	4931	4846	4868	4950	20	20	0	1
3637	4950	4868	4905	4998	20	20	0	1	3638	4998	4905	4921	5008	20	20	0	1
3639	5008	4921	4912	4985	20	20	0	1	3640	4985	4912	4894	4975	20	20	0	1
3641	4975	4894	4897	4979	20	20	0	1	3642	4979	4897	4895	4976	20	20	0	1
3643	4976	4895	4886	4968	20	20	0	1	3644	4968	4886	4879	4963	20	20	0	1
3645	4963	4879	4873	4957	20	20	0	1	3646	4957	4873	4861	4946	20	20	0	1
3647	4946	4861	4847	4940	20	20	0	1	3648	4846	4761	4778	4868	20	20	0	1
3649	4868	4778	4793	4905	20	20	0	1	3650	4905	4793	4809	4921	20	20	0	1
3651	4921	4809	4818	4912	20	20	0	1	3652	4912	4818	4826	4894	20	20	0	1
3653	4894	4826	4829	4897	20	20	0	1	3654	4897	4829	4828	4895	20	20	0	1
3655	4895	4828	4819	4886	20	20	0	1	3656	4886	4819	4810	4879	20	20	0	1
3657	4879	4810	4794	4873	20	20	0	1	3658	4873	4794	4779	4861	20	20	0	1
3659	4861	4779	4762	4847	20	20	0	1	3660	4761	4682	4694	4778	20	20	0	1
3661	4778	4694	4714	4793	20	20	0	1	3662	4793	4714	4746	4809	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
3663	4809	4746	4723	4818	20	20	0	1	3664	4818	4723	4732	4826	20	20	0	1
3665	4826	4732	4734	4829	20	20	0	1	3666	4829	4734	4733	4828	20	20	0	1
3667	4828	4733	4724	4819	20	20	0	1	3668	4819	4724	4747	4810	20	20	0	1
3669	4810	4747	4715	4794	20	20	0	1	3670	4794	4715	4695	4779	20	20	0	1
3671	4779	4695	4684	4762	20	20	0	1	3672	4682	4616	4621	4694	20	20	0	1
3673	4694	4621	4623	4714	20	20	0	1	3674	4714	4623	4625	4746	20	20	0	1
3675	4746	4625	4627	4723	20	20	0	1	3676	4723	4627	4629	4732	20	20	0	1
3677	4732	4629	4631	4734	20	20	0	1	3678	4734	4631	4633	4733	20	20	0	1
3679	4733	4633	4636	4724	20	20	0	1	3680	4724	4636	4638	4747	20	20	0	1
3681	4747	4638	4640	4715	20	20	0	1	3682	4715	4640	4642	4695	20	20	0	1
3683	4695	4642	4644	4684	20	20	0	1	3684	4644	4647	4696	4684	20	20	0	1
3685	4684	4696	4780	4762	20	20	0	1	3686	4762	4780	4862	4847	20	20	0	1
3687	4847	4862	4947	4940	20	20	0	1	3688	4940	4947	5034	5025	20	20	0	1
3689	5025	5034	5119	5110	20	20	0	1	3690	5110	5119	5319	5318	20	20	0	1
3691	4647	4649	4716	4696	20	20	0	1	3692	4696	4716	4795	4780	20	20	0	1
3693	4780	4795	4874	4862	20	20	0	1	3694	4862	4874	4958	4947	20	20	0	1
3695	4947	4958	5042	5034	20	20	0	1	3696	5034	5042	5129	5119	20	20	0	1
3697	5119	5129	5320	5319	20	20	0	1	3698	4649	4652	4748	4716	20	20	0	1
3699	4716	4748	4811	4795	20	20	0	1	3700	4795	4811	4880	4874	20	20	0	1
3701	4874	4880	4964	4958	20	20	0	1	3702	4958	4964	5049	5042	20	20	0	1
3703	5042	5049	5140	5129	20	20	0	1	3704	5129	5140	5321	5320	20	20	0	1
3705	4652	4654	4728	4748	20	20	0	1	3706	4748	4728	4820	4811	20	20	0	1
3707	4811	4820	4887	4880	20	20	0	1	3708	4880	4887	4969	4964	20	20	0	1
3709	4964	4969	5058	5049	20	20	0	1	3710	5049	5058	5150	5140	20	20	0	1
3711	5140	5150	5322	5321	20	20	0	1	3712	4654	4656	4735	4728	20	20	0	1
3713	4728	4735	4830	4820	20	20	0	1	3714	4820	4830	4896	4887	20	20	0	1
3715	4887	4896	4978	4969	20	20	0	1	3716	4969	4978	5071	5058	20	20	0	1
3717	5058	5071	5163	5150	20	20	0	1	3718	5150	5163	5323	5322	20	20	0	1
3719	4656	4657	4736	4735	20	20	0	1	3720	4735	4736	4831	4830	20	20	0	1
3721	4830	4831	4910	4896	20	20	0	1	3722	4896	4910	4981	4978	20	20	0	1
3723	4978	4981	5073	5071	20	20	0	1	3724	5071	5073	5164	5163	20	20	0	1
3725	5163	5164	5324	5323	20	20	0	1	3726	4657	4658	4742	4736	20	20	0	1
3727	4736	4742	4838	4831	20	20	0	1	3728	4831	4838	4915	4910	20	20	0	1
3729	4910	4915	4987	4981	20	20	0	1	3730	4981	4987	5072	5073	20	20	0	1
3731	5073	5072	5165	5164	20	20	0	1	3732	5164	5165	5325	5324	20	20	0	1
3733	4658	4659	4753	4742	20	20	0	1	3734	4742	4753	4835	4838	20	20	0	1
3735	4838	4835	4919	4915	20	20	0	1	3736	4915	4919	4991	4987	20	20	0	1
3737	4987	4991	5059	5072	20	20	0	1	3738	5072	5059	5151	5165	20	20	0	1
3739	5165	5151	5326	5325	20	20	0	1	3740	4659	4660	4749	4753	20	20	0	1
3741	4753	4749	4812	4835	20	20	0	1	3742	4835	4812	4923	4919	20	20	0	1
3743	4919	4923	5006	4991	20	20	0	1	3744	4991	5006	5050	5059	20	20	0	1
3745	5059	5050	5141	5151	20	20	0	1	3746	5151	5141	5327	5326	20	20	0	1
3747	4660	4661	4717	4749	20	20	0	1	3748	4749	4717	4796	4812	20	20	0	1
3749	4812	4796	4904	4923	20	20	0	1	3750	4923	4904	5003	5006	20	20	0	1
3751	5006	5003	5082	5050	20	20	0	1	3752	5050	5082	5130	5141	20	20	0	1
3753	5141	5130	5328	5327	20	20	0	1	3754	4661	4662	4697	4717	20	20	0	1
3755	4717	4697	4781	4796	20	20	0	1	3756	4796	4781	4865	4904	20	20	0	1
3757	4904	4865	4952	5003	20	20	0	1	3758	5003	4952	5035	5082	20	20	0	1
3759	5082	5035	5120	5130	20	20	0	1	3760	5130	5120	5329	5328	20	20	0	1
3761	4662	4663	4686	4697	20	20	0	1	3762	4697	4686	4763	4781	20	20	0	1
3763	4781	4763	4856	4865	20	20	0	1	3764	4865	4856	4941	4952	20	20	0	1
3765	4952	4941	5026	5035	20	20	0	1	3766	5035	5026	5111	5120	20	20	0	1
3767	5120	5111	5330	5329	20	20	0	1	3768	4663	4664	4698	4686	20	20	0	1
3769	4686	4698	4782	4763	20	20	0	1	3770	4763	4782	4863	4856	20	20	0	1
3771	4856	4863	4948	4941	20	20	0	1	3772	4941	4948	5036	5026	20	20	0	1
3773	5026	5036	5121	5111	20	20	0	1	3774	5111	5121	5331	5330	20	20	0	1
3775	4664	4665	4718	4698	20	20	0	1	3776	4698	4718	4797	4782	20	20	0	1
3777	4782	4797	4875	4863	20	20	0	1	3778	4863	4875	4959	4948	20	20	0	1
3779	4948	4959	5043	5036	20	20	0	1	3780	5036	5043	5131	5121	20	20	0	1
3781	5121	5131	5332	5331	20	20	0	1	3782	4665	4666	4750	4718	20	20	0	1
3783	4718	4750	4813	4797	20	20	0	1	3784	4797	4813	4881	4875	20	20	0	1
3785	4875	4881	4965	4959	20	20	0	1	3786	4959	4965	5051	5043	20	20	0	1
3787	5043	5051	5142	5131	20	20	0	1	3788	5131	5142	5333	5332	20	20	0	1
3789	4666	4667	4731	4750	20	20	0	1	3790	4750	4731	4821	4813	20	20	0	1
3791	4813	4821	4888	4881	20	20	0	1	3792	4881	4888	4970	4965	20	20	0	1
3793	4965	4970	5060	5051	20	20	0	1	3794	5051	5060	5159	5142	20	20	0	1
3795	5142	5159	5334	5333	20	20	0	1	3796	4667	4668	4737	4731	20	20	0	1
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3799	4888	4898	4980	4970	20	20	0	1	3800	4970	4980	5074	5060	20	20	0	1
3801	5060	5074	5166	5159	20	20	0	1	3802	5159	5166	5335	5334	20	20	0	1
3803	4668	4669	4738	4737	20	20	0	1	3804	4737	4738	4833	4832	20	20	0	1
3805	4832	4833	4911	4898	20	20	0	1	3806	4898	4911	4982	4980	20	20	0	1
3807	4980	4982	5076	5074	20	20	0	1	3808	5074	5076	5167	5166	20	20	0	1
3809	5166	5167	5336	5335	20	20	0	1	3810	4669	4670	4745	4738	20	20	0	1
3811	4738	4745	4839	4833	20	20	0	1	3812	4833	4839	4916	4911	20	20	0	1
3813	4911	4916	4988	4982	20	20	0	1	3814	4982	4988	5075	5076	20	20	0	1
3815	5076	5075	5168	5167	20	20	0	1	3816	5167	5168	5337	5336	20	20	0	1
3817	4670	4671	4754	4745	20	20	0	1	3818	4745	4754	4836	4839	20	20	0	1
3819	4839	4836	4920	4916	20	20	0	1	3820	4916	4920	4992	4988	20	20	0	1
3821	4988	4992	5061	5075	20	20	0	1	3822	5075	5061	5162	5168	20	20	0	1
3823	5168	5162	5338	5337	20	20	0	1	3824	4671	4672	4751	4754	20	20	0	1
3825	4754	4751	4814	4836	20	20	0	1	3826	4836	4814	4924	4920	20	20	0	1
3827	4920	4924	5007	4992	20	20	0	1	3828	4992	5007	5052	5061	20	20	0	1
3829	5061	5052	5143	5162	20	20	0	1	3830	5162	5143	5339	5338	20	20	0	1
3831	4672	4673	4719	4751	20	20	0	1	3832	4751	4719	4798	4814	20	20	0	1
3833	4814	4798	4906	4924	20	20	0	1	3834	4924	4906	5004	5007	20	20	0	1
3835	5007	5004	5083	5052	20	20	0	1	3836	5052	5083	5132	5143	20	20	0	1
3837	5143	5132	5340	5339	20	20	0	1	3838	4673	4674	4699	4719	20	20	0	1
3839	4719	4699	4783	4798	20	20	0	1	3840	4798	4783	4866	4906	20	20	0	1
3841	4906	4866	4953	5004	20	20	0	1	3842	5004	4953	5037	5083	20	20	0	1
3843	5083	5037	5122	5132	20	20	0	1	3844	5132	5122	5341	5340	20	20	0	1
3845	4674	4677	4687	4699	20	20	0	1	3846	4699	4687	4764	4783	20	20	0	1
3847	4783	4764	4857	4866	20	20	0	1	3848	4866	4857	4942	4953	20	20	0	1
3849	4953	4942	5027	5037	20	20	0	1	3850	5037	5027	5112	5122	20	20	0	1
3851	5122	5112	5342	5341	20	20	0	1	3852	3099	3100	3315	3329	20	20	0	1
3853	3329	3315	3400	3414	20	20	0	1	3854	3414	3400	3485	3499	20	20	0	1
3855	3499	3485	3570	3584	20	20	0	1	3856	3584	3570	3655	3669	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
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3859	3100	3101	3303	3315	20	20	0	1	3860	3315	3303	3381	3400	20	20	0	1
3861	3400	3381	3466	3485	20	20	0	1	3862	3485	3466	3551	3570	20	20	0	1
3863	3570	3551	3642	3655	20	20	0	1	3864	3655	3642	3727	3740	20	20	0	1
3865	3740	3727	3766	3765	20	20	0	1	3866	3101	3102	3291	3303	20	20	0	1
3867	3303	3291	3356	3381	20	20	0	1	3868	3381	3356	3431	3466	20	20	0	1
3869	3466	3431	3530	3551	20	20	0	1	3870	3551	3530	3630	3642	20	20	0	1
3871	3642	3630	3685	3727	20	20	0	1	3872	3727	3685	3767	3766	20	20	0	1
3873	3102	3103	3279	3291	20	20	0	1	3874	3291	3279	3351	3356	20	20	0	1
3875	3356	3351	3451	3431	20	20	0	1	3876	3431	3451	3540	3530	20	20	0	1
3877	3530	3540	3618	3630	20	20	0	1	3878	3630	3618	3713	3685	20	20	0	1
3879	3685	3713	3768	3767	20	20	0	1	3880	3103	3104	3261	3279	20	20	0	1
3881	3279	3261	3376	3351	20	20	0	1	3882	3351	3376	3461	3451	20	20	0	1
3883	3451	3461	3545	3540	20	20	0	1	3884	3540	3545	3606	3618	20	20	0	1
3885	3618	3606	3701	3713	20	20	0	1	3886	3713	3701	3769	3768	20	20	0	1
3887	3104	3105	3262	3261	20	20	0	1	3888	3261	3262	3361	3376	20	20	0	1
3889	3376	3361	3446	3461	20	20	0	1	3890	3461	3446	3535	3545	20	20	0	1
3891	3545	3535	3600	3606	20	20	0	1	3892	3606	3600	3695	3701	20	20	0	1
3893	3701	3695	3770	3769	20	20	0	1	3894	3105	3106	3263	3262	20	20	0	1
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3901	3106	3107	3280	3263	20	20	0	1	3902	3263	3280	3366	3371	20	20	0	1
3903	3371	3366	3441	3456	20	20	0	1	3904	3456	3441	3515	3520	20	20	0	1
3905	3520	3515	3619	3607	20	20	0	1	3906	3607	3619	3714	3702	20	20	0	1
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3909	3280	3292	3346	3366	20	20	0	1	3910	3366	3346	3436	3441	20	20	0	1
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3913	3619	3631	3686	3714	20	20	0	1	3914	3714	3686	3773	3772	20	20	0	1
3915	3108	3109	3304	3292	20	20	0	1	3916	3292	3304	3382	3346	20	20	0	1
3917	3346	3382	3467	3436	20	20	0	1	3918	3436	3467	3552	3525	20	20	0	1
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3925	3467	3486	3571	3552	20	20	0	1	3926	3552	3571	3656	3643	20	20	0	1
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3947	3572	3553	3644	3657	20	20	0	1	3948	3657	3644	3729	3742	20	20	0	1
3949	3742	3729	3778	3777	20	20	0	1	3950	3113	3114	3293	3305	20	20	0	1
3951	3305	3293	3357	3383	20	20	0	1	3952	3383	3357	3432	3468	20	20	0	1
3953	3468	3432	3531	3553	20	20	0	1	3954	3553	3531	3632	3644	20	20	0	1
3955	3644	3632	3687	3729	20	20	0	1	3956	3729	3687	3779	3778	20	20	0	1
3957	3114	3115	3281	3293	20	20	0	1	3958	3293	3281	3352	3357	20	20	0	1
3959	3357	3352	3452	3432	20	20	0	1	3960	3432	3452	3541	3531	20	20	0	1
3961	3531	3541	3620	3632	20	20	0	1	3962	3632	3620	3715	3687	20	20	0	1
3963	3687	3715	3780	3779	20	20	0	1	3964	3115	3116	3264	3281	20	20	0	1
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3967	3452	3462	3546	3541	20	20	0	1	3968	3541	3546	3608	3620	20	20	0	1
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3971	3116	3117	3265	3264	20	20	0	1	3972	3264	3265	3362	3377	20	20	0	1
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3979	3265	3266	3372	3362	20	20	0	1	3980	3362	3372	3457	3447	20	20	0	1
3981	3447	3457	3521	3536	20	20	0	1	3982	3536	3521	3609	3601	20	20	0	1
3983	3601	3609	3704	3696	20	20	0	1	3984	3696	3704	3783	3782	20	20	0	1
3985	3118	3119	3282	3266	20	20	0	1	3986	3266	3282	3367	3372	20	20	0	1
3987	3372	3367	3442	3457	20	20	0	1	3988	3457	3442	3516	3521	20	20	0	1
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3991	3704	3716	3784	3783	20	20	0	1	3992	3119	3120	3294	3282	20	20	0	1
3993	3282	3294	3347	3367	20	20	0	1	3994	3367	3347	3437	3442	20	20	0	1
3995	3442	3437	3526	3516	20	20	0	1	3996	3516	3526	3633	3621	20	20	0	1
3997	3621	3633	3688	3716	20	20	0	1	3998	3716	3688	3785	3784	20	20	0	1
3999	3120	3121	3306	3294	20	20	0	1	4000	3294	3306	3384	3347	20	20	0	1
4001	3347	3384	3469	3437	20	20	0	1	4002	3437	3469	3554	3526	20	20	0	1
4003	3526	3554	3645	3633	20	20	0	1	4004	3633	3645	3730	3688	20	20	0	1
4005	3688	3730	3786	3785	20	20	0	1	4006	3121	3122	3318	3306	20	20	0	1
4007	3306	3318	3403	3384	20	20	0	1	4008	3384	3403	3488	3469	20	20	0	1
4009	3469	3488	3573	3554	20	20	0	1	4010	3554	3573	3658	3645	20	20	0	1
4011	3645	3658	3743	3730	20	20	0	1	4012	3730	3743	3787	3786	20	20	0	1
4013	3122	3123	3331	3318	20	20	0	1	4014	3318	3331	3416	3403	20	20	0	1
4015	3403	3416	3501	3488	20	20	0	1	4016	3488	3501	3586	3573	20	20	0	1
4017	3573	3586	3671	3658	20	20	0	1	4018	3658	3671	3754	3743	20	20	0	1
4019	3743	3754	3788	3787	20	20	0	1	4020	3123	3124	3319	3331	20	20	0	1
4021	3331	3319	3404	3416	20	20	0	1	4022	3416	3404	3489	3501	20	20	0	1
4023	3501	3489	3574	3586	20	20	0	1	4024	3586	3574	3659	3671	20	20	0	1
4025	3671	3659	3744	3754	20	20	0	1	4026	3754	3744	3789	3788	20	20	0	1
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4029	3404	3385	3470	3489	20	20	0	1	4030	3489	3470	3555	3574	20	20	0	1
4031	3574	3555	3646	3659	20	20	0	1	4032	3659	3646	3731	3744	20	20	0	1
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4037	3470	3433	3532	3555	20	20	0	1	4038	3555	3532	3634	3646	20	20	0	1
4039	3646	3634	3689	3731	20	20	0	1	4040	3731	3689	3791	3790	20	20	0	1
4041	3126	3127	3283	3295	20	20	0	1	4042	3295	3283	3353	3358	20	20	0	1
4043	3358	3353	3453	3433	20	20	0	1	4044	3433	3453	3542	3532	20	20	0	1
4045	3532	3542	3622	3634	20	20	0	1	4046	3634	3622	3717	3689	20	20	0	1
4047	3689	3717	3792	3791	20	20	0	1	4048	3127	3128	3267	3283	20	20	0	1
4049	3283	3267	3378	3353	20	20	0	1	4050	3353	3378	3463	3453	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
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4053	3622	3610	3705	3717	20	20	0	1	4054	3717	3705	3793	3792	20	20	0	1
4055	3128	3129	3268	3267	20	20	0	1	4056	3267	3268	3363	3378	20	20	0	1
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4059	3547	3537	3602	3610	20	20	0	1	4060	3610	3602	3697	3705	20	20	0	1
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4071	3373	3368	3443	3458	20	20	0	1	4072	3458	3443	3517	3522	20	20	0	1
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4075	3706	3718	3796	3795	20	20	0	1	4076	3131	3132	3296	3284	20	20	0	1
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4079	3443	3438	3527	3517	20	20	0	1	4080	3517	3527	3635	3623	20	20	0	1
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4093	3471	3490	3575	3556	20	20	0	1	4094	3556	3575	3660	3647	20	20	0	1
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4103	3745	3755	3801	3799	20	20	0	1	4104	5269	5106	5113	5270	20	20	0	1
4105	5270	5113	5123	5271	20	20	0	1	4106	5271	5123	5134	5272	20	20	0	1
4107	5272	5134	5144	5273	20	20	0	1	4108	5273	5144	5152	5274	20	20	0	1
4109	5274	5152	5153	5275	20	20	0	1	4110	5275	5153	5154	5276	20	20	0	1
4111	5276	5154	5145	5277	20	20	0	1	4112	5277	5145	5135	5278	20	20	0	1
4113	5278	5135	5124	5279	20	20	0	1	4114	5279	5124	5115	5280	20	20	0	1
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4127	5115	5029	5022	5107	20	20	0	1	4128	5021	4936	4949	5028	20	20	0	1
4129	5028	4949	4994	5080	20	20	0	1	4130	5080	4994	4995	5044	20	20	0	1
4131	5044	4995	4984	5053	20	20	0	1	4132	5053	4984	4971	5062	20	20	0	1
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4141	4949	4867	4883	4994	20	20	0	1	4142	4994	4883	4907	4995	20	20	0	1
4143	4995	4907	4909	4984	20	20	0	1	4144	4984	4909	4890	4971	20	20	0	1
4145	4971	4890	4893	4974	20	20	0	1	4146	4974	4893	4891	4972	20	20	0	1
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4171	4823	4726	4721	4816	20	20	0	1	4172	4816	4721	4741	4806	20	20	0	1
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4179	4740	4595	4596	4720	20	20	0	1	4180	4720	4596	4597	4725	20	20	0	1
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4191	4853	4864	4951	4937	20	20	0	1	4192	4937	4951	5030	5022	20	20	0	1
4193	5022	5030	5116	5107	20	20	0	1	4194	5107	5116	5282	5281	20	20	0	1
4195	4605	4606	4712	4692	20	20	0	1	4196	4692	4712	4791	4776	20	20	0	1
4197	4776	4791	4903	4864	20	20	0	1	4198	4864	4903	5002	4951	20	20	0	1
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4201	5116	5125	5283	5282	20	20	0	1	4202	4606	4607	4743	4712	20	20	0	1
4203	4712	4743	4807	4791	20	20	0	1	4204	4791	4807	4922	4903	20	20	0	1
4205	4903	4922	5005	5002	20	20	0	1	4206	5002	5005	5046	5081	20	20	0	1
4207	5081	5046	5136	5125	20	20	0	1	4208	5125	5136	5284	5283	20	20	0	1
4209	4607	4608	4752	4743	20	20	0	1	4210	4743	4752	4834	4807	20	20	0	1
4211	4807	4834	4918	4922	20	20	0	1	4212	4922	4918	4989	5005	20	20	0	1
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4221	5055	5065	5155	5146	20	20	0	1	4222	5146	5155	5286	5285	20	20	0	1
4223	4609	4610	4730	4739	20	20	0	1	4224	4739	4730	4827	4837	20	20	0	1
4225	4837	4827	4908	4914	20	20	0	1	4226	4914	4908	4977	4986	20	20	0	1
4227	4986	4977	5069	5065	20	20	0	1	4228	5065	5069	5156	5155	20	20	0	1
4229	5155	5156	5287	5286	20	20	0	1	4230	4610	4611	4729	4730	20	20	0	1
4231	4730	4729	4825	4827	20	20	0	1	4232	4827	4825	4892	4908	20	20	0	1
4233	4908	4892	4973	4977	20	20	0	1	4234	4977	4973	5066	5069	20	20	0	1
4235	5069	5066	5157	5156	20	20	0	1	4236	5156	5157	5288	5287	20	20	0	1
4237	4611	4612	4722	4729	20	20	0	1	4238	4729	4722	4817	4825	20	20	0	1
4239	4825	4817	4885	4892	20	20	0	1	4240	4892	4885	4967	4973	20	20	0	1
4241	4973	4967	5056	5066	20	20	0	1	4242	5066	5056	5147	5157	20	20	0	1
4243	5157	5147	5289	5288	20	20	0	1	4244	4612	4613	4744	4722	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
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4247	4885	4878	4962	4967	20	20	0	1	4248	4967	4962	5047	5056	20	20	0	1
4249	5056	5047	5138	5147	20	20	0	1	4250	5147	5138	5290	5289	20	20	0	1
4251	4613	4619	4713	4744	20	20	0	1	4252	4744	4713	4792	4808	20	20	0	1
4253	4808	4792	4872	4878	20	20	0	1	4254	4878	4872	4956	4962	20	20	0	1
4255	4962	4956	5040	5047	20	20	0	1	4256	5047	5040	5127	5138	20	20	0	1
4257	5138	5127	5291	5290	20	20	0	1	4258	4619	4620	4693	4713	20	20	0	1
4259	4713	4693	4777	4792	20	20	0	1	4260	4792	4777	4860	4872	20	20	0	1
4261	4872	4860	4945	4956	20	20	0	1	4262	4956	4945	5032	5040	20	20	0	1
4263	5040	5032	5117	5127	20	20	0	1	4264	5127	5117	5292	5291	20	20	0	1
4265	4620	4622	4683	4693	20	20	0	1	4266	4693	4683	4771	4777	20	20	0	1
4267	4777	4771	4854	4860	20	20	0	1	4268	4860	4854	4938	4945	20	20	0	1
4269	4945	4938	5023	5032	20	20	0	1	4270	5032	5023	5108	5117	20	20	0	1
4271	5117	5108	5293	5292	20	20	0	1	4272	4622	4624	4688	4683	20	20	0	1
4273	4624	4626	4701	4688	20	20	0	1	4274	4626	4628	4700	4701	20	20	0	1
4275	4628	4630	4702	4700	20	20	0	1	4276	4630	4632	4703	4702	20	20	0	1
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4281	4639	4641	4708	4707	20	20	0	1	4282	4641	4643	4689	4708	20	20	0	1
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4285	4688	4701	4785	4773	20	20	0	1	4286	4701	4700	4786	4785	20	20	0	1
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4293	4707	4708	4788	4804	20	20	0	1	4294	4708	4689	4784	4788	20	20	0	1
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4297	4773	4785	4870	4858	20	20	0	1	4298	4785	4786	4876	4870	20	20	0	1
4299	4786	4799	4882	4876	20	20	0	1	4300	4799	4800	4889	4882	20	20	0	1
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4303	4802	4803	4901	4900	20	20	0	1	4304	4803	4804	4913	4901	20	20	0	1
4305	4804	4788	4902	4913	20	20	0	1	4306	4788	4784	4869	4902	20	20	0	1
4307	4784	4772	4855	4869	20	20	0	1	4308	4854	4858	4943	4938	20	20	0	1
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4311	4876	4882	4993	4983	20	20	0	1	4312	4882	4889	4996	4993	20	20	0	1
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4315	4900	4901	5000	4999	20	20	0	1	4316	4901	4913	5001	5000	20	20	0	1
4317	4913	4902	4990	5001	20	20	0	1	4318	4902	4869	4954	4990	20	20	0	1
4319	4869	4855	4939	4954	20	20	0	1	4320	4938	4943	5038	5023	20	20	0	1
4321	4943	4960	5077	5038	20	20	0	1	4322	4960	4983	5084	5077	20	20	0	1
4323	4983	4993	5087	5084	20	20	0	1	4324	4993	4996	5089	5087	20	20	0	1
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4329	5001	4990	5088	5093	20	20	0	1	4330	4990	4954	5078	5088	20	20	0	1
4331	4954	4939	5024	5078	20	20	0	1	4332	5023	5038	5133	5108	20	20	0	1
4333	5038	5077	5169	5133	20	20	0	1	4334	5077	5084	5171	5169	20	20	0	1
4335	5084	5087	5172	5171	20	20	0	1	4336	5087	5089	5174	5172	20	20	0	1
4337	5089	5090	5175	5174	20	20	0	1	4338	5090	5091	5176	5175	20	20	0	1
4339	5091	5092	5177	5176	20	20	0	1	4340	5092	5093	5178	5177	20	20	0	1
4341	5093	5088	5173	5178	20	20	0	1	4342	5088	5078	5170	5173	20	20	0	1
4343	5078	5024	5109	5170	20	20	0	1	4344	5108	5133	5294	5293	20	20	0	1
4345	5133	5169	5295	5294	20	20	0	1	4346	5169	5171	5296	5295	20	20	0	1
4347	5171	5172	5297	5296	20	20	0	1	4348	5172	5174	5298	5297	20	20	0	1
4349	5174	5175	5299	5298	20	20	0	1	4350	5175	5176	5300	5299	20	20	0	1
4351	5176	5177	5301	5300	20	20	0	1	4352	5177	5178	5302	5301	20	20	0	1
4353	5178	5173	5303	5302	20	20	0	1	4354	5173	5170	5304	5303	20	20	0	1
4355	5170	5109	5305	5304	20	20	0	1	4356	4646	4648	4709	4685	20	20	0	1
4357	4685	4709	4787	4772	20	20	0	1	4358	4772	4787	4917	4855	20	20	0	1
4359	4855	4917	5009	4939	20	20	0	1	4360	4939	5009	5094	5024	20	20	0	1
4361	5024	5094	5179	5109	20	20	0	1	4362	5109	5179	5306	5305	20	20	0	1
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4365	4787	4840	4925	4917	20	20	0	1	4366	4917	4925	5010	5009	20	20	0	1
4367	5009	5010	5095	5094	20	20	0	1	4368	5094	5095	5180	5179	20	20	0	1
4369	5179	5180	5307	5306	20	20	0	1	4370	4650	4651	4756	4755	20	20	0	1
4371	4755	4756	4841	4840	20	20	0	1	4372	4840	4841	4926	4925	20	20	0	1
4373	4925	4926	5011	5010	20	20	0	1	4374	5010	5011	5096	5095	20	20	0	1
4375	5095	5096	5181	5180	20	20	0	1	4376	5180	5181	5308	5307	20	20	0	1
4377	4651	4653	4757	4756	20	20	0	1	4378	4756	4757	4842	4841	20	20	0	1
4379	4841	4842	4927	4926	20	20	0	1	4380	4926	4927	5012	5011	20	20	0	1
4381	5011	5012	5097	5096	20	20	0	1	4382	5096	5097	5182	5181	20	20	0	1
4383	5181	5182	5309	5308	20	20	0	1	4384	4653	4655	4758	4757	20	20	0	1
4385	4757	4758	4843	4842	20	20	0	1	4386	4842	4843	4928	4927	20	20	0	1
4387	4927	4928	5013	5012	20	20	0	1	4388	5012	5013	5098	5097	20	20	0	1
4389	5097	5098	5183	5182	20	20	0	1	4390	5182	5183	5310	5309	20	20	0	1
4391	3140	3141	3321	3337	20	20	0	1	4392	3337	3321	3406	3422	20	20	0	1
4393	3422	3406	3491	3507	20	20	0	1	4394	3507	3491	3576	3592	20	20	0	1
4395	3592	3576	3661	3677	20	20	0	1	4396	3677	3661	3746	3756	20	20	0	1
4397	3756	3746	3810	3807	20	20	0	1	4398	3141	3142	3309	3321	20	20	0	1
4399	3321	3309	3387	3406	20	20	0	1	4400	3406	3387	3472	3491	20	20	0	1
4401	3491	3472	3557	3576	20	20	0	1	4402	3576	3557	3648	3661	20	20	0	1
4403	3661	3648	3733	3746	20	20	0	1	4404	3746	3733	3811	3810	20	20	0	1
4405	3142	3143	3297	3309	20	20	0	1	4406	3309	3297	3359	3387	20	20	0	1
4407	3387	3359	3434	3472	20	20	0	1	4408	3472	3434	3533	3557	20	20	0	1
4409	3557	3533	3636	3648	20	20	0	1	4410	3648	3636	3691	3733	20	20	0	1
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4415	3434	3454	3543	3533	20	20	0	1	4416	3533	3543	3624	3636	20	20	0	1
4417	3636	3624	3719	3691	20	20	0	1	4418	3691	3719	3813	3812	20	20	0	1
4419	3144	3145	3270	3285	20	20	0	1	4420	3285	3270	3379	3354	20	20	0	1
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4423	3543	3548	3612	3624	20	20	0	1	4424	3624	3612	3707	3719	20	20	0	1
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4427	3270	3271	3364	3379	20	20	0	1	4428	3379	3364	3449	3464	20	20	0	1
4429	3464	3449	3538	3548	20	20	0	1	4430	3548	3538	3603	3612	20	20	0	1
4431	3612	3603	3698	3707	20	20	0	1	4432	3707	3698	3815	3814	20	20	0	1
4433	3146	3147	3272	3271	20	20	0	1	4434	3271	3272	3374	3364	20	20	0	1
4435	3364	3374	3459	3449	20	20	0	1	4436	3449	3459	3523	3538	20	20	0	1
4437	3538	3523	3613	3603	20	20	0	1	4438	3603	3613	3708	3698	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
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4439	3698	3708	3816	3815	20	20	0	1	4440	3147	3148	3286	3272	20	20	0	1
4441	3272	3286	3369	3374	20	20	0	1	4442	3374	3369	3444	3459	20	20	0	1
4443	3459	3444	3518	3523	20	20	0	1	4444	3523	3518	3625	3613	20	20	0	1
4445	3613	3625	3720	3708	20	20	0	1	4446	3708	3720	3817	3816	20	20	0	1
4447	3148	3149	3298	3286	20	20	0	1	4448	3286	3298	3349	3369	20	20	0	1
4449	3369	3349	3439	3444	20	20	0	1	4450	3444	3439	3528	3518	20	20	0	1
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4629	3174	3175	3326	3314	20	20	0	1	4630	3314	3326	3411	3399	20	20	0	1
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In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
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4789	6367	6355	6435	6447	20	20	0	1	4790	6447	6435	6518	6530	20	20	0	1
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4793	6355	6343	6423	6435	20	20	0	1	4794	6435	6423	6506	6518	20	20	0	1
4795	6518	6506	6572	6571	20	20	0	1	4796	6251	6252	6331	6343	20	20	0	1
4797	6343	6331	6411	6423	20	20	0	1	4798	6423	6411	6494	6506	20	20	0	1
4799	6506	6494	6573	6572	20	20	0	1	4800	6252	6253	6319	6331	20	20	0	1
4801	6331	6319	6399	6411	20	20	0	1	4802	6411	6399	6479	6494	20	20	0	1
4803	6494	6479	6574	6573	20	20	0	1	4804	6253	6254	6310	6319	20	20	0	1
4805	6319	6310	6390	6399	20	20	0	1	4806	6399	6390	6470	6479	20	20	0	1
4807	6479	6470	6575	6574	20	20	0	1	4808	6254	6255	6320	6310	20	20	0	1
4809	6310	6320	6400	6390	20	20	0	1	4810	6390	6400	6480	6470	20	20	0	1
4811	6470	6480	6576	6575	20	20	0	1	4812	6255	6256	6332	6320	20	20	0	1
4813	6320	6332	6412	6400	20	20	0	1	4814	6400	6412	6495	6480	20	20	0	1
4815	6480	6495	6577	6576	20	20	0	1	4816	6256	6257	6344	6332	20	20	0	1
4817	6332	6344	6424	6412	20	20	0	1	4818	6412	6424	6507	6495	20	20	0	1
4819	6495	6507	6578	6577	20	20	0	1	4820	6257	6258	6356	6344	20	20	0	1
4821	6344	6356	6436	6424	20	20	0	1	4822	6424	6436	6519	6507	20	20	0	1
4823	6507	6519	6579	6578	20	20	0	1	4824	6258	6259	6368	6356	20	20	0	1
4825	6356	6368	6448	6436	20	20	0	1	4826	6436	6448	6531	6519	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
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4827	6519	6531	6580	6579	20	20	0	1	4828	6259	6260	6378	6368	20	20	0	1
4829	6368	6378	6458	6448	20	20	0	1	4830	6448	6458	6541	6531	20	20	0	1
4831	6531	6541	6581	6580	20	20	0	1	4832	6260	6261	6369	6378	20	20	0	1
4833	6378	6369	6449	6458	20	20	0	1	4834	6458	6449	6532	6541	20	20	0	1
4835	6541	6532	6582	6581	20	20	0	1	4836	6261	6262	6357	6369	20	20	0	1
4837	6369	6357	6437	6449	20	20	0	1	4838	6449	6437	6520	6532	20	20	0	1
4839	6532	6520	6583	6582	20	20	0	1	4840	6262	6263	6345	6357	20	20	0	1
4841	6357	6345	6425	6437	20	20	0	1	4842	6437	6425	6508	6520	20	20	0	1
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4845	6345	6333	6413	6425	20	20	0	1	4846	6425	6413	6496	6508	20	20	0	1
4847	6508	6496	6585	6584	20	20	0	1	4848	6264	6265	6321	6333	20	20	0	1
4849	6333	6321	6401	6413	20	20	0	1	4850	6413	6401	6481	6496	20	20	0	1
4851	6496	6481	6586	6585	20	20	0	1	4852	6265	6266	6311	6321	20	20	0	1
4853	6321	6311	6391	6401	20	20	0	1	4854	6401	6391	6471	6481	20	20	0	1
4855	6481	6471	6587	6586	20	20	0	1	4856	6266	6267	6383	6311	20	20	0	1
4857	6311	6383	6463	6391	20	20	0	1	4858	6391	6463	6489	6471	20	20	0	1
4859	6471	6489	6549	6587	20	20	0	1	4860	6587	6549	6703	6664	20	20	0	1
4861	6664	6703	6783	6744	20	20	0	1	4862	6744	6783	6863	6824	20	20	0	1
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4867	7150	7112	7192	7230	20	20	0	1	4868	7230	7192	7346	7307	20	20	0	1
4869	7307	7346	7406	7423	20	20	0	1	4870	7423	7406	7432	7503	20	20	0	1
4871	7503	7432	7512	7583	20	20	0	1	4872	7583	7512	7627	7626	20	20	0	1
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4875	6463	6466	6546	6489	20	20	0	1	4876	6489	6546	6626	6549	20	20	0	1
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4881	6943	6946	6949	6952	20	20	0	1	4882	6952	6949	7029	7032	20	20	0	1
4883	7032	7029	7109	7112	20	20	0	1	4884	7112	7109	7189	7192	20	20	0	1
4885	7192	7189	7269	7346	20	20	0	1	4886	7346	7269	7349	7406	20	20	0	1
4887	7406	7349	7429	7432	20	20	0	1	4888	7432	7429	7509	7512	20	20	0	1
4889	7512	7509	7628	7627	20	20	0	1	4890	7626	7625	7573	7583	20	20	0	1
4891	7583	7573	7493	7503	20	20	0	1	4892	7503	7493	7413	7423	20	20	0	1
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4907	7537	7525	7445	7457	20	20	0	1	4908	7457	7445	7362	7374	20	20	0	1
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4911	7525	7516	7436	7445	20	20	0	1	4912	7445	7436	7353	7362	20	20	0	1
4913	7362	7353	7301	7302	20	20	0	1	4914	7620	7619	7524	7516	20	20	0	1
4915	7516	7524	7444	7436	20	20	0	1	4916	7436	7444	7361	7353	20	20	0	1
4917	7353	7361	7300	7301	20	20	0	1	4918	7619	7618	7536	7524	20	20	0	1
4919	7524	7536	7456	7444	20	20	0	1	4920	7444	7456	7373	7361	20	20	0	1
4921	7361	7373	7299	7300	20	20	0	1	4922	7618	7617	7548	7536	20	20	0	1
4923	7536	7548	7468	7456	20	20	0	1	4924	7456	7468	7385	7373	20	20	0	1
4925	7373	7385	7298	7299	20	20	0	1	4926	7617	7616	7560	7548	20	20	0	1
4927	7548	7560	7480	7468	20	20	0	1	4928	7468	7480	7397	7385	20	20	0	1
4929	7385	7397	7297	7298	20	20	0	1	4930	7616	7615	7572	7560	20	20	0	1
4931	7560	7572	7492	7480	20	20	0	1	4932	7480	7492	7412	7397	20	20	0	1
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4935	7572	7582	7502	7492	20	20	0	1	4936	7492	7502	7422	7412	20	20	0	1
4937	7412	7422	7295	7296	20	20	0	1	4938	7614	7613	7571	7582	20	20	0	1
4939	7582	7571	7491	7502	20	20	0	1	4940	7502	7491	7411	7422	20	20	0	1
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4949	7396	7384	7292	7293	20	20	0	1	4950	7611	7610	7535	7547	20	20	0	1
4951	7547	7535	7455	7467	20	20	0	1	4952	7467	7455	7372	7384	20	20	0	1
4953	7384	7372	7291	7292	20	20	0	1	4954	7610	7609	7523	7535	20	20	0	1
4955	7535	7523	7443	7455	20	20	0	1	4956	7455	7443	7360	7372	20	20	0	1
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4963	7515	7522	7442	7435	20	20	0	1	4964	7435	7442	7359	7352	20	20	0	1
4965	7352	7359	7288	7289	20	20	0	1	4966	7607	7606	7534	7522	20	20	0	1
4967	7522	7534	7454	7442	20	20	0	1	4968	7442	7454	7371	7359	20	20	0	1
4969	7359	7371	7287	7288	20	20	0	1	4970	7606	7605	7546	7534	20	20	0	1
4971	7534	7546	7466	7454	20	20	0	1	4972	7454	7466	7383	7371	20	20	0	1
4973	7371	7383	7286	7287	20	20	0	1	4974	7605	7604	7558	7546	20	20	0	1
4975	7546	7558	7478	7466	20	20	0	1	4976	7466	7478	7395	7383	20	20	0	1
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4979	7558	7570	7490	7478	20	20	0	1	4980	7478	7490	7410	7395	20	20	0	1
4981	7395	7410	7284	7285	20	20	0	1	4982	7603	7602	7581	7570	20	20	0	1
4983	7570	7581	7501	7490	20	20	0	1	4984	7490	7501	7421	7410	20	20	0	1
4985	7410	7421	7283	7284	20	20	0	1	4986	7602	7601	7569	7581	20	20	0	1
4987	7581	7569	7489	7501	20	20	0	1	4988	7501	7489	7409	7421	20	20	0	1
4989	7421	7409	7282	7283	20	20	0	1	4990	7601	7600	7557	7569	20	20	0	1
4991	7569	7557	7477	7489	20	20	0	1	4992	7489	7477	7394	7409	20	20	0	1
4993	7409	7394	7281	7282	20	20	0	1	4994	7600	7599	7545	7557	20	20	0	1
4995	7557	7545	7465	7477	20	20	0	1	4996	7477	7465	7382	7394	20	20	0	1
4997	7394	7382	7280	7281	20	20	0	1	4998	7599	7598	7533	7545	20	20	0	1
4999	7545	7533	7453	7465	20	20	0	1	5000	7465	7453	7370	7382	20	20	0	1
5001	7382	7370	7279	7280	20	20	0	1	5002	7598	7597	7521	7533	20	20	0	1
5003	7533	7521	7441	7453	20	20	0	1	5004	7453	7441	7358	7370	20	20	0	1
5005	7370	7358	7278	7279	20	20	0	1	5006	7597	7596	7514	7521	20	20	0	1
5007	7521	7514	7434	7441	20	20	0	1	5008	7441	7434	7351	7358	20	20	0	1
5009	7358	7351	7277	7278	20	20	0	1	5010	7596	7595	7520	7514	20	20	0	1
5011	7514	7520	7440	7434	20	20	0	1	5012	7434	7440	7357	7351	20	20	0	1
5013	7351	7357	7276	7277	20	20	0	1	5014	7595	7594	7532	7520	20	20	0	1
5015	7520	7532	7452	7440	20	20	0	1	5016	7440	7452	7369	7357	20	20	0	1
5017	7357	7369	7275	7276	20	20	0	1	5018	7594	7593	7544	7532	20	20	0	1
5019	7532	7544	7464	7452	20	20	0	1	5020	7452	7464	7381	7369	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
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5023	7544	7556	7476	7464	20	20	0	1	5024	7464	7476	7393	7381	20	20	0	1
5025	7381	7393	7273	7274	20	20	0	1	5026	7592	7591	7568	7556	20	20	0	1
5027	7556	7568	7488	7476	20	20	0	1	5028	7476	7488	7408	7393	20	20	0	1
5029	7393	7408	7272	7273	20	20	0	1	5030	7591	7590	7580	7568	20	20	0	1
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5057	6639	6640	6720	6719	20	20	0	1	5058	6708	6709	6789	6788	20	20	0	1
5059	6709	6710	6790	6789	20	20	0	1	5060	6710	6711	6791	6790	20	20	0	1
5061	6711	6712	6792	6791	20	20	0	1	5062	6712	6713	6793	6792	20	20	0	1
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5079	6797	6798	6878	6877	20	20	0	1	5080	6798	6799	6879	6878	20	20	0	1
5081	6799	6800	6880	6879	20	20	0	1	5082	6868	6869	6955	6954	20	20	0	1
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5105	6965	6966	7046	7045	20	20	0	1	5106	7034	7035	7115	7114	20	20	0	1
5107	7035	7036	7116	7115	20	20	0	1	5108	7036	7037	7117	7116	20	20	0	1
5109	7037	7038	7118	7117	20	20	0	1	5110	7038	7039	7119	7118	20	20	0	1
5111	7039	7040	7120	7119	20	20	0	1	5112	7040	7041	7121	7120	20	20	0	1
5113	7041	7042	7122	7121	20	20	0	1	5114	7042	7043	7123	7122	20	20	0	1
5115	7043	7044	7124	7123	20	20	0	1	5116	7044	7045	7125	7124	20	20	0	1
5117	7045	7046	7126	7125	20	20	0	1	5118	7114	7115	7195	7194	20	20	0	1
5119	7115	7116	7196	7195	20	20	0	1	5120	7116	7117	7197	7196	20	20	0	1
5121	7117	7118	7198	7197	20	20	0	1	5122	7118	7119	7199	7198	20	20	0	1
5123	7119	7120	7200	7199	20	20	0	1	5124	7120	7121	7201	7200	20	20	0	1
5125	7121	7122	7202	7201	20	20	0	1	5126	7122	7123	7203	7202	20	20	0	1
5127	7123	7124	7204	7203	20	20	0	1	5128	7124	7125	7205	7204	20	20	0	1
5129	7125	7126	7206	7205	20	20	0	1	5130	7194	7195	7272	7271	20	20	0	1
5131	7195	7196	7273	7272	20	20	0	1	5132	7196	7197	7274	7273	20	20	0	1
5133	7197	7198	7275	7274	20	20	0	1	5134	7198	7199	7276	7275	20	20	0	1
5135	7199	7200	7277	7276	20	20	0	1	5136	7200	7201	7278	7277	20	20	0	1
5137	7201	7202	7279	7278	20	20	0	1	5138	7202	7203	7280	7279	20	20	0	1
5139	7203	7204	7281	7280	20	20	0	1	5140	7204	7205	7282	7281	20	20	0	1
5141	7205	7206	7283	7282	20	20	0	1	5142	6563	6564	6641	6640	20	20	0	1
5143	6564	6565	6642	6641	20	20	0	1	5144	6565	6566	6643	6642	20	20	0	1
5145	6566	6567	6644	6643	20	20	0	1	5146	6567	6568	6645	6644	20	20	0	1
5147	6568	6569	6646	6645	20	20	0	1	5148	6569	6570	6647	6646	20	20	0	1
5149	6570	6571	6648	6647	20	20	0	1	5150	6571	6572	6649	6648	20	20	0	1
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5153	6574	6575	6652	6651	20	20	0	1	5154	6640	6641	6721	6720	20	20	0	1
5155	6641	6642	6722	6721	20	20	0	1	5156	6642	6643	6723	6722	20	20	0	1
5157	6643	6644	6724	6723	20	20	0	1	5158	6644	6645	6725	6724	20	20	0	1
5159	6645	6646	6726	6725	20	20	0	1	5160	6646	6647	6727	6726	20	20	0	1
5161	6647	6648	6728	6727	20	20	0	1	5162	6648	6649	6729	6728	20	20	0	1
5163	6649	6650	6730	6729	20	20	0	1	5164	6650	6651	6731	6730	20	20	0	1
5165	6651	6652	6732	6731	20	20	0	1	5166	6720	6721	6801	6800	20	20	0	1
5167	6721	6722	6802	6801	20	20	0	1	5168	6722	6723	6803	6802	20	20	0	1
5169	6723	6724	6804	6803	20	20	0	1	5170	6724	6725	6805	6804	20	20	0	1
5171	6725	6726	6806	6805	20	20	0	1	5172	6726	6727	6807	6806	20	20	0	1
5173	6727	6728	6808	6807	20	20	0	1	5174	6728	6729	6809	6808	20	20	0	1
5175	6729	6730	6810	6809	20	20	0	1	5176	6730	6731	6811	6810	20	20	0	1
5177	6731	6732	6812	6811	20	20	0	1	5178	6800	6801	6881	6880	20	20	0	1
5179	6801	6802	6882	6881	20	20	0	1	5180	6802	6803	6883	6882	20	20	0	1
5181	6803	6804	6884	6883	20	20	0	1	5182	6804	6805	6885	6884	20	20	0	1
5183	6805	6806	6886	6885	20	20	0	1	5184	6806	6807	6887	6886	20	20	0	1
5185	6807	6808	6888	6887	20	20	0	1	5186	6808	6809	6889	6888	20	20	0	1
5187	6809	6810	6890	6889	20	20	0	1	5188	6810	6811	6891	6890	20	20	0	1
5189	6811	6812	6892	6891	20	20	0	1	5190	6880	6881	6967	6966	20	20	0	1
5191	6881	6882	6968	6967	20	20	0	1	5192	6882	6883	6969	6968	20	20	0	1
5193	6883	6884	6970	6969	20	20	0	1	5194	6884	6885	6971	6970	20	20	0	1
5195	6885	6886	6972	6971	20	20	0	1	5196	6886	6887	6973	6972	20	20	0	1
5197	6887	6888	6974	6973	20	20	0	1	5198	6888	6889	6975	6974	20	20	0	1
5199	6889	6890	6976	6975	20	20	0	1	5200	6890	6891	6977	6976	20	20	0	1
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5205	6969	6970	7050	7049	20	20	0	1	5206	6970	6971	7051	7050	20	20	0	1
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5209	6973	6974	7054	7053	20	20	0	1	5210	6974	6975	7055	7054	20	20	0	1
5211	6975	6976	7056	7055	20	20	0	1	5212	6976	6977	7057	7056	20	20	0	1
5213	6977	6978	7058	7057	20	20	0	1	5214	7046	7047	7127	7126	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
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5217	7049	7050	7130	7129	20	20	0	1	5218	7050	7051	7131	7130	20	20	0	1
5219	7051	7052	7132	7131	20	20	0	1	5220	7052	7053	7133	7132	20	20	0	1
5221	7053	7054	7134	7133	20	20	0	1	5222	7054	7055	7135	7134	20	20	0	1
5223	7055	7056	7136	7135	20	20	0	1	5224	7056	7057	7137	7136	20	20	0	1
5225	7057	7058	7138	7137	20	20	0	1	5226	7126	7127	7207	7206	20	20	0	1
5227	7127	7128	7208	7207	20	20	0	1	5228	7128	7129	7209	7208	20	20	0	1
5229	7129	7130	7210	7209	20	20	0	1	5230	7130	7131	7211	7210	20	20	0	1
5231	7131	7132	7212	7211	20	20	0	1	5232	7132	7133	7213	7212	20	20	0	1
5233	7133	7134	7214	7213	20	20	0	1	5234	7134	7135	7215	7214	20	20	0	1
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5237	7137	7138	7218	7217	20	20	0	1	5238	7206	7207	7284	7283	20	20	0	1
5239	7207	7208	7285	7284	20	20	0	1	5240	7208	7209	7286	7285	20	20	0	1
5241	7209	7210	7287	7286	20	20	0	1	5242	7210	7211	7288	7287	20	20	0	1
5243	7211	7212	7289	7288	20	20	0	1	5244	7212	7213	7290	7289	20	20	0	1
5245	7213	7214	7291	7290	20	20	0	1	5246	7214	7215	7292	7291	20	20	0	1
5247	7215	7216	7293	7292	20	20	0	1	5248	7216	7217	7294	7293	20	20	0	1
5249	7217	7218	7295	7294	20	20	0	1	5250	6575	6576	6653	6652	20	20	0	1
5251	6576	6577	6654	6653	20	20	0	1	5252	6577	6578	6655	6654	20	20	0	1
5253	6578	6579	6656	6655	20	20	0	1	5254	6579	6580	6657	6656	20	20	0	1
5255	6580	6581	6658	6657	20	20	0	1	5256	6581	6582	6659	6658	20	20	0	1
5257	6582	6583	6660	6659	20	20	0	1	5258	6583	6584	6661	6660	20	20	0	1
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5263	6653	6654	6734	6733	20	20	0	1	5264	6654	6655	6735	6734	20	20	0	1
5265	6655	6656	6736	6735	20	20	0	1	5266	6656	6657	6737	6736	20	20	0	1
5267	6657	6658	6738	6737	20	20	0	1	5268	6658	6659	6739	6738	20	20	0	1
5269	6659	6660	6740	6739	20	20	0	1	5270	6660	6661	6741	6740	20	20	0	1
5271	6661	6662	6742	6741	20	20	0	1	5272	6662	6663	6743	6742	20	20	0	1
5273	6663	6664	6744	6743	20	20	0	1	5274	6732	6733	6813	6812	20	20	0	1
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5277	6735	6736	6816	6815	20	20	0	1	5278	6736	6737	6817	6816	20	20	0	1
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5303	6897	6898	6984	6983	20	20	0	1	5304	6898	6899	6985	6984	20	20	0	1
5305	6899	6900	6986	6985	20	20	0	1	5306	6900	6901	6987	6986	20	20	0	1
5307	6901	6902	6988	6987	20	20	0	1	5308	6902	6903	6989	6988	20	20	0	1
5309	6903	6904	6990	6989	20	20	0	1	5310	6978	6979	7059	7058	20	20	0	1
5311	6979	6980	7060	7059	20	20	0	1	5312	6980	6981	7061	7060	20	20	0	1
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5319	6987	6988	7068	7067	20	20	0	1	5320	6988	6989	7069	7068	20	20	0	1
5321	6989	6990	7070	7069	20	20	0	1	5322	7058	7059	7139	7138	20	20	0	1
5323	7059	7060	7140	7139	20	20	0	1	5324	7060	7061	7141	7140	20	20	0	1
5325	7061	7062	7142	7141	20	20	0	1	5326	7062	7063	7143	7142	20	20	0	1
5327	7063	7064	7144	7143	20	20	0	1	5328	7064	7065	7145	7144	20	20	0	1
5329	7065	7066	7146	7145	20	20	0	1	5330	7066	7067	7147	7146	20	20	0	1
5331	7067	7068	7148	7147	20	20	0	1	5332	7068	7069	7149	7148	20	20	0	1
5333	7069	7070	7150	7149	20	20	0	1	5334	7138	7139	7219	7218	20	20	0	1
5335	7139	7140	7220	7219	20	20	0	1	5336	7140	7141	7221	7220	20	20	0	1
5337	7141	7142	7222	7221	20	20	0	1	5338	7142	7143	7223	7222	20	20	0	1
5339	7143	7144	7224	7223	20	20	0	1	5340	7144	7145	7225	7224	20	20	0	1
5341	7145	7146	7226	7225	20	20	0	1	5342	7146	7147	7227	7226	20	20	0	1
5343	7147	7148	7228	7227	20	20	0	1	5344	7148	7149	7229	7228	20	20	0	1
5345	7149	7150	7230	7229	20	20	0	1	5346	7218	7219	7296	7295	20	20	0	1
5347	7219	7220	7297	7296	20	20	0	1	5348	7220	7221	7298	7297	20	20	0	1
5349	7221	7222	7299	7298	20	20	0	1	5350	7222	7223	7300	7299	20	20	0	1
5351	7223	7224	7301	7300	20	20	0	1	5352	7224	7225	7302	7301	20	20	0	1
5353	7225	7226	7303	7302	20	20	0	1	5354	7226	7227	7304	7303	20	20	0	1
5355	7227	7228	7305	7304	20	20	0	1	5356	7228	7229	7306	7305	20	20	0	1
5357	7229	7230	7307	7306	20	20	0	1	5358	6269	6270	6384	6387	20	20	0	1
5359	6387	6384	6464	6467	20	20	0	1	5360	6467	6464	6490	6547	20	20	0	1
5361	6547	6490	6550	6627	20	20	0	1	5362	6627	6550	6704	6707	20	20	0	1
5363	6707	6704	6784	6787	20	20	0	1	5364	6787	6784	6864	6867	20	20	0	1
5365	6867	6864	6944	6947	20	20	0	1	5366	6947	6944	6953	6950	20	20	0	1
5367	6950	6953	7033	7030	20	20	0	1	5368	7030	7033	7113	7110	20	20	0	1
5369	7110	7113	7193	7190	20	20	0	1	5370	7190	7193	7347	7270	20	20	0	1
5371	7270	7347	7407	7350	20	20	0	1	5372	7350	7407	7433	7430	20	20	0	1
5373	7430	7433	7513	7510	20	20	0	1	5374	7510	7513	7630	7629	20	20	0	1
5375	6270	6271	6312	6384	20	20	0	1	5376	6384	6312	6392	6464	20	20	0	1
5377	6464	6392	6472	6490	20	20	0	1	5378	6490	6472	6588	6550	20	20	0	1
5379	6550	6588	6665	6704	20	20	0	1	5380	6704	6665	6745	6784	20	20	0	1
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5383	6944	6905	6991	6953	20	20	0	1	5384	6953	6991	7071	7033	20	20	0	1
5385	7033	7071	7151	7113	20	20	0	1	5386	7113	7151	7231	7193	20	20	0	1
5387	7193	7231	7308	7347	20	20	0	1	5388	7347	7308	7424	7407	20	20	0	1
5389	7407	7424	7504	7433	20	20	0	1	5390	7433	7504	7584	7513	20	20	0	1
5391	7513	7584	7631	7630	20	20	0	1	5392	6271	6272	6322	6312	20	20	0	1
5393	6312	6322	6402	6392	20	20	0	1	5394	6392	6402	6482	6472	20	20	0	1
5395	6472	6482	6589	6588	20	20	0	1	5396	6272	6273	6334	6322	20	20	0	1
5397	6322	6334	6414	6402	20	20	0	1	5398	6402	6414	6497	6482	20	20	0	1
5399	6482	6497	6590	6589	20	20	0	1	5400	6273	6274	6346	6334	20	20	0	1
5401	6334	6346	6426	6414	20	20	0	1	5402	6414	6426	6509	6497	20	20	0	1
5403	6497	6509	6591	6590	20	20	0	1	5404	6274	6275	6358	6346	20	20	0	1
5405	6346	6358	6438	6426	20	20	0	1	5406	6426	6438	6521	6509	20	20	0	1
5407	6509	6521	6592	6591	20	20	0	1	5408	6275	6276	6370	6358	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
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5409	6358	6370	6450	6438	20	20	0	1
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5413	6370	6379	6459	6450	20	20	0	1
5415	6533	6542	6594	6593	20	20	0	1
5417	6379	6371	6451	6459	20	20	0	1
5419	6542	6534	6595	6594	20	20	0	1
5421	6371	6359	6439	6451	20	20	0	1
5423	6534	6522	6596	6595	20	20	0	1
5425	6359	6347	6427	6439	20	20	0	1
5427	6522	6510	6597	6596	20	20	0	1
5429	6347	6335	6415	6427	20	20	0	1
5431	6510	6498	6598	6597	20	20	0	1
5433	6335	6323	6403	6415	20	20	0	1
5435	6498	6483	6599	6598	20	20	0	1
5437	6323	6313	6393	6403	20	20	0	1
5439	6483	6473	6600	6599	20	20	0	1
5441	6313	6324	6404	6393	20	20	0	1
5443	6473	6484	6601	6600	20	20	0	1
5445	6324	6336	6416	6404	20	20	0	1
5447	6484	6499	6602	6601	20	20	0	1
5449	6336	6348	6428	6416	20	20	0	1
5451	6499	6511	6603	6602	20	20	0	1
5453	6348	6360	6440	6428	20	20	0	1
5455	6511	6523	6604	6603	20	20	0	1
5457	6360	6372	6452	6440	20	20	0	1
5459	6523	6535	6605	6604	20	20	0	1
5461	6372	6380	6460	6452	20	20	0	1
5463	6535	6543	6606	6605	20	20	0	1
5465	6380	6373	6453	6460	20	20	0	1
5467	6543	6536	6607	6606	20	20	0	1
5469	6373	6361	6441	6453	20	20	0	1
5471	6536	6524	6608	6607	20	20	0	1
5473	6361	6349	6429	6441	20	20	0	1
5475	6524	6512	6609	6608	20	20	0	1
5477	6349	6337	6417	6429	20	20	0	1
5479	6512	6500	6610	6609	20	20	0	1
5481	6337	6325	6405	6417	20	20	0	1
5483	6500	6485	6611	6610	20	20	0	1
5485	6325	6314	6394	6405	20	20	0	1
5487	6485	6474	6612	6611	20	20	0	1
5489	6314	6326	6406	6394	20	20	0	1
5491	6474	6486	6613	6612	20	20	0	1
5493	6326	6338	6418	6406	20	20	0	1
5495	6486	6501	6614	6613	20	20	0	1
5497	6338	6350	6430	6418	20	20	0	1
5499	6501	6513	6615	6614	20	20	0	1
5501	6350	6362	6442	6430	20	20	0	1
5503	6513	6525	6616	6615	20	20	0	1
5505	6362	6374	6454	6442	20	20	0	1
5507	6525	6537	6617	6616	20	20	0	1
5509	6374	6381	6461	6454	20	20	0	1
5511	6537	6544	6618	6617	20	20	0	1
5513	6381	6375	6455	6461	20	20	0	1
5515	6544	6538	6619	6618	20	20	0	1
5517	6375	6363	6443	6455	20	20	0	1
5519	6538	6526	6620	6619	20	20	0	1
5521	6363	6351	6431	6443	20	20	0	1
5523	6526	6514	6621	6620	20	20	0	1
5525	6351	6339	6419	6431	20	20	0	1
5527	6514	6502	6622	6621	20	20	0	1
5529	6339	6327	6407	6419	20	20	0	1
5531	6502	6487	6623	6622	20	20	0	1
5533	6327	6315	6395	6407	20	20	0	1
5535	6487	6475	6624	6623	20	20	0	1
5537	6623	6700	6699	6622	20	20	0	1
5539	6621	6698	6697	6620	20	20	0	1
5541	6619	6696	6695	6618	20	20	0	1
5543	6617	6694	6693	6616	20	20	0	1
5545	6615	6692	6691	6614	20	20	0	1
5547	6613	6690	6689	6612	20	20	0	1
5549	6700	6780	6779	6699	20	20	0	1
5551	6698	6778	6777	6697	20	20	0	1
5553	6696	6776	6775	6695	20	20	0	1
5555	6694	6774	6773	6693	20	20	0	1
5557	6692	6772	6771	6691	20	20	0	1
5559	6690	6770	6769	6689	20	20	0	1
5561	6780	6860	6859	6779	20	20	0	1
5563	6778	6858	6857	6777	20	20	0	1
5565	6776	6856	6855	6775	20	20	0	1
5567	6774	6854	6853	6773	20	20	0	1
5569	6772	6852	6851	6771	20	20	0	1
5571	6770	6850	6849	6769	20	20	0	1
5573	6860	6940	6939	6859	20	20	0	1
5575	6858	6938	6937	6857	20	20	0	1
5577	6856	6936	6935	6855	20	20	0	1
5579	6854	6934	6933	6853	20	20	0	1
5581	6852	6932	6931	6851	20	20	0	1
5583	6850	6930	6929	6849	20	20	0	1
5585	6940	7026	7025	6939	20	20	0	1
5587	6938	7024	7023	6937	20	20	0	1
5589	6936	7022	7021	6935	20	20	0	1
5591	6934	7020	7019	6933	20	20	0	1
5593	6932	7018	7017	6931	20	20	0	1
5595	6930	7016	7015	6929	20	20	0	1
5597	7026	7106	7105	7025	20	20	0	1
5599	7024	7104	7103	7023	20	20	0	1
5601	7022	7102	7101	7021	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
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5410	6438	6450	6533	6521	20	20	0	1
5412	6276	6277	6379	6370	20	20	0	1
5414	6450	6459	6542	6533	20	20	0	1
5416	6277	6278	6371	6379	20	20	0	1
5418	6459	6451	6534	6542	20	20	0	1
5420	6278	6279	6359	6371	20	20	0	1
5422	6451	6439	6522	6534	20	20	0	1
5424	6279	6280	6347	6359	20	20	0	1
5426	6439	6427	6510	6522	20	20	0	1
5428	6280	6281	6335	6347	20	20	0	1
5430	6427	6415	6498	6510	20	20	0	1
5432	6281	6282	6323	6335	20	20	0	1
5434	6415	6403	6483	6498	20	20	0	1
5436	6282	6283	6313	6323	20	20	0	1
5438	6403	6393	6473	6483	20	20	0	1
5440	6283	6284	6324	6313	20	20	0	1
5442	6393	6404	6484	6473	20	20	0	1
5444	6284	6285	6336	6324	20	20	0	1
5446	6404	6416	6499	6484	20	20	0	1
5448	6285	6286	6348	6336	20	20	0	1
5450	6416	6428	6511	6499	20	20	0	1
5452	6286	6287	6360	6348	20	20	0	1
5454	6428	6440	6523	6511	20	20	0	1
5456	6287	6288	6372	6360	20	20	0	1
5458	6440	6452	6535	6523	20	20	0	1
5460	6288	6289	6380	6372	20	20	0	1
5462	6452	6460	6543	6535	20	20	0	1
5464	6289	6290	6373	6380	20	20	0	1
5466	6460	6453	6536	6543	20	20	0	1
5468	6290	6291	6361	6373	20	20	0	1
5470	6453	6441	6524	6536	20	20	0	1
5472	6291	6292	6349	6361	20	20	0	1
5474	6441	6429	6512	6524	20	20	0	1
5476	6292	6293	6337	6349	20	20	0	1
5478	6429	6417	6500	6512	20	20	0	1
5480	6293	6294	6325	6337	20	20	0	1
5482	6417	6405	6485	6500	20	20	0	1
5484	6294	6295	6314	6325	20	20	0	1
5486	6405	6394	6474	6485	20	20	0	1
5488	6295	6296	6326	6314	20	20	0	1
5490	6394	6406	6486	6474	20	20	0	1
5492	6296	6297	6338	6326	20	20	0	1
5494	6406	6418	6501	6486	20	20	0	1
5496	6297	6298	6350	6338	20	20	0	1
5498	6418	6430	6513	6501	20	20	0	1
5500	6298	6299	6362	6350	20	20	0	1
5502	6430	6442	6525	6513	20	20	0	1
5504	6299	6300	6374	6362	20	20	0	1
5506	6442	6454	6537	6525	20	20	0	1
5508	6300	6301	6381	6374	20	20	0	1
5510	6454	6461	6544	6537	20	20	0	1
5512	6301	6302	6375	6381	20	20	0	1
5514	6461	6455	6538	6544	20	20	0	1
5516	6302	6303	6363	6375	20	20	0	1
5518	6455	6443	6526	6538	20	20	0	1
5520	6303	6304	6351	6363	20	20	0	1
5522	6443	6431	6514	6526	20	20	0	1
5524	6304	6305	6339	6351	20	20	0	1
5526	6431	6419	6502	6514	20	20	0	1
5528	6305	6306	6327	6339	20	20	0	1
5530	6419	6407	6487	6502	20	20	0	1
5532	6306	6307	6315	6327	20	20	0	1
5534	6407	6395	6475	6487	20	20	0	1
5536	6624	6701	6700	6623	20	20	0	1
5538	6622	6699	6698	6621	20	20	0	1
5540	6620	6697	6696	6619	20	20	0	1
5542	6618	6695	6694	6617	20	20	0	1
5544	6616	6693	6692	6615	20	20	0	1
5546	6614	6691	6690	6613	20	20	0	1
5548	6701	6781	6780	6700	20	20	0	1
5550	6699	6779	6778	6698	20	20	0	1
5552	6697	6777	6776	6696	20	20	0	1
5554	6695	6775	6774	6694	20	20	0	1
5556	6693	6773	6772	6692	20	20	0	1
5558	6691	6771	6770	6690	20	20	0	1
5560	6781	6861	6860	6780	20	20	0	1
5562	6779	6859	6858	6778	20	20	0	1
5564	6777	6857	6856	6776	20	20	0	1
5566	6775	6855	6854	6774	20	20	0	1
5568	6773	6853	6852	6772	20	20	0	1
5570	6771	6851	6850	6770	20	20	0	1
5572	6861	6941	6940	6860	20	20	0	1
5574	6859	6939	6938	6858	20	20	0	1
5576	6857	6937	6936	6856	20	20	0	1
5578	6855	6935	6934	6854	20	20	0	1
5580	6853	6933	6932	6852	20	20	0	1
5582	6851	6931	6930	6850	20	20	0	1
5584	6941	7027	7026	6940	20	20	0	1
5586	6939	7025	7024	6938	20	20	0	1
5588	6937	7023	7022	6936	20	20	0	1
5590	6935	7021	7020	6934	20	20	0	1
5592	6933	7019	7018	6932	20	20	0	1
5594	6931	7017	7016	6930	20	20	0	1
5596	7027	7107	7106	7026	20	20	0	1
5598	7025	7105	7104	7024	20	20	0	1
5600	7023	7103	7102	7022	20	20	0	1
5602	7021	7101	7100	7020	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
5603	7020	7100	7099	7019	20	20	0	1	5604	7019	7099	7098	7018	20	20	0	1
5605	7018	7098	7097	7017	20	20	0	1	5606	7017	7097	7096	7016	20	20	0	1
5607	7016	7096	7095	7015	20	20	0	1	5608	7107	7187	7186	7106	20	20	0	1
5609	7106	7186	7185	7105	20	20	0	1	5610	7105	7185	7184	7104	20	20	0	1
5611	7104	7184	7183	7103	20	20	0	1	5612	7103	7183	7182	7102	20	20	0	1
5613	7102	7182	7181	7101	20	20	0	1	5614	7101	7181	7180	7100	20	20	0	1
5615	7100	7180	7179	7099	20	20	0	1	5616	7099	7179	7178	7098	20	20	0	1
5617	7098	7178	7177	7097	20	20	0	1	5618	7097	7177	7176	7096	20	20	0	1
5619	7096	7176	7175	7095	20	20	0	1	5620	7187	7267	7266	7186	20	20	0	1
5621	7186	7266	7265	7185	20	20	0	1	5622	7185	7265	7264	7184	20	20	0	1
5623	7184	7264	7263	7183	20	20	0	1	5624	7183	7263	7262	7182	20	20	0	1
5625	7182	7262	7261	7181	20	20	0	1	5626	7181	7261	7260	7180	20	20	0	1
5627	7180	7260	7259	7179	20	20	0	1	5628	7179	7259	7258	7178	20	20	0	1
5629	7178	7258	7257	7177	20	20	0	1	5630	7177	7257	7256	7176	20	20	0	1
5631	7176	7256	7255	7175	20	20	0	1	5632	7267	7344	7343	7266	20	20	0	1
5633	7266	7343	7342	7265	20	20	0	1	5634	7265	7342	7341	7264	20	20	0	1
5635	7264	7341	7340	7263	20	20	0	1	5636	7263	7340	7339	7262	20	20	0	1
5637	7262	7339	7338	7261	20	20	0	1	5638	7261	7338	7337	7260	20	20	0	1
5639	7260	7337	7336	7259	20	20	0	1	5640	7259	7336	7335	7258	20	20	0	1
5641	7258	7335	7334	7257	20	20	0	1	5642	7257	7334	7333	7256	20	20	0	1
5643	7256	7333	7332	7255	20	20	0	1	5644	7344	7427	7419	7343	20	20	0	1
5645	7343	7419	7404	7342	20	20	0	1	5646	7342	7404	7392	7341	20	20	0	1
5647	7341	7392	7380	7340	20	20	0	1	5648	7340	7380	7368	7339	20	20	0	1
5649	7339	7368	7356	7338	20	20	0	1	5650	7338	7356	7367	7337	20	20	0	1
5651	7337	7367	7379	7336	20	20	0	1	5652	7336	7379	7391	7335	20	20	0	1
5653	7335	7391	7403	7334	20	20	0	1	5654	7334	7403	7418	7333	20	20	0	1
5655	7333	7418	7426	7332	20	20	0	1	5656	7427	7507	7499	7419	20	20	0	1
5657	7419	7499	7487	7404	20	20	0	1	5658	7404	7487	7475	7392	20	20	0	1
5659	7392	7475	7463	7380	20	20	0	1	5660	7380	7463	7451	7368	20	20	0	1
5661	7368	7451	7439	7356	20	20	0	1	5662	7356	7439	7450	7367	20	20	0	1
5663	7367	7450	7462	7379	20	20	0	1	5664	7379	7462	7474	7391	20	20	0	1
5665	7391	7474	7486	7403	20	20	0	1	5666	7403	7486	7498	7418	20	20	0	1
5667	7418	7498	7506	7426	20	20	0	1	5668	7507	7587	7579	7499	20	20	0	1
5669	7499	7579	7567	7487	20	20	0	1	5670	7487	7567	7555	7475	20	20	0	1
5671	7475	7555	7543	7463	20	20	0	1	5672	7463	7543	7531	7451	20	20	0	1
5673	7451	7531	7519	7439	20	20	0	1	5674	7439	7519	7530	7450	20	20	0	1
5675	7450	7530	7542	7462	20	20	0	1	5676	7462	7542	7554	7474	20	20	0	1
5677	7474	7554	7566	7486	20	20	0	1	5678	7486	7566	7578	7498	20	20	0	1
5679	7498	7578	7586	7506	20	20	0	1	5680	7587	7667	7666	7579	20	20	0	1
5681	7579	7666	7665	7567	20	20	0	1	5682	7567	7665	7664	7555	20	20	0	1
5683	7555	7664	7663	7543	20	20	0	1	5684	7543	7663	7662	7531	20	20	0	1
5685	7531	7662	7661	7519	20	20	0	1	5686	7519	7661	7660	7530	20	20	0	1
5687	7530	7660	7659	7542	20	20	0	1	5688	7542	7659	7658	7554	20	20	0	1
5689	7554	7658	7657	7566	20	20	0	1	5690	7566	7657	7656	7578	20	20	0	1
5691	7578	7656	7655	7586	20	20	0	1	5692	7655	7654	7577	7586	20	20	0	1
5693	7586	7577	7497	7506	20	20	0	1	5694	7506	7497	7417	7426	20	20	0	1
5695	7426	7417	7331	7332	20	20	0	1	5696	7654	7653	7565	7577	20	20	0	1
5697	7577	7565	7485	7497	20	20	0	1	5698	7497	7485	7402	7417	20	20	0	1
5699	7417	7402	7330	7331	20	20	0	1	5700	7653	7652	7553	7565	20	20	0	1
5701	7565	7553	7473	7485	20	20	0	1	5702	7485	7473	7390	7402	20	20	0	1
5703	7402	7390	7329	7330	20	20	0	1	5704	7652	7651	7541	7553	20	20	0	1
5705	7553	7541	7461	7473	20	20	0	1	5706	7473	7461	7378	7390	20	20	0	1
5707	7390	7378	7328	7329	20	20	0	1	5708	7651	7650	7529	7541	20	20	0	1
5709	7541	7529	7449	7461	20	20	0	1	5710	7461	7449	7366	7378	20	20	0	1
5711	7378	7366	7327	7328	20	20	0	1	5712	7650	7649	7518	7529	20	20	0	1
5713	7529	7518	7438	7449	20	20	0	1	5714	7449	7438	7355	7366	20	20	0	1
5715	7366	7355	7326	7327	20	20	0	1	5716	7649	7648	7528	7518	20	20	0	1
5717	7518	7528	7448	7438	20	20	0	1	5718	7438	7448	7365	7355	20	20	0	1
5719	7355	7365	7325	7326	20	20	0	1	5720	7648	7647	7540	7528	20	20	0	1
5721	7528	7540	7460	7448	20	20	0	1	5722	7448	7460	7377	7365	20	20	0	1
5723	7365	7377	7324	7325	20	20	0	1	5724	7647	7646	7552	7540	20	20	0	1
5725	7540	7552	7472	7460	20	20	0	1	5726	7460	7472	7389	7377	20	20	0	1
5727	7377	7389	7323	7324	20	20	0	1	5728	7646	7645	7564	7552	20	20	0	1
5729	7552	7564	7484	7472	20	20	0	1	5730	7472	7484	7401	7389	20	20	0	1
5731	7389	7401	7322	7323	20	20	0	1	5732	7645	7644	7576	7564	20	20	0	1
5733	7564	7576	7496	7484	20	20	0	1	5734	7484	7496	7416	7401	20	20	0	1
5735	7401	7416	7321	7322	20	20	0	1	5736	7644	7643	7585	7576	20	20	0	1
5737	7576	7585	7505	7496	20	20	0	1	5738	7496	7505	7425	7416	20	20	0	1
5739	7416	7425	7320	7321	20	20	0	1	5740	7643	7642	7575	7585	20	20	0	1
5741	7585	7575	7495	7505	20	20	0	1	5742	7505	7495	7415	7425	20	20	0	1
5743	7425	7415	7319	7320	20	20	0	1	5744	7642	7641	7563	7575	20	20	0	1
5745	7575	7563	7483	7495	20	20	0	1	5746	7495	7483	7400	7415	20	20	0	1
5747	7415	7400	7318	7319	20	20	0	1	5748	7641	7640	7551	7563	20	20	0	1
5749	7563	7551	7471	7483	20	20	0	1	5750	7483	7471	7388	7400	20	20	0	1
5751	7400	7388	7317	7318	20	20	0	1	5752	7640	7639	7539	7551	20	20	0	1
5753	7551	7539	7459	7471	20	20	0	1	5754	7471	7459	7376	7388	20	20	0	1
5755	7388	7376	7316	7317	20	20	0	1	5756	7639	7638	7527	7539	20	20	0	1
5757	7539	7527	7447	7459	20	20	0	1	5758	7459	7447	7364	7376	20	20	0	1
5759	7376	7364	7315	7316	20	20	0	1	5760	7638	7637	7517	7527	20	20	0	1
5761	7527	7517	7437	7447	20	20	0	1	5762	7447	7437	7354	7364	20	20	0	1
5763	7364	7354	7314	7315	20	20	0	1	5764	7637	7636	7526	7517	20	20	0	1
5765	7517	7526	7446	7437	20	20	0	1	5766	7437	7446	7363	7354	20	20	0	1
5767	7354	7363	7313	7314	20	20	0	1	5768	7636	7635	7538	7526	20	20	0	1
5769	7526	7538	7458	7446	20	20	0	1	5770	7446	7458	7375	7363	20	20	0	1
5771	7363	7375	7312	7313	20	20	0	1	5772	7635	7634	7550	7538	20	20	0	1
5773	7538	7550	7470	7458	20	20	0	1	5774	7458	7470	7387	7375	20	20	0	1
5775	7375	7387	7311	7312	20	20	0	1	5776	7634	7633	7562	7550	20	20	0	1
5777	7550	7562	7482	7470	20	20	0	1	5778	7470	7482	7399	7387	20	20	0	1
5779	7387	7399	7310	7311	20	20	0	1	5780	7633	7632	7574	7562	20	20	0	1
5781	7562	7574	7494	7482	20	20	0	1	5782	7482	7494	7414	7399	20	20	0	1
5783	7399	7414	7309	7310	20	20	0	1	5784	7632	7631	7584	7574	20	20	0	1
5785	7574	7584	7504	7494	20	20	0	1	5786	7494	7504	7424	7414	20	20	0	1
5787	7414	7424	7308	7309	20	20	0	1	5788	6588	6589	6666	6665	20	20	0	1
5789	6589	6590	6667	6666	20	20	0	1	5790	6590	6591	6668	6667	20	20	0	1
5791	6591	6592	6669	6668	20	20	0	1	5792	6592	6593	6670	6669	20	20	0	1
5793	6593	6594	6671	6670	20	20	0	1	5794	6594	6595	6672	6671	20	20	0	1
5795	6595	6596	6673	6672	20	20	0	1	5796	6596	6597	6674	6673	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
5797	6597	6598	6675	6674	20	20	0	1	5798	6598	6599	6676	6675	20	20	0	1
5799	6599	6600	6677	6676	20	20	0	1	5800	6665	6666	6746	6745	20	20	0	1
5801	6666	6667	6747	6746	20	20	0	1	5802	6667	6668	6748	6747	20	20	0	1
5803	6668	6669	6749	6748	20	20	0	1	5804	6669	6670	6750	6749	20	20	0	1
5805	6670	6671	6751	6750	20	20	0	1	5806	6671	6672	6752	6751	20	20	0	1
5807	6672	6673	6753	6752	20	20	0	1	5808	6673	6674	6754	6753	20	20	0	1
5809	6674	6675	6755	6754	20	20	0	1	5810	6675	6676	6756	6755	20	20	0	1
5811	6676	6677	6757	6756	20	20	0	1	5812	6745	6746	6826	6825	20	20	0	1
5813	6746	6747	6827	6826	20	20	0	1	5814	6747	6748	6828	6827	20	20	0	1
5815	6748	6749	6829	6828	20	20	0	1	5816	6749	6750	6830	6829	20	20	0	1
5817	6750	6751	6831	6830	20	20	0	1	5818	6751	6752	6832	6831	20	20	0	1
5819	6752	6753	6833	6832	20	20	0	1	5820	6753	6754	6834	6833	20	20	0	1
5821	6754	6755	6835	6834	20	20	0	1	5822	6755	6756	6836	6835	20	20	0	1
5823	6756	6757	6837	6836	20	20	0	1	5824	6825	6826	6906	6905	20	20	0	1
5825	6826	6827	6907	6906	20	20	0	1	5826	6827	6828	6908	6907	20	20	0	1
5827	6828	6829	6909	6908	20	20	0	1	5828	6829	6830	6910	6909	20	20	0	1
5829	6830	6831	6911	6910	20	20	0	1	5830	6831	6832	6912	6911	20	20	0	1
5831	6832	6833	6913	6912	20	20	0	1	5832	6833	6834	6914	6913	20	20	0	1
5833	6834	6835	6915	6914	20	20	0	1	5834	6835	6836	6916	6915	20	20	0	1
5835	6836	6837	6917	6916	20	20	0	1	5836	6905	6906	6992	6991	20	20	0	1
5837	6906	6907	6993	6992	20	20	0	1	5838	6907	6908	6994	6993	20	20	0	1
5839	6908	6909	6995	6994	20	20	0	1	5840	6909	6910	6996	6995	20	20	0	1
5841	6910	6911	6997	6996	20	20	0	1	5842	6911	6912	6998	6997	20	20	0	1
5843	6912	6913	6999	6998	20	20	0	1	5844	6913	6914	7000	6999	20	20	0	1
5845	6914	6915	7001	7000	20	20	0	1	5846	6915	6916	7002	7001	20	20	0	1
5847	6916	6917	7003	7002	20	20	0	1	5848	6991	6992	7072	7071	20	20	0	1
5849	6992	6993	7073	7072	20	20	0	1	5850	6993	6994	7074	7073	20	20	0	1
5851	6994	6995	7075	7074	20	20	0	1	5852	6995	6996	7076	7075	20	20	0	1
5853	6996	6997	7077	7076	20	20	0	1	5854	6997	6998	7078	7077	20	20	0	1
5855	6998	6999	7079	7078	20	20	0	1	5856	6999	7000	7080	7079	20	20	0	1
5857	7000	7001	7081	7080	20	20	0	1	5858	7001	7002	7082	7081	20	20	0	1
5859	7002	7003	7083	7082	20	20	0	1	5860	7071	7072	7152	7151	20	20	0	1
5861	7072	7073	7153	7152	20	20	0	1	5862	7073	7074	7154	7153	20	20	0	1
5863	7074	7075	7155	7154	20	20	0	1	5864	7075	7076	7156	7155	20	20	0	1
5865	7076	7077	7157	7156	20	20	0	1	5866	7077	7078	7158	7157	20	20	0	1
5867	7078	7079	7159	7158	20	20	0	1	5868	7079	7080	7160	7159	20	20	0	1
5869	7080	7081	7161	7160	20	20	0	1	5870	7081	7082	7162	7161	20	20	0	1
5871	7082	7083	7163	7162	20	20	0	1	5872	7151	7152	7232	7231	20	20	0	1
5873	7152	7153	7233	7232	20	20	0	1	5874	7153	7154	7234	7233	20	20	0	1
5875	7154	7155	7235	7234	20	20	0	1	5876	7155	7156	7236	7235	20	20	0	1
5877	7156	7157	7237	7236	20	20	0	1	5878	7157	7158	7238	7237	20	20	0	1
5879	7158	7159	7239	7238	20	20	0	1	5880	7159	7160	7240	7239	20	20	0	1
5881	7160	7161	7241	7240	20	20	0	1	5882	7161	7162	7242	7241	20	20	0	1
5883	7162	7163	7243	7242	20	20	0	1	5884	7231	7232	7309	7308	20	20	0	1
5885	7232	7233	7310	7309	20	20	0	1	5886	7233	7234	7311	7310	20	20	0	1
5887	7234	7235	7312	7311	20	20	0	1	5888	7235	7236	7313	7312	20	20	0	1
5889	7236	7237	7314	7313	20	20	0	1	5890	7237	7238	7315	7314	20	20	0	1
5891	7238	7239	7316	7315	20	20	0	1	5892	7239	7240	7317	7316	20	20	0	1
5893	7240	7241	7318	7317	20	20	0	1	5894	7241	7242	7319	7318	20	20	0	1
5895	7242	7243	7320	7319	20	20	0	1	5896	6600	6601	6678	6677	20	20	0	1
5897	6601	6602	6679	6678	20	20	0	1	5898	6602	6603	6680	6679	20	20	0	1
5899	6603	6604	6681	6680	20	20	0	1	5900	6604	6605	6682	6681	20	20	0	1
5901	6605	6606	6683	6682	20	20	0	1	5902	6606	6607	6684	6683	20	20	0	1
5903	6607	6608	6685	6684	20	20	0	1	5904	6608	6609	6686	6685	20	20	0	1
5905	6609	6610	6687	6686	20	20	0	1	5906	6610	6611	6688	6687	20	20	0	1
5907	6611	6612	6689	6688	20	20	0	1	5908	6677	6678	6758	6757	20	20	0	1
5909	6678	6679	6759	6758	20	20	0	1	5910	6679	6680	6760	6759	20	20	0	1
5911	6680	6681	6761	6760	20	20	0	1	5912	6681	6682	6762	6761	20	20	0	1
5913	6682	6683	6763	6762	20	20	0	1	5914	6683	6684	6764	6763	20	20	0	1
5915	6684	6685	6765	6764	20	20	0	1	5916	6685	6686	6766	6765	20	20	0	1
5917	6686	6687	6767	6766	20	20	0	1	5918	6687	6688	6768	6767	20	20	0	1
5919	6688	6689	6769	6768	20	20	0	1	5920	6757	6758	6838	6837	20	20	0	1
5921	6758	6759	6839	6838	20	20	0	1	5922	6759	6760	6840	6839	20	20	0	1
5923	6760	6761	6841	6840	20	20	0	1	5924	6761	6762	6842	6841	20	20	0	1
5925	6762	6763	6843	6842	20	20	0	1	5926	6763	6764	6844	6843	20	20	0	1
5927	6764	6765	6845	6844	20	20	0	1	5928	6765	6766	6846	6845	20	20	0	1
5929	6766	6767	6847	6846	20	20	0	1	5930	6767	6768	6848	6847	20	20	0	1
5931	6768	6769	6849	6848	20	20	0	1	5932	6837	6838	6918	6917	20	20	0	1
5933	6838	6839	6919	6918	20	20	0	1	5934	6839	6840	6920	6919	20	20	0	1
5935	6840	6841	6921	6920	20	20	0	1	5936	6841	6842	6922	6921	20	20	0	1
5937	6842	6843	6923	6922	20	20	0	1	5938	6843	6844	6924	6923	20	20	0	1
5939	6844	6845	6925	6924	20	20	0	1	5940	6845	6846	6926	6925	20	20	0	1
5941	6846	6847	6927	6926	20	20	0	1	5942	6847	6848	6928	6927	20	20	0	1
5943	6848	6849	6929	6928	20	20	0	1	5944	6917	6918	7004	7003	20	20	0	1
5945	6918	6919	7005	7004	20	20	0	1	5946	6919	6920	7006	7005	20	20	0	1
5947	6920	6921	7007	7006	20	20	0	1	5948	6921	6922	7008	7007	20	20	0	1
5949	6922	6923	7009	7008	20	20	0	1	5950	6923	6924	7010	7009	20	20	0	1
5951	6924	6925	7011	7010	20	20	0	1	5952	6925	6926	7012	7011	20	20	0	1
5953	6926	6927	7013	7012	20	20	0	1	5954	6927	6928	7014	7013	20	20	0	1
5955	6928	6929	7015	7014	20	20	0	1	5956	7003	7004	7084	7083	20	20	0	1
5957	7004	7005	7085	7084	20	20	0	1	5958	7005	7006	7086	7085	20	20	0	1
5959	7006	7007	7087	7086	20	20	0	1	5960	7007	7008	7088	7087	20	20	0	1
5961	7008	7009	7089	7088	20	20	0	1	5962	7009	7010	7090	7089	20	20	0	1
5963	7010	7011	7091	7090	20	20	0	1	5964	7011	7012	7092	7091	20	20	0	1
5965	7012	7013	7093	7092	20	20	0	1	5966	7013	7014	7094	7093	20	20	0	1
5967	7014	7015	7095	7094	20	20	0	1	5968	7083	7084	7164	7163	20	20	0	1
5969	7084	7085	7165	7164	20	20	0	1	5970	7085	7086	7166	7165	20	20	0	1
5971	7086	7087	7167	7166	20	20	0	1	5972	7087	7088	7168	7167	20	20	0	1
5973	7088	7089	7169	7168	20	20	0	1	5974	7089	7090	7170	7169	20	20	0	1
5975	7090	7091	7171	7170	20	20	0	1	5976	7091	7092	7172	7171	20	20	0	1
5977	7092	7093	7173	7172	20	20	0	1	5978	7093	7094	7174	7173	20	20	0	1
5979	7094	7095	7175	7174	20	20	0	1	5980	7163	7164	7244	7243	20	20	0	1
5981	7164	7165	7245	7244	20	20	0	1	5982	7165	7166	7246	7245	20	20	0	1
5983	7166	7167	7247	7246	20	20	0	1	5984	7167	7168	7248	7247	20	20	0	1
5985	7168	7169	7249	7248	20	20	0	1	5986	7169	7170	7250	7249	20	20	0	1
5987	7170	7171	7251	7250	20	20	0	1	5988	7171	7172	7252	7251	20	20	0	1
5989	7172	7173	7253	7252	20	20	0	1	5990	7173	7174	7254	7253	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.
5991	7174	7175	7255	7254	20	20	0	1
5993	7244	7245	7322	7321	20	20	0	1
5995	7246	7247	7324	7323	20	20	0	1
5997	7248	7249	7326	7325	20	20	0	1
5999	7250	7251	7328	7327	20	20	0	1
6001	7252	7253	7330	7329	20	20	0	1
6003	7254	7255	7332	7331	20	20	0	1
6005	3910	3912	4004	4002	20	20	0	1
6007	4094	4096	4188	4186	20	20	0	1
6009	4278	4280	4372	4370	20	20	0	1
6011	4462	4464	4556	4554	20	20	0	1
6013	3847	3848	3914	3912	20	20	0	1
6015	4004	4006	4098	4096	20	20	0	1
6017	4188	4190	4282	4280	20	20	0	1
6019	4372	4374	4466	4464	20	20	0	1
6021	4556	4558	4650	4648	20	20	0	1
6023	3914	3916	4008	4006	20	20	0	1
6025	4098	4100	4192	4190	20	20	0	1
6027	4282	4284	4376	4374	20	20	0	1
6029	4466	4468	4560	4558	20	20	0	1
6031	3849	3850	3918	3916	20	20	0	1
6033	4008	4010	4102	4100	20	20	0	1
6035	4192	4193	4285	4284	20	20	0	1
6037	4376	4377	4469	4468	20	20	0	1
6039	4560	4561	4653	4651	20	20	0	1
6041	3918	3920	4011	4010	20	20	0	1
6043	4102	4103	4195	4193	20	20	0	1
6045	4285	4287	4379	4377	20	20	0	1
6047	4469	4471	4563	4561	20	20	0	1
6049	4646	4643	4551	4554	20	20	0	1
6051	4462	4459	4367	4370	20	20	0	1
6053	4278	4275	4183	4186	20	20	0	1
6055	4094	4091	3999	4002	20	20	0	1
6057	3910	3907	3844	3846	20	20	0	1
6059	4551	4549	4457	4459	20	20	0	1
6061	4367	4365	4273	4275	20	20	0	1
6063	4183	4181	4089	4091	20	20	0	1
6065	3999	3997	3905	3907	20	20	0	1
6067	4641	4639	4547	4549	20	20	0	1
6069	4457	4455	4363	4365	20	20	0	1
6071	4273	4271	4179	4181	20	20	0	1
6073	4089	4087	3995	3997	20	20	0	1
6075	3905	3904	3842	3843	20	20	0	1
6077	4547	4545	4453	4455	20	20	0	1
6079	4363	4361	4269	4271	20	20	0	1
6081	4179	4177	4085	4087	20	20	0	1
6083	3995	3993	3902	3904	20	20	0	1
6085	4637	4635	4544	4545	20	20	0	1
6087	4453	4452	4360	4361	20	20	0	1
6089	4269	4268	4176	4177	20	20	0	1
6091	4085	4084	3992	3993	20	20	0	1
6093	3902	3900	3840	3841	20	20	0	1
6095	4544	4542	4450	4452	20	20	0	1
6097	4360	4358	4266	4268	20	20	0	1
6099	4176	4174	4082	4084	20	20	0	1
6101	3992	3990	3898	3900	20	20	0	1
6103	4634	4632	4540	4542	20	20	0	1
6105	4450	4448	4356	4358	20	20	0	1
6107	4266	4264	4172	4174	20	20	0	1
6109	4082	4080	3988	3990	20	20	0	1
6111	3898	3896	3838	3839	20	20	0	1
6113	4540	4538	4446	4448	20	20	0	1
6115	4356	4354	4262	4264	20	20	0	1
6117	4172	4170	4078	4080	20	20	0	1
6119	3988	3986	3894	3896	20	20	0	1
6121	4630	4628	4536	4538	20	20	0	1
6123	4446	4444	4352	4354	20	20	0	1
6125	4262	4260	4168	4170	20	20	0	1
6127	4078	4076	3984	3986	20	20	0	1
6129	3894	3892	3836	3837	20	20	0	1
6131	4536	4534	4442	4444	20	20	0	1
6133	4352	4350	4258	4260	20	20	0	1
6135	4168	4166	4074	4076	20	20	0	1
6137	3984	3982	3890	3892	20	20	0	1
6139	4626	4624	4532	4534	20	20	0	1
6141	4442	4440	4348	4350	20	20	0	1
6143	4258	4256	4164	4166	20	20	0	1
6145	4074	4072	3980	3982	20	20	0	1
6147	3890	3889	3834	3835	20	20	0	1
6149	4532	4530	4438	4440	20	20	0	1
6151	4348	4346	4254	4256	20	20	0	1
6153	4164	4162	4070	4072	20	20	0	1
6155	3980	3978	3887	3889	20	20	0	1
6157	4622	4620	4528	4530	20	20	0	1
6159	4438	4436	4345	4346	20	20	0	1
6161	4254	4253	4161	4162	20	20	0	1
6163	4070	4069	3977	3978	20	20	0	1
6165	3887	3885	3832	3833	20	20	0	1
6167	4528	4527	4435	4436	20	20	0	1
6169	4345	4343	4251	4253	20	20	0	1
6171	4161	4159	4067	4069	20	20	0	1
6173	3977	3975	3883	3885	20	20	0	1
6175	4619	4613	4521	4527	20	20	0	1
6177	4435	4429	4337	4343	20	20	0	1
6179	4251	4245	4153	4159	20	20	0	1
6181	4067	4061	3969	3975	20	20	0	1
6183	3883	3877	3830	3831	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.
5992	7243	7244	7321	7320	20	20	0	1
5994	7245	7246	7323	7322	20	20	0	1
5996	7247	7248	7325	7324	20	20	0	1
5998	7249	7250	7327	7326	20	20	0	1
6000	7251	7252	7329	7328	20	20	0	1
6002	7253	7254	7331	7330	20	20	0	1
6004	3846	3847	3912	3910	20	20	0	1
6006	4002	4004	4096	4094	20	20	0	1
6008	4186	4188	4280	4278	20	20	0	1
6010	4370	4372	4464	4462	20	20	0	1
6012	4554	4556	4648	4646	20	20	0	1
6014	3912	3914	4006	4004	20	20	0	1
6016	4096	4098	4190	4188	20	20	0	1
6018	4280	4282	4374	4372	20	20	0	1
6020	4464	4466	4558	4556	20	20	0	1
6022	3848	3849	3916	3914	20	20	0	1
6024	4006	4008	4100	4098	20	20	0	1
6026	4190	4192	4284	4282	20	20	0	1
6028	4374	4376	4468	4466	20	20	0	1
6030	4558	4560	4651	4650	20	20	0	1
6032	3916	3918	4010	4008	20	20	0	1
6034	4100	4102	4193	4192	20	20	0	1
6036	4284	4285	4377	4376	20	20	0	1
6038	4468	4469	4561	4560	20	20	0	1
6040	3850	3851	3920	3918	20	20	0	1
6042	4010	4011	4103	4102	20	20	0	1
6044	4193	4195	4287	4285	20	20	0	1
6046	4377	4379	4471	4469	20	20	0	1
6048	4561	4563	4655	4653	20	20	0	1
6050	4554	4551	4459	4462	20	20	0	1
6052	4370	4367	4275	4278	20	20	0	1
6054	4186	4183	4091	4094	20	20	0	1
6056	4002	3999	3907	3910	20	20	0	1
6058	4643	4641	4549	4551	20	20	0	1
6060	4459	4457	4365	4367	20	20	0	1
6062	4275	4273	4181	4183	20	20	0	1
6064	4091	4089	3997	3999	20	20	0	1
6066	3907	3905	3843	3844	20	20	0	1
6068	4549	4547	4455	4457	20	20	0	1
6070	4365	4363	4271	4273	20	20	0	1
6072	4181	4179	4087	4089	20	20	0	1
6074	3997	3995	3904	3905	20	20	0	1
6076	4639	4637	4545	4547	20	20	0	1
6078	4455	4453	4361	4363	20	20	0	1
6080	4271	4269	4177	4179	20	20	0	1
6082	4087	4085	3993	3995	20	20	0	1
6084	3904	3902	3841	3842	20	20	0	1
6086	4545	4544	4452	4453	20	20	0	1
6088	4361	4360	4268	4269	20	20	0	1
6090	4177	4176	4084	4085	20	20	0	1
6092	3993	3992	3900	3902	20	20	0	1
6094	4635	4634	4542	4544	20	20	0	1
6096	4452	4450	4358	4360	20	20	0	1
6098	4268	4266	4174	4176	20	20	0	1
6100	4084	4082	3990	3992	20	20	0	1
6102	3900	3898	3839	3840	20	20	0	1
6104	4542	4540	4448	4450	20	20	0	1
6106	4358	4356	4264	4266	20	20	0	1
6108	4174	4172	4080	4082	20	20	0	1
6110	3990	3988	3896	3898	20	20	0	1
6112	4632	4630	4538	4540	20	20	0	1
6114	4448	4446	4354	4356	20	20	0	1
6116	4264	4262	4170	4172	20	20	0	1
6118	4080	4078	3986	3988	20	20	0	1
6120	3896	3894	3837	3838	20	20	0	1
6122	4538	4536	4444	4446	20	20	0	1
6124	4354	4352	4260	4262	20	20	0	1
6126	4170	4168	4076	4078	20	20	0	1
6128	3986	3984	3892	3894	20	20	0	1
6130	4628	4626	4534	4536	20	20	0	1
6132	4444	4442	4350	4352	20	20	0	1
6134	4260	4258	4166	4168	20	20	0	1
6136	4076	4074	3982	3984	20	20	0	1
6138	3892	3890	3835	3836	20	20	0	1
6140	4534	4532	4440	4442	20	20	0	1
6142	4350	4348	4256	4258	20	20	0	1
6144	4166	4164	4072	4074	20	20	0	1
6146	3982	3980	3889	3890	20	20	0	1
6148	4624	4622	4530	4532	20	20	0	1
6150	4440	4438	4346	4348	20	20	0	1
6152	4256	4254	4162	4164	20	20	0	1
6154	4072	4070	3978	3980	20	20	0	1
6156	3889	3887	3833	3834	20	20	0	1
6158	4530	4528	4436	4438	20	20	0	1
6160	4346	4345	4253	4254	20	20	0	1
6162	4162	4161	4069	4070	20	20	0	1
6164	3978	3977	3885	3887	20	20	0	1
6166	4620	4619	4527	4528	20	20	0	1
6168	4436	4435	4343	4345	20	20	0	1
6170	4253	4251	4159	4161	20	20	0	1
6172	4069	4067	3975	3977	20	20	0	1
6174	3885	3883	3831	3832	20	20	0	1
6176	4527	4521	4429	4435	20	20	0	1
6178	4343	4337	4245	4251	20	20	0	1
6180	4159	4153	4061	4067	20	20	0	1
6182	3975	3969	3877	3883	20	20	0	1
6184	4613	4612	4520	4521	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
6185	4521	4520	4428	4429	20	20	0	1	6186	4429	4428	4336	4337	20	20	0	1
6187	4337	4336	4244	4245	20	20	0	1	6188	4245	4244	4152	4153	20	20	0	1
6189	4153	4152	4060	4061	20	20	0	1	6190	4061	4060	3968	3969	20	20	0	1
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6197	4244	4243	4151	4152	20	20	0	1	6198	4152	4151	4059	4060	20	20	0	1
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6203	4519	4518	4426	4427	20	20	0	1	6204	4427	4426	4334	4335	20	20	0	1
6205	4335	4334	4242	4243	20	20	0	1	6206	4243	4242	4150	4151	20	20	0	1
6207	4151	4150	4058	4059	20	20	0	1	6208	4059	4058	3966	3967	20	20	0	1
6209	3967	3966	3874	3875	20	20	0	1	6210	3875	3874	3827	3828	20	20	0	1
6211	4610	4609	4517	4518	20	20	0	1	6212	4518	4517	4425	4426	20	20	0	1
6213	4426	4425	4333	4334	20	20	0	1	6214	4334	4333	4241	4242	20	20	0	1
6215	4242	4241	4149	4150	20	20	0	1	6216	4150	4149	4057	4058	20	20	0	1
6217	4058	4057	3965	3966	20	20	0	1	6218	3966	3965	3873	3874	20	20	0	1
6219	3874	3873	3826	3827	20	20	0	1	6220	4609	4608	4516	4517	20	20	0	1
6221	4517	4516	4424	4425	20	20	0	1	6222	4425	4424	4332	4333	20	20	0	1
6223	4333	4332	4240	4241	20	20	0	1	6224	4241	4240	4148	4149	20	20	0	1
6225	4149	4148	4056	4057	20	20	0	1	6226	4057	4056	3964	3965	20	20	0	1
6227	3965	3964	3872	3873	20	20	0	1	6228	3873	3872	3825	3826	20	20	0	1
6229	4608	4607	4515	4516	20	20	0	1	6230	4516	4515	4423	4424	20	20	0	1
6231	4424	4423	4331	4332	20	20	0	1	6232	4332	4331	4239	4240	20	20	0	1
6233	4240	4239	4147	4148	20	20	0	1	6234	4148	4147	4055	4056	20	20	0	1
6235	4056	4055	3963	3964	20	20	0	1	6236	3964	3963	3871	3872	20	20	0	1
6237	3872	3871	3824	3825	20	20	0	1	6238	4607	4606	4514	4515	20	20	0	1
6239	4515	4514	4422	4423	20	20	0	1	6240	4423	4422	4330	4331	20	20	0	1
6241	4331	4330	4238	4239	20	20	0	1	6242	4239	4238	4146	4147	20	20	0	1
6243	4147	4146	4054	4055	20	20	0	1	6244	4055	4054	3962	3963	20	20	0	1
6245	3963	3962	3870	3871	20	20	0	1	6246	3871	3870	3823	3824	20	20	0	1
6247	4606	4605	4513	4514	20	20	0	1	6248	4514	4513	4421	4422	20	20	0	1
6249	4422	4421	4329	4330	20	20	0	1	6250	4330	4329	4237	4238	20	20	0	1
6251	4238	4237	4145	4146	20	20	0	1	6252	4146	4145	4053	4054	20	20	0	1
6253	4054	4053	3961	3962	20	20	0	1	6254	3962	3961	3869	3870	20	20	0	1
6255	3870	3869	3822	3823	20	20	0	1	6256	4605	4604	4512	4513	20	20	0	1
6257	4513	4512	4420	4421	20	20	0	1	6258	4421	4420	4328	4329	20	20	0	1
6259	4329	4328	4236	4237	20	20	0	1	6260	4237	4236	4144	4145	20	20	0	1
6261	4145	4144	4052	4053	20	20	0	1	6262	4053	4052	3960	3961	20	20	0	1
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6265	4604	4603	4511	4512	20	20	0	1	6266	4512	4511	4419	4420	20	20	0	1
6267	4420	4419	4327	4328	20	20	0	1	6268	4328	4327	4235	4236	20	20	0	1
6269	4236	4235	4143	4144	20	20	0	1	6270	4144	4143	4051	4052	20	20	0	1
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6273	3868	3867	3820	3821	20	20	0	1	6274	4603	4602	4510	4511	20	20	0	1
6275	4511	4510	4418	4419	20	20	0	1	6276	4419	4418	4326	4327	20	20	0	1
6277	4327	4326	4234	4235	20	20	0	1	6278	4235	4234	4142	4143	20	20	0	1
6279	4143	4142	4050	4051	20	20	0	1	6280	4051	4050	3958	3959	20	20	0	1
6281	3959	3958	3866	3867	20	20	0	1	6282	3867	3866	3819	3820	20	20	0	1
6283	4602	4601	4509	4510	20	20	0	1	6284	4510	4509	4417	4418	20	20	0	1
6285	4418	4417	4325	4326	20	20	0	1	6286	4326	4325	4233	4234	20	20	0	1
6287	4234	4233	4141	4142	20	20	0	1	6288	4142	4141	4049	4050	20	20	0	1
6289	4050	4049	3957	3958	20	20	0	1	6290	3958	3957	3865	3866	20	20	0	1
6291	3866	3865	3818	3819	20	20	0	1	6292	4601	4600	4508	4509	20	20	0	1
6293	4509	4508	4416	4417	20	20	0	1	6294	4417	4416	4324	4325	20	20	0	1
6295	4325	4324	4232	4233	20	20	0	1	6296	4233	4232	4140	4141	20	20	0	1
6297	4141	4140	4048	4049	20	20	0	1	6298	4049	4048	3956	3957	20	20	0	1
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6301	4600	4599	4507	4508	20	20	0	1	6302	4508	4507	4415	4416	20	20	0	1
6303	4416	4415	4323	4324	20	20	0	1	6304	4324	4323	4231	4232	20	20	0	1
6305	4232	4231	4139	4140	20	20	0	1	6306	4140	4139	4047	4048	20	20	0	1
6307	4048	4047	3955	3956	20	20	0	1	6308	3956	3955	3863	3864	20	20	0	1
6309	3864	3863	3816	3817	20	20	0	1	6310	4599	4598	4506	4507	20	20	0	1
6311	4507	4506	4414	4415	20	20	0	1	6312	4415	4414	4322	4323	20	20	0	1
6313	4323	4322	4230	4231	20	20	0	1	6314	4231	4230	4138	4139	20	20	0	1
6315	4139	4138	4046	4047	20	20	0	1	6316	4047	4046	3954	3955	20	20	0	1
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6319	4598	4597	4505	4506	20	20	0	1	6320	4506	4505	4413	4414	20	20	0	1
6321	4414	4413	4321	4322	20	20	0	1	6322	4322	4321	4229	4230	20	20	0	1
6323	4230	4229	4137	4138	20	20	0	1	6324	4138	4137	4045	4046	20	20	0	1
6325	4046	4045	3953	3954	20	20	0	1	6326	3954	3953	3861	3862	20	20	0	1
6327	3862	3861	3814	3815	20	20	0	1	6328	4597	4596	4504	4505	20	20	0	1
6329	4505	4504	4412	4413	20	20	0	1	6330	4413	4412	4320	4321	20	20	0	1
6331	4321	4320	4228	4229	20	20	0	1	6332	4229	4228	4136	4137	20	20	0	1
6333	4137	4136	4044	4045	20	20	0	1	6334	4045	4044	3952	3953	20	20	0	1
6335	3953	3952	3860	3861	20	20	0	1	6336	3861	3860	3813	3814	20	20	0	1
6337	4596	4595	4503	4504	20	20	0	1	6338	4504	4503	4411	4412	20	20	0	1
6339	4412	4411	4319	4320	20	20	0	1	6340	4320	4319	4227	4228	20	20	0	1
6341	4228	4227	4135	4136	20	20	0	1	6342	4136	4135	4043	4044	20	20	0	1
6343	4044	4043	3951	3952	20	20	0	1	6344	3952	3951	3859	3860	20	20	0	1
6345	3860	3859	3812	3813	20	20	0	1	6346	4595	4594	4502	4503	20	20	0	1
6347	4503	4502	4410	4411	20	20	0	1	6348	4411	4410	4318	4319	20	20	0	1
6349	4319	4318	4226	4227	20	20	0	1	6350	4227	4226	4134	4135	20	20	0	1
6351	4135	4134	4042	4043	20	20	0	1	6352	4043	4042	3950	3951	20	20	0	1
6353	3951	3950	3858	3859	20	20	0	1	6354	3859	3858	3811	3812	20	20	0	1
6355	4594	4593	4501	4502	20	20	0	1	6356	4502	4501	4409	4410	20	20	0	1
6357	4410	4409	4317	4318	20	20	0	1	6358	4318	4317	4225	4226	20	20	0	1
6359	4226	4225	4133	4134	20	20	0	1	6360	4134	4133	4041	4042	20	20	0	1
6361	4042	4041	3949	3950	20	20	0	1	6362	3950	3949	3857	3858	20	20	0	1
6363	3858	3857	3810	3811	20	20	0	1	6364	4593	4590	4498	4501	20	20	0	1
6365	4501	4498	4406	4409	20	20	0	1	6366	4409	4406	4315	4317	20	20	0	1
6367	4317	4315	4222	4225	20	20	0	1	6368	4225	4222	4131	4133	20	20	0	1
6369	4133	4131	4039	4041	20	20	0	1	6370	4041	4039	3947	3949	20	20	0	1
6371	3949	3947	3855	3857	20	20	0	1	6372	3857	3855	3807	3810	20	20	0	1
6373	3801	3940	3938	3799	20	20	0	1	6374	3799	3938	3937	3798	20	20	0	1
6375	3798	3937	3936	3797	20	20	0	1	6376	3797	3936	3935	3796	20	20	0	1
6377	3796	3935	3934	3795	20	20	0	1	6378	3795	3934	3933	3794	20	20	0	1

In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.	In.	Nodo I	Nodo J	Nodo L	Nodo K	Sp.mem.	Sp.fless.	Tm	Mat.
								Ind.									Ind.
6379	3794	3933	3932	3793	20	20	0	1	6380	3793	3932	3931	3792	20	20	0	1
6381	3792	3931	3930	3791	20	20	0	1	6382	3791	3930	3929	3790	20	20	0	1
6383	3790	3929	3928	3789	20	20	0	1	6384	3789	3928	3927	3788	20	20	0	1
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6387	3786	3925	3924	3785	20	20	0	1	6388	3785	3924	3923	3784	20	20	0	1
6389	3784	3923	3922	3783	20	20	0	1	6390	3783	3922	3921	3782	20	20	0	1
6391	3782	3921	3919	3781	20	20	0	1	6392	3781	3919	3917	3780	20	20	0	1
6393	3780	3917	3915	3779	20	20	0	1	6394	3779	3915	3913	3778	20	20	0	1
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6399	3774	3903	3901	3773	20	20	0	1	6400	3773	3901	3899	3772	20	20	0	1
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6403	3770	3895	3893	3769	20	20	0	1	6404	3769	3893	3891	3768	20	20	0	1
6405	3768	3891	3888	3767	20	20	0	1	6406	3767	3888	3886	3766	20	20	0	1
6407	3766	3886	3884	3765	20	20	0	1	6408	3765	3884	3881	3763	20	20	0	1
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6421	3927	4019	4018	3926	20	20	0	1	6422	3926	4018	4017	3925	20	20	0	1
6423	3925	4017	4016	3924	20	20	0	1	6424	3924	4016	4015	3923	20	20	0	1
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6431	3913	4005	4003	3911	20	20	0	1	6432	3911	4003	4000	3908	20	20	0	1
6433	3908	4000	3998	3906	20	20	0	1	6434	3906	3998	3996	3903	20	20	0	1
6435	3903	3996	3994	3901	20	20	0	1	6436	3901	3994	3991	3899	20	20	0	1
6437	3899	3991	3989	3897	20	20	0	1	6438	3897	3989	3987	3895	20	20	0	1
6439	3895	3987	3985	3893	20	20	0	1	6440	3893	3985	3983	3891	20	20	0	1
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6445	4031	4123	4122	4030	20	20	0	1	6446	4030	4122	4121	4029	20	20	0	1
6447	4029	4121	4120	4028	20	20	0	1	6448	4028	4120	4119	4027	20	20	0	1
6449	4027	4119	4118	4026	20	20	0	1	6450	4026	4118	4117	4025	20	20	0	1
6451	4025	4117	4116	4024	20	20	0	1	6452	4024	4116	4115	4023	20	20	0	1
6453	4023	4115	4114	4022	20	20	0	1	6454	4022	4114	4113	4021	20	20	0	1
6455	4021	4113	4112	4020	20	20	0	1	6456	4020	4112	4111	4019	20	20	0	1
6457	4019	4111	4110	4018	20	20	0	1	6458	4018	4110	4109	4017	20	20	0	1
6459	4017	4109	4108	4016	20	20	0	1	6460	4016	4108	4107	4015	20	20	0	1
6461	4015	4107	4106	4014	20	20	0	1	6462	4014	4106	4105	4013	20	20	0	1
6463	4013	4105	4104	4012	20	20	0	1	6464	4012	4104	4101	4009	20	20	0	1
6465	4009	4101	4099	4007	20	20	0	1	6466	4007	4099	4097	4005	20	20	0	1
6467	4005	4097	4095	4003	20	20	0	1	6468	4003	4095	4092	4000	20	20	0	1
6469	4000	4092	4090	3998	20	20	0	1	6470	3998	4090	4088	3996	20	20	0	1
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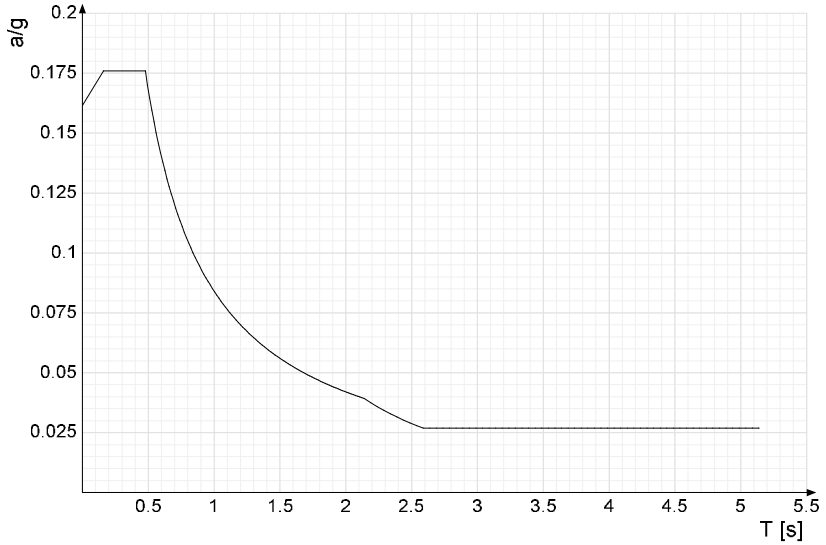
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6793	258	343	2058	2057	25	25	0	2	6794	2057	2058	2177	2176	25	25	0	2
6795	2176	2177	2296	2295	25	25	0	2	6796	2295	2296	2415	2414	25	25	0	2
6797	343	428	2059	2058	25	25	0	2	6798	2058	2059	2178	2177	25	25	0	2
6799	2177	2178	2297	2296	25	25	0	2	6800	2296	2297	2416	2415	25	25	0	2
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6803	2178	2179	2298	2297	25	25	0	2	6804	2297	2298	2417	2416	25	25	0	2
6805	513	598	2061	2060	25	25	0	2	6806	2060	2061	2180	2179	25	25	0	2
6807	2179	2180	2299	2298	25	25	0	2	6808	2298	2299	2418	2417	25	25	0	2
6809	598	683	2062	2061	25	25	0	2	6810	2061	2062	2181	2180	25	25	0	2
6811	2180	2181	2300	2299	25	25	0	2	6812	2299	2300	2419	2418	25	25	0	2
6813	683	768	2063	2062	25	25	0	2	6814	2062	2063	2182	2181	25	25	0	2
6815	2181	2182	2301	2300	25	25	0	2	6816	2300	2301	2420	2419	25	25	0	2
6817	768	853	2064	2063	25	25	0	2	6818	2063	2064	2183	2182	25	25	0	2
6819	2182	2183	2302	2301	25	25	0	2	6820	2301	2302	2421	2420	25	25	0	2
6821	853	938	2065	2064	25	25	0	2	6822	2064	2065	2184	2183	25	25	0	2
6823	2183	2184	2303	2302	25	25	0	2	6824	2302	2303	2422	2421	25	25	0	2
6825	938	1023	2066	2065	25	25	0	2	6826	2065	2066	2185	2184	25	25	0	2
6827	2184	2185	2304	2303	25	25	0	2	6828	2303	2304	2423	2422	25	25	0	2
6829	1023	1108	2067	2066	25	25	0	2	6830	2066	2067	2186	2185	25	25	0	2
6831	2185	2186	2305	2304	25	25	0	2	6832	2304	2305	2424	2423	25	25	0	2
6833	1108	1193	2068	2067	25	25	0	2	6834	2067	2068	2187	2186	25	25	0	2
6835	2186	2187	2306	2305	25	25	0	2	6836	2305	2306	2425	2424	25	25	0	2
6837	1193	1278	2069	2068	25	25	0	2	6838	2068	2069	2188	2187	25	25	0	2
6839	2187	2188	2307	2306	25	25	0	2	6840	2306	2307	2426	2425	25	25	0	2
6841	1278	1363	2070	2069	25	25	0	2	6842	2069	2070	2189	2188	25	25	0	2
6843	2188	2189	2308	2307	25	25	0	2	6844	2307	2308	2427	2426	25	25	0	2
6845	1363	1448	2071	2070	25	25	0	2	6846	2070	2071	2190	2189	25	25	0	2
6847	2189	2190	2309	2308	25	25	0	2	6848	2308	2309	2428	2427	25	25	0	2
6849	1448	1533	2072	2071	25	25	0	2	6850	2071	2072	2191	2190	25	25	0	2
6851	2190	2191	2310	2309	25	25	0	2	6852	2309	2310	2429	2428	25	25	0	2
6853	1533	1618	2073	2072	25	25	0	2	6854	2072	2073	2192	2191	25	25	0	2
6855	2191	2192	2311	2310	25	25	0	2	6856	2310	2311	2430	2429	25	25	0	2
6857	1618	1703	2074	2073	25	25	0	2	6858	2073	2074	2193	2192	25	25	0	2
6859	2192	2193	2312	2311	25	25	0	2	6860	2311	2312	2431	2430	25	25	0	2
6861	1703	1806	2075	2074	25	25	0	2	6862	2074	2075	2194	2193	25	25	0	2
6863	2193	2194	2313	2312	25	25	0	2	6864	2312	2313	2432	2431	25	25	0	2
6865	1806	1955	2076	2075	25	25	0	2	6866	2075	2076	2195	2194	25	25	0	2
6867	2194	2195	2314	2313	25	25	0	2	6868	2313	2314	2433	2432	25	25	0	2
6869	5260	5259	5100	5101	20	20	0	1	6870	5101	5100	5015	5016	20	20	0	1
6871	5016	5015	4930	4931	20	20	0	1	6872	4931	4930	4845	4846	20	20	0	1
6873	4846	4845	4760	4761	20	20	0	1	6874	5259	5258	5099	5100	20	20	0	1
6875	5100	5099	5014	5015	20	20	0	1	6876	5015	5014	4929	4930	20	20	0	1
6877	4930	4929	4844	4845	20	20	0	1	6878	4845	4844	4759	4760	20	20	0	1
6879	4759	4614	4615	4760	20	20	0	1	6880	4760	4615	4617	4761	20	20	0	1
6881	4614	4522	4523	4615	20	20	0	1	6882	4615	4523	4524	4617	20	20	0	1
6883	4522	4430	4431	4523	20	20	0	1	6884	4523	4431	4432	4524	20	20	0	1
6885	4430	4338	4339	4431	20	20	0	1	6886	4431	4339	4341	4432	20	20	0	1
6887	4338	4246	4247	4339	20	20	0	1	6888	4339	4247	4248	4341	20	20	0	1
6889	4246	4154	4155	4247	20	20	0	1	6890	4247	4155	4157	4248	20	20	0	1
6891	4154	4062	4063	4155	20	20	0	1	6892	4155	4063	4065	4157	20	20	0	1
6893	4062	3970	3971	4063	20	20	0	1	6894	4063	3971	3972	4065	20	20	0	1
6895	3970	3878	3879	3971	20	20	0	1	6896	3971	3879	3880	3972	20	20	0	1
6897	3878	3760	3761	3879	20	20	0	1	6898	3879	3761	3762	3880	20	20	0	1
6899	3760	3667	3668	3761	20	20	0	1	6900	3761	3668	3669	3762	20	20	0	1
6901	3667	3582	3583	3668	20	20	0	1	6902	3668	3583	3584	3669	20	20	0	1
6903	3582	3497	3498	3583	20	20	0	1	6904	3583	3498	3499	3584	20	20	0	1
6905	3497	3412	3413	3498	20	20	0	1	6906	3498	3413	3414	3499	20	20	0	1
6907	3412	3327	3328	3413	20	20	0	1	6908	3413	3328	3329	3414	20	20	0	1
6909	3327	3097	3098	3328	20	20	0	1	6910	3328	3098	3099	3329	20	20	0	1

6.8 Accelerazioni spettrali

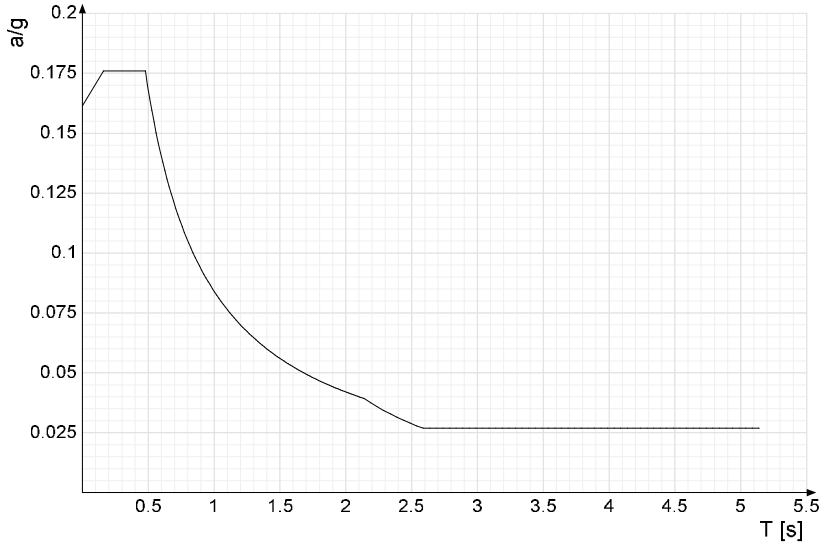
***Ind.vertice**: Indice del valore.*
***T**: Periodo di vibrazione. [s]*
***a/g**: Accelerazione spettrale normalizzata ottenuta dividendo l'accelerazione spettrale per l'accelerazione di gravità. Il valore è adimensionale.*

Sisma X SLV



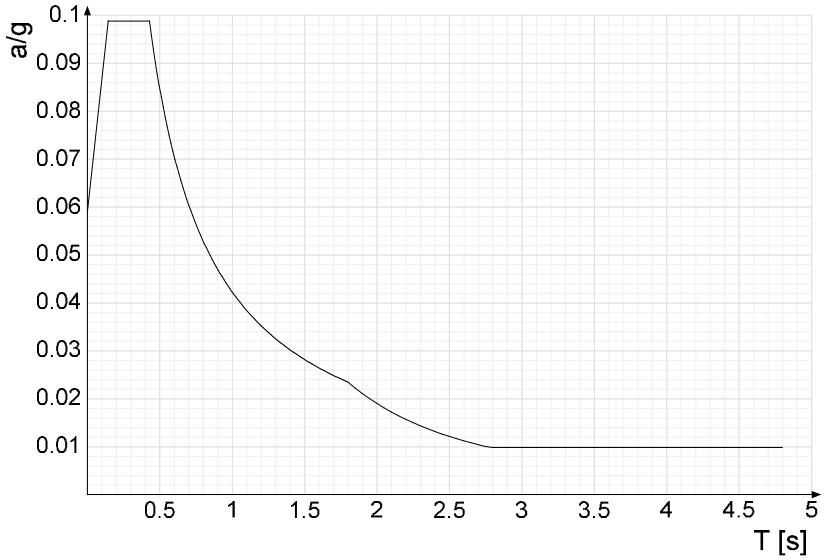
Ind.vertice	T	a/g	Ind.vertice	T	a/g	Ind.vertice	T	a/g	Ind.vertice	T	a/g
1	0	0.161	2	0.159	0.176	3	0.478	0.176	4	0.494	0.17
5	0.51	0.165	6	0.527	0.16	7	0.543	0.155	8	0.56	0.15
9	0.576	0.146	10	0.593	0.142	11	0.609	0.138	12	0.625	0.134
13	0.642	0.131	14	0.658	0.128	15	0.675	0.125	16	0.691	0.122
17	0.708	0.119	18	0.724	0.116	19	0.741	0.113	20	0.757	0.111
21	0.773	0.109	22	0.79	0.106	23	0.806	0.104	24	0.823	0.102
25	0.839	0.1	26	0.856	0.098	27	0.872	0.096	28	0.889	0.095
29	0.905	0.093	30	0.921	0.091	31	0.938	0.09	32	0.954	0.088
33	0.971	0.087	34	0.987	0.085	35	1.004	0.084	36	1.02	0.082
37	1.037	0.081	38	1.053	0.08	39	1.069	0.079	40	1.086	0.077
41	1.102	0.076	42	1.119	0.075	43	1.135	0.074	44	1.152	0.073
45	1.168	0.072	46	1.185	0.071	47	1.201	0.07	48	1.217	0.069
49	1.234	0.068	50	1.25	0.067	51	1.267	0.066	52	1.283	0.065
53	1.3	0.065	54	1.316	0.064	55	1.333	0.063	56	1.349	0.062
57	1.365	0.062	58	1.382	0.061	59	1.398	0.06	60	1.415	0.059
61	1.431	0.059	62	1.448	0.058	63	1.464	0.057	64	1.481	0.057
65	1.497	0.056	66	1.513	0.056	67	1.53	0.055	68	1.546	0.054
69	1.563	0.054	70	1.579	0.053	71	1.596	0.053	72	1.612	0.052
73	1.629	0.052	74	1.645	0.051	75	1.661	0.051	76	1.678	0.05
77	1.694	0.05	78	1.711	0.049	79	1.727	0.049	80	1.744	0.048
81	1.76	0.048	82	1.777	0.047	83	1.793	0.047	84	1.809	0.046
85	1.826	0.046	86	1.842	0.046	87	1.859	0.045	88	1.875	0.045
89	1.892	0.044	90	1.908	0.044	91	1.925	0.044	92	1.941	0.043
93	1.957	0.043	94	1.974	0.043	95	1.99	0.042	96	2.007	0.042
97	2.023	0.042	98	2.04	0.041	99	2.056	0.041	100	2.073	0.041
101	2.089	0.04	102	2.105	0.04	103	2.122	0.04	104	2.138	0.039
105	2.188	0.038	106	2.238	0.036	107	2.288	0.034	108	2.338	0.033
109	2.388	0.032	110	2.438	0.03	111	2.488	0.029	112	2.538	0.028
113	2.588	0.027	114	2.638	0.027	115	2.688	0.027	116	2.738	0.027
117	2.788	0.027	118	2.838	0.027	119	2.888	0.027	120	2.938	0.027
121	2.988	0.027	122	3.038	0.027	123	3.088	0.027	124	3.138	0.027
125	3.188	0.027	126	3.238	0.027	127	3.288	0.027	128	3.338	0.027
129	3.388	0.027	130	3.438	0.027	131	3.488	0.027	132	3.538	0.027
133	3.588	0.027	134	3.638	0.027	135	3.688	0.027	136	3.738	0.027
137	3.788	0.027	138	3.838	0.027	139	3.888	0.027	140	3.938	0.027
141	3.988	0.027	142	4.038	0.027	143	4.088	0.027	144	4.138	0.027
145	4.188	0.027	146	4.238	0.027	147	4.288	0.027	148	4.338	0.027
149	4.388	0.027	150	4.438	0.027	151	4.488	0.027	152	4.538	0.027
153	4.588	0.027	154	4.638	0.027	155	4.688	0.027	156	4.738	0.027
157	4.788	0.027	158	4.838	0.027	159	4.888	0.027	160	4.938	0.027
161	4.988	0.027	162	5.038	0.027	163	5.088	0.027	164	5.138	0.027

Sisma Y SLV



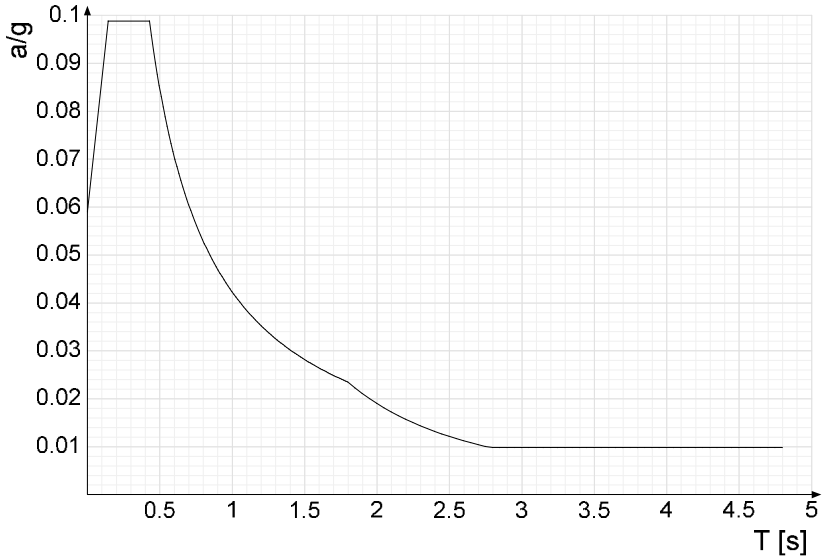
Ind.vertice	T	a/g	Ind.vertice	T	a/g	Ind.vertice	T	a/g	Ind.vertice	T	a/g
1	0	0.161	2	0.159	0.176	3	0.478	0.176	4	0.494	0.17
5	0.51	0.165	6	0.527	0.16	7	0.543	0.155	8	0.56	0.15
9	0.576	0.146	10	0.593	0.142	11	0.609	0.138	12	0.625	0.134
13	0.642	0.131	14	0.658	0.128	15	0.675	0.125	16	0.691	0.122
17	0.708	0.119	18	0.724	0.116	19	0.741	0.113	20	0.757	0.111
21	0.773	0.109	22	0.79	0.106	23	0.806	0.104	24	0.823	0.102
25	0.839	0.1	26	0.856	0.098	27	0.872	0.096	28	0.889	0.095
29	0.905	0.093	30	0.921	0.091	31	0.938	0.09	32	0.954	0.088
33	0.971	0.087	34	0.987	0.085	35	1.004	0.084	36	1.02	0.082
37	1.037	0.081	38	1.053	0.08	39	1.069	0.079	40	1.086	0.077
41	1.102	0.076	42	1.119	0.075	43	1.135	0.074	44	1.152	0.073
45	1.168	0.072	46	1.185	0.071	47	1.201	0.07	48	1.217	0.069
49	1.234	0.068	50	1.25	0.067	51	1.267	0.066	52	1.283	0.065
53	1.3	0.065	54	1.316	0.064	55	1.333	0.063	56	1.349	0.062
57	1.365	0.062	58	1.382	0.061	59	1.398	0.06	60	1.415	0.059
61	1.431	0.059	62	1.448	0.058	63	1.464	0.057	64	1.481	0.057
65	1.497	0.056	66	1.513	0.056	67	1.53	0.055	68	1.546	0.054
69	1.563	0.054	70	1.579	0.053	71	1.596	0.053	72	1.612	0.052
73	1.629	0.052	74	1.645	0.051	75	1.661	0.051	76	1.678	0.05
77	1.694	0.05	78	1.711	0.049	79	1.727	0.049	80	1.744	0.048
81	1.76	0.048	82	1.777	0.047	83	1.793	0.047	84	1.809	0.046
85	1.826	0.046	86	1.842	0.046	87	1.859	0.045	88	1.875	0.045
89	1.892	0.044	90	1.908	0.044	91	1.925	0.044	92	1.941	0.043
93	1.957	0.043	94	1.974	0.043	95	1.99	0.042	96	2.007	0.042
97	2.023	0.042	98	2.04	0.041	99	2.056	0.041	100	2.073	0.041
101	2.089	0.04	102	2.105	0.04	103	2.122	0.04	104	2.138	0.039
105	2.188	0.038	106	2.238	0.036	107	2.288	0.034	108	2.338	0.033
109	2.388	0.032	110	2.438	0.03	111	2.488	0.029	112	2.538	0.028
113	2.588	0.027	114	2.638	0.027	115	2.688	0.027	116	2.738	0.027
117	2.788	0.027	118	2.838	0.027	119	2.888	0.027	120	2.938	0.027
121	2.988	0.027	122	3.038	0.027	123	3.088	0.027	124	3.138	0.027
125	3.188	0.027	126	3.238	0.027	127	3.288	0.027	128	3.338	0.027
129	3.388	0.027	130	3.438	0.027	131	3.488	0.027	132	3.538	0.027
133	3.588	0.027	134	3.638	0.027	135	3.688	0.027	136	3.738	0.027
137	3.788	0.027	138	3.838	0.027	139	3.888	0.027	140	3.938	0.027
141	3.988	0.027	142	4.038	0.027	143	4.088	0.027	144	4.138	0.027
145	4.188	0.027	146	4.238	0.027	147	4.288	0.027	148	4.338	0.027
149	4.388	0.027	150	4.438	0.027	151	4.488	0.027	152	4.538	0.027
153	4.588	0.027	154	4.638	0.027	155	4.688	0.027	156	4.738	0.027
157	4.788	0.027	158	4.838	0.027	159	4.888	0.027	160	4.938	0.027
161	4.988	0.027	162	5.038	0.027	163	5.088	0.027	164	5.138	0.027

Sisma X SLD



Ind.vertice	T	a/g	Ind.vertice	T	a/g	Ind.vertice	T	a/g	Ind.vertice	T	a/g
1	0	0.059	2	0.143	0.099	3	0.428	0.099	4	0.441	0.096
5	0.455	0.093	6	0.468	0.09	7	0.482	0.088	8	0.495	0.085
9	0.509	0.083	10	0.522	0.081	11	0.536	0.079	12	0.55	0.077
13	0.563	0.075	14	0.577	0.073	15	0.59	0.072	16	0.604	0.07
17	0.617	0.068	18	0.631	0.067	19	0.644	0.066	20	0.658	0.064
21	0.672	0.063	22	0.685	0.062	23	0.699	0.06	24	0.712	0.059
25	0.726	0.058	26	0.739	0.057	27	0.753	0.056	28	0.766	0.055
29	0.78	0.054	30	0.794	0.053	31	0.807	0.052	32	0.821	0.051
33	0.834	0.051	34	0.848	0.05	35	0.861	0.049	36	0.875	0.048
37	0.888	0.048	38	0.902	0.047	39	0.916	0.046	40	0.929	0.045
41	0.943	0.045	42	0.956	0.044	43	0.97	0.044	44	0.983	0.043
45	0.997	0.042	46	1.01	0.042	47	1.024	0.041	48	1.038	0.041
49	1.051	0.04	50	1.065	0.04	51	1.078	0.039	52	1.092	0.039
53	1.105	0.038	54	1.119	0.038	55	1.132	0.037	56	1.146	0.037
57	1.16	0.036	58	1.173	0.036	59	1.187	0.036	60	1.2	0.035
61	1.214	0.035	62	1.227	0.034	63	1.241	0.034	64	1.254	0.034
65	1.268	0.033	66	1.282	0.033	67	1.295	0.033	68	1.309	0.032
69	1.322	0.032	70	1.336	0.032	71	1.349	0.031	72	1.363	0.031
73	1.376	0.031	74	1.39	0.03	75	1.404	0.03	76	1.417	0.03
77	1.431	0.03	78	1.444	0.029	79	1.458	0.029	80	1.471	0.029
81	1.485	0.028	82	1.498	0.028	83	1.512	0.028	84	1.526	0.028
85	1.539	0.027	86	1.553	0.027	87	1.566	0.027	88	1.58	0.027
89	1.593	0.027	90	1.607	0.026	91	1.62	0.026	92	1.634	0.026
93	1.648	0.026	94	1.661	0.025	95	1.675	0.025	96	1.688	0.025
97	1.702	0.025	98	1.715	0.025	99	1.729	0.024	100	1.742	0.024
101	1.756	0.024	102	1.77	0.024	103	1.783	0.024	104	1.797	0.024
105	1.847	0.022	106	1.897	0.021	107	1.947	0.02	108	1.997	0.019
109	2.047	0.018	110	2.097	0.017	111	2.147	0.016	112	2.197	0.016
113	2.247	0.015	114	2.297	0.014	115	2.347	0.014	116	2.397	0.013
117	2.447	0.013	118	2.497	0.012	119	2.547	0.012	120	2.597	0.011
121	2.647	0.011	122	2.697	0.01	123	2.747	0.01	124	2.797	0.01
125	2.847	0.01	126	2.897	0.01	127	2.947	0.01	128	2.997	0.01
129	3.047	0.01	130	3.097	0.01	131	3.147	0.01	132	3.197	0.01
133	3.247	0.01	134	3.297	0.01	135	3.347	0.01	136	3.397	0.01
137	3.447	0.01	138	3.497	0.01	139	3.547	0.01	140	3.597	0.01
141	3.647	0.01	142	3.697	0.01	143	3.747	0.01	144	3.797	0.01
145	3.847	0.01	146	3.897	0.01	147	3.947	0.01	148	3.997	0.01
149	4.047	0.01	150	4.097	0.01	151	4.147	0.01	152	4.197	0.01
153	4.247	0.01	154	4.297	0.01	155	4.347	0.01	156	4.397	0.01
157	4.447	0.01	158	4.497	0.01	159	4.547	0.01	160	4.597	0.01
161	4.647	0.01	162	4.697	0.01	163	4.747	0.01	164	4.797	0.01

Sisma Y SLD



Ind.vertice	T	a/g	Ind.vertice	T	a/g	Ind.vertice	T	a/g	Ind.vertice	T	a/g
1	0	0.059	2	0.143	0.099	3	0.428	0.099	4	0.441	0.096
5	0.455	0.093	6	0.468	0.09	7	0.482	0.088	8	0.495	0.085
9	0.509	0.083	10	0.522	0.081	11	0.536	0.079	12	0.55	0.077
13	0.563	0.075	14	0.577	0.073	15	0.59	0.072	16	0.604	0.07
17	0.617	0.068	18	0.631	0.067	19	0.644	0.066	20	0.658	0.064
21	0.672	0.063	22	0.685	0.062	23	0.699	0.06	24	0.712	0.059
25	0.726	0.058	26	0.739	0.057	27	0.753	0.056	28	0.766	0.055
29	0.78	0.054	30	0.794	0.053	31	0.807	0.052	32	0.821	0.051
33	0.834	0.051	34	0.848	0.05	35	0.861	0.049	36	0.875	0.048
37	0.888	0.048	38	0.902	0.047	39	0.916	0.046	40	0.929	0.045
41	0.943	0.045	42	0.956	0.044	43	0.97	0.044	44	0.983	0.043
45	0.997	0.042	46	1.01	0.042	47	1.024	0.041	48	1.038	0.041
49	1.051	0.04	50	1.065	0.04	51	1.078	0.039	52	1.092	0.039
53	1.105	0.038	54	1.119	0.038	55	1.132	0.037	56	1.146	0.037
57	1.16	0.036	58	1.173	0.036	59	1.187	0.036	60	1.2	0.035
61	1.214	0.035	62	1.227	0.034	63	1.241	0.034	64	1.254	0.034
65	1.268	0.033	66	1.282	0.033	67	1.295	0.033	68	1.309	0.032
69	1.322	0.032	70	1.336	0.032	71	1.349	0.031	72	1.363	0.031
73	1.376	0.031	74	1.39	0.03	75	1.404	0.03	76	1.417	0.03
77	1.431	0.03	78	1.444	0.029	79	1.458	0.029	80	1.471	0.029
81	1.485	0.028	82	1.498	0.028	83	1.512	0.028	84	1.526	0.028
85	1.539	0.027	86	1.553	0.027	87	1.566	0.027	88	1.58	0.027
89	1.593	0.027	90	1.607	0.026	91	1.62	0.026	92	1.634	0.026
93	1.648	0.026	94	1.661	0.025	95	1.675	0.025	96	1.688	0.025
97	1.702	0.025	98	1.715	0.025	99	1.729	0.024	100	1.742	0.024
101	1.756	0.024	102	1.77	0.024	103	1.783	0.024	104	1.797	0.024
105	1.847	0.022	106	1.897	0.021	107	1.947	0.02	108	1.997	0.019
109	2.047	0.018	110	2.097	0.017	111	2.147	0.016	112	2.197	0.016
113	2.247	0.015	114	2.297	0.014	115	2.347	0.014	116	2.397	0.013
117	2.447	0.013	118	2.497	0.012	119	2.547	0.012	120	2.597	0.011
121	2.647	0.011	122	2.697	0.01	123	2.747	0.01	124	2.797	0.01
125	2.847	0.01	126	2.897	0.01	127	2.947	0.01	128	2.997	0.01
129	3.047	0.01	130	3.097	0.01	131	3.147	0.01	132	3.197	0.01
133	3.247	0.01	134	3.297	0.01	135	3.347	0.01	136	3.397	0.01
137	3.447	0.01	138	3.497	0.01	139	3.547	0.01	140	3.597	0.01
141	3.647	0.01	142	3.697	0.01	143	3.747	0.01	144	3.797	0.01
145	3.847	0.01	146	3.897	0.01	147	3.947	0.01	148	3.997	0.01
149	4.047	0.01	150	4.097	0.01	151	4.147	0.01	152	4.197	0.01
153	4.247	0.01	154	4.297	0.01	155	4.347	0.01	156	4.397	0.01
157	4.447	0.01	158	4.497	0.01	159	4.547	0.01	160	4.597	0.01
161	4.647	0.01	162	4.697	0.01	163	4.747	0.01	164	4.797	0.01

7 Risultati numerici

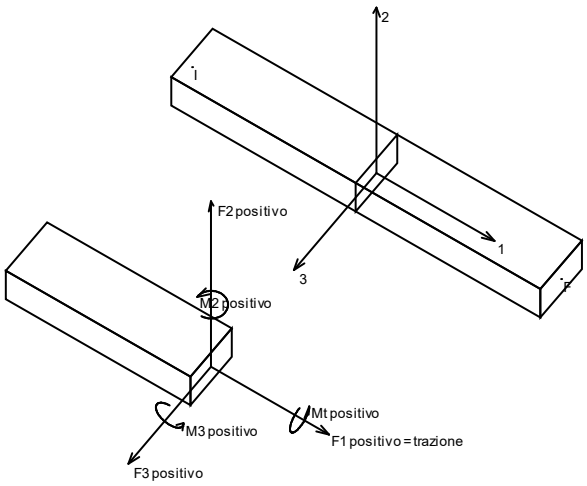
7.1 Sollecitazioni

7.1.1 Sollecitazioni aste

7.1.1.1 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.



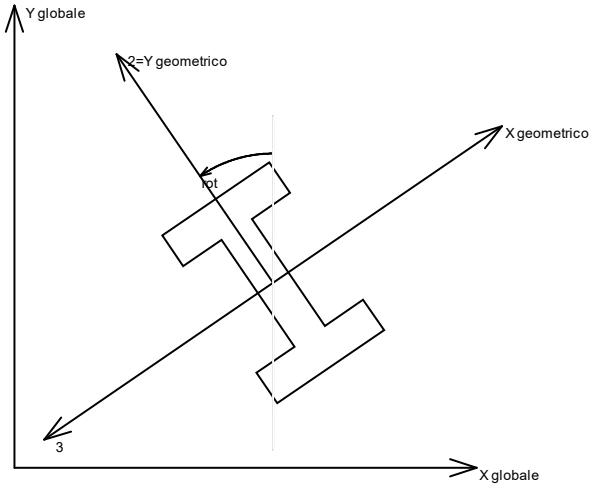
La convenzione sui segni per i parametri di sollecitazione delle aste è la seguente:
presa un'asta con nodo iniziale i e nodo finale f, asse 1 che va da i a f, assi 2 e 3 presi secondo quanto indicato nei paragrafi successivi relativi al sistema locale delle aste sezionando l'asta in un punto e considerando 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.

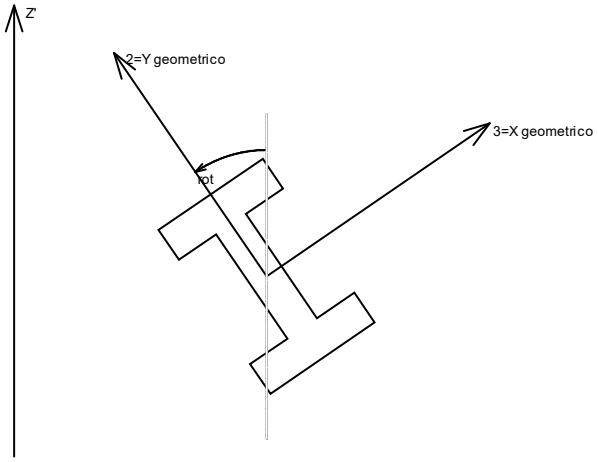
Nel seguito si indica con 1, 2 e 3 il sistema locale dell'asta che non sempre coincide con gli assi principali della sezione. Si ricorda che per assi principali si intendono gli assi rispetto a cui si ha il raggio di inerzia minimo e massimo. Gli assi 1, 2 e 3 rispettano la regola della mano destra.

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).

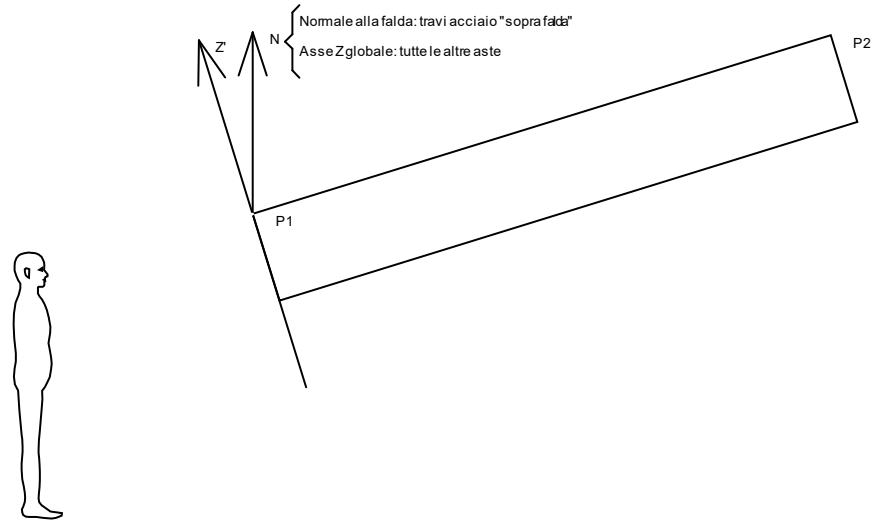
Sistema locale aste non verticali



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

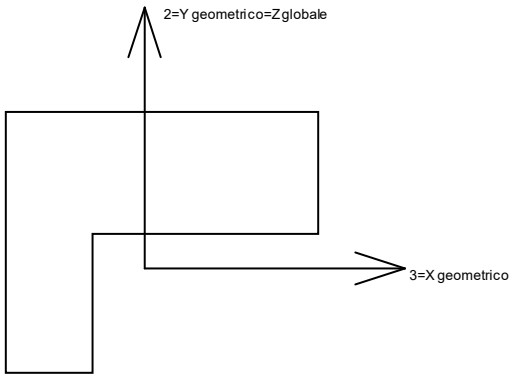
L'asse Z' è illustrato nella figura seguente dove:

- 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.

7.1.1.2 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
421	SLV FO 1	1	2696	619	430	-3482	-27634	616	14544	-45510	-3421053
385	SLV FO 3	1	2696	175	430	-3458	-27613	-620	-14412	45540	-3420094
372	SLV FO 13	1	1270	620	430	-3070	27075	-568	-14500	-14309	-2032517
361	SLV FO 1	1	727	619	430	-3060	-27982	640	14433	-47022	-3587208
348	SLV FO 15	1	1270	175	430	-3051	27054	569	14371	14100	-2032501

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
36	SLV FO 1	1	676	175	430	3264	20710	-2199	7732	-2827	-508774
12	SLV FO 3	1	676	619	430	3257	20723	2208	-7866	2548	-508367
348	SLV FO 1	1	1270	175	430	3204	20157	-2124	8437	-2860	-457892
372	SLV FO 3	1	1270	620	430	3193	20171	2134	-8582	2589	-457247
385	SLV FO 13	1	2696	175	430	3071	-21019	2102	-8575	-106281	-1537353

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
36	SLV FO 1	31	727	175	430	3264	21013	-2199	7732	-114038	-1564017
48	SLV FO 1	31	2696	175	430	2660	19811	-2151	7479	-111650	-1282068
397	SLV FO 13	1	3288	175	430	2933	-18753	2078	-7545	-108479	-1098414
349	SLV FO 13	1	1319	175	430	2541	-19724	2088	-7512	-107789	-1254315
348	SLV FO 1	31	1319	175	430	3204	20453	-2124	8437	-107642	-1459597

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
12	SLV FO 3	31	727	619	430	3257	21027	2208	-7866	114248	-1564294
24	SLV FO 3	31	2696	619	430	2655	19822	2159	-7612	111773	-1282065
409	SLV FO 15	1	3288	619	430	2924	-18793	-2089	7636	108718	-1099415
373	SLV FO 15	1	1319	620	430	2534	-19742	-2097	7639	108006	-1255272
372	SLV FO 3	31	1319	620	430	3193	20467	2134	-8582	107861	-1459664

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
24	SLV FO 15	31	2696	619	430	-1863	31441	9	-14531	-16619	-3965056
48	SLV FO 13	31	2696	175	430	-1841	31417	-6	14400	16612	-3964366
373	SLV FO 3	1	1319	620	430	-1819	-31410	12	14626	-17851	-3946490
349	SLV FO 1	1	1319	175	430	-1799	-31391	-13	-14492	17657	-3946169
12	SLV FO 15	31	727	619	430	-1917	30607	75	-14255	-12852	-3754816

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
356	SLV FO 1	31	1724	175	430	1720	-633	-30	2906	-1494	1788979
380	SLV FO 3	31	1724	620	430	1720	-631	30	-2916	1503	1788380
357	SLV FO 1	1	1724	175	430	1800	2006	-25	3557	281	1785894
381	SLV FO 3	1	1724	620	430	1799	2004	25	-3566	-261	1785315
41	SLV FO 13	1	2291	175	430	1679	645	31	-2949	-1502	1774124

7.1.2 Sollecitazioni gusci

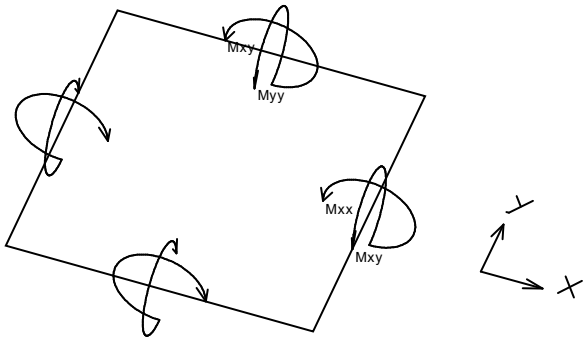
7.1.2.1 Convenzioni di segno gusci

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

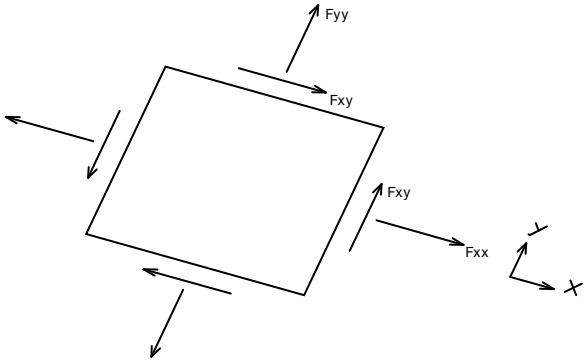
Il sistema di riferimento nel quale sono espressi i parametri di sollecitazione è così definito: origine appartenente al piano dell'elemento, asse x e y contenuti nel piano dell'elemento e terzo asse (z) ortogonale al piano dell'elemento a formare una terna destrogira. In particolare l'asse x ha proiezione in pianta parallela ed equiversa all'asse globale X. Nel caso di piastre orizzontali (caso più comune) gli assi x, y e z locali all'elemento sono paralleli ed equiversi agli assi X, Y e Z globali. 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 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:

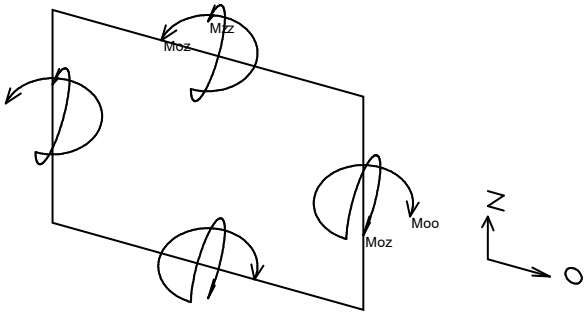
- Fxx: sforzo estensionale [Forza/Lunghezza] agente sul bordo di normale x (verso positivo indicato dalla freccia in figura che mette in trazione l'elemento);
- Fyy: sforzo estensionale [Forza/Lunghezza] agente sul bordo di normale all'asse y (verso positivo indicato dalla freccia in figura che mette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

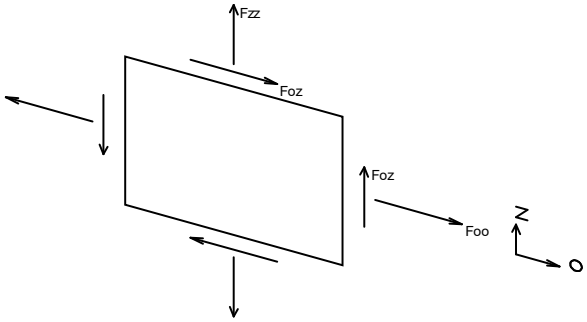
Convenzione di segno per gusci verticali

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.

7.1.2.2 Sollecitazioni estreme gusci non verticali

***Shell**: elemento guscio a cui si riferiscono le sollecitazioni.*
***Ind**: indice del guscio.*
***Cont.**: contesto a cui si riferiscono le sollecitazioni.*
***N.br.**: nome breve della condizione o combinazione di carico.*
***Nodo**: nodo su cui si basa il guscio a cui si riferisce la sollecitazione.*
***Ind**: indice del nodo.*
***Sollecitazione**: valori della sollecitazione.*

***Mxx**: componente Mxx della sollecitazione del guscio nel nodo indicato. [daN*cm/cm]*
***Mxy**: componente Mxy della sollecitazione del guscio nel nodo indicato. [daN*cm/cm]*
***Myy**: componente Myy della sollecitazione del guscio nel nodo indicato. [daN*cm/cm]*
***Fxx**: componente Fxx della sollecitazione del guscio nel nodo indicato. [daN/cm]*
***Fxy**: componente Fxy della sollecitazione del guscio nel nodo indicato. [daN/cm]*
***Fyy**: componente Fyy della sollecitazione del guscio nel nodo indicato. [daN/cm]*
***Vx**: componente Vo della sollecitazione del guscio nel nodo indicato. [daN/cm]*
***Vy**: componente Vz della sollecitazione del guscio nel nodo indicato. [daN/cm]*

Sollecitazioni con momento Mxx minimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Mxx	Mxy	Myy	Fxx	Fxy	Fyy	Vx	Vy
1890	SLV FO 1	537	-12708	-887	6063	15	3	18	17	15
1912	SLV FO 1	537	-12674	-903	6072	14	-3	19	-4	15
1921	SLV FO 3	1380	-12664	903	6018	11	0	17	-5	-14
1889	SLV FO 1	537	-12660	-554	6102	13	4	17	21	3
1922	SLV FO 3	1380	-12658	571	6130	12	2	16	-2	-1

Sollecitazioni con momento Mxx massimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Mxx	Mxy	Myy	Fxx	Fxy	Fyy	Vx	Vy
2956	SLV FO 11	1444	36262	5953	52240	81	-128	-519	994	1777
2340	SLV FO 7	1441	35469	-5385	53103	74	150	-504	-854	1497
2328	SLV FO 5	506	33863	2651	39675	-6	-82	-408	-486	-612
2076	SLV FO 7	1440	33672	-4929	53081	73	158	-493	-814	1395
2944	SLV FO 9	509	33121	-3127	37630	-13	64	-407	484	-632

Sollecitazioni con momento Myy minimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Mxx	Mxy	Myy	Fxx	Fxy	Fyy	Vx	Vy
6684	SLU 7	4644	-5190	1181	-14550	1	8	-12	-125	261
6256	SLU 7	4604	-5148	1184	-14528	0	7	-12	-126	261
6685	SLU 7	4644	-5346	-1176	-14503	9	-3	-12	130	258
6673	SLU 6	4663	-5072	-1153	-14501	3	-6	-12	125	260
6396	SLU 7	3776	-5182	-1170	-14488	1	-8	-12	-125	-260

Sollecitazioni con momento Myy massimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Mxx	Mxy	Myy	Fxx	Fxy	Fyy	Vx	Vy
2340	SLV FO 7	1441	35469	-5385	53103	74	150	-504	-854	1497
2076	SLV FO 7	1440	33672	-4929	53081	73	158	-493	-814	1395
2956	SLV FO 11	1444	36262	5953	52240	81	-128	-519	994	1777
2098	SLV FO 11	1440	32807	5424	50691	50	-169	-427	725	1112
2362	SLV FO 11	1441	31044	5282	49146	49	-172	-398	703	1023

Sollecitazioni con sforzo Fxx minimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Mxx	Mxy	Myy	Fxx	Fxy	Fyy	Vx	Vy
2945	SLV FO 13	594	29427	-4111	23226	-95	64	75	301	-337
2955	SLV FO 15	1340	15907	4496	12124	-92	-182	-34	311	-87
2329	SLV FO 1	591	29609	4054	24008	-92	-63	79	-297	-345
2593	SLV FO 1	592	20788	3450	19937	-90	-61	91	-225	-284
3209	SLV FO 13	595	26799	-3679	21571	-90	60	67	285	-319

Sollecitazioni con sforzo Fxx massimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Mxx	Mxy	Myy	Fxx	Fxy	Fyy	Vx	Vy
4649	SLU 10	3176	-5975	-525	-503	115	6	38	-60	-13
4362	SLU 10	5305	-5971	524	-504	115	-6	38	-59	13
6768	SLV FO 3	3808	-2602	836	-1861	96	12	21	66	-88
6710	SLV FO 15	3802	-2574	-839	-1859	95	-12	23	-65	-88
6752	SLV FO 1	4591	-2618	-835	-1873	93	-13	19	67	88

Sollecitazioni con sforzo Fyy minimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Mxx	Mxy	Myy	Fxx	Fxy	Fyy	Vx	Vy
2956	SLV FO 11	1444	36262	5953	52240	81	-128	-519	994	1777
2340	SLV FO 7	1441	35469	-5385	53103	74	150	-504	-854	1497
2076	SLV FO 7	1440	33672	-4929	53081	73	158	-493	-814	1395
3220	SLV FO 11	1445	32682	4858	47014	72	-125	-464	833	1482
2098	SLV FO 11	1440	32807	5424	50691	50	-169	-427	725	1112

Sollecitazioni con sforzo Fyy massimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Mxx	Mxy	Myy	Fxx	Fxy	Fyy	Vx	Vy
2074	SLV FO 7	1355	22380	-1190	8285	-32	76	282	-211	41
2338	SLV FO 7	1356	23246	-1358	8204	-33	72	280	-197	40
4472	SLU 9	3678	-920	-57	-179	-18	-4	280	-28	-10
3933	SLU 9	3670	-811	-38	-166	-16	-3	279	-30	-11
4024	SLU 9	3671	-977	68	-171	-16	4	278	26	-10

7.1.2.3 Sollecitazioni estreme gusci verticali

***Shell**: elemento guscio a cui si riferiscono le sollecitazioni.*
***Ind**: indice del guscio.*
***Cont.**: contesto a cui si riferiscono le sollecitazioni.*
***N.br.**: nome breve della condizione o combinazione di carico.*
***Nodo**: nodo su cui si basa il guscio a cui si riferisce la sollecitazione.*
***Ind**: indice del nodo.*
***Sollecitazione**: valori della sollecitazione.*
***Moo**: componente Moo della sollecitazione del guscio nel nodo indicato. [daN*cm/cm]*
***Moz**: componente Moz della sollecitazione del guscio nel nodo indicato. [daN*cm/cm]*
***Mzz**: componente Mzz della sollecitazione del guscio nel nodo indicato. [daN*cm/cm]*
***Foo**: componente Foo della sollecitazione del guscio nel nodo indicato. [daN/cm]*
***Foz**: componente Foz della sollecitazione del guscio nel nodo indicato. [daN/cm]*
***Fzz**: componente Fzz della sollecitazione del guscio nel nodo indicato. [daN/cm]*
***Vo**: componente Vo della sollecitazione del guscio nel nodo indicato. [daN/cm]*
***Vz**: componente Vz della sollecitazione del guscio nel nodo indicato. [daN/cm]*

Sollecitazioni con momento Moo minimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Moo	Moz	Mzz	Foo	Foz	Fzz	Vo	Vz
693	SLV FO 15	3043	-9345	628	-7482	75	-22	-436	444	1341
912	SLV FO 1	5441	-9110	-902	-16719	127	127	-37	-487	-2120
913	SLV FO 3	5416	-9091	906	-16650	134	-132	-44	489	-2125
805	SLV FO 15	3043	-9026	2270	-9282	-28	-41	-255	315	55
218	SLV FO 3	5442	-8057	-717	-15073	131	115	-70	-432	-1855

Sollecitazioni con momento Moo massimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Moo	Moz	Mzz	Foo	Foz	Fzz	Vo	Vz
672	SLV FO 15	5443	9129	862	16854	137	132	-73	494	2114
932	SLV FO 3	3042	9020	-1243	7418	72	-27	-431	-474	-1273
675	SLV FO 13	5415	8995	-850	16757	142	-133	-86	-481	2098
1003	SLV FO 3	3042	8713	-2770	9362	-32	-43	-250	-297	-34
942	SLV FO 1	3029	8350	843	7247	65	14	-402	442	-1214

Sollecitazioni con momento Mzz minimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Moo	Moz	Mzz	Foo	Foz	Fzz	Vo	Vz
1175	SLV FO 15	4604	-6570	-12105	-44847	257	-160	-1306	350	1209
1311	SLV FO 13	3821	-6566	12112	-44760	270	177	-1304	-350	1202
693	SLV FO 15	3800	708	-4497	-43112	198	-223	-525	-29	1820
1391	SLV FO 15	4622	-6899	-11215	-42373	245	-141	-1185	344	1138
1527	SLV FO 13	3833	-6897	11224	-42321	257	157	-1184	-345	1133

Sollecitazioni con momento Mzz massimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Moo	Moz	Mzz	Foo	Foz	Fzz	Vo	Vz
26	SLV FO 3	4663	6704	12431	45893	256	-157	-1298	-358	-1235
162	SLV FO 1	3788	6703	-12435	45862	270	174	-1299	358	-1232
932	SLV FO 3	3809	-643	5110	42459	197	-235	-507	-23	-1682
942	SLV FO 1	4592	-624	-4961	42332	199	228	-513	7	-1659
9	SLV FO 3	4663	-503	-6215	42046	-5	294	-968	191	-982

Sollecitazioni con sforzo Foo minimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Moo	Moz	Mzz	Foo	Foz	Fzz	Vo	Vz
652	SLU 9	2793	178	424	-621	-1434	133	-657	0	-3
1346	SLU 9	2797	168	594	-859	-1434	133	-655	2	-3
1675	SLU 10	2799	-955	-63	-2026	-1431	223	-326	26	-37
1586	SLU 10	2807	-966	68	-2024	-1429	-223	-326	-26	-37
1362	SLU 9	2805	168	-593	-865	-1425	-197	-706	-1	-3

Sollecitazioni con sforzo Foo massimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Moo	Moz	Mzz	Foo	Foz	Fzz	Vo	Vz
1675	SLU 10	5413	202	-537	1486	723	69	-94	-6	-40
1586	SLU 10	5451	215	540	1499	721	-69	-94	7	-40
1345	SLU 9	5411	-445	470	701	672	-131	453	13	-31
651	SLU 9	5407	-352	410	594	671	-131	453	10	-23
196	SLU 9	5408	504	-506	-706	664	-131	451	-15	37

Sollecitazioni con sforzo Fzz minimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Moo	Moz	Mzz	Foo	Foz	Fzz	Vo	Vz
456	SLV FO 7	2156	136	33	-3728	-258	830	-3144	-8	-22
626	SLV FO 5	2148	176	-42	-3709	-267	-835	-3135	9	-25
1	SLV FO 7	2157	155	-53	-3915	-253	814	-3091	-8	-31
171	SLV FO 5	2149	217	40	-3885	-263	-821	-3084	9	-36
1150	SLV FO 11	2160	-84	80	4071	-238	770	-2930	9	35

Sollecitazioni con sforzo Fzz massimo

Vengono mostrati i soli 5 gusci più sollecitati.

Shell	Cont.	Nodo	Sollecitazione							
Ind	N.br.	Ind	Moo	Moz	Mzz	Foo	Foz	Fzz	Vo	Vz
626	SLV Y	2148	-4	9	19	88	260	964	0	0
171	SLV Y	2149	-1	1	-17	85	254	937	0	0
913	SLV FO 3	5346	2849	7685	-21969	265	-125	874	489	-2125
675	SLV FO 15	5345	-2777	-7647	22055	265	-123	868	-481	2103
912	SLV FO 1	5347	2840	-7785	-22051	255	122	859	-487	-2120

7.1.3 Sollecitazioni gusci armati

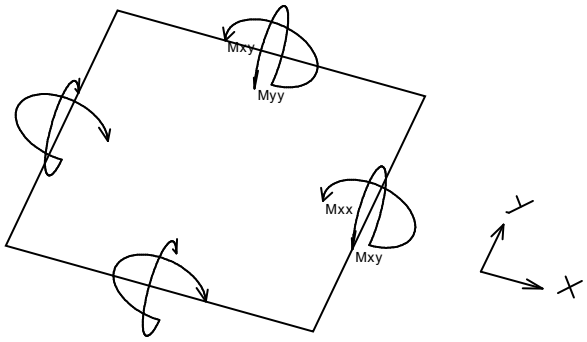
7.1.3.1 Convenzioni di segno gusci

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

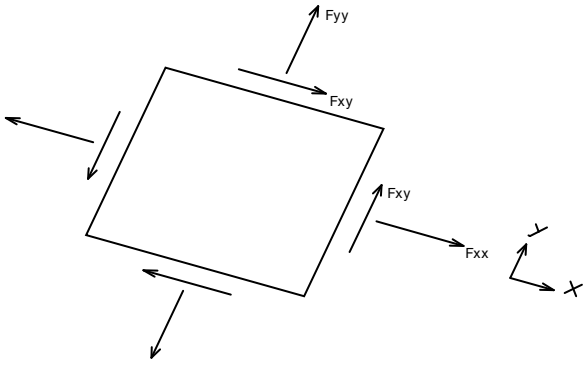
Il sistema di riferimento nel quale sono espressi i parametri di sollecitazione è così definito: origine appartenente al piano dell'elemento, asse x e y contenuti nel piano dell'elemento e terzo asse (z) ortogonale al piano dell'elemento a formare una terna destrogira. In particolare l'asse x ha proiezione in pianta parallela ed equiversa all'asse globale X. Nel caso di piastre orizzontali (caso più comune) gli assi x, y e z locali all'elemento sono paralleli ed equiversi agli assi X, Y e Z globali. 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 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:

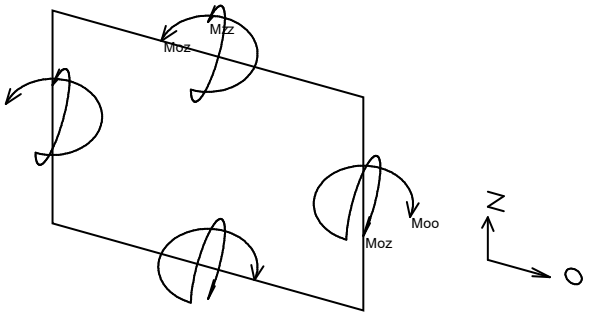
- Fxx: sforzo estensionale [Forza/Lunghezza] agente sul bordo di normale x (verso positivo indicato dalla freccia in figura che mette in trazione l'elemento);
- Fyy: sforzo estensionale [Forza/Lunghezza] agente sul bordo di normale all'asse y (verso positivo indicato dalla freccia in figura che mette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

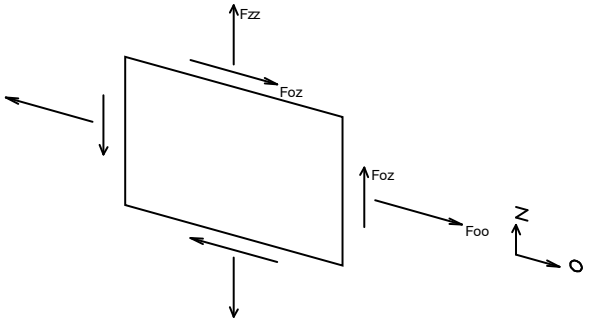
Convenzione di segno per gusci verticali

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.

7.2 Spostamenti nodali

7.2.1 Spostamenti nodali in combinazioni di carico

***Nodo**: nodo interessato dallo spostamento.*
***Ind.**: indice del nodo.*
***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.	N.br.	ux	uy	uz	rx	ry	rz
7669	SLU 1	-0.01844	-0.00305	-0.70936	0.0142	0.0092	0
7669	SLU 2	-0.01836	-0.00351	-0.72177	0.0165	0.0115	0
7669	SLU 3	-0.02164	-0.00354	-0.75727	0.0164	0.0105	0
7669	SLU 4	-0.02312	-0.00309	-0.76007	0.0141	0.0077	0
7669	SLU 5	-0.02308	-0.00332	-0.76627	0.0153	0.0088	0
7669	SLU 6	-0.02398	-0.00396	-0.92216	0.0184	0.012	0
7669	SLU 7	-0.02389	-0.00443	-0.93458	0.0207	0.0143	0.0001
7669	SLU 8	-0.02717	-0.00446	-0.97008	0.0207	0.0132	0.0001
7669	SLU 9	-0.02866	-0.00401	-0.97287	0.0184	0.0105	0
7669	SLU 10	-0.02862	-0.00424	-0.97908	0.0195	0.0116	0.0001
7669	SLE RA 1	-0.01844	-0.00305	-0.70936	0.0142	0.0092	0
7669	SLE RA 2	-0.01839	-0.00336	-0.71763	0.0157	0.0108	0
7669	SLE RA 3	-0.02057	-0.00338	-0.7413	0.0157	0.0101	0
7669	SLE RA 4	-0.02156	-0.00308	-0.74316	0.0141	0.0082	0
7669	SLE RA 5	-0.02154	-0.00323	-0.7473	0.0149	0.009	0
7669	SLE FR 1	-0.01844	-0.00305	-0.70936	0.0142	0.0092	0
7669	SLE FR 2	-0.01843	-0.00311	-0.71101	0.0145	0.0095	0
7669	SLE FR 3	-0.02031	-0.00313	-0.7313	0.0145	0.0089	0
7669	SLE FR 4	-0.02063	-0.00307	-0.73302	0.0142	0.0085	0
7669	SLE QP 1	-0.01844	-0.00305	-0.70936	0.0142	0.0092	0
7669	SLE QP 2	-0.02032	-0.00307	-0.72964	0.0142	0.0086	0
7669	SLD 1	-0.60282	-0.04762	-0.80258	0.017	-0.0065	0.0001
7669	SLD 2	-0.60282	-0.04762	-0.80258	0.017	-0.0065	0.0001
7669	SLD 3	-0.60257	0.04151	-0.75663	0.0107	-0.0064	0.0001
7669	SLD 4	-0.60257	0.04151	-0.75663	0.0107	-0.0064	0.0001
7669	SLD 5	-0.19545	-0.15161	-0.8212	0.0246	0.004	0
7669	SLD 6	-0.19545	-0.15161	-0.8212	0.0246	0.004	0
7669	SLD 7	-0.19461	0.14548	-0.66806	0.0035	0.0041	0.0001
7669	SLD 8	-0.19461	0.14548	-0.66806	0.0035	0.0041	0.0001
7669	SLD 9	0.15398	-0.15162	-0.79122	0.0248	0.0131	0
7669	SLD 10	0.15398	-0.15162	-0.79122	0.0248	0.0131	0
7669	SLD 11	0.15481	0.14548	-0.63808	0.0037	0.0132	0.0001
7669	SLD 12	0.15481	0.14548	-0.63808	0.0037	0.0132	0.0001
7669	SLD 13	0.56194	-0.04764	-0.70265	0.0177	0.0237	0
7669	SLD 14	0.56194	-0.04764	-0.70265	0.0177	0.0237	0
7669	SLD 15	0.56219	0.04149	-0.6567	0.0113	0.0237	0
7669	SLD 16	0.56219	0.04149	-0.6567	0.0113	0.0237	0
7669	SLV 1	-1.05766	-0.08241	-0.85953	0.0192	-0.0183	0.0001
7669	SLV 2	-1.05766	-0.08241	-0.85953	0.0192	-0.0183	0.0001
7669	SLV 3	-1.05721	0.07631	-0.77771	0.0079	-0.0182	0.0001
7669	SLV 4	-1.05721	0.07631	-0.77771	0.0079	-0.0182	0.0001
7669	SLV 5	-0.33219	-0.2676	-0.8927	0.0328	0.0005	0
7669	SLV 6	-0.33219	-0.2676	-0.8927	0.0328	0.0005	0
7669	SLV 7	-0.33071	0.26148	-0.61997	-0.0049	0.0006	0.0001
7669	SLV 8	-0.33071	0.26148	-0.61997	-0.0049	0.0006	0.0001
7669	SLV 9	0.29008	-0.26761	-0.83931	0.0332	0.0166	0
7669	SLV 10	0.29008	-0.26761	-0.83931	0.0332	0.0166	0
7669	SLV 11	0.29156	0.26147	-0.56658	-0.0045	0.0168	0.0001
7669	SLV 12	0.29156	0.26147	-0.56658	-0.0045	0.0168	0.0001
7669	SLV 13	1.01658	-0.08245	-0.68157	0.0204	0.0355	0
7669	SLV 14	1.01658	-0.08245	-0.68157	0.0204	0.0355	0
7669	SLV 15	1.01702	0.07628	-0.59975	0.0091	0.0355	0
7669	SLV 16	1.01702	0.07628	-0.59975	0.0091	0.0355	0
7669	SLV FO 1	-1.16139	-0.09035	-0.87252	0.0198	-0.021	0.0001
7669	SLV FO 2	-1.16139	-0.09035	-0.87252	0.0198	-0.021	0.0001
7669	SLV FO 3	-1.1609	0.08425	-0.78252	0.0073	-0.0209	0.0001
7669	SLV FO 4	-1.1609	0.08425	-0.78252	0.0073	-0.0209	0.0001
7669	SLV FO 5	-0.36338	-0.29405	-0.90901	0.0347	-0.0003	0
7669	SLV FO 6	-0.36338	-0.29405	-0.90901	0.0347	-0.0003	0
7669	SLV FO 7	-0.36175	0.28793	-0.609	-0.0068	-0.0002	0.0001
7669	SLV FO 8	-0.36175	0.28793	-0.609	-0.0068	-0.0002	0.0001
7669	SLV FO 9	0.32112	-0.29406	-0.85028	0.0351	0.0174	0
7669	SLV FO 10	0.32112	-0.29406	-0.85028	0.0351	0.0174	0
7669	SLV FO 11	0.32275	0.28792	-0.55028	-0.0064	0.0176	0.0001
7669	SLV FO 12	0.32275	0.28792	-0.55028	-0.0064	0.0176	0.0001
7669	SLV FO 13	1.12027	-0.09038	-0.67676	0.021	0.0381	0
7669	SLV FO 14	1.12027	-0.09038	-0.67676	0.021	0.0381	0
7669	SLV FO 15	1.12076	0.08421	-0.58676	0.0086	0.0382	0
7669	SLV FO 16	1.12076	0.08421	-0.58676	0.0086	0.0382	0
7670	SLU 1	-0.021	-0.0037	-0.69419	0.0167	-0.0023	0
7670	SLU 2	-0.02144	-0.00424	-0.70779	0.0194	-0.0028	0
7670	SLU 3	-0.02456	-0.00428	-0.73819	0.0194	-0.0027	0
7670	SLU 4	-0.02545	-0.00375	-0.73762	0.0166	-0.0022	0
7670	SLU 5	-0.02567	-0.00402	-0.74442	0.018	-0.0025	0
7670	SLU 6	-0.0273	-0.0048	-0.90245	0.0217	-0.003	0
7670	SLU 7	-0.02774	-0.00535	-0.91605	0.0244	-0.0035	0
7670	SLU 8	-0.03086	-0.00539	-0.94645	0.0244	-0.0034	0
7670	SLU 9	-0.03175	-0.00486	-0.94588	0.0216	-0.0029	0
7670	SLU 10	-0.03197	-0.00513	-0.95268	0.023	-0.0032	0
7670	SLE RA 1	-0.021	-0.0037	-0.69419	0.0167	-0.0023	0
7670	SLE RA 2	-0.02129	-0.00406	-0.70326	0.0185	-0.0026	0
7670	SLE RA 3	-0.02337	-0.00409	-0.72353	0.0185	-0.0026	0
7670	SLE RA 4	-0.02397	-0.00373	-0.72315	0.0167	-0.0023	0
7670	SLE RA 5	-0.02412	-0.00391	-0.72768	0.0176	-0.0024	0
7670	SLE FR 1	-0.021	-0.0037	-0.69419	0.0167	-0.0023	0
7670	SLE FR 2	-0.02106	-0.00377	-0.69601	0.0171	-0.0024	0
7670	SLE FR 3	-0.02284	-0.00379	-0.71338	0.017	-0.0024	0
7670	SLE FR 4	-0.02308	-0.00372	-0.71446	0.0167	-0.0023	0
7670	SLE QP 1	-0.021	-0.0037	-0.69419	0.0167	-0.0023	0
7670	SLE QP 2	-0.02278	-0.00372	-0.71156	0.0167	-0.0023	0
7670	SLD 1	-0.60335	-0.04804	-0.73165	0.0196	-0.0084	0.0001
7670	SLD 2	-0.60335	-0.04804	-0.73165	0.0196	-0.0084	0.0001
7670	SLD 3	-0.60376	0.04069	-0.68572	0.0132	-0.0084	0
7670	SLD 4	-0.60376	0.04069	-0.68572	0.0132	-0.0084	0
7670	SLD 5	-0.19632	-0.15159	-0.78725	0.0272	-0.0041	0.0001
7670	SLD 6	-0.19632	-0.15159	-0.78725	0.0272	-0.0041	0.0001
7670	SLD 7	-0.19771	0.14418	-0.63415	0.006	-0.0041	-0.0001

Nodo	Cont.	Spostamento			Rotazione		
Ind.	N.br.	ux	uy	uz	rx	ry	rz
7670	SLD 8	-0.19771	0.14418	-0.63415	0.006	-0.0041	-0.0001
7670	SLD 9	0.15214	-0.15161	-0.78898	0.0273	-0.0005	0.0001
7670	SLD 10	0.15214	-0.15161	-0.78898	0.0273	-0.0005	0.0001
7670	SLD 11	0.15076	0.14415	-0.63588	0.0062	-0.0005	-0.0001
7670	SLD 12	0.15076	0.14415	-0.63588	0.0062	-0.0005	-0.0001
7670	SLD 13	0.5582	-0.04812	-0.73741	0.0201	0.0038	0
7670	SLD 14	0.5582	-0.04812	-0.73741	0.0201	0.0038	0
7670	SLD 15	0.55779	0.04061	-0.69148	0.0138	0.0038	0
7670	SLD 16	0.55779	0.04061	-0.69148	0.0138	0.0038	0
7670	SLV 1	-1.05667	-0.08265	-0.74734	0.0218	-0.0131	0.0001
7670	SLV 2	-1.05667	-0.08265	-0.74734	0.0218	-0.0131	0.0001
7670	SLV 3	-1.05741	0.07536	-0.66555	0.0105	-0.0131	0
7670	SLV 4	-1.05741	0.07536	-0.66555	0.0105	-0.0131	0
7670	SLV 5	-0.33183	-0.26705	-0.84635	0.0354	-0.0055	0.0002
7670	SLV 6	-0.33183	-0.26705	-0.84635	0.0354	-0.0055	0.0002
7670	SLV 7	-0.33429	0.25966	-0.57371	-0.0023	-0.0056	-0.0002
7670	SLV 8	-0.33429	0.25966	-0.57371	-0.0023	-0.0056	-0.0002
7670	SLV 9	0.28873	-0.26709	-0.84942	0.0357	0.001	0.0002
7670	SLV 10	0.28873	-0.26709	-0.84942	0.0357	0.001	0.0002
7670	SLV 11	0.28627	0.25962	-0.57678	-0.002	0.0009	-0.0002
7670	SLV 12	0.28627	0.25962	-0.57678	-0.002	0.0009	-0.0002
7670	SLV 13	1.01185	-0.08279	-0.75758	0.0228	0.0086	0
7670	SLV 14	1.01185	-0.08279	-0.75758	0.0228	0.0086	0
7670	SLV 15	1.01111	0.07522	-0.67579	0.0115	0.0086	-0.0001
7670	SLV 16	1.01111	0.07522	-0.67579	0.0115	0.0086	-0.0001
7670	SLV FO 1	-1.16006	-0.09054	-0.75091	0.0224	-0.0142	0.0001
7670	SLV FO 2	-1.16006	-0.09054	-0.75091	0.0224	-0.0142	0.0001
7670	SLV FO 3	-1.16088	0.08327	-0.66094	0.0099	-0.0142	0
7670	SLV FO 4	-1.16088	0.08327	-0.66094	0.0099	-0.0142	0
7670	SLV FO 5	-0.36273	-0.29338	-0.85983	0.0372	-0.0058	0.0002
7670	SLV FO 6	-0.36273	-0.29338	-0.85983	0.0372	-0.0058	0.0002
7670	SLV FO 7	-0.36544	0.286	-0.55992	-0.0042	-0.0059	-0.0002
7670	SLV FO 8	-0.36544	0.286	-0.55992	-0.0042	-0.0059	-0.0002
7670	SLV FO 9	0.31988	-0.29343	-0.86321	0.0376	0.0013	0.0002
7670	SLV FO 10	0.31988	-0.29343	-0.86321	0.0376	0.0013	0.0002
7670	SLV FO 11	0.31717	0.28595	-0.5633	-0.0039	0.0013	-0.0002
7670	SLV FO 12	0.31717	0.28595	-0.5633	-0.0039	0.0013	-0.0002
7670	SLV FO 13	1.11531	-0.0907	-0.76219	0.0234	0.0096	0
7670	SLV FO 14	1.11531	-0.0907	-0.76219	0.0234	0.0096	0
7670	SLV FO 15	1.1145	0.08311	-0.67221	0.011	0.0096	-0.0001
7670	SLV FO 16	1.1145	0.08311	-0.67221	0.011	0.0096	-0.0001
7677	SLU 1	-0.01851	-0.00306	-0.69776	0.0143	0.0088	0
7677	SLU 2	-0.01844	-0.00352	-0.70831	0.0166	0.011	0
7677	SLU 3	-0.02171	-0.00355	-0.74384	0.0166	0.0099	0
7677	SLU 4	-0.02319	-0.00311	-0.74852	0.0143	0.0072	0
7677	SLU 5	-0.02315	-0.00334	-0.75379	0.0154	0.0084	0
7677	SLU 6	-0.02406	-0.00398	-0.90709	0.0186	0.0114	0
7677	SLU 7	-0.02399	-0.00444	-0.91763	0.0209	0.0137	0
7677	SLU 8	-0.02727	-0.00447	-0.95317	0.0209	0.0126	0
7677	SLU 9	-0.02874	-0.00402	-0.95785	0.0186	0.0099	0
7677	SLU 10	-0.02871	-0.00425	-0.96312	0.0197	0.011	0
7677	SLE RA 1	-0.01851	-0.00306	-0.69776	0.0143	0.0088	0
7677	SLE RA 2	-0.01846	-0.00337	-0.70479	0.0158	0.0103	0
7677	SLE RA 3	-0.02065	-0.00339	-0.72848	0.0158	0.0096	0
7677	SLE RA 4	-0.02163	-0.00309	-0.7316	0.0143	0.0078	0
7677	SLE RA 5	-0.02161	-0.00324	-0.73512	0.015	0.0085	0
7677	SLE FR 1	-0.01851	-0.00306	-0.69776	0.0143	0.0088	0
7677	SLE FR 2	-0.0185	-0.00312	-0.69917	0.0146	0.0091	0
7677	SLE FR 3	-0.02037	-0.00314	-0.71947	0.0146	0.0085	0
7677	SLE FR 4	-0.02069	-0.00308	-0.72145	0.0143	0.0081	0
7677	SLE QP 1	-0.01851	-0.00306	-0.69776	0.0143	0.0088	0
7677	SLE QP 2	-0.02038	-0.00308	-0.71806	0.0143	0.0082	0
7677	SLD 1	-0.60291	-0.04768	-0.78861	0.0173	-0.0072	0
7677	SLD 2	-0.60291	-0.04768	-0.78861	0.0173	-0.0072	0
7677	SLD 3	-0.60268	0.04144	-0.74783	0.011	-0.0072	0
7677	SLD 4	-0.60268	0.04144	-0.74783	0.011	-0.0072	0
7677	SLD 5	-0.1955	-0.15163	-0.80107	0.0248	0.0035	0
7677	SLD 6	-0.1955	-0.15163	-0.80107	0.0248	0.0035	0
7677	SLD 7	-0.19471	0.14545	-0.66515	0.0037	0.0036	0
7677	SLD 8	-0.19471	0.14545	-0.66515	0.0037	0.0036	0
7677	SLD 9	0.15395	-0.15161	-0.77098	0.0249	0.0127	0
7677	SLD 10	0.15395	-0.15161	-0.77098	0.0249	0.0127	0
7677	SLD 11	0.15474	0.14547	-0.63506	0.0038	0.0128	0
7677	SLD 12	0.15474	0.14547	-0.63506	0.0038	0.0128	0
7677	SLD 13	0.56192	-0.0476	-0.6883	0.0176	0.0235	0
7677	SLD 14	0.56192	-0.0476	-0.6883	0.0176	0.0235	0
7677	SLD 15	0.56215	0.04152	-0.64752	0.0113	0.0235	0
7677	SLD 16	0.56215	0.04152	-0.64752	0.0113	0.0235	0
7677	SLV 1	-1.05777	-0.08251	-0.84369	0.0197	-0.0192	0
7677	SLV 2	-1.05777	-0.08251	-0.84369	0.0197	-0.0192	0
7677	SLV 3	-1.05736	0.07621	-0.77107	0.0084	-0.0192	0
7677	SLV 4	-1.05736	0.07621	-0.77107	0.0084	-0.0192	0
7677	SLV 5	-0.33223	-0.26763	-0.86589	0.033	-0.0001	-0.0001
7677	SLV 6	-0.33223	-0.26763	-0.86589	0.033	-0.0001	-0.0001
7677	SLV 7	-0.33084	0.26143	-0.62383	-0.0046	0	0
7677	SLV 8	-0.33084	0.26143	-0.62383	-0.0046	0	0
7677	SLV 9	0.29008	-0.26758	-0.8123	0.0332	0.0163	-0.0001
7677	SLV 10	0.29008	-0.26758	-0.8123	0.0332	0.0163	-0.0001
7677	SLV 11	0.29147	0.26147	-0.57024	-0.0044	0.0165	0.0001
7677	SLV 12	0.29147	0.26147	-0.57024	-0.0044	0.0165	0.0001
7677	SLV 13	1.0166	-0.08237	-0.66506	0.0202	0.0355	0
7677	SLV 14	1.0166	-0.08237	-0.66506	0.0202	0.0355	0
7677	SLV 15	1.01701	0.07635	-0.59244	0.0089	0.0355	0
7677	SLV 16	1.01701	0.07635	-0.59244	0.0089	0.0355	0
7677	SLV FO 1	-1.16151	-0.09045	-0.85625	0.0202	-0.0219	0
7677	SLV FO 2	-1.16151	-0.09045	-0.85625	0.0202	-0.0219	0
7677	SLV FO 3	-1.16106	0.08414	-0.77637	0.0078	-0.0219	0
7677	SLV FO 4	-1.16106	0.08414	-0.77637	0.0078	-0.0219	0

Nodo	Cont.	Spostamento			Rotazione		
Ind.	N.br.	ux	uy	uz	rx	ry	rz
7677	SLV FO 5	-0.36342	-0.29408	-0.88067	0.0349	-0.001	-0.0001
7677	SLV FO 6	-0.36342	-0.29408	-0.88067	0.0349	-0.001	-0.0001
7677	SLV FO 7	-0.36189	0.28788	-0.61441	-0.0065	-0.0008	0.0001
7677	SLV FO 8	-0.36189	0.28788	-0.61441	-0.0065	-0.0008	0.0001
7677	SLV FO 9	0.32113	-0.29404	-0.82172	0.0351	0.0171	-0.0001
7677	SLV FO 10	0.32113	-0.29404	-0.82172	0.0351	0.0171	-0.0001
7677	SLV FO 11	0.32266	0.28792	-0.55546	-0.0063	0.0173	0.0001
7677	SLV FO 12	0.32266	0.28792	-0.55546	-0.0063	0.0173	0.0001
7677	SLV FO 13	1.12029	-0.0903	-0.65976	0.0208	0.0382	0
7677	SLV FO 14	1.12029	-0.0903	-0.65976	0.0208	0.0382	0
7677	SLV FO 15	1.12075	0.08429	-0.57988	0.0084	0.0383	0
7677	SLV FO 16	1.12075	0.08429	-0.57988	0.0084	0.0383	0
7678	SLU 1	-0.02099	-0.00378	-0.68039	0.0173	-0.0022	0
7678	SLU 2	-0.02143	-0.00434	-0.69174	0.0201	-0.0027	0
7678	SLU 3	-0.02455	-0.00438	-0.72217	0.02	-0.0026	0
7678	SLU 4	-0.02544	-0.00384	-0.72386	0.0172	-0.0022	0
7678	SLU 5	-0.02566	-0.00411	-0.72954	0.0186	-0.0024	0
7678	SLU 6	-0.02728	-0.00492	-0.88451	0.0225	-0.0029	0
7678	SLU 7	-0.02772	-0.00547	-0.89586	0.0252	-0.0034	0
7678	SLU 8	-0.03084	-0.00551	-0.92629	0.0252	-0.0033	0
7678	SLU 9	-0.03174	-0.00497	-0.92798	0.0224	-0.0028	0
7678	SLU 10	-0.03196	-0.00525	-0.93366	0.0238	-0.0031	0
7678	SLE RA 1	-0.02099	-0.00378	-0.68039	0.0173	-0.0022	0
7678	SLE RA 2	-0.02128	-0.00415	-0.68796	0.0191	-0.0025	0
7678	SLE RA 3	-0.02336	-0.00418	-0.70825	0.0191	-0.0025	0
7678	SLE RA 4	-0.02396	-0.00382	-0.70937	0.0172	-0.0022	0
7678	SLE RA 5	-0.0241	-0.004	-0.71316	0.0182	-0.0023	0
7678	SLE FR 1	-0.02099	-0.00378	-0.68039	0.0173	-0.0022	0
7678	SLE FR 2	-0.02105	-0.00386	-0.68191	0.0176	-0.0023	0
7678	SLE FR 3	-0.02283	-0.00388	-0.6993	0.0176	-0.0023	0
7678	SLE FR 4	-0.02307	-0.00381	-0.70068	0.0173	-0.0022	0
7678	SLE QP 1	-0.02099	-0.00378	-0.68039	0.0173	-0.0022	0
7678	SLE QP 2	-0.02277	-0.0038	-0.69778	0.0173	-0.0022	0
7678	SLD 1	-0.60343	-0.04813	-0.71548	0.0202	-0.0087	0
7678	SLD 2	-0.60343	-0.04813	-0.71548	0.0202	-0.0087	0
7678	SLD 3	-0.60379	0.04059	-0.67472	0.0139	-0.0087	0
7678	SLD 4	-0.60379	0.04059	-0.67472	0.0139	-0.0087	0
7678	SLD 5	-0.19641	-0.15167	-0.76491	0.0277	-0.0042	0.0001
7678	SLD 6	-0.19641	-0.15167	-0.76491	0.0277	-0.0042	0.0001
7678	SLD 7	-0.19764	0.14408	-0.62904	0.0066	-0.0042	-0.0001
7678	SLD 8	-0.19764	0.14408	-0.62904	0.0066	-0.0042	-0.0001
7678	SLD 9	0.1521	-0.15169	-0.76652	0.0279	-0.0002	0.0001
7678	SLD 10	0.1521	-0.15169	-0.76652	0.0279	-0.0002	0.0001
7678	SLD 11	0.15087	0.14406	-0.63065	0.0068	-0.0003	-0.0001
7678	SLD 12	0.15087	0.14406	-0.63065	0.0068	-0.0003	-0.0001
7678	SLD 13	0.55825	-0.0482	-0.72084	0.0206	0.0043	0
7678	SLD 14	0.55825	-0.0482	-0.72084	0.0206	0.0043	0
7678	SLD 15	0.55788	0.04053	-0.68008	0.0143	0.0043	0
7678	SLD 16	0.55788	0.04053	-0.68008	0.0143	0.0043	0
7678	SLV 1	-1.05682	-0.08275	-0.72931	0.0225	-0.0138	0.0001
7678	SLV 2	-1.05682	-0.08275	-0.72931	0.0225	-0.0138	0.0001
7678	SLV 3	-1.05748	0.07526	-0.65672	0.0112	-0.0138	0
7678	SLV 4	-1.05748	0.07526	-0.65672	0.0112	-0.0138	0
7678	SLV 5	-0.33199	-0.26712	-0.81733	0.0359	-0.0057	0.0002
7678	SLV 6	-0.33199	-0.26712	-0.81733	0.0359	-0.0057	0.0002
7678	SLV 7	-0.33418	0.25955	-0.57537	-0.0017	-0.0057	-0.0002
7678	SLV 8	-0.33418	0.25955	-0.57537	-0.0017	-0.0057	-0.0002
7678	SLV 9	0.28864	-0.26716	-0.82019	0.0362	0.0013	0.0002
7678	SLV 10	0.28864	-0.26716	-0.82019	0.0362	0.0013	0.0002
7678	SLV 11	0.28645	0.25952	-0.57823	-0.0014	0.0013	-0.0002
7678	SLV 12	0.28645	0.25952	-0.57823	-0.0014	0.0013	-0.0002
7678	SLV 13	1.01193	-0.08286	-0.73884	0.0233	0.0094	0
7678	SLV 14	1.01193	-0.08286	-0.73884	0.0233	0.0094	0
7678	SLV 15	1.01128	0.07514	-0.66626	0.012	0.0094	-0.0001
7678	SLV 16	1.01128	0.07514	-0.66626	0.012	0.0094	-0.0001
7678	SLV FO 1	-1.16022	-0.09064	-0.73246	0.023	-0.015	0.0001
7678	SLV FO 2	-1.16022	-0.09064	-0.73246	0.023	-0.015	0.0001
7678	SLV FO 3	-1.16095	0.08316	-0.65261	0.0106	-0.015	0
7678	SLV FO 4	-1.16095	0.08316	-0.65261	0.0106	-0.015	0
7678	SLV FO 5	-0.36291	-0.29346	-0.82929	0.0378	-0.006	0.0002
7678	SLV FO 6	-0.36291	-0.29346	-0.82929	0.0378	-0.006	0.0002
7678	SLV FO 7	-0.36532	0.28589	-0.56313	-0.0036	-0.0061	-0.0002
7678	SLV FO 8	-0.36532	0.28589	-0.56313	-0.0036	-0.0061	-0.0002
7678	SLV FO 9	0.31978	-0.29349	-0.83244	0.0381	0.0017	0.0002
7678	SLV FO 10	0.31978	-0.29349	-0.83244	0.0381	0.0017	0.0002
7678	SLV FO 11	0.31737	0.28585	-0.56628	-0.0033	0.0016	-0.0002
7678	SLV FO 12	0.31737	0.28585	-0.56628	-0.0033	0.0016	-0.0002
7678	SLV FO 13	1.1154	-0.09077	-0.74295	0.0239	0.0106	0
7678	SLV FO 14	1.1154	-0.09077	-0.74295	0.0239	0.0106	0
7678	SLV FO 15	1.11468	0.08303	-0.6631	0.0115	0.0106	-0.0001
7678	SLV FO 16	1.11468	0.08303	-0.6631	0.0115	0.0106	-0.0001
7685	SLU 1	-0.01869	-0.00294	-0.68639	0.0131	0.0076	0.0002
7685	SLU 2	-0.01865	-0.00338	-0.69514	0.0152	0.0097	0.0002
7685	SLU 3	-0.02193	-0.00341	-0.7307	0.0151	0.0086	0.0002
7685	SLU 4	-0.02338	-0.00299	-0.73719	0.0131	0.0061	0.0002
7685	SLU 5	-0.02336	-0.00321	-0.74157	0.0141	0.0071	0.0002
7685	SLU 6	-0.0243	-0.00383	-0.8923	0.017	0.0099	0.0002
7685	SLU 7	-0.02426	-0.00426	-0.90105	0.0191	0.012	0.0003
7685	SLU 8	-0.02754	-0.00429	-0.93662	0.0191	0.0109	0.0003
7685	SLU 9	-0.02899	-0.00387	-0.94311	0.017	0.0083	0.0002
7685	SLU 10	-0.02897	-0.00409	-0.94748	0.018	0.0094	0.0003
7685	SLE RA 1	-0.01869	-0.00294	-0.68639	0.0131	0.0076	0.0002
7685	SLE RA 2	-0.01866	-0.00323	-0.69222	0.0145	0.009	0.0002
7685	SLE RA 3	-0.02085	-0.00325	-0.71593	0.0145	0.0083	0.0002
7685	SLE RA 4	-0.02182	-0.00298	-0.72026	0.0131	0.0066	0.0002
7685	SLE RA 5	-0.0218	-0.00312	-0.72317	0.0138	0.0073	0.0002
7685	SLE FR 1	-0.01869	-0.00294	-0.68639	0.0131	0.0076	0.0002
7685	SLE FR 2	-0.01869	-0.003	-0.68755	0.0134	0.0079	0.0002

Nodo	Cont.	Spostamento			Rotazione		
Ind.	N.br.	ux	uy	uz	rx	ry	rz
7685	SLE FR 3	-0.02056	-0.00302	-0.70788	0.0134	0.0073	0.0002
7685	SLE FR 4	-0.02088	-0.00297	-0.7101	0.0131	0.0069	0.0002
7685	SLE QP 1	-0.01869	-0.00294	-0.68639	0.0131	0.0076	0.0002
7685	SLE QP 2	-0.02057	-0.00296	-0.70671	0.0131	0.007	0.0002
7685	SLD 1	-0.60322	-0.04761	-0.77468	0.0164	-0.0091	0.0003
7685	SLD 2	-0.60322	-0.04761	-0.77468	0.0164	-0.0091	0.0003
7685	SLD 3	-0.603	0.04151	-0.73907	0.01	-0.009	0.0003
7685	SLD 4	-0.603	0.04151	-0.73907	0.01	-0.009	0.0003
7685	SLD 5	-0.19569	-0.15152	-0.78112	0.0237	0.0021	0.0002
7685	SLD 6	-0.19569	-0.15152	-0.78112	0.0237	0.0021	0.0002
7685	SLD 7	-0.19497	0.14554	-0.6624	0.0026	0.0022	0.0003
7685	SLD 8	-0.19497	0.14554	-0.6624	0.0026	0.0022	0.0003
7685	SLD 9	0.15384	-0.15147	-0.75102	0.0236	0.0118	0.0001
7685	SLD 10	0.15384	-0.15147	-0.75102	0.0236	0.0118	0.0001
7685	SLD 11	0.15456	0.14559	-0.6323	0.0025	0.0119	0.0002
7685	SLD 12	0.15456	0.14559	-0.6323	0.0025	0.0119	0.0002
7685	SLD 13	0.56187	-0.04744	-0.67435	0.0161	0.0231	0
7685	SLD 14	0.56187	-0.04744	-0.67435	0.0161	0.0231	0
7685	SLD 15	0.56209	0.04168	-0.63874	0.0098	0.0231	0
7685	SLD 16	0.56209	0.04168	-0.63874	0.0098	0.0231	0
7685	SLV 1	-1.05817	-0.08247	-0.82775	0.0189	-0.0216	0.0004
7685	SLV 2	-1.05817	-0.08247	-0.82775	0.0189	-0.0216	0.0004
7685	SLV 3	-1.05779	0.07624	-0.76433	0.0076	-0.0216	0.0005
7685	SLV 4	-1.05779	0.07624	-0.76433	0.0076	-0.0216	0.0005
7685	SLV 5	-0.33243	-0.26751	-0.83921	0.0319	-0.0017	0.0002
7685	SLV 6	-0.33243	-0.26751	-0.83921	0.0319	-0.0017	0.0002
7685	SLV 7	-0.33115	0.2615	-0.62781	-0.0057	-0.0015	0.0003
7685	SLV 8	-0.33115	0.2615	-0.62781	-0.0057	-0.0015	0.0003
7685	SLV 9	0.29001	-0.26742	-0.78561	0.0318	0.0155	0
7685	SLV 10	0.29001	-0.26742	-0.78561	0.0318	0.0155	0
7685	SLV 11	0.2913	0.26159	-0.57421	-0.0058	0.0157	0.0002
7685	SLV 12	0.2913	0.26159	-0.57421	-0.0058	0.0157	0.0002
7685	SLV 13	1.01665	-0.08216	-0.64909	0.0185	0.0356	-0.0001
7685	SLV 14	1.01665	-0.08216	-0.64909	0.0185	0.0356	-0.0001
7685	SLV 15	1.01704	0.07654	-0.58567	0.0073	0.0356	-0.0001
7685	SLV 16	1.01704	0.07654	-0.58567	0.0073	0.0356	-0.0001
7685	SLV FO 1	-1.16193	-0.09042	-0.83986	0.0195	-0.0245	0.0005
7685	SLV FO 2	-1.16193	-0.09042	-0.83986	0.0195	-0.0245	0.0005
7685	SLV FO 3	-1.16151	0.08416	-0.77009	0.0071	-0.0244	0.0005
7685	SLV FO 4	-1.16151	0.08416	-0.77009	0.0071	-0.0244	0.0005
7685	SLV FO 5	-0.36362	-0.29397	-0.85246	0.0338	-0.0025	0.0002
7685	SLV FO 6	-0.36362	-0.29397	-0.85246	0.0338	-0.0025	0.0002
7685	SLV FO 7	-0.36221	0.28794	-0.61992	-0.0075	-0.0024	0.0003
7685	SLV FO 8	-0.36221	0.28794	-0.61992	-0.0075	-0.0024	0.0003
7685	SLV FO 9	0.32107	-0.29387	-0.7935	0.0337	0.0164	0
7685	SLV FO 10	0.32107	-0.29387	-0.7935	0.0337	0.0164	0
7685	SLV FO 11	0.32249	0.28804	-0.56096	-0.0077	0.0165	0.0002
7685	SLV FO 12	0.32249	0.28804	-0.56096	-0.0077	0.0165	0.0002
7685	SLV FO 13	1.12037	-0.09008	-0.64333	0.0191	0.0385	-0.0001
7685	SLV FO 14	1.12037	-0.09008	-0.64333	0.0191	0.0385	-0.0001
7685	SLV FO 15	1.1208	0.08449	-0.57356	0.0067	0.0385	-0.0001
7685	SLV FO 16	1.1208	0.08449	-0.57356	0.0067	0.0385	-0.0001
7686	SLU 1	-0.02096	-0.00373	-0.66647	0.0162	-0.002	0
7686	SLU 2	-0.02139	-0.00427	-0.67559	0.0188	-0.0025	0
7686	SLU 3	-0.02451	-0.00431	-0.70604	0.0188	-0.0024	0
7686	SLU 4	-0.02541	-0.00379	-0.70998	0.0162	-0.0019	0
7686	SLU 5	-0.02563	-0.00406	-0.71454	0.0175	-0.0021	0
7686	SLU 6	-0.02724	-0.00485	-0.86642	0.0211	-0.0026	0
7686	SLU 7	-0.02768	-0.00539	-0.87553	0.0237	-0.0031	0
7686	SLU 8	-0.0308	-0.00543	-0.90599	0.0237	-0.003	0
7686	SLU 9	-0.0317	-0.00491	-0.90992	0.0211	-0.0025	0
7686	SLU 10	-0.03192	-0.00518	-0.91448	0.0224	-0.0028	0
7686	SLE RA 1	-0.02096	-0.00373	-0.66647	0.0162	-0.002	0
7686	SLE RA 2	-0.02125	-0.00409	-0.67255	0.018	-0.0023	0
7686	SLE RA 3	-0.02332	-0.00412	-0.69285	0.018	-0.0023	0
7686	SLE RA 4	-0.02393	-0.00377	-0.69548	0.0162	-0.002	0
7686	SLE RA 5	-0.02407	-0.00395	-0.69852	0.0171	-0.0021	0
7686	SLE FR 1	-0.02096	-0.00373	-0.66647	0.0162	-0.002	0
7686	SLE FR 2	-0.02101	-0.00381	-0.66769	0.0166	-0.0021	0
7686	SLE FR 3	-0.0228	-0.00383	-0.68509	0.0166	-0.002	0
7686	SLE FR 4	-0.02304	-0.00376	-0.68678	0.0162	-0.002	0
7686	SLE QP 1	-0.02096	-0.00373	-0.66647	0.0162	-0.002	0
7686	SLE QP 2	-0.02274	-0.00376	-0.68388	0.0162	-0.002	0
7686	SLD 1	-0.60363	-0.04809	-0.69916	0.0192	-0.0098	0.0002
7686	SLD 2	-0.60363	-0.04809	-0.69916	0.0192	-0.0098	0.0002
7686	SLD 3	-0.60396	0.04062	-0.66356	0.0129	-0.0098	0.0002
7686	SLD 4	-0.60396	0.04062	-0.66356	0.0129	-0.0098	0.0002
7686	SLD 5	-0.19652	-0.15161	-0.74245	0.0267	-0.0043	0.0001
7686	SLD 6	-0.19652	-0.15161	-0.74245	0.0267	-0.0043	0.0001
7686	SLD 7	-0.1976	0.14411	-0.62379	0.0056	-0.0043	0
7686	SLD 8	-0.1976	0.14411	-0.62379	0.0056	-0.0043	0
7686	SLD 9	0.15212	-0.15162	-0.74396	0.0268	0.0004	0
7686	SLD 10	0.15212	-0.15162	-0.74396	0.0268	0.0004	0
7686	SLD 11	0.15104	0.14409	-0.6253	0.0057	0.0003	-0.0002
7686	SLD 12	0.15104	0.14409	-0.6253	0.0057	0.0003	-0.0002
7686	SLD 13	0.55848	-0.04814	-0.70419	0.0196	0.0058	-0.0002
7686	SLD 14	0.55848	-0.04814	-0.70419	0.0196	0.0058	-0.0002
7686	SLD 15	0.55815	0.04058	-0.66859	0.0132	0.0058	-0.0002
7686	SLD 16	0.55815	0.04058	-0.66859	0.0132	0.0058	-0.0002
7686	SLV 1	-1.05721	-0.08271	-0.71109	0.0216	-0.0159	0.0004
7686	SLV 2	-1.05721	-0.08271	-0.71109	0.0216	-0.0159	0.0004
7686	SLV 3	-1.05779	0.07528	-0.6477	0.0103	-0.0159	0.0003
7686	SLV 4	-1.05779	0.07528	-0.6477	0.0103	-0.0159	0.0003
7686	SLV 5	-0.33221	-0.26705	-0.78819	0.0349	-0.0061	0.0003
7686	SLV 6	-0.33221	-0.26705	-0.78819	0.0349	-0.0061	0.0003
7686	SLV 7	-0.33413	0.25957	-0.57688	-0.0026	-0.0062	-0.0001
7686	SLV 8	-0.33413	0.25957	-0.57688	-0.0026	-0.0062	-0.0001
7686	SLV 9	0.28865	-0.26708	-0.79088	0.0351	0.0022	0.0001

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Ind.	N.br.	ux	uy	uz	rx	ry	rz
7686	SLV 10	0.28865	-0.26708	-0.79088	0.0351	0.0022	0.0001
7686	SLV 11	0.28673	0.25954	-0.57956	-0.0025	0.0022	-0.0003
7686	SLV 12	0.28673	0.25954	-0.57956	-0.0025	0.0022	-0.0003
7686	SLV 13	1.01231	-0.08279	-0.72005	0.0222	0.0119	-0.0003
7686	SLV 14	1.01231	-0.08279	-0.72005	0.0222	0.0119	-0.0003
7686	SLV 15	1.01173	0.07519	-0.65666	0.0109	0.0119	-0.0004
7686	SLV 16	1.01173	0.07519	-0.65666	0.0109	0.0119	-0.0004
7686	SLV FO 1	-1.16066	-0.0906	-0.71381	0.0221	-0.0173	0.0004
7686	SLV FO 2	-1.16066	-0.0906	-0.71381	0.0221	-0.0173	0.0004
7686	SLV FO 3	-1.16129	0.08318	-0.64408	0.0097	-0.0173	0.0003
7686	SLV FO 4	-1.16129	0.08318	-0.64408	0.0097	-0.0173	0.0003
7686	SLV FO 5	-0.36316	-0.29338	-0.79862	0.0368	-0.0066	0.0003
7686	SLV FO 6	-0.36316	-0.29338	-0.79862	0.0368	-0.0066	0.0003
7686	SLV FO 7	-0.36527	0.2859	-0.56618	-0.0045	-0.0066	-0.0001
7686	SLV FO 8	-0.36527	0.2859	-0.56618	-0.0045	-0.0066	-0.0001
7686	SLV FO 9	0.31979	-0.29341	-0.80158	0.037	0.0026	0.0001
7686	SLV FO 10	0.31979	-0.29341	-0.80158	0.037	0.0026	0.0001
7686	SLV FO 11	0.31768	0.28587	-0.56913	-0.0043	0.0026	-0.0003
7686	SLV FO 12	0.31768	0.28587	-0.56913	-0.0043	0.0026	-0.0003
7686	SLV FO 13	1.11581	-0.0907	-0.72367	0.0228	0.0133	-0.0003
7686	SLV FO 14	1.11581	-0.0907	-0.72367	0.0228	0.0133	-0.0003
7686	SLV FO 15	1.11518	0.08309	-0.65394	0.0104	0.0133	-0.0005
7686	SLV FO 16	1.11518	0.08309	-0.65394	0.0104	0.0133	-0.0005
7696	SLU 1	-0.02326	-0.00143	-0.65489	0.0053	-0.0077	0.0002
7696	SLU 2	-0.02401	-0.00163	-0.66204	0.0062	-0.0095	0.0002
7696	SLU 3	-0.0271	-0.00166	-0.69367	0.0062	-0.0088	0.0002
7696	SLU 4	-0.02767	-0.00147	-0.70007	0.0053	-0.0066	0.0002
7696	SLU 5	-0.02805	-0.00157	-0.70365	0.0057	-0.0076	0.0002
7696	SLU 6	-0.03024	-0.00186	-0.85136	0.007	-0.01	0.0002
7696	SLU 7	-0.03099	-0.00206	-0.85851	0.0078	-0.0118	0.0002
7696	SLU 8	-0.03407	-0.00209	-0.89014	0.0078	-0.0111	0.0002
7696	SLU 9	-0.03465	-0.0019	-0.89654	0.0069	-0.0089	0.0002
7696	SLU 10	-0.03503	-0.002	-0.90012	0.0073	-0.0098	0.0002
7696	SLE RA 1	-0.02326	-0.00143	-0.65489	0.0053	-0.0077	0.0002
7696	SLE RA 2	-0.02376	-0.00157	-0.65966	0.0059	-0.0089	0.0002
7696	SLE RA 3	-0.02582	-0.00159	-0.68074	0.0059	-0.0084	0.0002
7696	SLE RA 4	-0.0262	-0.00146	-0.68501	0.0053	-0.007	0.0002
7696	SLE RA 5	-0.02645	-0.00153	-0.6874	0.0056	-0.0076	0.0002
7696	SLE FR 1	-0.02326	-0.00143	-0.65489	0.0053	-0.0077	0.0002
7696	SLE FR 2	-0.02336	-0.00146	-0.65584	0.0055	-0.0079	0.0002
7696	SLE FR 3	-0.02513	-0.00147	-0.67392	0.0055	-0.0075	0.0002
7696	SLE FR 4	-0.02532	-0.00145	-0.67598	0.0053	-0.0072	0.0002
7696	SLE QP 1	-0.02326	-0.00143	-0.65489	0.0053	-0.0077	0.0002
7696	SLE QP 2	-0.02503	-0.00145	-0.67296	0.0053	-0.0073	0.0002
7696	SLD 1	-0.60699	-0.04503	-0.69104	0.0083	-0.0224	0.0001
7696	SLD 2	-0.60699	-0.04503	-0.69104	0.0083	-0.0224	0.0001
7696	SLD 3	-0.60745	0.04231	-0.66119	0.002	-0.0225	0
7696	SLD 4	-0.60745	0.04231	-0.66119	0.002	-0.0225	0
7696	SLD 5	-0.19892	-0.14699	-0.72365	0.0156	-0.0118	0.0003
7696	SLD 6	-0.19892	-0.14699	-0.72365	0.0156	-0.0118	0.0003
7696	SLD 7	-0.20045	0.14415	-0.62417	-0.0051	-0.0118	0
7696	SLD 8	-0.20045	0.14415	-0.62417	-0.0051	-0.0118	0
7696	SLD 9	0.1504	-0.14704	-0.72176	0.0158	-0.0027	0.0004
7696	SLD 10	0.1504	-0.14704	-0.72176	0.0158	-0.0027	0.0004
7696	SLD 11	0.14887	0.14409	-0.62228	-0.005	-0.0027	0.0001
7696	SLD 12	0.14887	0.14409	-0.62228	-0.005	-0.0027	0.0001
7696	SLD 13	0.5574	-0.0452	-0.68474	0.0086	0.008	0.0004
7696	SLD 14	0.5574	-0.0452	-0.68474	0.0086	0.008	0.0004
7696	SLD 15	0.55694	0.04214	-0.65489	0.0024	0.0079	0.0003
7696	SLD 16	0.55694	0.04214	-0.65489	0.0024	0.0079	0.0003
7696	SLV 1	-1.06141	-0.07906	-0.70515	0.0105	-0.0343	0
7696	SLV 2	-1.06141	-0.07906	-0.70515	0.0105	-0.0343	0
7696	SLV 3	-1.06223	0.07648	-0.65201	-0.0005	-0.0344	-0.0002
7696	SLV 4	-1.06223	0.07648	-0.65201	-0.0005	-0.0344	-0.0002
7696	SLV 5	-0.3347	-0.26063	-0.76322	0.0237	-0.0153	0.0004
7696	SLV 6	-0.3347	-0.26063	-0.76322	0.0237	-0.0153	0.0004
7696	SLV 7	-0.33743	0.25783	-0.58608	-0.0132	-0.0154	-0.0002
7696	SLV 8	-0.33743	0.25783	-0.58608	-0.0132	-0.0154	-0.0002
7696	SLV 9	0.28737	-0.26072	-0.75985	0.0239	0.0009	0.0006
7696	SLV 10	0.28737	-0.26072	-0.75985	0.0239	0.0009	0.0006
7696	SLV 11	0.28465	0.25774	-0.58271	-0.013	0.0008	0
7696	SLV 12	0.28465	0.25774	-0.58271	-0.013	0.0008	0
7696	SLV 13	1.01218	-0.07937	-0.69392	0.0112	0.0198	0.0005
7696	SLV 14	1.01218	-0.07937	-0.69392	0.0112	0.0198	0.0005
7696	SLV 15	1.01136	0.07617	-0.64078	0.0002	0.0198	0.0004
7696	SLV 16	1.01136	0.07617	-0.64078	0.0002	0.0198	0.0004
7696	SLV FO 1	-1.16505	-0.08682	-0.70837	0.011	-0.037	0
7696	SLV FO 2	-1.16505	-0.08682	-0.70837	0.011	-0.037	0
7696	SLV FO 3	-1.16595	0.08427	-0.64992	-0.0011	-0.0371	-0.0002
7696	SLV FO 4	-1.16595	0.08427	-0.64992	-0.0011	-0.0371	-0.0002
7696	SLV FO 5	-0.36567	-0.28655	-0.77225	0.0255	-0.0161	0.0004
7696	SLV FO 6	-0.36567	-0.28655	-0.77225	0.0255	-0.0161	0.0004
7696	SLV FO 7	-0.36867	0.28376	-0.57739	-0.0151	-0.0162	-0.0002
7696	SLV FO 8	-0.36867	0.28376	-0.57739	-0.0151	-0.0162	-0.0002
7696	SLV FO 9	0.31861	-0.28665	-0.76854	0.0258	0.0017	0.0006
7696	SLV FO 10	0.31861	-0.28665	-0.76854	0.0258	0.0017	0.0006
7696	SLV FO 11	0.31562	0.28366	-0.57368	-0.0148	0.0016	-0.0001
7696	SLV FO 12	0.31562	0.28366	-0.57368	-0.0148	0.0016	-0.0001
7696	SLV FO 13	1.1159	-0.08717	-0.69601	0.0118	0.0226	0.0006
7696	SLV FO 14	1.1159	-0.08717	-0.69601	0.0118	0.0226	0.0006
7696	SLV FO 15	1.115	0.08393	-0.63756	-0.0004	0.0225	0.0004
7696	SLV FO 16	1.115	0.08393	-0.63756	-0.0004	0.0225	0.0004
7712	SLU 1	-0.0227	-0.00041	-0.6529	0.0004	-0.0038	-0.0005
7712	SLU 2	-0.02337	-0.00045	-0.65975	0.0004	-0.0051	-0.0005
7712	SLU 3	-0.02645	-0.00049	-0.6914	0.0004	-0.0045	-0.0005
7712	SLU 4	-0.02711	-0.00046	-0.69811	0.0004	-0.0028	-0.0005
7712	SLU 5	-0.02744	-0.00048	-0.70154	0.0004	-0.0035	-0.0005
7712	SLU 6	-0.02951	-0.00054	-0.84877	0.0005	-0.0049	-0.0006

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Ind.	N.br.	ux	uy	uz	rx	ry	rz
7712	SLU 7	-0.03018	-0.00058	-0.85562	0.0005	-0.0062	-0.0007
7712	SLU 8	-0.03326	-0.00061	-0.88727	0.0006	-0.0056	-0.0007
7712	SLU 9	-0.03392	-0.00059	-0.89398	0.0005	-0.004	-0.0006
7712	SLU 10	-0.03425	-0.00061	-0.89741	0.0005	-0.0047	-0.0006
7712	SLE RA 1	-0.0227	-0.00041	-0.6529	0.0004	-0.0038	-0.0005
7712	SLE RA 2	-0.02314	-0.00044	-0.65746	0.0004	-0.0047	-0.0005
7712	SLE RA 3	-0.0252	-0.00046	-0.67856	0.0004	-0.0042	-0.0005
7712	SLE RA 4	-0.02564	-0.00045	-0.68304	0.0004	-0.0031	-0.0005
7712	SLE RA 5	-0.02586	-0.00046	-0.68532	0.0004	-0.0036	-0.0005
7712	SLE FR 1	-0.0227	-0.00041	-0.6529	0.0004	-0.0038	-0.0005
7712	SLE FR 2	-0.02279	-0.00042	-0.65381	0.0004	-0.0039	-0.0005
7712	SLE FR 3	-0.02455	-0.00044	-0.6719	0.0004	-0.0036	-0.0005
7712	SLE FR 4	-0.02476	-0.00044	-0.674	0.0004	-0.0033	-0.0005
7712	SLE QP 1	-0.0227	-0.00041	-0.6529	0.0004	-0.0038	-0.0005
7712	SLE QP 2	-0.02446	-0.00043	-0.67098	0.0004	-0.0034	-0.0005
7712	SLD 1	-0.60705	-0.04403	-0.68344	0.0034	-0.0217	0.0001
7712	SLD 2	-0.60705	-0.04403	-0.68344	0.0034	-0.0217	0.0001
7712	SLD 3	-0.60732	0.04326	-0.66495	-0.0027	-0.0217	0
7712	SLD 4	-0.60732	0.04326	-0.66495	-0.0027	-0.0217	0
7712	SLD 5	-0.19882	-0.14591	-0.70276	0.0106	-0.0089	-0.0002
7712	SLD 6	-0.19882	-0.14591	-0.70276	0.0106	-0.0089	-0.0002
7712	SLD 7	-0.19973	0.14507	-0.64113	-0.0099	-0.0089	-0.0005
7712	SLD 8	-0.19973	0.14507	-0.64113	-0.0099	-0.0089	-0.0005
7712	SLD 9	0.15081	-0.14594	-0.70084	0.0106	0.0021	-0.0005
7712	SLD 10	0.15081	-0.14594	-0.70084	0.0106	0.0021	-0.0005
7712	SLD 11	0.1499	0.14504	-0.6392	-0.0098	0.0021	-0.0008
7712	SLD 12	0.1499	0.14504	-0.6392	-0.0098	0.0021	-0.0008
7712	SLD 13	0.5584	-0.04413	-0.67701	0.0035	0.0149	-0.0009
7712	SLD 14	0.5584	-0.04413	-0.67701	0.0035	0.0149	-0.0009
7712	SLD 15	0.55812	0.04316	-0.65852	-0.0026	0.0149	-0.001
7712	SLD 16	0.55812	0.04316	-0.65852	-0.0026	0.0149	-0.001
7712	SLV 1	-1.06195	-0.07807	-0.69318	0.0058	-0.036	0.0005
7712	SLV 2	-1.06195	-0.07807	-0.69318	0.0058	-0.036	0.0005
7712	SLV 3	-1.06243	0.07738	-0.66025	-0.0051	-0.036	0.0004
7712	SLV 4	-1.06243	0.07738	-0.66025	-0.0051	-0.036	0.0004
7712	SLV 5	-0.33497	-0.2595	-0.72758	0.0186	-0.0131	0.0001
7712	SLV 6	-0.33497	-0.2595	-0.72758	0.0186	-0.0131	0.0001
7712	SLV 7	-0.33659	0.25868	-0.61782	-0.0179	-0.0132	-0.0005
7712	SLV 8	-0.33659	0.25868	-0.61782	-0.0179	-0.0132	-0.0005
7712	SLV 9	0.28767	-0.25955	-0.72414	0.0186	0.0064	-0.0005
7712	SLV 10	0.28767	-0.25955	-0.72414	0.0186	0.0064	-0.0005
7712	SLV 11	0.28605	0.25863	-0.61438	-0.0178	0.0064	-0.001
7712	SLV 12	0.28605	0.25863	-0.61438	-0.0178	0.0064	-0.001
7712	SLV 13	1.01351	-0.07825	-0.68171	0.0059	0.0292	-0.0013
7712	SLV 14	1.01351	-0.07825	-0.68171	0.0059	0.0292	-0.0013
7712	SLV 15	1.01303	0.0772	-0.64878	-0.005	0.0292	-0.0015
7712	SLV 16	1.01303	0.0772	-0.64878	-0.005	0.0292	-0.0015
7712	SLV FO 1	-1.1657	-0.08583	-0.6954	0.0063	-0.0392	0.0007
7712	SLV FO 2	-1.1657	-0.08583	-0.6954	0.0063	-0.0392	0.0007
7712	SLV FO 3	-1.16623	0.08517	-0.65918	-0.0057	-0.0393	0.0005
7712	SLV FO 4	-1.16623	0.08517	-0.65918	-0.0057	-0.0393	0.0005
7712	SLV FO 5	-0.36602	-0.2854	-0.73324	0.0204	-0.0141	0.0001
7712	SLV FO 6	-0.36602	-0.2854	-0.73324	0.0204	-0.0141	0.0001
7712	SLV FO 7	-0.3678	0.2846	-0.61251	-0.0197	-0.0142	-0.0005
7712	SLV FO 8	-0.3678	0.2846	-0.61251	-0.0197	-0.0142	-0.0005
7712	SLV FO 9	0.31888	-0.28546	-0.72946	0.0205	0.0074	-0.0005
7712	SLV FO 10	0.31888	-0.28546	-0.72946	0.0205	0.0074	-0.0005
7712	SLV FO 11	0.3171	0.28454	-0.60872	-0.0196	0.0073	-0.0011
7712	SLV FO 12	0.3171	0.28454	-0.60872	-0.0196	0.0073	-0.0011
7712	SLV FO 13	1.11731	-0.08603	-0.68279	0.0065	0.0325	-0.0014
7712	SLV FO 14	1.11731	-0.08603	-0.68279	0.0065	0.0325	-0.0014
7712	SLV FO 15	1.11678	0.08497	-0.64656	-0.0055	0.0325	-0.0016
7712	SLV FO 16	1.11678	0.08497	-0.64656	-0.0055	0.0325	-0.0016
7720	SLU 1	-0.02246	-0.0003	-0.65267	0.0002	-0.0028	0
7720	SLU 2	-0.0231	-0.00033	-0.6595	0.0002	-0.004	0
7720	SLU 3	-0.0262	-0.00036	-0.69115	0.0002	-0.0035	0
7720	SLU 4	-0.02688	-0.00035	-0.69788	0.0002	-0.002	0
7720	SLU 5	-0.0272	-0.00036	-0.70129	0.0002	-0.0026	0
7720	SLU 6	-0.0292	-0.00039	-0.84847	0.0003	-0.0036	0
7720	SLU 7	-0.02984	-0.00042	-0.8553	0.0003	-0.0049	0
7720	SLU 8	-0.03293	-0.00045	-0.88695	0.0003	-0.0043	0
7720	SLU 9	-0.03362	-0.00044	-0.89368	0.0003	-0.0028	0
7720	SLU 10	-0.03394	-0.00045	-0.8971	0.0003	-0.0034	0
7720	SLE RA 1	-0.02246	-0.0003	-0.65267	0.0002	-0.0028	0
7720	SLE RA 2	-0.02289	-0.00032	-0.65722	0.0002	-0.0036	0
7720	SLE RA 3	-0.02495	-0.00034	-0.67832	0.0002	-0.0032	0
7720	SLE RA 4	-0.02541	-0.00033	-0.68281	0.0002	-0.0022	0
7720	SLE RA 5	-0.02562	-0.00034	-0.68509	0.0002	-0.0027	0
7720	SLE FR 1	-0.02246	-0.0003	-0.65267	0.0002	-0.0028	0
7720	SLE FR 2	-0.02255	-0.00031	-0.65358	0.0002	-0.003	0
7720	SLE FR 3	-0.02431	-0.00033	-0.67167	0.0002	-0.0026	0
7720	SLE FR 4	-0.02452	-0.00032	-0.67377	0.0002	-0.0024	0
7720	SLE QP 1	-0.02246	-0.0003	-0.65267	0.0002	-0.0028	0
7720	SLE QP 2	-0.02423	-0.00032	-0.67076	0.0002	-0.0025	0
7720	SLD 1	-0.60711	-0.04391	-0.68059	0.0032	-0.0215	0.0001
7720	SLD 2	-0.60711	-0.04391	-0.68059	0.0032	-0.0215	0.0001
7720	SLD 3	-0.6073	0.04336	-0.6674	-0.0029	-0.0215	0
7720	SLD 4	-0.6073	0.04336	-0.6674	-0.0029	-0.0215	0
7720	SLD 5	-0.1988	-0.14576	-0.69371	0.0104	-0.0082	0.0002
7720	SLD 6	-0.1988	-0.14576	-0.69371	0.0104	-0.0082	0.0002
7720	SLD 7	-0.19944	0.14515	-0.64974	-0.01	-0.0082	-0.0001
7720	SLD 8	-0.19944	0.14515	-0.64974	-0.01	-0.0082	-0.0001
7720	SLD 9	0.15099	-0.14579	-0.69177	0.0104	0.0033	0.0002
7720	SLD 10	0.15099	-0.14579	-0.69177	0.0104	0.0033	0.0002
7720	SLD 11	0.15034	0.14512	-0.6478	-0.01	0.0032	-0.0001
7720	SLD 12	0.15034	0.14512	-0.6478	-0.01	0.0032	-0.0001
7720	SLD 13	0.55885	-0.044	-0.67411	0.0033	0.0166	0.0001
7720	SLD 14	0.55885	-0.044	-0.67411	0.0033	0.0166	0.0001

Nodo	Cont.	Spostamento			Rotazione		
Ind.	N.br.	ux	uy	uz	rx	ry	rz
7720	SLD 15	0.55866	0.04327	-0.66092	-0.0028	0.0166	0
7720	SLD 16	0.55866	0.04327	-0.66092	-0.0028	0.0166	0
7720	SLV 1	-1.06225	-0.07795	-0.68828	0.0056	-0.0364	0.0001
7720	SLV 2	-1.06225	-0.07795	-0.68828	0.0056	-0.0364	0.0001
7720	SLV 3	-1.06259	0.07747	-0.66479	-0.0053	-0.0365	-0.0001
7720	SLV 4	-1.06259	0.07747	-0.66479	-0.0053	-0.0365	-0.0001
7720	SLV 5	-0.33511	-0.25933	-0.71164	0.0183	-0.0126	0.0003
7720	SLV 6	-0.33511	-0.25933	-0.71164	0.0183	-0.0126	0.0003
7720	SLV 7	-0.33626	0.25873	-0.63334	-0.018	-0.0127	-0.0003
7720	SLV 8	-0.33626	0.25873	-0.63334	-0.018	-0.0127	-0.0003
7720	SLV 9	0.2878	-0.25938	-0.70817	0.0184	0.0078	0.0003
7720	SLV 10	0.2878	-0.25938	-0.70817	0.0184	0.0078	0.0003
7720	SLV 11	0.28665	0.25868	-0.62987	-0.0179	0.0077	-0.0003
7720	SLV 12	0.28665	0.25868	-0.62987	-0.0179	0.0077	-0.0003
7720	SLV 13	1.01413	-0.07811	-0.67672	0.0057	0.0315	0.0001
7720	SLV 14	1.01413	-0.07811	-0.67672	0.0057	0.0315	0.0001
7720	SLV 15	1.01379	0.07731	-0.65323	-0.0051	0.0315	-0.0001
7720	SLV 16	1.01379	0.07731	-0.65323	-0.0051	0.0315	-0.0001
7720	SLV FO 1	-1.16605	-0.08571	-0.69003	0.0061	-0.0398	0.0001
7720	SLV FO 2	-1.16605	-0.08571	-0.69003	0.0061	-0.0398	0.0001
7720	SLV FO 3	-1.16643	0.08525	-0.66419	-0.0059	-0.0399	-0.0001
7720	SLV FO 4	-1.16643	0.08525	-0.66419	-0.0059	-0.0399	-0.0001
7720	SLV FO 5	-0.3662	-0.28523	-0.71573	0.0201	-0.0137	0.0004
7720	SLV FO 6	-0.3662	-0.28523	-0.71573	0.0201	-0.0137	0.0004
7720	SLV FO 7	-0.36746	0.28464	-0.62959	-0.0198	-0.0137	-0.0003
7720	SLV FO 8	-0.36746	0.28464	-0.62959	-0.0198	-0.0137	-0.0003
7720	SLV FO 9	0.31901	-0.28528	-0.71192	0.0202	0.0088	0.0004
7720	SLV FO 10	0.31901	-0.28528	-0.71192	0.0202	0.0088	0.0004
7720	SLV FO 11	0.31774	0.28459	-0.62578	-0.0197	0.0087	-0.0003
7720	SLV FO 12	0.31774	0.28459	-0.62578	-0.0197	0.0087	-0.0003
7720	SLV FO 13	1.11797	-0.08589	-0.67732	0.0063	0.0349	0.0001
7720	SLV FO 14	1.11797	-0.08589	-0.67732	0.0063	0.0349	0.0001
7720	SLV FO 15	1.11759	0.08507	-0.65148	-0.0057	0.0349	-0.0001
7720	SLV FO 16	1.11759	0.08507	-0.65148	-0.0057	0.0349	-0.0001
7728	SLU 1	-0.02233	-0.00021	-0.65256	0.0001	-0.0018	-0.0001
7728	SLU 2	-0.02296	-0.00022	-0.65938	0.0001	-0.003	-0.0001
7728	SLU 3	-0.02606	-0.00025	-0.69102	0.0001	-0.0025	-0.0001
7728	SLU 4	-0.02676	-0.00024	-0.69776	0.0001	-0.0011	-0.0001
7728	SLU 5	-0.02707	-0.00025	-0.70117	0.0001	-0.0017	-0.0001
7728	SLU 6	-0.02903	-0.00027	-0.84833	0.0001	-0.0024	-0.0001
7728	SLU 7	-0.02966	-0.00028	-0.85515	0.0001	-0.0036	-0.0001
7728	SLU 8	-0.03276	-0.00031	-0.88679	0.0002	-0.003	-0.0001
7728	SLU 9	-0.03346	-0.0003	-0.89353	0.0002	-0.0016	-0.0001
7728	SLU 10	-0.03377	-0.00031	-0.89694	0.0002	-0.0022	-0.0001
7728	SLE RA 1	-0.02233	-0.00021	-0.65256	0.0001	-0.0018	-0.0001
7728	SLE RA 2	-0.02275	-0.00022	-0.65711	0.0001	-0.0026	-0.0001
7728	SLE RA 3	-0.02482	-0.00023	-0.6782	0.0001	-0.0023	-0.0001
7728	SLE RA 4	-0.02528	-0.00023	-0.68269	0.0001	-0.0013	-0.0001
7728	SLE RA 5	-0.02549	-0.00024	-0.68497	0.0001	-0.0017	-0.0001
7728	SLE FR 1	-0.02233	-0.00021	-0.65256	0.0001	-0.0018	-0.0001
7728	SLE FR 2	-0.02242	-0.00021	-0.65347	0.0001	-0.002	-0.0001
7728	SLE FR 3	-0.02419	-0.00022	-0.67155	0.0001	-0.0017	-0.0001
7728	SLE FR 4	-0.0244	-0.00022	-0.67365	0.0001	-0.0015	-0.0001
7728	SLE QP 1	-0.02233	-0.00021	-0.65256	0.0001	-0.0018	-0.0001
7728	SLE QP 2	-0.0241	-0.00022	-0.67064	0.0001	-0.0015	-0.0001
7728	SLD 1	-0.60717	-0.04382	-0.67785	0.0031	-0.0215	0.0001
7728	SLD 2	-0.60717	-0.04382	-0.67785	0.0031	-0.0215	0.0001
7728	SLD 3	-0.60729	0.04344	-0.66994	-0.003	-0.0215	0
7728	SLD 4	-0.60729	0.04344	-0.66994	-0.003	-0.0215	0
7728	SLD 5	-0.19885	-0.14564	-0.6848	0.0103	-0.0075	0.0001
7728	SLD 6	-0.19885	-0.14564	-0.6848	0.0103	-0.0075	0.0001
7728	SLD 7	-0.19923	0.14522	-0.65844	-0.0101	-0.0075	-0.0002
7728	SLD 8	-0.19923	0.14522	-0.65844	-0.0101	-0.0075	-0.0002
7728	SLD 9	0.15103	-0.14566	-0.68285	0.0103	0.0045	0.0001
7728	SLD 10	0.15103	-0.14566	-0.68285	0.0103	0.0045	0.0001
7728	SLD 11	0.15065	0.1452	-0.65648	-0.01	0.0044	-0.0003
7728	SLD 12	0.15065	0.1452	-0.65648	-0.01	0.0044	-0.0003
7728	SLD 13	0.55909	-0.04388	-0.67134	0.0032	0.0184	-0.0001
7728	SLD 14	0.55909	-0.04388	-0.67134	0.0032	0.0184	-0.0001
7728	SLD 15	0.55897	0.04338	-0.66343	-0.0029	0.0184	-0.0002
7728	SLD 16	0.55897	0.04338	-0.66343	-0.0029	0.0184	-0.0002
7728	SLV 1	-1.06246	-0.07786	-0.68349	0.0055	-0.037	0.0002
7728	SLV 2	-1.06246	-0.07786	-0.68349	0.0055	-0.037	0.0002
7728	SLV 3	-1.06266	0.07753	-0.6694	-0.0054	-0.0371	0
7728	SLV 4	-1.06266	0.07753	-0.6694	-0.0054	-0.0371	0
7728	SLV 5	-0.3353	-0.25919	-0.69586	0.0182	-0.0122	0.0003
7728	SLV 6	-0.3353	-0.25919	-0.69586	0.0182	-0.0122	0.0003
7728	SLV 7	-0.33598	0.25878	-0.64891	-0.018	-0.0122	-0.0003
7728	SLV 8	-0.33598	0.25878	-0.64891	-0.018	-0.0122	-0.0003
7728	SLV 9	0.28778	-0.25923	-0.69238	0.0182	0.0091	0.0002
7728	SLV 10	0.28778	-0.25923	-0.69238	0.0182	0.0091	0.0002
7728	SLV 11	0.2871	0.25875	-0.64542	-0.018	0.0091	-0.0004
7728	SLV 12	0.2871	0.25875	-0.64542	-0.018	0.0091	-0.0004
7728	SLV 13	1.01446	-0.07797	-0.67188	0.0056	0.034	-0.0002
7728	SLV 14	1.01446	-0.07797	-0.67188	0.0056	0.034	-0.0002
7728	SLV 15	1.01425	0.07742	-0.6578	-0.0053	0.034	-0.0004
7728	SLV 16	1.01425	0.07742	-0.6578	-0.0053	0.034	-0.0004
7728	SLV FO 1	-1.16629	-0.08563	-0.68477	0.006	-0.0406	0.0002
7728	SLV FO 2	-1.16629	-0.08563	-0.68477	0.006	-0.0406	0.0002
7728	SLV FO 3	-1.16652	0.08531	-0.66928	-0.0059	-0.0406	0
7728	SLV FO 4	-1.16652	0.08531	-0.66928	-0.0059	-0.0406	0
7728	SLV FO 5	-0.36642	-0.28509	-0.69838	0.02	-0.0132	0.0003
7728	SLV FO 6	-0.36642	-0.28509	-0.69838	0.02	-0.0132	0.0003
7728	SLV FO 7	-0.36717	0.28468	-0.64673	-0.0198	-0.0133	-0.0003
7728	SLV FO 8	-0.36717	0.28468	-0.64673	-0.0198	-0.0133	-0.0003
7728	SLV FO 9	0.31896	-0.28513	-0.69455	0.02	0.0102	0.0002
7728	SLV FO 10	0.31896	-0.28513	-0.69455	0.02	0.0102	0.0002
7728	SLV FO 11	0.31821	0.28465	-0.6429	-0.0198	0.0102	-0.0005

Nodo	Cont.	Spostamento			Rotazione		
Ind.	N.br.	ux	uy	uz	rx	ry	rz
7728	SLV FO 12	0.31821	0.28465	-0.6429	-0.0198	0.0102	-0.0005
7728	SLV FO 13	1.11832	-0.08575	-0.672	0.0061	0.0375	-0.0002
7728	SLV FO 14	1.11832	-0.08575	-0.672	0.0061	0.0375	-0.0002
7728	SLV FO 15	1.11809	0.08518	-0.65651	-0.0058	0.0375	-0.0004
7728	SLV FO 16	1.11809	0.08518	-0.65651	-0.0058	0.0375	-0.0004
7736	SLU 1	-0.02227	-0.00012	-0.65251	0	-0.0015	0
7736	SLU 2	-0.0229	-0.00013	-0.65933	0	-0.0026	0
7736	SLU 3	-0.026	-0.00014	-0.69096	0	-0.0021	0
7736	SLU 4	-0.0267	-0.00014	-0.6977	0	-0.0008	0
7736	SLU 5	-0.02701	-0.00014	-0.70111	0	-0.0014	0
7736	SLU 6	-0.02896	-0.00016	-0.84826	0	-0.002	0
7736	SLU 7	-0.02958	-0.00016	-0.85508	0.0001	-0.0031	0
7736	SLU 8	-0.03268	-0.00017	-0.88671	0.0001	-0.0026	0
7736	SLU 9	-0.03338	-0.00017	-0.89345	0.0001	-0.0012	0
7736	SLU 10	-0.03369	-0.00018	-0.89686	0.0001	-0.0018	0
7736	SLE RA 1	-0.02227	-0.00012	-0.65251	0	-0.0015	0
7736	SLE RA 2	-0.02269	-0.00012	-0.65705	0	-0.0023	0
7736	SLE RA 3	-0.02475	-0.00013	-0.67814	0	-0.0019	0
7736	SLE RA 4	-0.02523	-0.00013	-0.68264	0	-0.001	0
7736	SLE RA 5	-0.02543	-0.00013	-0.68491	0	-0.0014	0
7736	SLE FR 1	-0.02227	-0.00012	-0.65251	0	-0.0015	0
7736	SLE FR 2	-0.02236	-0.00012	-0.65342	0	-0.0017	0
7736	SLE FR 3	-0.02413	-0.00013	-0.67149	0	-0.0014	0
7736	SLE FR 4	-0.02434	-0.00013	-0.6736	0	-0.0012	0
7736	SLE QP 1	-0.02227	-0.00012	-0.65251	0	-0.0015	0
7736	SLE QP 2	-0.02404	-0.00013	-0.67059	0	-0.0012	0
7736	SLD 1	-0.60723	-0.04374	-0.67517	0.0031	-0.0215	0.0001
7736	SLD 2	-0.60723	-0.04374	-0.67517	0.0031	-0.0215	0.0001
7736	SLD 3	-0.60727	0.04352	-0.67253	-0.003	-0.0215	0
7736	SLD 4	-0.60727	0.04352	-0.67253	-0.003	-0.0215	0
7736	SLD 5	-0.19894	-0.14554	-0.67596	0.0102	-0.0073	0.0002
7736	SLD 6	-0.19894	-0.14554	-0.67596	0.0102	-0.0073	0.0002
7736	SLD 7	-0.19907	0.1453	-0.66717	-0.0101	-0.0073	-0.0002
7736	SLD 8	-0.19907	0.1453	-0.66717	-0.0101	-0.0073	-0.0002
7736	SLD 9	0.15098	-0.14555	-0.674	0.0102	0.0049	0.0002
7736	SLD 10	0.15098	-0.14555	-0.674	0.0102	0.0049	0.0002
7736	SLD 11	0.15085	0.14529	-0.66521	-0.0101	0.0048	-0.0002
7736	SLD 12	0.15085	0.14529	-0.66521	-0.0101	0.0048	-0.0002
7736	SLD 13	0.55918	-0.04377	-0.66864	0.0031	0.019	0.0001
7736	SLD 14	0.55918	-0.04377	-0.66864	0.0031	0.019	0.0001
7736	SLD 15	0.55914	0.04348	-0.66601	-0.003	0.019	0
7736	SLD 16	0.55914	0.04348	-0.66601	-0.003	0.019	0
7736	SLV 1	-1.0626	-0.07779	-0.67875	0.0054	-0.0373	0.0001
7736	SLV 2	-1.0626	-0.07779	-0.67875	0.0054	-0.0373	0.0001
7736	SLV 3	-1.06267	0.07759	-0.67405	-0.0054	-0.0373	-0.0001
7736	SLV 4	-1.06267	0.07759	-0.67405	-0.0054	-0.0373	-0.0001
7736	SLV 5	-0.33551	-0.25909	-0.68016	0.0181	-0.012	0.0003
7736	SLV 6	-0.33551	-0.25909	-0.68016	0.0181	-0.012	0.0003
7736	SLV 7	-0.33573	0.25885	-0.6645	-0.018	-0.012	-0.0003
7736	SLV 8	-0.33573	0.25885	-0.6645	-0.018	-0.012	-0.0003
7736	SLV 9	0.28764	-0.2591	-0.67667	0.0181	0.0096	0.0003
7736	SLV 10	0.28764	-0.2591	-0.67667	0.0181	0.0096	0.0003
7736	SLV 11	0.28742	0.25883	-0.66101	-0.018	0.0096	-0.0003
7736	SLV 12	0.28742	0.25883	-0.66101	-0.018	0.0096	-0.0003
7736	SLV 13	1.01458	-0.07785	-0.66712	0.0055	0.0348	0.0001
7736	SLV 14	1.01458	-0.07785	-0.66712	0.0055	0.0348	0.0001
7736	SLV 15	1.01451	0.07753	-0.66242	-0.0054	0.0348	-0.0001
7736	SLV 16	1.01451	0.07753	-0.66242	-0.0054	0.0348	-0.0001
7736	SLV FO 1	-1.16646	-0.08555	-0.67957	0.006	-0.0409	0.0001
7736	SLV FO 2	-1.16646	-0.08555	-0.67957	0.006	-0.0409	0.0001
7736	SLV FO 3	-1.16653	0.08537	-0.6744	-0.0059	-0.0409	-0.0001
7736	SLV FO 4	-1.16653	0.08537	-0.6744	-0.0059	-0.0409	-0.0001
7736	SLV FO 5	-0.36666	-0.28498	-0.68112	0.0199	-0.0131	0.0003
7736	SLV FO 6	-0.36666	-0.28498	-0.68112	0.0199	-0.0131	0.0003
7736	SLV FO 7	-0.3669	0.28475	-0.66389	-0.0198	-0.0131	-0.0003
7736	SLV FO 8	-0.3669	0.28475	-0.66389	-0.0198	-0.0131	-0.0003
7736	SLV FO 9	0.31881	-0.285	-0.67728	0.0199	0.0107	0.0003
7736	SLV FO 10	0.31881	-0.285	-0.67728	0.0199	0.0107	0.0003
7736	SLV FO 11	0.31857	0.28473	-0.66005	-0.0198	0.0107	-0.0003
7736	SLV FO 12	0.31857	0.28473	-0.66005	-0.0198	0.0107	-0.0003
7736	SLV FO 13	1.11844	-0.08562	-0.66677	0.006	0.0384	0.0001
7736	SLV FO 14	1.11844	-0.08562	-0.66677	0.006	0.0384	0.0001
7736	SLV FO 15	1.11837	0.0853	-0.6616	-0.0059	0.0384	-0.0001
7736	SLV FO 16	1.11837	0.0853	-0.6616	-0.0059	0.0384	-0.0001
7744	SLU 1	-0.02228	-0.00003	-0.65251	0	-0.0015	0
7744	SLU 2	-0.0229	-0.00003	-0.65932	0	-0.0026	0
7744	SLU 3	-0.026	-0.00003	-0.69095	0	-0.0021	0
7744	SLU 4	-0.0267	-0.00003	-0.69769	0	-0.0008	0
7744	SLU 5	-0.02701	-0.00003	-0.7011	0	-0.0014	0
7744	SLU 6	-0.02896	-0.00004	-0.84826	0	-0.002	0
7744	SLU 7	-0.02958	-0.00004	-0.85507	0	-0.0031	0
7744	SLU 8	-0.03268	-0.00004	-0.88671	0	-0.0026	0
7744	SLU 9	-0.03339	-0.00004	-0.89345	0	-0.0012	0
7744	SLU 10	-0.0337	-0.00004	-0.89685	0	-0.0018	0
7744	SLE RA 1	-0.02228	-0.00003	-0.65251	0	-0.0015	0
7744	SLE RA 2	-0.02269	-0.00003	-0.65705	0	-0.0023	0
7744	SLE RA 3	-0.02476	-0.00003	-0.67814	0	-0.0019	0
7744	SLE RA 4	-0.02523	-0.00003	-0.68263	0	-0.001	0
7744	SLE RA 5	-0.02543	-0.00003	-0.6849	0	-0.0014	0
7744	SLE FR 1	-0.02228	-0.00003	-0.65251	0	-0.0015	0
7744	SLE FR 2	-0.02236	-0.00003	-0.65342	0	-0.0017	0
7744	SLE FR 3	-0.02413	-0.00003	-0.67149	0	-0.0014	0
7744	SLE FR 4	-0.02434	-0.00003	-0.67359	0	-0.0012	0
7744	SLE QP 1	-0.02228	-0.00003	-0.65251	0	-0.0015	0
7744	SLE QP 2	-0.02405	-0.00003	-0.67058	0	-0.0012	0
7744	SLD 1	-0.60727	-0.04366	-0.67253	0.003	-0.0215	0
7744	SLD 2	-0.60727	-0.04366	-0.67253	0.003	-0.0215	0
7744	SLD 3	-0.60723	0.04359	-0.67516	-0.0031	-0.0215	0

Nodo	Cont.	Spostamento			Rotazione		
Ind.	N.br.	ux	uy	uz	rx	ry	rz
7744	SLD 4	-0.60723	0.04359	-0.67516	-0.0031	-0.0215	0
7744	SLD 5	-0.19908	-0.14545	-0.66718	0.0101	-0.0073	0.0002
7744	SLD 6	-0.19908	-0.14545	-0.66718	0.0101	-0.0073	0.0002
7744	SLD 7	-0.19894	0.14539	-0.67594	-0.0102	-0.0073	-0.0002
7744	SLD 8	-0.19894	0.14539	-0.67594	-0.0102	-0.0073	-0.0002
7744	SLD 9	0.15085	-0.14545	-0.66522	0.0101	0.0048	0.0002
7744	SLD 10	0.15085	-0.14545	-0.66522	0.0101	0.0048	0.0002
7744	SLD 11	0.15098	0.14539	-0.67399	-0.0102	0.0049	-0.0002
7744	SLD 12	0.15098	0.14539	-0.67399	-0.0102	0.0049	-0.0002
7744	SLD 13	0.55914	-0.04365	-0.66601	0.003	0.019	0
7744	SLD 14	0.55914	-0.04365	-0.66601	0.003	0.019	0
7744	SLD 15	0.55918	0.0436	-0.66864	-0.0031	0.019	-0.0001
7744	SLD 16	0.55918	0.0436	-0.66864	-0.0031	0.019	-0.0001
7744	SLV 1	-1.06268	-0.07773	-0.67406	0.0054	-0.0373	0.0001
7744	SLV 2	-1.06268	-0.07773	-0.67406	0.0054	-0.0373	0.0001
7744	SLV 3	-1.0626	0.07765	-0.67874	-0.0054	-0.0373	-0.0001
7744	SLV 4	-1.0626	0.07765	-0.67874	-0.0054	-0.0373	-0.0001
7744	SLV 5	-0.33574	-0.259	-0.66452	0.018	-0.012	0.0003
7744	SLV 6	-0.33574	-0.259	-0.66452	0.018	-0.012	0.0003
7744	SLV 7	-0.33551	0.25893	-0.68013	-0.0181	-0.012	-0.0003
7744	SLV 8	-0.33551	0.25893	-0.68013	-0.0181	-0.012	-0.0003
7744	SLV 9	0.28741	-0.259	-0.66103	0.018	0.0096	0.0003
7744	SLV 10	0.28741	-0.259	-0.66103	0.018	0.0096	0.0003
7744	SLV 11	0.28765	0.25894	-0.67664	-0.0181	0.0096	-0.0003
7744	SLV 12	0.28765	0.25894	-0.67664	-0.0181	0.0096	-0.0003
7744	SLV 13	1.01451	-0.07771	-0.66242	0.0054	0.0348	0.0001
7744	SLV 14	1.01451	-0.07771	-0.66242	0.0054	0.0348	0.0001
7744	SLV 15	1.01458	0.07767	-0.66711	-0.0055	0.0348	-0.0001
7744	SLV 16	1.01458	0.07767	-0.66711	-0.0055	0.0348	-0.0001
7744	SLV FO 1	-1.16654	-0.0855	-0.67441	0.0059	-0.0409	0.0001
7744	SLV FO 2	-1.16654	-0.0855	-0.67441	0.0059	-0.0409	0.0001
7744	SLV FO 3	-1.16646	0.08542	-0.67956	-0.006	-0.0409	-0.0001
7744	SLV FO 4	-1.16646	0.08542	-0.67956	-0.006	-0.0409	-0.0001
7744	SLV FO 5	-0.36691	-0.2849	-0.66392	0.0198	-0.0131	0.0003
7744	SLV FO 6	-0.36691	-0.2849	-0.66392	0.0198	-0.0131	0.0003
7744	SLV FO 7	-0.36665	0.28483	-0.68109	-0.0199	-0.0131	-0.0003
7744	SLV FO 8	-0.36665	0.28483	-0.68109	-0.0199	-0.0131	-0.0003
7744	SLV FO 9	0.31856	-0.28489	-0.66008	0.0198	0.0107	0.0003
7744	SLV FO 10	0.31856	-0.28489	-0.66008	0.0198	0.0107	0.0003
7744	SLV FO 11	0.31882	0.28484	-0.67725	-0.0199	0.0107	-0.0003
7744	SLV FO 12	0.31882	0.28484	-0.67725	-0.0199	0.0107	-0.0003
7744	SLV FO 13	1.11837	-0.08548	-0.66161	0.0059	0.0384	0.0001
7744	SLV FO 14	1.11837	-0.08548	-0.66161	0.0059	0.0384	0.0001
7744	SLV FO 15	1.11845	0.08544	-0.66676	-0.006	0.0384	-0.0001
7744	SLV FO 16	1.11845	0.08544	-0.66676	-0.006	0.0384	-0.0001
7752	SLU 1	-0.02234	0.00005	-0.65255	-0.0001	-0.0018	0.0001
7752	SLU 2	-0.02297	0.00007	-0.65937	-0.0001	-0.003	0.0001
7752	SLU 3	-0.02606	0.00008	-0.69101	-0.0001	-0.0025	0.0001
7752	SLU 4	-0.02676	0.00008	-0.69775	-0.0001	-0.0011	0.0001
7752	SLU 5	-0.02708	0.00008	-0.70116	-0.0001	-0.0017	0.0001
7752	SLU 6	-0.02904	0.00007	-0.84832	-0.0001	-0.0024	0.0001
7752	SLU 7	-0.02967	0.00008	-0.85513	-0.0001	-0.0036	0.0001
7752	SLU 8	-0.03276	0.0001	-0.88677	-0.0001	-0.003	0.0001
7752	SLU 9	-0.03346	0.00009	-0.89351	-0.0001	-0.0016	0.0001
7752	SLU 10	-0.03378	0.0001	-0.89692	-0.0001	-0.0022	0.0001
7752	SLE RA 1	-0.02234	0.00005	-0.65255	-0.0001	-0.0018	0.0001
7752	SLE RA 2	-0.02276	0.00006	-0.6571	-0.0001	-0.0026	0.0001
7752	SLE RA 3	-0.02482	0.00007	-0.67819	-0.0001	-0.0023	0.0001
7752	SLE RA 4	-0.02529	0.00007	-0.68268	-0.0001	-0.0013	0.0001
7752	SLE RA 5	-0.0255	0.00007	-0.68496	-0.0001	-0.0017	0.0001
7752	SLE FR 1	-0.02234	0.00005	-0.65255	-0.0001	-0.0018	0.0001
7752	SLE FR 2	-0.02242	0.00006	-0.65346	-0.0001	-0.002	0.0001
7752	SLE FR 3	-0.02419	0.00007	-0.67154	-0.0001	-0.0017	0.0001
7752	SLE FR 4	-0.0244	0.00007	-0.67364	-0.0001	-0.0015	0.0001
7752	SLE QP 1	-0.02234	0.00005	-0.65255	-0.0001	-0.0018	0.0001
7752	SLE QP 2	-0.02411	0.00006	-0.67063	-0.0001	-0.0015	0.0001
7752	SLD 1	-0.6073	-0.04358	-0.66993	0.003	-0.0215	0
7752	SLD 2	-0.6073	-0.04358	-0.66993	0.003	-0.0215	0
7752	SLD 3	-0.60718	0.04368	-0.67784	-0.0031	-0.0215	-0.0001
7752	SLD 4	-0.60718	0.04368	-0.67784	-0.0031	-0.0215	-0.0001
7752	SLD 5	-0.19924	-0.14537	-0.65844	0.0101	-0.0075	0.0002
7752	SLD 6	-0.19924	-0.14537	-0.65844	0.0101	-0.0075	0.0002
7752	SLD 7	-0.19885	0.14549	-0.68478	-0.0102	-0.0075	-0.0001
7752	SLD 8	-0.19885	0.14549	-0.68478	-0.0102	-0.0075	-0.0001
7752	SLD 9	0.15064	-0.14536	-0.65648	0.01	0.0044	0.0003
7752	SLD 10	0.15064	-0.14536	-0.65648	0.01	0.0044	0.0003
7752	SLD 11	0.15103	0.1455	-0.68282	-0.0103	0.0045	0
7752	SLD 12	0.15103	0.1455	-0.68282	-0.0103	0.0045	0
7752	SLD 13	0.55897	-0.04355	-0.66343	0.0029	0.0184	0.0002
7752	SLD 14	0.55897	-0.04355	-0.66343	0.0029	0.0184	0.0002
7752	SLD 15	0.55909	0.04371	-0.67133	-0.0032	0.0184	0.0001
7752	SLD 16	0.55909	0.04371	-0.67133	-0.0032	0.0184	0.0001
7752	SLV 1	-1.06268	-0.07766	-0.6694	0.0054	-0.0371	0
7752	SLV 2	-1.06268	-0.07766	-0.6694	0.0054	-0.0371	0
7752	SLV 3	-1.06247	0.07774	-0.68347	-0.0055	-0.0371	-0.0002
7752	SLV 4	-1.06247	0.07774	-0.68347	-0.0055	-0.0371	-0.0002
7752	SLV 5	-0.33599	-0.25893	-0.64892	0.018	-0.0122	0.0003
7752	SLV 6	-0.33599	-0.25893	-0.64892	0.018	-0.0122	0.0003
7752	SLV 7	-0.3353	0.25905	-0.69582	-0.0182	-0.0122	-0.0003
7752	SLV 8	-0.3353	0.25905	-0.69582	-0.0182	-0.0122	-0.0003
7752	SLV 9	0.28708	-0.25892	-0.64544	0.018	0.0091	0.0004
7752	SLV 10	0.28708	-0.25892	-0.64544	0.018	0.0091	0.0004
7752	SLV 11	0.28778	0.25906	-0.69234	-0.0182	0.0091	-0.0001
7752	SLV 12	0.28778	0.25906	-0.69234	-0.0182	0.0091	-0.0001
7752	SLV 13	1.01425	-0.07761	-0.65779	0.0053	0.034	0.0004
7752	SLV 14	1.01425	-0.07761	-0.65779	0.0053	0.034	0.0004
7752	SLV 15	1.01446	0.07778	-0.67186	-0.0056	0.034	0.0002
7752	SLV 16	1.01446	0.07778	-0.67186	-0.0056	0.034	0.0002

Nodo	Cont.	Spostamento			Rotazione		
Ind.	N.br.	ux	uy	uz	rx	ry	rz
7752	SLV FO 1	-1.16653	-0.08543	-0.66928	0.0059	-0.0406	0
7752	SLV FO 2	-1.16653	-0.08543	-0.66928	0.0059	-0.0406	0
7752	SLV FO 3	-1.1663	0.0855	-0.68475	-0.006	-0.0406	-0.0002
7752	SLV FO 4	-1.1663	0.0855	-0.68475	-0.006	-0.0406	-0.0002
7752	SLV FO 5	-0.36718	-0.28483	-0.64675	0.0198	-0.0133	0.0003
7752	SLV FO 6	-0.36718	-0.28483	-0.64675	0.0198	-0.0133	0.0003
7752	SLV FO 7	-0.36642	0.28494	-0.69834	-0.02	-0.0132	-0.0003
7752	SLV FO 8	-0.36642	0.28494	-0.69834	-0.02	-0.0132	-0.0003
7752	SLV FO 9	0.3182	-0.28482	-0.64292	0.0198	0.0102	0.0005
7752	SLV FO 10	0.3182	-0.28482	-0.64292	0.0198	0.0102	0.0005
7752	SLV FO 11	0.31897	0.28496	-0.69451	-0.02	0.0102	-0.0002
7752	SLV FO 12	0.31897	0.28496	-0.69451	-0.02	0.0102	-0.0002
7752	SLV FO 13	1.11809	-0.08538	-0.65651	0.0058	0.0375	0.0004
7752	SLV FO 14	1.11809	-0.08538	-0.65651	0.0058	0.0375	0.0004
7752	SLV FO 15	1.11832	0.08556	-0.67198	-0.0061	0.0375	0.0002
7752	SLV FO 16	1.11832	0.08556	-0.67198	-0.0061	0.0375	0.0002
7760	SLU 1	-0.02247	0.00015	-0.65265	-0.0002	-0.0028	0
7760	SLU 2	-0.02311	0.00017	-0.65948	-0.0002	-0.0041	0
7760	SLU 3	-0.0262	0.0002	-0.69113	-0.0002	-0.0035	0
7760	SLU 4	-0.02689	0.00019	-0.69786	-0.0002	-0.002	0
7760	SLU 5	-0.02721	0.0002	-0.70128	-0.0002	-0.0026	0
7760	SLU 6	-0.02921	0.00019	-0.84845	-0.0002	-0.0036	0
7760	SLU 7	-0.02985	0.00022	-0.85527	-0.0003	-0.0049	0
7760	SLU 8	-0.03295	0.00024	-0.88692	-0.0003	-0.0043	0
7760	SLU 9	-0.03363	0.00023	-0.89366	-0.0003	-0.0028	0
7760	SLU 10	-0.03395	0.00024	-0.89707	-0.0003	-0.0034	0
7760	SLE RA 1	-0.02247	0.00015	-0.65265	-0.0002	-0.0028	0
7760	SLE RA 2	-0.0229	0.00017	-0.6572	-0.0002	-0.0036	0
7760	SLE RA 3	-0.02496	0.00018	-0.6783	-0.0002	-0.0033	0
7760	SLE RA 4	-0.02542	0.00017	-0.68279	-0.0002	-0.0022	0
7760	SLE RA 5	-0.02563	0.00018	-0.68507	-0.0002	-0.0027	0
7760	SLE FR 1	-0.02247	0.00015	-0.65265	-0.0002	-0.0028	0
7760	SLE FR 2	-0.02255	0.00015	-0.65356	-0.0002	-0.003	0
7760	SLE FR 3	-0.02432	0.00017	-0.67165	-0.0002	-0.0026	0
7760	SLE FR 4	-0.02453	0.00017	-0.67375	-0.0002	-0.0024	0
7760	SLE QP 1	-0.02247	0.00015	-0.65265	-0.0002	-0.0028	0
7760	SLE QP 2	-0.02424	0.00016	-0.67074	-0.0002	-0.0025	0
7760	SLD 1	-0.60732	-0.0435	-0.66738	0.0029	-0.0215	0
7760	SLD 2	-0.60732	-0.0435	-0.66738	0.0029	-0.0215	0
7760	SLD 3	-0.60712	0.04377	-0.68057	-0.0032	-0.0215	-0.0001
7760	SLD 4	-0.60712	0.04377	-0.68057	-0.0032	-0.0215	-0.0001
7760	SLD 5	-0.19946	-0.1453	-0.64974	0.01	-0.0082	0.0002
7760	SLD 6	-0.19946	-0.1453	-0.64974	0.01	-0.0082	0.0002
7760	SLD 7	-0.19881	0.14561	-0.69368	-0.0104	-0.0082	-0.0002
7760	SLD 8	-0.19881	0.14561	-0.69368	-0.0104	-0.0082	-0.0002
7760	SLD 9	0.15033	-0.14528	-0.64779	0.01	0.0032	0.0001
7760	SLD 10	0.15033	-0.14528	-0.64779	0.01	0.0032	0.0001
7760	SLD 11	0.15099	0.14563	-0.69174	-0.0104	0.0033	-0.0002
7760	SLD 12	0.15099	0.14563	-0.69174	-0.0104	0.0033	-0.0002
7760	SLD 13	0.55865	-0.04344	-0.66091	0.0028	0.0166	0
7760	SLD 14	0.55865	-0.04344	-0.66091	0.0028	0.0166	0
7760	SLD 15	0.55885	0.04383	-0.67409	-0.0033	0.0166	-0.0001
7760	SLD 16	0.55885	0.04383	-0.67409	-0.0033	0.0166	-0.0001
7760	SLV 1	-1.06261	-0.07759	-0.66477	0.0053	-0.0365	0.0001
7760	SLV 2	-1.06261	-0.07759	-0.66477	0.0053	-0.0365	0.0001
7760	SLV 3	-1.06226	0.07782	-0.68825	-0.0055	-0.0364	-0.0001
7760	SLV 4	-1.06226	0.07782	-0.68825	-0.0055	-0.0364	-0.0001
7760	SLV 5	-0.33628	-0.25888	-0.63334	0.018	-0.0127	0.0003
7760	SLV 6	-0.33628	-0.25888	-0.63334	0.018	-0.0127	0.0003
7760	SLV 7	-0.33511	0.25918	-0.7116	-0.0183	-0.0126	-0.0003
7760	SLV 8	-0.33511	0.25918	-0.7116	-0.0183	-0.0126	-0.0003
7760	SLV 9	0.28664	-0.25885	-0.62987	0.0179	0.0077	0.0003
7760	SLV 10	0.28664	-0.25885	-0.62987	0.0179	0.0077	0.0003
7760	SLV 11	0.2878	0.25921	-0.70813	-0.0184	0.0078	-0.0003
7760	SLV 12	0.2878	0.25921	-0.70813	-0.0184	0.0078	-0.0003
7760	SLV 13	1.01379	-0.0775	-0.65322	0.0052	0.0315	0.0001
7760	SLV 14	1.01379	-0.0775	-0.65322	0.0052	0.0315	0.0001
7760	SLV 15	1.01414	0.07792	-0.6767	-0.0057	0.0315	-0.0001
7760	SLV 16	1.01414	0.07792	-0.6767	-0.0057	0.0315	-0.0001
7760	SLV FO 1	-1.16645	-0.08537	-0.66418	0.0059	-0.0399	0.0001
7760	SLV FO 2	-1.16645	-0.08537	-0.66418	0.0059	-0.0399	0.0001
7760	SLV FO 3	-1.16606	0.08559	-0.69	-0.0061	-0.0398	-0.0001
7760	SLV FO 4	-1.16606	0.08559	-0.69	-0.0061	-0.0398	-0.0001
7760	SLV FO 5	-0.36748	-0.28479	-0.6296	0.0198	-0.0137	0.0003
7760	SLV FO 6	-0.36748	-0.28479	-0.6296	0.0198	-0.0137	0.0003
7760	SLV FO 7	-0.3662	0.28508	-0.71568	-0.0201	-0.0137	-0.0004
7760	SLV FO 8	-0.3662	0.28508	-0.71568	-0.0201	-0.0137	-0.0004
7760	SLV FO 9	0.31773	-0.28475	-0.62579	0.0197	0.0087	0.0003
7760	SLV FO 10	0.31773	-0.28475	-0.62579	0.0197	0.0087	0.0003
7760	SLV FO 11	0.31901	0.28511	-0.71187	-0.0202	0.0088	-0.0004
7760	SLV FO 12	0.31901	0.28511	-0.71187	-0.0202	0.0088	-0.0004
7760	SLV FO 13	1.11759	-0.08526	-0.65147	0.0057	0.0349	0.0001
7760	SLV FO 14	1.11759	-0.08526	-0.65147	0.0057	0.0349	0.0001
7760	SLV FO 15	1.11797	0.0857	-0.67729	-0.0063	0.0349	-0.0001
7760	SLV FO 16	1.11797	0.0857	-0.67729	-0.0063	0.0349	-0.0001
7768	SLU 1	-0.02271	0.00026	-0.65287	-0.0004	-0.0038	0.0005
7768	SLU 2	-0.02338	0.0003	-0.65972	-0.0004	-0.0051	0.0005
7768	SLU 3	-0.02647	0.00033	-0.69137	-0.0004	-0.0045	0.0005
7768	SLU 4	-0.02712	0.0003	-0.69809	-0.0004	-0.0029	0.0005
7768	SLU 5	-0.02746	0.00032	-0.70151	-0.0004	-0.0035	0.0005
7768	SLU 6	-0.02952	0.00034	-0.84873	-0.0005	-0.0049	0.0006
7768	SLU 7	-0.03019	0.00038	-0.85558	-0.0005	-0.0063	0.0007
7768	SLU 8	-0.03328	0.0004	-0.88723	-0.0005	-0.0056	0.0007
7768	SLU 9	-0.03393	0.00038	-0.89395	-0.0005	-0.004	0.0006
7768	SLU 10	-0.03427	0.0004	-0.89737	-0.0005	-0.0047	0.0006
7768	SLE RA 1	-0.02271	0.00026	-0.65287	-0.0004	-0.0038	0.0005
7768	SLE RA 2	-0.02316	0.00029	-0.65744	-0.0004	-0.0047	0.0005
7768	SLE RA 3	-0.02522	0.0003	-0.67854	-0.0004	-0.0042	0.0005

Nodo	Cont.	Spostamento			Rotazione		
Ind.	N.br.	ux	uy	uz	rx	ry	rz
7768	SLE RA 4	-0.02565	0.00029	-0.68302	-0.0004	-0.0032	0.0005
7768	SLE RA 5	-0.02587	0.0003	-0.6853	-0.0004	-0.0036	0.0005
7768	SLE FR 1	-0.02271	0.00026	-0.65287	-0.0004	-0.0038	0.0005
7768	SLE FR 2	-0.0228	0.00027	-0.65378	-0.0004	-0.0039	0.0005
7768	SLE FR 3	-0.02456	0.00028	-0.67187	-0.0004	-0.0036	0.0005
7768	SLE FR 4	-0.02477	0.00028	-0.67397	-0.0004	-0.0033	0.0005
7768	SLE QP 1	-0.02271	0.00026	-0.65287	-0.0004	-0.0038	0.0005
7768	SLE QP 2	-0.02447	0.00028	-0.67096	-0.0004	-0.0034	0.0005
7768	SLD 1	-0.60734	-0.0434	-0.66493	0.0027	-0.0217	0
7768	SLD 2	-0.60734	-0.0434	-0.66493	0.0027	-0.0217	0
7768	SLD 3	-0.60707	0.04389	-0.68341	-0.0034	-0.0217	-0.0001
7768	SLD 4	-0.60707	0.04389	-0.68341	-0.0034	-0.0217	-0.0001
7768	SLD 5	-0.19975	-0.14522	-0.64112	0.0099	-0.0089	0.0005
7768	SLD 6	-0.19975	-0.14522	-0.64112	0.0099	-0.0089	0.0005
7768	SLD 7	-0.19884	0.14575	-0.70273	-0.0106	-0.0089	0.0002
7768	SLD 8	-0.19884	0.14575	-0.70273	-0.0106	-0.0089	0.0002
7768	SLD 9	0.14989	-0.1452	-0.63919	0.0098	0.0021	0.0008
7768	SLD 10	0.14989	-0.1452	-0.63919	0.0098	0.0021	0.0008
7768	SLD 11	0.1508	0.14577	-0.7008	-0.0106	0.0021	0.0005
7768	SLD 12	0.1508	0.14577	-0.7008	-0.0106	0.0021	0.0005
7768	SLD 13	0.55812	-0.04334	-0.6585	0.0026	0.0149	0.001
7768	SLD 14	0.55812	-0.04334	-0.6585	0.0026	0.0149	0.001
7768	SLD 15	0.55839	0.04395	-0.67698	-0.0035	0.0149	0.001
7768	SLD 16	0.55839	0.04395	-0.67698	-0.0035	0.0149	0.001
7768	SLV 1	-1.06246	-0.07751	-0.66024	0.0051	-0.036	-0.0004
7768	SLV 2	-1.06246	-0.07751	-0.66024	0.0051	-0.036	-0.0004
7768	SLV 3	-1.06197	0.07794	-0.69315	-0.0058	-0.036	-0.0005
7768	SLV 4	-1.06197	0.07794	-0.69315	-0.0058	-0.036	-0.0005
7768	SLV 5	-0.33661	-0.25883	-0.61782	0.0179	-0.0132	0.0005
7768	SLV 6	-0.33661	-0.25883	-0.61782	0.0179	-0.0132	0.0005
7768	SLV 7	-0.33498	0.25935	-0.72753	-0.0186	-0.0131	-0.0001
7768	SLV 8	-0.33498	0.25935	-0.72753	-0.0186	-0.0131	-0.0001
7768	SLV 9	0.28603	-0.2588	-0.61438	0.0178	0.0064	0.001
7768	SLV 10	0.28603	-0.2588	-0.61438	0.0178	0.0064	0.001
7768	SLV 11	0.28766	0.25938	-0.72409	-0.0186	0.0064	0.0005
7768	SLV 12	0.28766	0.25938	-0.72409	-0.0186	0.0064	0.0005
7768	SLV 13	1.01302	-0.07739	-0.64876	0.005	0.0292	0.0015
7768	SLV 14	1.01302	-0.07739	-0.64876	0.005	0.0292	0.0015
7768	SLV 15	1.01351	0.07806	-0.68168	-0.0059	0.0292	0.0013
7768	SLV 16	1.01351	0.07806	-0.68168	-0.0059	0.0292	0.0013
7768	SLV FO 1	-1.16626	-0.08529	-0.65916	0.0057	-0.0393	-0.0005
7768	SLV FO 2	-1.16626	-0.08529	-0.65916	0.0057	-0.0393	-0.0005
7768	SLV FO 3	-1.16572	0.08571	-0.69537	-0.0063	-0.0392	-0.0006
7768	SLV FO 4	-1.16572	0.08571	-0.69537	-0.0063	-0.0392	-0.0006
7768	SLV FO 5	-0.36783	-0.28474	-0.61251	0.0197	-0.0142	0.0005
7768	SLV FO 6	-0.36783	-0.28474	-0.61251	0.0197	-0.0142	0.0005
7768	SLV FO 7	-0.36603	0.28526	-0.73319	-0.0204	-0.0141	-0.0001
7768	SLV FO 8	-0.36603	0.28526	-0.73319	-0.0204	-0.0141	-0.0001
7768	SLV FO 9	0.31708	-0.2847	-0.60872	0.0196	0.0073	0.0011
7768	SLV FO 10	0.31708	-0.2847	-0.60872	0.0196	0.0073	0.0011
7768	SLV FO 11	0.31888	0.28529	-0.72941	-0.0205	0.0074	0.0005
7768	SLV FO 12	0.31888	0.28529	-0.72941	-0.0205	0.0074	0.0005
7768	SLV FO 13	1.11677	-0.08516	-0.64654	0.0056	0.0324	0.0016
7768	SLV FO 14	1.11677	-0.08516	-0.64654	0.0056	0.0324	0.0016
7768	SLV FO 15	1.11731	0.08584	-0.68275	-0.0065	0.0325	0.0014
7768	SLV FO 16	1.11731	0.08584	-0.68275	-0.0065	0.0325	0.0014
7784	SLU 1	-0.02328	0.00128	-0.65485	-0.0053	-0.0077	-0.0002
7784	SLU 2	-0.02403	0.00148	-0.662	-0.0062	-0.0095	-0.0002
7784	SLU 3	-0.02712	0.0015	-0.69363	-0.0062	-0.0088	-0.0002
7784	SLU 4	-0.0277	0.00131	-0.70004	-0.0053	-0.0067	-0.0002
7784	SLU 5	-0.02807	0.00141	-0.70361	-0.0057	-0.0076	-0.0002
7784	SLU 6	-0.03027	0.00166	-0.8513	-0.0069	-0.01	-0.0002
7784	SLU 7	-0.03101	0.00186	-0.85845	-0.0078	-0.0118	-0.0002
7784	SLU 8	-0.0341	0.00188	-0.89008	-0.0078	-0.0111	-0.0002
7784	SLU 9	-0.03468	0.00169	-0.89649	-0.0069	-0.009	-0.0002
7784	SLU 10	-0.03505	0.00179	-0.90007	-0.0073	-0.0099	-0.0002
7784	SLE RA 1	-0.02328	0.00128	-0.65485	-0.0053	-0.0077	-0.0002
7784	SLE RA 2	-0.02378	0.00141	-0.65961	-0.0059	-0.0089	-0.0002
7784	SLE RA 3	-0.02584	0.00143	-0.6807	-0.0059	-0.0084	-0.0002
7784	SLE RA 4	-0.02622	0.0013	-0.68497	-0.0053	-0.007	-0.0002
7784	SLE RA 5	-0.02647	0.00136	-0.68736	-0.0056	-0.0076	-0.0002
7784	SLE FR 1	-0.02328	0.00128	-0.65485	-0.0053	-0.0077	-0.0002
7784	SLE FR 2	-0.02338	0.0013	-0.6558	-0.0055	-0.0079	-0.0002
7784	SLE FR 3	-0.02515	0.00132	-0.67388	-0.0054	-0.0075	-0.0002
7784	SLE FR 4	-0.02534	0.00129	-0.67594	-0.0053	-0.0072	-0.0002
7784	SLE QP 1	-0.02328	0.00128	-0.65485	-0.0053	-0.0077	-0.0002
7784	SLE QP 2	-0.02505	0.00129	-0.67292	-0.0053	-0.0073	-0.0002
7784	SLD 1	-0.60749	-0.04245	-0.66116	-0.002	-0.0225	0
7784	SLD 2	-0.60749	-0.04245	-0.66116	-0.002	-0.0225	0
7784	SLD 3	-0.60702	0.04489	-0.69099	-0.0082	-0.0225	-0.0001
7784	SLD 4	-0.60702	0.04489	-0.69099	-0.0082	-0.0225	-0.0001
7784	SLD 5	-0.20048	-0.1443	-0.62415	0.0051	-0.0118	0
7784	SLD 6	-0.20048	-0.1443	-0.62415	0.0051	-0.0118	0
7784	SLD 7	-0.19894	0.14684	-0.72359	-0.0156	-0.0118	-0.0003
7784	SLD 8	-0.19894	0.14684	-0.72359	-0.0156	-0.0118	-0.0003
7784	SLD 9	0.14885	-0.14426	-0.62226	0.005	-0.0027	-0.0001
7784	SLD 10	0.14885	-0.14426	-0.62226	0.005	-0.0027	-0.0001
7784	SLD 11	0.15039	0.14688	-0.7217	-0.0158	-0.0027	-0.0004
7784	SLD 12	0.15039	0.14688	-0.7217	-0.0158	-0.0027	-0.0004
7784	SLD 13	0.55693	-0.04231	-0.65486	-0.0024	0.0079	-0.0003
7784	SLD 14	0.55693	-0.04231	-0.65486	-0.0024	0.0079	-0.0003
7784	SLD 15	0.55739	0.04503	-0.68469	-0.0086	0.008	-0.0004
7784	SLD 16	0.55739	0.04503	-0.68469	-0.0086	0.008	-0.0004
7784	SLV 1	-1.06227	-0.0766	-0.65198	0.0006	-0.0344	0.0002
7784	SLV 2	-1.06227	-0.0766	-0.65198	0.0006	-0.0344	0.0002
7784	SLV 3	-1.06145	0.07893	-0.70511	-0.0105	-0.0343	0
7784	SLV 4	-1.06145	0.07893	-0.70511	-0.0105	-0.0343	0
7784	SLV 5	-0.33746	-0.25798	-0.58606	0.0132	-0.0154	0.0002

Nodo	Cont.	Spostamento			Rotazione		
Ind.	N.br.	ux	uy	uz	rx	ry	rz
7784	SLV 6	-0.33746	-0.25798	-0.58606	0.0132	-0.0154	0.0002
7784	SLV 7	-0.33472	0.26048	-0.76316	-0.0237	-0.0153	-0.0004
7784	SLV 8	-0.33472	0.26048	-0.76316	-0.0237	-0.0153	-0.0004
7784	SLV 9	0.28463	-0.2579	-0.58269	0.013	0.0008	0
7784	SLV 10	0.28463	-0.2579	-0.58269	0.013	0.0008	0
7784	SLV 11	0.28737	0.26056	-0.75979	-0.0239	0.0009	-0.0006
7784	SLV 12	0.28737	0.26056	-0.75979	-0.0239	0.0009	-0.0006
7784	SLV 13	1.01136	-0.07636	-0.64074	-0.0001	0.0198	-0.0004
7784	SLV 14	1.01136	-0.07636	-0.64074	-0.0001	0.0198	-0.0004
7784	SLV 15	1.01218	0.07918	-0.69387	-0.0112	0.0198	-0.0005
7784	SLV 16	1.01218	0.07918	-0.69387	-0.0112	0.0198	-0.0005
7784	SLV FO 1	-1.166	-0.08439	-0.64989	0.0011	-0.0371	0.0002
7784	SLV FO 2	-1.166	-0.08439	-0.64989	0.0011	-0.0371	0.0002
7784	SLV FO 3	-1.16509	0.0867	-0.70833	-0.011	-0.037	0
7784	SLV FO 4	-1.16509	0.0867	-0.70833	-0.011	-0.037	0
7784	SLV FO 5	-0.3687	-0.28391	-0.57737	0.0151	-0.0162	0.0002
7784	SLV FO 6	-0.3687	-0.28391	-0.57737	0.0151	-0.0162	0.0002
7784	SLV FO 7	-0.36569	0.2864	-0.77218	-0.0255	-0.0161	-0.0004
7784	SLV FO 8	-0.36569	0.2864	-0.77218	-0.0255	-0.0161	-0.0004
7784	SLV FO 9	0.31559	-0.28382	-0.57367	0.0149	0.0016	0.0001
7784	SLV FO 10	0.31559	-0.28382	-0.57367	0.0149	0.0016	0.0001
7784	SLV FO 11	0.31861	0.28648	-0.76847	-0.0257	0.0017	-0.0006
7784	SLV FO 12	0.31861	0.28648	-0.76847	-0.0257	0.0017	-0.0006
7784	SLV FO 13	1.115	-0.08412	-0.63752	0.0004	0.0225	-0.0004
7784	SLV FO 14	1.115	-0.08412	-0.63752	0.0004	0.0225	-0.0004
7784	SLV FO 15	1.1159	0.08697	-0.69596	-0.0118	0.0226	-0.0006
7784	SLV FO 16	1.1159	0.08697	-0.69596	-0.0118	0.0226	-0.0006
7789	SLU 1	-0.01873	0.00262	-0.68626	-0.0131	0.0076	-0.0002
7789	SLU 2	-0.01869	0.00305	-0.69501	-0.0151	0.0097	-0.0002
7789	SLU 3	-0.02198	0.00306	-0.73057	-0.0151	0.0086	-0.0002
7789	SLU 4	-0.02343	0.00263	-0.73707	-0.013	0.0061	-0.0002
7789	SLU 5	-0.0234	0.00285	-0.74144	-0.0141	0.0071	-0.0002
7789	SLU 6	-0.02435	0.00341	-0.89214	-0.017	0.0099	-0.0002
7789	SLU 7	-0.02431	0.00384	-0.90089	-0.0191	0.012	-0.0003
7789	SLU 8	-0.02759	0.00384	-0.93645	-0.019	0.0109	-0.0003
7789	SLU 9	-0.02904	0.00342	-0.94295	-0.017	0.0084	-0.0002
7789	SLU 10	-0.02902	0.00363	-0.94732	-0.018	0.0094	-0.0002
7789	SLE RA 1	-0.01873	0.00262	-0.68626	-0.0131	0.0076	-0.0002
7789	SLE RA 2	-0.0187	0.00291	-0.6921	-0.0145	0.009	-0.0002
7789	SLE RA 3	-0.02089	0.00291	-0.7158	-0.0144	0.0083	-0.0002
7789	SLE RA 4	-0.02186	0.00263	-0.72013	-0.0131	0.0066	-0.0002
7789	SLE RA 5	-0.02185	0.00277	-0.72305	-0.0137	0.0073	-0.0002
7789	SLE FR 1	-0.01873	0.00262	-0.68626	-0.0131	0.0076	-0.0002
7789	SLE FR 2	-0.01873	0.00268	-0.68743	-0.0134	0.0079	-0.0002
7789	SLE FR 3	-0.0206	0.00268	-0.70775	-0.0133	0.0073	-0.0002
7789	SLE FR 4	-0.02092	0.00263	-0.70997	-0.0131	0.0069	-0.0002
7789	SLE QP 1	-0.01873	0.00262	-0.68626	-0.0131	0.0076	-0.0002
7789	SLE QP 2	-0.02061	0.00263	-0.70659	-0.0131	0.007	-0.0002
7789	SLD 1	-0.60306	-0.04191	-0.73892	-0.01	-0.009	-0.0003
7789	SLD 2	-0.60306	-0.04191	-0.73892	-0.01	-0.009	-0.0003
7789	SLD 3	-0.60328	0.04721	-0.77453	-0.0163	-0.0091	-0.0003
7789	SLD 4	-0.60328	0.04721	-0.77453	-0.0163	-0.0091	-0.0003
7789	SLD 5	-0.19501	-0.14589	-0.66229	-0.0025	0.0022	-0.0003
7789	SLD 6	-0.19501	-0.14589	-0.66229	-0.0025	0.0022	-0.0003
7789	SLD 7	-0.19574	0.15116	-0.78096	-0.0236	0.0022	-0.0002
7789	SLD 8	-0.19574	0.15116	-0.78096	-0.0236	0.0022	-0.0002
7789	SLD 9	0.15452	-0.14591	-0.63221	-0.0025	0.0119	-0.0002
7789	SLD 10	0.15452	-0.14591	-0.63221	-0.0025	0.0119	-0.0002
7789	SLD 11	0.15379	0.15115	-0.75088	-0.0236	0.0118	-0.0001
7789	SLD 12	0.15379	0.15115	-0.75088	-0.0236	0.0118	-0.0001
7789	SLD 13	0.56206	-0.04196	-0.63864	-0.0098	0.0231	0
7789	SLD 14	0.56206	-0.04196	-0.63864	-0.0098	0.0231	0
7789	SLD 15	0.56184	0.04716	-0.67425	-0.0161	0.0231	0
7789	SLD 16	0.56184	0.04716	-0.67425	-0.0161	0.0231	0
7789	SLV 1	-1.05785	-0.07668	-0.76417	-0.0076	-0.0216	-0.0005
7789	SLV 2	-1.05785	-0.07668	-0.76417	-0.0076	-0.0216	-0.0005
7789	SLV 3	-1.05824	0.08202	-0.82757	-0.0189	-0.0216	-0.0004
7789	SLV 4	-1.05824	0.08202	-0.82757	-0.0189	-0.0216	-0.0004
7789	SLV 5	-0.33119	-0.26187	-0.6277	0.0057	-0.0015	-0.0003
7789	SLV 6	-0.33119	-0.26187	-0.6277	0.0057	-0.0015	-0.0003
7789	SLV 7	-0.33249	0.26715	-0.83904	-0.0319	-0.0016	-0.0002
7789	SLV 8	-0.33249	0.26715	-0.83904	-0.0319	-0.0016	-0.0002
7789	SLV 9	0.29127	-0.26189	-0.57413	0.0058	0.0157	-0.0001
7789	SLV 10	0.29127	-0.26189	-0.57413	0.0058	0.0157	-0.0001
7789	SLV 11	0.28997	0.26712	-0.78547	-0.0318	0.0155	0
7789	SLV 12	0.28997	0.26712	-0.78547	-0.0318	0.0155	0
7789	SLV 13	1.01703	-0.07677	-0.5856	-0.0072	0.0356	0.0001
7789	SLV 14	1.01703	-0.07677	-0.5856	-0.0072	0.0356	0.0001
7789	SLV 15	1.01664	0.08194	-0.649	-0.0185	0.0356	0.0001
7789	SLV 16	1.01664	0.08194	-0.649	-0.0185	0.0356	0.0001
7789	SLV FO 1	-1.16158	-0.08461	-0.76993	-0.0071	-0.0244	-0.0005
7789	SLV FO 2	-1.16158	-0.08461	-0.76993	-0.0071	-0.0244	-0.0005
7789	SLV FO 3	-1.16201	0.08996	-0.83967	-0.0195	-0.0245	-0.0005
7789	SLV FO 4	-1.16201	0.08996	-0.83967	-0.0195	-0.0245	-0.0005
7789	SLV FO 5	-0.36225	-0.28831	-0.61981	0.0075	-0.0024	-0.0003
7789	SLV FO 6	-0.36225	-0.28831	-0.61981	0.0075	-0.0024	-0.0003
7789	SLV FO 7	-0.36368	0.2936	-0.85229	-0.0338	-0.0025	-0.0002
7789	SLV FO 8	-0.36368	0.2936	-0.85229	-0.0338	-0.0025	-0.0002
7789	SLV FO 9	0.32246	-0.28834	-0.56088	0.0077	0.0165	-0.0001
7789	SLV FO 10	0.32246	-0.28834	-0.56088	0.0077	0.0165	-0.0001
7789	SLV FO 11	0.32103	0.29357	-0.79336	-0.0337	0.0164	0
7789	SLV FO 12	0.32103	0.29357	-0.79336	-0.0337	0.0164	0
7789	SLV FO 13	1.12079	-0.08471	-0.5735	-0.0067	0.0385	0.0001
7789	SLV FO 14	1.12079	-0.08471	-0.5735	-0.0067	0.0385	0.0001
7789	SLV FO 15	1.12036	0.08987	-0.64324	-0.0191	0.0385	0.0001
7789	SLV FO 16	1.12036	0.08987	-0.64324	-0.0191	0.0385	0.0001
7797	SLU 1	-0.01855	0.00274	-0.69762	-0.0143	0.0088	0
7797	SLU 2	-0.01848	0.00319	-0.70817	-0.0166	0.011	0

Nodo	Cont.	Spostamento			Rotazione		
Ind.	N.br.	ux	uy	uz	rx	ry	rz
7797	SLU 3	-0.02177	0.0032	-0.7437	-0.0165	0.0099	0
7797	SLU 4	-0.02324	0.00275	-0.74838	-0.0142	0.0072	0
7797	SLU 5	-0.02321	0.00298	-0.75365	-0.0154	0.0084	0
7797	SLU 6	-0.02412	0.00356	-0.9069	-0.0186	0.0114	0
7797	SLU 7	-0.02405	0.00402	-0.91745	-0.0209	0.0137	0
7797	SLU 8	-0.02733	0.00402	-0.95298	-0.0208	0.0126	0
7797	SLU 9	-0.02881	0.00357	-0.95766	-0.0185	0.0099	0
7797	SLU 10	-0.02877	0.0038	-0.96294	-0.0197	0.011	0
7797	SLE RA 1	-0.01855	0.00274	-0.69762	-0.0143	0.0088	0
7797	SLE RA 2	-0.0185	0.00304	-0.70465	-0.0158	0.0103	0
7797	SLE RA 3	-0.02069	0.00305	-0.72834	-0.0158	0.0096	0
7797	SLE RA 4	-0.02168	0.00275	-0.73146	-0.0143	0.0078	0
7797	SLE RA 5	-0.02166	0.0029	-0.73497	-0.015	0.0085	0
7797	SLE FR 1	-0.01855	0.00274	-0.69762	-0.0143	0.0088	0
7797	SLE FR 2	-0.01854	0.0028	-0.69902	-0.0146	0.0091	0
7797	SLE FR 3	-0.02042	0.0028	-0.71933	-0.0146	0.0085	0
7797	SLE FR 4	-0.02074	0.00274	-0.72131	-0.0143	0.0081	0
7797	SLE QP 1	-0.01855	0.00274	-0.69762	-0.0143	0.0088	0
7797	SLE QP 2	-0.02043	0.00274	-0.71792	-0.0143	0.0082	0
7797	SLD 1	-0.60274	-0.04184	-0.74767	-0.011	-0.0072	0
7797	SLD 2	-0.60274	-0.04184	-0.74767	-0.011	-0.0072	0
7797	SLD 3	-0.60298	0.04728	-0.78843	-0.0173	-0.0072	0
7797	SLD 4	-0.60298	0.04728	-0.78843	-0.0173	-0.0072	0
7797	SLD 5	-0.19476	-0.1458	-0.66502	-0.0037	0.0036	0
7797	SLD 6	-0.19476	-0.1458	-0.66502	-0.0037	0.0036	0
7797	SLD 7	-0.19555	0.15128	-0.8009	-0.0248	0.0035	0
7797	SLD 8	-0.19555	0.15128	-0.8009	-0.0248	0.0035	0
7797	SLD 9	0.1547	-0.14579	-0.63494	-0.0038	0.0128	0
7797	SLD 10	0.1547	-0.14579	-0.63494	-0.0038	0.0128	0
7797	SLD 11	0.15391	0.15129	-0.77083	-0.0249	0.0127	0
7797	SLD 12	0.15391	0.15129	-0.77083	-0.0249	0.0127	0
7797	SLD 13	0.56212	-0.0418	-0.64741	-0.0112	0.0235	0
7797	SLD 14	0.56212	-0.0418	-0.64741	-0.0112	0.0235	0
7797	SLD 15	0.56189	0.04733	-0.68818	-0.0176	0.0235	0
7797	SLD 16	0.56189	0.04733	-0.68818	-0.0176	0.0235	0
7797	SLV 1	-1.05743	-0.07666	-0.77089	-0.0084	-0.0192	0
7797	SLV 2	-1.05743	-0.07666	-0.77089	-0.0084	-0.0192	0
7797	SLV 3	-1.05786	0.08206	-0.84348	-0.0197	-0.0192	0.0001
7797	SLV 4	-1.05786	0.08206	-0.84348	-0.0197	-0.0192	0.0001
7797	SLV 5	-0.33089	-0.2618	-0.62371	0.0046	0	0
7797	SLV 6	-0.33089	-0.2618	-0.62371	0.0046	0	0
7797	SLV 7	-0.3323	0.26726	-0.86569	-0.033	-0.0001	0.0001
7797	SLV 8	-0.3323	0.26726	-0.86569	-0.033	-0.0001	0.0001
7797	SLV 9	0.29144	-0.26177	-0.57015	0.0045	0.0165	-0.0001
7797	SLV 10	0.29144	-0.26177	-0.57015	0.0045	0.0165	-0.0001
7797	SLV 11	0.29003	0.26728	-0.81214	-0.0332	0.0163	0.0001
7797	SLV 12	0.29003	0.26728	-0.81214	-0.0332	0.0163	0.0001
7797	SLV 13	1.017	-0.07657	-0.59236	-0.0089	0.0355	0
7797	SLV 14	1.017	-0.07657	-0.59236	-0.0089	0.0355	0
7797	SLV 15	1.01658	0.08214	-0.66495	-0.0202	0.0355	0
7797	SLV 16	1.01658	0.08214	-0.66495	-0.0202	0.0355	0
7797	SLV FO 1	-1.16113	-0.0846	-0.77619	-0.0078	-0.0219	0
7797	SLV FO 2	-1.16113	-0.0846	-0.77619	-0.0078	-0.0219	0
7797	SLV FO 3	-1.1616	0.08999	-0.85604	-0.0202	-0.0219	0.0001
7797	SLV FO 4	-1.1616	0.08999	-0.85604	-0.0202	-0.0219	0.0001
7797	SLV FO 5	-0.36194	-0.28825	-0.61429	0.0065	-0.0008	0
7797	SLV FO 6	-0.36194	-0.28825	-0.61429	0.0065	-0.0008	0
7797	SLV FO 7	-0.36348	0.29371	-0.88047	-0.0349	-0.0009	0.0001
7797	SLV FO 8	-0.36348	0.29371	-0.88047	-0.0349	-0.0009	0.0001
7797	SLV FO 9	0.32263	-0.28822	-0.55537	0.0063	0.0173	-0.0001
7797	SLV FO 10	0.32263	-0.28822	-0.55537	0.0063	0.0173	-0.0001
7797	SLV FO 11	0.32108	0.29374	-0.82156	-0.035	0.0171	0.0001
7797	SLV FO 12	0.32108	0.29374	-0.82156	-0.035	0.0171	0.0001
7797	SLV FO 13	1.12074	-0.0845	-0.5798	-0.0083	0.0383	0
7797	SLV FO 14	1.12074	-0.0845	-0.5798	-0.0083	0.0383	0
7797	SLV FO 15	1.12028	0.09008	-0.65966	-0.0208	0.0382	0
7797	SLV FO 16	1.12028	0.09008	-0.65966	-0.0208	0.0382	0
7798	SLU 1	-0.02103	0.00354	-0.68027	-0.0173	-0.0022	0
7798	SLU 2	-0.02147	0.00409	-0.69162	-0.02	-0.0027	0
7798	SLU 3	-0.02459	0.00411	-0.72205	-0.02	-0.0026	0
7798	SLU 4	-0.02549	0.00357	-0.72374	-0.0172	-0.0022	0
7798	SLU 5	-0.02571	0.00385	-0.72941	-0.0186	-0.0024	0
7798	SLU 6	-0.02734	0.0046	-0.88436	-0.0224	-0.0029	0
7798	SLU 7	-0.02777	0.00515	-0.8957	-0.0252	-0.0034	0
7798	SLU 8	-0.0309	0.00517	-0.92613	-0.0252	-0.0033	0
7798	SLU 9	-0.0318	0.00463	-0.92782	-0.0224	-0.0028	0
7798	SLU 10	-0.03202	0.00491	-0.9335	-0.0238	-0.0031	0
7798	SLE RA 1	-0.02103	0.00354	-0.68027	-0.0173	-0.0022	0
7798	SLE RA 2	-0.02132	0.00391	-0.68784	-0.0191	-0.0025	0
7798	SLE RA 3	-0.0234	0.00392	-0.70812	-0.0191	-0.0025	0
7798	SLE RA 4	-0.024	0.00356	-0.70925	-0.0172	-0.0022	0
7798	SLE RA 5	-0.02415	0.00374	-0.71303	-0.0182	-0.0023	0
7798	SLE FR 1	-0.02103	0.00354	-0.68027	-0.0173	-0.0022	0
7798	SLE FR 2	-0.02109	0.00361	-0.68179	-0.0176	-0.0023	0
7798	SLE FR 3	-0.02287	0.00362	-0.69917	-0.0176	-0.0023	0
7798	SLE FR 4	-0.02311	0.00355	-0.70056	-0.0172	-0.0022	0
7798	SLE QP 1	-0.02103	0.00354	-0.68027	-0.0173	-0.0022	0
7798	SLE QP 2	-0.02281	0.00355	-0.69766	-0.0172	-0.0022	0
7798	SLD 1	-0.60386	-0.04088	-0.67459	-0.0138	-0.0087	0
7798	SLD 2	-0.60386	-0.04088	-0.67459	-0.0138	-0.0087	0
7798	SLD 3	-0.60348	0.04785	-0.71534	-0.0202	-0.0087	0
7798	SLD 4	-0.60348	0.04785	-0.71534	-0.0202	-0.0087	0
7798	SLD 5	-0.19769	-0.14434	-0.62893	-0.0066	-0.0042	0.0001
7798	SLD 6	-0.19769	-0.14434	-0.62893	-0.0066	-0.0042	0.0001
7798	SLD 7	-0.19645	0.1514	-0.76478	-0.0277	-0.0042	-0.0001
7798	SLD 8	-0.19645	0.1514	-0.76478	-0.0277	-0.0042	-0.0001
7798	SLD 9	0.15082	-0.1443	-0.63054	-0.0067	-0.0003	0.0001
7798	SLD 10	0.15082	-0.1443	-0.63054	-0.0067	-0.0003	0.0001

Nodo	Cont.	Spostamento			Rotazione		
Ind.	N.br.	ux	uy	uz	rx	ry	rz
7798	SLD 11	0.15206	0.15144	-0.76639	-0.0279	-0.0002	-0.0001
7798	SLD 12	0.15206	0.15144	-0.76639	-0.0279	-0.0002	-0.0001
7798	SLD 13	0.55786	-0.04074	-0.67998	-0.0143	0.0043	0
7798	SLD 14	0.55786	-0.04074	-0.67998	-0.0143	0.0043	0
7798	SLD 15	0.55823	0.04798	-0.72073	-0.0206	0.0043	0
7798	SLD 16	0.55823	0.04798	-0.72073	-0.0206	0.0043	0
7798	SLV 1	-1.05755	-0.07557	-0.65657	-0.0112	-0.0138	0
7798	SLV 2	-1.05755	-0.07557	-0.65657	-0.0112	-0.0138	0
7798	SLV 3	-1.05689	0.08243	-0.72915	-0.0225	-0.0138	-0.0001
7798	SLV 4	-1.05689	0.08243	-0.72915	-0.0225	-0.0138	-0.0001
7798	SLV 5	-0.33424	-0.25982	-0.57526	0.0017	-0.0057	0.0002
7798	SLV 6	-0.33424	-0.25982	-0.57526	0.0017	-0.0057	0.0002
7798	SLV 7	-0.33203	0.26685	-0.81719	-0.0359	-0.0057	-0.0002
7798	SLV 8	-0.33203	0.26685	-0.81719	-0.0359	-0.0057	-0.0002
7798	SLV 9	0.28641	-0.25975	-0.57813	0.0014	0.0013	0.0002
7798	SLV 10	0.28641	-0.25975	-0.57813	0.0014	0.0013	0.0002
7798	SLV 11	0.28861	0.26692	-0.82006	-0.0362	0.0013	-0.0002
7798	SLV 12	0.28861	0.26692	-0.82006	-0.0362	0.0013	-0.0002
7798	SLV 13	1.01126	-0.07533	-0.66617	-0.012	0.0094	0.0001
7798	SLV 14	1.01126	-0.07533	-0.66617	-0.012	0.0094	0.0001
7798	SLV 15	1.01192	0.08267	-0.73875	-0.0233	0.0094	0
7798	SLV 16	1.01192	0.08267	-0.73875	-0.0233	0.0094	0
7798	SLV FO 1	-1.16102	-0.08348	-0.65247	-0.0106	-0.015	0.0001
7798	SLV FO 2	-1.16102	-0.08348	-0.65247	-0.0106	-0.015	0.0001
7798	SLV FO 3	-1.1603	0.09032	-0.7323	-0.023	-0.015	-0.0001
7798	SLV FO 4	-1.1603	0.09032	-0.7323	-0.023	-0.015	-0.0001
7798	SLV FO 5	-0.36538	-0.28616	-0.56302	0.0036	-0.0061	0.0002
7798	SLV FO 6	-0.36538	-0.28616	-0.56302	0.0036	-0.0061	0.0002
7798	SLV FO 7	-0.36295	0.29318	-0.82914	-0.0378	-0.006	-0.0002
7798	SLV FO 8	-0.36295	0.29318	-0.82914	-0.0378	-0.006	-0.0002
7798	SLV FO 9	0.31733	-0.28608	-0.56618	0.0033	0.0016	0.0002
7798	SLV FO 10	0.31733	-0.28608	-0.56618	0.0033	0.0016	0.0002
7798	SLV FO 11	0.31975	0.29326	-0.8323	-0.0381	0.0017	-0.0002
7798	SLV FO 12	0.31975	0.29326	-0.8323	-0.0381	0.0017	-0.0002
7798	SLV FO 13	1.11467	-0.08322	-0.66302	-0.0115	0.0106	0.0001
7798	SLV FO 14	1.11467	-0.08322	-0.66302	-0.0115	0.0106	0.0001
7798	SLV FO 15	1.1154	0.09058	-0.74285	-0.0239	0.0106	0
7798	SLV FO 16	1.1154	0.09058	-0.74285	-0.0239	0.0106	0
7805	SLU 1	-0.0185	0.00273	-0.7092	-0.0142	0.0092	0
7805	SLU 2	-0.01841	0.00319	-0.72162	-0.0165	0.0115	0
7805	SLU 3	-0.02169	0.00319	-0.75711	-0.0164	0.0105	0
7805	SLU 4	-0.02319	0.00274	-0.75991	-0.0141	0.0077	0
7805	SLU 5	-0.02314	0.00296	-0.76611	-0.0152	0.0089	0
7805	SLU 6	-0.02404	0.00355	-0.92196	-0.0184	0.012	0
7805	SLU 7	-0.02396	0.004	-0.93438	-0.0207	0.0143	0
7805	SLU 8	-0.02724	0.00401	-0.96987	-0.0207	0.0132	0
7805	SLU 9	-0.02873	0.00355	-0.97267	-0.0183	0.0105	0
7805	SLU 10	-0.02869	0.00378	-0.97887	-0.0195	0.0116	0
7805	SLE RA 1	-0.0185	0.00273	-0.7092	-0.0142	0.0092	0
7805	SLE RA 2	-0.01844	0.00303	-0.71748	-0.0157	0.0108	0
7805	SLE RA 3	-0.02063	0.00304	-0.74114	-0.0157	0.0101	0
7805	SLE RA 4	-0.02162	0.00273	-0.743	-0.0141	0.0082	0
7805	SLE RA 5	-0.02159	0.00289	-0.74714	-0.0149	0.009	0
7805	SLE FR 1	-0.0185	0.00273	-0.7092	-0.0142	0.0092	0
7805	SLE FR 2	-0.01848	0.00279	-0.71086	-0.0145	0.0095	0
7805	SLE FR 3	-0.02036	0.00279	-0.73114	-0.0144	0.0089	0
7805	SLE FR 4	-0.02068	0.00273	-0.73286	-0.0141	0.0085	0
7805	SLE QP 1	-0.0185	0.00273	-0.7092	-0.0142	0.0092	0
7805	SLE QP 2	-0.02037	0.00273	-0.72948	-0.0141	0.0086	0
7805	SLD 1	-0.60264	-0.04189	-0.75645	-0.0106	-0.0064	-0.0001
7805	SLD 2	-0.60264	-0.04189	-0.75645	-0.0106	-0.0064	-0.0001
7805	SLD 3	-0.6029	0.04724	-0.80238	-0.017	-0.0065	0
7805	SLD 4	-0.6029	0.04724	-0.80238	-0.017	-0.0065	0
7805	SLD 5	-0.19467	-0.14583	-0.66791	-0.0035	0.0041	-0.0001
7805	SLD 6	-0.19467	-0.14583	-0.66791	-0.0035	0.0041	-0.0001
7805	SLD 7	-0.19551	0.15126	-0.82102	-0.0246	0.0041	0
7805	SLD 8	-0.19551	0.15126	-0.82102	-0.0246	0.0041	0
7805	SLD 9	0.15477	-0.1458	-0.63795	-0.0036	0.0132	0
7805	SLD 10	0.15477	-0.1458	-0.63795	-0.0036	0.0132	0
7805	SLD 11	0.15393	0.15129	-0.79106	-0.0248	0.0131	0
7805	SLD 12	0.15393	0.15129	-0.79106	-0.0248	0.0131	0
7805	SLD 13	0.56215	-0.04178	-0.65658	-0.0113	0.0237	0
7805	SLD 14	0.56215	-0.04178	-0.65658	-0.0113	0.0237	0
7805	SLD 15	0.5619	0.04735	-0.70251	-0.0176	0.0237	0
7805	SLD 16	0.5619	0.04735	-0.70251	-0.0176	0.0237	0
7805	SLV 1	-1.0573	-0.07673	-0.77751	-0.0079	-0.0182	-0.0001
7805	SLV 2	-1.0573	-0.07673	-0.77751	-0.0079	-0.0182	-0.0001
7805	SLV 3	-1.05775	0.082	-0.85931	-0.0192	-0.0183	-0.0001
7805	SLV 4	-1.05775	0.082	-0.85931	-0.0192	-0.0183	-0.0001
7805	SLV 5	-0.33077	-0.26184	-0.61983	0.0049	0.0006	-0.0001
7805	SLV 6	-0.33077	-0.26184	-0.61983	0.0049	0.0006	-0.0001
7805	SLV 7	-0.33226	0.26724	-0.89249	-0.0328	0.0005	0
7805	SLV 8	-0.33226	0.26724	-0.89249	-0.0328	0.0005	0
7805	SLV 9	0.29152	-0.26178	-0.56647	0.0045	0.0168	-0.0001
7805	SLV 10	0.29152	-0.26178	-0.56647	0.0045	0.0168	-0.0001
7805	SLV 11	0.29003	0.2673	-0.83914	-0.0332	0.0166	0
7805	SLV 12	0.29003	0.2673	-0.83914	-0.0332	0.0166	0
7805	SLV 13	1.01701	-0.07653	-0.59966	-0.0091	0.0355	0
7805	SLV 14	1.01701	-0.07653	-0.59966	-0.0091	0.0355	0
7805	SLV 15	1.01656	0.08219	-0.68146	-0.0204	0.0355	0
7805	SLV 16	1.01656	0.08219	-0.68146	-0.0204	0.0355	0
7805	SLV FO 1	-1.16099	-0.08467	-0.78231	-0.0073	-0.0209	-0.0001
7805	SLV FO 2	-1.16099	-0.08467	-0.78231	-0.0073	-0.0209	-0.0001
7805	SLV FO 3	-1.16149	0.08992	-0.87229	-0.0197	-0.021	-0.0001
7805	SLV FO 4	-1.16149	0.08992	-0.87229	-0.0197	-0.021	-0.0001
7805	SLV FO 5	-0.36181	-0.28829	-0.60886	0.0068	-0.0001	-0.0001
7805	SLV FO 6	-0.36181	-0.28829	-0.60886	0.0068	-0.0001	-0.0001
7805	SLV FO 7	-0.36345	0.29369	-0.90879	-0.0347	-0.0003	0

Nodo	Cont.	Spostamento			Rotazione		
Ind.	N.br.	ux	uy	uz	rx	ry	rz
7805	SLV FO 8	-0.36345	0.29369	-0.90879	-0.0347	-0.0003	0
7805	SLV FO 9	0.32271	-0.28823	-0.55017	0.0064	0.0176	-0.0001
7805	SLV FO 10	0.32271	-0.28823	-0.55017	0.0064	0.0176	-0.0001
7805	SLV FO 11	0.32107	0.29376	-0.8501	-0.0351	0.0174	0
7805	SLV FO 12	0.32107	0.29376	-0.8501	-0.0351	0.0174	0
7805	SLV FO 13	1.12074	-0.08446	-0.58668	-0.0085	0.0382	0
7805	SLV FO 14	1.12074	-0.08446	-0.58668	-0.0085	0.0382	0
7805	SLV FO 15	1.12025	0.09013	-0.67666	-0.021	0.0382	0
7805	SLV FO 16	1.12025	0.09013	-0.67666	-0.021	0.0382	0

7.2.2 Spostamenti nodali nei modi

***Nodo**: nodo interessato dallo spostamento.*
***Ind.**: indice del nodo.*
***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.	N.br.	ux	uy	uz	rx	ry	rz
2504	Modo 1	0.01438	-0.00002	0.0046	0	0.0056	0.0002
2504	Modo 2	0.0046	-0.00001	0.00138	0	0.0019	0.0001
2504	Modo 3	0.00069	0.01298	0.01582	-0.0033	-0.0002	0.0001
2504	Modo 4	-0.00015	-0.00569	-0.00806	0.0016	0.0002	0
2504	Modo 5	-0.01685	0	0.00056	0	-0.0053	0
2512	Modo 1	0.01438	0.00002	0.00459	0	0.0056	-0.0002
2512	Modo 2	0.0046	0.00001	0.00138	0	0.0019	-0.0001
2512	Modo 3	-0.00069	0.01298	-0.01582	-0.0033	0.0002	0.0001
2512	Modo 4	0.00015	-0.00569	0.00805	0.0016	-0.0002	0
2512	Modo 5	-0.01684	0	0.00056	0	-0.0053	0
2543	Modo 1	0.01899	0.00002	0.0046	0	0.0056	-0.0003
2543	Modo 2	0.00619	0.00001	0.00138	0	0.002	-0.0001
2543	Modo 3	-0.00046	0.0158	-0.01368	-0.0033	0.0002	0.0001
2543	Modo 4	-0.00002	-0.00705	0.00715	0.0017	-0.0002	0
2543	Modo 5	-0.02073	0	0.00058	0	-0.0039	0
2591	Modo 1	0.01937	-0.00001	0.00461	0	0.0057	0.0003
2591	Modo 2	0.00632	0	0.00138	0	0.002	0.0001
2591	Modo 3	0.00051	0.01592	0.01596	-0.0034	-0.0002	0.0001
2591	Modo 4	0.00006	-0.00712	-0.00829	0.0017	0.0003	0
2591	Modo 5	-0.02092	0	0.00059	0	-0.0039	-0.0002
2599	Modo 1	0.01937	0.00002	0.0046	0	0.0057	-0.0003
2599	Modo 2	0.00632	0	0.00138	0	0.002	-0.0001
2599	Modo 3	-0.00051	0.01592	-0.01595	-0.0034	0.0002	0.0001
2599	Modo 4	-0.00005	-0.00712	0.00828	0.0017	-0.0003	0
2599	Modo 5	-0.02091	0	0.00058	0	-0.0039	0.0001
2611	Modo 1	0.01917	-0.00001	0.00461	0	0.0056	0.0003
2611	Modo 2	0.00625	-0.00001	0.00138	0	0.002	0.0001
2611	Modo 3	0.00045	0.01592	0.01342	-0.0033	-0.0002	0.0001
2611	Modo 4	0.00003	-0.00711	-0.00702	0.0016	0.0002	0
2611	Modo 5	-0.02088	0	0.00059	0	-0.0039	0
2626	Modo 1	0.02364	0.00002	0.00462	0	0.0053	-0.0004
2626	Modo 2	0.00782	0.00001	0.00139	0	0.0019	-0.0001
2626	Modo 3	-0.00029	0.01865	-0.01392	-0.0034	0.0002	0
2626	Modo 4	-0.00021	-0.00846	0.00742	0.0017	-0.0002	0.0001
2626	Modo 5	-0.02331	0	0.0006	0	-0.0021	0.0001
2681	Modo 1	0.02425	-0.00001	0.00462	0	0.0054	0.0005
2681	Modo 2	0.00804	-0.00001	0.00139	0	0.0019	0.0002
2681	Modo 3	0.00031	0.01887	0.01607	-0.0033	-0.0002	0
2681	Modo 4	0.00028	-0.00858	-0.00853	0.0016	0.0003	0.0001
2681	Modo 5	-0.02357	0	0.00061	0	-0.002	-0.0003
2689	Modo 1	0.02425	0.00002	0.00462	0	0.0054	-0.0005
2689	Modo 2	0.00803	0.00001	0.00139	0	0.0019	-0.0002
2689	Modo 3	-0.00031	0.01887	-0.01607	-0.0034	0.0002	0
2689	Modo 4	-0.00028	-0.00858	0.00852	0.0017	-0.0003	0.0001
2689	Modo 5	-0.02355	0	0.0006	0	-0.002	0.0003
2698	Modo 1	0.02403	-0.00001	0.00462	0	0.0053	0.0004
2698	Modo 2	0.00796	-0.00001	0.00139	0	0.0019	0.0001
2698	Modo 3	0.00028	0.01891	0.01379	-0.0034	-0.0002	0
2698	Modo 4	0.00022	-0.0086	-0.00737	0.0018	0.0002	0.0001
2698	Modo 5	-0.02348	0	0.00061	0	-0.0019	-0.0001
2858	Modo 1	0.03188	0	-0.00017	0	0.0017	0.0004
2858	Modo 2	0.01076	0	-0.0001	0	0.0006	0.0002
2858	Modo 3	-0.00014	0.02278	0.02405	-0.0035	0	0
2858	Modo 4	0.0008	-0.00968	-0.012	0.0014	0	0.0001
2858	Modo 5	-0.02265	0	0.00003	0	0.001	0.0002
2859	Modo 1	0.03203	-0.00001	-0.00017	0	0.0015	0.0005
2859	Modo 2	0.01086	0	0.00027	0	0.0005	0.0002
2859	Modo 3	-0.00014	0.02263	0.02388	-0.0035	0	0
2859	Modo 4	0.00051	-0.00893	-0.01119	0.0013	0	0.0001
2859	Modo 5	-0.02268	0	-0.00005	0	0.001	0.0002
2860	Modo 1	-0.01069	0	-0.0003	0	-0.0006	-0.0002
2860	Modo 2	0.03214	0.00001	-0.00011	0	0.0015	0.0005
2860	Modo 3	-0.00323	0.01885	0.01991	-0.0029	0.0001	-0.0005
2860	Modo 4	0.01543	0.01044	0.00907	-0.0017	-0.0007	0.0025
2860	Modo 5	-0.0215	0	0.00003	0	0.0011	0.0002
2862	Modo 1	0.03188	0	-0.00017	0	0.0017	-0.0004
2862	Modo 2	0.01076	0	-0.0001	0	0.0006	-0.0001
2862	Modo 3	0.00014	0.02278	-0.02405	-0.0035	0	0

Nodo	Cont.	Spostamento			Rotazione		
Ind.	N.br.	ux	uy	uz	rx	ry	rz
2862	Modo 4	-0.0008	-0.00968	0.01202	0.0014	0	0.0001
2862	Modo 5	-0.02265	0	0.00003	0	0.001	-0.0002
2864	Modo 1	-0.01069	0	-0.0003	0	-0.0006	0.0001
2864	Modo 2	0.03214	-0.00001	-0.00011	0	0.0015	-0.0005
2864	Modo 3	0.00323	0.01885	-0.01991	-0.0029	-0.0001	-0.0005
2864	Modo 4	-0.01542	0.01044	-0.00905	-0.0017	0.0007	0.0025
2864	Modo 5	-0.02151	0	0.00003	0	0.0011	-0.0002
2879	Modo 1	-0.01042	-0.00001	0.00067	0	-0.0009	-0.0001
2879	Modo 2	0.0312	0.00003	-0.0021	0	0.0025	0.0003
2879	Modo 3	-0.00337	0.01121	0.01259	-0.0017	0	-0.0005
2879	Modo 4	0.01531	0.04679	0.04898	-0.0067	-0.0002	0.0022
2879	Modo 5	-0.0225	0.00002	-0.00143	0	0.0021	0.0001
2883	Modo 1	-0.01043	0.00001	0.00067	0	-0.0009	0.0001
2883	Modo 2	0.0312	-0.00003	-0.0021	0	0.0025	-0.0003
2883	Modo 3	0.00337	0.01121	-0.01259	-0.0017	0	-0.0005
2883	Modo 4	-0.0153	0.04679	-0.04898	-0.0067	0.0002	0.0022
2883	Modo 5	-0.0225	-0.00001	-0.00144	0	0.0021	-0.0001
2890	Modo 1	0.03231	0	-0.00017	0	0.0014	0.0003
2890	Modo 2	0.01091	0	-0.0001	0	0.0005	0.0001
2890	Modo 3	-0.00015	0.02319	0.02672	-0.0035	0	0
2890	Modo 4	0.00089	-0.00984	-0.01305	0.0014	-0.0001	0.0001
2890	Modo 5	-0.0224	0	0.00002	0	0.0008	0.0002
2891	Modo 1	0.03246	-0.00001	-0.00016	0	0.0012	0.0003
2891	Modo 2	0.01101	0	0.00028	0	0.0004	0.0001
2891	Modo 3	-0.00016	0.02304	0.02652	-0.0035	0	0
2891	Modo 4	0.00057	-0.00907	-0.01215	0.0013	0	0.0001
2891	Modo 5	-0.02243	0	-0.00004	0	0.0009	0.0002
2892	Modo 1	-0.01084	0	-0.0003	0	-0.0005	-0.0001
2892	Modo 2	0.03258	0.00001	-0.00012	0	0.0012	0.0003
2892	Modo 3	-0.0036	0.01918	0.02212	-0.0029	0.0002	-0.0005
2892	Modo 4	0.01719	0.01065	0.01037	-0.0017	-0.001	0.0024
2892	Modo 5	-0.02123	0	0.00002	0	0.0009	0.0002

7.3 Reazioni nodali

7.3.1 Reazioni nodali estreme

***Nodo**: Nodo sollecitato dalla reazione vincolare.*
***Ind.**: indice del nodo.*
***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]*

Reazioni Fx minime

Vengono mostrati i soli 5 nodi più sollecitati.

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	N.br.	x	y	z	x	y	z
1017	SLV FO 15	-257	-52	1869	0	0	0
932	SLV FO 13	-256	52	1868	0	0	0
928	SLV FO 13	-256	67	2025	0	0	0
1013	SLV FO 15	-256	-60	2021	0	0	0
1102	SLV FO 15	-256	-104	1885	0	0	0

Reazioni Fx massime

Vengono mostrati i soli 5 nodi più sollecitati.

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	N.br.	x	y	z	x	y	z
832	SLV FO 1	291	126	2247	0	0	0
919	SLV FO 1	290	71	2226	0	0	0
1091	SLV FO 3	289	-106	2218	0	0	0
744	SLV FO 1	289	187	2267	0	0	0
1005	SLV FO 3	288	-54	2210	0	0	0

Reazioni Fy minime

Vengono mostrati i soli 5 nodi più sollecitati.

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	N.br.	x	y	z	x	y	z
2047	SLV FO 7	39	-718	1890	-21540	-1180	0
2048	SLV FO 7	46	-707	1910	-21207	-1382	0
2046	SLV FO 7	53	-673	2067	-20201	-1578	0
2050	SLV FO 11	-42	-672	1998	-20169	1253	0
1355	SLV FO 7	56	-670	2133	0	0	0

Reazioni Fy massime

Vengono mostrati i soli 5 nodi più sollecitati.

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	N.br.	x	y	z	x	y	z
1958	SLV FO 5	48	890	2365	26688	-1450	0
1959	SLV FO 5	56	879	2399	26383	-1693	0
1961	SLV FO 9	-53	836	2504	25075	1585	0
1957	SLV FO 5	61	831	2563	24942	-1817	0
1962	SLV FO 9	-61	816	2314	24478	1843	0

Reazioni Fz minime

Vengono mostrati i soli 5 nodi più sollecitati.

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	N.br.	x	y	z	x	y	z
147	SLV Y	21	-135	-352	0	0	0
160	SLV Y	21	-127	-344	0	0	0
169	SLV Y	-3	-140	-343	0	0	0
170	SLV Y	5	-142	-343	0	0	0
171	SLV Y	10	-138	-340	0	0	0

Reazioni Fz massime

Vengono mostrati i soli 5 nodi più sollecitati.

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	N.br.	x	y	z	x	y	z
489	SLU 10	41	396	3209	0	0	0
492	SLU 10	-19	373	3197	0	0	0
490	SLU 10	44	384	3141	0	0	0
416	SLU 10	-1	449	3113	0	0	0
573	SLU 10	-27	404	3082	0	0	0

7.3.2 Reazioni nodali in combinazioni di carico

***Nodo**: Nodo sollecitato dalla reazione vincolare.*
***Ind.**: indice del nodo.*
***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
416	SLU 1	-1	304	2264	0	0	0
416	SLU 2	-2	311	2286	0	0	0
416	SLU 3	-1	346	2397	0	0	0
416	SLU 4	0	354	2423	0	0	0
416	SLU 5	-1	358	2434	0	0	0
416	SLU 6	-2	395	2943	0	0	0
416	SLU 7	-2	402	2965	0	0	0
416	SLU 8	-1	437	3076	0	0	0
416	SLU 9	-1	445	3102	0	0	0
416	SLU 10	-1	449	3113	0	0	0
416	SLE RA 1	-1	304	2264	0	0	0
416	SLE RA 2	-2	308	2279	0	0	0
416	SLE RA 3	-1	332	2353	0	0	0
416	SLE RA 4	-1	337	2370	0	0	0
416	SLE RA 5	-1	340	2377	0	0	0
416	SLE FR 1	-1	304	2264	0	0	0
416	SLE FR 2	-1	305	2267	0	0	0
416	SLE FR 3	-1	325	2330	0	0	0
416	SLE FR 4	-1	327	2338	0	0	0
416	SLE QP 1	-1	304	2264	0	0	0
416	SLE QP 2	-1	324	2328	0	0	0
416	SLD 1	63	405	2543	0	0	0
416	SLD 2	63	405	2543	0	0	0
416	SLD 3	65	344	2434	0	0	0
416	SLD 4	65	344	2434	0	0	0
416	SLD 5	16	441	2558	0	0	0
416	SLD 6	16	441	2558	0	0	0
416	SLD 7	22	237	2193	0	0	0
416	SLD 8	22	237	2193	0	0	0
416	SLD 9	-23	411	2462	0	0	0
416	SLD 10	-23	411	2462	0	0	0
416	SLD 11	-17	206	2097	0	0	0
416	SLD 12	-17	206	2097	0	0	0
416	SLD 13	-66	304	2221	0	0	0
416	SLD 14	-66	304	2221	0	0	0
416	SLD 15	-64	243	2112	0	0	0
416	SLD 16	-64	243	2112	0	0	0
416	SLV 1	113	469	2712	0	0	0
416	SLV 2	113	469	2712	0	0	0
416	SLV 3	116	359	2517	0	0	0
416	SLV 4	116	359	2517	0	0	0
416	SLV 5	28	533	2739	0	0	0
416	SLV 6	28	533	2739	0	0	0
416	SLV 7	39	169	2089	0	0	0
416	SLV 8	39	169	2089	0	0	0
416	SLV 9	-41	479	2566	0	0	0
416	SLV 10	-41	479	2566	0	0	0
416	SLV 11	-30	115	1917	0	0	0
416	SLV 12	-30	115	1917	0	0	0
416	SLV 13	-117	289	2138	0	0	0
416	SLV 14	-117	289	2138	0	0	0
416	SLV 15	-114	179	1943	0	0	0
416	SLV 16	-114	179	1943	0	0	0
416	SLV FO 1	124	483	2750	0	0	0
416	SLV FO 2	124	483	2750	0	0	0
416	SLV FO 3	127	363	2536	0	0	0
416	SLV FO 4	127	363	2536	0	0	0
416	SLV FO 5	31	554	2780	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	N.br.	x	y	z	x	y	z
416	SLV FO 6	31	554	2780	0	0	0
416	SLV FO 7	43	153	2065	0	0	0
416	SLV FO 8	43	153	2065	0	0	0
416	SLV FO 9	-45	495	2590	0	0	0
416	SLV FO 10	-45	495	2590	0	0	0
416	SLV FO 11	-33	94	1875	0	0	0
416	SLV FO 12	-33	94	1875	0	0	0
416	SLV FO 13	-129	285	2119	0	0	0
416	SLV FO 14	-129	285	2119	0	0	0
416	SLV FO 15	-126	165	1905	0	0	0
416	SLV FO 16	-126	165	1905	0	0	0
416	CRTFP Ux+	0	0	0	0	0	0
416	CRTFP Ux-	0	0	0	0	0	0
416	CRTFP Uy+	0	0	0	0	0	0
416	CRTFP Uy-	0	0	0	0	0	0
488	SLU 1	-22	272	2239	0	0	0
488	SLU 2	-23	279	2261	0	0	0
488	SLU 3	-26	310	2359	0	0	0
488	SLU 4	-26	316	2379	0	0	0
488	SLU 5	-26	319	2390	0	0	0
488	SLU 6	-29	354	2910	0	0	0
488	SLU 7	-30	361	2933	0	0	0
488	SLU 8	-32	392	3031	0	0	0
488	SLU 9	-33	398	3051	0	0	0
488	SLU 10	-33	401	3062	0	0	0
488	SLE RA 1	-22	272	2239	0	0	0
488	SLE RA 2	-23	277	2253	0	0	0
488	SLE RA 3	-24	297	2319	0	0	0
488	SLE RA 4	-25	301	2332	0	0	0
488	SLE RA 5	-25	304	2340	0	0	0
488	SLE FR 1	-22	272	2239	0	0	0
488	SLE FR 2	-23	273	2242	0	0	0
488	SLE FR 3	-24	291	2298	0	0	0
488	SLE FR 4	-24	293	2304	0	0	0
488	SLE QP 1	-22	272	2239	0	0	0
488	SLE QP 2	-24	290	2295	0	0	0
488	SLD 1	58	318	2345	0	0	0
488	SLD 2	58	318	2345	0	0	0
488	SLD 3	62	257	2253	0	0	0
488	SLD 4	62	257	2253	0	0	0
488	SLD 5	-5	390	2450	0	0	0
488	SLD 6	-5	390	2450	0	0	0
488	SLD 7	8	188	2142	0	0	0
488	SLD 8	8	188	2142	0	0	0
488	SLD 9	-55	391	2447	0	0	0
488	SLD 10	-55	391	2447	0	0	0
488	SLD 11	-43	190	2140	0	0	0
488	SLD 12	-43	190	2140	0	0	0
488	SLD 13	-109	322	2337	0	0	0
488	SLD 14	-109	322	2337	0	0	0
488	SLD 15	-106	262	2245	0	0	0
488	SLD 16	-106	262	2245	0	0	0
488	SLV 1	122	340	2384	0	0	0
488	SLV 2	122	340	2384	0	0	0
488	SLV 3	129	232	2220	0	0	0
488	SLV 4	129	232	2220	0	0	0
488	SLV 5	9	468	2571	0	0	0
488	SLV 6	9	468	2571	0	0	0
488	SLV 7	32	109	2023	0	0	0
488	SLV 8	32	109	2023	0	0	0
488	SLV 9	-80	471	2567	0	0	0
488	SLV 10	-80	471	2567	0	0	0
488	SLV 11	-57	111	2019	0	0	0
488	SLV 12	-57	111	2019	0	0	0
488	SLV 13	-176	348	2370	0	0	0
488	SLV 14	-176	348	2370	0	0	0
488	SLV 15	-169	240	2206	0	0	0
488	SLV 16	-169	240	2206	0	0	0
488	SLV FO 1	136	345	2393	0	0	0
488	SLV FO 2	136	345	2393	0	0	0
488	SLV FO 3	144	226	2212	0	0	0
488	SLV FO 4	144	226	2212	0	0	0
488	SLV FO 5	13	486	2598	0	0	0
488	SLV FO 6	13	486	2598	0	0	0
488	SLV FO 7	38	91	1996	0	0	0
488	SLV FO 8	38	91	1996	0	0	0
488	SLV FO 9	-86	489	2594	0	0	0
488	SLV FO 10	-86	489	2594	0	0	0
488	SLV FO 11	-60	94	1991	0	0	0
488	SLV FO 12	-60	94	1991	0	0	0
488	SLV FO 13	-192	354	2377	0	0	0
488	SLV FO 14	-192	354	2377	0	0	0
488	SLV FO 15	-184	235	2197	0	0	0
488	SLV FO 16	-184	235	2197	0	0	0
488	CRTFP Ux+	0	0	0	0	0	0
488	CRTFP Ux-	0	0	0	0	0	0
488	CRTFP Uy+	0	0	0	0	0	0
488	CRTFP Uy-	0	0	0	0	0	0
489	SLU 1	30	269	2346	0	0	0
489	SLU 2	31	276	2370	0	0	0
489	SLU 3	32	306	2472	0	0	0
489	SLU 4	31	312	2493	0	0	0
489	SLU 5	32	315	2505	0	0	0
489	SLU 6	39	349	3050	0	0	0
489	SLU 7	39	356	3074	0	0	0
489	SLU 8	41	386	3176	0	0	0
489	SLU 9	40	392	3197	0	0	0
489	SLU 10	41	396	3209	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	N.br.	x	y	z	x	y	z
489	SLE RA 1	30	269	2346	0	0	0
489	SLE RA 2	30	273	2362	0	0	0
489	SLE RA 3	31	293	2430	0	0	0
489	SLE RA 4	31	297	2444	0	0	0
489	SLE RA 5	31	300	2452	0	0	0
489	SLE FR 1	30	269	2346	0	0	0
489	SLE FR 2	30	270	2349	0	0	0
489	SLE FR 3	30	287	2408	0	0	0
489	SLE FR 4	30	289	2415	0	0	0
489	SLE QP 1	30	269	2346	0	0	0
489	SLE QP 2	30	286	2405	0	0	0
489	SLD 1	118	316	2440	0	0	0
489	SLD 2	118	316	2440	0	0	0
489	SLD 3	116	262	2357	0	0	0
489	SLD 4	116	262	2357	0	0	0
489	SLD 5	61	376	2542	0	0	0
489	SLD 6	61	376	2542	0	0	0
489	SLD 7	52	197	2264	0	0	0
489	SLD 8	52	197	2264	0	0	0
489	SLD 9	9	374	2546	0	0	0
489	SLD 10	9	374	2546	0	0	0
489	SLD 11	0	196	2268	0	0	0
489	SLD 12	0	196	2268	0	0	0
489	SLD 13	-55	310	2453	0	0	0
489	SLD 14	-55	310	2453	0	0	0
489	SLD 15	-58	256	2370	0	0	0
489	SLD 16	-58	256	2370	0	0	0
489	SLV 1	188	339	2467	0	0	0
489	SLV 2	188	339	2467	0	0	0
489	SLV 3	183	244	2319	0	0	0
489	SLV 4	183	244	2319	0	0	0
489	SLV 5	85	447	2648	0	0	0
489	SLV 6	85	447	2648	0	0	0
489	SLV 7	69	128	2155	0	0	0
489	SLV 8	69	128	2155	0	0	0
489	SLV 9	-8	443	2655	0	0	0
489	SLV 10	-8	443	2655	0	0	0
489	SLV 11	-24	125	2162	0	0	0
489	SLV 12	-24	125	2162	0	0	0
489	SLV 13	-122	328	2491	0	0	0
489	SLV 14	-122	328	2491	0	0	0
489	SLV 15	-127	233	2343	0	0	0
489	SLV 16	-127	233	2343	0	0	0
489	SLV FO 1	203	345	2473	0	0	0
489	SLV FO 2	203	345	2473	0	0	0
489	SLV FO 3	198	240	2310	0	0	0
489	SLV FO 4	198	240	2310	0	0	0
489	SLV FO 5	90	463	2672	0	0	0
489	SLV FO 6	90	463	2672	0	0	0
489	SLV FO 7	73	113	2130	0	0	0
489	SLV FO 8	73	113	2130	0	0	0
489	SLV FO 9	-12	459	2680	0	0	0
489	SLV FO 10	-12	459	2680	0	0	0
489	SLV FO 11	-30	109	2137	0	0	0
489	SLV FO 12	-30	109	2137	0	0	0
489	SLV FO 13	-138	332	2500	0	0	0
489	SLV FO 14	-138	332	2500	0	0	0
489	SLV FO 15	-143	227	2337	0	0	0
489	SLV FO 16	-143	227	2337	0	0	0
489	CRTFP Uy+	0	0	0	0	0	0
489	CRTFP Uy-	0	0	0	0	0	0
490	SLU 1	32	261	2295	0	0	0
490	SLU 2	32	267	2318	0	0	0
490	SLU 3	34	297	2420	0	0	0
490	SLU 4	34	303	2441	0	0	0
490	SLU 5	35	306	2453	0	0	0
490	SLU 6	41	339	2984	0	0	0
490	SLU 7	42	346	3006	0	0	0
490	SLU 8	44	375	3109	0	0	0
490	SLU 9	44	381	3130	0	0	0
490	SLU 10	44	384	3141	0	0	0
490	SLE RA 1	32	261	2295	0	0	0
490	SLE RA 2	32	265	2310	0	0	0
490	SLE RA 3	33	285	2378	0	0	0
490	SLE RA 4	33	289	2392	0	0	0
490	SLE RA 5	34	291	2400	0	0	0
490	SLE FR 1	32	261	2295	0	0	0
490	SLE FR 2	32	262	2298	0	0	0
490	SLE FR 3	33	279	2357	0	0	0
490	SLE FR 4	33	280	2363	0	0	0
490	SLE QP 1	32	261	2295	0	0	0
490	SLE QP 2	33	278	2354	0	0	0
490	SLD 1	116	310	2403	0	0	0
490	SLD 2	116	310	2403	0	0	0
490	SLD 3	113	263	2333	0	0	0
490	SLD 4	113	263	2333	0	0	0
490	SLD 5	63	360	2473	0	0	0
490	SLD 6	63	360	2473	0	0	0
490	SLD 7	51	201	2243	0	0	0
490	SLD 8	51	201	2243	0	0	0
490	SLD 9	14	355	2464	0	0	0
490	SLD 10	14	355	2464	0	0	0
490	SLD 11	2	195	2234	0	0	0
490	SLD 12	2	195	2234	0	0	0
490	SLD 13	-48	293	2374	0	0	0
490	SLD 14	-48	293	2374	0	0	0
490	SLD 15	-51	245	2304	0	0	0
490	SLD 16	-51	245	2304	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	N.br.	x	y	z	x	y	z
490	SLV 1	185	336	2443	0	0	0
490	SLV 2	185	336	2443	0	0	0
490	SLV 3	178	251	2320	0	0	0
490	SLV 4	178	251	2320	0	0	0
490	SLV 5	88	424	2567	0	0	0
490	SLV 6	88	424	2567	0	0	0
490	SLV 7	67	141	2157	0	0	0
490	SLV 8	67	141	2157	0	0	0
490	SLV 9	-2	415	2550	0	0	0
490	SLV 10	-2	415	2550	0	0	0
490	SLV 11	-22	131	2140	0	0	0
490	SLV 12	-22	131	2140	0	0	0
490	SLV 13	-113	305	2387	0	0	0
490	SLV 14	-113	305	2387	0	0	0
490	SLV 15	-119	219	2264	0	0	0
490	SLV 16	-119	219	2264	0	0	0
490	SLV FO 1	200	342	2452	0	0	0
490	SLV FO 2	200	342	2452	0	0	0
490	SLV FO 3	193	248	2316	0	0	0
490	SLV FO 4	193	248	2316	0	0	0
490	SLV FO 5	93	439	2588	0	0	0
490	SLV FO 6	93	439	2588	0	0	0
490	SLV FO 7	70	127	2137	0	0	0
490	SLV FO 8	70	127	2137	0	0	0
490	SLV FO 9	-5	428	2570	0	0	0
490	SLV FO 10	-5	428	2570	0	0	0
490	SLV FO 11	-28	117	2119	0	0	0
490	SLV FO 12	-28	117	2119	0	0	0
490	SLV FO 13	-128	307	2391	0	0	0
490	SLV FO 14	-128	307	2391	0	0	0
490	SLV FO 15	-134	214	2255	0	0	0
490	SLV FO 16	-134	214	2255	0	0	0
492	SLU 1	-12	253	2334	0	0	0
492	SLU 2	-12	259	2357	0	0	0
492	SLU 3	-15	288	2463	0	0	0
492	SLU 4	-16	294	2485	0	0	0
492	SLU 5	-16	297	2497	0	0	0
492	SLU 6	-16	329	3034	0	0	0
492	SLU 7	-16	335	3057	0	0	0
492	SLU 8	-19	364	3163	0	0	0
492	SLU 9	-19	370	3186	0	0	0
492	SLU 10	-19	373	3197	0	0	0
492	SLE RA 1	-12	253	2334	0	0	0
492	SLE RA 2	-12	257	2349	0	0	0
492	SLE RA 3	-14	276	2420	0	0	0
492	SLE RA 4	-14	280	2435	0	0	0
492	SLE RA 5	-15	283	2442	0	0	0
492	SLE FR 1	-12	253	2334	0	0	0
492	SLE FR 2	-12	254	2337	0	0	0
492	SLE FR 3	-14	270	2398	0	0	0
492	SLE FR 4	-14	272	2405	0	0	0
492	SLE QP 1	-12	253	2334	0	0	0
492	SLE QP 2	-13	269	2395	0	0	0
492	SLD 1	82	282	2425	0	0	0
492	SLD 2	82	282	2425	0	0	0
492	SLD 3	86	222	2327	0	0	0
492	SLD 4	86	222	2327	0	0	0
492	SLD 5	9	364	2551	0	0	0
492	SLD 6	9	364	2551	0	0	0
492	SLD 7	23	165	2227	0	0	0
492	SLD 8	23	165	2227	0	0	0
492	SLD 9	-50	374	2562	0	0	0
492	SLD 10	-50	374	2562	0	0	0
492	SLD 11	-36	175	2238	0	0	0
492	SLD 12	-36	175	2238	0	0	0
492	SLD 13	-113	317	2462	0	0	0
492	SLD 14	-113	317	2462	0	0	0
492	SLD 15	-109	257	2364	0	0	0
492	SLD 16	-109	257	2364	0	0	0
492	SLV 1	157	291	2448	0	0	0
492	SLV 2	157	291	2448	0	0	0
492	SLV 3	165	185	2275	0	0	0
492	SLV 4	165	185	2275	0	0	0
492	SLV 5	26	437	2674	0	0	0
492	SLV 6	26	437	2674	0	0	0
492	SLV 7	52	83	2096	0	0	0
492	SLV 8	52	83	2096	0	0	0
492	SLV 9	-79	456	2694	0	0	0
492	SLV 10	-79	456	2694	0	0	0
492	SLV 11	-53	102	2115	0	0	0
492	SLV 12	-53	102	2115	0	0	0
492	SLV 13	-192	354	2514	0	0	0
492	SLV 14	-192	354	2514	0	0	0
492	SLV 15	-184	248	2341	0	0	0
492	SLV 16	-184	248	2341	0	0	0
492	SLV FO 1	174	293	2454	0	0	0
492	SLV FO 2	174	293	2454	0	0	0
492	SLV FO 3	183	176	2263	0	0	0
492	SLV FO 4	183	176	2263	0	0	0
492	SLV FO 5	30	454	2702	0	0	0
492	SLV FO 6	30	454	2702	0	0	0
492	SLV FO 7	58	64	2066	0	0	0
492	SLV FO 8	58	64	2066	0	0	0
492	SLV FO 9	-85	475	2724	0	0	0
492	SLV FO 10	-85	475	2724	0	0	0
492	SLV FO 11	-57	85	2088	0	0	0
492	SLV FO 12	-57	85	2088	0	0	0
492	SLV FO 13	-209	362	2526	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	N.br.	x	y	z	x	y	z
492	SLV FO 14	-209	362	2526	0	0	0
492	SLV FO 15	-201	246	2336	0	0	0
492	SLV FO 16	-201	246	2336	0	0	0
492	CRTFP Ux+	0	0	0	0	0	0
492	CRTFP Ux-	0	0	0	0	0	0
492	CRTFP Uy+	0	0	0	0	0	0
492	CRTFP Uy-	0	0	0	0	0	0
573	SLU 1	-16	274	2250	0	0	0
573	SLU 2	-17	281	2273	0	0	0
573	SLU 3	-21	312	2375	0	0	0
573	SLU 4	-22	319	2395	0	0	0
573	SLU 5	-23	322	2406	0	0	0
573	SLU 6	-21	356	2925	0	0	0
573	SLU 7	-21	364	2949	0	0	0
573	SLU 8	-26	395	3050	0	0	0
573	SLU 9	-27	401	3070	0	0	0
573	SLU 10	-27	404	3082	0	0	0
573	SLE RA 1	-16	274	2250	0	0	0
573	SLE RA 2	-16	279	2266	0	0	0
573	SLE RA 3	-19	300	2333	0	0	0
573	SLE RA 4	-20	304	2347	0	0	0
573	SLE RA 5	-20	306	2354	0	0	0
573	SLE FR 1	-16	274	2250	0	0	0
573	SLE FR 2	-16	275	2253	0	0	0
573	SLE FR 3	-19	293	2311	0	0	0
573	SLE FR 4	-19	295	2318	0	0	0
573	SLE QP 1	-16	274	2250	0	0	0
573	SLE QP 2	-19	292	2308	0	0	0
573	SLD 1	72	319	2337	0	0	0
573	SLD 2	72	319	2337	0	0	0
573	SLD 3	77	264	2269	0	0	0
573	SLD 4	77	264	2269	0	0	0
573	SLD 5	0	383	2419	0	0	0
573	SLD 6	0	383	2419	0	0	0
573	SLD 7	19	201	2194	0	0	0
573	SLD 8	19	201	2194	0	0	0
573	SLD 9	-56	383	2422	0	0	0
573	SLD 10	-56	383	2422	0	0	0
573	SLD 11	-37	201	2197	0	0	0
573	SLD 12	-37	201	2197	0	0	0
573	SLD 13	-115	320	2347	0	0	0
573	SLD 14	-115	320	2347	0	0	0
573	SLD 15	-109	265	2280	0	0	0
573	SLD 16	-109	265	2280	0	0	0
573	SLV 1	143	340	2359	0	0	0
573	SLV 2	143	340	2359	0	0	0
573	SLV 3	153	242	2238	0	0	0
573	SLV 4	153	242	2238	0	0	0
573	SLV 5	14	454	2506	0	0	0
573	SLV 6	14	454	2506	0	0	0
573	SLV 7	48	129	2105	0	0	0
573	SLV 8	48	129	2105	0	0	0
573	SLV 9	-86	455	2512	0	0	0
573	SLV 10	-86	455	2512	0	0	0
573	SLV 11	-52	130	2111	0	0	0
573	SLV 12	-52	130	2111	0	0	0
573	SLV 13	-191	342	2378	0	0	0
573	SLV 14	-191	342	2378	0	0	0
573	SLV 15	-181	244	2258	0	0	0
573	SLV 16	-181	244	2258	0	0	0
573	SLV FO 1	159	344	2364	0	0	0
573	SLV FO 2	159	344	2364	0	0	0
573	SLV FO 3	170	237	2231	0	0	0
573	SLV FO 4	170	237	2231	0	0	0
573	SLV FO 5	18	470	2526	0	0	0
573	SLV FO 6	18	470	2526	0	0	0
573	SLV FO 7	55	113	2084	0	0	0
573	SLV FO 8	55	113	2084	0	0	0
573	SLV FO 9	-93	471	2532	0	0	0
573	SLV FO 10	-93	471	2532	0	0	0
573	SLV FO 11	-55	114	2091	0	0	0
573	SLV FO 12	-55	114	2091	0	0	0
573	SLV FO 13	-208	347	2385	0	0	0
573	SLV FO 14	-208	347	2385	0	0	0
573	SLV FO 15	-197	239	2253	0	0	0
573	SLV FO 16	-197	239	2253	0	0	0
573	CRTFP Uy+	0	0	0	0	0	0
573	CRTFP Uy-	0	0	0	0	0	0
660	SLU 1	-23	230	2232	0	0	0
660	SLU 2	-24	236	2256	0	0	0
660	SLU 3	-29	262	2358	0	0	0
660	SLU 4	-31	267	2378	0	0	0
660	SLU 5	-31	270	2390	0	0	0
660	SLU 6	-30	299	2902	0	0	0
660	SLU 7	-30	305	2925	0	0	0
660	SLU 8	-36	331	3027	0	0	0
660	SLU 9	-38	336	3048	0	0	0
660	SLU 10	-38	339	3059	0	0	0
660	SLE RA 1	-23	230	2232	0	0	0
660	SLE RA 2	-23	234	2248	0	0	0
660	SLE RA 3	-27	251	2316	0	0	0
660	SLE RA 4	-28	255	2330	0	0	0
660	SLE RA 5	-28	257	2337	0	0	0
660	SLE FR 1	-23	230	2232	0	0	0
660	SLE FR 2	-23	231	2236	0	0	0
660	SLE FR 3	-26	246	2294	0	0	0
660	SLE FR 4	-27	247	2300	0	0	0
660	SLE QP 1	-23	230	2232	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	N.br.	x	y	z	x	y	z
660	SLE QP 2	-26	245	2291	0	0	0
660	SLD 1	71	267	2313	0	0	0
660	SLD 2	71	267	2313	0	0	0
660	SLD 3	77	217	2259	0	0	0
660	SLD 4	77	217	2259	0	0	0
660	SLD 5	-6	327	2379	0	0	0
660	SLD 6	-6	327	2379	0	0	0
660	SLD 7	14	161	2200	0	0	0
660	SLD 8	14	161	2200	0	0	0
660	SLD 9	-66	329	2382	0	0	0
660	SLD 10	-66	329	2382	0	0	0
660	SLD 11	-46	162	2202	0	0	0
660	SLD 12	-46	162	2202	0	0	0
660	SLD 13	-129	272	2322	0	0	0
660	SLD 14	-129	272	2322	0	0	0
660	SLD 15	-123	222	2268	0	0	0
660	SLD 16	-123	222	2268	0	0	0
660	SLV 1	148	284	2330	0	0	0
660	SLV 2	148	284	2330	0	0	0
660	SLV 3	158	196	2234	0	0	0
660	SLV 4	158	196	2234	0	0	0
660	SLV 5	10	392	2448	0	0	0
660	SLV 6	10	392	2448	0	0	0
660	SLV 7	45	95	2128	0	0	0
660	SLV 8	45	95	2128	0	0	0
660	SLV 9	-97	395	2453	0	0	0
660	SLV 10	-97	395	2453	0	0	0
660	SLV 11	-62	98	2133	0	0	0
660	SLV 12	-62	98	2133	0	0	0
660	SLV 13	-211	294	2347	0	0	0
660	SLV 14	-211	294	2347	0	0	0
660	SLV 15	-200	205	2251	0	0	0
660	SLV 16	-200	205	2251	0	0	0
660	SLV FO 1	165	288	2334	0	0	0
660	SLV FO 2	165	288	2334	0	0	0
660	SLV FO 3	177	191	2229	0	0	0
660	SLV FO 4	177	191	2229	0	0	0
660	SLV FO 5	14	406	2464	0	0	0
660	SLV FO 6	14	406	2464	0	0	0
660	SLV FO 7	52	80	2112	0	0	0
660	SLV FO 8	52	80	2112	0	0	0
660	SLV FO 9	-105	409	2469	0	0	0
660	SLV FO 10	-105	409	2469	0	0	0
660	SLV FO 11	-66	83	2118	0	0	0
660	SLV FO 12	-66	83	2118	0	0	0
660	SLV FO 13	-229	299	2353	0	0	0
660	SLV FO 14	-229	299	2353	0	0	0
660	SLV FO 15	-218	201	2247	0	0	0
660	SLV FO 16	-218	201	2247	0	0	0
660	CRTFP Uy+	0	0	0	0	0	0
660	CRTFP Uy-	0	0	0	0	0	0
745	SLU 1	-20	166	2231	0	0	0
745	SLU 2	-21	170	2254	0	0	0
745	SLU 3	-25	189	2357	0	0	0
745	SLU 4	-27	192	2377	0	0	0
745	SLU 5	-27	195	2389	0	0	0
745	SLU 6	-26	215	2900	0	0	0
745	SLU 7	-27	219	2923	0	0	0
745	SLU 8	-32	238	3026	0	0	0
745	SLU 9	-33	242	3047	0	0	0
745	SLU 10	-34	244	3058	0	0	0
745	SLE RA 1	-20	166	2231	0	0	0
745	SLE RA 2	-20	168	2246	0	0	0
745	SLE RA 3	-24	181	2315	0	0	0
745	SLE RA 4	-25	183	2328	0	0	0
745	SLE RA 5	-25	185	2336	0	0	0
745	SLE FR 1	-20	166	2231	0	0	0
745	SLE FR 2	-20	166	2234	0	0	0
745	SLE FR 3	-23	177	2292	0	0	0
745	SLE FR 4	-23	178	2299	0	0	0
745	SLE QP 1	-20	166	2231	0	0	0
745	SLE QP 2	-23	176	2289	0	0	0
745	SLD 1	75	196	2305	0	0	0
745	SLD 2	75	196	2305	0	0	0
745	SLD 3	79	151	2265	0	0	0
745	SLD 4	79	151	2265	0	0	0
745	SLD 5	-1	249	2354	0	0	0
745	SLD 6	-1	249	2354	0	0	0
745	SLD 7	15	102	2222	0	0	0
745	SLD 8	15	102	2222	0	0	0
745	SLD 9	-61	251	2357	0	0	0
745	SLD 10	-61	251	2357	0	0	0
745	SLD 11	-45	104	2224	0	0	0
745	SLD 12	-45	104	2224	0	0	0
745	SLD 13	-125	201	2314	0	0	0
745	SLD 14	-125	201	2314	0	0	0
745	SLD 15	-121	157	2274	0	0	0
745	SLD 16	-121	157	2274	0	0	0
745	SLV 1	152	211	2317	0	0	0
745	SLV 2	152	211	2317	0	0	0
745	SLV 3	160	132	2246	0	0	0
745	SLV 4	160	132	2246	0	0	0
745	SLV 5	17	306	2405	0	0	0
745	SLV 6	17	306	2405	0	0	0
745	SLV 7	44	44	2169	0	0	0
745	SLV 8	44	44	2169	0	0	0
745	SLV 9	-90	309	2410	0	0	0
745	SLV 10	-90	309	2410	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	N.br.	x	y	z	x	y	z
745	SLV 11	-63	47	2174	0	0	0
745	SLV 12	-63	47	2174	0	0	0
745	SLV 13	-206	221	2332	0	0	0
745	SLV 14	-206	221	2332	0	0	0
745	SLV 15	-198	142	2262	0	0	0
745	SLV 16	-198	142	2262	0	0	0
745	SLV FO 1	169	214	2320	0	0	0
745	SLV FO 2	169	214	2320	0	0	0
745	SLV FO 3	178	128	2242	0	0	0
745	SLV FO 4	178	128	2242	0	0	0
745	SLV FO 5	21	319	2417	0	0	0
745	SLV FO 6	21	319	2417	0	0	0
745	SLV FO 7	51	31	2157	0	0	0
745	SLV FO 8	51	31	2157	0	0	0
745	SLV FO 9	-97	322	2422	0	0	0
745	SLV FO 10	-97	322	2422	0	0	0
745	SLV FO 11	-67	34	2162	0	0	0
745	SLV FO 12	-67	34	2162	0	0	0
745	SLV FO 13	-224	225	2337	0	0	0
745	SLV FO 14	-224	225	2337	0	0	0
745	SLV FO 15	-215	139	2259	0	0	0
745	SLV FO 16	-215	139	2259	0	0	0
745	CRTFP Uy+	0	0	0	0	0	0
745	CRTFP Uy-	0	0	0	0	0	0
831	SLU 1	-15	101	2237	0	0	0
831	SLU 2	-15	104	2260	0	0	0
831	SLU 3	-20	116	2364	0	0	0
831	SLU 4	-21	118	2384	0	0	0
831	SLU 5	-22	119	2396	0	0	0
831	SLU 6	-20	132	2908	0	0	0
831	SLU 7	-20	135	2931	0	0	0
831	SLU 8	-24	146	3035	0	0	0
831	SLU 9	-26	148	3055	0	0	0
831	SLU 10	-26	150	3067	0	0	0
831	SLE RA 1	-15	101	2237	0	0	0
831	SLE RA 2	-15	103	2252	0	0	0
831	SLE RA 3	-18	111	2321	0	0	0
831	SLE RA 4	-19	112	2335	0	0	0
831	SLE RA 5	-19	113	2343	0	0	0
831	SLE FR 1	-15	101	2237	0	0	0
831	SLE FR 2	-15	102	2240	0	0	0
831	SLE FR 3	-18	108	2299	0	0	0
831	SLE FR 4	-18	109	2306	0	0	0
831	SLE QP 1	-15	101	2237	0	0	0
831	SLE QP 2	-18	108	2296	0	0	0
831	SLD 1	81	126	2304	0	0	0
831	SLD 2	81	126	2304	0	0	0
831	SLD 3	84	86	2279	0	0	0
831	SLD 4	84	86	2279	0	0	0
831	SLD 5	8	174	2336	0	0	0
831	SLD 6	8	174	2336	0	0	0
831	SLD 7	17	41	2252	0	0	0
831	SLD 8	17	41	2252	0	0	0
831	SLD 9	-53	175	2339	0	0	0
831	SLD 10	-53	175	2339	0	0	0
831	SLD 11	-43	42	2255	0	0	0
831	SLD 12	-43	42	2255	0	0	0
831	SLD 13	-120	130	2313	0	0	0
831	SLD 14	-120	130	2313	0	0	0
831	SLD 15	-117	90	2287	0	0	0
831	SLD 16	-117	90	2287	0	0	0
831	SLV 1	160	140	2311	0	0	0
831	SLV 2	160	140	2311	0	0	0
831	SLV 3	165	69	2266	0	0	0
831	SLV 4	165	69	2266	0	0	0
831	SLV 5	28	225	2368	0	0	0
831	SLV 6	28	225	2368	0	0	0
831	SLV 7	45	-11	2219	0	0	0
831	SLV 8	45	-11	2219	0	0	0
831	SLV 9	-80	227	2373	0	0	0
831	SLV 10	-80	227	2373	0	0	0
831	SLV 11	-63	-9	2223	0	0	0
831	SLV 12	-63	-9	2223	0	0	0
831	SLV 13	-200	147	2326	0	0	0
831	SLV 14	-200	147	2326	0	0	0
831	SLV 15	-195	76	2281	0	0	0
831	SLV 16	-195	76	2281	0	0	0
831	SLV FO 1	177	143	2312	0	0	0
831	SLV FO 2	177	143	2312	0	0	0
831	SLV FO 3	183	65	2263	0	0	0
831	SLV FO 4	183	65	2263	0	0	0
831	SLV FO 5	32	237	2376	0	0	0
831	SLV FO 6	32	237	2376	0	0	0
831	SLV FO 7	51	-23	2211	0	0	0
831	SLV FO 8	51	-23	2211	0	0	0
831	SLV FO 9	-86	239	2381	0	0	0
831	SLV FO 10	-86	239	2381	0	0	0
831	SLV FO 11	-68	-20	2216	0	0	0
831	SLV FO 12	-68	-20	2216	0	0	0
831	SLV FO 13	-218	151	2329	0	0	0
831	SLV FO 14	-218	151	2329	0	0	0
831	SLV FO 15	-213	73	2279	0	0	0
831	SLV FO 16	-213	73	2279	0	0	0
831	CRTFP Uy+	0	0	0	0	0	0
831	CRTFP Uy-	0	0	0	0	0	0
918	SLU 1	-12	39	2229	0	0	0
918	SLU 2	-12	40	2252	0	0	0
918	SLU 3	-16	45	2356	0	0	0

Nodo	Cont.	Reazione a traslazione			Reazione a rotazione		
Ind.	N.br.	x	y	z	x	y	z
918	SLU 4	-18	46	2376	0	0	0
918	SLU 5	-18	46	2388	0	0	0
918	SLU 6	-16	51	2897	0	0	0
918	SLU 7	-16	52	2921	0	0	0
918	SLU 8	-20	57	3024	0	0	0
918	SLU 9	-21	58	3045	0	0	0
918	SLU 10	-22	58	3057	0	0	0
918	SLE RA 1	-12	39	2229	0	0	0
918	SLE RA 2	-12	40	2244	0	0	0
918	SLE RA 3	-15	43	2313	0	0	0
918	SLE RA 4	-16	44	2327	0	0	0
918	SLE RA 5	-16	44	2335	0	0	0
918	SLE FR 1	-12	39	2229	0	0	0
918	SLE FR 2	-12	39	2232	0	0	0
918	SLE FR 3	-14	42	2291	0	0	0
918	SLE FR 4	-15	42	2298	0	0	0
918	SLE QP 1	-12	39	2229	0	0	0
918	SLE QP 2	-14	42	2288	0	0	0
918	SLD 1	85	60	2289	0	0	0
918	SLD 2	85	60	2289	0	0	0
918	SLD 3	86	22	2279	0	0	0
918	SLD 4	86	22	2279	0	0	0
918	SLD 5	14	104	2304	0	0	0
918	SLD 6	14	104	2304	0	0	0
918	SLD 7	17	-20	2270	0	0	0
918	SLD 8	17	-20	2270	0	0	0
918	SLD 9	-46	104	2306	0	0	0
918	SLD 10	-46	104	2306	0	0	0
918	SLD 11	-42	-20	2272	0	0	0
918	SLD 12	-42	-20	2272	0	0	0
918	SLD 13	-115	61	2297	0	0	0
918	SLD 14	-115	61	2297	0	0	0
918	SLD 15	-113	24	2287	0	0	0
918	SLD 16	-113	24	2287	0	0	0
918	SLV 1	163	74	2289	0	0	0
918	SLV 2	163	74	2289	0	0	0
918	SLV 3	165	7	2271	0	0	0
918	SLV 4	165	7	2271	0	0	0
918	SLV 5	36	152	2316	0	0	0
918	SLV 6	36	152	2316	0	0	0
918	SLV 7	42	-69	2255	0	0	0
918	SLV 8	42	-69	2255	0	0	0
918	SLV 9	-71	153	2320	0	0	0
918	SLV 10	-71	153	2320	0	0	0
918	SLV 11	-65	-68	2260	0	0	0
918	SLV 12	-65	-68	2260	0	0	0
918	SLV 13	-193	77	2304	0	0	0
918	SLV 14	-193	77	2304	0	0	0
918	SLV 15	-192	10	2286	0	0	0
918	SLV 16	-192	10	2286	0	0	0
918	SLV FO 1	180	77	2290	0	0	0
918	SLV FO 2	180	77	2290	0	0	0
918	SLV FO 3	183	4	2270	0	0	0
918	SLV FO 4	183	4	2270	0	0	0
918	SLV FO 5	41	163	2319	0	0	0
918	SLV FO 6	41	163	2319	0	0	0
918	SLV FO 7	48	-80	2252	0	0	0
918	SLV FO 8	48	-80	2252	0	0	0
918	SLV FO 9	-77	164	2324	0	0	0
918	SLV FO 10	-77	164	2324	0	0	0
918	SLV FO 11	-70	-79	2257	0	0	0
918	SLV FO 12	-70	-79	2257	0	0	0
918	SLV FO 13	-211	80	2306	0	0	0
918	SLV FO 14	-211	80	2306	0	0	0
918	SLV FO 15	-209	7	2286	0	0	0
918	SLV FO 16	-209	7	2286	0	0	0

7.4 Pressioni massime sul terreno

***Nodo**: Nodo che interagisce col terreno.*
***Ind.**: indice del nodo.*
***Pressione minima**: situazione in cui si verifica la pressione minima nel nodo.*
***Cont.**: nome breve della condizione o combinazione di carico a cui si riferisce la pressione minima.*
***uz**: spostamento massimo verticale del nodo. [cm]*
***Valore**: pressione minima sul terreno del nodo. [daN/cm²]*
***Pressione massima**: situazione in cui si verifica la pressione massima nel nodo.*
***Cont.**: nome breve della condizione o combinazione di carico a cui si riferisce la pressione massima.*
***uz**: spostamento minimo verticale del nodo. [cm]*
***Valore**: pressione massima sul terreno del nodo. [daN/cm²]*

Compressione estrema massima -1.15516 al nodo di indice 937, di coordinate x = 38, y = 398, z = -30, nel contesto SLU 10.
Spostamento estremo minimo -0.96263 al nodo di indice 937, di coordinate x = 38, y = 398, z = -30, nel contesto SLU 10.
Spostamento estremo massimo -0.40939 al nodo di indice 1880, di coordinate x = 436, y = 955, z = -30, nel contesto SLV fondazioni 9.

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
2	SLU 10	-0.80596	-0.96715	SLV FO 11	-0.43709	-0.5245
3	SLU 10	-0.78757	-0.94509	SLV FO 11	-0.43185	-0.51823
4	SLU 10	-0.76964	-0.92357	SLV FO 11	-0.42677	-0.51212
5	SLU 10	-0.75263	-0.90316	SLV FO 11	-0.42198	-0.50638
6	SLU 10	-0.73708	-0.8845	SLV FO 11	-0.41769	-0.50123
7	SLU 10	-0.72361	-0.86833	SLV FO 11	-0.41411	-0.49694
8	SLU 10	-0.71276	-0.85531	SLV FO 11	-0.41146	-0.49375
9	SLU 10	-0.7049	-0.84589	SLV FO 11	-0.40987	-0.49185
10	SLU 10	-0.70016	-0.8402	SLV FO 11	-0.40941	-0.49129

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
11	SLU 10	-0.69833	-0.838	SLV FO 11	-0.41	-0.492
12	SLU 10	-0.6989	-0.83868	SLV FO 11	-0.41145	-0.49374
13	SLU 10	-0.70112	-0.84134	SLV FO 7	-0.41205	-0.49446
14	SLU 10	-0.70407	-0.84489	SLV FO 7	-0.41254	-0.49504
15	SLU 10	-0.7069	-0.84828	SLV FO 7	-0.41328	-0.49594
16	SLU 10	-0.70894	-0.85072	SLV FO 7	-0.41399	-0.49679
17	SLU 10	-0.70988	-0.85186	SLV FO 7	-0.4145	-0.4974
18	SLU 10	-0.70983	-0.8518	SLV FO 7	-0.41484	-0.49781
19	SLU 10	-0.7092	-0.85105	SLV FO 7	-0.41512	-0.49815
20	SLU 10	-0.70856	-0.85027	SLV FO 7	-0.41555	-0.49866
21	SLU 10	-0.70842	-0.8501	SLV FO 7	-0.41626	-0.49951
22	SLU 10	-0.70913	-0.85096	SLV FO 7	-0.41734	-0.50081
23	SLU 10	-0.71078	-0.85293	SLV FO 7	-0.41877	-0.50252
24	SLU 10	-0.71314	-0.85577	SLV FO 7	-0.42038	-0.50446
25	SLU 10	-0.71577	-0.85893	SLV FO 7	-0.42196	-0.50635
26	SLU 10	-0.71807	-0.86168	SLV FO 7	-0.42321	-0.50785
27	SLU 10	-0.71945	-0.86334	SLV FO 11	-0.42363	-0.50836
28	SLU 10	-0.71956	-0.86347	SLV FO 11	-0.42336	-0.50804
29	SLU 10	-0.71837	-0.86205	SLV FO 11	-0.42254	-0.50705
30	SLU 10	-0.71624	-0.85949	SLV FO 11	-0.42129	-0.50555
31	SLU 10	-0.7138	-0.85656	SLV FO 11	-0.41988	-0.50385
32	SLU 10	-0.71179	-0.85415	SLV FO 11	-0.4186	-0.50232
33	SLU 10	-0.71089	-0.85307	SLV FO 11	-0.41777	-0.50132
34	SLU 10	-0.71157	-0.85389	SLV FO 11	-0.4176	-0.50112
35	SLU 10	-0.71401	-0.85681	SLV FO 11	-0.41822	-0.50186
36	SLU 10	-0.71805	-0.86166	SLV FO 11	-0.4196	-0.50352
37	SLU 10	-0.72324	-0.86789	SLV FO 11	-0.42158	-0.5059
38	SLU 10	-0.72888	-0.87466	SLV FO 11	-0.42392	-0.5087
39	SLU 10	-0.73416	-0.881	SLV FO 11	-0.42626	-0.51152
40	SLU 10	-0.7383	-0.88596	SLV FO 11	-0.42827	-0.51392
41	SLU 10	-0.74069	-0.88882	SLV FO 11	-0.42962	-0.51554
42	SLU 10	-0.74097	-0.88917	SLV FO 7	-0.43009	-0.5161
43	SLU 10	-0.73913	-0.88695	SLV FO 7	-0.4297	-0.51564
44	SLU 10	-0.73545	-0.88254	SLV FO 7	-0.42869	-0.51443
45	SLU 10	-0.7305	-0.8766	SLV FO 7	-0.4274	-0.51288
46	SLU 10	-0.72506	-0.87007	SLV FO 7	-0.4262	-0.51144
47	SLU 10	-0.71992	-0.86391	SLV FO 7	-0.42543	-0.51052
48	SLU 10	-0.71583	-0.859	SLV FO 7	-0.42537	-0.51045
49	SLU 10	-0.71331	-0.85597	SLV FO 7	-0.42618	-0.51142
50	SLU 10	-0.71257	-0.85508	SLV FO 7	-0.42789	-0.51347
51	SLU 10	-0.71351	-0.85621	SLV FO 7	-0.43038	-0.51646
52	SLU 10	-0.71572	-0.85886	SLV FO 7	-0.43342	-0.5201
53	SLU 10	-0.71856	-0.86227	SLV FO 7	-0.43667	-0.524
54	SLU 10	-0.72128	-0.86554	SLV FO 7	-0.43979	-0.52774
55	SLU 10	-0.72322	-0.86786	SLV FO 7	-0.44249	-0.53098
56	SLU 10	-0.72396	-0.86875	SLV FO 7	-0.44461	-0.53353
57	SLU 10	-0.72344	-0.86812	SLV FO 7	-0.44617	-0.5354
58	SLU 10	-0.72196	-0.86635	SLV FO 7	-0.44732	-0.53678
59	SLU 10	-0.72008	-0.86409	SLV FO 7	-0.44832	-0.53798
60	SLU 10	-0.7184	-0.86208	SLV FO 11	-0.44888	-0.53866
61	SLU 10	-0.71744	-0.86092	SLV FO 11	-0.44939	-0.53927
62	SLU 10	-0.71744	-0.86093	SLV FO 11	-0.45025	-0.5403
63	SLU 10	-0.71839	-0.86207	SLV FO 11	-0.45149	-0.54178
64	SLU 10	-0.71998	-0.86398	SLV FO 11	-0.45297	-0.54357
65	SLU 10	-0.72167	-0.866	SLV FO 11	-0.45448	-0.54537
66	SLU 10	-0.72285	-0.86742	SLV FO 11	-0.45572	-0.54686
67	SLU 10	-0.72297	-0.86757	SLV FO 11	-0.45644	-0.54773
68	SLU 10	-0.72176	-0.86611	SLV FO 11	-0.4565	-0.5478
69	SLU 10	-0.71926	-0.86312	SLV FO 11	-0.45591	-0.5471
70	SLU 10	-0.7159	-0.85908	SLV FO 11	-0.45485	-0.54582
71	SLU 10	-0.71232	-0.85478	SLV FO 11	-0.45403	-0.54484
72	SLU 10	-0.70919	-0.85103	SLV FO 11	-0.45314	-0.54377
73	SLU 10	-0.70713	-0.84855	SLV FO 7	-0.45164	-0.54197
74	SLU 10	-0.70649	-0.84779	SLV FO 7	-0.45063	-0.54076
75	SLU 10	-0.70739	-0.84887	SLV FO 7	-0.45024	-0.54028
76	SLU 10	-0.70968	-0.85162	SLV FO 7	-0.45041	-0.54049
77	SLU 10	-0.713	-0.8556	SLV FO 7	-0.451	-0.5412
78	SLU 10	-0.71688	-0.86026	SLV FO 7	-0.45181	-0.54217
79	SLU 10	-0.72085	-0.86502	SLV FO 7	-0.45264	-0.54317
80	SLU 10	-0.72456	-0.86947	SLV FO 7	-0.45334	-0.54401
81	SLU 10	-0.72785	-0.87342	SLV FO 7	-0.45382	-0.54459
82	SLU 10	-0.73072	-0.87687	SLV FO 7	-0.45403	-0.54484
83	SLU 10	-0.73323	-0.87987	SLV FO 7	-0.45393	-0.54471
84	SLU 10	-0.7353	-0.88235	SLV FO 3	-0.45133	-0.5416
86	SLU 10	-0.73644	-0.88373	SLV FO 3	-0.44142	-0.5297
87	SLU 10	-0.83364	-1.00036	SLV FO 11	-0.46197	-0.55436
89	SLU 10	-0.7415	-0.8898	SLV FO 3	-0.44579	-0.53494
90	SLU 10	-0.72486	-0.86983	SLV FO 11	-0.43324	-0.51989
91	SLU 10	-0.73459	-0.88151	SLV FO 7	-0.44235	-0.53082
92	SLU 10	-0.7353	-0.88236	SLV FO 11	-0.44146	-0.52975
93	SLU 10	-0.74205	-0.89046	SLV FO 11	-0.47238	-0.56686
94	SLU 10	-0.72728	-0.87274	SLV FO 7	-0.47045	-0.56454
95	SLU 10	-0.72954	-0.87545	SLV FO 11	-0.43366	-0.52039
96	SLU 10	-0.72335	-0.86802	SLV FO 11	-0.43399	-0.52079
97	SLU 10	-0.734	-0.88079	SLV FO 7	-0.4413	-0.52956
98	SLU 10	-0.73637	-0.88364	SLV FO 7	-0.44385	-0.53262
99	SLU 10	-0.7349	-0.88188	SLV FO 11	-0.44178	-0.53013
100	SLU 10	-0.73773	-0.88528	SLV FO 11	-0.44205	-0.53046
101	SLU 10	-0.73698	-0.88438	SLV FO 7	-0.44947	-0.53937
102	SLU 10	-0.73645	-0.88374	SLV FO 7	-0.45125	-0.5415
103	SLU 10	-0.74334	-0.89201	SLV FO 11	-0.47214	-0.56657
104	SLU 10	-0.74196	-0.89035	SLV FO 11	-0.47308	-0.56769
105	SLU 10	-0.7303	-0.87636	SLV FO 7	-0.47268	-0.56722
106	SLU 10	-0.72584	-0.87101	SLV FO 7	-0.46884	-0.56261
107	SLU 10	-0.7419	-0.89028	SLV FO 3	-0.45655	-0.54786
108	SLU 10	-0.73761	-0.88513	SLV FO 11	-0.43532	-0.52239
109	SLU 10	-0.72447	-0.86937	SLV FO 11	-0.43571	-0.52285
110	SLU 10	-0.73449	-0.88139	SLV FO 7	-0.44072	-0.52886

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
111	SLU 10	-0.73908	-0.8869	SLV FO 7	-0.44563	-0.53475
112	SLU 10	-0.73633	-0.8836	SLV FO 11	-0.44286	-0.53144
113	SLU 10	-0.74204	-0.89044	SLV FO 11	-0.44352	-0.53223
114	SLU 10	-0.73958	-0.88749	SLV FO 7	-0.44872	-0.53846
115	SLU 10	-0.73786	-0.88543	SLV FO 7	-0.45393	-0.54471
116	SLU 10	-0.74553	-0.89463	SLV FO 7	-0.47161	-0.56593
117	SLU 10	-0.74303	-0.89163	SLV FO 11	-0.47425	-0.5691
118	SLU 10	-0.73449	-0.88139	SLV FO 11	-0.4747	-0.56964
119	SLU 10	-0.72606	-0.87128	SLV FO 7	-0.46791	-0.56149
120	SLU 10	-0.74182	-0.89018	SLV FO 7	-0.46526	-0.55832
121	SLU 10	-0.74892	-0.8987	SLV FO 11	-0.43816	-0.52579
122	SLU 10	-0.72739	-0.87286	SLV FO 7	-0.43768	-0.52521
123	SLU 10	-0.73568	-0.88281	SLV FO 7	-0.44053	-0.52864
124	SLU 10	-0.7422	-0.89064	SLV FO 7	-0.4474	-0.53688
125	SLU 10	-0.73907	-0.88688	SLV FO 11	-0.44447	-0.53337
126	SLU 10	-0.74771	-0.89725	SLV FO 11	-0.44572	-0.53487
127	SLU 10	-0.74401	-0.89281	SLV FO 7	-0.44897	-0.53876
128	SLU 10	-0.74074	-0.88889	SLV FO 7	-0.45722	-0.54867
129	SLU 10	-0.74802	-0.89762	SLV FO 7	-0.47098	-0.56517
130	SLU 10	-0.74491	-0.89389	SLV FO 11	-0.47578	-0.57093
131	SLU 10	-0.7392	-0.88704	SLV FO 11	-0.47618	-0.57142
132	SLU 10	-0.72777	-0.87332	SLV FO 7	-0.46758	-0.5611
133	SLU 10	-0.74138	-0.88965	SLV FO 7	-0.46645	-0.55975
134	SLU 10	-0.76304	-0.91564	SLV FO 11	-0.442	-0.5304
135	SLU 10	-0.73107	-0.87728	SLV FO 7	-0.43844	-0.52612
136	SLU 10	-0.73692	-0.8843	SLV FO 7	-0.44054	-0.52865
137	SLU 10	-0.74499	-0.89398	SLV FO 11	-0.44863	-0.53836
138	SLU 10	-0.74232	-0.89078	SLV FO 11	-0.44626	-0.53551
139	SLU 10	-0.75398	-0.90477	SLV FO 11	-0.44835	-0.53802
140	SLU 10	-0.7497	-0.89964	SLV FO 7	-0.45005	-0.54007
141	SLU 10	-0.74436	-0.89323	SLV FO 7	-0.46078	-0.55294
142	SLU 10	-0.75006	-0.90007	SLV FO 7	-0.47021	-0.56425
143	SLU 10	-0.74698	-0.89637	SLV FO 11	-0.47739	-0.57286
144	SLU 10	-0.7436	-0.89232	SLV FO 11	-0.47798	-0.57358
145	SLU 10	-0.7305	-0.8766	SLV FO 7	-0.46767	-0.5612
146	SLU 10	-0.74047	-0.88857	SLV FO 7	-0.46733	-0.56079
147	SLU 10	-0.81515	-0.97818	SLV FO 11	-0.45677	-0.54813
148	SLU 10	-0.77929	-0.93514	SLV FO 11	-0.44658	-0.5359
149	SLU 10	-0.73446	-0.88136	SLV FO 7	-0.43939	-0.52727
150	SLU 10	-0.73747	-0.88497	SLV FO 7	-0.44049	-0.52859
151	SLU 10	-0.7467	-0.89604	SLV FO 11	-0.44908	-0.5389
152	SLU 10	-0.74518	-0.89421	SLV FO 11	-0.44783	-0.5374
153	SLU 10	-0.7478	-0.89736	SLV FO 7	-0.46417	-0.55701
154	SLU 10	-0.75094	-0.90113	SLV FO 7	-0.46897	-0.56276
155	SLU 10	-0.74845	-0.89814	SLV FO 11	-0.47871	-0.57445
156	SLU 10	-0.74691	-0.89629	SLV FO 11	-0.4791	-0.57492
157	SLU 10	-0.73366	-0.88039	SLV FO 7	-0.46791	-0.56149
158	SLU 10	-0.73892	-0.88671	SLV FO 7	-0.46787	-0.56144
159	SLU 10	-0.75991	-0.91189	SLV FO 11	-0.45102	-0.54122
160	SLU 10	-0.79689	-0.95627	SLV FO 11	-0.4516	-0.54192
161	SLU 10	-0.73673	-0.88408	SLV FO 7	-0.44015	-0.52818
162	SLU 10	-0.74681	-0.89617	SLV FO 11	-0.44884	-0.53861
163	SLU 10	-0.75019	-0.90023	SLV FO 7	-0.46699	-0.56038
164	SLU 10	-0.74857	-0.89829	SLV FO 11	-0.47936	-0.57524
165	SLU 10	-0.73661	-0.88394	SLV FO 7	-0.46805	-0.56166
166	SLU 10	-0.75607	-0.90728	SLV FO 7	-0.45185	-0.54222
167	SLU 10	-0.76172	-0.91407	SLV FO 7	-0.4536	-0.54432
168	SLU 10	-0.76482	-0.91778	SLV FO 11	-0.45354	-0.54424
169	SLU 10	-0.7676	-0.92111	SLV FO 11	-0.45509	-0.54611
170	SLU 10	-0.76798	-0.92157	SLV FO 7	-0.45557	-0.54668
171	SLU 10	-0.76606	-0.91928	SLV FO 7	-0.45511	-0.54613
172	SLU 10	-0.86134	-1.03361	SLV FO 11	-0.4869	-0.58428
174	SLU 10	-0.74577	-0.89492	SLV FO 3	-0.44973	-0.53968
175	SLU 10	-0.74871	-0.89845	SLV FO 11	-0.45676	-0.54811
176	SLU 10	-0.75943	-0.91131	SLV FO 7	-0.46714	-0.56057
177	SLU 10	-0.75829	-0.90995	SLV FO 11	-0.46503	-0.55804
178	SLU 10	-0.76608	-0.91929	SLV FO 11	-0.49514	-0.59417
179	SLU 10	-0.74695	-0.89635	SLV FO 7	-0.48907	-0.58688
180	SLU 10	-0.7482	-0.89784	SLV FO 3	-0.4616	-0.55391
181	SLU 10	-0.75331	-0.90397	SLV FO 11	-0.45714	-0.54857
182	SLU 10	-0.74762	-0.89715	SLV FO 11	-0.4577	-0.54924
183	SLU 10	-0.75898	-0.91077	SLV FO 7	-0.46611	-0.55933
184	SLU 10	-0.7614	-0.91367	SLV FO 7	-0.46876	-0.56251
185	SLU 10	-0.75822	-0.90987	SLV FO 11	-0.46553	-0.55864
186	SLU 10	-0.76074	-0.91289	SLV FO 11	-0.46559	-0.55871
187	SLU 10	-0.76777	-0.92132	SLV FO 7	-0.49517	-0.59421
188	SLU 10	-0.76589	-0.91907	SLV FO 11	-0.49565	-0.59478
189	SLU 10	-0.75099	-0.90118	SLV FO 7	-0.49199	-0.59039
190	SLU 10	-0.74472	-0.89366	SLV FO 7	-0.48688	-0.58425
191	SLU 10	-0.75992	-0.91191	SLV FO 7	-0.47246	-0.56695
192	SLU 10	-0.75964	-0.91157	SLV FO 7	-0.47434	-0.56921
193	SLU 10	-0.76165	-0.91398	SLV FO 11	-0.45892	-0.5507
194	SLU 10	-0.74949	-0.89938	SLV FO 11	-0.45977	-0.55173
195	SLU 10	-0.75995	-0.91194	SLV FO 7	-0.46571	-0.55885
196	SLU 10	-0.76461	-0.91754	SLV FO 7	-0.47078	-0.56494
197	SLU 10	-0.76033	-0.91239	SLV FO 11	-0.46695	-0.56034
198	SLU 10	-0.76541	-0.91849	SLV FO 11	-0.46721	-0.56065
199	SLU 10	-0.76263	-0.91516	SLV FO 7	-0.47177	-0.56613
200	SLU 10	-0.76163	-0.91396	SLV FO 7	-0.47727	-0.57272
201	SLU 10	-0.77064	-0.92476	SLV FO 7	-0.49475	-0.5937
202	SLU 10	-0.7672	-0.92063	SLV FO 11	-0.49682	-0.59618
203	SLU 10	-0.7564	-0.90768	SLV FO 11	-0.49532	-0.59438
204	SLU 10	-0.74437	-0.89324	SLV FO 7	-0.48546	-0.58255
205	SLU 10	-0.75033	-0.90039	SLV FO 3	-0.47267	-0.56721
206	SLU 10	-0.77358	-0.9283	SLV FO 11	-0.46202	-0.55443
207	SLU 10	-0.75339	-0.90407	SLV FO 11	-0.46263	-0.55516
208	SLU 10	-0.76191	-0.91429	SLV FO 7	-0.46586	-0.55903
209	SLU 10	-0.76848	-0.92218	SLV FO 11	-0.47278	-0.56734

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
210	SLU 10	-0.76403	-0.91684	SLV FO 11	-0.46903	-0.56283
211	SLU 10	-0.77177	-0.92612	SLV FO 11	-0.46972	-0.56366
212	SLU 10	-0.76755	-0.92106	SLV FO 7	-0.47229	-0.56674
213	SLU 10	-0.76542	-0.91851	SLV FO 7	-0.48097	-0.57717
214	SLU 10	-0.77401	-0.92881	SLV FO 7	-0.49463	-0.59356
215	SLU 10	-0.7696	-0.92352	SLV FO 11	-0.4985	-0.5982
216	SLU 10	-0.76247	-0.91496	SLV FO 11	-0.49804	-0.59765
217	SLU 10	-0.74566	-0.8948	SLV FO 7	-0.48473	-0.58167
218	SLU 10	-0.75214	-0.90256	SLV FO 7	-0.47892	-0.57471
219	SLU 10	-0.78861	-0.94633	SLV FO 11	-0.46628	-0.55953
220	SLU 10	-0.75818	-0.90982	SLV FO 7	-0.46447	-0.55736
221	SLU 10	-0.77212	-0.92654	SLV FO 11	-0.47407	-0.56889
222	SLU 10	-0.77697	-0.93236	SLV FO 7	-0.49446	-0.59335
223	SLU 10	-0.76824	-0.92188	SLV FO 11	-0.50029	-0.60035
224	SLU 10	-0.74808	-0.89769	SLV FO 7	-0.48445	-0.58133
225	SLU 10	-0.75341	-0.90409	SLV FO 7	-0.48099	-0.57719
226	SLU 10	-0.77895	-0.93474	SLV FO 11	-0.47281	-0.56737
227	SLU 10	-0.84288	-1.01146	SLV FO 11	-0.4819	-0.57828
228	SLU 10	-0.77044	-0.92453	SLV FO 7	-0.48529	-0.58235
229	SLU 10	-0.77262	-0.92715	SLV FO 11	-0.50062	-0.60074
230	SLU 10	-0.77437	-0.92925	SLV FO 7	-0.47407	-0.56889
231	SLU 10	-0.80589	-0.96707	SLV FO 11	-0.47135	-0.56562
232	SLU 10	-0.76873	-0.92247	SLV FO 11	-0.47162	-0.56595
233	SLU 10	-0.76252	-0.91503	SLV FO 7	-0.46584	-0.55901
234	SLU 10	-0.77451	-0.92941	SLV FO 11	-0.47491	-0.56989
235	SLU 10	-0.77852	-0.93423	SLV FO 7	-0.49375	-0.5925
236	SLU 10	-0.77266	-0.9272	SLV FO 11	-0.50213	-0.60256
237	SLU 10	-0.75379	-0.90454	SLV FO 7	-0.48267	-0.5792
238	SLU 10	-0.76443	-0.91732	SLV FO 7	-0.46665	-0.55998
239	SLU 10	-0.82433	-0.9892	SLV FO 11	-0.47673	-0.57208
240	SLU 10	-0.77478	-0.92974	SLV FO 11	-0.50228	-0.60273
241	SLU 10	-0.78606	-0.94327	SLV FO 11	-0.47623	-0.57148
242	SLU 10	-0.77274	-0.92728	SLV FO 11	-0.47377	-0.56853
243	SLU 10	-0.76583	-0.919	SLV FO 7	-0.46707	-0.56049
244	SLU 10	-0.75101	-0.90121	SLV FO 7	-0.48445	-0.58134
245	SLU 10	-0.77511	-0.93013	SLV FO 7	-0.48926	-0.58711
246	SLU 10	-0.77811	-0.93374	SLV FO 7	-0.49224	-0.59069
247	SLU 10	-0.775	-0.93	SLV FO 11	-0.47507	-0.57008
248	SLU 10	-0.7531	-0.90371	SLV FO 7	-0.48394	-0.58073
249	SLU 10	-0.77515	-0.93018	SLV FO 11	-0.50304	-0.60365
250	SLU 10	-0.76553	-0.91863	SLV FO 7	-0.46706	-0.56047
251	SLU 10	-0.78193	-0.93831	SLV FO 7	-0.47661	-0.57193
252	SLU 10	-0.79201	-0.95042	SLV FO 11	-0.47945	-0.57534
253	SLU 10	-0.78879	-0.94654	SLV FO 7	-0.47917	-0.575
254	SLU 10	-0.79355	-0.95226	SLV FO 7	-0.48095	-0.57714
255	SLU 10	-0.79583	-0.955	SLV FO 7	-0.48177	-0.57812
256	SLU 10	-0.79535	-0.95443	SLV FO 11	-0.48133	-0.57759
257	SLU 10	-0.88844	-1.06613	SLV FO 11	-0.51175	-0.6141
259	SLU 10	-0.7495	-0.8994	SLV FO 3	-0.45336	-0.54403
260	SLU 10	-0.77114	-0.92536	SLV FO 11	-0.47979	-0.57575
261	SLU 10	-0.78304	-0.93964	SLV FO 7	-0.49152	-0.58982
262	SLU 10	-0.77995	-0.93594	SLV FO 11	-0.48814	-0.58577
263	SLU 10	-0.78894	-0.94673	SLV FO 11	-0.51743	-0.62092
264	SLU 10	-0.76572	-0.91886	SLV FO 7	-0.50734	-0.60881
265	SLU 10	-0.75413	-0.90496	SLV FO 3	-0.46639	-0.55967
266	SLU 10	-0.77563	-0.93075	SLV FO 11	-0.48014	-0.57617
267	SLU 10	-0.77058	-0.92469	SLV FO 11	-0.48097	-0.57716
268	SLU 10	-0.78275	-0.9393	SLV FO 7	-0.4905	-0.5886
269	SLU 10	-0.78526	-0.94231	SLV FO 7	-0.49332	-0.59198
270	SLU 10	-0.78028	-0.93633	SLV FO 11	-0.48887	-0.58664
271	SLU 10	-0.78243	-0.93891	SLV FO 11	-0.48867	-0.5864
272	SLU 10	-0.79111	-0.94933	SLV FO 7	-0.51751	-0.62101
273	SLU 10	-0.78869	-0.94643	SLV FO 11	-0.51776	-0.62131
274	SLU 10	-0.7708	-0.92496	SLV FO 7	-0.51096	-0.61315
275	SLU 10	-0.76274	-0.91529	SLV FO 7	-0.50461	-0.60553
276	SLU 10	-0.78154	-0.93785	SLV FO 7	-0.49495	-0.59394
277	SLU 10	-0.78154	-0.93785	SLV FO 7	-0.49697	-0.59636
278	SLU 10	-0.78429	-0.94114	SLV FO 11	-0.48209	-0.57851
279	SLU 10	-0.77338	-0.92805	SLV FO 11	-0.48348	-0.58018
280	SLU 10	-0.78433	-0.9412	SLV FO 7	-0.49033	-0.5884
281	SLU 10	-0.78916	-0.94699	SLV FO 7	-0.49569	-0.59483
282	SLU 10	-0.7832	-0.93984	SLV FO 11	-0.49072	-0.58887
283	SLU 10	-0.78755	-0.94506	SLV FO 11	-0.49047	-0.58857
284	SLU 10	-0.79485	-0.95381	SLV FO 7	-0.51756	-0.62107
285	SLU 10	-0.79034	-0.94841	SLV FO 11	-0.51897	-0.62276
286	SLU 10	-0.77757	-0.93309	SLV FO 7	-0.51529	-0.61835
287	SLU 10	-0.76194	-0.91433	SLV FO 7	-0.5028	-0.60335
288	SLU 10	-0.75861	-0.91033	SLV FO 3	-0.47874	-0.57449
289	SLU 10	-0.7844	-0.94128	SLV FO 7	-0.49436	-0.59323
290	SLU 10	-0.78427	-0.94112	SLV FO 7	-0.50025	-0.60031
291	SLU 10	-0.77864	-0.93436	SLV FO 11	-0.48703	-0.58443
292	SLU 10	-0.79412	-0.95294	SLV FO 11	-0.49771	-0.59725
293	SLU 10	-0.79946	-0.95935	SLV FO 7	-0.51815	-0.62178
294	SLU 10	-0.78531	-0.94237	SLV FO 11	-0.51943	-0.62331
295	SLU 10	-0.76287	-0.91545	SLV FO 3	-0.49045	-0.58854
296	SLU 10	-0.79481	-0.95378	SLV FO 11	-0.49343	-0.59212
297	SLU 10	-0.78951	-0.94741	SLV FO 7	-0.5048	-0.60576
298	SLU 10	-0.76325	-0.9159	SLV FO 7	-0.50195	-0.60234
299	SLU 10	-0.79379	-0.95254	SLV FO 11	-0.52119	-0.62543
300	SLU 10	-0.78762	-0.94514	SLV FO 7	-0.49122	-0.58947
301	SLU 10	-0.78845	-0.94614	SLV FO 11	-0.49372	-0.59246
302	SLU 10	-0.79727	-0.95673	SLV FO 11	-0.48587	-0.58304
303	SLU 10	-0.79031	-0.94838	SLV FO 7	-0.49553	-0.59464
304	SLU 10	-0.78513	-0.94215	SLV FO 7	-0.49071	-0.58886
305	SLU 10	-0.79919	-0.95903	SLV FO 11	-0.49973	-0.59968
306	SLU 10	-0.80392	-0.9647	SLV FO 7	-0.51893	-0.62272
307	SLU 10	-0.79296	-0.95155	SLV FO 11	-0.52289	-0.62746
308	SLU 10	-0.76665	-0.91998	SLV FO 7	-0.49489	-0.59386

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
309	SLU 10	-0.80332	-0.96398	SLV FO 11	-0.49727	-0.59673
310	SLU 10	-0.76579	-0.91895	SLV FO 7	-0.50157	-0.60189
311	SLU 10	-0.81369	-0.97643	SLV FO 11	-0.49087	-0.58905
312	SLU 10	-0.87059	-1.0447	SLV FO 11	-0.50744	-0.60893
313	SLU 10	-0.79629	-0.95554	SLV FO 7	-0.51004	-0.61205
314	SLU 10	-0.79815	-0.95778	SLV FO 11	-0.52401	-0.62882
315	SLU 10	-0.7917	-0.95004	SLV FO 7	-0.49286	-0.59143
316	SLU 10	-0.79849	-0.95819	SLV FO 7	-0.49814	-0.59776
317	SLU 10	-0.79503	-0.95403	SLV FO 11	-0.49737	-0.59684
318	SLU 10	-0.79117	-0.9494	SLV FO 7	-0.49299	-0.59159
319	SLU 10	-0.80298	-0.96357	SLV FO 11	-0.50146	-0.60175
320	SLU 10	-0.79914	-0.95897	SLV FO 11	-0.5259	-0.63108
321	SLU 10	-0.76935	-0.92322	SLV FO 7	-0.49798	-0.59758
322	SLU 10	-0.81191	-0.97429	SLV FO 11	-0.50164	-0.60197
323	SLU 10	-0.83259	-0.99911	SLV FO 11	-0.4968	-0.59616
324	SLU 10	-0.80715	-0.96857	SLV FO 7	-0.51956	-0.62347
325	SLU 10	-0.76875	-0.9225	SLV FO 7	-0.50139	-0.60166
326	SLU 10	-0.80086	-0.96103	SLV FO 11	-0.50047	-0.60056
327	SLU 10	-0.79475	-0.9537	SLV FO 7	-0.49429	-0.59315
328	SLU 10	-0.8019	-0.96228	SLV FO 11	-0.52664	-0.63197
329	SLU 10	-0.80312	-0.96375	SLV FO 7	-0.51523	-0.61828
330	SLU 10	-0.85233	-1.0228	SLV FO 11	-0.50285	-0.60342
331	SLU 10	-0.80776	-0.96931	SLV FO 7	-0.50173	-0.60207
332	SLU 10	-0.79511	-0.95413	SLV FO 7	-0.49476	-0.59371
333	SLU 10	-0.80417	-0.96501	SLV FO 11	-0.50228	-0.60273
334	SLU 10	-0.77043	-0.92451	SLV FO 7	-0.5005	-0.6006
335	SLU 10	-0.80276	-0.96332	SLV FO 11	-0.52768	-0.63321
336	SLU 10	-0.80731	-0.96877	SLV FO 7	-0.51874	-0.62249
337	SLU 10	-0.81942	-0.9833	SLV FO 11	-0.50606	-0.60727
338	SLU 10	-0.81636	-0.97964	SLV FO 7	-0.50553	-0.60664
339	SLU 10	-0.82173	-0.98607	SLV FO 7	-0.50778	-0.60934
340	SLU 10	-0.82415	-0.98897	SLV FO 7	-0.50884	-0.61061
341	SLU 10	-0.82346	-0.98815	SLV FO 11	-0.50838	-0.61005
342	SLU 10	-0.91343	-1.09611	SLV FO 15	-0.52785	-0.63341
344	SLU 10	-0.7529	-0.90348	SLV FO 3	-0.45678	-0.54814
345	SLU 10	-0.7915	-0.9498	SLV FO 11	-0.50216	-0.6026
346	SLU 10	-0.80471	-0.96565	SLV FO 7	-0.51528	-0.61834
347	SLU 10	-0.79964	-0.95957	SLV FO 11	-0.51059	-0.61271
348	SLU 10	-0.80997	-0.97196	SLV FO 11	-0.53901	-0.64682
349	SLU 10	-0.78304	-0.93965	SLV FO 7	-0.52508	-0.6301
350	SLU 10	-0.75964	-0.91157	SLV FO 3	-0.47091	-0.56509
351	SLU 10	-0.79583	-0.955	SLV FO 11	-0.50249	-0.60299
352	SLU 10	-0.79151	-0.94981	SLV FO 11	-0.50359	-0.60431
353	SLU 10	-0.80459	-0.96551	SLV FO 7	-0.51426	-0.61712
354	SLU 10	-0.8072	-0.96865	SLV FO 7	-0.5173	-0.62076
355	SLU 10	-0.80039	-0.96046	SLV FO 11	-0.51159	-0.61391
356	SLU 10	-0.80211	-0.96253	SLV FO 11	-0.51108	-0.6133
357	SLU 10	-0.81262	-0.97514	SLV FO 7	-0.53913	-0.64696
358	SLU 10	-0.80966	-0.97159	SLV FO 11	-0.53914	-0.64697
359	SLU 10	-0.78912	-0.94694	SLV FO 7	-0.52937	-0.63524
360	SLU 10	-0.77939	-0.93527	SLV FO 7	-0.52186	-0.62623
361	SLU 10	-0.80118	-0.96142	SLV FO 7	-0.51676	-0.62012
362	SLU 10	-0.80151	-0.96182	SLV FO 7	-0.51894	-0.62272
363	SLU 10	-0.7664	-0.91968	SLV FO 3	-0.48446	-0.58136
364	SLU 10	-0.79532	-0.95439	SLV FO 11	-0.5066	-0.60792
365	SLU 10	-0.81184	-0.97421	SLV FO 11	-0.51977	-0.62372
366	SLU 10	-0.80768	-0.96921	SLV FO 11	-0.5131	-0.61572
367	SLU 10	-0.81728	-0.98074	SLV FO 7	-0.5397	-0.64764
368	SLU 10	-0.81171	-0.97406	SLV FO 11	-0.54041	-0.6485
369	SLU 10	-0.79725	-0.9567	SLV FO 7	-0.53458	-0.6415
370	SLU 10	-0.77826	-0.93391	SLV FO 7	-0.51975	-0.62369
371	SLU 10	-0.80419	-0.96503	SLV FO 7	-0.51628	-0.61954
372	SLU 10	-0.80522	-0.96627	SLV FO 7	-0.52285	-0.62742
373	SLU 10	-0.80443	-0.96532	SLV FO 11	-0.51423	-0.61707
374	SLU 10	-0.80503	-0.96603	SLV FO 11	-0.50492	-0.60591
375	SLU 10	-0.80708	-0.9685	SLV FO 7	-0.51464	-0.61756
376	SLU 10	-0.80212	-0.96255	SLV FO 11	-0.51099	-0.61319
377	SLU 10	-0.81808	-0.9817	SLV FO 11	-0.5222	-0.62664
378	SLU 10	-0.82332	-0.98798	SLV FO 7	-0.54117	-0.6494
379	SLU 10	-0.80677	-0.96812	SLV FO 7	-0.54048	-0.64857
380	SLU 10	-0.77314	-0.92777	SLV FO 3	-0.49752	-0.59703
381	SLU 10	-0.81589	-0.97907	SLV FO 11	-0.51662	-0.61994
382	SLU 10	-0.8107	-0.97285	SLV FO 7	-0.51782	-0.62139
383	SLU 10	-0.81166	-0.97399	SLV FO 7	-0.52798	-0.63358
384	SLU 10	-0.77961	-0.93553	SLV FO 7	-0.51882	-0.62258
385	SLU 10	-0.81633	-0.97959	SLV FO 11	-0.54327	-0.65193
386	SLU 10	-0.81111	-0.97334	SLV FO 11	-0.51805	-0.62166
387	SLU 10	-0.81887	-0.98264	SLV FO 11	-0.50927	-0.61113
388	SLU 10	-0.81184	-0.97421	SLV FO 7	-0.51641	-0.6197
389	SLU 10	-0.8108	-0.97296	SLV FO 11	-0.51647	-0.61977
390	SLU 10	-0.82508	-0.99009	SLV FO 11	-0.52537	-0.63044
391	SLU 10	-0.82978	-0.99573	SLV FO 7	-0.5433	-0.65196
392	SLU 10	-0.8167	-0.98004	SLV FO 11	-0.54574	-0.65489
393	SLU 10	-0.77962	-0.93554	SLV FO 7	-0.50887	-0.61064
394	SLU 10	-0.82594	-0.99113	SLV FO 11	-0.52149	-0.62579
395	SLU 10	-0.78269	-0.93923	SLV FO 7	-0.51863	-0.62236
396	SLU 10	-0.82216	-0.98659	SLV FO 11	-0.54685	-0.65622
397	SLU 10	-0.82069	-0.98482	SLV FO 7	-0.53459	-0.6415
398	SLU 10	-0.82058	-0.9847	SLV FO 7	-0.5216	-0.62592
399	SLU 10	-0.83692	-1.0043	SLV FO 11	-0.51535	-0.61842
400	SLU 10	-0.81977	-0.98373	SLV FO 11	-0.52291	-0.62749
401	SLU 10	-0.81793	-0.98152	SLV FO 7	-0.51925	-0.6231
402	SLU 10	-0.89723	-1.07667	SLV FO 11	-0.53343	-0.64011
403	SLU 10	-0.81965	-0.98358	SLV FO 7	-0.52098	-0.62517
404	SLU 10	-0.83138	-0.99766	SLV FO 11	-0.52883	-0.63459
405	SLU 10	-0.83521	-1.00226	SLV FO 7	-0.54555	-0.65466
406	SLU 10	-0.82562	-0.99074	SLV FO 11	-0.55039	-0.66047
407	SLU 10	-0.78524	-0.94229	SLV FO 7	-0.51384	-0.6166

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
408	SLU 10	-0.83653	-1.00383	SLV FO 11	-0.52728	-0.63274
409	SLU 10	-0.78658	-0.9439	SLV FO 7	-0.51887	-0.62264
410	SLU 10	-0.85825	-1.0299	SLV FO 11	-0.52283	-0.62739
411	SLU 10	-0.82859	-0.99431	SLV FO 11	-0.52783	-0.6334
412	SLU 10	-0.83052	-0.99663	SLV FO 7	-0.54156	-0.64988
413	SLU 10	-0.82839	-0.99406	SLV FO 11	-0.55109	-0.66131
414	SLU 10	-0.83225	-0.99871	SLV FO 7	-0.52682	-0.63219
415	SLU 10	-0.82352	-0.98822	SLV FO 7	-0.52228	-0.62673
416	SLU 10	-0.88026	-1.05631	SLV FO 11	-0.53033	-0.6364
417	SLU 10	-0.82577	-0.99092	SLV FO 7	-0.52423	-0.62907
418	SLU 10	-0.83443	-1.00132	SLV FO 11	-0.53128	-0.63753
419	SLU 10	-0.78871	-0.94645	SLV FO 7	-0.51815	-0.62178
420	SLU 10	-0.83739	-1.00487	SLV FO 7	-0.54671	-0.65605
421	SLU 10	-0.83128	-0.99754	SLV FO 11	-0.55369	-0.66443
422	SLU 10	-0.84855	-1.01826	SLV FO 7	-0.53485	-0.64182
423	SLU 10	-0.85059	-1.0207	SLV FO 7	-0.53597	-0.64317
424	SLU 10	-0.84993	-1.01991	SLV FO 11	-0.53562	-0.64274
425	SLU 10	-0.84607	-1.01528	SLV FO 11	-0.53352	-0.64023
426	SLU 10	-0.84393	-1.01271	SLV FO 7	-0.53305	-0.63966
427	SLU 10	-0.93416	-1.12099	SLV FO 15	-0.54037	-0.64845
429	SLU 10	-0.75597	-0.90716	SLV FO 3	-0.46002	-0.55203
430	SLU 10	-0.80919	-0.97102	SLV FO 11	-0.52371	-0.62845
431	SLU 10	-0.82374	-0.98848	SLV FO 7	-0.5382	-0.64584
432	SLU 10	-0.81675	-0.9801	SLV FO 11	-0.53222	-0.63867
433	SLU 10	-0.82845	-0.99414	SLV FO 11	-0.55959	-0.6715
434	SLU 10	-0.79834	-0.95801	SLV FO 7	-0.54207	-0.65049
435	SLU 10	-0.76456	-0.91748	SLV FO 3	-0.4751	-0.57012
436	SLU 10	-0.81332	-0.97598	SLV FO 11	-0.52401	-0.62881
437	SLU 10	-0.80972	-0.97166	SLV FO 11	-0.52537	-0.63044
438	SLU 10	-0.82645	-0.99174	SLV FO 7	-0.54044	-0.64853
439	SLU 10	-0.8179	-0.98148	SLV FO 11	-0.5335	-0.6402
440	SLU 10	-0.81914	-0.98297	SLV FO 11	-0.53264	-0.63917
441	SLU 10	-0.83149	-0.99779	SLV FO 7	-0.55974	-0.67169
442	SLU 10	-0.8281	-0.99372	SLV FO 11	-0.5595	-0.6714
443	SLU 10	-0.80525	-0.9663	SLV FO 7	-0.54694	-0.65633
444	SLU 10	-0.79413	-0.95295	SLV FO 7	-0.53844	-0.64613
445	SLU 10	-0.81824	-0.98189	SLV FO 7	-0.53771	-0.64525
446	SLU 10	-0.8189	-0.98268	SLV FO 7	-0.54003	-0.64803
447	SLU 10	-0.77331	-0.92797	SLV FO 3	-0.48967	-0.5876
448	SLU 10	-0.8144	-0.97728	SLV FO 11	-0.52885	-0.63462
449	SLU 10	-0.83168	-0.99801	SLV FO 11	-0.54275	-0.65129
450	SLU 10	-0.82496	-0.98995	SLV FO 11	-0.53483	-0.6418
451	SLU 10	-0.83689	-1.00427	SLV FO 7	-0.56079	-0.67295
452	SLU 10	-0.83047	-0.99657	SLV FO 11	-0.5608	-0.67296
453	SLU 10	-0.8145	-0.97741	SLV FO 7	-0.55293	-0.66352
454	SLU 10	-0.7927	-0.95124	SLV FO 7	-0.53608	-0.6433
455	SLU 10	-0.82128	-0.98554	SLV FO 7	-0.53733	-0.64479
456	SLU 10	-0.82395	-0.98874	SLV FO 7	-0.5374	-0.64489
457	SLU 10	-0.82334	-0.98801	SLV FO 7	-0.54439	-0.65327
458	SLU 10	-0.8226	-0.98712	SLV FO 11	-0.52664	-0.63196
459	SLU 10	-0.82268	-0.98722	SLV FO 11	-0.53665	-0.64398
460	SLU 10	-0.82697	-0.99237	SLV FO 7	-0.53805	-0.64566
461	SLU 10	-0.82247	-0.98696	SLV FO 11	-0.53404	-0.64085
462	SLU 10	-0.84406	-1.01287	SLV FO 7	-0.56305	-0.67567
463	SLU 10	-0.82546	-0.99056	SLV FO 7	-0.55987	-0.67184
464	SLU 10	-0.83378	-1.00054	SLV FO 11	-0.53884	-0.64661
465	SLU 10	-0.78222	-0.93866	SLV FO 3	-0.50384	-0.6046
466	SLU 10	-0.83912	-1.00694	SLV FO 11	-0.54605	-0.65526
467	SLU 10	-0.79413	-0.95295	SLV FO 7	-0.53519	-0.64223
468	SLU 10	-0.83044	-0.99653	SLV FO 11	-0.54117	-0.64941
469	SLU 10	-0.83113	-0.99735	SLV FO 7	-0.55045	-0.66054
470	SLU 10	-0.83581	-1.00298	SLV FO 11	-0.56401	-0.67681
471	SLU 10	-0.82867	-0.99441	SLV FO 7	-0.53972	-0.64766
472	SLU 10	-0.83708	-1.0045	SLV FO 11	-0.53167	-0.638
473	SLU 10	-0.83269	-0.99923	SLV FO 7	-0.54043	-0.64852
474	SLU 10	-0.85214	-1.02257	SLV FO 7	-0.5665	-0.67981
475	SLU 10	-0.84275	-1.0113	SLV FO 11	-0.56818	-0.68181
476	SLU 10	-0.83725	-1.0047	SLV FO 11	-0.5672	-0.68064
477	SLU 10	-0.79746	-0.95695	SLV FO 7	-0.53509	-0.6421
478	SLU 10	-0.84488	-1.01385	SLV FO 11	-0.54472	-0.65367
479	SLU 10	-0.84187	-1.01024	SLV FO 7	-0.55816	-0.6698
480	SLU 10	-0.83932	-1.00718	SLV FO 7	-0.54413	-0.65296
481	SLU 10	-0.7911	-0.94932	SLV FO 3	-0.51771	-0.62125
482	SLU 10	-0.83336	-1.00003	SLV FO 11	-0.54138	-0.64966
483	SLU 10	-0.84793	-1.01752	SLV FO 11	-0.55073	-0.66088
484	SLU 10	-0.84113	-1.00935	SLV FO 11	-0.54759	-0.65711
485	SLU 10	-0.85627	-1.02752	SLV FO 11	-0.53883	-0.6466
486	SLU 10	-0.84026	-1.00832	SLV FO 7	-0.54431	-0.65317
487	SLU 10	-0.91973	-1.10368	SLV FO 15	-0.54788	-0.65746
488	SLU 10	-0.85269	-1.02323	SLV FO 11	-0.55457	-0.66548
489	SLU 10	-0.85462	-1.02555	SLV FO 7	-0.56722	-0.68067
490	SLU 10	-0.85159	-1.0219	SLV FO 11	-0.57444	-0.68933
491	SLU 10	-0.80251	-0.96301	SLV FO 7	-0.53617	-0.64341
492	SLU 10	-0.85324	-1.02389	SLV FO 7	-0.55132	-0.66159
493	SLU 10	-0.86034	-1.03241	SLV FO 7	-0.57138	-0.68565
494	SLU 10	-0.84896	-1.01875	SLV FO 11	-0.57437	-0.68924
495	SLU 10	-0.8573	-1.02876	SLV FO 11	-0.5527	-0.66324
496	SLU 10	-0.79956	-0.95947	SLV FO 7	-0.52972	-0.63567
497	SLU 10	-0.85677	-1.02812	SLV FO 11	-0.55634	-0.66761
498	SLU 10	-0.84508	-1.01409	SLV FO 7	-0.54927	-0.65912
499	SLU 10	-0.87982	-1.05579	SLV FO 11	-0.54843	-0.65811
500	SLU 10	-0.84862	-1.01834	SLV FO 7	-0.54962	-0.65954
501	SLU 10	-0.87142	-1.0457	SLV FO 7	-0.56158	-0.67389
502	SLU 10	-0.87068	-1.04482	SLV FO 7	-0.56143	-0.67372
503	SLU 10	-0.87122	-1.04547	SLV FO 11	-0.5619	-0.67428
504	SLU 10	-0.90597	-1.08716	SLV FO 15	-0.55648	-0.66778
505	SLU 10	-0.85516	-1.02619	SLV FO 7	-0.55651	-0.66781
506	SLU 10	-0.86371	-1.03645	SLV FO 11	-0.56319	-0.67583

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
507	SLU 10	-0.86897	-1.04277	SLV FO 11	-0.56229	-0.67474
508	SLU 10	-0.86917	-1.04301	SLV FO 7	-0.56246	-0.67495
509	SLU 10	-0.86679	-1.04015	SLV FO 7	-0.57726	-0.69271
510	SLU 10	-0.85856	-1.03027	SLV FO 11	-0.58156	-0.69787
511	SLU 10	-0.80648	-0.96778	SLV FO 7	-0.53733	-0.64479
512	SLU 10	-0.94883	-1.1386	SLV FO 15	-0.55013	-0.66015
514	SLU 10	-0.75863	-0.91036	SLV FO 3	-0.46308	-0.5557
515	SLU 10	-0.82377	-0.98852	SLV FO 11	-0.54428	-0.65314
516	SLU 10	-0.83958	-1.0075	SLV FO 7	-0.56009	-0.67211
517	SLU 10	-0.83084	-0.99701	SLV FO 11	-0.55289	-0.66347
518	SLU 10	-0.84386	-1.01263	SLV FO 11	-0.57897	-0.69476
519	SLU 10	-0.81117	-0.9734	SLV FO 7	-0.55813	-0.66976
520	SLU 10	-0.7687	-0.92244	SLV FO 3	-0.47889	-0.57467
521	SLU 10	-0.82765	-0.99318	SLV FO 11	-0.54456	-0.65347
522	SLU 10	-0.82468	-0.98962	SLV FO 11	-0.54613	-0.65535
523	SLU 10	-0.83232	-0.99878	SLV FO 11	-0.55443	-0.66531
524	SLU 10	-0.83305	-0.99966	SLV FO 11	-0.55321	-0.66385
525	SLU 10	-0.8471	-1.01652	SLV FO 7	-0.5791	-0.69492
526	SLU 10	-0.84345	-1.01214	SLV FO 11	-0.57861	-0.69433
527	SLU 10	-0.81865	-0.98237	SLV FO 7	-0.56345	-0.67614
528	SLU 10	-0.8065	-0.9678	SLV FO 7	-0.55416	-0.66499
529	SLU 10	-0.83337	-1.00005	SLV FO 7	-0.56025	-0.6723
530	SLU 10	-0.84251	-1.01101	SLV FO 7	-0.56269	-0.67523
531	SLU 10	-0.83982	-1.00779	SLV FO 7	-0.55924	-0.67109
532	SLU 10	-0.80473	-0.96567	SLV FO 7	-0.55156	-0.66187
533	SLU 10	-0.83244	-0.99893	SLV FO 7	-0.55787	-0.66944
534	SLU 10	-0.85288	-1.02346	SLV FO 7	-0.58059	-0.6967
535	SLU 10	-0.84606	-1.01527	SLV FO 11	-0.57997	-0.69596
536	SLU 10	-0.77894	-0.93473	SLV FO 3	-0.4942	-0.59304
537	SLU 10	-0.83678	-1.00413	SLV FO 11	-0.54733	-0.6568
538	SLU 10	-0.83889	-1.00666	SLV FO 11	-0.55568	-0.66682
539	SLU 10	-0.82862	-0.99434	SLV FO 7	-0.57014	-0.68417
540	SLU 10	-0.83001	-0.99601	SLV FO 11	-0.55021	-0.66025
541	SLU 10	-0.83756	-1.00507	SLV FO 11	-0.55801	-0.66961
542	SLU 10	-0.83816	-1.00579	SLV FO 7	-0.56476	-0.67772
543	SLU 10	-0.84806	-1.01767	SLV FO 11	-0.56495	-0.67794
544	SLU 10	-0.83548	-1.00258	SLV FO 7	-0.5577	-0.66925
545	SLU 10	-0.84314	-1.01176	SLV FO 7	-0.56017	-0.6722
546	SLU 10	-0.86033	-1.03239	SLV FO 7	-0.58316	-0.69979
547	SLU 10	-0.80583	-0.96699	SLV FO 7	-0.55049	-0.66059
548	SLU 10	-0.84766	-1.01719	SLV FO 11	-0.55995	-0.67194
549	SLU 10	-0.84023	-1.00828	SLV FO 7	-0.57775	-0.6933
550	SLU 10	-0.84598	-1.01518	SLV FO 11	-0.56321	-0.67586
551	SLU 10	-0.85154	-1.02185	SLV FO 11	-0.58318	-0.69982
552	SLU 10	-0.85106	-1.02128	SLV FO 11	-0.55256	-0.66308
553	SLU 10	-0.78932	-0.94718	SLV FO 3	-0.50912	-0.61094
554	SLU 10	-0.85573	-1.02688	SLV FO 11	-0.56856	-0.68228
555	SLU 10	-0.83885	-1.00662	SLV FO 11	-0.55632	-0.66758
556	SLU 10	-0.84684	-1.01621	SLV FO 7	-0.57164	-0.68597
557	SLU 10	-0.8428	-1.01135	SLV FO 7	-0.56035	-0.67242
558	SLU 10	-0.849	-1.0188	SLV FO 7	-0.56271	-0.67525
559	SLU 10	-0.86851	-1.04221	SLV FO 7	-0.58709	-0.70451
560	SLU 10	-0.85236	-1.02283	SLV FO 7	-0.58592	-0.70311
561	SLU 10	-0.85844	-1.03013	SLV FO 11	-0.56592	-0.67911
562	SLU 10	-0.86993	-1.04391	SLV FO 11	-0.55993	-0.67192
563	SLU 10	-0.85817	-1.0298	SLV FO 7	-0.57991	-0.69589
564	SLU 10	-0.80933	-0.97119	SLV FO 7	-0.55084	-0.66101
565	SLU 10	-0.85714	-1.02856	SLV FO 11	-0.57032	-0.68439
566	SLU 10	-0.85931	-1.03117	SLV FO 11	-0.58825	-0.7059
567	SLU 10	-0.8535	-1.0242	SLV FO 7	-0.56531	-0.67837
568	SLU 10	-0.79945	-0.95934	SLV FO 3	-0.52375	-0.6285
569	SLU 10	-0.84986	-1.01983	SLV FO 11	-0.56409	-0.6769
570	SLU 10	-0.86457	-1.03749	SLV FO 11	-0.5737	-0.68844
571	SLU 10	-0.85679	-1.02814	SLV FO 7	-0.56708	-0.6805
572	SLU 10	-0.93294	-1.11953	SLV FO 15	-0.55789	-0.66947
573	SLU 10	-0.87039	-1.04447	SLV FO 7	-0.58876	-0.70651
574	SLU 10	-0.87572	-1.05087	SLV FO 7	-0.59192	-0.7103
575	SLU 10	-0.86343	-1.03612	SLV FO 11	-0.59321	-0.71185
576	SLU 10	-0.86977	-1.04372	SLV FO 11	-0.57387	-0.68865
577	SLU 10	-0.86648	-1.03977	SLV FO 7	-0.57255	-0.68706
578	SLU 10	-0.8687	-1.04244	SLV FO 11	-0.57806	-0.69367
579	SLU 10	-0.8133	-0.97596	SLV FO 7	-0.55135	-0.66162
580	SLU 10	-0.86721	-1.04065	SLV FO 11	-0.59414	-0.71296
581	SLU 10	-0.89283	-1.0714	SLV FO 15	-0.56846	-0.68215
582	SLU 10	-0.80846	-0.97015	SLV FO 3	-0.53796	-0.64556
583	SLU 10	-0.87244	-1.04692	SLV FO 11	-0.57917	-0.695
584	SLU 10	-0.86082	-1.03298	SLV FO 11	-0.57265	-0.68718
585	SLU 10	-0.86452	-1.03742	SLV FO 7	-0.57264	-0.68717
586	SLU 10	-0.88404	-1.06084	SLV FO 7	-0.58376	-0.70051
587	SLU 10	-0.88285	-1.05942	SLV FO 7	-0.58335	-0.70002
588	SLU 10	-0.88324	-1.05988	SLV FO 11	-0.58382	-0.70059
589	SLU 10	-0.91624	-1.09948	SLV FO 15	-0.56619	-0.67943
590	SLU 10	-0.86812	-1.04174	SLV FO 7	-0.57796	-0.69356
591	SLU 10	-0.87648	-1.05178	SLV FO 11	-0.58443	-0.70131
592	SLU 10	-0.87919	-1.05502	SLV FO 11	-0.58263	-0.69915
593	SLU 10	-0.87935	-1.05522	SLV FO 7	-0.58263	-0.69916
594	SLU 10	-0.87953	-1.05544	SLV FO 7	-0.59669	-0.71602
595	SLU 10	-0.87079	-1.04494	SLV FO 11	-0.59912	-0.71894
596	SLU 10	-0.81455	-0.97746	SLV FO 7	-0.55049	-0.66059
597	SLU 10	-0.95715	-1.14858	SLV FO 15	-0.55734	-0.66881
599	SLU 10	-0.76083	-0.913	SLV FO 3	-0.46594	-0.55913
600	SLU 10	-0.83508	-1.0021	SLV FO 11	-0.56383	-0.6766
601	SLU 10	-0.852	-1.0224	SLV FO 7	-0.58085	-0.69702
602	SLU 10	-0.84178	-1.01013	SLV FO 11	-0.57254	-0.68705
603	SLU 10	-0.85594	-1.02713	SLV FO 11	-0.59696	-0.71635
604	SLU 10	-0.82128	-0.98554	SLV FO 7	-0.57315	-0.68777
605	SLU 10	-0.77192	-0.92631	SLV FO 3	-0.48229	-0.57875
606	SLU 10	-0.83869	-1.00643	SLV FO 11	-0.56408	-0.67689

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
607	SLU 10	-0.8437	-1.01244	SLV FO 11	-0.57273	-0.68728
608	SLU 10	-0.85917	-1.031	SLV FO 7	-0.59707	-0.71648
609	SLU 10	-0.82904	-0.99485	SLV FO 7	-0.57877	-0.69453
610	SLU 10	-0.81628	-0.97953	SLV FO 7	-0.5689	-0.68268
611	SLU 10	-0.85559	-1.0267	SLV FO 11	-0.59652	-0.71582
612	SLU 10	-0.85485	-1.02583	SLV FO 11	-0.58334	-0.7
613	SLU 10	-0.85219	-1.02263	SLV FO 7	-0.57992	-0.69591
614	SLU 10	-0.84327	-1.01192	SLV FO 7	-0.57668	-0.69202
615	SLU 10	-0.84448	-1.01337	SLV FO 7	-0.57918	-0.69501
616	SLU 10	-0.81411	-0.97693	SLV FO 7	-0.56606	-0.67927
617	SLU 10	-0.84361	-1.01234	SLV FO 11	-0.57455	-0.68946
618	SLU 10	-0.83632	-1.00358	SLV FO 11	-0.56605	-0.67926
619	SLU 10	-0.86479	-1.03775	SLV FO 7	-0.5987	-0.71844
620	SLU 10	-0.8474	-1.01688	SLV FO 11	-0.56686	-0.68024
621	SLU 10	-0.84912	-1.01895	SLV FO 11	-0.57517	-0.6902
622	SLU 10	-0.83913	-1.00695	SLV FO 7	-0.58578	-0.70294
623	SLU 10	-0.85808	-1.02969	SLV FO 11	-0.5977	-0.71723
624	SLU 10	-0.8602	-1.03224	SLV FO 11	-0.5855	-0.7026
625	SLU 10	-0.84898	-1.01877	SLV FO 11	-0.57843	-0.69412
626	SLU 10	-0.78307	-0.93969	SLV FO 3	-0.49802	-0.59763
627	SLU 10	-0.84168	-1.01002	SLV FO 11	-0.57037	-0.68445
628	SLU 10	-0.84964	-1.01957	SLV FO 7	-0.58412	-0.70095
629	SLU 10	-0.85534	-1.02641	SLV FO 7	-0.58089	-0.69707
630	SLU 10	-0.8462	-1.01543	SLV FO 7	-0.57693	-0.69231
631	SLU 10	-0.87183	-1.04619	SLV FO 7	-0.60138	-0.72165
632	SLU 10	-0.86099	-1.03319	SLV FO 11	-0.57205	-0.68646
633	SLU 10	-0.85727	-1.02872	SLV FO 11	-0.57943	-0.69532
634	SLU 10	-0.8506	-1.02072	SLV FO 7	-0.59364	-0.71237
635	SLU 10	-0.81485	-0.97782	SLV FO 7	-0.56508	-0.67809
636	SLU 10	-0.85739	-1.02886	SLV FO 11	-0.58404	-0.70085
637	SLU 10	-0.8582	-1.02984	SLV FO 7	-0.59103	-0.70923
638	SLU 10	-0.86746	-1.04095	SLV FO 11	-0.58937	-0.70725
639	SLU 10	-0.79417	-0.953	SLV FO 3	-0.51339	-0.61607
640	SLU 10	-0.85289	-1.02347	SLV FO 7	-0.57959	-0.69551
641	SLU 10	-0.8608	-1.03296	SLV FO 7	-0.58345	-0.70014
642	SLU 10	-0.86345	-1.03614	SLV FO 11	-0.60105	-0.72127
643	SLU 10	-0.85027	-1.02033	SLV FO 11	-0.57683	-0.6922
644	SLU 10	-0.867	-1.04041	SLV FO 11	-0.58535	-0.70242
645	SLU 10	-0.87897	-1.05477	SLV FO 7	-0.60524	-0.72629
646	SLU 10	-0.86206	-1.03447	SLV FO 7	-0.60188	-0.72226
647	SLU 10	-0.87892	-1.05471	SLV FO 15	-0.57839	-0.69407
648	SLU 10	-0.86896	-1.04276	SLV FO 7	-0.59922	-0.71906
649	SLU 10	-0.86268	-1.03522	SLV FO 7	-0.58468	-0.70161
650	SLU 10	-0.86777	-1.04133	SLV FO 11	-0.59115	-0.70937
651	SLU 10	-0.81731	-0.98077	SLV FO 7	-0.56497	-0.67796
652	SLU 10	-0.87016	-1.04419	SLV FO 11	-0.60558	-0.72669
653	SLU 10	-0.80461	-0.96553	SLV FO 3	-0.52839	-0.63407
654	SLU 10	-0.87512	-1.05014	SLV FO 11	-0.59423	-0.71308
655	SLU 10	-0.86763	-1.04115	SLV FO 7	-0.58778	-0.70534
656	SLU 10	-0.86032	-1.03239	SLV FO 11	-0.58457	-0.70149
657	SLU 10	-0.93953	-1.12744	SLV FO 15	-0.56519	-0.67823
658	SLU 10	-0.8766	-1.05192	SLV FO 11	-0.59306	-0.71167
659	SLU 10	-0.87384	-1.04861	SLV FO 7	-0.59163	-0.70996
660	SLU 10	-0.87942	-1.05531	SLV FO 7	-0.60716	-0.7286
661	SLU 10	-0.88437	-1.06124	SLV FO 7	-0.60967	-0.73161
662	SLU 10	-0.87159	-1.04591	SLV FO 11	-0.60938	-0.73126
663	SLU 10	-0.89994	-1.07993	SLV FO 15	-0.5775	-0.693
664	SLU 10	-0.88113	-1.05735	SLV FO 11	-0.59915	-0.71899
665	SLU 10	-0.81958	-0.98349	SLV FO 7	-0.56457	-0.67748
666	SLU 10	-0.87759	-1.05311	SLV FO 11	-0.59848	-0.71818
667	SLU 10	-0.87604	-1.05125	SLV FO 11	-0.61053	-0.73264
668	SLU 10	-0.86947	-1.04336	SLV FO 11	-0.59257	-0.71108
669	SLU 10	-0.81333	-0.976	SLV FO 3	-0.54291	-0.65149
670	SLU 10	-0.87345	-1.04815	SLV FO 7	-0.59291	-0.71149
671	SLU 10	-0.88844	-1.06613	SLV FO 7	-0.60204	-0.72245
672	SLU 10	-0.89022	-1.06827	SLV FO 7	-0.60327	-0.72393
673	SLU 10	-0.88899	-1.06679	SLV FO 11	-0.60331	-0.72397
674	SLU 10	-0.92136	-1.10563	SLV FO 15	-0.57363	-0.68836
675	SLU 10	-0.87505	-1.05006	SLV FO 7	-0.59736	-0.71683
676	SLU 10	-0.88332	-1.05998	SLV FO 11	-0.60367	-0.72441
677	SLU 10	-0.88431	-1.06117	SLV FO 11	-0.60133	-0.7216
678	SLU 10	-0.88445	-1.06134	SLV FO 7	-0.60127	-0.72152
679	SLU 10	-0.88636	-1.06363	SLV FO 7	-0.61379	-0.73655
680	SLU 10	-0.87735	-1.05282	SLV FO 11	-0.6142	-0.73704
681	SLU 10	-0.81895	-0.98275	SLV FO 3	-0.55689	-0.66827
682	SLU 10	-0.96091	-1.15309	SLV FO 15	-0.56304	-0.67565
684	SLU 10	-0.76254	-0.91504	SLV FO 3	-0.46861	-0.56234
685	SLU 10	-0.84327	-1.01192	SLV FO 11	-0.58235	-0.69882
686	SLU 10	-0.86106	-1.03327	SLV FO 7	-0.60043	-0.72052
687	SLU 10	-0.84968	-1.01962	SLV FO 11	-0.59118	-0.70941
688	SLU 10	-0.86476	-1.03771	SLV FO 7	-0.61351	-0.73621
689	SLU 10	-0.82872	-0.99446	SLV FO 7	-0.58708	-0.7045
690	SLU 10	-0.77425	-0.9291	SLV FO 3	-0.48534	-0.58241
691	SLU 10	-0.84662	-1.01595	SLV FO 11	-0.58256	-0.69907
692	SLU 10	-0.8513	-1.02156	SLV FO 11	-0.59125	-0.7095
693	SLU 10	-0.86783	-1.0414	SLV FO 7	-0.61368	-0.73642
694	SLU 10	-0.83653	-1.00383	SLV FO 7	-0.59292	-0.71151
695	SLU 10	-0.86432	-1.03719	SLV FO 11	-0.61286	-0.73543
696	SLU 10	-0.82353	-0.98823	SLV FO 7	-0.58274	-0.69929
697	SLU 10	-0.86115	-1.03338	SLV FO 7	-0.59944	-0.71933
698	SLU 10	-0.85475	-1.0257	SLV FO 11	-0.58517	-0.7022
699	SLU 10	-0.85109	-1.02131	SLV FO 7	-0.59449	-0.71339
700	SLU 10	-0.85248	-1.02298	SLV FO 7	-0.59694	-0.71633
701	SLU 10	-0.86374	-1.03649	SLV FO 11	-0.60277	-0.72332
702	SLU 10	-0.85161	-1.02193	SLV FO 11	-0.59334	-0.71201
703	SLU 10	-0.84452	-1.01342	SLV FO 11	-0.58466	-0.70159
704	SLU 10	-0.873	-1.04761	SLV FO 7	-0.61537	-0.73844
705	SLU 10	-0.85615	-1.02738	SLV FO 11	-0.5936	-0.71232

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
706	SLU 10	-0.84638	-1.01566	SLV FO 7	-0.60008	-0.7201
707	SLU 10	-0.82101	-0.98521	SLV FO 7	-0.57979	-0.69575
708	SLU 10	-0.85682	-1.02819	SLV FO 11	-0.59739	-0.71687
709	SLU 10	-0.86867	-1.04241	SLV FO 11	-0.60497	-0.72596
710	SLU 10	-0.85753	-1.02904	SLV FO 7	-0.60184	-0.72221
711	SLU 10	-0.8666	-1.03992	SLV FO 11	-0.61393	-0.73672
712	SLU 10	-0.78584	-0.943	SLV FO 3	-0.50136	-0.60163
713	SLU 10	-0.84964	-1.01957	SLV FO 11	-0.58915	-0.70698
714	SLU 10	-0.86387	-1.03665	SLV FO 7	-0.60026	-0.72031
715	SLU 10	-0.8675	-1.041	SLV FO 15	-0.58766	-0.70519
716	SLU 10	-0.87925	-1.0551	SLV FO 7	-0.61802	-0.74162
717	SLU 10	-0.85355	-1.02426	SLV FO 7	-0.59479	-0.71375
718	SLU 10	-0.86345	-1.03614	SLV FO 11	-0.59779	-0.71735
719	SLU 10	-0.85728	-1.02874	SLV FO 7	-0.608	-0.7296
720	SLU 10	-0.86556	-1.03867	SLV FO 7	-0.60851	-0.73022
721	SLU 10	-0.82097	-0.98516	SLV FO 7	-0.57845	-0.69414
722	SLU 10	-0.8686	-1.04232	SLV FO 7	-0.6028	-0.72336
723	SLU 10	-0.87502	-1.05002	SLV FO 11	-0.60866	-0.73039
724	SLU 10	-0.79716	-0.95659	SLV FO 3	-0.517	-0.62039
725	SLU 10	-0.85954	-1.03145	SLV FO 7	-0.59762	-0.71714
726	SLU 10	-0.86487	-1.03784	SLV FO 11	-0.60343	-0.72411
727	SLU 10	-0.85753	-1.02903	SLV FO 11	-0.5957	-0.71484
728	SLU 10	-0.87122	-1.04546	SLV FO 11	-0.6169	-0.74029
729	SLU 10	-0.87201	-1.04641	SLV FO 11	-0.6036	-0.72432
730	SLU 10	-0.88512	-1.06215	SLV FO 7	-0.62169	-0.74603
731	SLU 10	-0.86775	-1.04131	SLV FO 7	-0.61613	-0.73936
732	SLU 10	-0.88429	-1.06115	SLV FO 15	-0.58661	-0.70394
733	SLU 10	-0.8753	-1.05036	SLV FO 7	-0.61633	-0.7396
734	SLU 10	-0.86821	-1.04186	SLV FO 7	-0.60283	-0.72339
735	SLU 10	-0.88133	-1.0576	SLV FO 11	-0.61317	-0.7358
736	SLU 10	-0.80749	-0.96899	SLV FO 3	-0.53218	-0.63862
737	SLU 10	-0.86638	-1.03966	SLV FO 11	-0.60326	-0.72391
738	SLU 10	-0.87413	-1.04896	SLV FO 7	-0.60694	-0.72833
739	SLU 10	-0.82229	-0.98675	SLV FO 7	-0.57784	-0.69341
740	SLU 10	-0.87416	-1.04899	SLV FO 7	-0.61044	-0.73253
741	SLU 10	-0.87674	-1.05209	SLV FO 11	-0.62101	-0.74521
742	SLU 10	-0.94244	-1.13093	SLV FO 15	-0.57119	-0.68543
743	SLU 10	-0.88021	-1.05625	SLV FO 11	-0.61113	-0.73336
744	SLU 10	-0.87781	-1.05337	SLV FO 7	-0.60959	-0.73151
745	SLU 10	-0.88438	-1.06126	SLV FO 7	-0.62375	-0.7485
746	SLU 10	-0.88907	-1.06689	SLV FO 7	-0.62582	-0.75098
747	SLU 10	-0.87602	-1.05122	SLV FO 11	-0.62349	-0.74819
748	SLU 10	-0.90368	-1.08442	SLV FO 15	-0.5847	-0.70164
749	SLU 10	-0.88584	-1.06301	SLV FO 11	-0.61758	-0.74109
750	SLU 10	-0.81593	-0.97912	SLV FO 3	-0.54697	-0.65636
751	SLU 10	-0.87416	-1.04899	SLV FO 11	-0.61107	-0.73328
752	SLU 10	-0.88238	-1.05885	SLV FO 11	-0.61722	-0.74066
753	SLU 10	-0.82316	-0.98779	SLV FO 3	-0.57353	-0.68824
754	SLU 10	-0.87828	-1.05394	SLV FO 7	-0.61152	-0.73382
755	SLU 10	-0.88088	-1.05706	SLV FO 11	-0.62512	-0.75015
756	SLU 10	-0.89095	-1.06914	SLV FO 7	-0.61983	-0.7438
757	SLU 10	-0.8928	-1.07136	SLV FO 7	-0.62149	-0.74579
758	SLU 10	-0.89145	-1.06974	SLV FO 11	-0.62137	-0.74565
759	SLU 10	-0.92392	-1.1087	SLV FO 15	-0.57995	-0.69594
760	SLU 10	-0.87884	-1.05461	SLV FO 7	-0.61566	-0.73879
761	SLU 10	-0.88705	-1.06447	SLV FO 11	-0.62185	-0.74622
762	SLU 10	-0.88687	-1.06425	SLV FO 11	-0.61922	-0.74306
763	SLU 10	-0.887	-1.0644	SLV FO 7	-0.61913	-0.74295
764	SLU 10	-0.89009	-1.06811	SLV FO 7	-0.62967	-0.7556
765	SLU 10	-0.88095	-1.05714	SLV FO 11	-0.62797	-0.75356
766	SLU 10	-0.82141	-0.98569	SLV FO 3	-0.56126	-0.67351
767	SLU 10	-0.96225	-1.15469	SLV FO 15	-0.5682	-0.68184
769	SLU 10	-0.76374	-0.91649	SLV FO 3	-0.47111	-0.56534
770	SLU 10	-0.84867	-1.01841	SLV FO 11	-0.59986	-0.71983
771	SLU 10	-0.86708	-1.0405	SLV FO 7	-0.61886	-0.74263
772	SLU 10	-0.8549	-1.02589	SLV FO 11	-0.60882	-0.73059
773	SLU 10	-0.83369	-1.00043	SLV FO 7	-0.59996	-0.71996
774	SLU 10	-0.77578	-0.93093	SLV FO 3	-0.48811	-0.58573
775	SLU 10	-0.85183	-1.02219	SLV FO 15	-0.5997	-0.71964
776	SLU 10	-0.85625	-1.0275	SLV FO 11	-0.60882	-0.73059
777	SLU 10	-0.8735	-1.0482	SLV FO 7	-0.62902	-0.75483
778	SLU 10	-0.84144	-1.00973	SLV FO 7	-0.60597	-0.72717
779	SLU 10	-0.87065	-1.04479	SLV FO 7	-0.62884	-0.75461
780	SLU 10	-0.86705	-1.04046	SLV FO 7	-0.61781	-0.74137
781	SLU 10	-0.84984	-1.01981	SLV FO 11	-0.60219	-0.72263
782	SLU 10	-0.85951	-1.03141	SLV FO 15	-0.59686	-0.71623
783	SLU 10	-0.85623	-1.02748	SLV FO 7	-0.61126	-0.73351
784	SLU 10	-0.86956	-1.04347	SLV FO 11	-0.62105	-0.74526
785	SLU 10	-0.85773	-1.02927	SLV FO 7	-0.6136	-0.73631
786	SLU 10	-0.82834	-0.99401	SLV FO 7	-0.59545	-0.71455
787	SLU 10	-0.87015	-1.04418	SLV FO 11	-0.62796	-0.75356
788	SLU 10	-0.87817	-1.05381	SLV FO 7	-0.63079	-0.75695
789	SLU 10	-0.8569	-1.02827	SLV FO 11	-0.61127	-0.73353
790	SLU 10	-0.86057	-1.03269	SLV FO 11	-0.61113	-0.73336
791	SLU 10	-0.85095	-1.02114	SLV FO 7	-0.61325	-0.73589
792	SLU 10	-0.82548	-0.99057	SLV FO 7	-0.59239	-0.71087
793	SLU 10	-0.86259	-1.0351	SLV FO 7	-0.61838	-0.74205
794	SLU 10	-0.78753	-0.94503	SLV FO 3	-0.50434	-0.60521
795	SLU 10	-0.85825	-1.0299	SLV FO 7	-0.61164	-0.73397
796	SLU 10	-0.86937	-1.04324	SLV FO 7	-0.61862	-0.74234
797	SLU 10	-0.87154	-1.04585	SLV FO 15	-0.59502	-0.71403
798	SLU 10	-0.88365	-1.06038	SLV FO 7	-0.63346	-0.76015
799	SLU 10	-0.85462	-1.02555	SLV FO 11	-0.60688	-0.72826
800	SLU 10	-0.87401	-1.04881	SLV FO 11	-0.62338	-0.74805
801	SLU 10	-0.8619	-1.03428	SLV FO 11	-0.61555	-0.73866
802	SLU 10	-0.87214	-1.04656	SLV FO 11	-0.62893	-0.75471
803	SLU 10	-0.86712	-1.04054	SLV FO 11	-0.6153	-0.73836
804	SLU 10	-0.86124	-1.03349	SLV FO 7	-0.6212	-0.74544

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
805	SLU 10	-0.87009	-1.04411	SLV FO 7	-0.62489	-0.74987
806	SLU 10	-0.8733	-1.04796	SLV FO 7	-0.62097	-0.74516
807	SLU 10	-0.79887	-0.95865	SLV FO 3	-0.52018	-0.62422
808	SLU 10	-0.86358	-1.0363	SLV FO 7	-0.61474	-0.73768
809	SLU 10	-0.82476	-0.98971	SLV FO 7	-0.59074	-0.70888
810	SLU 10	-0.87952	-1.05542	SLV FO 11	-0.62693	-0.75232
811	SLU 10	-0.86179	-1.03415	SLV FO 11	-0.61347	-0.73616
812	SLU 10	-0.86932	-1.04319	SLV FO 11	-0.62161	-0.74594
813	SLU 10	-0.87478	-1.04973	SLV FO 11	-0.62109	-0.74531
814	SLU 10	-0.88854	-1.06625	SLV FO 7	-0.63705	-0.76446
815	SLU 10	-0.87091	-1.04509	SLV FO 7	-0.62929	-0.75514
816	SLU 10	-0.87599	-1.05119	SLV FO 11	-0.63148	-0.75778
817	SLU 10	-0.88733	-1.06479	SLV FO 15	-0.59349	-0.71219
818	SLU 10	-0.87897	-1.05476	SLV FO 7	-0.6324	-0.75889
819	SLU 10	-0.88478	-1.06174	SLV FO 11	-0.631	-0.7572
820	SLU 10	-0.80906	-0.97088	SLV FO 3	-0.53557	-0.64268
821	SLU 10	-0.87133	-1.0456	SLV FO 7	-0.62015	-0.74418
822	SLU 10	-0.86973	-1.04368	SLV FO 11	-0.6211	-0.74532
823	SLU 10	-0.82517	-0.9902	SLV FO 3	-0.58621	-0.70346
824	SLU 10	-0.87778	-1.05334	SLV FO 7	-0.6251	-0.75012
825	SLU 10	-0.87766	-1.05319	SLV FO 7	-0.6285	-0.7542
826	SLU 10	-0.88039	-1.05646	SLV FO 11	-0.63499	-0.76198
827	SLU 10	-0.94361	-1.13233	SLV FO 15	-0.57667	-0.69201
828	SLU 10	-0.8821	-1.05851	SLV FO 11	-0.62859	-0.75431
829	SLU 10	-0.89159	-1.0699	SLV FO 7	-0.64105	-0.76925
830	SLU 10	-0.87838	-1.05406	SLV FO 11	-0.63659	-0.7639
831	SLU 10	-0.88708	-1.06449	SLV FO 7	-0.63945	-0.76733
832	SLU 10	-0.87998	-1.05597	SLV FO 7	-0.62714	-0.75257
833	SLU 10	-0.90567	-1.0868	SLV FO 15	-0.59096	-0.70915
834	SLU 10	-0.88836	-1.06603	SLV FO 11	-0.63511	-0.76213
835	SLU 10	-0.81732	-0.98078	SLV FO 3	-0.55057	-0.66068
836	SLU 10	-0.87664	-1.05196	SLV FO 11	-0.62868	-0.75442
837	SLU 10	-0.88086	-1.05703	SLV FO 7	-0.62933	-0.7552
838	SLU 10	-0.8849	-1.06188	SLV FO 11	-0.63504	-0.76204
839	SLU 10	-0.82513	-0.99015	SLV FO 3	-0.57788	-0.69346
840	SLU 10	-0.88344	-1.06013	SLV FO 11	-0.63862	-0.76634
841	SLU 10	-0.89199	-1.07039	SLV FO 7	-0.63726	-0.76471
842	SLU 10	-0.89371	-1.07245	SLV FO 7	-0.63897	-0.76676
843	SLU 10	-0.89242	-1.0709	SLV FO 11	-0.63898	-0.76678
844	SLU 10	-0.92515	-1.11017	SLV FO 15	-0.58569	-0.70283
845	SLU 10	-0.88085	-1.05702	SLV FO 7	-0.63328	-0.75993
846	SLU 10	-0.88904	-1.06684	SLV FO 11	-0.63938	-0.76725
847	SLU 10	-0.8881	-1.06572	SLV FO 11	-0.63666	-0.76399
848	SLU 10	-0.88823	-1.06587	SLV FO 7	-0.63656	-0.76387
849	SLU 10	-0.89208	-1.07049	SLV FO 7	-0.64479	-0.77375
850	SLU 10	-0.88287	-1.05944	SLV FO 11	-0.64094	-0.76913
851	SLU 10	-0.82274	-0.98729	SLV FO 3	-0.56503	-0.67804
852	SLU 10	-0.96259	-1.1551	SLV FO 15	-0.57336	-0.68804
854	SLU 10	-0.76446	-0.91735	SLV FO 3	-0.47346	-0.56815
855	SLU 10	-0.8517	-1.02204	SLV FO 15	-0.61034	-0.73241
856	SLU 10	-0.87047	-1.04457	SLU 1	-0.63559	-0.76271
857	SLU 10	-0.85783	-1.02939	SLV FO 11	-0.62548	-0.75058
858	SLU 10	-0.83651	-1.00381	SLU 1	-0.60584	-0.72701
859	SLU 10	-0.85473	-1.02567	SLV FO 15	-0.60605	-0.72726
860	SLU 10	-0.85899	-1.03079	SLV FO 11	-0.62547	-0.75057
861	SLU 10	-0.87665	-1.05198	SLU 1	-0.64006	-0.76807
862	SLU 10	-0.84417	-1.01301	SLU 1	-0.61214	-0.73457
863	SLU 10	-0.87394	-1.04873	SLU 1	-0.63825	-0.76591
864	SLU 10	-0.86064	-1.03277	SLU 1	-0.62843	-0.75411
865	SLU 10	-0.77656	-0.93188	SLV FO 3	-0.4906	-0.58871
866	SLU 10	-0.87279	-1.04734	SLU 1	-0.63715	-0.76458
867	SLU 10	-0.85909	-1.03091	SLV FO 7	-0.62702	-0.75242
868	SLU 10	-0.86211	-1.03453	SLV FO 15	-0.60315	-0.72379
869	SLU 10	-0.83106	-0.99727	SLU 1	-0.60102	-0.72122
870	SLU 10	-0.87036	-1.04443	SLV FO 7	-0.63506	-0.76208
871	SLU 10	-0.8528	-1.02335	SLV FO 15	-0.61632	-0.73958
872	SLU 10	-0.88095	-1.05714	SLU 1	-0.64292	-0.7715
873	SLU 10	-0.85978	-1.03173	SLU 1	-0.62783	-0.75339
874	SLU 10	-0.86295	-1.03554	SLV FO 11	-0.62783	-0.7534
875	SLU 10	-0.8534	-1.02408	SLU 1	-0.61945	-0.74334
876	SLU 10	-0.87341	-1.04809	SLU 1	-0.63788	-0.76546
877	SLU 10	-0.8653	-1.03836	SLU 1	-0.63174	-0.75808
878	SLU 10	-0.87232	-1.04678	SLV FO 7	-0.63576	-0.76292
879	SLU 10	-0.78842	-0.9461	SLV FO 3	-0.50708	-0.6085
880	SLU 10	-0.87366	-1.04839	SLV FO 15	-0.60117	-0.7214
881	SLU 10	-0.88592	-1.06311	SLU 1	-0.64622	-0.77546
882	SLU 10	-0.82793	-0.99352	SLU 1	-0.5978	-0.71735
883	SLU 10	-0.87685	-1.05222	SLU 1	-0.63989	-0.76787
884	SLU 10	-0.85727	-1.02873	SLV FO 11	-0.62372	-0.74846
885	SLU 10	-0.86086	-1.03303	SLV FO 7	-0.62778	-0.75334
886	SLU 10	-0.86456	-1.03747	SLU 1	-0.63117	-0.7574
887	SLU 10	-0.86901	-1.04281	SLV FO 11	-0.63211	-0.75854
888	SLU 10	-0.86327	-1.03592	SLU 1	-0.62712	-0.75255
889	SLU 10	-0.8751	-1.05012	SLU 1	-0.63894	-0.76673
890	SLU 10	-0.87243	-1.04691	SLU 1	-0.63671	-0.76405
891	SLU 10	-0.79972	-0.95967	SLV FO 3	-0.52311	-0.62774
892	SLU 10	-0.8818	-1.05816	SLU 1	-0.64323	-0.77187
893	SLU 10	-0.87577	-1.05092	SLV FO 7	-0.63843	-0.76611
894	SLU 10	-0.86395	-1.03674	SLV FO 11	-0.63036	-0.75643
895	SLU 10	-0.86574	-1.03888	SLV FO 7	-0.63122	-0.75747
896	SLU 10	-0.82676	-0.99211	SLU 1	-0.59598	-0.71518
897	SLU 10	-0.87151	-1.04582	SLU 1	-0.63598	-0.76317
898	SLU 10	-0.87613	-1.05136	SLV FO 11	-0.63804	-0.76564
899	SLU 10	-0.89021	-1.06825	SLU 1	-0.64906	-0.77888
900	SLU 10	-0.87245	-1.04694	SLU 1	-0.63423	-0.76107
901	SLU 10	-0.88882	-1.06658	SLV FO 15	-0.59938	-0.71926
902	SLU 10	-0.8784	-1.05408	SLU 1	-0.64101	-0.76921
903	SLU 10	-0.88076	-1.05692	SLU 1	-0.64248	-0.77097

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
904	SLU 10	-0.88647	-1.06376	SLU 1	-0.64637	-0.77564
905	SLU 10	-0.80979	-0.97175	SLV FO 3	-0.53866	-0.64639
906	SLU 10	-0.8729	-1.04748	SLU 1	-0.63619	-0.76343
907	SLU 10	-0.87132	-1.04559	SLU 1	-0.63585	-0.76302
908	SLU 10	-0.87953	-1.05543	SLU 1	-0.64167	-0.77
909	SLU 10	-0.8266	-0.99192	SLV FO 3	-0.59029	-0.70834
910	SLU 10	-0.87927	-1.05513	SLU 1	-0.64132	-0.76958
911	SLU 10	-0.88212	-1.05855	SLU 1	-0.64324	-0.77189
912	SLU 10	-0.94401	-1.13281	SLV FO 15	-0.58202	-0.69843
913	SLU 10	-0.88295	-1.05954	SLU 1	-0.64301	-0.77161
914	SLU 10	-0.89276	-1.07131	SLU 1	-0.65075	-0.7809
915	SLU 10	-0.87948	-1.05538	SLU 1	-0.63974	-0.76768
916	SLU 10	-0.88954	-1.06745	SLU 1	-0.64842	-0.77811
917	SLU 10	-0.90657	-1.08789	SLV FO 15	-0.59656	-0.71587
918	SLU 10	-0.88835	-1.06602	SLU 1	-0.6477	-0.77724
919	SLU 10	-0.88099	-1.05719	SLU 1	-0.64161	-0.76993
920	SLU 10	-0.81797	-0.98156	SLV FO 3	-0.55385	-0.66461
921	SLU 10	-0.87777	-1.05333	SLU 1	-0.64031	-0.76838
922	SLU 10	-0.88204	-1.05845	SLU 1	-0.64333	-0.77199
923	SLU 10	-0.88604	-1.06325	SLU 1	-0.64597	-0.77516
924	SLU 10	-0.82605	-0.99126	SLV FO 3	-0.58156	-0.69787
925	SLU 10	-0.88459	-1.06151	SLU 1	-0.64446	-0.77336
926	SLU 10	-0.89237	-1.07084	SLU 1	-0.64936	-0.77923
927	SLU 10	-0.89398	-1.07277	SLU 1	-0.65046	-0.78055
928	SLU 10	-0.89275	-1.0713	SLU 1	-0.64962	-0.77955
929	SLU 10	-0.92563	-1.11076	SLV FO 15	-0.5911	-0.70932
930	SLU 10	-0.88171	-1.05805	SLU 1	-0.64305	-0.77166
931	SLU 10	-0.88989	-1.06787	SLU 1	-0.64863	-0.77835
932	SLU 10	-0.88859	-1.06631	SLU 1	-0.64681	-0.77617
933	SLU 10	-0.88871	-1.06645	SLU 1	-0.64685	-0.77622
934	SLU 10	-0.89293	-1.07152	SLU 1	-0.65084	-0.78101
935	SLU 10	-0.8837	-1.06044	SLU 1	-0.64322	-0.77187
936	SLU 10	-0.82332	-0.98799	SLV FO 3	-0.5684	-0.68208
937	SLU 10	-0.96263	-1.15516	SLV FO 15	-0.57879	-0.69455
939	SLU 10	-0.76471	-0.91765	SLV FO 1	-0.47564	-0.57077
940	SLU 10	-0.85266	-1.02319	SLV FO 13	-0.61539	-0.73847
941	SLU 10	-0.87155	-1.04586	SLU 1	-0.63632	-0.76358
942	SLU 10	-0.85876	-1.03051	SLU 1	-0.62702	-0.75243
943	SLU 10	-0.83741	-1.0049	SLU 1	-0.60643	-0.72771
944	SLU 10	-0.85564	-1.02677	SLV FO 13	-0.61108	-0.7333
945	SLU 10	-0.85986	-1.03183	SLU 1	-0.62767	-0.7532
946	SLU 10	-0.87764	-1.05317	SLU 1	-0.64073	-0.76887
947	SLU 10	-0.84504	-1.01404	SLU 1	-0.61271	-0.73525
948	SLU 10	-0.86154	-1.03385	SLU 1	-0.62903	-0.75484
949	SLU 10	-0.87497	-1.04997	SLU 1	-0.63895	-0.76674
950	SLU 10	-0.8738	-1.04855	SLU 1	-0.63783	-0.7654
951	SLU 10	-0.87138	-1.04566	SLU 1	-0.6362	-0.76344
952	SLU 10	-0.85371	-1.02445	SLV FO 13	-0.62124	-0.74548
953	SLU 10	-0.77683	-0.9322	SLV FO 1	-0.4929	-0.59148
954	SLU 10	-0.8629	-1.03549	SLV FO 13	-0.6081	-0.72971
955	SLU 10	-0.83191	-0.99829	SLU 1	-0.60156	-0.72188
956	SLU 10	-0.85998	-1.03197	SLU 1	-0.62782	-0.75338
957	SLU 10	-0.8818	-1.05815	SLU 1	-0.64349	-0.77218
958	SLU 10	-0.86066	-1.03279	SLU 1	-0.62842	-0.7541
959	SLU 10	-0.86366	-1.0364	SLU 1	-0.63015	-0.75618
960	SLU 10	-0.85414	-1.02497	SLU 1	-0.61994	-0.74393
961	SLU 10	-0.86606	-1.03927	SLU 1	-0.63224	-0.75869
962	SLU 10	-0.87438	-1.04926	SLU 1	-0.63853	-0.76624
963	SLU 10	-0.78874	-0.94649	SLV FO 1	-0.5095	-0.6114
964	SLU 10	-0.87768	-1.05322	SLU 1	-0.64045	-0.76854
965	SLU 10	-0.87426	-1.04912	SLV FO 13	-0.60576	-0.72691
966	SLU 10	-0.88657	-1.06389	SLU 1	-0.64666	-0.77599
967	SLU 10	-0.8732	-1.04784	SLU 1	-0.63742	-0.76491
968	SLU 10	-0.85803	-1.02964	SLU 1	-0.6266	-0.75191
969	SLU 10	-0.86532	-1.03838	SLU 1	-0.63168	-0.75801
970	SLU 10	-0.82863	-0.99436	SLU 1	-0.59824	-0.71789
971	SLU 10	-0.86161	-1.03393	SLU 1	-0.62877	-0.75453
972	SLU 10	-0.86954	-1.04345	SLU 1	-0.63404	-0.76085
973	SLU 10	-0.86383	-1.0366	SLU 1	-0.6275	-0.753
974	SLU 10	-0.87589	-1.05107	SLU 1	-0.63948	-0.76737
975	SLU 10	-0.87301	-1.04761	SLU 1	-0.6371	-0.76452
976	SLU 10	-0.79996	-0.95995	SLV FO 1	-0.5253	-0.63036
977	SLU 10	-0.87638	-1.05166	SLU 1	-0.63956	-0.76748
978	SLU 10	-0.88239	-1.05887	SLU 1	-0.64363	-0.77235
979	SLU 10	-0.8645	-1.0374	SLU 1	-0.63112	-0.75734
980	SLU 10	-0.86627	-1.03953	SLU 1	-0.6318	-0.75816
981	SLU 10	-0.82725	-0.9927	SLU 1	-0.5963	-0.71556
982	SLU 10	-0.87206	-1.04647	SLU 1	-0.63634	-0.76361
983	SLU 10	-0.87646	-1.05175	SLU 1	-0.63866	-0.76639
984	SLU 10	-0.89062	-1.06874	SLU 1	-0.64934	-0.7792
985	SLU 10	-0.87282	-1.04739	SLU 1	-0.63448	-0.76137
986	SLU 10	-0.87896	-1.05475	SLU 1	-0.64139	-0.76966
987	SLU 10	-0.88917	-1.067	SLV FO 13	-0.60298	-0.72358
988	SLU 10	-0.88684	-1.06421	SLU 1	-0.64662	-0.77595
989	SLU 10	-0.80997	-0.97196	SLV FO 1	-0.54043	-0.64851
990	SLU 10	-0.88117	-1.05741	SLU 1	-0.64275	-0.7713
991	SLU 10	-0.87167	-1.04601	SLU 1	-0.63609	-0.7633
992	SLU 10	-0.87321	-1.04786	SLU 1	-0.6364	-0.76368
993	SLU 10	-0.87987	-1.05585	SLU 1	-0.6419	-0.77028
994	SLU 10	-0.82688	-0.99226	SLV FO 1	-0.59212	-0.71054
995	SLU 10	-0.87957	-1.05548	SLU 1	-0.64151	-0.76982
996	SLU 10	-0.88246	-1.05895	SLU 1	-0.64346	-0.77216
997	SLU 10	-0.94407	-1.13288	SLV FO 13	-0.58475	-0.70171
998	SLU 10	-0.88308	-1.0597	SLU 1	-0.6431	-0.77171
999	SLU 10	-0.89294	-1.07153	SLU 1	-0.65087	-0.78104
1000	SLU 10	-0.87965	-1.05558	SLU 1	-0.63985	-0.76782
1001	SLU 10	-0.88972	-1.06766	SLU 1	-0.64854	-0.77825
1002	SLU 10	-0.9067	-1.08804	SLV FO 13	-0.59852	-0.71823

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
1003	SLU 10	-0.88854	-1.06624	SLU 1	-0.64783	-0.77739
1004	SLU 10	-0.81806	-0.98168	SLV FO 1	-0.55497	-0.66596
1005	SLU 10	-0.8812	-1.05744	SLU 1	-0.64175	-0.7701
1006	SLU 10	-0.87793	-1.05352	SLU 1	-0.64042	-0.7685
1007	SLU 10	-0.88218	-1.05862	SLU 1	-0.64342	-0.77211
1008	SLU 10	-0.82616	-0.99139	SLV FO 1	-0.58254	-0.69905
1009	SLU 10	-0.88616	-1.0634	SLU 1	-0.64605	-0.77526
1010	SLU 10	-0.89237	-1.07085	SLU 1	-0.64936	-0.77923
1011	SLU 10	-0.88472	-1.06166	SLU 1	-0.64455	-0.77346
1012	SLU 10	-0.89399	-1.07279	SLU 1	-0.65047	-0.78056
1013	SLU 10	-0.89275	-1.0713	SLU 1	-0.64963	-0.77955
1014	SLU 10	-0.92562	-1.11074	SLV FO 13	-0.5911	-0.70933
1015	SLU 10	-0.8817	-1.05804	SLU 1	-0.64304	-0.77165
1016	SLU 10	-0.88989	-1.06786	SLU 1	-0.64862	-0.77835
1017	SLU 10	-0.88858	-1.0663	SLU 1	-0.6468	-0.77616
1018	SLU 10	-0.8887	-1.06644	SLU 1	-0.64684	-0.77621
1019	SLU 10	-0.89293	-1.07151	SLU 1	-0.65084	-0.78101
1020	SLU 10	-0.8837	-1.06044	SLU 1	-0.64322	-0.77186
1021	SLU 10	-0.82332	-0.98799	SLV FO 1	-0.5684	-0.68208
1022	SLU 10	-0.96258	-1.1551	SLV FO 13	-0.57336	-0.68804
1024	SLU 10	-0.7645	-0.9174	SLV FO 1	-0.47346	-0.56816
1025	SLU 10	-0.85166	-1.02199	SLV FO 13	-0.61031	-0.73238
1026	SLU 10	-0.87044	-1.04453	SLU 1	-0.63556	-0.76268
1027	SLU 10	-0.8578	-1.02936	SLV FO 9	-0.62543	-0.75051
1028	SLU 10	-0.83649	-1.00379	SLU 1	-0.60582	-0.72699
1029	SLU 10	-0.85468	-1.02562	SLV FO 13	-0.60599	-0.72719
1030	SLU 10	-0.85896	-1.03075	SLV FO 9	-0.62534	-0.75041
1031	SLU 10	-0.87661	-1.05193	SLU 1	-0.64003	-0.76804
1032	SLU 10	-0.84414	-1.01297	SLU 1	-0.61212	-0.73455
1033	SLU 10	-0.86056	-1.03267	SLU 1	-0.62837	-0.75404
1034	SLU 10	-0.87387	-1.04865	SLU 1	-0.63821	-0.76585
1035	SLU 10	-0.8727	-1.04724	SLU 1	-0.63709	-0.76451
1036	SLU 10	-0.77657	-0.93189	SLV FO 1	-0.49052	-0.58863
1037	SLU 10	-0.87026	-1.04432	SLV FO 5	-0.63452	-0.76142
1038	SLU 10	-0.8527	-1.02324	SLV FO 13	-0.61612	-0.73935
1039	SLU 10	-0.86203	-1.03443	SLV FO 13	-0.60296	-0.72355
1040	SLU 10	-0.85965	-1.03158	SLV FO 9	-0.62716	-0.75259
1041	SLU 10	-0.83095	-0.99714	SLU 1	-0.60094	-0.72113
1042	SLU 10	-0.88085	-1.05702	SLU 1	-0.64285	-0.77142
1043	SLU 10	-0.85898	-1.03077	SLV FO 5	-0.62636	-0.75163
1044	SLU 10	-0.86284	-1.03541	SLV FO 9	-0.62686	-0.75223
1045	SLU 10	-0.8533	-1.02396	SLU 1	-0.61938	-0.74326
1046	SLU 10	-0.87324	-1.04788	SLU 1	-0.63776	-0.76531
1047	SLU 10	-0.78845	-0.94614	SLV FO 1	-0.50693	-0.60832
1048	SLU 10	-0.86508	-1.0381	SLU 1	-0.63159	-0.7579
1049	SLU 10	-0.87664	-1.05196	SLV FO 9	-0.63872	-0.76646
1050	SLU 10	-0.85705	-1.02847	SLV FO 9	-0.62185	-0.74621
1051	SLU 10	-0.87349	-1.04819	SLV FO 13	-0.60055	-0.72066
1052	SLU 10	-0.88576	-1.06291	SLU 1	-0.64611	-0.77533
1053	SLU 10	-0.87209	-1.04651	SLV FO 5	-0.63403	-0.76083
1054	SLU 10	-0.86061	-1.03273	SLV FO 5	-0.62572	-0.75087
1055	SLU 10	-0.86882	-1.04259	SLV FO 9	-0.62978	-0.75573
1056	SLU 10	-0.86308	-1.03569	SLU 1	-0.627	-0.7524
1057	SLU 10	-0.86432	-1.03718	SLV FO 9	-0.6302	-0.75624
1058	SLU 10	-0.82767	-0.99321	SLU 1	-0.59762	-0.71714
1059	SLU 10	-0.87473	-1.04968	SLU 1	-0.63869	-0.76643
1060	SLU 10	-0.79966	-0.95959	SLV FO 1	-0.52257	-0.62708
1061	SLU 10	-0.87207	-1.04649	SLU 1	-0.63647	-0.76376
1062	SLU 10	-0.88144	-1.05773	SLV FO 9	-0.64015	-0.76818
1063	SLU 10	-0.8636	-1.03632	SLV FO 9	-0.62641	-0.75169
1064	SLU 10	-0.87534	-1.05041	SLV FO 5	-0.6343	-0.76117
1065	SLU 10	-0.87107	-1.04528	SLV FO 5	-0.634	-0.7608
1066	SLU 10	-0.86534	-1.03841	SLV FO 5	-0.62692	-0.7523
1067	SLU 10	-0.87586	-1.05103	SLV FO 9	-0.63327	-0.75993
1068	SLU 10	-0.88988	-1.06786	SLV FO 5	-0.64754	-0.77704
1069	SLU 10	-0.87215	-1.04658	SLU 1	-0.63403	-0.76084
1070	SLU 10	-0.82635	-0.99161	SLV FO 1	-0.59528	-0.71433
1071	SLU 10	-0.87786	-1.05343	SLU 1	-0.64064	-0.76877
1072	SLU 10	-0.88848	-1.06618	SLV FO 13	-0.59766	-0.71719
1073	SLU 10	-0.80971	-0.97165	SLV FO 1	-0.53766	-0.64519
1074	SLU 10	-0.88601	-1.06321	SLV FO 9	-0.64151	-0.76981
1075	SLU 10	-0.87087	-1.04504	SLV FO 9	-0.63108	-0.75729
1076	SLU 10	-0.88031	-1.05637	SLV FO 5	-0.64161	-0.76994
1077	SLU 10	-0.87892	-1.05471	SLV FO 5	-0.63464	-0.76157
1078	SLU 10	-0.87866	-1.05439	SLV FO 5	-0.63762	-0.76515
1079	SLU 10	-0.87246	-1.04695	SLV FO 5	-0.62967	-0.7556
1080	SLU 10	-0.82608	-0.99129	SLV FO 1	-0.58845	-0.70614
1081	SLU 10	-0.88148	-1.05778	SLV FO 9	-0.64179	-0.77015
1082	SLU 10	-0.94385	-1.13262	SLV FO 13	-0.5794	-0.69528
1083	SLU 10	-0.88254	-1.05904	SLV FO 9	-0.6356	-0.76272
1084	SLU 10	-0.8922	-1.07064	SLV FO 5	-0.64706	-0.77647
1085	SLU 10	-0.87896	-1.05476	SLU 1	-0.63939	-0.76727
1086	SLU 10	-0.8177	-0.98124	SLV FO 1	-0.55194	-0.66233
1087	SLU 10	-0.88894	-1.06673	SLV FO 9	-0.64165	-0.76998
1088	SLU 10	-0.90609	-1.08731	SLV FO 13	-0.59312	-0.71174
1089	SLU 10	-0.87719	-1.05262	SLV FO 9	-0.6348	-0.76176
1090	SLU 10	-0.88778	-1.06534	SLV FO 5	-0.64512	-0.77415
1091	SLU 10	-0.8806	-1.05672	SLV FO 5	-0.63342	-0.76011
1092	SLU 10	-0.88133	-1.0576	SLV FO 5	-0.63459	-0.76151
1093	SLU 10	-0.89209	-1.07051	SLV FO 5	-0.64207	-0.77049
1094	SLU 10	-0.88535	-1.06242	SLV FO 9	-0.64008	-0.76809
1095	SLU 10	-0.82548	-0.99058	SLV FO 1	-0.57899	-0.69479
1096	SLU 10	-0.88387	-1.06065	SLV FO 9	-0.64217	-0.77061
1097	SLU 10	-0.89379	-1.07254	SLV FO 5	-0.64279	-0.77135
1098	SLU 10	-0.89249	-1.07098	SLV FO 9	-0.64117	-0.76941
1099	SLU 10	-0.9251	-1.11012	SLV FO 13	-0.58568	-0.70282
1100	SLU 10	-0.88081	-1.05698	SLV FO 5	-0.63327	-0.75993
1101	SLU 10	-0.88901	-1.06681	SLV FO 9	-0.63937	-0.76724

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
1102	SLU 10	-0.88807	-1.06569	SLV FO 9	-0.63666	-0.764
1103	SLU 10	-0.88818	-1.06582	SLV FO 5	-0.63656	-0.76387
1104	SLU 10	-0.89205	-1.07046	SLV FO 5	-0.64478	-0.77374
1105	SLU 10	-0.88286	-1.05943	SLV FO 9	-0.64093	-0.76912
1106	SLU 10	-0.82273	-0.98728	SLV FO 1	-0.56502	-0.67802
1107	SLU 10	-0.96222	-1.15466	SLV FO 13	-0.56819	-0.68182
1109	SLU 10	-0.76381	-0.91658	SLV FO 1	-0.47114	-0.56537
1110	SLU 10	-0.8486	-1.01832	SLV FO 9	-0.59979	-0.71975
1111	SLU 10	-0.86702	-1.04042	SLV FO 5	-0.61878	-0.74253
1112	SLU 10	-0.85485	-1.02582	SLV FO 9	-0.60876	-0.73051
1113	SLU 10	-0.83365	-1.00038	SLV FO 5	-0.59991	-0.71989
1114	SLU 10	-0.85174	-1.02209	SLV FO 13	-0.59962	-0.71955
1115	SLU 10	-0.85618	-1.02742	SLV FO 9	-0.60868	-0.73041
1116	SLU 10	-0.87343	-1.04811	SLV FO 5	-0.62888	-0.75466
1117	SLU 10	-0.84138	-1.00966	SLV FO 5	-0.60586	-0.72703
1118	SLU 10	-0.85756	-1.02907	SLV FO 5	-0.6132	-0.73584
1119	SLU 10	-0.87051	-1.04461	SLV FO 5	-0.62851	-0.75421
1120	SLU 10	-0.86937	-1.04324	SLV FO 9	-0.62047	-0.74457
1121	SLU 10	-0.86687	-1.04024	SLV FO 5	-0.61726	-0.74071
1122	SLU 10	-0.77574	-0.93088	SLV FO 1	-0.48798	-0.58558
1123	SLU 10	-0.84966	-1.01959	SLV FO 9	-0.60166	-0.72199
1124	SLU 10	-0.85934	-1.03121	SLV FO 13	-0.59661	-0.71593
1125	SLU 10	-0.85666	-1.02799	SLV FO 9	-0.61046	-0.73255
1126	SLU 10	-0.87794	-1.05353	SLV FO 5	-0.63003	-0.75603
1127	SLU 10	-0.82812	-0.99375	SLV FO 5	-0.59488	-0.71386
1128	SLU 10	-0.86036	-1.03243	SLV FO 9	-0.61016	-0.73219
1129	SLU 10	-0.85598	-1.02718	SLV FO 5	-0.61049	-0.73259
1130	SLU 10	-0.85072	-1.02087	SLV FO 5	-0.61248	-0.73497
1131	SLU 10	-0.86987	-1.04384	SLV FO 9	-0.62719	-0.75262
1132	SLU 10	-0.78753	-0.94503	SLV FO 1	-0.5042	-0.60504
1133	SLU 10	-0.86213	-1.03456	SLV FO 5	-0.6168	-0.74016
1134	SLU 10	-0.87356	-1.04827	SLV FO 9	-0.62148	-0.74578
1135	SLU 10	-0.85415	-1.02498	SLV FO 9	-0.60502	-0.72603
1136	SLU 10	-0.87117	-1.0454	SLV FO 13	-0.59427	-0.71312
1137	SLU 10	-0.88328	-1.05993	SLV FO 5	-0.63181	-0.75818
1138	SLU 10	-0.86885	-1.04262	SLV FO 5	-0.61663	-0.73995
1139	SLU 10	-0.86138	-1.03366	SLV FO 9	-0.61335	-0.73603
1140	SLU 10	-0.86671	-1.04005	SLV FO 9	-0.61289	-0.73547
1141	SLU 10	-0.85777	-1.02933	SLV FO 5	-0.6096	-0.73152
1142	SLU 10	-0.86081	-1.03298	SLV FO 5	-0.6194	-0.74328
1143	SLU 10	-0.82498	-0.98998	SLV FO 5	-0.59085	-0.70901
1144	SLU 10	-0.87146	-1.04575	SLV FO 9	-0.62676	-0.75211
1145	SLU 10	-0.79873	-0.95848	SLV FO 1	-0.5197	-0.62364
1146	SLU 10	-0.87878	-1.05453	SLV FO 9	-0.62301	-0.74761
1147	SLU 10	-0.86103	-1.03323	SLV FO 9	-0.6095	-0.73141
1148	SLU 10	-0.86932	-1.04318	SLV FO 5	-0.62142	-0.74571
1149	SLU 10	-0.87239	-1.04687	SLV FO 5	-0.61671	-0.74005
1150	SLU 10	-0.86835	-1.04202	SLV FO 9	-0.61694	-0.74033
1151	SLU 10	-0.86279	-1.03535	SLV FO 5	-0.61049	-0.73259
1152	SLU 10	-0.82394	-0.98873	SLV FO 5	-0.58763	-0.70516
1153	SLU 10	-0.87415	-1.04898	SLV FO 9	-0.61619	-0.73943
1154	SLU 10	-0.88778	-1.06534	SLV FO 5	-0.63277	-0.75932
1155	SLU 10	-0.87023	-1.04427	SLV FO 5	-0.62564	-0.75077
1156	SLU 10	-0.87488	-1.04985	SLV FO 9	-0.62746	-0.75295
1157	SLU 10	-0.88656	-1.06388	SLV FO 13	-0.59149	-0.70979
1158	SLU 10	-0.8838	-1.06056	SLV FO 9	-0.62439	-0.74927
1159	SLU 10	-0.80879	-0.97055	SLV FO 1	-0.53461	-0.64153
1160	SLU 10	-0.86871	-1.04245	SLV FO 9	-0.61411	-0.73693
1161	SLU 10	-0.87791	-1.05349	SLV FO 5	-0.62619	-0.75142
1162	SLU 10	-0.8763	-1.05156	SLV FO 5	-0.62042	-0.7445
1163	SLU 10	-0.82406	-0.98887	SLV FO 1	-0.58403	-0.70084
1164	SLU 10	-0.87641	-1.05169	SLV FO 5	-0.61701	-0.74041
1165	SLU 10	-0.87037	-1.04444	SLV FO 5	-0.61281	-0.73537
1166	SLU 10	-0.87895	-1.05474	SLV FO 9	-0.62858	-0.7543
1167	SLU 10	-0.94313	-1.13176	SLV FO 13	-0.574	-0.6888
1168	SLU 10	-0.8753	-1.05037	SLV FO 9	-0.61765	-0.74118
1169	SLU 10	-0.88702	-1.06443	SLV FO 9	-0.62438	-0.74925
1170	SLU 10	-0.88112	-1.05735	SLV FO 9	-0.61833	-0.74199
1171	SLU 10	-0.89029	-1.06835	SLV FO 5	-0.63212	-0.75854
1172	SLU 10	-0.87719	-1.05262	SLV FO 9	-0.62894	-0.75473
1173	SLU 10	-0.81671	-0.98005	SLV FO 1	-0.54864	-0.65837
1174	SLU 10	-0.90456	-1.08547	SLV FO 13	-0.58714	-0.70456
1175	SLU 10	-0.88577	-1.06293	SLV FO 5	-0.62984	-0.7558
1176	SLU 10	-0.87902	-1.05482	SLV FO 5	-0.6162	-0.73944
1177	SLU 10	-0.89124	-1.06948	SLV FO 5	-0.6247	-0.74964
1178	SLU 10	-0.88334	-1.06	SLV FO 9	-0.62273	-0.74728
1179	SLU 10	-0.87923	-1.05508	SLV FO 5	-0.61699	-0.74039
1180	SLU 10	-0.88182	-1.05818	SLV FO 9	-0.62914	-0.75497
1181	SLU 10	-0.82387	-0.98864	SLV FO 1	-0.57484	-0.68981
1182	SLU 10	-0.89307	-1.07168	SLV FO 5	-0.62553	-0.75064
1183	SLU 10	-0.89163	-1.06996	SLV FO 9	-0.62371	-0.74846
1184	SLU 10	-0.92384	-1.1086	SLV FO 13	-0.57992	-0.69591
1185	SLU 10	-0.87879	-1.05455	SLV FO 5	-0.61564	-0.73876
1186	SLU 10	-0.88702	-1.06442	SLV FO 9	-0.62184	-0.7462
1187	SLU 10	-0.88682	-1.06419	SLV FO 9	-0.61921	-0.74305
1188	SLU 10	-0.88693	-1.06432	SLV FO 5	-0.61911	-0.74293
1189	SLU 10	-0.89006	-1.06807	SLV FO 5	-0.62964	-0.75557
1190	SLU 10	-0.88093	-1.05712	SLV FO 9	-0.62796	-0.75355
1191	SLU 10	-0.8214	-0.98568	SLV FO 1	-0.56124	-0.67348
1192	SLU 10	-0.96082	-1.15299	SLV FO 13	-0.56301	-0.67561
1194	SLU 10	-0.76265	-0.91518	SLV FO 1	-0.46866	-0.56239
1195	SLU 10	-0.84317	-1.0118	SLV FO 9	-0.58227	-0.69872
1196	SLU 10	-0.86097	-1.03316	SLV FO 5	-0.60034	-0.72041
1197	SLU 10	-0.84962	-1.01954	SLV FO 9	-0.5911	-0.70932
1198	SLU 10	-0.82866	-0.99439	SLV FO 5	-0.58702	-0.70443
1199	SLU 10	-0.84649	-1.01579	SLV FO 9	-0.58239	-0.69887
1200	SLU 10	-0.8512	-1.02144	SLV FO 9	-0.59109	-0.70931
1201	SLU 10	-0.86772	-1.04127	SLV FO 5	-0.61352	-0.73623

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
1202	SLU 10	-0.83644	-1.00373	SLV FO 5	-0.5928	-0.71136
1203	SLU 10	-0.86461	-1.03753	SLV FO 5	-0.6133	-0.73595
1204	SLU 10	-0.77424	-0.92908	SLV FO 1	-0.48524	-0.58228
1205	SLU 10	-0.85134	-1.02161	SLV FO 9	-0.59274	-0.71129
1206	SLU 10	-0.86345	-1.03614	SLV FO 9	-0.60215	-0.72258
1207	SLU 10	-0.84421	-1.01306	SLV FO 9	-0.58404	-0.70085
1208	SLU 10	-0.85448	-1.02537	SLV FO 9	-0.58457	-0.70148
1209	SLU 10	-0.86085	-1.03302	SLV FO 5	-0.59881	-0.71857
1210	SLU 10	-0.85216	-1.02259	SLV FO 5	-0.59631	-0.71557
1211	SLU 10	-0.82328	-0.98794	SLV FO 5	-0.58228	-0.69873
1212	SLU 10	-0.86398	-1.03678	SLV FO 9	-0.61222	-0.73466
1213	SLU 10	-0.87261	-1.04713	SLV FO 5	-0.61452	-0.73743
1214	SLU 10	-0.84603	-1.01523	SLV FO 5	-0.59928	-0.71914
1215	SLU 10	-0.85576	-1.02692	SLV FO 9	-0.59251	-0.71102
1216	SLU 10	-0.85069	-1.02082	SLV FO 5	-0.5936	-0.71232
1217	SLU 10	-0.78578	-0.94294	SLV FO 1	-0.50122	-0.60147
1218	SLU 10	-0.86805	-1.04166	SLV FO 9	-0.60337	-0.72404
1219	SLU 10	-0.849	-1.01879	SLV FO 9	-0.58752	-0.70502
1220	SLU 10	-0.8568	-1.02816	SLV FO 5	-0.60009	-0.72011
1221	SLU 10	-0.86686	-1.04023	SLV FO 13	-0.58675	-0.7041
1222	SLU 10	-0.86304	-1.03565	SLV FO 5	-0.5982	-0.71784
1223	SLU 10	-0.85613	-1.02735	SLV FO 9	-0.59548	-0.71458
1224	SLU 10	-0.82039	-0.98447	SLV FO 5	-0.57846	-0.69416
1225	SLU 10	-0.87849	-1.05419	SLV FO 5	-0.61614	-0.73937
1226	SLU 10	-0.86276	-1.03532	SLV FO 9	-0.59537	-0.71444
1227	SLU 10	-0.85274	-1.02329	SLV FO 5	-0.59263	-0.71116
1228	SLU 10	-0.85654	-1.02784	SLV FO 5	-0.60609	-0.72731
1229	SLU 10	-0.86575	-1.0389	SLV FO 9	-0.6121	-0.73452
1230	SLU 10	-0.79687	-0.95625	SLV FO 1	-0.51655	-0.61986
1231	SLU 10	-0.87376	-1.04851	SLV FO 9	-0.60484	-0.72581
1232	SLU 10	-0.85623	-1.02748	SLV FO 9	-0.59177	-0.71012
1233	SLU 10	-0.86423	-1.03707	SLV FO 5	-0.60494	-0.72593
1234	SLU 10	-0.86706	-1.04047	SLV FO 5	-0.59846	-0.71815
1235	SLU 10	-0.81973	-0.98367	SLV FO 5	-0.57541	-0.6905
1236	SLU 10	-0.86337	-1.03604	SLV FO 9	-0.59891	-0.71869
1237	SLU 10	-0.86956	-1.04347	SLV FO 9	-0.61309	-0.73571
1238	SLU 10	-0.85819	-1.02983	SLV FO 5	-0.59332	-0.71199
1239	SLU 10	-0.87086	-1.04503	SLV FO 9	-0.59857	-0.71829
1240	SLU 10	-0.86648	-1.03977	SLV FO 5	-0.61227	-0.73473
1241	SLU 10	-0.88362	-1.06035	SLV FO 5	-0.61703	-0.74043
1242	SLU 10	-0.8829	-1.05948	SLV FO 13	-0.58427	-0.70112
1243	SLU 10	-0.80693	-0.96831	SLV FO 1	-0.53128	-0.63754
1244	SLU 10	-0.87948	-1.05538	SLV FO 9	-0.60628	-0.72754
1245	SLU 10	-0.8645	-1.0374	SLV FO 9	-0.59628	-0.71554
1246	SLU 10	-0.87329	-1.04795	SLV FO 5	-0.60998	-0.73198
1247	SLU 10	-0.87173	-1.04608	SLV FO 5	-0.59892	-0.7187
1248	SLU 10	-0.82043	-0.98451	SLV FO 5	-0.57245	-0.68694
1249	SLU 10	-0.87184	-1.04621	SLV FO 5	-0.60239	-0.72287
1250	SLU 10	-0.87428	-1.04913	SLV FO 9	-0.61451	-0.73741
1251	SLU 10	-0.8664	-1.03968	SLV FO 5	-0.59547	-0.71457
1252	SLU 10	-0.94126	-1.12951	SLV FO 13	-0.56834	-0.68201
1253	SLU 10	-0.87158	-1.0459	SLV FO 9	-0.5996	-0.71951
1254	SLU 10	-0.88328	-1.05994	SLV FO 9	-0.60629	-0.72755
1255	SLU 10	-0.87835	-1.05402	SLV FO 9	-0.60063	-0.72075
1256	SLU 10	-0.88665	-1.06398	SLV FO 5	-0.61648	-0.73977
1257	SLU 10	-0.87376	-1.04852	SLV FO 9	-0.61538	-0.73846
1258	SLU 10	-0.81467	-0.9776	SLV FO 1	-0.54482	-0.65379
1259	SLU 10	-0.90156	-1.08188	SLV FO 13	-0.58034	-0.69641
1260	SLU 10	-0.88187	-1.05824	SLV FO 5	-0.61378	-0.73654
1261	SLU 10	-0.8759	-1.05109	SLV FO 5	-0.59855	-0.71826
1262	SLU 10	-0.87948	-1.05538	SLV FO 9	-0.6047	-0.72563
1263	SLU 10	-0.87793	-1.05352	SLV FO 9	-0.61537	-0.73844
1264	SLU 10	-0.82095	-0.98514	SLV FO 5	-0.56856	-0.68227
1265	SLU 10	-0.88916	-1.06699	SLV FO 5	-0.60685	-0.72822
1266	SLU 10	-0.89105	-1.06926	SLV FO 5	-0.60798	-0.72958
1267	SLU 10	-0.87523	-1.05028	SLV FO 5	-0.59875	-0.7185
1268	SLU 10	-0.88952	-1.06742	SLV FO 9	-0.60606	-0.72727
1269	SLU 10	-0.92125	-1.1055	SLV FO 13	-0.57359	-0.68831
1270	SLU 10	-0.87498	-1.04998	SLV FO 5	-0.59732	-0.71679
1271	SLU 10	-0.88326	-1.05992	SLV FO 9	-0.60364	-0.72437
1272	SLU 10	-0.88425	-1.06109	SLV FO 9	-0.60131	-0.72158
1273	SLU 10	-0.88435	-1.06123	SLV FO 5	-0.60123	-0.72148
1274	SLU 10	-0.88631	-1.06357	SLV FO 5	-0.61376	-0.73651
1275	SLU 10	-0.87732	-1.05279	SLV FO 9	-0.61419	-0.73703
1276	SLU 10	-0.81894	-0.98273	SLV FO 1	-0.55686	-0.66824
1277	SLU 10	-0.95696	-1.14836	SLV FO 13	-0.55726	-0.66872
1279	SLU 10	-0.76098	-0.91318	SLV FO 1	-0.466	-0.5592
1280	SLU 10	-0.83496	-1.00195	SLV FO 9	-0.56375	-0.67649
1281	SLU 10	-0.8519	-1.02228	SLV FO 5	-0.58076	-0.69691
1282	SLU 10	-0.8417	-1.01004	SLV FO 9	-0.57247	-0.68696
1283	SLU 10	-0.85585	-1.02702	SLV FO 9	-0.59688	-0.71625
1284	SLU 10	-0.82122	-0.98547	SLV FO 5	-0.57308	-0.6877
1285	SLU 10	-0.77202	-0.92642	SLV FO 1	-0.48232	-0.57878
1286	SLU 10	-0.83853	-1.00624	SLV FO 9	-0.5639	-0.67668
1287	SLU 10	-0.83602	-1.00323	SLV FO 9	-0.56562	-0.67875
1288	SLU 10	-0.8546	-1.02552	SLV FO 9	-0.58294	-0.69952
1289	SLU 10	-0.84358	-1.0123	SLV FO 9	-0.57257	-0.68708
1290	SLU 10	-0.85903	-1.03084	SLV FO 5	-0.59691	-0.71629
1291	SLU 10	-0.82894	-0.99473	SLV FO 5	-0.57865	-0.69438
1292	SLU 10	-0.84326	-1.01191	SLV FO 9	-0.57393	-0.68871
1293	SLU 10	-0.85181	-1.02217	SLV FO 5	-0.5793	-0.69516
1294	SLU 10	-0.85522	-1.02627	SLV FO 9	-0.59599	-0.71519
1295	SLU 10	-0.84692	-1.01631	SLV FO 9	-0.56606	-0.67927
1296	SLU 10	-0.81605	-0.97926	SLV FO 5	-0.56858	-0.6823
1297	SLU 10	-0.84407	-1.01288	SLV FO 5	-0.57853	-0.69423
1298	SLU 10	-0.83866	-1.0064	SLV FO 5	-0.585	-0.702
1299	SLU 10	-0.84863	-1.01836	SLV FO 9	-0.57416	-0.68899
1300	SLU 10	-0.86424	-1.03709	SLV FO 5	-0.59783	-0.7174

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
1301	SLU 10	-0.8428	-1.01136	SLV FO 5	-0.57591	-0.69109
1302	SLU 10	-0.783	-0.9396	SLV FO 1	-0.49794	-0.59753
1303	SLU 10	-0.8409	-1.00908	SLV FO 9	-0.56896	-0.68276
1304	SLU 10	-0.85949	-1.03139	SLV FO 9	-0.58421	-0.70105
1305	SLU 10	-0.84869	-1.01843	SLV FO 5	-0.58253	-0.69904
1306	SLU 10	-0.85431	-1.02517	SLV FO 5	-0.57904	-0.69485
1307	SLU 10	-0.85988	-1.03185	SLV FO 9	-0.56977	-0.68372
1308	SLU 10	-0.84804	-1.01765	SLV FO 9	-0.5766	-0.69192
1309	SLU 10	-0.85715	-1.02858	SLV FO 9	-0.59623	-0.71547
1310	SLU 10	-0.8135	-0.97621	SLV FO 5	-0.56507	-0.67809
1311	SLU 10	-0.84512	-1.01414	SLV FO 5	-0.57488	-0.68986
1312	SLU 10	-0.84948	-1.01937	SLV FO 5	-0.59168	-0.71002
1313	SLU 10	-0.85619	-1.02742	SLV FO 9	-0.57695	-0.69234
1314	SLU 10	-0.87055	-1.04466	SLV FO 5	-0.59927	-0.71913
1315	SLU 10	-0.79367	-0.9524	SLV FO 1	-0.51295	-0.61554
1316	SLU 10	-0.84848	-1.01817	SLV FO 9	-0.5732	-0.68784
1317	SLU 10	-0.86569	-1.03883	SLV FO 9	-0.5858	-0.70296
1318	SLU 10	-0.85617	-1.02741	SLV FO 5	-0.58745	-0.70494
1319	SLU 10	-0.8586	-1.03032	SLV FO 5	-0.57923	-0.69507
1320	SLU 10	-0.81333	-0.97599	SLV FO 5	-0.56239	-0.67487
1321	SLU 10	-0.85096	-1.02115	SLV FO 5	-0.57556	-0.69067
1322	SLU 10	-0.86122	-1.03347	SLV FO 9	-0.5974	-0.71688
1323	SLU 10	-0.85541	-1.02649	SLV FO 9	-0.57994	-0.69593
1324	SLU 10	-0.85991	-1.03189	SLV FO 5	-0.59781	-0.71737
1325	SLU 10	-0.86497	-1.03796	SLV FO 9	-0.5801	-0.69611
1326	SLU 10	-0.80346	-0.96415	SLV FO 1	-0.52738	-0.63285
1327	SLU 10	-0.87638	-1.05166	SLV FO 5	-0.60024	-0.72029
1328	SLU 10	-0.85725	-1.0287	SLV FO 9	-0.57764	-0.69316
1329	SLU 10	-0.8721	-1.04652	SLV FO 9	-0.58736	-0.70483
1330	SLU 10	-0.87655	-1.05186	SLV FO 9	-0.57383	-0.68859
1331	SLU 10	-0.86554	-1.03865	SLV FO 5	-0.5926	-0.71112
1332	SLU 10	-0.81462	-0.97755	SLV FO 5	-0.55977	-0.67173
1333	SLU 10	-0.86384	-1.0366	SLV FO 5	-0.57981	-0.69577
1334	SLU 10	-0.86426	-1.03711	SLV FO 9	-0.58345	-0.70014
1335	SLU 10	-0.85972	-1.03167	SLV FO 5	-0.57757	-0.69309
1336	SLU 10	-0.86649	-1.03979	SLV FO 9	-0.59914	-0.71897
1337	SLU 10	-0.93687	-1.12424	SLV FO 13	-0.5619	-0.67428
1338	SLU 10	-0.8648	-1.03776	SLV FO 9	-0.58067	-0.69681
1339	SLU 10	-0.87651	-1.05181	SLV FO 9	-0.58733	-0.70479
1340	SLU 10	-0.88003	-1.05604	SLV FO 5	-0.5998	-0.71976
1341	SLU 10	-0.86754	-1.04105	SLV FO 9	-0.60064	-0.72077
1342	SLU 10	-0.81089	-0.97307	SLV FO 1	-0.54036	-0.64843
1343	SLU 10	-0.8732	-1.04784	SLV FO 9	-0.58232	-0.69879
1344	SLU 10	-0.89602	-1.07522	SLV FO 13	-0.57224	-0.68668
1345	SLU 10	-0.87477	-1.04973	SLV FO 5	-0.5966	-0.71592
1346	SLU 10	-0.88625	-1.0635	SLV FO 5	-0.58968	-0.70762
1347	SLU 10	-0.81595	-0.97915	SLV FO 5	-0.55632	-0.66758
1348	SLU 10	-0.87012	-1.04414	SLV FO 5	-0.58035	-0.69642
1349	SLU 10	-0.87251	-1.04701	SLV FO 9	-0.58572	-0.70286
1350	SLU 10	-0.8681	-1.04172	SLV FO 5	-0.5798	-0.69576
1351	SLU 10	-0.87097	-1.04516	SLV FO 9	-0.60032	-0.72039
1352	SLU 10	-0.88444	-1.06133	SLV FO 5	-0.58818	-0.70582
1353	SLU 10	-0.8847	-1.06164	SLV FO 9	-0.5877	-0.70525
1354	SLU 10	-0.91611	-1.09933	SLV FO 13	-0.56614	-0.67937
1355	SLU 10	-0.86803	-1.04164	SLV FO 5	-0.57791	-0.69349
1356	SLU 10	-0.87642	-1.0517	SLV FO 9	-0.58439	-0.70126
1357	SLU 10	-0.87912	-1.05494	SLV FO 9	-0.58259	-0.69911
1358	SLU 10	-0.87923	-1.05508	SLV FO 5	-0.58258	-0.69909
1359	SLU 10	-0.87947	-1.05537	SLV FO 5	-0.59664	-0.71597
1360	SLU 10	-0.87075	-1.0449	SLV FO 9	-0.5991	-0.71892
1361	SLU 10	-0.81454	-0.97745	SLV FO 5	-0.55047	-0.66056
1362	SLU 10	-0.9486	-1.13833	SLV FO 13	-0.55004	-0.66004
1364	SLU 10	-0.75882	-0.91058	SLV FO 1	-0.46316	-0.55579
1365	SLU 10	-0.82364	-0.98837	SLV FO 9	-0.5442	-0.65304
1366	SLU 10	-0.83949	-1.00739	SLV FO 5	-0.56001	-0.67201
1367	SLU 10	-0.83077	-0.99693	SLV FO 9	-0.55283	-0.66339
1368	SLU 10	-0.84377	-1.01253	SLV FO 9	-0.57889	-0.69467
1369	SLU 10	-0.81111	-0.97333	SLV FO 5	-0.55808	-0.6697
1370	SLU 10	-0.76882	-0.92259	SLV FO 1	-0.47894	-0.57473
1371	SLU 10	-0.82748	-0.99298	SLV FO 9	-0.5444	-0.65328
1372	SLU 10	-0.8245	-0.98939	SLV FO 9	-0.54596	-0.65515
1373	SLU 10	-0.83951	-1.00742	SLV FO 5	-0.55884	-0.67061
1374	SLU 10	-0.84224	-1.01068	SLV FO 5	-0.56232	-0.67478
1375	SLU 10	-0.83293	-0.99951	SLV FO 9	-0.55306	-0.66367
1376	SLU 10	-0.84696	-1.01635	SLV FO 5	-0.57895	-0.69474
1377	SLU 10	-0.8433	-1.01196	SLV FO 9	-0.57845	-0.69414
1378	SLU 10	-0.81855	-0.98225	SLV FO 5	-0.56334	-0.676
1379	SLU 10	-0.83305	-0.99966	SLV FO 5	-0.55986	-0.67183
1380	SLU 10	-0.83619	-1.00343	SLV FO 9	-0.54653	-0.65584
1381	SLU 10	-0.82938	-0.99526	SLV FO 9	-0.54937	-0.65925
1382	SLU 10	-0.83744	-1.00493	SLV FO 5	-0.56384	-0.67661
1383	SLU 10	-0.80627	-0.96753	SLV FO 5	-0.55388	-0.66466
1384	SLU 10	-0.83199	-0.99839	SLV FO 5	-0.55725	-0.6687
1385	SLU 10	-0.83208	-0.99849	SLV FO 9	-0.55408	-0.66489
1386	SLU 10	-0.82805	-0.99365	SLV FO 5	-0.56938	-0.68326
1387	SLU 10	-0.83827	-1.00593	SLV FO 9	-0.55471	-0.66565
1388	SLU 10	-0.85221	-1.02266	SLV FO 5	-0.57974	-0.69568
1389	SLU 10	-0.77883	-0.93459	SLV FO 1	-0.49406	-0.59287
1390	SLU 10	-0.84722	-1.01666	SLV FO 9	-0.56375	-0.6765
1391	SLU 10	-0.84202	-1.01042	SLV FO 5	-0.5586	-0.67032
1392	SLU 10	-0.84534	-1.01441	SLV FO 9	-0.57906	-0.69488
1393	SLU 10	-0.80418	-0.96502	SLV FO 5	-0.55083	-0.661
1394	SLU 10	-0.83458	-1.00149	SLV FO 5	-0.55638	-0.66766
1395	SLU 10	-0.83668	-1.00402	SLV FO 9	-0.55666	-0.66799
1396	SLU 10	-0.83712	-1.00455	SLV FO 9	-0.55377	-0.66452
1397	SLU 10	-0.84472	-1.01366	SLV FO 5	-0.56888	-0.68265
1398	SLU 10	-0.83888	-1.00666	SLV FO 5	-0.57593	-0.69112
1399	SLU 10	-0.78871	-0.94646	SLV FO 1	-0.50872	-0.61046

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
1400	SLU 10	-0.84629	-1.01555	SLV FO 9	-0.55765	-0.66918
1401	SLU 10	-0.84939	-1.01927	SLV FO 9	-0.54995	-0.65995
1402	SLU 10	-0.85863	-1.03035	SLV FO 5	-0.58101	-0.69721
1403	SLU 10	-0.85363	-1.02436	SLV FO 9	-0.56547	-0.67856
1404	SLU 10	-0.84061	-1.00873	SLV FO 5	-0.55709	-0.6685
1405	SLU 10	-0.84642	-1.0157	SLV FO 5	-0.55898	-0.67077
1406	SLU 10	-0.84948	-1.01938	SLV FO 9	-0.58053	-0.69663
1407	SLU 10	-0.80435	-0.96522	SLV FO 5	-0.54842	-0.6581
1408	SLU 10	-0.84395	-1.01274	SLV FO 9	-0.56007	-0.67209
1409	SLU 10	-0.84591	-1.01509	SLV FO 9	-0.55804	-0.66964
1410	SLU 10	-0.84938	-1.01925	SLV FO 5	-0.58189	-0.69827
1411	SLU 10	-0.79777	-0.95732	SLV FO 1	-0.52267	-0.62721
1412	SLU 10	-0.85576	-1.02691	SLV FO 9	-0.56115	-0.67338
1413	SLU 10	-0.86043	-1.03252	SLV FO 9	-0.56728	-0.68073
1414	SLU 10	-0.85377	-1.02452	SLV FO 5	-0.57383	-0.6886
1415	SLU 10	-0.86654	-1.03984	SLV FO 9	-0.55429	-0.66515
1416	SLU 10	-0.86469	-1.03763	SLV FO 5	-0.58194	-0.69833
1417	SLU 10	-0.80615	-0.96738	SLV FO 5	-0.54633	-0.6556
1418	SLU 10	-0.85487	-1.02584	SLV FO 9	-0.58253	-0.69903
1419	SLU 10	-0.84951	-1.01941	SLV FO 5	-0.55895	-0.67073
1420	SLU 10	-0.85262	-1.02314	SLV FO 9	-0.56341	-0.67609
1421	SLU 10	-0.85171	-1.02205	SLV FO 5	-0.55959	-0.67151
1422	SLU 10	-0.92787	-1.11344	SLV FO 13	-0.55387	-0.66465
1423	SLU 10	-0.86474	-1.03769	SLV FO 9	-0.56703	-0.68043
1424	SLU 10	-0.86846	-1.04215	SLV FO 5	-0.58146	-0.69775
1425	SLU 10	-0.85665	-1.02798	SLV FO 9	-0.58372	-0.70046
1426	SLU 10	-0.80421	-0.96505	SLV FO 1	-0.53479	-0.64174
1427	SLU 10	-0.86398	-1.03677	SLV FO 9	-0.56304	-0.67564
1428	SLU 10	-0.85296	-1.02355	SLV FO 5	-0.56009	-0.67211
1429	SLU 10	-0.8863	-1.06356	SLV FO 9	-0.55847	-0.67017
1430	SLU 10	-0.86276	-1.03532	SLV FO 5	-0.57767	-0.6932
1431	SLU 10	-0.80793	-0.96951	SLV FO 5	-0.5433	-0.65196
1432	SLU 10	-0.86074	-1.03288	SLV FO 9	-0.56553	-0.67864
1433	SLU 10	-0.85938	-1.03125	SLV FO 9	-0.58367	-0.70041
1434	SLU 10	-0.86008	-1.0321	SLV FO 5	-0.56137	-0.67364
1435	SLU 10	-0.85603	-1.02724	SLV FO 5	-0.55958	-0.6715
1436	SLU 10	-0.87665	-1.05197	SLV FO 5	-0.56983	-0.6838
1437	SLU 10	-0.87475	-1.0497	SLV FO 5	-0.56801	-0.68161
1438	SLU 10	-0.87533	-1.05039	SLV FO 9	-0.5684	-0.68208
1439	SLU 10	-0.90575	-1.0869	SLV FO 13	-0.55639	-0.66767
1440	SLU 10	-0.85496	-1.02595	SLV FO 5	-0.5564	-0.66768
1441	SLU 10	-0.86354	-1.03625	SLV FO 9	-0.5631	-0.67572
1442	SLU 10	-0.86885	-1.04262	SLV FO 9	-0.56223	-0.67467
1443	SLU 10	-0.86898	-1.04278	SLV FO 5	-0.56238	-0.67485
1444	SLU 10	-0.86664	-1.03997	SLV FO 5	-0.57717	-0.6926
1445	SLU 10	-0.85843	-1.03012	SLV FO 9	-0.58149	-0.69779
1446	SLU 10	-0.80641	-0.96769	SLV FO 5	-0.53728	-0.64473
1447	SLU 10	-0.93404	-1.12085	SLV FO 13	-0.54034	-0.64841
1449	SLU 10	-0.75619	-0.90743	SLV FO 1	-0.46012	-0.55215
1450	SLU 10	-0.80907	-0.97089	SLV FO 9	-0.52364	-0.62836
1451	SLU 10	-0.82366	-0.9884	SLV FO 5	-0.53813	-0.64576
1452	SLU 10	-0.81669	-0.98003	SLV FO 9	-0.53218	-0.63861
1453	SLU 10	-0.82838	-0.99406	SLV FO 9	-0.55953	-0.67143
1454	SLU 10	-0.7983	-0.95796	SLV FO 5	-0.54204	-0.65045
1455	SLU 10	-0.76473	-0.91767	SLV FO 1	-0.47517	-0.5702
1456	SLU 10	-0.81316	-0.9758	SLV FO 9	-0.52388	-0.62866
1457	SLU 10	-0.80955	-0.97146	SLV FO 9	-0.52523	-0.63028
1458	SLU 10	-0.82363	-0.98836	SLV FO 5	-0.53704	-0.64444
1459	SLU 10	-0.82632	-0.99159	SLV FO 5	-0.54031	-0.64837
1460	SLU 10	-0.81779	-0.98135	SLV FO 9	-0.53339	-0.64007
1461	SLU 10	-0.81904	-0.98285	SLV FO 9	-0.53253	-0.63904
1462	SLU 10	-0.83137	-0.99764	SLV FO 5	-0.55963	-0.67156
1463	SLU 10	-0.82797	-0.99356	SLV FO 9	-0.55938	-0.67126
1464	SLU 10	-0.80517	-0.96621	SLV FO 5	-0.54686	-0.65624
1465	SLU 10	-0.79404	-0.95285	SLV FO 5	-0.53836	-0.64603
1466	SLU 10	-0.81808	-0.9817	SLV FO 5	-0.53756	-0.64507
1467	SLU 10	-0.81873	-0.98248	SLV FO 5	-0.53987	-0.64784
1468	SLU 10	-0.77334	-0.92801	SLV FO 1	-0.48967	-0.5876
1469	SLU 10	-0.82203	-0.98643	SLV FO 9	-0.52597	-0.63117
1470	SLU 10	-0.81397	-0.97677	SLV FO 9	-0.52841	-0.63409
1471	SLU 10	-0.82611	-0.99133	SLV FO 5	-0.53703	-0.64444
1472	SLU 10	-0.83128	-0.99754	SLV FO 9	-0.5423	-0.65076
1473	SLU 10	-0.82464	-0.98957	SLV FO 9	-0.53443	-0.64131
1474	SLU 10	-0.83008	-0.99609	SLV FO 9	-0.56039	-0.67247
1475	SLU 10	-0.81422	-0.97706	SLV FO 5	-0.55261	-0.66314
1476	SLU 10	-0.82089	-0.98507	SLV FO 5	-0.5369	-0.64428
1477	SLU 10	-0.82269	-0.98723	SLV FO 5	-0.54367	-0.6524
1478	SLU 10	-0.83634	-1.00361	SLV FO 5	-0.56022	-0.67227
1479	SLU 10	-0.79228	-0.95074	SLV FO 5	-0.5356	-0.64272
1480	SLU 10	-0.82194	-0.98633	SLV FO 9	-0.53572	-0.64286
1481	SLU 10	-0.82122	-0.98546	SLV FO 9	-0.53261	-0.63913
1482	SLU 10	-0.82939	-0.99527	SLV FO 5	-0.54851	-0.65821
1483	SLU 10	-0.8342	-1.00104	SLV FO 9	-0.56232	-0.67478
1484	SLU 10	-0.82694	-0.99233	SLV FO 5	-0.53779	-0.64534
1485	SLU 10	-0.82426	-0.98911	SLV FO 5	-0.55856	-0.67027
1486	SLU 10	-0.83749	-1.00499	SLV FO 9	-0.54411	-0.65293
1487	SLU 10	-0.8326	-0.99912	SLV FO 9	-0.53729	-0.64475
1488	SLU 10	-0.79292	-0.9515	SLV FO 5	-0.53381	-0.64057
1489	SLU 10	-0.78165	-0.93798	SLV FO 1	-0.50346	-0.60415
1490	SLU 10	-0.83522	-1.00226	SLV FO 9	-0.52934	-0.6352
1491	SLU 10	-0.83024	-0.99629	SLV FO 5	-0.53754	-0.64505
1492	SLU 10	-0.84245	-1.01094	SLV FO 5	-0.56133	-0.6736
1493	SLU 10	-0.82865	-0.99438	SLV FO 9	-0.53894	-0.64673
1494	SLU 10	-0.8296	-0.99552	SLV FO 9	-0.53696	-0.64435
1495	SLU 10	-0.83777	-1.00533	SLV FO 5	-0.55365	-0.66438
1496	SLU 10	-0.83932	-1.00718	SLV FO 9	-0.56459	-0.6775
1497	SLU 10	-0.83437	-1.00124	SLV FO 9	-0.56388	-0.67665
1498	SLU 10	-0.83558	-1.0027	SLV FO 5	-0.53986	-0.64783

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
1499	SLU 10	-0.84868	-1.01842	SLV FO 5	-0.56264	-0.67517
1500	SLU 10	-0.79495	-0.95394	SLV FO 5	-0.53222	-0.63866
1501	SLU 10	-0.78927	-0.94712	SLV FO 1	-0.51664	-0.61997
1502	SLU 10	-0.84191	-1.0103	SLV FO 9	-0.54074	-0.64889
1503	SLU 10	-0.83678	-1.00414	SLV FO 9	-0.54244	-0.65093
1504	SLU 10	-0.85237	-1.02284	SLV FO 9	-0.53392	-0.6407
1505	SLU 10	-0.84367	-1.0124	SLV FO 9	-0.54567	-0.6548
1506	SLU 10	-0.83515	-1.00218	SLV FO 5	-0.53836	-0.64603
1507	SLU 10	-0.91356	-1.09627	SLV FO 13	-0.54403	-0.65283
1508	SLU 10	-0.84452	-1.01343	SLV FO 9	-0.54526	-0.65432
1509	SLU 10	-0.84604	-1.01525	SLV FO 5	-0.55803	-0.66963
1510	SLU 10	-0.85243	-1.02291	SLV FO 5	-0.56269	-0.67523
1511	SLU 10	-0.8437	-1.01244	SLV FO 9	-0.56635	-0.67962
1512	SLU 10	-0.84186	-1.01023	SLV FO 9	-0.56646	-0.67975
1513	SLU 10	-0.7972	-0.95664	SLV FO 5	-0.53032	-0.63638
1514	SLU 10	-0.85121	-1.02145	SLV FO 9	-0.54431	-0.65317
1515	SLU 10	-0.8456	-1.01472	SLV FO 5	-0.54259	-0.6511
1516	SLU 10	-0.83659	-1.00391	SLV FO 5	-0.53919	-0.64703
1517	SLU 10	-0.87219	-1.04663	SLV FO 9	-0.53898	-0.64677
1518	SLU 10	-0.79494	-0.95393	SLV FO 5	-0.52426	-0.62912
1519	SLU 10	-0.83932	-1.00718	SLV FO 5	-0.5391	-0.64692
1520	SLU 10	-0.86214	-1.03457	SLV FO 9	-0.54982	-0.65978
1521	SLU 10	-0.84802	-1.01763	SLV FO 9	-0.54632	-0.65559
1522	SLU 10	-0.86221	-1.03465	SLV FO 5	-0.54962	-0.65954
1523	SLU 10	-0.89278	-1.07134	SLV FO 9	-0.54424	-0.65308
1524	SLU 10	-0.85994	-1.03193	SLV FO 5	-0.54796	-0.65755
1525	SLU 10	-0.8511	-1.02132	SLV FO 5	-0.56037	-0.67244
1526	SLU 10	-0.8445	-1.01341	SLV FO 9	-0.56643	-0.67972
1527	SLU 10	-0.8399	-1.00787	SLV FO 5	-0.53881	-0.64657
1528	SLU 10	-0.84832	-1.01799	SLV FO 9	-0.54565	-0.65478
1529	SLU 10	-0.7973	-0.95676	SLV FO 5	-0.52703	-0.63244
1530	SLU 10	-0.8574	-1.02888	SLV FO 9	-0.54633	-0.65559
1531	SLU 10	-0.85432	-1.02518	SLV FO 5	-0.54486	-0.65383
1532	SLU 10	-0.91331	-1.09597	SLV FO 13	-0.52781	-0.63338
1534	SLU 10	-0.75316	-0.9038	SLV FO 1	-0.4569	-0.54828
1535	SLU 10	-0.7914	-0.94968	SLV FO 9	-0.50211	-0.60253
1536	SLU 10	-0.80465	-0.96558	SLV FO 5	-0.51523	-0.61828
1537	SLU 10	-0.7996	-0.95953	SLV FO 9	-0.51057	-0.61268
1538	SLU 10	-0.80991	-0.97189	SLV FO 9	-0.53897	-0.64677
1539	SLU 10	-0.78302	-0.93962	SLV FO 5	-0.52506	-0.63008
1540	SLU 10	-0.75984	-0.91181	SLV FO 1	-0.471	-0.5652
1541	SLU 10	-0.79571	-0.95485	SLV FO 9	-0.5024	-0.60288
1542	SLU 10	-0.79137	-0.94965	SLV FO 9	-0.5035	-0.6042
1543	SLU 10	-0.80451	-0.96541	SLV FO 5	-0.51418	-0.61702
1544	SLU 10	-0.80711	-0.96853	SLV FO 5	-0.51721	-0.62065
1545	SLU 10	-0.80032	-0.96039	SLV FO 9	-0.51153	-0.61383
1546	SLU 10	-0.80204	-0.96245	SLV FO 9	-0.51102	-0.61322
1547	SLU 10	-0.81252	-0.97503	SLV FO 5	-0.53906	-0.64687
1548	SLU 10	-0.80957	-0.97148	SLV FO 9	-0.53906	-0.64688
1549	SLU 10	-0.78907	-0.94689	SLV FO 5	-0.52933	-0.63519
1550	SLU 10	-0.77934	-0.93521	SLV FO 5	-0.52182	-0.62618
1551	SLU 10	-0.80106	-0.96127	SLV FO 5	-0.51666	-0.61999
1552	SLU 10	-0.80138	-0.96166	SLV FO 5	-0.51883	-0.62259
1553	SLU 10	-0.8045	-0.9654	SLV FO 9	-0.5044	-0.60528
1554	SLU 10	-0.79501	-0.95402	SLV FO 9	-0.50633	-0.6076
1555	SLU 10	-0.80656	-0.96787	SLV FO 5	-0.51409	-0.61691
1556	SLU 10	-0.81157	-0.97388	SLV FO 9	-0.51951	-0.62341
1557	SLU 10	-0.80395	-0.96474	SLV FO 9	-0.51371	-0.61645
1558	SLU 10	-0.80746	-0.96896	SLV FO 9	-0.51287	-0.61544
1559	SLU 10	-0.81702	-0.98042	SLV FO 5	-0.53946	-0.64735
1560	SLU 10	-0.81144	-0.97373	SLV FO 9	-0.54017	-0.6482
1561	SLU 10	-0.79706	-0.95648	SLV FO 5	-0.5344	-0.64128
1562	SLU 10	-0.77808	-0.9337	SLV FO 5	-0.51957	-0.62348
1563	SLU 10	-0.76649	-0.91979	SLV FO 1	-0.4845	-0.58141
1564	SLU 10	-0.80391	-0.9647	SLV FO 5	-0.51602	-0.61923
1565	SLU 10	-0.80472	-0.96566	SLV FO 5	-0.52235	-0.62682
1566	SLU 10	-0.80125	-0.9615	SLV FO 9	-0.51015	-0.61218
1567	SLU 10	-0.81023	-0.97228	SLV FO 5	-0.51476	-0.61771
1568	SLU 10	-0.81724	-0.98069	SLV FO 9	-0.52135	-0.62562
1569	SLU 10	-0.80981	-0.97178	SLV FO 9	-0.51669	-0.62003
1570	SLU 10	-0.8105	-0.9726	SLV FO 5	-0.52683	-0.6322
1571	SLU 10	-0.81505	-0.97806	SLV FO 9	-0.54207	-0.65049
1572	SLU 10	-0.8061	-0.96732	SLV FO 9	-0.5398	-0.64776
1573	SLU 10	-0.77887	-0.93465	SLV FO 5	-0.51808	-0.6217
1574	SLU 10	-0.80969	-0.97163	SLV FO 5	-0.51684	-0.6202
1575	SLU 10	-0.82228	-0.98673	SLV FO 5	-0.54018	-0.64822
1576	SLU 10	-0.815	-0.97801	SLV FO 9	-0.51564	-0.61877
1577	SLU 10	-0.81739	-0.98087	SLV FO 9	-0.50769	-0.60923
1578	SLU 10	-0.7728	-0.92737	SLV FO 1	-0.49728	-0.59674
1579	SLU 10	-0.8085	-0.9702	SLV FO 9	-0.51422	-0.61706
1580	SLU 10	-0.81445	-0.97733	SLV FO 5	-0.51576	-0.61891
1581	SLU 10	-0.81673	-0.98007	SLV FO 9	-0.51983	-0.62379
1582	SLU 10	-0.81766	-0.98119	SLV FO 5	-0.53165	-0.63798
1583	SLU 10	-0.8194	-0.98328	SLV FO 9	-0.54429	-0.65315
1584	SLU 10	-0.81475	-0.9777	SLV FO 9	-0.54383	-0.65259
1585	SLU 10	-0.78096	-0.93715	SLV FO 5	-0.51694	-0.62033
1586	SLU 10	-0.8177	-0.98124	SLV FO 5	-0.51882	-0.62259
1587	SLU 10	-0.8273	-0.99276	SLV FO 5	-0.54093	-0.64911
1588	SLU 10	-0.82389	-0.98867	SLV FO 9	-0.51919	-0.62303
1589	SLU 10	-0.82255	-0.98706	SLV FO 9	-0.52286	-0.62743
1590	SLU 10	-0.834	-1.0008	SLV FO 9	-0.51229	-0.61475
1591	SLU 10	-0.77842	-0.93411	SLV FO 5	-0.50753	-0.60904
1592	SLU 10	-0.89321	-1.07185	SLV FO 9	-0.52957	-0.63548
1593	SLU 10	-0.85317	-1.0238	SLV FO 9	-0.51773	-0.62127
1594	SLU 10	-0.81756	-0.98107	SLV FO 5	-0.51649	-0.61979
1595	SLU 10	-0.82294	-0.98752	SLV FO 9	-0.52233	-0.6268
1596	SLU 10	-0.82454	-0.98945	SLV FO 5	-0.53595	-0.64314
1597	SLU 10	-0.83022	-0.99626	SLV FO 5	-0.54086	-0.64903

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
1598	SLU 10	-0.82293	-0.98752	SLV FO 9	-0.54611	-0.65533
1599	SLU 10	-0.82115	-0.98538	SLV FO 9	-0.54614	-0.65537
1600	SLU 10	-0.78313	-0.93975	SLV FO 5	-0.51559	-0.61871
1601	SLU 10	-0.82668	-0.99202	SLV FO 5	-0.52151	-0.62582
1602	SLU 10	-0.83229	-0.99874	SLV FO 9	-0.52265	-0.62718
1603	SLU 10	-0.81438	-0.97726	SLV FO 5	-0.51574	-0.61889
1604	SLU 10	-0.82611	-0.99133	SLV FO 9	-0.52372	-0.62847
1605	SLU 10	-0.78237	-0.93885	SLV FO 5	-0.51098	-0.61318
1606	SLU 10	-0.87299	-1.04759	SLV FO 9	-0.52325	-0.6279
1607	SLU 10	-0.84224	-1.01069	SLV FO 9	-0.52744	-0.63292
1608	SLU 10	-0.82883	-0.99459	SLV FO 5	-0.53877	-0.64653
1609	SLU 10	-0.8235	-0.9882	SLV FO 9	-0.54653	-0.65584
1610	SLU 10	-0.81738	-0.98086	SLV FO 5	-0.51613	-0.61936
1611	SLU 10	-0.82605	-0.99126	SLV FO 9	-0.52327	-0.62793
1612	SLU 10	-0.7837	-0.94043	SLV FO 5	-0.5134	-0.61608
1613	SLU 10	-0.83844	-1.00612	SLV FO 9	-0.52531	-0.63037
1614	SLU 10	-0.84245	-1.01095	SLV FO 5	-0.52747	-0.63296
1615	SLU 10	-0.83434	-1.00121	SLV FO 5	-0.52376	-0.62852
1616	SLU 10	-0.8398	-1.00776	SLV FO 5	-0.52603	-0.63123
1617	SLU 10	-0.88829	-1.06595	SLV FO 9	-0.51169	-0.61402
1619	SLU 10	-0.7498	-0.89976	SLV FO 1	-0.45349	-0.54419
1620	SLU 10	-0.77105	-0.92526	SLV FO 9	-0.47975	-0.5757
1621	SLU 10	-0.783	-0.93959	SLV FO 5	-0.49149	-0.58978
1622	SLU 10	-0.77993	-0.93592	SLV FO 9	-0.48813	-0.58575
1623	SLU 10	-0.7889	-0.94668	SLV FO 9	-0.51741	-0.62089
1624	SLU 10	-0.76572	-0.91886	SLV FO 5	-0.50734	-0.60881
1625	SLU 10	-0.77552	-0.93063	SLV FO 9	-0.48008	-0.5761
1626	SLU 10	-0.77047	-0.92456	SLV FO 9	-0.48091	-0.57709
1627	SLU 10	-0.7827	-0.93924	SLV FO 5	-0.49045	-0.58854
1628	SLU 10	-0.78519	-0.94223	SLV FO 5	-0.49326	-0.59192
1629	SLU 10	-0.78024	-0.93629	SLV FO 9	-0.48884	-0.58661
1630	SLU 10	-0.78239	-0.93886	SLV FO 9	-0.48864	-0.58637
1631	SLU 10	-0.79104	-0.94925	SLV FO 5	-0.51747	-0.62096
1632	SLU 10	-0.78863	-0.94635	SLV FO 9	-0.51772	-0.62127
1633	SLU 10	-0.77078	-0.92494	SLV FO 5	-0.51095	-0.61314
1634	SLU 10	-0.76272	-0.91527	SLV FO 5	-0.50459	-0.60551
1635	SLU 10	-0.75437	-0.90524	SLV FO 1	-0.4665	-0.5598
1636	SLU 10	-0.78145	-0.93774	SLV FO 5	-0.49489	-0.59386
1637	SLU 10	-0.78144	-0.93773	SLV FO 5	-0.49689	-0.59627
1638	SLU 10	-0.7841	-0.94092	SLV FO 9	-0.48195	-0.57834
1639	SLU 10	-0.77317	-0.92781	SLV FO 9	-0.48334	-0.58001
1640	SLU 10	-0.78419	-0.94102	SLV FO 5	-0.4902	-0.58824
1641	SLU 10	-0.78899	-0.94679	SLV FO 5	-0.49555	-0.59466
1642	SLU 10	-0.78307	-0.93969	SLV FO 9	-0.49061	-0.58873
1643	SLU 10	-0.78743	-0.94492	SLV FO 9	-0.49037	-0.58844
1644	SLU 10	-0.78424	-0.94109	SLV FO 5	-0.49422	-0.59307
1645	SLU 10	-0.78407	-0.94089	SLV FO 5	-0.50009	-0.60011
1646	SLU 10	-0.79468	-0.95362	SLV FO 5	-0.51744	-0.62092
1647	SLU 10	-0.79019	-0.94822	SLV FO 9	-0.51885	-0.62262
1648	SLU 10	-0.77747	-0.93297	SLV FO 5	-0.51521	-0.61826
1649	SLU 10	-0.76186	-0.91423	SLV FO 5	-0.50272	-0.60326
1650	SLU 10	-0.75875	-0.91051	SLV FO 1	-0.47881	-0.57457
1651	SLU 10	-0.79657	-0.95588	SLV FO 9	-0.48522	-0.58227
1652	SLU 10	-0.77815	-0.93378	SLV FO 9	-0.48663	-0.58395
1653	SLU 10	-0.78692	-0.94431	SLV FO 5	-0.49058	-0.58869
1654	SLU 10	-0.79367	-0.9524	SLV FO 9	-0.49732	-0.59678
1655	SLU 10	-0.78777	-0.94533	SLV FO 9	-0.49308	-0.59169
1656	SLU 10	-0.79445	-0.95334	SLV FO 9	-0.49308	-0.5917
1657	SLU 10	-0.78955	-0.94746	SLV FO 5	-0.49487	-0.59384
1658	SLU 10	-0.78877	-0.94652	SLV FO 5	-0.50413	-0.60495
1659	SLU 10	-0.79901	-0.95881	SLV FO 5	-0.51778	-0.62133
1660	SLU 10	-0.79311	-0.95173	SLV FO 9	-0.5206	-0.62472
1661	SLU 10	-0.78496	-0.94195	SLV FO 9	-0.51912	-0.62294
1662	SLU 10	-0.7628	-0.91537	SLV FO 5	-0.50155	-0.60186
1663	SLU 10	-0.76284	-0.91541	SLV FO 1	-0.49044	-0.58852
1664	SLU 10	-0.81227	-0.97473	SLV FO 9	-0.48958	-0.5875
1665	SLU 10	-0.78396	-0.94075	SLV FO 5	-0.48963	-0.58756
1666	SLU 10	-0.78993	-0.94792	SLV FO 5	-0.49123	-0.58948
1667	SLU 10	-0.79805	-0.95766	SLV FO 9	-0.49872	-0.59846
1668	SLU 10	-0.79325	-0.9519	SLV FO 9	-0.49572	-0.59486
1669	SLU 10	-0.79452	-0.95343	SLV FO 5	-0.50845	-0.61014
1670	SLU 10	-0.80278	-0.96333	SLV FO 5	-0.51794	-0.62153
1671	SLU 10	-0.79649	-0.95579	SLV FO 9	-0.52257	-0.62708
1672	SLU 10	-0.79199	-0.95039	SLV FO 9	-0.52202	-0.62643
1673	SLU 10	-0.76488	-0.91786	SLV FO 5	-0.50076	-0.60091
1674	SLU 10	-0.76621	-0.91945	SLV FO 5	-0.49442	-0.5933
1675	SLU 10	-0.80238	-0.96286	SLV FO 9	-0.49635	-0.59562
1676	SLU 10	-0.79669	-0.95602	SLV FO 5	-0.49657	-0.59588
1677	SLU 10	-0.86873	-1.04247	SLV FO 9	-0.50583	-0.60699
1678	SLU 10	-0.83018	-0.99622	SLV FO 9	-0.49463	-0.59355
1679	SLU 10	-0.78892	-0.94671	SLV FO 5	-0.49092	-0.58911
1680	SLU 10	-0.79191	-0.95029	SLV FO 5	-0.49169	-0.59003
1681	SLU 10	-0.80076	-0.96091	SLV FO 9	-0.49946	-0.59935
1682	SLU 10	-0.79804	-0.95765	SLV FO 9	-0.4979	-0.59748
1683	SLU 10	-0.79995	-0.95994	SLV FO 5	-0.5124	-0.61488
1684	SLU 10	-0.80459	-0.96551	SLV FO 5	-0.51728	-0.62074
1685	SLU 10	-0.79905	-0.95886	SLV FO 9	-0.52415	-0.62898
1686	SLU 10	-0.79716	-0.95659	SLV FO 9	-0.52414	-0.62897
1687	SLU 10	-0.7671	-0.92053	SLV FO 5	-0.49992	-0.5999
1688	SLU 10	-0.76821	-0.92185	SLV FO 5	-0.4969	-0.59628
1689	SLU 10	-0.80451	-0.96541	SLV FO 5	-0.4989	-0.59868
1690	SLU 10	-0.84922	-1.01906	SLV FO 9	-0.50006	-0.60008
1691	SLU 10	-0.79169	-0.95003	SLV FO 5	-0.4916	-0.58993
1692	SLU 10	-0.80077	-0.96092	SLV FO 9	-0.49917	-0.59901
1693	SLU 10	-0.7995	-0.9594	SLV FO 9	-0.52477	-0.62973
1694	SLU 10	-0.76844	-0.92212	SLV FO 5	-0.49868	-0.59842
1695	SLU 10	-0.80958	-0.9715	SLV FO 9	-0.49934	-0.5992
1696	SLU 10	-0.80341	-0.96409	SLV FO 5	-0.51525	-0.6183

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
1697	SLU 10	-0.81538	-0.97846	SLV FO 9	-0.50205	-0.60246
1698	SLU 10	-0.8187	-0.98244	SLV FO 9	-0.50378	-0.60454
1699	SLU 10	-0.8114	-0.97368	SLV FO 5	-0.50106	-0.60128
1700	SLU 10	-0.81903	-0.98283	SLV FO 5	-0.50403	-0.60484
1701	SLU 10	-0.81643	-0.97972	SLV FO 5	-0.50292	-0.6035
1702	SLU 10	-0.86123	-1.03347	SLV FO 9	-0.48685	-0.58422
1704	SLU 10	-0.7461	-0.89532	SLV FO 1	-0.44988	-0.53986
1705	SLU 10	-0.74863	-0.89835	SLV FO 9	-0.45672	-0.54806
1706	SLU 10	-0.7594	-0.91128	SLV FO 5	-0.46712	-0.56054
1707	SLU 10	-0.75828	-0.90994	SLV FO 9	-0.46503	-0.55804
1708	SLU 10	-0.76604	-0.91925	SLV FO 9	-0.49512	-0.59415
1709	SLU 10	-0.74697	-0.89636	SLV FO 5	-0.48908	-0.5869
1710	SLU 10	-0.75322	-0.90387	SLV FO 9	-0.4571	-0.54852
1711	SLU 10	-0.74753	-0.89704	SLV FO 9	-0.45766	-0.54919
1712	SLU 10	-0.75894	-0.91073	SLV FO 5	-0.46608	-0.55929
1713	SLU 10	-0.76135	-0.91362	SLV FO 5	-0.46873	-0.56247
1714	SLU 10	-0.75821	-0.90985	SLV FO 9	-0.46552	-0.55863
1715	SLU 10	-0.76072	-0.91286	SLV FO 9	-0.46558	-0.5587
1716	SLU 10	-0.75985	-0.91182	SLV FO 5	-0.47241	-0.56689
1717	SLU 10	-0.75956	-0.91147	SLV FO 5	-0.47429	-0.56914
1718	SLU 10	-0.76772	-0.92126	SLV FO 5	-0.49515	-0.59419
1719	SLU 10	-0.76585	-0.91902	SLV FO 9	-0.49563	-0.59476
1720	SLU 10	-0.75099	-0.90118	SLV FO 5	-0.492	-0.5904
1721	SLU 10	-0.74473	-0.89367	SLV FO 5	-0.48689	-0.58426
1722	SLU 10	-0.74847	-0.89816	SLV FO 1	-0.46172	-0.55406
1723	SLU 10	-0.76152	-0.91383	SLV FO 9	-0.45884	-0.55061
1724	SLU 10	-0.74935	-0.89922	SLV FO 9	-0.4597	-0.55164
1725	SLU 10	-0.75987	-0.91185	SLV FO 5	-0.46565	-0.55878
1726	SLU 10	-0.76452	-0.91743	SLV FO 5	-0.47071	-0.56486
1727	SLU 10	-0.76027	-0.91232	SLV FO 9	-0.46691	-0.56029
1728	SLU 10	-0.76534	-0.91841	SLV FO 9	-0.46717	-0.5606
1729	SLU 10	-0.76254	-0.91504	SLV FO 5	-0.4717	-0.56605
1730	SLU 10	-0.76151	-0.91381	SLV FO 5	-0.47718	-0.57262
1731	SLU 10	-0.77054	-0.92464	SLV FO 5	-0.4947	-0.59364
1732	SLU 10	-0.76711	-0.92054	SLV FO 9	-0.49677	-0.59612
1733	SLU 10	-0.75636	-0.90763	SLV FO 9	-0.4953	-0.59436
1734	SLU 10	-0.74435	-0.89322	SLV FO 5	-0.48545	-0.58254
1735	SLU 10	-0.75052	-0.90063	SLV FO 1	-0.47276	-0.56731
1736	SLU 10	-0.77335	-0.92802	SLV FO 9	-0.46186	-0.55423
1737	SLU 10	-0.75314	-0.90377	SLV FO 9	-0.46247	-0.55496
1738	SLU 10	-0.76171	-0.91406	SLV FO 5	-0.4657	-0.55884
1739	SLU 10	-0.76827	-0.92193	SLV FO 9	-0.47263	-0.56716
1740	SLU 10	-0.76386	-0.91664	SLV FO 9	-0.46889	-0.56267
1741	SLU 10	-0.7716	-0.92592	SLV FO 9	-0.46958	-0.5635
1742	SLU 10	-0.76735	-0.92082	SLV FO 5	-0.47213	-0.56656
1743	SLU 10	-0.76518	-0.91822	SLV FO 5	-0.48079	-0.57695
1744	SLU 10	-0.77379	-0.92854	SLV FO 5	-0.49448	-0.59338
1745	SLU 10	-0.76941	-0.92329	SLV FO 9	-0.49836	-0.59803
1746	SLU 10	-0.76232	-0.91479	SLV FO 9	-0.49794	-0.59753
1747	SLU 10	-0.74557	-0.89468	SLV FO 5	-0.48465	-0.58158
1748	SLU 10	-0.75223	-0.90267	SLV FO 5	-0.47896	-0.57475
1749	SLU 10	-0.78814	-0.94577	SLV FO 9	-0.46591	-0.55909
1750	SLU 10	-0.75769	-0.90923	SLV FO 5	-0.46406	-0.55687
1751	SLU 10	-0.76366	-0.91639	SLV FO 5	-0.46596	-0.55916
1752	SLU 10	-0.77167	-0.926	SLV FO 9	-0.47371	-0.56846
1753	SLU 10	-0.76804	-0.92165	SLV FO 9	-0.47102	-0.56523
1754	SLU 10	-0.77856	-0.93427	SLV FO 9	-0.47247	-0.56697
1755	SLU 10	-0.77364	-0.92837	SLV FO 5	-0.47348	-0.56818
1756	SLU 10	-0.76968	-0.92362	SLV FO 5	-0.48464	-0.58157
1757	SLU 10	-0.7765	-0.9318	SLV FO 5	-0.49409	-0.59291
1758	SLU 10	-0.77196	-0.92635	SLV FO 9	-0.50007	-0.60008
1759	SLU 10	-0.76787	-0.92144	SLV FO 9	-0.49999	-0.59999
1760	SLU 10	-0.74783	-0.89739	SLV FO 5	-0.48423	-0.58108
1761	SLU 10	-0.75333	-0.90399	SLV FO 5	-0.48088	-0.57706
1762	SLU 10	-0.84218	-1.01061	SLV FO 9	-0.48133	-0.5776
1763	SLU 10	-0.80508	-0.9661	SLV FO 9	-0.47068	-0.56482
1764	SLU 10	-0.7617	-0.91404	SLV FO 5	-0.46512	-0.55815
1765	SLU 10	-0.76474	-0.91768	SLV FO 5	-0.4661	-0.55932
1766	SLU 10	-0.77372	-0.92846	SLV FO 9	-0.47423	-0.56908
1767	SLU 10	-0.77167	-0.926	SLV FO 9	-0.47283	-0.5674
1768	SLU 10	-0.77391	-0.92869	SLV FO 5	-0.48823	-0.58588
1769	SLU 10	-0.77769	-0.93323	SLV FO 5	-0.49306	-0.59167
1770	SLU 10	-0.77378	-0.92854	SLV FO 9	-0.50143	-0.60171
1771	SLU 10	-0.77197	-0.92636	SLV FO 9	-0.50155	-0.60186
1772	SLU 10	-0.75036	-0.90043	SLV FO 5	-0.48388	-0.58066
1773	SLU 10	-0.75346	-0.90415	SLV FO 5	-0.48235	-0.57882
1774	SLU 10	-0.78513	-0.94216	SLV FO 9	-0.47537	-0.57044
1775	SLU 10	-0.78046	-0.93655	SLV FO 5	-0.47538	-0.57046
1776	SLU 10	-0.82332	-0.98798	SLV FO 9	-0.47588	-0.57106
1777	SLU 10	-0.76417	-0.917	SLV FO 5	-0.46584	-0.55901
1778	SLU 10	-0.77374	-0.92848	SLV FO 9	-0.47395	-0.56874
1779	SLU 10	-0.7768	-0.93216	SLV FO 5	-0.49111	-0.58933
1780	SLU 10	-0.77395	-0.92874	SLV FO 9	-0.50201	-0.60241
1781	SLU 10	-0.75241	-0.90289	SLV FO 5	-0.48332	-0.57998
1782	SLU 10	-0.79028	-0.94834	SLV FO 9	-0.47781	-0.57338
1783	SLU 10	-0.79345	-0.95214	SLV FO 5	-0.47964	-0.57556
1784	SLU 10	-0.79306	-0.95167	SLV FO 9	-0.47921	-0.57505
1785	SLU 10	-0.78651	-0.94381	SLV FO 5	-0.47719	-0.57263
1786	SLU 10	-0.79109	-0.94931	SLV FO 5	-0.47879	-0.57454
1787	SLU 10	-0.83357	-1.00028	SLV FO 9	-0.46193	-0.55432
1788	SLU 10	-0.72947	-0.87536	SLV FO 9	-0.43363	-0.52035
1789	SLU 10	-0.72479	-0.86974	SLV FO 9	-0.43321	-0.51985
1790	SLU 10	-0.72327	-0.86792	SLV FO 9	-0.43396	-0.52075
1791	SLU 10	-0.73398	-0.88078	SLV FO 5	-0.44128	-0.52954
1792	SLU 10	-0.73458	-0.88149	SLV FO 5	-0.44234	-0.53081
1793	SLU 10	-0.73634	-0.88361	SLV FO 5	-0.44383	-0.5326
1794	SLU 10	-0.7349	-0.88188	SLV FO 9	-0.44178	-0.53014
1795	SLU 10	-0.73531	-0.88237	SLV FO 9	-0.44147	-0.52976

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
1796	SLU 10	-0.73773	-0.88527	SLV FO 9	-0.44205	-0.53046
1797	SLU 10	-0.73693	-0.88432	SLV FO 5	-0.44944	-0.53933
1798	SLU 10	-0.73639	-0.88367	SLV FO 5	-0.45121	-0.54146
1799	SLU 10	-0.74331	-0.89197	SLV FO 9	-0.47213	-0.56656
1800	SLU 10	-0.74203	-0.89043	SLV FO 9	-0.47238	-0.56685
1801	SLU 10	-0.74193	-0.89032	SLV FO 9	-0.47307	-0.56768
1802	SLU 10	-0.73032	-0.87639	SLV FO 5	-0.47271	-0.56725
1803	SLU 10	-0.72731	-0.87278	SLV FO 5	-0.47048	-0.56458
1804	SLU 10	-0.72587	-0.87104	SLV FO 5	-0.46887	-0.56264
1805	SLU 10	-0.7422	-0.89064	SLV FO 1	-0.45669	-0.54803
1807	SLU 10	-0.74186	-0.89023	SLV FO 1	-0.44596	-0.53515
1808	SLU 10	-0.73752	-0.88502	SLV FO 9	-0.43528	-0.52233
1809	SLU 10	-0.72437	-0.86925	SLV FO 9	-0.43567	-0.5228
1810	SLU 10	-0.73446	-0.88135	SLV FO 5	-0.44069	-0.52883
1811	SLU 10	-0.73904	-0.88684	SLV FO 5	-0.44559	-0.53471
1812	SLU 10	-0.73632	-0.88358	SLV FO 9	-0.44286	-0.53143
1813	SLU 10	-0.742	-0.89041	SLV FO 9	-0.44351	-0.53221
1814	SLU 10	-0.73952	-0.88742	SLV FO 5	-0.44868	-0.53841
1815	SLU 10	-0.73778	-0.88533	SLV FO 5	-0.45387	-0.54465
1816	SLU 10	-0.74547	-0.89456	SLV FO 5	-0.47159	-0.5659
1817	SLU 10	-0.74299	-0.89159	SLV FO 9	-0.47424	-0.56908
1818	SLU 10	-0.73449	-0.88139	SLV FO 9	-0.47471	-0.56965
1819	SLU 10	-0.72609	-0.8713	SLV FO 5	-0.46793	-0.56152
1820	SLU 10	-0.74206	-0.89047	SLV FO 5	-0.4654	-0.55848
1821	SLU 10	-0.74879	-0.89855	SLV FO 9	-0.43809	-0.5257
1822	SLU 10	-0.72725	-0.8727	SLV FO 5	-0.43759	-0.5251
1823	SLU 10	-0.7356	-0.88272	SLV FO 5	-0.44047	-0.52857
1824	SLU 10	-0.74211	-0.89053	SLV FO 5	-0.44734	-0.53681
1825	SLU 10	-0.73901	-0.88681	SLV FO 9	-0.44444	-0.53332
1826	SLU 10	-0.74763	-0.89716	SLV FO 9	-0.44568	-0.53481
1827	SLU 10	-0.74391	-0.89269	SLV FO 5	-0.4489	-0.53869
1828	SLU 10	-0.74062	-0.88874	SLV FO 5	-0.45714	-0.54857
1829	SLU 10	-0.74791	-0.89749	SLV FO 5	-0.47093	-0.56511
1830	SLU 10	-0.74484	-0.89381	SLV FO 9	-0.47574	-0.57089
1831	SLU 10	-0.73915	-0.88699	SLV FO 9	-0.47617	-0.5714
1832	SLU 10	-0.72777	-0.87332	SLV FO 5	-0.46758	-0.5611
1833	SLU 10	-0.74155	-0.88986	SLV FO 5	-0.46655	-0.55986
1834	SLU 10	-0.76284	-0.91541	SLV FO 9	-0.44187	-0.53024
1835	SLU 10	-0.73087	-0.87704	SLV FO 5	-0.43829	-0.52595
1836	SLU 10	-0.73676	-0.88412	SLV FO 5	-0.44042	-0.5285
1837	SLU 10	-0.74483	-0.89379	SLV FO 9	-0.44853	-0.53823
1838	SLU 10	-0.74219	-0.89063	SLV FO 9	-0.44616	-0.53539
1839	SLU 10	-0.75383	-0.90459	SLV FO 9	-0.44824	-0.53789
1840	SLU 10	-0.74953	-0.89944	SLV FO 5	-0.44993	-0.53992
1841	SLU 10	-0.74416	-0.89299	SLV FO 5	-0.46064	-0.55277
1842	SLU 10	-0.74987	-0.89985	SLV FO 5	-0.47009	-0.56411
1843	SLU 10	-0.74684	-0.89621	SLV FO 9	-0.47729	-0.57275
1844	SLU 10	-0.74349	-0.89219	SLV FO 9	-0.47791	-0.57349
1845	SLU 10	-0.73046	-0.87656	SLV FO 5	-0.46764	-0.56116
1846	SLU 10	-0.74056	-0.88867	SLV FO 5	-0.46737	-0.56084
1847	SLU 10	-0.81491	-0.97789	SLV FO 9	-0.45659	-0.54791
1848	SLU 10	-0.76721	-0.92065	SLV FO 5	-0.45491	-0.5459
1849	SLU 10	-0.779	-0.9348	SLV FO 9	-0.44638	-0.53565
1850	SLU 10	-0.73418	-0.88102	SLV FO 5	-0.43916	-0.527
1851	SLU 10	-0.73722	-0.88466	SLV FO 5	-0.44028	-0.52834
1852	SLU 10	-0.74646	-0.89575	SLV FO 9	-0.44889	-0.53867
1853	SLU 10	-0.74495	-0.89394	SLV FO 9	-0.44765	-0.53718
1854	SLU 10	-0.75965	-0.91159	SLV FO 9	-0.45083	-0.54099
1855	SLU 10	-0.75556	-0.90667	SLV FO 5	-0.45145	-0.54174
1856	SLU 10	-0.74751	-0.89701	SLV FO 5	-0.46395	-0.55674
1857	SLU 10	-0.75066	-0.90079	SLV FO 5	-0.46876	-0.56252
1858	SLU 10	-0.74823	-0.89787	SLV FO 9	-0.47854	-0.57425
1859	SLU 10	-0.74671	-0.89605	SLV FO 9	-0.47895	-0.57474
1860	SLU 10	-0.73358	-0.8803	SLV FO 5	-0.46784	-0.56141
1861	SLU 10	-0.73892	-0.8867	SLV FO 5	-0.46783	-0.5614
1862	SLU 10	-0.76689	-0.92026	SLV FO 9	-0.45448	-0.54537
1863	SLU 10	-0.76516	-0.91819	SLV FO 5	-0.45435	-0.54522
1864	SLU 10	-0.79656	-0.95587	SLV FO 9	-0.45135	-0.54162
1865	SLU 10	-0.73641	-0.88369	SLV FO 5	-0.43988	-0.52785
1866	SLU 10	-0.74651	-0.89581	SLV FO 9	-0.44861	-0.53833
1867	SLU 10	-0.74985	-0.89982	SLV FO 5	-0.46672	-0.56006
1868	SLU 10	-0.74831	-0.89797	SLV FO 9	-0.47916	-0.57499
1869	SLU 10	-0.73654	-0.88384	SLV FO 5	-0.46796	-0.56156
1870	SLU 10	-0.76424	-0.91708	SLV FO 9	-0.45302	-0.54363
1871	SLU 10	-0.76105	-0.91326	SLV FO 5	-0.45306	-0.54367
1872	SLU 10	-0.80594	-0.96712	SLV FO 9	-0.43707	-0.52448
1873	SLU 10	-0.78753	-0.94503	SLV FO 9	-0.43183	-0.51819
1874	SLU 10	-0.76958	-0.9235	SLV FO 9	-0.42673	-0.51208
1875	SLU 10	-0.75256	-0.90307	SLV FO 9	-0.42194	-0.50633
1876	SLU 10	-0.73701	-0.88441	SLV FO 9	-0.41765	-0.50118
1877	SLU 10	-0.72353	-0.86824	SLV FO 9	-0.41408	-0.4969
1878	SLU 10	-0.71269	-0.85523	SLV FO 9	-0.41143	-0.49372
1879	SLU 10	-0.70485	-0.84582	SLV FO 9	-0.40985	-0.49182
1880	SLU 10	-0.70011	-0.84013	SLV FO 9	-0.40939	-0.49127
1881	SLU 10	-0.69827	-0.83792	SLV FO 9	-0.40998	-0.49197
1882	SLU 10	-0.69883	-0.8386	SLV FO 9	-0.41142	-0.49371
1883	SLU 10	-0.70104	-0.84125	SLV FO 5	-0.41199	-0.49439
1884	SLU 10	-0.704	-0.8448	SLV FO 5	-0.41249	-0.49498
1885	SLU 10	-0.70683	-0.8482	SLV FO 5	-0.41324	-0.49589
1886	SLU 10	-0.70888	-0.85066	SLV FO 5	-0.41395	-0.49674
1887	SLU 10	-0.70984	-0.85181	SLV FO 5	-0.41447	-0.49737
1888	SLU 10	-0.7098	-0.85177	SLV FO 5	-0.41482	-0.49778
1889	SLU 10	-0.70919	-0.85103	SLV FO 5	-0.41511	-0.49813
1890	SLU 10	-0.70855	-0.85026	SLV FO 5	-0.41554	-0.49865
1891	SLU 10	-0.70842	-0.85011	SLV FO 5	-0.41626	-0.49951
1892	SLU 10	-0.70914	-0.85097	SLV FO 5	-0.41734	-0.50081
1893	SLU 10	-0.71078	-0.85293	SLV FO 5	-0.41876	-0.50251
1894	SLU 10	-0.71313	-0.85576	SLV FO 5	-0.42037	-0.50444

Nodo	Pressione minima			Pressione massima		
Ind.	Cont.	uz	Valore	Cont.	uz	Valore
1895	SLU 10	-0.71575	-0.8589	SLV FO 5	-0.42194	-0.50633
1896	SLU 10	-0.71803	-0.86164	SLV FO 5	-0.42319	-0.50783
1897	SLU 10	-0.71942	-0.8633	SLV FO 9	-0.42362	-0.50835
1898	SLU 10	-0.71953	-0.86344	SLV FO 9	-0.42336	-0.50803
1899	SLU 10	-0.71836	-0.86203	SLV FO 9	-0.42254	-0.50705
1900	SLU 10	-0.71623	-0.85948	SLV FO 9	-0.4213	-0.50556
1901	SLU 10	-0.7138	-0.85656	SLV FO 9	-0.41989	-0.50386
1902	SLU 10	-0.7118	-0.85417	SLV FO 9	-0.41862	-0.50234
1903	SLU 10	-0.71091	-0.8531	SLV FO 9	-0.41779	-0.50134
1904	SLU 10	-0.7116	-0.85391	SLV FO 9	-0.41762	-0.50114
1905	SLU 10	-0.71402	-0.85683	SLV FO 9	-0.41823	-0.50188
1906	SLU 10	-0.71805	-0.86166	SLV FO 9	-0.4196	-0.50352
1907	SLU 10	-0.72321	-0.86786	SLV FO 9	-0.42158	-0.50589
1908	SLU 10	-0.72883	-0.8746	SLV FO 9	-0.4239	-0.50868
1909	SLU 10	-0.7341	-0.88092	SLV FO 9	-0.42624	-0.51148
1910	SLU 10	-0.73823	-0.88587	SLV FO 9	-0.42824	-0.51388
1911	SLU 10	-0.74061	-0.88873	SLV FO 9	-0.42958	-0.5155
1912	SLU 10	-0.7409	-0.88908	SLV FO 5	-0.43005	-0.51606
1913	SLU 10	-0.73906	-0.88687	SLV FO 5	-0.42966	-0.5156
1914	SLU 10	-0.73539	-0.88246	SLV FO 5	-0.42866	-0.51439
1915	SLU 10	-0.73045	-0.87654	SLV FO 5	-0.42737	-0.51285
1916	SLU 10	-0.72501	-0.87001	SLV FO 5	-0.42617	-0.51141
1917	SLU 10	-0.71988	-0.86386	SLV FO 5	-0.42541	-0.51049
1918	SLU 10	-0.7158	-0.85896	SLV FO 5	-0.42535	-0.51042
1919	SLU 10	-0.71328	-0.85593	SLV FO 5	-0.42616	-0.51139
1920	SLU 10	-0.71253	-0.85504	SLV FO 5	-0.42787	-0.51344
1921	SLU 10	-0.71346	-0.85615	SLV FO 5	-0.43035	-0.51642
1922	SLU 10	-0.71566	-0.85879	SLV FO 5	-0.43338	-0.52006
1923	SLU 10	-0.71848	-0.86218	SLV FO 5	-0.43663	-0.52395
1924	SLU 10	-0.7212	-0.86544	SLV FO 5	-0.43975	-0.5277
1925	SLU 10	-0.72314	-0.86777	SLV FO 5	-0.44245	-0.53095
1926	SLU 10	-0.72389	-0.86866	SLV FO 5	-0.44458	-0.5335
1927	SLU 10	-0.72337	-0.86805	SLV FO 5	-0.44615	-0.53538
1928	SLU 10	-0.72191	-0.86629	SLV FO 5	-0.44731	-0.53677
1929	SLU 10	-0.72005	-0.86405	SLV FO 5	-0.44832	-0.53798
1930	SLU 10	-0.71839	-0.86207	SLV FO 9	-0.44888	-0.53866
1931	SLU 10	-0.71743	-0.86092	SLV FO 9	-0.44939	-0.53927
1932	SLU 10	-0.71744	-0.86093	SLV FO 9	-0.45026	-0.54031
1933	SLU 10	-0.71839	-0.86206	SLV FO 9	-0.45149	-0.54179
1934	SLU 10	-0.71997	-0.86396	SLV FO 9	-0.45298	-0.54357
1935	SLU 10	-0.72165	-0.86598	SLV FO 9	-0.45448	-0.54538
1936	SLU 10	-0.72283	-0.8674	SLV FO 9	-0.45573	-0.54687
1937	SLU 10	-0.72296	-0.86755	SLV FO 9	-0.45645	-0.54774
1938	SLU 10	-0.72175	-0.8661	SLV FO 9	-0.45651	-0.54781
1939	SLU 10	-0.71926	-0.86312	SLV FO 9	-0.45593	-0.54712
1940	SLU 10	-0.71592	-0.8591	SLV FO 9	-0.45487	-0.54585
1941	SLU 10	-0.71235	-0.85482	SLV FO 9	-0.45407	-0.54489
1942	SLU 10	-0.70924	-0.85109	SLV FO 9	-0.45318	-0.54382
1943	SLU 10	-0.70718	-0.84862	SLV FO 5	-0.45169	-0.54202
1944	SLU 10	-0.70655	-0.84786	SLV FO 5	-0.45067	-0.54081
1945	SLU 10	-0.70745	-0.84894	SLV FO 5	-0.45028	-0.54034
1946	SLU 10	-0.70974	-0.85169	SLV FO 5	-0.45045	-0.54054
1947	SLU 10	-0.71307	-0.85568	SLV FO 5	-0.45104	-0.54125
1948	SLU 10	-0.71696	-0.86036	SLV FO 5	-0.45186	-0.54224
1949	SLU 10	-0.72096	-0.86515	SLV FO 5	-0.45271	-0.54325
1950	SLU 10	-0.7247	-0.86964	SLV FO 5	-0.45343	-0.54412
1951	SLU 10	-0.72803	-0.87364	SLV FO 5	-0.45393	-0.54472
1952	SLU 10	-0.73095	-0.87714	SLV FO 5	-0.45417	-0.545
1953	SLU 10	-0.7335	-0.88021	SLV FO 5	-0.45409	-0.54491
1954	SLU 10	-0.73563	-0.88276	SLV FO 1	-0.45149	-0.54179
1956	SLU 10	-0.73684	-0.88421	SLV FO 1	-0.44161	-0.52993

7.5 Cedimenti fondazioni superficiali

***Nodo**: nodo che interagisce col terreno.*
***Ind.**: indice del nodo.*
***spostamento nodale massimo**: situazione in cui si verifica lo spostamento massimo verticale nel nodo calcolato dal solutore ad elementi finiti. Lo spostamento massimo con segno è quello con valore massimo lungo l'asse Z, dove valori positivi rappresentano spostamenti verso l'alto.*
***Cont.**: nome breve della condizione o combinazione di carico a cui si riferisce lo spostamento.*
***uz**: spostamento verticale del nodo calcolato dal solutore ad elementi finiti. Lo spostamento è dotato di segno. [cm]*
***Press.**: pressione sul terreno corrispondente allo spostamento. Valori positivi indicano trazione, valori negativi indicano compressione. [daN/cm²]*
***spostamento nodale minimo**: situazione in cui si verifica lo spostamento minimo verticale del nodo calcolato dal solutore ad elementi finiti. Lo spostamento minimo con segno è quello con valore minimo lungo l'asse Z, dove valori negativi rappresentano spostamenti verso il basso.*
***Cont.**: nome breve della condizione o combinazione di carico a cui si riferisce lo spostamento.*
***uz**: spostamento verticale del nodo calcolato dal solutore ad elementi finiti. Lo spostamento è dotato di segno. [cm]*
***Press.**: pressione sul terreno corrispondente allo spostamento. Valori positivi indicano trazione, valori negativi indicano compressione. [daN/cm²]*
***Cedimento elastico**: cedimento teorico elastico massimo.*
***Cont.**: nome breve della combinazione di carico in cui è stato calcolato il cedimento teorico elastico massimo.*
***v.**: valore del cedimento teorico elastico massimo. [cm]*
***Cedimento edometrico**: cedimento teorico edometrico massimo.*
***Cont.**: nome breve della combinazione di carico in cui è stato calcolato il cedimento teorico edometrico massimo.*
***v.**: valore del cedimento teorico edometrico massimo. [cm]*
***Cedimento di consolidazione**: cedimento teorico di consolidazione massimo.*
***Cont.**: nome breve della combinazione di carico in cui è stato calcolato il cedimento teorico di consolidazione massimo.*
***v.**: valore del cedimento teorico di consolidazione massimo. [cm]*

Spostamento estremo minimo -0.79429 al nodo di indice 682, di coordinate x = 38, y = 245, z = -30, nel contesto SLD 1.
Spostamento estremo massimo -0.46749 al nodo di indice 1881, di coordinate x = 486, y = 955, z = -30, nel contesto SLD 9.

Nodo	spostamento nodale massimo			spostamento nodale minimo			Cedimento elastico		Cedimento edometrico		Cedimento di consolidazione	
Ind.	Cont.	uz	Press.	Cont.	uz	Press.	Cont.	v.	Cont.	v.	Cont.	v.

7.6 Rigidezze di interpiano

***Quota inf.**: quota inferiore dell'interpiano per il quale è stata valutata la rigidezza relativa. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***Quota sup.**: quota superiore dell'interpiano per il quale è stata valutata la rigidezza relativa. esprimibile come livello, falda, piano orizzontale alla Z specificata. [cm]*
***KUx**: rigidezza relativa alla traslazione in direzione globale X. [daN/cm]*
***KUy**: rigidezza relativa alla traslazione in direzione globale Y. [daN/cm]*

Quota inf.	Quota sup.	KUx	KUy
L1	L2	8551837	577913
L2	L3	60232	180825

7.7 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
Fondazione	Pesi	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	Variabile C	0	0	0	0	0	0	0	0	0
Fondazione	Neve	0	0	0	0	0	0	0	0	0
Fondazione	SLV X	-125	1	0	0	0	0	-125	1	0
Fondazione	SLV Y	0	261	0	0	0	0	0	261	0
Fondazione	X SLD	-77	1	0	0	0	0	-77	1	0
Fondazione	Y SLD	0	153	0	0	0	0	0	153	0
Fondazione	Tr sLV X	11613	0	0	0	0	0	11613	0	0
Fondazione	Tr sLV Y	0	0	0	0	0	0	0	0	0
Fondazione	Tr x SLD	4242	0	0	0	0	0	4242	0	0
Fondazione	Tr y SLD	0	0	0	0	0	0	0	0	0
Fondazione	Rig Ux	0	0	0	0	0	0	0	0	0
Fondazione	Rig Uy	0	0	0	0	0	0	0	0	0
Fondazione	Rig Rz	0	0	0	0	0	0	0	0	0
Fondazione	SLU 1	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLU 2	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLU 3	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLU 4	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLU 5	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLU 6	-8395	0	-19025	0	0	0	-8395	0	-19025
Fondazione	SLU 7	-8395	0	-19025	0	0	0	-8395	0	-19025
Fondazione	SLU 8	-8395	0	-19025	0	0	0	-8395	0	-19025
Fondazione	SLU 9	-8395	0	-19025	0	0	0	-8395	0	-19025
Fondazione	SLU 10	-8395	0	-19025	0	0	0	-8395	0	-19025
Fondazione	SLE RA 1	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLE RA 2	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLE RA 3	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLE RA 4	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLE RA 5	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLE FR 1	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLE FR 2	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLE FR 3	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLE FR 4	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLE QP 1	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLE QP 2	-6458	0	-14634	0	0	0	-6458	0	-14634
Fondazione	SLD 1	-10624	-47	-14635	0	0	0	-10624	-47	-14635
Fondazione	SLD 2	-10624	-47	-14635	0	0	0	-10624	-47	-14635
Fondazione	SLD 3	-10624	45	-14634	0	0	0	-10624	45	-14634
Fondazione	SLD 4	-10624	45	-14634	0	0	0	-10624	45	-14634
Fondazione	SLD 5	-7708	-154	-14635	0	0	0	-7708	-154	-14635
Fondazione	SLD 6	-7708	-154	-14635	0	0	0	-7708	-154	-14635
Fondazione	SLD 7	-7707	153	-14634	0	0	0	-7707	153	-14634
Fondazione	SLD 8	-7707	153	-14634	0	0	0	-7707	153	-14634
Fondazione	SLD 9	-5208	-153	-14634	0	0	0	-5208	-153	-14634
Fondazione	SLD 10	-5208	-153	-14634	0	0	0	-5208	-153	-14634
Fondazione	SLD 11	-5208	154	-14634	0	0	0	-5208	154	-14634
Fondazione	SLD 12	-5208	154	-14634	0	0	0	-5208	154	-14634
Fondazione	SLD 13	-2292	-45	-14634	0	0	0	-2292	-45	-14634
Fondazione	SLD 14	-2292	-45	-14634	0	0	0	-2292	-45	-14634
Fondazione	SLD 15	-2292	47	-14634	0	0	0	-2292	47	-14634
Fondazione	SLD 16	-2292	47	-14634	0	0	0	-2292	47	-14634
Fondazione	SLV 1	-17946	-80	-14635	0	0	0	-17946	-80	-14635
Fondazione	SLV 2	-17946	-80	-14635	0	0	0	-17946	-80	-14635
Fondazione	SLV 3	-17945	77	-14635	0	0	0	-17945	77	-14635

Livello	Cont.	Totale			Aste verticali			Pareti		
Nome	N.br.	F			F			F		
		X	Y	Z	X	Y	Z	X	Y	Z
Fondazione	SLV 4	-17945	77	-14635	0	0	0	-17945	77	-14635
Fondazione	SLV 5	-9904	-261	-14635	0	0	0	-9904	-261	-14635
Fondazione	SLV 6	-9904	-261	-14635	0	0	0	-9904	-261	-14635
Fondazione	SLV 7	-9904	261	-14634	0	0	0	-9904	261	-14634
Fondazione	SLV 8	-9904	261	-14634	0	0	0	-9904	261	-14634
Fondazione	SLV 9	-3012	-261	-14634	0	0	0	-3012	-261	-14634
Fondazione	SLV 10	-3012	-261	-14634	0	0	0	-3012	-261	-14634
Fondazione	SLV 11	-3011	261	-14634	0	0	0	-3011	261	-14634
Fondazione	SLV 12	-3011	261	-14634	0	0	0	-3011	261	-14634
Fondazione	SLV 13	5030	-77	-14634	0	0	0	5030	-77	-14634
Fondazione	SLV 14	5030	-77	-14634	0	0	0	5030	-77	-14634
Fondazione	SLV 15	5030	80	-14634	0	0	0	5030	80	-14634
Fondazione	SLV 16	5030	80	-14634	0	0	0	5030	80	-14634
Fondazione	SLV FO 1	-19094	-88	-14635	0	0	0	-19094	-88	-14635
Fondazione	SLV FO 2	-19094	-88	-14635	0	0	0	-19094	-88	-14635
Fondazione	SLV FO 3	-19094	85	-14635	0	0	0	-19094	85	-14635
Fondazione	SLV FO 4	-19094	85	-14635	0	0	0	-19094	85	-14635
Fondazione	SLV FO 5	-10249	-288	-14635	0	0	0	-10249	-288	-14635
Fondazione	SLV FO 6	-10249	-288	-14635	0	0	0	-10249	-288	-14635
Fondazione	SLV FO 7	-10248	287	-14634	0	0	0	-10248	287	-14634
Fondazione	SLV FO 8	-10248	287	-14634	0	0	0	-10248	287	-14634
Fondazione	SLV FO 9	-2667	-287	-14635	0	0	0	-2667	-287	-14635
Fondazione	SLV FO 10	-2667	-287	-14635	0	0	0	-2667	-287	-14635
Fondazione	SLV FO 11	-2667	288	-14634	0	0	0	-2667	288	-14634
Fondazione	SLV FO 12	-2667	288	-14634	0	0	0	-2667	288	-14634
Fondazione	SLV FO 13	6179	-85	-14634	0	0	0	6179	-85	-14634
Fondazione	SLV FO 14	6179	-85	-14634	0	0	0	6179	-85	-14634
Fondazione	SLV FO 15	6179	88	-14634	0	0	0	6179	88	-14634
Fondazione	SLV FO 16	6179	88	-14634	0	0	0	6179	88	-14634
Fondazione	CRTFP Ux+	0	0	0	0	0	0	0	0	0
Fondazione	CRTFP Ux-	0	0	0	0	0	0	0	0	0
Fondazione	CRTFP Uy+	0	0	0	0	0	0	0	0	0
Fondazione	CRTFP Uy-	0	0	0	0	0	0	0	0	0
Fondazione	CRTFP Rz+	0	0	0	0	0	0	0	0	0
Fondazione	CRTFP Rz-	0	0	0	0	0	0	0	0	0
Piano 1	Pesi	-177	-165	-336126	0	0	0	-177	-165	-336126
Piano 1	Variabile C	-431	-263	-111681	0	0	0	-431	-263	-111681
Piano 1	Neve	7	-5	-19486	0	0	0	7	-5	-19486
Piano 1	SLV X	94123	-25	-6378	0	0	0	94123	-25	-6378
Piano 1	SLV Y	-108	121257	-1115	0	0	0	-108	121257	-1115
Piano 1	X SLD	52832	-14	-3582	0	0	0	52832	-14	-3582
Piano 1	Y SLD	-57	68094	-628	0	0	0	-57	68094	-628
Piano 1	Tr sLV X	-54	0	2	0	0	0	-54	0	2
Piano 1	Tr sLV Y	0	0	0	0	0	0	0	0	0
Piano 1	Tr x SLD	-20	0	1	0	0	0	-20	0	1
Piano 1	Tr y SLD	0	0	0	0	0	0	0	0	0
Piano 1	Rig Ux	1	0	0	0	0	0	1	0	0
Piano 1	Rig Uy	0	1	0	0	0	0	0	1	0
Piano 1	Rig Rz	0	0	0	0	0	0	0	0	0
Piano 1	SLU 1	-177	-165	-336126	0	0	0	-177	-165	-336126
Piano 1	SLU 2	-166	-173	-365354	0	0	0	-166	-173	-365354
Piano 1	SLU 3	-619	-448	-482620	0	0	0	-619	-448	-482620
Piano 1	SLU 4	-823	-559	-503648	0	0	0	-823	-559	-503648
Piano 1	SLU 5	-818	-563	-518262	0	0	0	-818	-563	-518262
Piano 1	SLU 6	-230	-215	-436964	0	0	0	-230	-215	-436964
Piano 1	SLU 7	-219	-222	-466192	0	0	0	-219	-222	-466192
Piano 1	SLU 8	-672	-498	-583457	0	0	0	-672	-498	-583457
Piano 1	SLU 9	-876	-609	-604486	0	0	0	-876	-609	-604486
Piano 1	SLU 10	-871	-613	-619100	0	0	0	-871	-613	-619100
Piano 1	SLE RA 1	-177	-165	-336126	0	0	0	-177	-165	-336126
Piano 1	SLE RA 2	-170	-170	-355611	0	0	0	-170	-170	-355611
Piano 1	SLE RA 3	-471	-354	-433788	0	0	0	-471	-354	-433788
Piano 1	SLE RA 4	-608	-428	-447807	0	0	0	-608	-428	-447807
Piano 1	SLE RA 5	-604	-430	-457550	0	0	0	-604	-430	-457550
Piano 1	SLE FR 1	-177	-165	-336126	0	0	0	-177	-165	-336126
Piano 1	SLE FR 2	-175	-166	-340023	0	0	0	-175	-166	-340023
Piano 1	SLE FR 3	-434	-324	-407032	0	0	0	-434	-324	-407032
Piano 1	SLE FR 4	-478	-349	-414303	0	0	0	-478	-349	-414303
Piano 1	SLE QP 1	-177	-165	-336126	0	0	0	-177	-165	-336126
Piano 1	SLE QP 2	-435	-323	-403135	0	0	0	-435	-323	-403135
Piano 1	SLD 1	-53230	-20737	-399365	0	0	0	-53230	-20737	-399365
Piano 1	SLD 2	-53230	-20737	-399365	0	0	0	-53230	-20737	-399365
Piano 1	SLD 3	-53264	20119	-399742	0	0	0	-53264	20119	-399742
Piano 1	SLD 4	-53264	20119	-399742	0	0	0	-53264	20119	-399742
Piano 1	SLD 5	-16221	-68413	-401432	0	0	0	-16221	-68413	-401432
Piano 1	SLD 6	-16221	-68413	-401432	0	0	0	-16221	-68413	-401432
Piano 1	SLD 7	-16336	67775	-402688	0	0	0	-16336	67775	-402688
Piano 1	SLD 8	-16336	67775	-402688	0	0	0	-16336	67775	-402688
Piano 1	SLD 9	15466	-68421	-403581	0	0	0	15466	-68421	-403581
Piano 1	SLD 10	15466	-68421	-403581	0	0	0	15466	-68421	-403581
Piano 1	SLD 11	15351	67767	-404837	0	0	0	15351	67767	-404837
Piano 1	SLD 12	15351	67767	-404837	0	0	0	15351	67767	-404837
Piano 1	SLD 13	52394	-20765	-406528	0	0	0	52394	-20765	-406528
Piano 1	SLD 14	52394	-20765	-406528	0	0	0	52394	-20765	-406528
Piano 1	SLD 15	52360	20092	-406905	0	0	0	52360	20092	-406905
Piano 1	SLD 16	52360	20092	-406905	0	0	0	52360	20092	-406905
Piano 1	SLV 1	-94472	-36675	-396424	0	0	0	-94472	-36675	-396424
Piano 1	SLV 2	-94472	-36675	-396424	0	0	0	-94472	-36675	-396424
Piano 1	SLV 3	-94537	36079	-397093	0	0	0	-94537	36079	-397093
Piano 1	SLV 4	-94537	36079	-397093	0	0	0	-94537	36079	-397093
Piano 1	SLV 5	-28548	-121572	-400107	0	0	0	-28548	-121572	-400107
Piano 1	SLV 6	-28548	-121572	-400107	0	0	0	-28548	-121572	-400107
Piano 1	SLV 7	-28764	120941	-402337	0	0	0	-28764	120941	-402337
Piano 1	SLV 8	-28764	120941	-402337	0	0	0	-28764	120941	-402337
Piano 1	SLV 9	27893	-121587	-403933	0	0	0	27893	-121587	-403933
Piano 1	SLV 10	27893	-121587	-403933	0	0	0	27893	-121587	-403933
Piano 1	SLV 11	27678	120926	-406162	0	0	0	27678	120926	-406162

Livello	Cont.	Totale			Aste verticali			Pareti		
Nome	N.br.	F			F			F		
		X	Y	Z	X	Y	Z	X	Y	Z
Piano 1	SLV 12	27678	120926	-406162	0	0	0	27678	120926	-406162
Piano 1	SLV 13	93666	-36724	-409176	0	0	0	93666	-36724	-409176
Piano 1	SLV 14	93666	-36724	-409176	0	0	0	93666	-36724	-409176
Piano 1	SLV 15	93601	36030	-409845	0	0	0	93601	36030	-409845
Piano 1	SLV 16	93601	36030	-409845	0	0	0	93601	36030	-409845
Piano 1	SLV FO 1	-103875	-40311	-395753	0	0	0	-103875	-40311	-395753
Piano 1	SLV FO 2	-103875	-40311	-395753	0	0	0	-103875	-40311	-395753
Piano 1	SLV FO 3	-103947	39719	-396489	0	0	0	-103947	39719	-396489
Piano 1	SLV FO 4	-103947	39719	-396489	0	0	0	-103947	39719	-396489
Piano 1	SLV FO 5	-31359	-133697	-399804	0	0	0	-31359	-133697	-399804
Piano 1	SLV FO 6	-31359	-133697	-399804	0	0	0	-31359	-133697	-399804
Piano 1	SLV FO 7	-31597	133067	-402257	0	0	0	-31597	133067	-402257
Piano 1	SLV FO 8	-31597	133067	-402257	0	0	0	-31597	133067	-402257
Piano 1	SLV FO 9	30726	-133713	-404013	0	0	0	30726	-133713	-404013
Piano 1	SLV FO 10	30726	-133713	-404013	0	0	0	30726	-133713	-404013
Piano 1	SLV FO 11	30489	133051	-406465	0	0	0	30489	133051	-406465
Piano 1	SLV FO 12	30489	133051	-406465	0	0	0	30489	133051	-406465
Piano 1	SLV FO 13	103076	-40365	-409781	0	0	0	103076	-40365	-409781
Piano 1	SLV FO 14	103076	-40365	-409781	0	0	0	103076	-40365	-409781
Piano 1	SLV FO 15	103005	39665	-410516	0	0	0	103005	39665	-410516
Piano 1	SLV FO 16	103005	39665	-410516	0	0	0	103005	39665	-410516
Piano 1	CRTFP Ux+	1	0	0	0	0	0	1	0	0
Piano 1	CRTFP Ux-	-1	0	0	0	0	0	-1	0	0
Piano 1	CRTFP Uy+	0	1	0	0	0	0	0	1	0
Piano 1	CRTFP Uy-	0	-1	0	0	0	0	0	-1	0
Piano 1	CRTFP Rz+	0	0	0	0	0	0	0	0	0
Piano 1	CRTFP Rz-	0	0	0	0	0	0	0	0	0
Copertura	Pesi	0	0	-223562	0	0	0	0	0	-223562
Copertura	Variabile C	0	0	0	0	0	0	0	0	0
Copertura	Neve	0	0	-19567	0	0	0	0	0	-19567
Copertura	SLV X	51816	0	105	0	0	0	51816	0	105
Copertura	SLV Y	-3	84064	0	0	0	0	-3	84064	0
Copertura	X SLD	29046	0	56	0	0	0	29046	0	56
Copertura	Y SLD	-2	47231	0	0	0	0	-2	47231	0
Copertura	Tr sLV X	0	0	0	0	0	0	0	0	0
Copertura	Tr sLV Y	0	0	0	0	0	0	0	0	0
Copertura	Tr x SLD	0	0	0	0	0	0	0	0	0
Copertura	Tr y SLD	0	0	0	0	0	0	0	0	0
Copertura	Rig Ux	1	0	0	0	0	0	1	0	0
Copertura	Rig Uy	0	1	0	0	0	0	0	1	0
Copertura	Rig Rz	0	0	0	0	0	0	0	0	0
Copertura	SLU 1	0	0	-223562	0	0	0	0	0	-223562
Copertura	SLU 2	0	0	-252912	0	0	0	0	0	-252912
Copertura	SLU 3	0	0	-252912	0	0	0	0	0	-252912
Copertura	SLU 4	0	0	-223562	0	0	0	0	0	-223562
Copertura	SLU 5	0	0	-238237	0	0	0	0	0	-238237
Copertura	SLU 6	0	0	-290631	0	0	0	0	0	-290631
Copertura	SLU 7	0	0	-319981	0	0	0	0	0	-319981
Copertura	SLU 8	0	0	-319981	0	0	0	0	0	-319981
Copertura	SLU 9	0	0	-290631	0	0	0	0	0	-290631
Copertura	SLU 10	0	0	-305306	0	0	0	0	0	-305306
Copertura	SLE RA 1	0	0	-223562	0	0	0	0	0	-223562
Copertura	SLE RA 2	0	0	-243129	0	0	0	0	0	-243129
Copertura	SLE RA 3	0	0	-243129	0	0	0	0	0	-243129
Copertura	SLE RA 4	0	0	-223562	0	0	0	0	0	-223562
Copertura	SLE RA 5	0	0	-233346	0	0	0	0	0	-233346
Copertura	SLE FR 1	0	0	-223562	0	0	0	0	0	-223562
Copertura	SLE FR 2	0	0	-227476	0	0	0	0	0	-227476
Copertura	SLE FR 3	0	0	-227476	0	0	0	0	0	-227476
Copertura	SLE FR 4	0	0	-223562	0	0	0	0	0	-223562
Copertura	SLE QP 1	0	0	-223562	0	0	0	0	0	-223562
Copertura	SLE QP 2	0	0	-223562	0	0	0	0	0	-223562
Copertura	SLD 1	-29046	-14169	-223618	0	0	0	-29046	-14169	-223618
Copertura	SLD 2	-29046	-14169	-223618	0	0	0	-29046	-14169	-223618
Copertura	SLD 3	-29047	14169	-223618	0	0	0	-29047	14169	-223618
Copertura	SLD 4	-29047	14169	-223618	0	0	0	-29047	14169	-223618
Copertura	SLD 5	-8712	-47231	-223579	0	0	0	-8712	-47231	-223579
Copertura	SLD 6	-8712	-47231	-223579	0	0	0	-8712	-47231	-223579
Copertura	SLD 7	-8716	47231	-223579	0	0	0	-8716	47231	-223579
Copertura	SLD 8	-8716	47231	-223579	0	0	0	-8716	47231	-223579
Copertura	SLD 9	8716	-47231	-223545	0	0	0	8716	-47231	-223545
Copertura	SLD 10	8716	-47231	-223545	0	0	0	8716	-47231	-223545
Copertura	SLD 11	8712	47231	-223546	0	0	0	8712	47231	-223546
Copertura	SLD 12	8712	47231	-223546	0	0	0	8712	47231	-223546
Copertura	SLD 13	29047	-14169	-223506	0	0	0	29047	-14169	-223506
Copertura	SLD 14	29047	-14169	-223506	0	0	0	29047	-14169	-223506
Copertura	SLD 15	29046	14169	-223506	0	0	0	29046	14169	-223506
Copertura	SLD 16	29046	14169	-223506	0	0	0	29046	14169	-223506
Copertura	SLV 1	-51815	-25219	-223668	0	0	0	-51815	-25219	-223668
Copertura	SLV 2	-51815	-25219	-223668	0	0	0	-51815	-25219	-223668
Copertura	SLV 3	-51817	25219	-223668	0	0	0	-51817	25219	-223668
Copertura	SLV 4	-51817	25219	-223668	0	0	0	-51817	25219	-223668
Copertura	SLV 5	-15542	-84064	-223594	0	0	0	-15542	-84064	-223594
Copertura	SLV 6	-15542	-84064	-223594	0	0	0	-15542	-84064	-223594
Copertura	SLV 7	-15548	84064	-223594	0	0	0	-15548	84064	-223594
Copertura	SLV 8	-15548	84064	-223594	0	0	0	-15548	84064	-223594
Copertura	SLV 9	15548	-84064	-223530	0	0	0	15548	-84064	-223530
Copertura	SLV 10	15548	-84064	-223530	0	0	0	15548	-84064	-223530
Copertura	SLV 11	15542	84064	-223531	0	0	0	15542	84064	-223531
Copertura	SLV 12	15542	84064	-223531	0	0	0	15542	84064	-223531
Copertura	SLV 13	51817	-25219	-223457	0	0	0	51817	-25219	-223457
Copertura	SLV 14	51817	-25219	-223457	0	0	0	51817	-25219	-223457
Copertura	SLV 15	51815	25219	-223457	0	0	0	51815	25219	-223457
Copertura	SLV 16	51815	25219	-223457	0	0	0	51815	25219	-223457
Copertura	SLV FO 1	-56997	-27741	-223678	0	0	0	-56997	-27741	-223678
Copertura	SLV FO 2	-56997	-27741	-223678	0	0	0	-56997	-27741	-223678
Copertura	SLV FO 3	-56999	27741	-223678	0	0	0	-56999	27741	-223678

Livello	Cont.	Totale			Aste verticali			Pareti		
Nome	N.br.	F			F			F		
		X	Y	Z	X	Y	Z	X	Y	Z
Copertura	SLV FO 4	-56999	27741	-223678	0	0	0	-56999	27741	-223678
Copertura	SLV FO 5	-17096	-92470	-223597	0	0	0	-17096	-92470	-223597
Copertura	SLV FO 6	-17096	-92470	-223597	0	0	0	-17096	-92470	-223597
Copertura	SLV FO 7	-17102	92470	-223598	0	0	0	-17102	92470	-223598
Copertura	SLV FO 8	-17102	92470	-223598	0	0	0	-17102	92470	-223598
Copertura	SLV FO 9	17102	-92470	-223527	0	0	0	17102	-92470	-223527
Copertura	SLV FO 10	17102	-92470	-223527	0	0	0	17102	-92470	-223527
Copertura	SLV FO 11	17096	92470	-223528	0	0	0	17096	92470	-223528
Copertura	SLV FO 12	17096	92470	-223528	0	0	0	17096	92470	-223528
Copertura	SLV FO 13	56999	-27741	-223446	0	0	0	56999	-27741	-223446
Copertura	SLV FO 14	56999	-27741	-223446	0	0	0	56999	-27741	-223446
Copertura	SLV FO 15	56997	27741	-223447	0	0	0	56997	27741	-223447
Copertura	SLV FO 16	56997	27741	-223447	0	0	0	56997	27741	-223447
Copertura	CRTFP Ux+	1	0	0	0	0	0	1	0	0
Copertura	CRTFP Ux-	-1	0	0	0	0	0	-1	0	0
Copertura	CRTFP Uy+	0	1	0	0	0	0	0	1	0
Copertura	CRTFP Uy-	0	-1	0	0	0	0	0	-1	0
Copertura	CRTFP Rz+	0	0	0	0	0	0	0	0	0
Copertura	CRTFP Rz-	0	0	0	0	0	0	0	0	0

7.8 Risposta modale

***Modo**: identificativo del modo di vibrare.*
***Periodo**: periodo. [s]*
***Massa X**: massa partecipante in direzione globale X. Il valore è adimensionale.*
***Massa Y**: massa partecipante in direzione globale Y. Il valore è adimensionale.*
***Massa Z**: massa partecipante in direzione globale Z. Il valore è adimensionale.*
***Massa rot. X**: massa rotazionale partecipante attorno la direzione globale X. Il valore è adimensionale.*
***Massa rot. Y**: massa rotazionale partecipante attorno la direzione globale Y. Il valore è adimensionale.*
***Massa rot. Z**: massa rotazionale partecipante attorno la direzione globale Z. Il valore è adimensionale.*
***Massa sX**: massa partecipante in direzione Sisma X. Il valore è adimensionale.*
***Massa sY**: massa partecipante in direzione Sisma Y. Il valore è adimensionale.*

Totale masse partecipanti:

Traslazione X: 0.951519
Traslazione Y: 0.895629
Traslazione Z: 0
Rotazione X: 0.999489
Rotazione Y: 0.998835
Rotazione Z: 0.854948

Modo	Periodo	Massa X	Massa Y	Massa Z	Massa rot. X	Massa rot. Y	Massa rot. Z	Massa sX	Massa sY
1	0.423990451	0.177489364	0	0	0	0.198201724	0.004855057	0.177489364	0
2	0.418346236	0.731483873	0	0	0	0.794850579	0.019994335	0.731483873	0
3	0.194316464	0	0.84770312	0	0.958742887	0	0.479633893	0	0.84770312
4	0.153305717	0	0.047925629	0	0.040746244	0	0.349299399	0	0.047925629
5	0.123034103	0.042546033	0	0	0	0.005782976	0.00116567	0.042546033	0

7.9 Equilibrio globale forze

***Contributo**: Nome attribuito al sistema risultante.*
***Fx**: Componente X di forza del sistema risultante. [daN]*
***Fy**: Componente Y di forza del sistema risultante. [daN]*
***Fz**: Componente Z di forza 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 condizione di carico: Pesi strutturali

Contributo	Fx	Fy	Fz	Mx	My	Mz
Forze applicate	-10757.735	0	-3315860.171	-1318047138	6901531545	4276200
Reazioni	10757.735	0	3315860.171	1318047138	-6901531545	-4276200
P-Delta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in condizione di carico: Variabile C

Contributo	Fx	Fy	Fz	Mx	My	Mz
Forze applicate	0	0	-140280.432	-55762613	300230608	0
Reazioni	0	0	140280.432	55762613	-300230608	0
P-Delta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in condizione di carico: Neve

Contributo	Fx	Fy	Fz	Mx	My	Mz
Forze applicate	0	0	-19566.68	-7777749	38529737	0
Reazioni	0	0	19566.68	7777749	-38529737	0
P-Delta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in condizione di carico: Sisma X SLV

Contributo	Fx	Fy	Fz	Mx	My	Mz
Forze applicate	227783.563	0	0	0	122743947	-90539741
Reazioni	-227783.563	0	0	0	-122743947	90539741
P-Delta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in condizione di carico: Sisma Y SLV

Contributo	Fx	Fy	Fz	Mx	My	Mz
Forze applicate	0	227783.563	0	-122743947	0	461734641
Reazioni	0	-227783.563	0	122743947	0	-461734641
P-Delta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in condizione di carico: Sisma X SLD

Contributo	Fx	Fy	Fz	Mx	My	Mz
Forze applicate	127910.39	0	0	0	68926072	-50842008
Reazioni	-127910.39	0	0	0	-68926072	50842008
P-Delta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in condizione di carico: Sisma Y SLD

Contributo	Fx	Fy	Fz	Mx	My	Mz
Forze applicate	0	127910.39	0	-68926072	0	259284109
Reazioni	0	-127910.39	0	68926072	0	-259284109
P-Delta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in condizione di carico: Terreno sisma X SLV

Contributo	Fx	Fy	Fz	Mx	My	Mz
Forze applicate	11613.08	0	0	0	1045177	-4616199
Reazioni	-11613.08	0	0	0	-1045177	4616199
P-Delta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in condizione di carico: Terreno sisma Y SLV

Contributo	Fx	Fy	Fz	Mx	My	Mz
Forze applicate	0	0	0	0	0	0
Reazioni	0	0	0	0	0	0
P-Delta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in condizione di carico: Terreno sisma X SLD

Contributo	Fx	Fy	Fz	Mx	My	Mz
Forze applicate	4242.368	0	0	0	381813	-1686341
Reazioni	-4242.368	0	0	0	-381813	1686341
P-Delta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in condizione di carico: Terreno sisma Y SLD

Contributo	Fx	Fy	Fz	Mx	My	Mz
Forze applicate	0	0	0	0	0	0
Reazioni	0	0	0	0	0	0
P-Delta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in condizione di carico: Rig Ux

Contributo	Fx	Fy	Fz	Mx	My	Mz
Forze applicate	1	0	0	0	780	-397
Reazioni	-1	0	0	0	-780	397
P-Delta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in condizione di carico: Rig Uy

Contributo	Fx	Fy	Fz	Mx	My	Mz
Forze applicate	0	1	0	-780	0	1979
Reazioni	0	-1	0	780	0	-1979
P-Delta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

Bilancio in condizione di carico: Rig Rz

Contributo	Fx	Fy	Fz	Mx	My	Mz
Forze applicate	0	0	0	0	0	1
Reazioni	0	0	0	0	0	-1
P-Delta	0	0	0	0	0	0
Totale	0	0	0	0	0	0

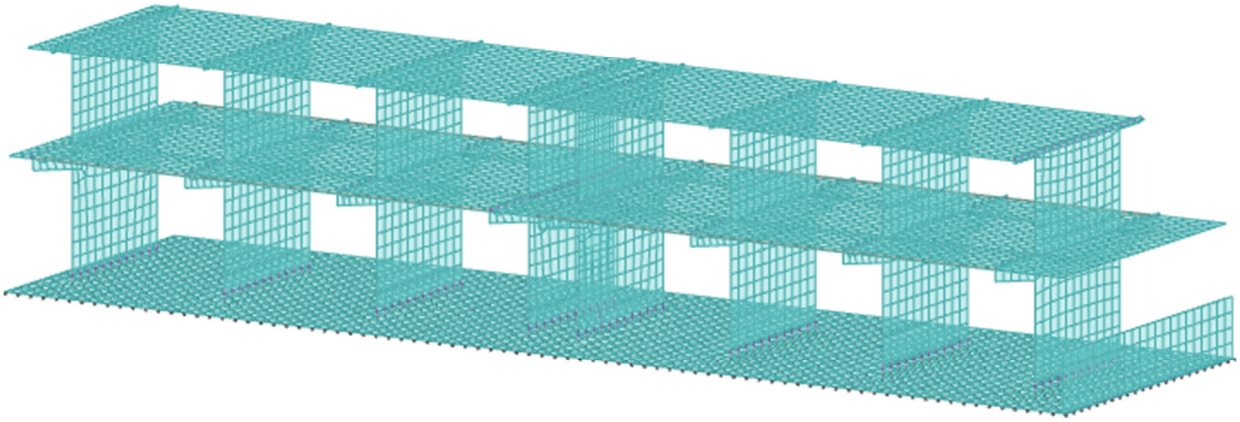
7.10 Risposta di spettro

***Spettro**: condizione elementare corrispondente allo spettro.*
***N.b.**: nome breve della condizione elementare.*
***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 della coppia attorno all'asse X. [daN*cm]*
***My**: componente della coppia attorno all'asse Y. [daN*cm]*
***Mz**: componente della coppia attorno all'asse Z. [daN*cm]*
***Max X**: massima reazione lungo l'asse X.*
***Valore**: valore massimo della reazione. [daN]*
***Angolo**: angolo d'ingresso del sisma che provoca il valore massimo della reazione. [deg]*
***Max Y**: massima reazione lungo l'asse Y.*
***Valore**: valore massimo della reazione. [daN]*
***Angolo**: angolo d'ingresso del sisma che provoca il valore massimo della reazione. [deg]*
***Max Z**: massima reazione lungo l'asse Z.*
***Valore**: valore massimo della reazione. [daN]*
***Angolo**: angolo d'ingresso del sisma che provoca il valore massimo della reazione. [deg]*

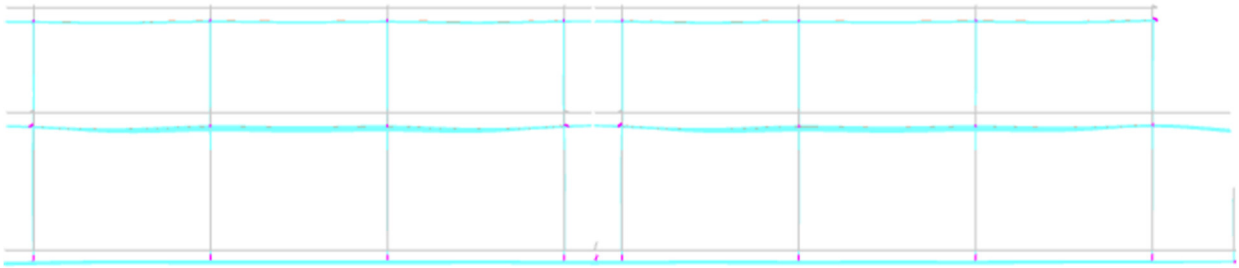
Spettro	Fx	Fy	Fz	Mx	My	Mz	Max X		Max Y		Max Z	
N.b.							Valore	Angolo	Valore	Angolo	Valore	Angolo
SLV X	208048.41	2.98	0	1562.87	1.100E08	8.269E07	208048.41	0	196251.26	90	0	0
SLV Y	2.98	196251.26	0	1.056E08	1521.64	3.688E08	208048.41	0	196251.26	90	0	0
X SLD	116818.26	1.67	0	875.7	6.177E07	4.643E07	116818.26	0	110207.45	90	0	0
Y SLD	1.67	110207.45	0	5.928E07	854.42	2.071E08	116818.26	0	110207.45	90	0	0

7.11 Statistiche soluzione

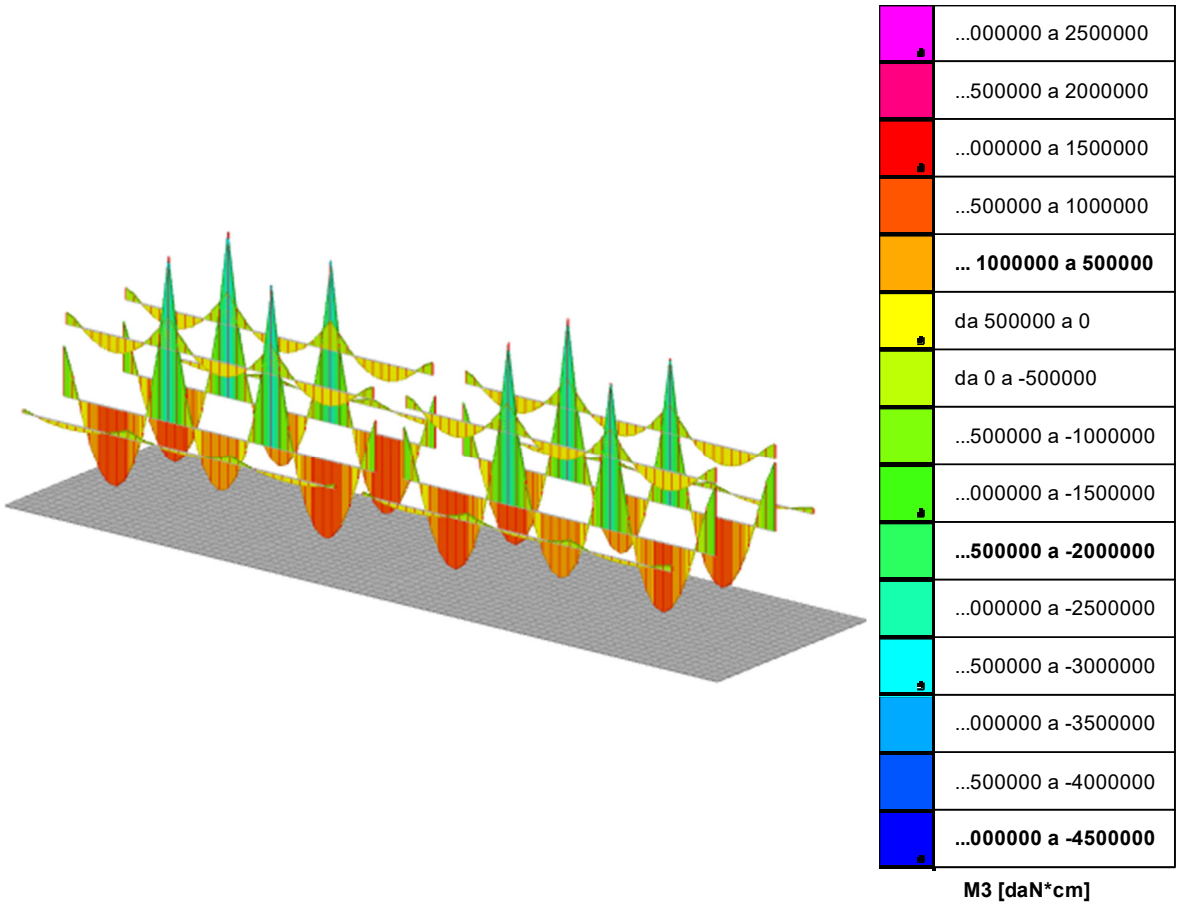
Tipo di equazioni	Lineari
Tecnica di soluzione	Intel MKL PARDISO
Numero equazioni	43350
Elemento min. diagonale	1004438.44538044
Elemento max diagonale	75275052287.4694
Rapporto max/min	74942.42442996
Elementi non nulli	1129887



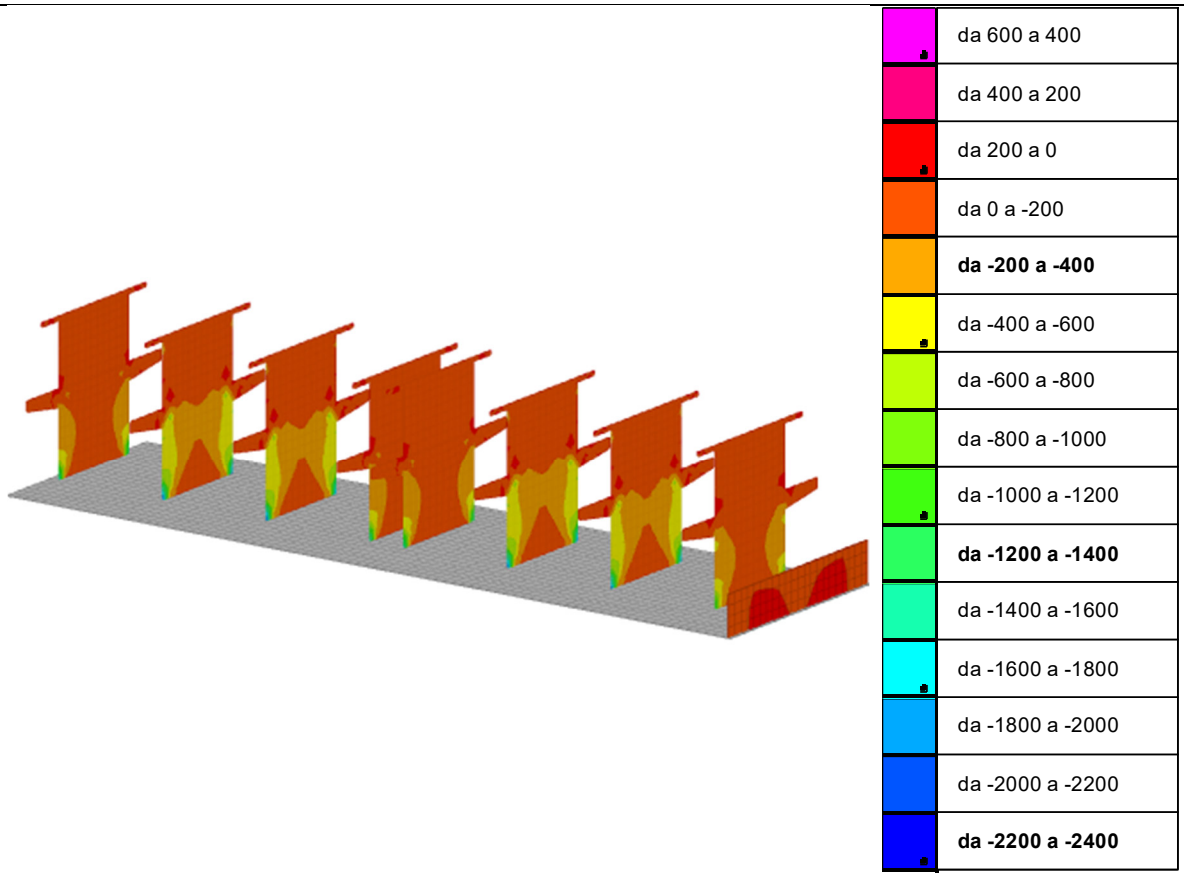
Modello



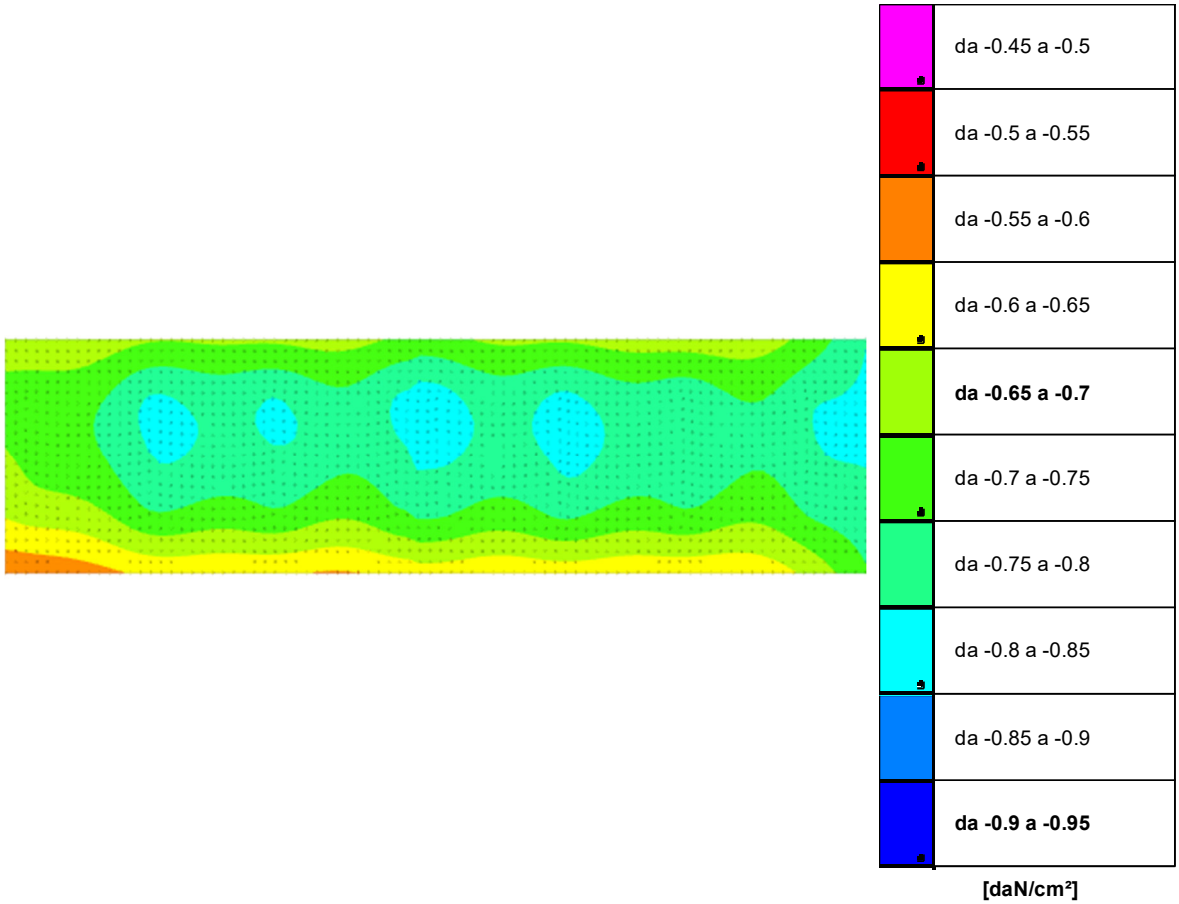
Spostamenti in SLU 10



Sollecitazioni aste M3 in SLE quasi permanente 2



Sollecitazioni gusci Fzz in SLE quasi permanente 2



Pressioni terreno in SLV fondazioni 16

8 Verifiche

8.1 Verifica risposta strutturale sismica

Le unità di misura elencate nel capitolo sono in [daN] ove non espressamente specificato.

***Contesto**: contesto di verifica.*
***Rapporto V (%)**: rapporto tra il modulo del taglio della struttura con fondazioni e quello della struttura incastrata con suolo A.*
***Rapporto N (%)**: rapporto tra lo sforzo normale della struttura con fondazioni e quello della struttura incastrata con suolo A.*
***Verifica**: stato di verifica.*
***Struttura con fondazioni**: forza risultante trasmessa all'estradosso della fondazione.*
***Fx**: componente della forza lungo l'asse X globale. [daN]*
***Fy**: componente della forza lungo l'asse Y globale. [daN]*
***Fz**: componente della forza lungo l'asse Z globale. [daN]*
***Struttura incastrata con suolo A**: forza risultante trasmessa all'estradosso della fondazione.*

Verifica risposta strutturale sismica

Verifiche condotte secondo D.M. 17-01-18 (N.T.C.)

Verifiche § 7.2.6 b)

Contesto	Struttura con fondazioni			Struttura incastrata con suolo A			Rapporto V (%)	Rapporto N (%)	Verifica
	Fx	Fy	Fz	Fx	Fy	Fz			
SLD 1	-127172	-29762	-1303972	-85221	-23298	-1303997	147.8	100	Si
SLD 2	-127172	-29762	-1303972	-85221	-23298	-1303997	147.8	100	Si
SLD 3	-127158	29758	-1304003	-85221	23298	-1303996	147.8	100	Si
SLD 4	-127158	29758	-1304003	-85221	23298	-1303996	147.8	100	Si
SLD 5	-42693	-99201	-1303943	-30087	-77660	-1303998	129.7	100	Si
SLD 6	-42693	-99201	-1303943	-30087	-77660	-1303998	129.7	100	Si
SLD 7	-42647	99200	-1304044	-30087	77660	-1303995	129.7	100	Si
SLD 8	-42647	99200	-1304044	-30087	77660	-1303995	129.7	100	Si
SLD 9	29731	-99200	-1303948	17171	-77660	-1303998	130.2	100	Si
SLD 10	29731	-99200	-1303948	17171	-77660	-1303998	130.2	100	Si
SLD 11	29777	99201	-1304050	17171	77660	-1303995	130.2	100	Si
SLD 12	29777	99201	-1304050	17171	77660	-1303995	130.2	100	Si
SLD 13	114242	-29758	-1303990	72305	-23298	-1303997	155.4	100	Si
SLD 14	114242	-29758	-1303990	72305	-23298	-1303997	155.4	100	Si
SLD 15	114256	29762	-1304020	72305	23298	-1303996	155.4	100	Si
SLD 16	114256	29762	-1304020	72305	23298	-1303996	155.4	100	Si
SLV 1	-225564	-52984	-1303950	-169234	-48209	-1303998	131.7	100	Si
SLV 2	-225564	-52984	-1303950	-169234	-48209	-1303998	131.7	100	Si
SLV 3	-225539	52977	-1304004	-169234	48210	-1303995	131.7	100	Si
SLV 4	-225539	52977	-1304004	-169234	48210	-1303995	131.7	100	Si
SLV 5	-72227	-176603	-1303900	-55291	-160698	-1304000	112.3	100	Si
SLV 6	-72227	-176603	-1303900	-55291	-160698	-1304000	112.3	100	Si
SLV 7	-72145	176601	-1304080	-55290	160698	-1303993	112.3	100	Si
SLV 8	-72145	176601	-1304080	-55290	160698	-1303993	112.3	100	Si
SLV 9	59229	-176601	-1303912	42375	-160698	-1304000	112.1	100	Si
SLV 10	59229	-176601	-1303912	42375	-160698	-1304000	112.1	100	Si
SLV 11	59311	176603	-1304092	42375	160698	-1303992	112.1	100	Si
SLV 12	59311	176603	-1304092	42375	160698	-1303992	112.1	100	Si
SLV 13	212624	-52977	-1303989	156318	-48210	-1303997	134	100	Si
SLV 14	212624	-52977	-1303989	156318	-48210	-1303997	134	100	Si
SLV 15	212648	52984	-1304043	156318	48209	-1303995	134	100	Si
SLV 16	212648	52984	-1304043	156318	48209	-1303995	134	100	Si

8.2 Verifica regolarità strutturale

Le unità di misura elencate nel capitolo sono in [cm, daN] ove non espressamente specificato.

***Livello**:*
***Descr**: descrizione livello.*
***Quota**: quota livello. [cm]*
***Q**: quota livello. [cm]*
***Qinf**: quota livello precedente. [cm]*
***A1**: a1 (Distribuzione masse).*
***A1n**: a1 numeratore (distanza tra centro massa vs. centro rigidezza [se presente] o centro dell'ingombro del piano). [cm]*
***A1d**: a1 denominatore (ingombro del piano nella medesima direzione [x o y globale]). [cm]*
***A1r**: a1 rapporto (distanza centro massa/rigidezza su ingombro del piano).*
***A2**: a2 (Distribuzione rigidezze).*
***A2n**: a2 numeratore (rigidezza max [x o y globale]).*
***A2d**: a2 denominatore (rigidezza min [x o y globale]).*
***A2r**: a2 rapporto (rigidezza max/min).*
***A3**: a3 (Forma compatta).*
***A3n**: a3 numeratore (area convessa). [cm²]*
***A3d**: a3 denominatore (area piano). [cm²]*
***A3r**: a3 rapporto (area convessa/area piano).*
***B**: b (Rapporto lati).*
***Bn**: b numeratore (lato max [x o y globale]). [cm]*
***Bd**: b denominatore (lato min [x o y globale]). [cm]*
***Br**: b rapporto (lato max/min).*
***C**: c (Rapporto rigidezze piano).*
***Cn**: c numeratore (rigidezza elementi verticali).*
***Cd**: c denominatore (rigidezza piano).*

***Cr**: c rapporto (rigidezza elementi verticali/rigidezza piano).*
***E1**: e1 (Variazione masse).*
***E1n**: e1 numeratore (massa max). [daN]*
***E1d**: e1 denominatore (massa min). [daN]*
***E1r**: e1 rapporto (massa max/min).*
***E2**: e2 (Riduzione rigidezze).*
***E2n**: e2 numeratore (rigidezza relativa alla traslazione KUmax). [daN/cm]*
***E2d**: e2 denominatore (rigidezza relativa alla traslazione KUmin). [daN/cm]*
***E2r**: e2 rapporto (variazione massima in decremento Kmax/Kmin).*
***E3**: e3 (Incremento rigidezze).*
***E3n**: e3 numeratore (rigidezza relativa alla traslazione KUmax). [daN/cm]*
***E3d**: e3 denominatore (rigidezza relativa alla traslazione KUmin). [daN/cm]*
***E3r**: e3 rapporto (variazione massima in incremento Kmax/Kmin).*
***F**: f (Rapporto Capacità/Domanda).*
***Fn**: f numeratore (rapporto capacità/domanda massimo [c/d max]). [daN]*
***Fd**: f denominatore (rapporto capacità/domanda minimo [c/d min]). [daN]*
***Fr**: f rapporto (variazione massima [rapporto (c/d max)/(c/d min)]).*
***G1**: g1 (Rastremazione di piano).*
***G1n**: g1 numeratore (L1). [cm]*
***G1d**: g1 denominatore (L2). [cm]*
***G1r**: g1 rapporto (L1/L2).*
***G2**: g2 (Rastremazione totale).*
***G2n**: g2 numeratore (L0). [cm]*
***G2d**: g2 denominatore (Li). [cm]*
***G2r**: g2 rapporto (L0/Li).*

Verifica regolarità strutturale

Controllo regolarità edificio secondo D.M. 17-01-18 (N.T.C.) §7.2.1 - §C7.2.1

Avvertenze

La seguente procedura valuta la regolarità della costruzione secondo quanto indicato nelle NTC 2018 §7.2.1.
Tali valutazioni sono a carattere puramente informativo e vengono condotte sulla base del modello e delle verifiche presenti alla sua generazione, con le limitazioni indicate nella manualistica.
In ogni caso l'impostazione di regolarità della costruzione, in pianta ed elevazione, va indicata nelle preferenze di analisi dall'utente utilizzatore del software.

Sintesi dei risultati

Orizzontamenti considerati nella valutazione
Livelli di fondazione o di struttura scatolare non dissipativa: Fondazione(L1),
Livelli di elevazione considerati: Piano 1(L2), Copertura(L3),
Regolarità in pianta - NO
L'edificio risulta NON regolare in pianta, in base alle condizioni indicate in NTC 2018 §7.2.1
Ok - Criterio A1 (Distribuzione masse) rispettato, con rapporto massimo 0,01 (limite=0,2) al livello Piano 1
No - Criterio A2 (Distribuzione rigidezze) NON rispettato, con rapporto massimo 8551836.8/577912.7=14.8 (limite=1) al livello Piano 1
Ok - Criterio A3 (Forma compatta) rispettato, con rapporto massimo 1 (limite=1,05) al livello Copertura
No - Criterio B (Rapporto lati) NON rispettato, con rapporto massimo 3851.5/835=4.6 (limite=4) al livello Copertura
Ok - Criterio C (Rapporto rigidezze piano) rispettato, con rapporto massimo 0 (limite=0,1) al livello Piano 1
Regolarità in altezza - NO
L'edificio risulta NON regolare in altezza, in base alle condizioni indicate in NTC 2018 §7.2.1
No - Criterio D (Altezza elementi sismoresistenti) NON rispettato, con rapporto massimo 810/210=3.9 (limite=1,01)
No - Criterio E1 (Variazione masse) NON rispettato, con rapporto massimo 707872.9/228449.9=3.1 (limite=1,25) tra il livello Copertura ed il precedente
No - Criterio E2 (Riduzione rigidezze) NON rispettato, con rapporto massimo 8551836.8/60231.9=142 (limite=1) tra il livello Copertura ed il precedente
Ok - Criterio E3 (Incremento rigidezze) rispettato, con rapporto massimo 1 (limite=1,1) tra il livello Copertura ed il precedente
N.V. - Criterio F (Rapporto Capacità/Domanda) non valutabile tra il livello Copertura ed il precedente
No - Criterio G1 (Rastremazione di piano) NON rispettato, con rapporto massimo 122/1079=0.1 (limite=0,1) tra il livello Copertura ed il precedente
Ok - Criterio G2 (Rastremazione totale) rispettato, con rapporto massimo 0,11 (limite=0,3) tra il livello Copertura ed il precedente

Valori per piano

Verifiche di regolarità in pianta

Livello		A1			A2			A3			B			C		
Descr	Quota	A1n	A1d	A1r	A2n	A2d	A2r	A3n	A3d	A3r	Bn	Bd	Br	Cn	Cd	Cr
Piano 1	430	52	4097	0.01	8551837	577913	14.8	4420125	4409334	1	4097	1079	3.8	0	+∞	0
Copertura	780	8	3851	0	180825	60232	3	3216002	3207652	1	3851	835	4.61	0	+∞	0

Verifiche di regolarità in elevazione

Rapporto di regolarità per la condizione D (Altezza elementi sismoresistenti): 810/210=4.

Livello			E1			E2			E3			F			G1			G2		
Descr	Q	Qinf	E1n	E1d	E1r	E2n	E2d	E2r	E3n	E3d	E3r	Fn	Fd	Fr	G1n	G1d	G1r	G2n	G2d	G2r
Copertura	780	430	707873	228450	3.1	8551837	60232	141.98	8551837	8551837	1				122	1079	0.11	122	1079	0.11

8.3 Verifiche travate C.A.

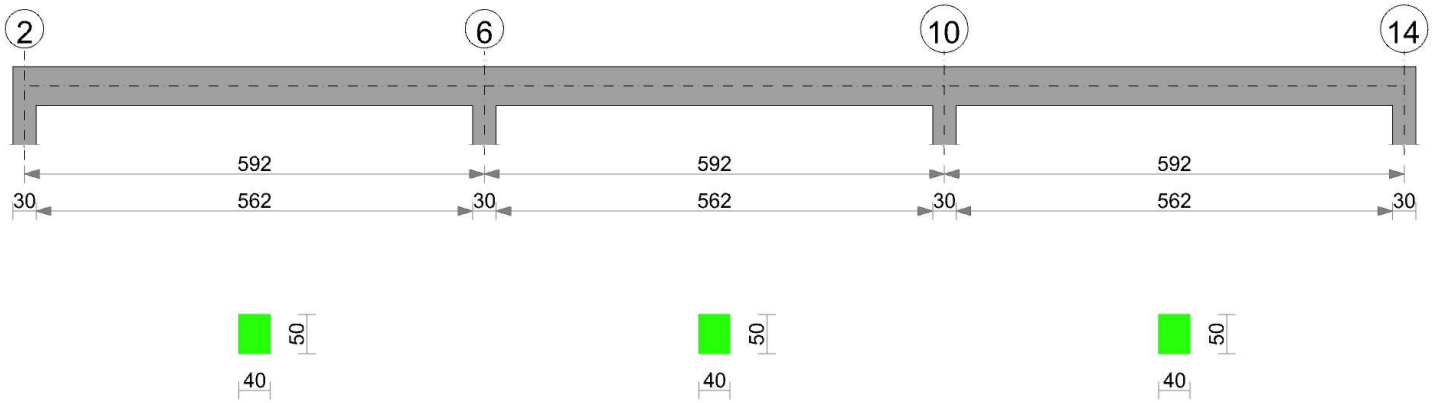
Le unità di misura elencate nel capitolo sono in [cm, daN] ove non espressamente specificato.

***N°**: indice progressivo della sezione.*
***Descrizione**: descrizione della sezione.*
***Tipo**: tipo di sezione.*
***Base**: base della sezione. [cm]*
***Altezza**: altezza della sezione. [cm]*
***Copriferro sup.**: distanza del bordo della staffa dalla superficie superiore del getto. [cm]*
***Copriferro inf.**: distanza del bordo della staffa dalla superficie inferiore del getto. [cm]*
***Copriferro lat.**: distanza del bordo della staffa dalle superfici laterali del getto. [cm]*
***x**: distanza da asse appoggio sinistro. [cm]*
***A sup.**: area efficace di armatura longitudinale superiore. [cm²]*

***C.b. sup.**: distanza dal bordo del baricentro dell'armatura longitudinale superiore. [cm]*
***A inf.**: area efficace di armatura longitudinale inferiore. [cm²]*
***C.b. inf.**: distanza dal bordo del baricentro dell'armatura longitudinale inferiore. [cm]*
***M+ela**: momento flettente desunto dal solutore che tende le fibre inferiori. [daN*cm]*
***Comb.**: combinazione.*
***M+des**: momento flettente di progetto che tende le fibre inferiori. [daN*cm]*
***M+ult**: momento ultimo per trazione delle fibre inferiori. [daN*cm]*
***x/d**: rapporto tra posizione asse neutro e altezza utile.*
***coeff**: coefficiente di sicurezza.*
***M-ela**: momento flettente desunto dal solutore che tende le fibre superiori. [daN*cm]*
***M-des**: momento flettente di progetto che tende le fibre superiori. [daN*cm]*
***M-ult**: momento ultimo per trazione delle fibre superiori. [daN*cm]*
***Verifica**: stato di verifica.*
***A st**: area di staffe per unità di lunghezza. [cm²]*
***A sl**: area di armatura longitudinale tesa per valutazione resistenza taglio in assenza di armature a taglio. [cm²]*
***A sag**: area equivalente di barre piegate per unità di lunghezza. [cm²]*
***Vela**: taglio elastico. [daN]*
***Vdes**: taglio di progetto. [daN]*
***Vrd**: resistenza a taglio della sezione senza armature. [daN]*
***Vrcd**: sforzo di taglio che produce il cedimento delle bielle. [daN]*
***Vrsd**: resistenza a taglio per la presenza delle armature. [daN]*
***Vult**: taglio ultimo. [daN]*
***cotgθ**: cotg dell'angolo di inclinazione dei puntoni in calcestruzzo.*
***Rara**: famiglia di combinazione di verifica.*
***Mela**: momento elastico. [daN*cm]*
***Mdes**: momento di progetto. [daN*cm]*
***σ c**: tensione di compressione nel calcestruzzo. [daN/cm²]*
***σ c lim.**: tensione limite di compressione nel calcestruzzo. [daN/cm²]*
***σ f.**: tensione di trazione nell'acciaio. [daN/cm²]*
***σ f lim.**: tensione limite di trazione nell'acciaio. [daN/cm²]*
***Elastica+**: massima freccia a sezione interamente reagente di solo calcestruzzo. [cm]*
***Elastica-**: minima freccia a sezione interamente reagente di solo calcestruzzo. [cm]*
***Fess.+**: massima freccia a sezione fessurata ed omogeneizzata. [cm]*
***Fess.-**: minima freccia a sezione fessurata ed omogeneizzata. [cm]*
***Quasi permanente**: famiglia di combinazione di verifica.*
***σ FRP**: tensione di trazione nell'FRP. [daN/cm²]*
***σ FRP lim.**: tensione limite di trazione nell'FRP. [daN/cm²]*
***Fess. viscosa+**: massima freccia a sezione fessurata ed omogeneizzata a viscosità esaurita. [cm]*
***Fess. viscosa-**: minima freccia a sezione fessurata ed omogeneizzata a viscosità esaurita. [cm]*
***l/f**: rapporto luce su freccia in combinazione quasi permanente.*
***Frequente**: famiglia di combinazione di verifica.*
***Ascissa**: ascissa sezione di verifica. [cm]*
***Lv**: luce di taglio considerata. [cm]*
***x**: altezza della zona compressa della sezione. [cm]*
***h**: altezza totale della sezione. [cm]*
***ρ,tot**: percentuale geometrica totale di armatura longitudinale.*
***θ,m**: rotazione massima per la combinazione considerata.*
***θ,y**: rotazione di prima plasticizzazione.*
***μΔ,pl**: parte plastica della domanda di duttilità.*
***Vrd**: resistenza a taglio del calcestruzzo non staffato per la verifica nella direzione considerata. [daN]*
***VRcd(cotθ=1)**: resistenza a taglio delle bielle compresse per la verifica nella direzione considerata consideranto il valore di cotθ unitario. [daN]*
***VRsd**: resistenza a taglio delle staffe per la verifica nella direzione considerata. [daN]*
***Vw**: contributo dell'armatura trasversale per la resistenza a taglio. [daN]*
***Vr**: resistenza a taglio in condizioni cicliche (formula [C8.7.2.8]). [daN]*
***Vu**: resistenza a taglio in condizioni sismiche. [daN]*
***Ved**: sollecitazione tagliante. [daN]*
***Ned**: sollecitazione di sforzo normale. [daN]*
***Comb.**: combinazione di verifica.*
***x**: ascissa relativa. [cm]*
***taglio negativo**: valori per taglio negativo.*
***contr. grav.**: contributo azioni gravitazionali. [daN]*
***contr. mom. res.**: contributo dei momenti resistenti. [daN]*
***taglio positivo**: valori per taglio positivo.*
***campata**: campata.*
***appoggio**: appoggio.*
***momento positivo**: momento resistente positivo. [daN*cm]*
***momento negativo**: momento resistente negativo. [daN*cm]*
***Bordo**: bordo interessato dalla fessura.*
***Rara**: famiglia di combinazione per verifica inferiore.*
***Dmax**: distanza massima tra le fessure. [cm]*
***Esm**: dilatazione media delle barre di armatura.*
***Wd**: valore di calcolo di apertura delle fessure. [cm]*
***Comb**: combinazione.*
***Frequente**: famiglia di combinazione per verifica inferiore.*
***Quasi permanente**: famiglia di combinazione per verifica inferiore.*

Trave a "Copertura" 2-14

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Elenco delle sezioni

N°	Descrizione	Tipo	Base	Altezza	Copriferro sup.	Copriferro inf.	Copriferro lat.
1	R 40x50	Rettangolare	40	50	3.5	3.5	3.5

Diagramma verifica stato limite ultimo flessione

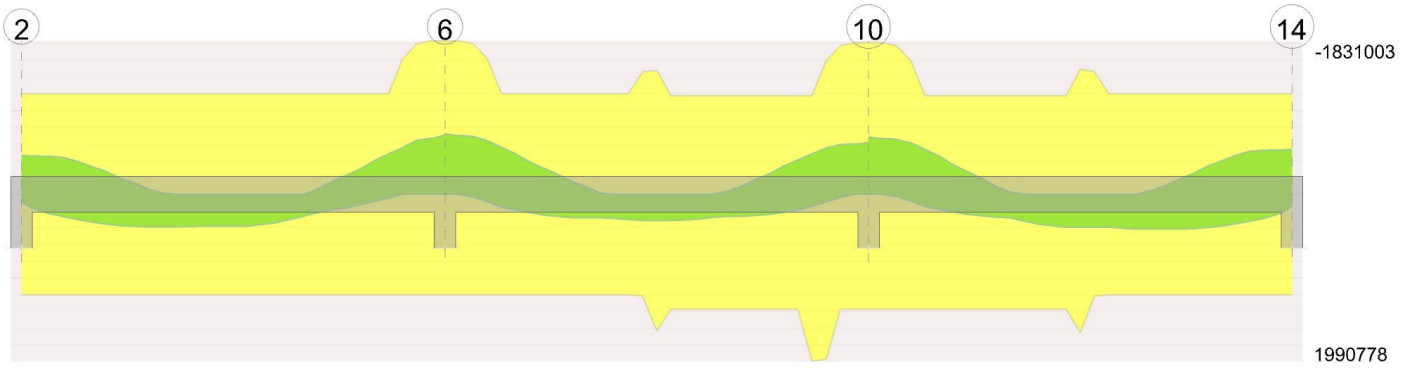


Diagramma verifica stato limite ultimo taglio

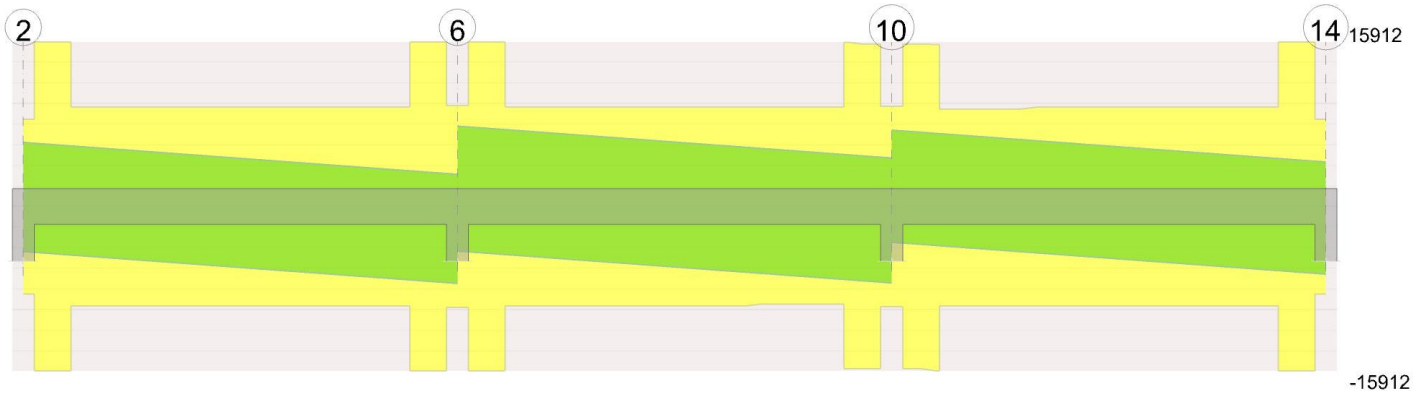
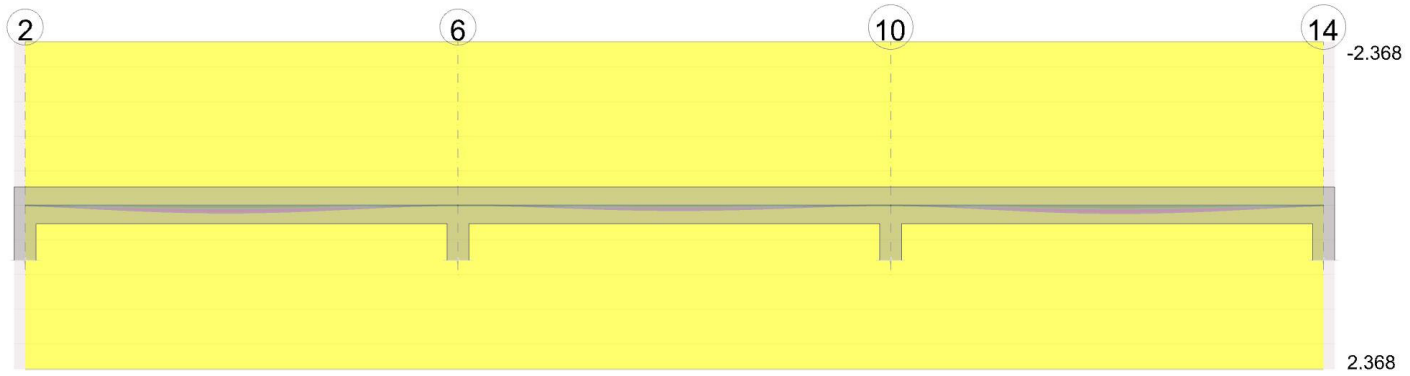


Diagramma verifica stato limite esercizio quasi permanente freccia



Output campate

Campata 1 tra i fili 2 - 6, sezione R 40x50, aste 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	7.1	5.1	7.1	5.1							-265605	SLU 8	-248295	-1199496	0.109	4.83	Si
15	7.1	5.1	7.1	5.1							-231715	SLU 8	-231715	-1199496	0.109	5.18	Si
296	7.1	5.1	7.1	5.1	381784	SLU 7	382904	1199496	0.109	3.13							Si
577	11.12	5.1	7.1	5.1							-669461	SLU 8	-669461	-1831003	0.132	2.74	Si
592	11.12	5.1	7.1	5.1							-752741	SLU 8	-710736	-1831003	0.132	2.58	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	7.1	5.1	7.1	5.1	91071	SLV 15	91071	1199496	0.109	13.17	-469513	SLV 1	-462793	-1199496	0.109	2.59	Si
15	7.1	5.1	7.1	5.1	125576	SLV 15	169916	1199496	0.109	7.06	-456634	SLV 1	-456634	-1199496	0.109	2.63	Si
296	7.1	5.1	7.1	5.1	315464	SLV 13	338439	1199496	0.109	3.54							Si
513	7.1	5.1	7.1	5.1	-30417	SLV 3	44931	1199496	0.109	26.7	-401767	SLV 13	-482009	-1199496	0.109	2.49	Si
577	11.12	5.1	7.1	5.1							-611350	SLV 13	-611350	-1831003	0.132	3	Si
592	11.12	5.1	7.1	5.1							-646260	SLV 13	-628406	-1831003	0.132	2.91	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	7.1	5.1	7.1	5.1							-346480	SLD 1	-337386	-1199496	0.109	3.56	Si
15	7.1	5.1	7.1	5.1	-2204	SLD 15	35772	1199496	0.109	33.53	-328854	SLD 1	-328854	-1199496	0.109	3.65	Si
296	7.1	5.1	7.1	5.1	290891	SLD 13	304115	1199496	0.109	3.94							Si
513	7.1	5.1	7.1	5.1							-320235	SLD 13	-396654	-1199496	0.109	3.02	Si
577	11.12	5.1	7.1	5.1							-548017	SLD 13	-548017	-1831003	0.132	3.34	Si
592	11.12	5.1	7.1	5.1							-593195	SLD 13	-570263	-1831003	0.132	3.21	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	7.1	0	2323	SLU 7	2323	8481	76098	0	8481	1	3.65	Si
15	0.101	7.1	0	2226	SLU 7	2226	8481	76098	15912	15912	1	7.15	Si
296	0.061	7.1	0	-121	SLU 8	-121	-8481	-76098	-9644	-9644	1	79.53	Si
577	0.101	9.74	0	-5509	SLU 7	-5509	-9422	-76072	-15906	-15906	1	2.89	Si
592	0	10.9	0	-5607	SLU 7	-5607	-9781	-76072	0	-9781	1	1.74	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	7.1	0	2344	Ger.	6236	8481	76098	0	8481	1	1.36	Si
0	0	7.1	0	890	Ger.	-4392	-8481	-76098	0	-8481	1	1.93	Si
15	0.101	7.1	0	2269	Ger.	6156	8481	76098	15912	15912	1	2.58	Si
15	0.101	7.1	0	815	Ger.	-4472	-8481	-76098	-15912	-15912	1	3.56	Si
296	0.061	7.1	0	1017	Ger.	4696	8481	76098	9644	9644	1	2.05	Si
296	0.061	7.1	0	-1195	Ger.	-5932	-8481	-76098	-9644	-9644	1	1.63	Si
577	0.101	9.74	0	-2262	Ger.	3237	9422	76072	15906	15906	1	4.91	Si
577	0.101	9.74	0	-5441	Ger.	-7391	-9422	-76072	-15906	-15906	1	2.15	Si
592	0	10.9	0	-2337	Ger.	3157	9781	76072	0	9781	1	3.1	Si
592	0	10.9	0	-5516	Ger.	-7471	-9781	-76072	0	-9781	1	1.31	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	7.1	0	2025	SLD 13	2025	8481	76098	0	8481	1	4.19	Si
15	0.101	7.1	0	1950	SLD 13	1950	8481	76098	15912	15912	1	8.16	Si
296	0.061	7.1	0	531	SLD 1	531	8481	76098	9644	9644	1	18.15	Si
296	0.061	7.1	0	-709	SLD 15	-709	-8481	-76098	-9644	-9644	1	13.6	Si
577	0.101	9.74	0	-4744	SLD 1	-4744	-9422	-76072	-15906	-15906	1	3.35	Si
592	0	10.9	0	-4819	SLD 1	-4819	-9781	-76072	0	-9781	1	2.03	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-202010	3	-188845	9.4	199.2	141.2	3600	-189221	2	-177094	8.8	149.4			Si
15	-176241	3	-176241	8.8	199.2	131.8	3600	-165529	2	-165529	8.3	149.4			Si
296	289468	2	290318	14.5	199.2	217.1	3600	262090	1	262868	13.1	149.4			Si
577	-508268	3	-508268	24.7	199.2	355.6	3600	-467220	2	-467220	22.7	149.4			Si
592	-571574	3	-539640	26.3	199.2	377.6	3600	-525561	2	-496110	24.1	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.003	0.003	0.003	0.002	0.003	0.003	0.002	0.002	0.003	0.003	0.006	1	0.006	1	9999	Si
276	0.052	0.045	0.046	0.04	0.048	0.046	0.042	0.04	0.047	0.046	0.108	1	0.106	1	5504	Si
296	0.052	0.045	0.046	0.04	0.047	0.045	0.042	0.04	0.046	0.046	0.107	1	0.105	1	5557	Si
577	0	0	0	0	0	0	0	0	0	0	0	1	0	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
30	415	4.9	50	0.007	0.00088	0.01283	0	8481	76098	15912	15912	15402	15912	6156	-528	SLV 13	Si
592	177	6	50	0.01	0.00041	0.01543	0	9422	76072	15906	15906	18542	18542	-7391	-524	SLV 15	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	1539	-4392	-5392	890	1539	6236	4269	2344
15	1459	-4472	-5392	815	1459	6156	4269	2269
296	0	-5932	-5392	-1195	0	4696	4269	1017
577	-1459	-7391	-5392	-5441	-1459	3237	4269	-2262
592	-1539	-7471	-5392	-5516	-1539	3157	4269	-2337

Campata 2 tra i fili 6 - 10, sezione R 40x50, aste 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.1	7.1	5.1							-720830	SLU 8	-678383	-1831003	0.132	2.7	Si
15	11.12	5.1	7.1	5.1							-636667	SLU 8	-636667	-1831003	0.132	2.88	Si
296	8.99	5.7	9.7	5.1	313444	SLU 8	313444	1629644	0.131	5.2							Si
577	11.12	5.6	8.04	5.1							-575345	SLU 7	-575345	-1806447	0.133	3.14	Si
592	11.12	5.6	8.04	5.1							-656475	SLU 7	-615545	-1806447	0.133	2.93	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.1	7.1	5.1							-741724	SLV 1	-721445	-1831003	0.132	2.54	Si
15	11.12	5.1	7.1	5.1							-701818	SLV 1	-701818	-1831003	0.132	2.61	Si
79	7.1	5.1	7.1	5.1	87649	SLV 13	154150	1199496	0.109	7.78	-482853	SLV 3	-562242	-1199496	0.109	2.13	Si
296	8.99	5.7	9.7	5.1	231062	SLV 13	255288	1629644	0.131	6.38							Si
577	11.12	5.6	8.04	5.1							-602125	SLV 13	-602125	-1806447	0.133	3	Si
592	11.12	5.6	8.04	5.1							-633992	SLV 13	-617768	-1806447	0.133	2.92	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.1	7.1	5.1							-637194	SLD 1	-612726	-1831003	0.132	2.99	Si
15	11.12	5.1	7.1	5.1							-588866	SLD 1	-588866	-1831003	0.132	3.11	Si
79	7.1	5.1	7.1	5.1	-37469	SLD 13	36529	1199496	0.109	32.84	-357735	SLD 3	-432034	-1199496	0.109	2.78	Si
296	8.99	5.7	9.7	5.1	225765	SLD 13	235865	1629644	0.131	6.91							Si
577	11.12	5.6	8.04	5.1							-511722	SLD 13	-511722	-1806447	0.133	3.53	Si
592	11.12	5.6	8.04	5.1							-554554	SLD 13	-532852	-1806447	0.133	3.39	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5660	SLU 8	5660	9781	76072	0	9781	1	1.73	Si
15	0.101	9.74	0	5562	SLU 8	5562	9422	76072	15906	15906	1	2.86	Si
296	0.061	7.1	0	-272	SLU 7	-272	-8479	-76067	-9640	-9640	1	35.48	Si
577	0.101	9.74	0	-5360	SLU 8	-5360	-9368	-75134	-15710	-15710	1	2.93	Si
592	0	10.9	0	-5458	SLU 8	-5458	-9724	-75134	0	-9724	1	1.78	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5277	Ger.	7804	9781	76072	0	9781	1	1.25	Si
0	0	10.9	0	2678	Ger.	-4350	-9781	-76072	0	-9781	1	2.25	Si
15	0.101	9.74	0	5202	Ger.	7729	9422	76072	15906	15906	1	2.06	Si
15	0.101	9.74	0	2603	Ger.	-4425	-9422	-76072	-15906	-15906	1	3.59	Si
296	0.061	7.1	0	1063	Ger.	6269	8479	76067	9640	9640	1	1.54	Si
296	0.061	7.1	0	-1393	Ger.	-5884	-8479	-76067	-9640	-9640	1	1.64	Si
577	0.101	9.74	0	-2075	Ger.	4810	9368	75134	15710	15710	1	3.27	Si
577	0.101	9.74	0	-5431	Ger.	-7344	-9368	-75134	-15710	-15710	1	2.14	Si
592	0	10.9	0	-2150	Ger.	4730	9724	75134	0	9724	1	2.06	Si
592	0	10.9	0	-5506	Ger.	-7424	-9724	-75134	0	-9724	1	1.31	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	4707	SLD 13	4707	9781	76072	0	9781	1	2.08	Si
15	0.101	9.74	0	4632	SLD 13	4632	9422	76072	15906	15906	1	3.43	Si
296	0.061	7.1	0	525	SLD 3	525	8479	76067	9640	9640	1	18.37	Si
296	0.061	7.1	0	-854	SLD 13	-854	-8479	-76067	-9640	-9640	1	11.28	Si
577	0.101	9.74	0	-4695	SLD 1	-4695	-9368	-75134	-15710	-15710	1	3.35	Si
592	0	10.9	0	-4770	SLD 1	-4770	-9724	-75134	0	-9724	1	2.04	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente						Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-547455	3	-515192	25.1	199.2	360.5	3600	-503373	2	-473543	23	149.4			Si
15	-483490	3	-483490	23.5	199.2	338.3	3600	-444274	2	-444274	21.6	149.4			Si
296	238073	3	238073	11.4	199.2	169.2	3600	218983	2	218983	10.5	149.4			Si
577	-436662	2	-436662	21	199.2	306.2	3600	-398236	1	-398236	19.2	149.4			Si
592	-498329	2	-467214	22.5	199.2	327.6	3600	-455090	1	-426382	20.5	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	I/f	
15	0	0	-0.001	-0.001	0	0	-0.001	-0.001	0	0	-0.001	1	-0.001	1	9999	Si
296	0.035	0.032	0.03	0.027	0.033	0.032	0.028	0.027	0.032	0.032	0.071	2	0.071	2	8312	Si
577	0	0	0	0	0	0	0	0	0	0	0	2	0	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
622	202.8	6	50	0.01	0.00061	0.01495	0	9422	76072	15906	15906	17689	17689	7729	-947	SLV 1	Si
1184	190.6	5.9	50	0.01	0.0005	0.0153	0	9368	75134	15710	15710	18011	18011	-7344	-684	SLV 13	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	1534	-4350	-5349	2678	1534	7804	5699	5277
15	1459	-4425	-5349	2603	1459	7729	5699	5202
296	0	-5884	-5349	-1393	0	6269	5699	1063
577	-1459	-7344	-5349	-5431	-1459	4810	5699	-2075
592	-1539	-7424	-5349	-5506	-1539	4730	5699	-2150

Campata 3 tra i fili 10 - 14, sezione R 40x50, aste 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.6	8.04	5.1							-697293	SLU 7	-657003	-1806447	0.133	2.75	Si
15	11.12	5.6	8.04	5.1							-617444	SLU 7	-617444	-1806447	0.133	2.93	Si
296	9.09	5.7	9.84	5.1	393775	SLU 7	393775	1652284	0.132	4.2							Si
577	7.1	5.1	7.1	5.1							-243848	SLU 8	-243848	-1199496	0.109	4.92	Si
592	7.1	5.1	7.1	5.1							-277921	SLU 8	-260519	-1199496	0.109	4.6	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.6	8.04	5.1							-699315	SLV 1	-682227	-1806447	0.133	2.65	Si
15	11.12	5.6	8.04	5.1							-665682	SLV 1	-665682	-1806447	0.133	2.71	Si
79	7.1	5.9	8.04	5.1	80693	SLV 13	146701	1372552	0.125	9.36	-454520	SLV 3	-537777	-1175730	0.112	2.19	Si
296	9.09	5.7	9.84	5.1	317158	SLV 1	344841	1652284	0.132	4.79							Si
577	7.1	5.1	7.1	5.1	180175	SLV 3	226781	1199496	0.109	5.29	-529185	SLV 13	-529185	-1199496	0.109	2.27	Si
592	7.1	5.1	7.1	5.1	143979	SLV 3	143979	1199496	0.109	8.33	-540646	SLV 13	-534634	-1199496	0.109	2.24	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.6	8.04	5.1							-604657	SLD 1	-582781	-1806447	0.133	3.1	Si
15	11.12	5.6	8.04	5.1							-561455	SLD 1	-561455	-1806447	0.133	3.22	Si
79	7.1	5.9	8.04	5.1	-36724	SLD 13	38117	1372552	0.125	36.01	-337104	SLD 3	-414327	-1175730	0.112	2.84	Si
296	9.09	5.7	9.84	5.1	296147	SLD 1	311383	1652284	0.132	5.31							Si
577	7.1	5.1	7.1	5.1	24547	SLD 3	63876	1199496	0.109	18.78	-373557	SLD 13	-373557	-1199496	0.109	3.21	Si
592	7.1	5.1	7.1	5.1							-390445	SLD 13	-381720	-1199496	0.109	3.14	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5372	SLU 7	5372	9724	75134	0	9724	1	1.81	Si
15	0.101	9.74	0	5275	SLU 7	5275	9368	75134	15710	15710	1	2.98	Si
296	0.061	7.1	0	33	SLU 7	33	8479	76069	9640	9640	1	289.2	Si
577	0.101	7.1	0	-2237	SLU 7	-2237	-8481	-76098	-15912	-15912	1	7.11	Si
592	0	7.1	0	-2334	SLU 7	-2334	-8481	-76098	0	-8481	1	3.63	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5202	Ger.	7418	9724	75134	0	9724	1	1.31	Si
0	0	10.9	0	2267	Ger.	-3499	-9724	-75134	0	-9724	1	2.78	Si
15	0.101	9.74	0	5127	Ger.	7343	9368	75134	15710	15710	1	2.14	Si
15	0.101	9.74	0	2192	Ger.	-3574	-9368	-75134	-15710	-15710	1	4.4	Si
296	0.061	7.1	0	1431	Ger.	5884	8479	76069	9640	9640	1	1.64	Si
296	0.061	7.1	0	-1397	Ger.	-5033	-8479	-76069	-9640	-9640	1	1.92	Si
577	0.101	7.1	0	-722	Ger.	4424	8481	76098	15912	15912	1	3.6	Si
577	0.101	7.1	0	-2380	Ger.	-6492	-8481	-76098	-15912	-15912	1	2.45	Si
592	0	7.1	0	-797	Ger.	4344	8481	76098	0	8481	1	1.95	Si
592	0	7.1	0	-2455	Ger.	-6572	-8481	-76098	0	-8481	1	1.29	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	4558	SLD 13	4558	9724	75134	0	9724	1	2.13	Si
15	0.101	9.74	0	4483	SLD 13	4483	9368	75134	15710	15710	1	3.5	Si
296	0.061	7.1	0	810	SLD 3	810	8479	76069	9640	9640	1	11.89	Si
296	0.061	7.1	0	-776	SLD 13	-776	-8479	-76069	-9640	-9640	1	12.42	Si
577	0.101	7.1	0	-2016	SLD 1	-2016	-8481	-76098	-15912	-15912	1	7.89	Si
592	0	7.1	0	-2091	SLD 1	-2091	-8481	-76098	0	-8481	1	4.05	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente						Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-529437	2	-498825	24	199.2	349.8	3600	-484312	1	-456171	22	149.4			Si
15	-468775	2	-468775	22.6	199.2	328.7	3600	-428591	1	-428591	20.6	149.4			Si
296	298674	2	298674	14.3	199.2	211.6	3600	271184	1	271184	12.9	149.4			Si
577	-185434	3	-185434	9.2	199.2	138.7	3600	-174505	2	-174505	8.7	149.4			Si
592	-211342	3	-198107	9.9	199.2	148.2	3600	-198333	2	-186138	9.3	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	I/f	
15	0.001	0.001	0.001	0	0.001	0.001	0.001	0	0.001	0.001	0.001	1	0.001	1	9999	Si

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	I/f	
296	0.055	0.048	0.048	0.043	0.05	0.049	0.044	0.043	0.049	0.049	0.112	1	0.111	1	5263	Si
316	0.055	0.049	0.048	0.043	0.051	0.049	0.045	0.043	0.05	0.049	0.113	1	0.112	1	5232	Si
577	0.003	0.003	0.003	0.002	0.003	0.003	0.002	0.002	0.003	0.003	0.006	1	0.006	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
1214	184.1	5.9	50	0.01	0.00055	0.01531	0	9368	75134	15710	15710	18301	18301	7343	-1233	SLV 1	Si
1776	407.9	4.9	50	0.007	0.00101	0.01239	0	8481	76098	15912	15912	15436	15912	-6492	-1233	SLV 1	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	1534	-3499	-4575	2267	1534	7418	5349	5202
15	1459	-3574	-4575	2192	1459	7343	5349	5127
296	0	-5033	-4575	-1397	0	5884	5349	1431
577	-1459	-6492	-4575	-2380	-1459	4424	5349	-722
592	-1539	-6572	-4575	-2455	-1539	4344	5349	-797

Momenti resistenti a filo appoggi

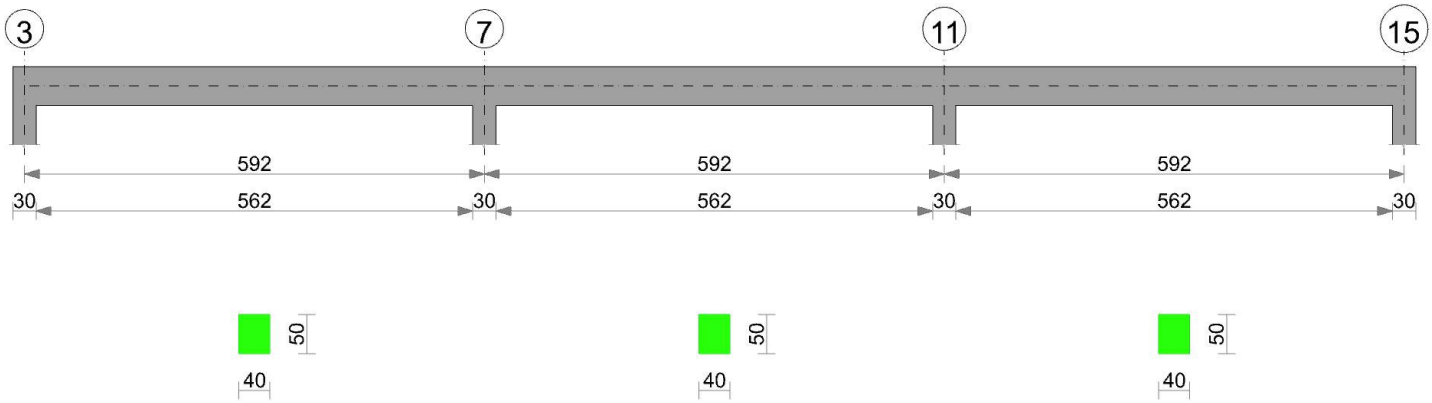
campata	x	appoggio	momento positivo	momento negativo
1	15	2	1199496	-1199496
1	577	6	1199891	-1831003
2	15	6	1199891	-1831003
2	577	10	1371922	-1806447
3	15	10	1371922	-1806447
3	577	14	1199496	-1199496

Controllo diametro delle barre longitudinali nei nodi

Nessun nodo è da verificare

Trave a "Copertura" 3-15

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Elenco delle sezioni

N°	Descrizione	Tipo	Base	Altezza	Copriferro sup.	Copriferro inf.	Copriferro lat.
1	R 40x50	Rettangolare	40	50	3.5	3.5	3.5

Diagramma verifica stato limite ultimo flessione

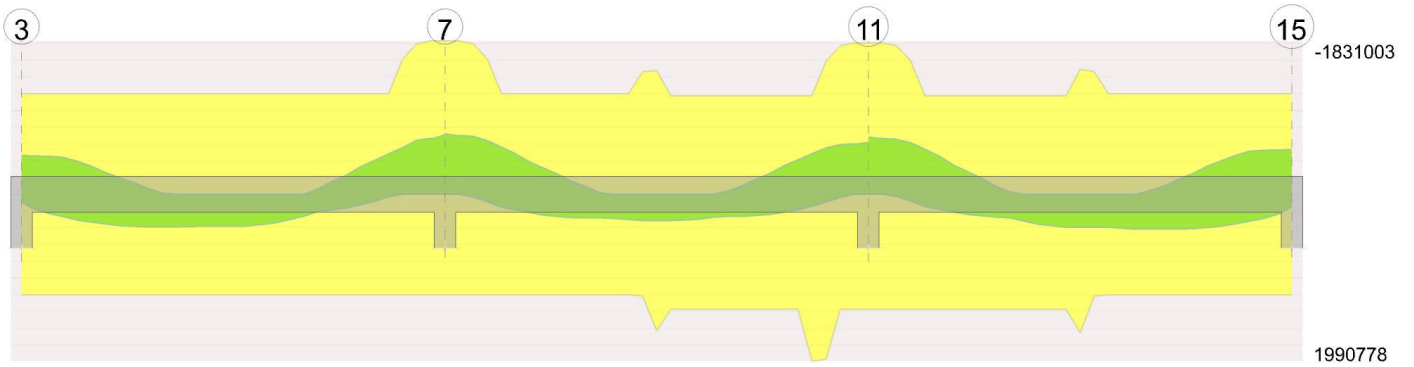


Diagramma verifica stato limite ultimo taglio

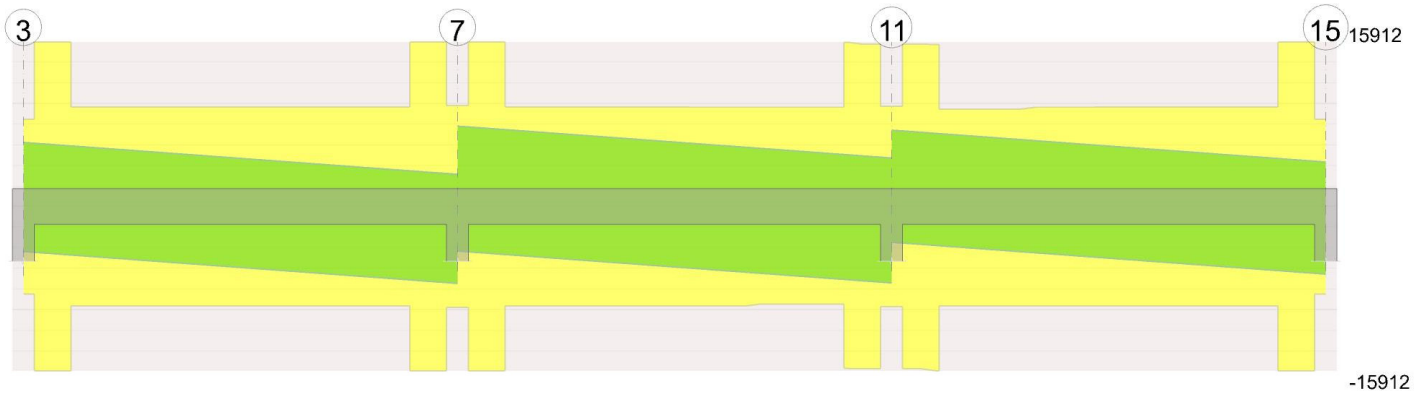
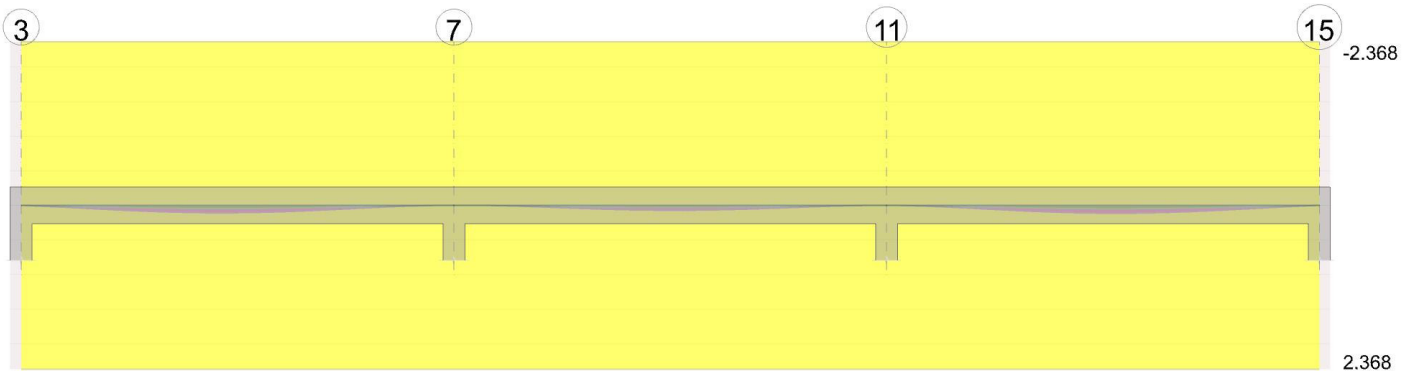


Diagramma verifica stato limite esercizio quasi permanente freccia



Output campate

Campata 1 tra i fili 3 - 7, sezione R 40x50, aste 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	7.1	5.1	7.1	5.1							-265530	SLU 8	-248222	-1199496	0.109	4.83	Si
15	7.1	5.1	7.1	5.1							-231645	SLU 8	-231645	-1199496	0.109	5.18	Si
296	7.1	5.1	7.1	5.1	378806	SLU 7	382921	1199496	0.109	3.13							Si
577	11.12	5.1	7.1	5.1							-669461	SLU 8	-669461	-1831003	0.132	2.74	Si
592	11.12	5.1	7.1	5.1							-752740	SLU 8	-710735	-1831003	0.132	2.58	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	7.1	5.1	7.1	5.1	91137	SLV 13	91137	1199496	0.109	13.16	-469477	SLV 3	-462760	-1199496	0.109	2.59	Si
15	7.1	5.1	7.1	5.1	125644	SLV 13	170084	1199496	0.109	7.05	-456604	SLV 3	-456604	-1199496	0.109	2.63	Si
296	7.1	5.1	7.1	5.1	306631	SLV 15	338513	1199496	0.109	3.54							Si
513	7.1	5.1	7.1	5.1	-30402	SLV 1	29770	1199496	0.109	40.29	-401783	SLV 15	-482205	-1199496	0.109	2.49	Si
577	11.12	5.1	7.1	5.1							-611381	SLV 15	-611381	-1831003	0.132	2.99	Si
592	11.12	5.1	7.1	5.1							-646293	SLV 15	-628438	-1831003	0.132	2.91	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	7.1	5.1	7.1	5.1							-346437	SLD 3	-337346	-1199496	0.109	3.56	Si
15	7.1	5.1	7.1	5.1	-2144	SLD 13	35915	1199496	0.109	33.4	-328816	SLD 3	-328816	-1199496	0.109	3.65	Si
296	7.1	5.1	7.1	5.1	285048	SLD 15	304162	1199496	0.109	3.94							Si
513	7.1	5.1	7.1	5.1							-320244	SLD 15	-396854	-1199496	0.109	3.02	Si
577	11.12	5.1	7.1	5.1							-548034	SLD 15	-548034	-1831003	0.132	3.34	Si
592	11.12	5.1	7.1	5.1							-593212	SLD 15	-570280	-1831003	0.132	3.21	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	7.1	0	2323	SLU 7	2323	8481	76098	0	8481	1	3.65	Si
15	0.101	7.1	0	2225	SLU 7	2225	8481	76098	15912	15912	1	7.15	Si
296	0.061	7.1	0	-847	SLU 8	-847	-8481	-76098	-9644	-9644	1	11.38	Si
577	0.101	9.74	0	-5509	SLU 7	-5509	-9422	-76072	-15906	-15906	1	2.89	Si
592	0	10.9	0	-5607	SLU 7	-5607	-9781	-76072	0	-9781	1	1.74	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	7.1	0	2344	Ger.	6236	8481	76098	0	8481	1	1.36	Si
0	0	7.1	0	890	Ger.	-4392	-8481	-76098	0	-8481	1	1.93	Si
15	0.101	7.1	0	2269	Ger.	6156	8481	76098	15912	15912	1	2.58	Si
15	0.101	7.1	0	815	Ger.	-4472	-8481	-76098	-15912	-15912	1	3.56	Si
296	0.061	7.1	0	535	Ger.	4696	8481	76098	9644	9644	1	2.05	Si
296	0.061	7.1	0	-1674	Ger.	-5932	-8481	-76098	-9644	-9644	1	1.63	Si
577	0.101	9.74	0	-2262	Ger.	3237	9422	76072	15906	15906	1	4.91	Si
577	0.101	9.74	0	-5441	Ger.	-7391	-9422	-76072	-15906	-15906	1	2.15	Si
592	0	10.9	0	-2337	Ger.	3157	9781	76072	0	9781	1	3.1	Si
592	0	10.9	0	-5516	Ger.	-7471	-9781	-76072	0	-9781	1	1.31	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	7.1	0	2025	SLD 15	2025	8481	76098	0	8481	1	4.19	Si
15	0.101	7.1	0	1950	SLD 15	1950	8481	76098	15912	15912	1	8.16	Si
296	0.061	7.1	0	50	SLD 3	50	8481	76098	9644	9644	1	192.74	Si
296	0.061	7.1	0	-1189	SLD 13	-1189	-8481	-76098	-9644	-9644	1	8.11	Si
577	0.101	9.74	0	-4744	SLD 3	-4744	-9422	-76072	-15906	-15906	1	3.35	Si
592	0	10.9	0	-4819	SLD 3	-4819	-9781	-76072	0	-9781	1	2.03	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-201955	3	-188791	9.4	199.2	141.2	3600	-189170	2	-177044	8.8	149.4			Si
15	-176189	3	-176189	8.8	199.2	131.8	3600	-165480	2	-165480	8.3	149.4			Si
296	287213	2	290332	14.5	199.2	217.1	3600	260067	1	262881	13.1	149.4			Si
577	-508268	3	-508268	24.7	199.2	355.6	3600	-467219	2	-467219	22.7	149.4			Si
592	-571572	3	-539639	26.3	199.2	377.6	3600	-525558	2	-496108	24.1	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.003	0.003	0.003	0.002	0.003	0.003	0.002	0.002	0.003	0.003	0.006	1	0.006	1	9999	Si
276	0.052	0.046	0.046	0.04	0.048	0.046	0.042	0.04	0.047	0.046	0.107	1	0.105	1	5517	Si
296	0.052	0.045	0.045	0.039	0.047	0.045	0.042	0.04	0.046	0.046	0.106	1	0.104	1	5575	Si
577	0	0	0	0	0	0	0	0	0	0	0	1	0	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
30	415	4.9	50	0.007	0.00088	0.01283	0	8481	76098	15912	15912	15402	15912	6156	-524	SLV 13	Si
592	177	6	50	0.01	0.00041	0.01543	0	9422	76072	15906	15906	18542	18542	-7391	-524	SLV 13	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	1539	-4392	-5392	890	1539	6236	4269	2344
15	1459	-4472	-5392	815	1459	6156	4269	2269
296	0	-5932	-5392	-1674	0	4696	4269	535
577	-1459	-7391	-5392	-5441	-1459	3237	4269	-2262
592	-1539	-7471	-5392	-5516	-1539	3157	4269	-2337

Campata 2 tra i fili 7 - 11, sezione R 40x50, aste 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.1	7.1	5.1							-720840	SLU 8	-678397	-1831003	0.132	2.7	Si
15	11.12	5.1	7.1	5.1							-636685	SLU 8	-636685	-1831003	0.132	2.88	Si
296	8.99	5.7	9.7	5.1	313439	SLU 8	313439	1629644	0.131	5.2							Si
577	11.12	5.6	8.04	5.1							-575328	SLU 7	-575328	-1806447	0.133	3.14	Si
592	11.12	5.6	8.04	5.1							-656458	SLU 7	-615528	-1806447	0.133	2.93	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.1	7.1	5.1							-741745	SLV 3	-721467	-1831003	0.132	2.54	Si
15	11.12	5.1	7.1	5.1							-701842	SLV 3	-701842	-1831003	0.132	2.61	Si
79	7.1	5.1	7.1	5.1	87633	SLV 15	154212	1199496	0.109	7.78	-482881	SLV 1	-562453	-1199496	0.109	2.13	Si
296	8.99	5.7	9.7	5.1	231061	SLV 15	255319	1629644	0.131	6.38							Si
577	11.12	5.6	8.04	5.1							-602128	SLV 15	-602128	-1806447	0.133	3	Si
592	11.12	5.6	8.04	5.1							-633996	SLV 15	-617772	-1806447	0.133	2.92	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.1	7.1	5.1							-637209	SLD 3	-612743	-1831003	0.132	2.99	Si
15	11.12	5.1	7.1	5.1							-588885	SLD 3	-588885	-1831003	0.132	3.11	Si
79	7.1	5.1	7.1	5.1	-37488	SLD 15	36608	1199496	0.109	32.77	-357760	SLD 1	-432250	-1199496	0.109	2.78	Si
296	8.99	5.7	9.7	5.1	225763	SLD 15	235871	1629644	0.131	6.91							Si
577	11.12	5.6	8.04	5.1							-511719	SLD 15	-511719	-1806447	0.133	3.53	Si
592	11.12	5.6	8.04	5.1							-554551	SLD 15	-532849	-1806447	0.133	3.39	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5659	SLU 8	5659	9781	76072	0	9781	1	1.73	Si
15	0.101	9.74	0	5562	SLU 8	5562	9422	76072	15906	15906	1	2.86	Si
296	0.061	7.1	0	-272	SLU 7	-272	-8479	-76067	-9640	-9640	1	35.49	Si
577	0.101	9.74	0	-5360	SLU 8	-5360	-9368	-75134	-15710	-15710	1	2.93	Si
592	0	10.9	0	-5458	SLU 8	-5458	-9724	-75134	0	-9724	1	1.78	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5277	Ger.	7803	9781	76072	0	9781	1	1.25	Si
0	0	10.9	0	2677	Ger.	-4350	-9781	-76072	0	-9781	1	2.25	Si
15	0.101	9.74	0	5202	Ger.	7728	9422	76072	15906	15906	1	2.06	Si
15	0.101	9.74	0	2602	Ger.	-4425	-9422	-76072	-15906	-15906	1	3.59	Si
296	0.061	7.1	0	1063	Ger.	6269	8479	76067	9640	9640	1	1.54	Si
296	0.061	7.1	0	-1393	Ger.	-5884	-8479	-76067	-9640	-9640	1	1.64	Si
577	0.101	9.74	0	-2075	Ger.	4810	9368	75134	15710	15710	1	3.27	Si
577	0.101	9.74	0	-5431	Ger.	-7344	-9368	-75134	-15710	-15710	1	2.14	Si
592	0	10.9	0	-2150	Ger.	4730	9724	75134	0	9724	1	2.06	Si
592	0	10.9	0	-5506	Ger.	-7424	-9724	-75134	0	-9724	1	1.31	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	4706	SLD 15	4706	9781	76072	0	9781	1	2.08	Si
15	0.101	9.74	0	4631	SLD 15	4631	9422	76072	15906	15906	1	3.43	Si

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
296	0.061	7.1	0	525	SLD 1	525	8479	76067	9640	9640	1	18.37	Si
296	0.061	7.1	0	-854	SLD 15	-854	-8479	-76067	-9640	-9640	1	11.28	Si
577	0.101	9.74	0	-4695	SLD 3	-4695	-9368	-75134	-15710	-15710	1	3.35	Si
592	0	10.9	0	-4770	SLD 3	-4770	-9724	-75134	0	-9724	1	2.04	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-547463	3	-515203	25.1	199.2	360.5	3600	-503381	2	-473553	23	149.4			Si
15	-483504	3	-483504	23.5	199.2	338.3	3600	-444288	2	-444288	21.6	149.4			Si
296	238070	3	238070	11.4	199.2	169.1	3600	218980	2	218980	10.5	149.4			Si
577	-436649	2	-436649	21	199.2	306.2	3600	-398223	1	-398223	19.2	149.4			Si
592	-498315	2	-467201	22.5	199.2	327.6	3600	-455077	1	-426369	20.5	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0	0	-0.001	-0.001	0	0	-0.001	-0.001	0	0	-0.001	1	-0.001	1	9999	Si
296	0.035	0.032	0.03	0.027	0.033	0.032	0.028	0.027	0.032	0.032	0.071	2	0.071	2	8313	Si
577	0	0	0	0	0	0	0	0	0	0	0	2	0	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
622	202.8	6	50	0.01	0.00061	0.01495	0	9422	76072	15906	15906	17688	17688	7728	-939	SLV 3	Si
1184	190.6	5.9	50	0.01	0.0005	0.0153	0	9368	75134	15710	15710	18011	18011	-7344	-676	SLV 15	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	1534	-4350	-5349	2677	1534	7803	5699	5277
15	1459	-4425	-5349	2602	1459	7728	5699	5202
296	0	-5884	-5349	-1393	0	6269	5699	1063
577	-1459	-7344	-5349	-5431	-1459	4810	5699	-2075
592	-1539	-7424	-5349	-5506	-1539	4730	5699	-2150

Campata 3 tra i fili 11 - 15, sezione R 40x50, aste 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.6	8.04	5.1							-697341	SLU 7	-657054	-1806447	0.133	2.75	Si
15	11.12	5.6	8.04	5.1							-617497	SLU 7	-617497	-1806447	0.133	2.93	Si
296	9.09	5.7	9.84	5.1	393797	SLU 7	393797	1652284	0.132	4.2							Si
577	7.1	5.1	7.1	5.1							-243687	SLU 8	-243687	-1199496	0.109	4.92	Si
592	7.1	5.1	7.1	5.1							-277760	SLU 8	-260358	-1199496	0.109	4.61	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.6	8.04	5.1							-699367	SLV 3	-682283	-1806447	0.133	2.65	Si
15	11.12	5.6	8.04	5.1							-665739	SLV 3	-665739	-1806447	0.133	2.71	Si
79	7.1	5.9	8.04	5.1	80653	SLV 15	146743	1372552	0.125	9.35	-454578	SLV 1	-538012	-1175730	0.112	2.19	Si
296	9.09	5.7	9.84	5.1	317178	SLV 3	344924	1652284	0.132	4.79							Si
577	7.1	5.1	7.1	5.1	180277	SLV 1	226992	1199496	0.109	5.28	-529055	SLV 15	-529055	-1199496	0.109	2.27	Si
592	7.1	5.1	7.1	5.1	144078	SLV 1	144078	1199496	0.109	8.33	-540511	SLV 15	-534502	-1199496	0.109	2.24	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.6	8.04	5.1							-604706	SLD 3	-582833	-1806447	0.133	3.1	Si
15	11.12	5.6	8.04	5.1							-561508	SLD 3	-561508	-1806447	0.133	3.22	Si
79	7.1	5.9	8.04	5.1	-36767	SLD 15	38180	1372552	0.125	35.95	-337158	SLD 1	-414568	-1175730	0.112	2.84	Si
296	9.09	5.7	9.84	5.1	296168	SLD 3	311438	1652284	0.132	5.31							Si
577	7.1	5.1	7.1	5.1	24656	SLD 1	64074	1199496	0.109	18.72	-373433	SLD 15	-373433	-1199496	0.109	3.21	Si
592	7.1	5.1	7.1	5.1							-390319	SLD 15	-381595	-1199496	0.109	3.14	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5372	SLU 7	5372	9724	75134	0	9724	1	1.81	Si
15	0.101	9.74	0	5274	SLU 7	5274	9368	75134	15710	15710	1	2.98	Si
296	0.061	7.1	0	34	SLU 7	34	8479	76069	9640	9640	1	286.53	Si
577	0.101	7.1	0	-2237	SLU 7	-2237	-8481	-76098	-15912	-15912	1	7.11	Si
592	0	7.1	0	-2334	SLU 7	-2334	-8481	-76098	0	-8481	1	3.63	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5201	Ger.	7418	9724	75134	0	9724	1	1.31	Si
0	0	10.9	0	2267	Ger.	-3499	-9724	-75134	0	-9724	1	2.78	Si
15	0.101	9.74	0	5126	Ger.	7343	9368	75134	15710	15710	1	2.14	Si
15	0.101	9.74	0	2192	Ger.	-3574	-9368	-75134	-15710	-15710	1	4.4	Si
296	0.061	7.1	0	1431	Ger.	5884	8479	76069	9640	9640	1	1.64	Si
296	0.061	7.1	0	-1396	Ger.	-5033	-8479	-76069	-9640	-9640	1	1.92	Si
577	0.101	7.1	0	-722	Ger.	4424	8481	76098	15912	15912	1	3.6	Si
577	0.101	7.1	0	-2381	Ger.	-6492	-8481	-76098	-15912	-15912	1	2.45	Si
592	0	7.1	0	-797	Ger.	4344	8481	76098	0	8481	1	1.95	Si
592	0	7.1	0	-2456	Ger.	-6572	-8481	-76098	0	-8481	1	1.29	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	4558	SLD 15	4558	9724	75134	0	9724	1	2.13	Si
15	0.101	9.74	0	4483	SLD 15	4483	9368	75134	15710	15710	1	3.5	Si
296	0.061	7.1	0	811	SLD 1	811	8479	76069	9640	9640	1	11.89	Si
296	0.061	7.1	0	-776	SLD 15	-776	-8479	-76069	-9640	-9640	1	12.42	Si
577	0.101	7.1	0	-2017	SLD 3	-2017	-8481	-76098	-15912	-15912	1	7.89	Si
592	0	7.1	0	-2092	SLD 3	-2092	-8481	-76098	0	-8481	1	4.05	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-529474	2	-498864	24	199.2	349.8	3600	-484349	1	-456210	22	149.4			Si
15	-468816	2	-468816	22.6	199.2	328.7	3600	-428632	1	-428632	20.6	149.4			Si
296	298691	2	298691	14.3	199.2	211.6	3600	271201	1	271201	12.9	149.4			Si
577	-185314	3	-185314	9.2	199.2	138.6	3600	-174389	2	-174389	8.7	149.4			Si
592	-211222	3	-197987	9.9	199.2	148.1	3600	-198217	2	-186022	9.3	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.001	0.001	0.001	0	0.001	0.001	0.001	0	0.001	0.001	0.001	1	0.001	1	9999	Si
296	0.055	0.048	0.048	0.043	0.05	0.049	0.044	0.043	0.049	0.049	0.112	1	0.111	1	5263	Si
316	0.055	0.049	0.048	0.043	0.051	0.049	0.045	0.043	0.05	0.049	0.113	1	0.112	1	5231	Si
577	0.003	0.003	0.003	0.002	0.003	0.003	0.002	0.002	0.003	0.003	0.006	1	0.006	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
1214	184.1	5.9	50	0.01	0.00055	0.01531	0	9368	75134	15710	15710	18300	18300	7343	-1226	SLV 3	Si
1776	407.8	4.9	50	0.007	0.00101	0.01239	0	8481	76098	15912	15912	15440	15912	-6492	-1310	SLV 1	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	1534	-3499	-4575	2267	1534	7418	5349	5201
15	1459	-3574	-4575	2192	1459	7343	5349	5126
296	0	-5033	-4575	-1396	0	5884	5349	1431
577	-1459	-6492	-4575	-2381	-1459	4424	5349	-722
592	-1539	-6572	-4575	-2456	-1539	4344	5349	-797

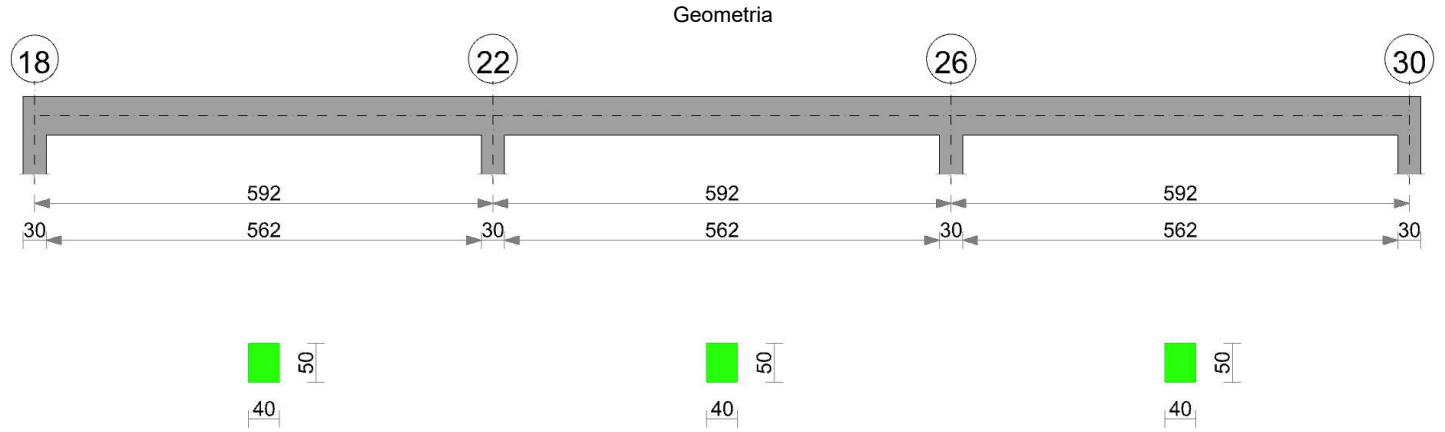
Momenti resistenti a filo appoggi

campata	x	appoggio	momento positivo	momento negativo
1	15	3	1199496	-1199496
1	577	7	1199891	-1831003
2	15	7	1199891	-1831003
2	577	11	1371922	-1806447
3	15	11	1371922	-1806447
3	577	15	1199496	-1199496

Controllo diametro delle barre longitudinali nei nodi

Nessun nodo è da verificare

Trave a "Copertura" 18-30



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Elenco delle sezioni

N°	Descrizione	Tipo	Base	Altezza	Copriferro sup.	Copriferro inf.	Copriferro lat.
1	R 40x50	Rettangolare	40	50	3.5	3.5	3.5

Diagramma verifica stato limite ultimo flessione

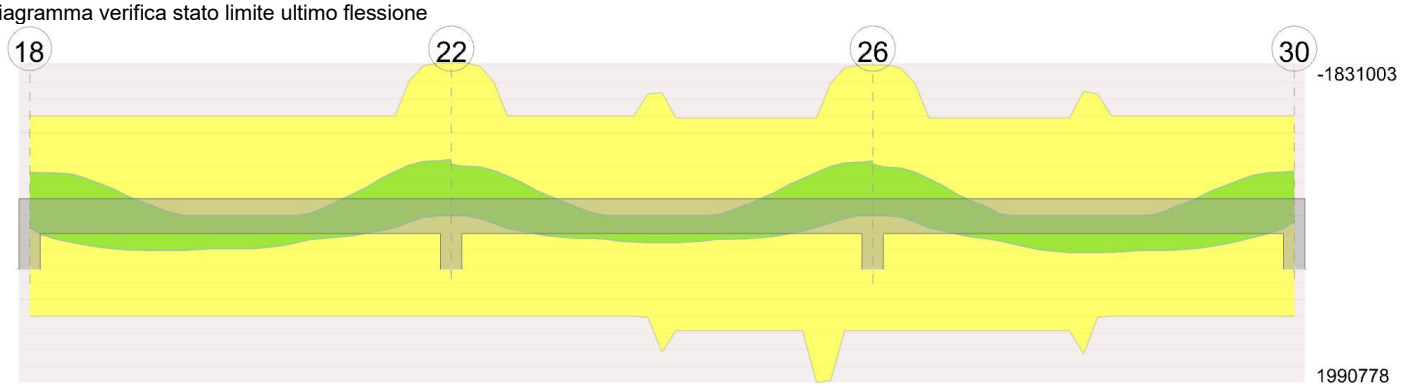


Diagramma verifica stato limite ultimo taglio

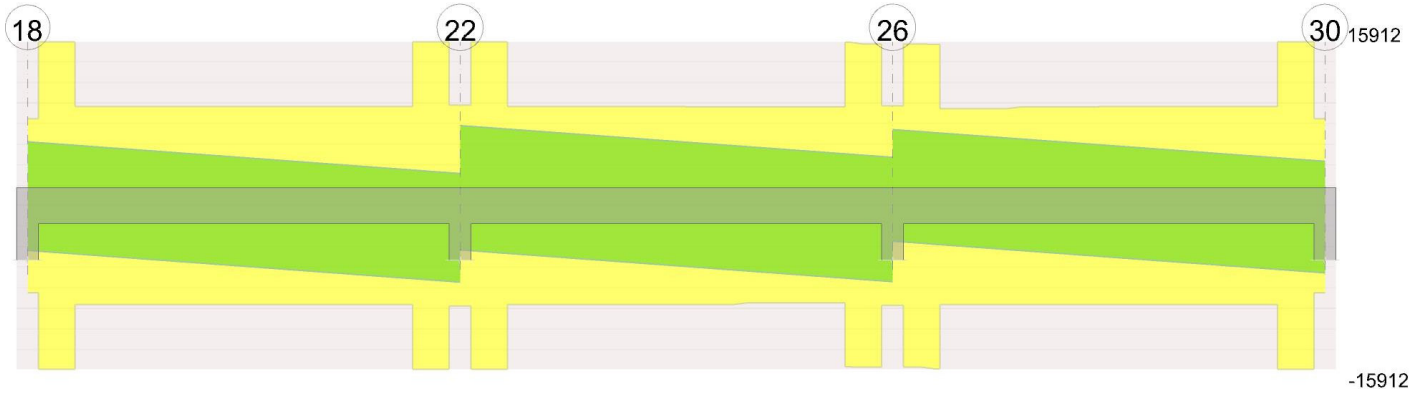
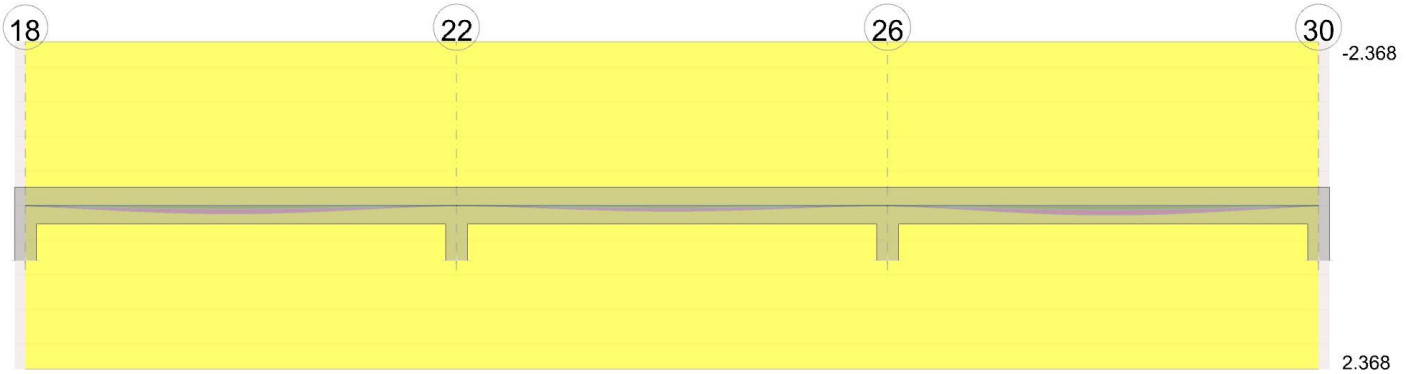


Diagramma verifica stato limite esercizio quasi permanente freccia



Output campate

Campata 1 tra i fili 18 - 22, sezione R 40x50, aste 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	7.1	5.1	7.1	5.1							-279973	SLU 7	-262587	-1199496	0.109	4.57	Si
15	7.1	5.1	7.1	5.1							-245931	SLU 7	-245931	-1199496	0.109	4.88	Si
296	7.1	5.1	7.1	5.1	393148	SLU 7	393148	1199496	0.109	3.05							Si
577	11.12	5.1	7.1	5.1							-620180	SLU 8	-620180	-1831003	0.132	2.95	Si
592	11.12	5.1	7.1	5.1							-699658	SLU 8	-659554	-1831003	0.132	2.78	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	7.1	5.1	7.1	5.1	140732	SLV 13	140732	1199496	0.109	8.52	-532965	SLV 3	-526799	-1199496	0.109	2.28	Si
15	7.1	5.1	7.1	5.1	176836	SLV 13	223321	1199496	0.109	5.37	-521195	SLV 3	-521195	-1199496	0.109	2.3	Si
296	7.1	5.1	7.1	5.1	316817	SLV 13	344227	1199496	0.109	3.48							Si
513	7.1	5.1	7.1	5.1	76154	SLV 3	142461	1199496	0.109	8.42	-452108	SLV 13	-535525	-1199496	0.109	2.24	Si
577	11.12	5.1	7.1	5.1							-665312	SLV 13	-665312	-1831003	0.132	2.75	Si
592	11.12	5.1	7.1	5.1							-699570	SLV 13	-682152	-1831003	0.132	2.68	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	7.1	5.1	7.1	5.1							-385173	SLD 3	-376336	-1199496	0.109	3.19	Si
15	7.1	5.1	7.1	5.1	23703	SLD 13	63025	1199496	0.109	19.03	-368062	SLD 3	-368062	-1199496	0.109	3.26	Si
296	7.1	5.1	7.1	5.1	296275	SLD 13	311429	1199496	0.109	3.85							Si
513	7.1	5.1	7.1	5.1	-39597	SLD 3	35494	1199496	0.109	33.79	-336357	SLD 13	-413760	-1199496	0.109	2.9	Si
577	11.12	5.1	7.1	5.1							-562248	SLD 13	-562248	-1831003	0.132	3.26	Si
592	11.12	5.1	7.1	5.1							-605908	SLD 13	-583793	-1831003	0.132	3.14	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	7.1	0	2336	SLU 8	2336	8481	76098	0	8481	1	3.63	Si
15	0.101	7.1	0	2238	SLU 8	2238	8481	76098	15912	15912	1	7.11	Si
296	0.061	7.1	0	-59	SLU 10	-59	-8481	-76098	-9644	-9644	1	163.08	Si
577	0.101	9.74	0	-5327	SLU 7	-5327	-9422	-76072	-15906	-15906	1	2.99	Si
592	0	10.9	0	-5425	SLU 7	-5425	-9781	-76072	0	-9781	1	1.8	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	7.1	0	2445	Ger.	6236	8481	76098	0	8481	1	1.36	Si
0	0	7.1	0	822	Ger.	-4392	-8481	-76098	0	-8481	1	1.93	Si
15	0.101	7.1	0	2370	Ger.	6156	8481	76098	15912	15912	1	2.58	Si
15	0.101	7.1	0	747	Ger.	-4472	-8481	-76098	-15912	-15912	1	3.56	Si
296	0.061	7.1	0	1365	Ger.	4696	8481	76098	9644	9644	1	2.05	Si
296	0.061	7.1	0	-1414	Ger.	-5932	-8481	-76098	-9644	-9644	1	1.63	Si
577	0.101	9.74	0	-2245	Ger.	3237	9422	76072	15906	15906	1	4.91	Si
577	0.101	9.74	0	-5097	Ger.	-7391	-9422	-76072	-15906	-15906	1	2.15	Si
592	0	10.9	0	-2320	Ger.	3157	9781	76072	0	9781	1	3.1	Si
592	0	10.9	0	-5172	Ger.	-7471	-9781	-76072	0	-9781	1	1.31	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	7.1	0	2088	SLD 13	2088	8481	76098	0	8481	1	4.06	Si
15	0.101	7.1	0	2013	SLD 13	2013	8481	76098	15912	15912	1	7.9	Si
296	0.061	7.1	0	755	SLD 3	755	8481	76098	9644	9644	1	12.77	Si
296	0.061	7.1	0	-805	SLD 13	-805	-8481	-76098	-9644	-9644	1	11.98	Si
577	0.101	9.74	0	-4470	SLD 3	-4470	-9422	-76072	-15906	-15906	1	3.56	Si
592	0	10.9	0	-4545	SLD 3	-4545	-9781	-76072	0	-9781	1	2.15	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-213338	2	-200124	10	199.2	149.7	3600	-200167	1	-187991	9.4	149.4			Si
15	-187471	2	-187471	9.3	199.2	140.2	3600	-176378	1	-176378	8.8	149.4			Si
296	298202	2	298202	14.9	199.2	223	3600	270776	1	270776	13.5	149.4			Si
577	-470239	3	-470239	22.9	199.2	329	3600	-429914	2	-429914	20.9	149.4			Si
592	-530730	3	-500204	24.3	199.2	350	3600	-485543	2	-457448	22.3	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.003	0.003	0.003	0.002	0.003	0.003	0.002	0.002	0.003	0.003	0.006	2	0.006	2	9999	Si
276	0.055	0.049	0.048	0.043	0.051	0.049	0.045	0.044	0.05	0.049	0.114	1	0.114	1	5198	Si
296	0.055	0.049	0.048	0.043	0.05	0.049	0.044	0.043	0.049	0.049	0.113	1	0.113	1	5223	Si
577	0.001	0.001	0.001	0	0.001	0.001	0.001	0	0.001	0.001	0.002	1	0.001	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
30	408.2	4.9	50	0.007	0.00101	0.01283	0	8481	76098	15912	15912	15397	15912	6156	-422	SLV 13	Si
592	183.8	6	50	0.01	0.00054	0.01543	0	9422	76072	15906	15906	18296	18296	-7391	-422	SLV 13	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	1539	-4392	-5392	822	1539	6236	4269	2445
15	1459	-4472	-5392	747	1459	6156	4269	2370
296	0	-5932	-5392	-1414	0	4696	4269	1365
577	-1459	-7391	-5392	-5097	-1459	3237	4269	-2245
592	-1539	-7471	-5392	-5172	-1539	3157	4269	-2320

Campata 2 tra i fili 22 - 26, sezione R 40x50, aste 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.1	7.1	5.1							-664432	SLU 7	-623576	-1831003	0.132	2.94	Si
15	11.12	5.1	7.1	5.1							-583450	SLU 7	-583450	-1831003	0.132	3.14	Si
296	8.99	5.7	9.7	5.1	321934	SLU 7	321934	1629644	0.131	5.06							Si
577	11.12	5.6	8.04	5.1							-602385	SLU 8	-602385	-1806447	0.133	3	Si
592	11.12	5.6	8.04	5.1							-680758	SLU 8	-641207	-1806447	0.133	2.82	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.1	7.1	5.1							-632171	SLV 3	-615790	-1831003	0.132	2.97	Si
15	11.12	5.1	7.1	5.1							-599989	SLV 3	-599989	-1831003	0.132	3.05	Si
296	8.99	5.7	9.7	5.1	237455	SLV 1	254165	1629644	0.131	6.41							Si
513	7.1	5.9	12.06	5.1	84696	SLV 3	137611	1990778	0.151	14.47	-449387	SLV 13	-525804	-1176014	0.113	2.24	Si
577	11.12	5.6	8.04	5.1							-647760	SLV 13	-647760	-1806447	0.133	2.79	Si
592	11.12	5.6	8.04	5.1							-680729	SLV 13	-663943	-1806447	0.133	2.72	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.1	7.1	5.1							-554240	SLD 3	-532376	-1831003	0.132	3.44	Si
15	11.12	5.1	7.1	5.1							-511083	SLD 3	-511083	-1831003	0.132	3.58	Si
296	8.99	5.7	9.7	5.1	231794	SLD 1	238088	1629644	0.131	6.84							Si
513	7.1	5.9	12.06	5.1	-32878	SLD 3	24895	1990778	0.151	79.97	-331814	SLD 13	-403665	-1176014	0.113	2.91	Si
577	11.12	5.6	8.04	5.1							-545661	SLD 13	-545661	-1806447	0.133	3.31	Si
592	11.12	5.6	8.04	5.1							-588170	SLD 13	-566624	-1806447	0.133	3.19	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5497	SLU 8	5497	9781	76072	0	9781	1	1.78	Si
15	0.101	9.74	0	5400	SLU 8	5400	9422	76072	15906	15906	1	2.95	Si

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
296	0.061	7.1	0	-447	SLU 8	-447	-8479	-76067	-9640	-9640	1	21.55	Si
577	0.101	9.74	0	-5193	SLU 7	-5193	-9368	-75134	-15710	-15710	1	3.03	Si
592	0	10.9	0	-5291	SLU 7	-5291	-9724	-75134	0	-9724	1	1.84	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5523	Ger.	7804	9781	76072	0	9781	1	1.25	Si
0	0	10.9	0	2182	Ger.	-4350	-9781	-76072	0	-9781	1	2.25	Si
15	0.101	9.74	0	5448	Ger.	7729	9422	76072	15906	15906	1	2.06	Si
15	0.101	9.74	0	2107	Ger.	-4425	-9422	-76072	-15906	-15906	1	3.59	Si
296	0.061	7.1	0	890	Ger.	6269	8479	76067	9640	9640	1	1.54	Si
296	0.061	7.1	0	-1480	Ger.	-5884	-8479	-76067	-9640	-9640	1	1.64	Si
577	0.101	9.74	0	-2158	Ger.	4810	9368	75134	15710	15710	1	3.27	Si
577	0.101	9.74	0	-5072	Ger.	-7344	-9368	-75134	-15710	-15710	1	2.14	Si
592	0	10.9	0	-2233	Ger.	4730	9724	75134	0	9724	1	2.06	Si
592	0	10.9	0	-5147	Ger.	-7424	-9724	-75134	0	-9724	1	1.31	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	4791	SLD 13	4791	9781	76072	0	9781	1	2.04	Si
15	0.101	9.74	0	4716	SLD 13	4716	9422	76072	15906	15906	1	3.37	Si
296	0.061	7.1	0	368	SLD 3	368	8479	76067	9640	9640	1	26.16	Si
296	0.061	7.1	0	-958	SLD 13	-958	-8479	-76067	-9640	-9640	1	10.06	Si
577	0.101	9.74	0	-4435	SLD 3	-4435	-9368	-75134	-15710	-15710	1	3.54	Si
592	0	10.9	0	-4510	SLD 3	-4510	-9724	-75134	0	-9724	1	2.16	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente						Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-504420	2	-473359	23	199.2	331.2	3600	-460987	1	-432308	21	149.4			Si
15	-442859	2	-442859	21.5	199.2	309.9	3600	-404192	1	-404192	19.7	149.4			Si
296	244702	2	244702	11.7	199.2	173.9	3600	225594	1	225594	10.8	149.4			Si
577	-455946	3	-455946	21.9	199.2	319.7	3600	-416277	2	-416277	20	149.4			Si
592	-515519	3	-485451	23.4	199.2	340.4	3600	-471063	2	-443389	21.3	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0	0	0	0	0	0	0	0	0	0	0	2	0	2	9999	Si
296	0.037	0.034	0.032	0.029	0.035	0.034	0.03	0.029	0.035	0.034	0.077	1	0.076	1	7725	Si
577	0	0	0	0	0	0	0	0	0	0	0	1	0	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
622	187.4	6	50	0.01	0.00048	0.01495	0	9422	76072	15906	15906	18254	18254	7729	-1224	SLV 3	Si
1184	200.3	5.9	50	0.01	0.00056	0.0153	0	9368	75134	15710	15710	17644	17644	-7344	-444	SLV 13	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	1534	-4350	-5349	2182	1534	7804	5699	5523
15	1459	-4425	-5349	2107	1459	7729	5699	5448
296	0	-5884	-5349	-1480	0	6269	5699	890
577	-1459	-7344	-5349	-5072	-1459	4810	5699	-2158
592	-1539	-7424	-5349	-5147	-1539	4730	5699	-2233

Campata 3 tra i fili 26 - 30, sezione R 40x50, aste 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.6	8.04	5.1							-672688	SLU 8	-627767	-1806447	0.133	2.88	Si
15	11.12	5.6	8.04	5.1							-585744	SLU 8	-585744	-1806447	0.133	3.08	Si
296	9.09	5.7	9.84	5.1	440321	SLU 8	440321	1652284	0.132	3.75							Si
335	7.1	5.1	7.1	5.1	429088	SLU 8	436118	1199496	0.109	2.75							Si
577	7.1	5.1	7.1	5.1							-297234	SLU 7	-297234	-1199496	0.109	4.04	Si
592	7.1	5.1	7.1	5.1							-341946	SLU 7	-318663	-1199496	0.109	3.76	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.6	8.04	5.1							-625685	SLV 3	-606079	-1806447	0.133	2.98	Si
15	11.12	5.6	8.04	5.1							-588035	SLV 3	-588035	-1806447	0.133	3.07	Si
296	9.09	5.7	9.84	5.1	353634	SLV 3	374807	1652284	0.132	4.41							Si
577	7.1	5.1	7.1	5.1	104498	SLV 3	152052	1199496	0.109	7.89	-528094	SLV 13	-528094	-1199496	0.109	2.27	Si
592	7.1	5.1	7.1	5.1	67523	SLV 3	67523	1199496	0.109	17.76	-554161	SLV 13	-540518	-1199496	0.109	2.22	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.6	8.04	5.1							-555657	SLD 3	-530876	-1806447	0.133	3.4	Si
15	11.12	5.6	8.04	5.1							-507880	SLD 3	-507880	-1806447	0.133	3.56	Si
296	9.09	5.7	9.84	5.1	331624	SLD 3	342062	1652284	0.132	4.83							Si
577	7.1	5.1	7.1	5.1	-34158	SLD 3	10178	1199496	0.109	117.86	-389438	SLD 13	-389438	-1199496	0.109	3.08	Si
592	7.1	5.1	7.1	5.1							-417904	SLD 13	-403031	-1199496	0.109	2.98	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5703	SLU 8	5703	9724	75134	0	9724	1	1.71	Si
15	0.101	9.74	0	5603	SLU 8	5603	9368	75134	15710	15710	1	2.8	Si
296	0.061	7.1	0	-149	SLU 7	-149	-8479	-76069	-9640	-9640	1	64.64	Si
577	0.101	7.1	0	-2874	SLU 8	-2874	-8481	-76098	-15912	-15912	1	5.54	Si
592	0	7.1	0	-2974	SLU 8	-2974	-8481	-76098	0	-8481	1	2.85	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5484	Ger.	7419	9724	75134	0	9724	1	1.31	Si
0	0	10.9	0	2483	Ger.	-3497	-9724	-75134	0	-9724	1	2.78	Si
15	0.101	9.74	0	5407	Ger.	7344	9368	75134	15710	15710	1	2.14	Si
15	0.101	9.74	0	2406	Ger.	-3572	-9368	-75134	-15710	-15710	1	4.4	Si
296	0.061	7.1	0	1079	Ger.	5884	8479	76069	9640	9640	1	1.64	Si
296	0.061	7.1	0	-1298	Ger.	-5033	-8479	-76069	-9640	-9640	1	1.92	Si
577	0.101	7.1	0	-1651	Ger.	4423	8481	76098	15912	15912	1	3.6	Si
577	0.101	7.1	0	-2371	Ger.	-6494	-8481	-76098	-15912	-15912	1	2.45	Si
592	0	7.1	0	-1728	Ger.	4345	8481	76098	0	8481	1	1.95	Si
592	0	7.1	0	-2448	Ger.	-6571	-8481	-76098	0	-8481	1	1.29	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	4824	SLD 13	4824	9724	75134	0	9724	1	2.02	Si
15	0.101	9.74	0	4747	SLD 13	4747	9368	75134	15710	15710	1	3.31	Si
296	0.061	7.1	0	559	SLD 3	559	8479	76069	9640	9640	1	17.26	Si
296	0.061	7.1	0	-778	SLD 13	-778	-8479	-76069	-9640	-9640	1	12.39	Si
577	0.101	7.1	0	-2213	SLD 1	-2213	-8481	-76098	-15912	-15912	1	7.19	Si
592	0	7.1	0	-2290	SLD 1	-2290	-8481	-76098	0	-8481	1	3.7	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-510172	3	-476095	22.9	199.2	333.8	3600	-464829	2	-433456	20.9	149.4			Si
15	-444225	3	-444225	21.4	199.2	311.5	3600	-404157	2	-404157	19.4	149.4			Si
296	333766	3	333766	15.9	199.2	236.4	3600	303837	2	303837	14.5	149.4			Si
577	-226638	2	-226638	11.3	199.2	169.5	3600	-213614	1	-213614	10.7	149.4			Si
592	-260629	2	-242925	12.1	199.2	181.7	3600	-244986	1	-228624	11.4	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente						Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.002	0.002	0.002	0.001	0.002	0.002	0.001	0.001	0.002	0.002	0.004	2	0.004	2	9999	Si
296	0.067	0.06	0.056	0.05	0.062	0.06	0.052	0.05	0.061	0.06	0.132	2	0.131	2	4481	Si
577	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.007	2	0.007	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
1214	163.8	5.9	50	0.01	0.00041	0.0153	0	9368	75134	15710	15710	19034	19034	7344	-1280	SLV 3	Si
1776	429.5	4.9	50	0.007	0.00092	0.01239	0	8481	76098	15912	15912	15426	15912	-6494	-1077	SLV 1	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	1536	-3497	-4575	2483	1536	7419	5349	5484
15	1461	-3572	-4575	2406	1461	7344	5349	5407
296	0	-5033	-4575	-1298	0	5884	5349	1079
577	-1461	-6494	-4575	-2371	-1461	4423	5349	-1651
592	-1538	-6571	-4575	-2448	-1538	4345	5349	-1728

Momenti resistenti a filo appoggi

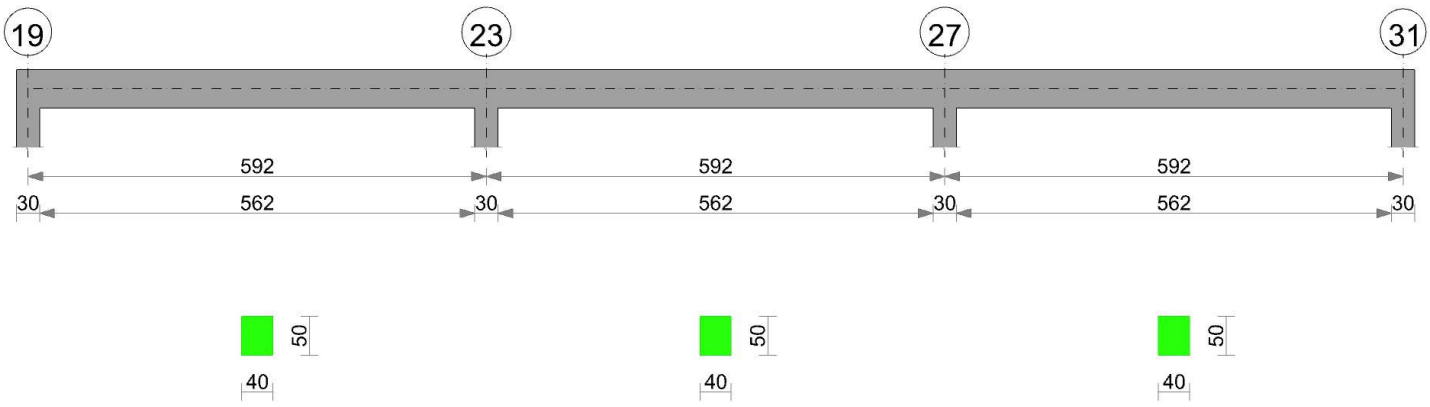
campata	x	appoggio	momento positivo	momento negativo
1	15	18	1199496	-1199496
1	577	22	1199891	-1831003
2	15	22	1199891	-1831003
2	577	26	1371922	-1806447
3	15	26	1371922	-1806447
3	577	30	1199496	-1199496

Controllo diametro delle barre longitudinali nei nodi

Nessun nodo è da verificare

Trave a "Copertura" 19-31

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Elenco delle sezioni

N°	Descrizione	Tipo	Base	Altezza	Copriferro sup.	Copriferro inf.	Copriferro lat.
1	R 40x50	Rettangolare	40	50	3.5	3.5	3.5

Diagramma verifica stato limite ultimo flessione

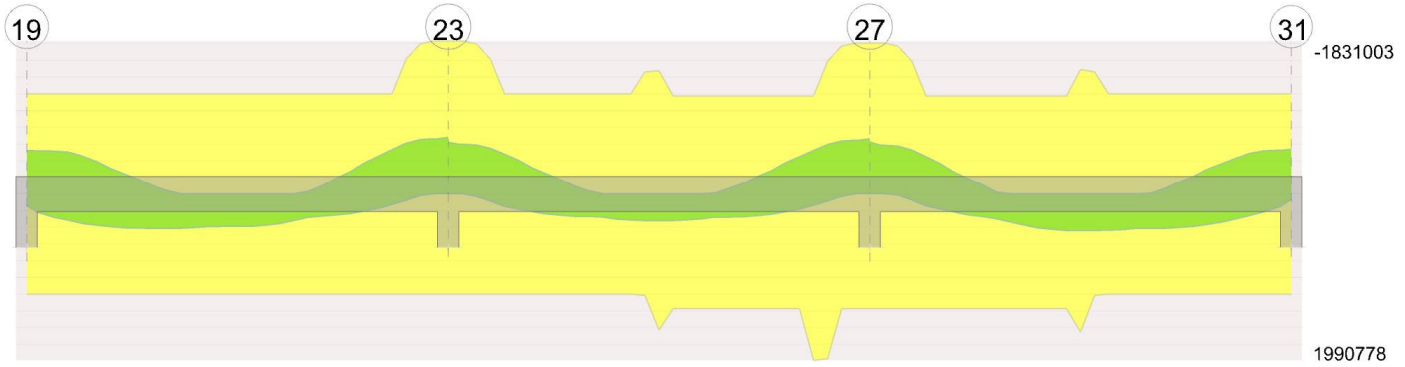


Diagramma verifica stato limite ultimo taglio

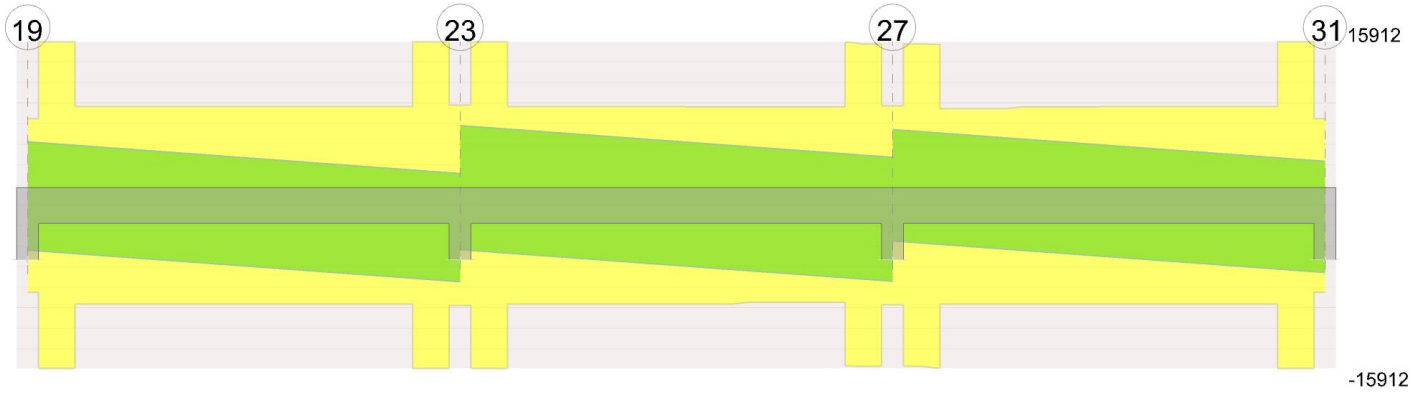
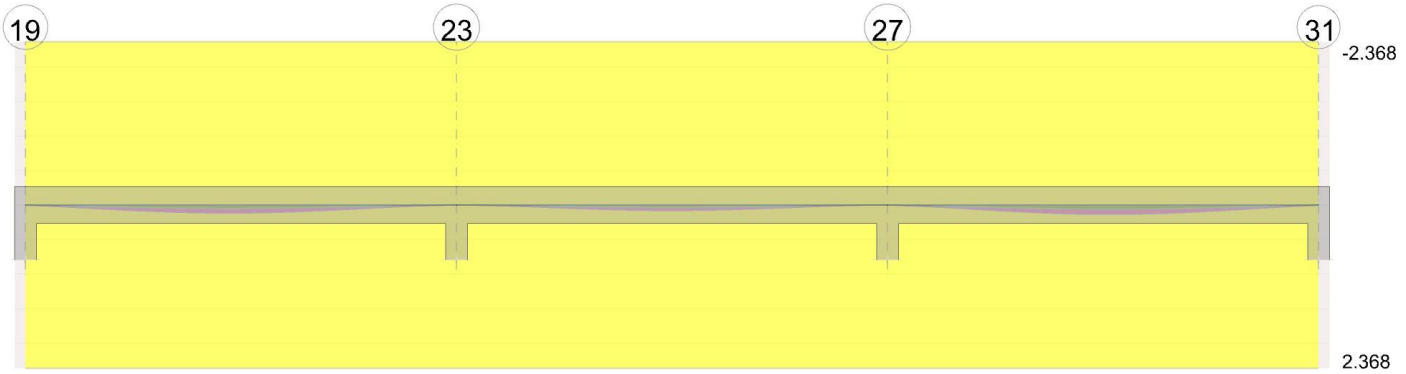


Diagramma verifica stato limite esercizio quasi permanente freccia



Output campate

Campata 1 tra i fili 19 - 23, sezione R 40x50, aste 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	7.1	5.1	7.1	5.1							-279937	SLU 7	-262553	-1199496	0.109	4.57	Si
15	7.1	5.1	7.1	5.1							-245900	SLU 7	-245900	-1199496	0.109	4.88	Si
296	7.1	5.1	7.1	5.1	390892	SLU 7	391948	1199496	0.109	3.06							Si
577	11.12	5.1	7.1	5.1							-620186	SLU 8	-620186	-1831003	0.132	2.95	Si
592	11.12	5.1	7.1	5.1							-699661	SLU 8	-659558	-1831003	0.132	2.78	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	7.1	5.1	7.1	5.1	140739	SLV 15	140739	1199496	0.109	8.52	-532899	SLV 1	-526736	-1199496	0.109	2.28	Si
15	7.1	5.1	7.1	5.1	176844	SLV 15	223330	1199496	0.109	5.37	-521135	SLV 1	-521135	-1199496	0.109	2.3	Si
296	7.1	5.1	7.1	5.1	306608	SLV 15	344236	1199496	0.109	3.48							Si
513	7.1	5.1	7.1	5.1	76138	SLV 1	129246	1199496	0.109	9.28	-452104	SLV 15	-535524	-1199496	0.109	2.24	Si
577	11.12	5.1	7.1	5.1							-665315	SLV 15	-665315	-1831003	0.132	2.75	Si
592	11.12	5.1	7.1	5.1							-699574	SLV 15	-682156	-1831003	0.132	2.68	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	7.1	5.1	7.1	5.1							-385120	SLD 1	-376286	-1199496	0.109	3.19	Si
15	7.1	5.1	7.1	5.1	23722	SLD 15	63043	1199496	0.109	19.03	-368014	SLD 1	-368014	-1199496	0.109	3.26	Si
296	7.1	5.1	7.1	5.1	289829	SLD 15	311438	1199496	0.109	3.85							Si

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
513	7.1	5.1	7.1	5.1	-39608	SLD 1	19825	1199496	0.109	60.5	-336358	SLD 15	-413763	-1199496	0.109	2.9	Si
577	11.12	5.1	7.1	5.1							-562251	SLD 15	-562251	-1831003	0.132	3.26	Si
592	11.12	5.1	7.1	5.1							-605911	SLD 15	-583796	-1831003	0.132	3.14	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	7.1	0	2335	SLU 8	2335	8481	76098	0	8481	1	3.63	Si
15	0.101	7.1	0	2238	SLU 8	2238	8481	76098	15912	15912	1	7.11	Si
296	0.061	7.1	0	-768	SLU 8	-768	-8481	-76098	-9644	-9644	1	12.56	Si
577	0.101	9.74	0	-5327	SLU 7	-5327	-9422	-76072	-15906	-15906	1	2.99	Si
592	0	10.9	0	-5425	SLU 7	-5425	-9781	-76072	0	-9781	1	1.8	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	7.1	0	2445	Ger.	6236	8481	76098	0	8481	1	1.36	Si
0	0	7.1	0	822	Ger.	-4392	-8481	-76098	0	-8481	1	1.93	Si
15	0.101	7.1	0	2370	Ger.	6156	8481	76098	15912	15912	1	2.58	Si
15	0.101	7.1	0	747	Ger.	-4472	-8481	-76098	-15912	-15912	1	3.56	Si
296	0.061	7.1	0	884	Ger.	4696	8481	76098	9644	9644	1	2.05	Si
296	0.061	7.1	0	-1893	Ger.	-5932	-8481	-76098	-9644	-9644	1	1.63	Si
577	0.101	9.74	0	-2245	Ger.	3237	9422	76072	15906	15906	1	4.91	Si
577	0.101	9.74	0	-5096	Ger.	-7391	-9422	-76072	-15906	-15906	1	2.15	Si
592	0	10.9	0	-2320	Ger.	3157	9781	76072	0	9781	1	3.1	Si
592	0	10.9	0	-5171	Ger.	-7471	-9781	-76072	0	-9781	1	1.31	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	7.1	0	2088	SLD 15	2088	8481	76098	0	8481	1	4.06	Si
15	0.101	7.1	0	2013	SLD 15	2013	8481	76098	15912	15912	1	7.9	Si
296	0.061	7.1	0	275	SLD 1	275	8481	76098	9644	9644	1	35.08	Si
296	0.061	7.1	0	-1284	SLD 15	-1284	-8481	-76098	-9644	-9644	1	7.51	Si
577	0.101	9.74	0	-4469	SLD 1	-4469	-9422	-76072	-15906	-15906	1	3.56	Si
592	0	10.9	0	-4544	SLD 1	-4544	-9781	-76072	0	-9781	1	2.15	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-213310	2	-200098	10	199.2	149.7	3600	-200141	1	-187967	9.4	149.4			Si
15	-187448	2	-187448	9.3	199.2	140.2	3600	-176355	1	-176355	8.8	149.4			Si
296	296499	2	297278	14.8	199.2	222.3	3600	269283	1	269850	13.5	149.4			Si
577	-470243	3	-470243	22.9	199.2	329	3600	-429917	2	-429917	20.9	149.4			Si
592	-530731	3	-500206	24.3	199.2	350	3600	-485543	2	-457449	22.3	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.003	0.003	0.003	0.002	0.003	0.003	0.002	0.002	0.003	0.003	0.006	2	0.006	2	9999	Si
276	0.055	0.049	0.048	0.043	0.051	0.049	0.045	0.043	0.05	0.049	0.114	1	0.113	1	5207	Si
296	0.055	0.049	0.048	0.043	0.05	0.049	0.044	0.043	0.049	0.049	0.113	1	0.113	1	5235	Si
577	0.001	0.001	0.001	0	0.001	0.001	0.001	0	0.001	0.001	0.002	1	0.001	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
30	407.3	4.9	50	0.007	0.00098	0.01283	0	8481	76098	15912	15912	15399	15912	6156	-465	SLV 13	Si
592	185.6	6	50	0.01	0.00054	0.01543	0	9422	76072	15906	15906	18235	18235	-7391	-422	SLV 15	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	1539	-4392	-5392	822	1539	6236	4269	2445
15	1459	-4472	-5392	747	1459	6156	4269	2370
296	0	-5932	-5392	-1893	0	4696	4269	884
577	-1459	-7391	-5392	-5096	-1459	3237	4269	-2245
592	-1539	-7471	-5392	-5171	-1539	3157	4269	-2320

Campata 2 tra i fili 23 - 27, sezione R 40x50, aste 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.1	7.1	5.1							-664434	SLU 7	-623582	-1831003	0.132	2.94	Si
15	11.12	5.1	7.1	5.1							-583459	SLU 7	-583459	-1831003	0.132	3.14	Si
296	8.99	5.7	9.7	5.1	321931	SLU 7	321931	1629644	0.131	5.06							Si
577	11.12	5.6	8.04	5.1							-602357	SLU 8	-602357	-1806447	0.133	3	Si
592	11.12	5.6	8.04	5.1							-680726	SLU 8	-641176	-1806447	0.133	2.82	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.1	7.1	5.1							-632195	SLV 1	-615813	-1831003	0.132	2.97	Si
15	11.12	5.1	7.1	5.1							-600013	SLV 1	-600013	-1831003	0.132	3.05	Si
296	8.99	5.7	9.7	5.1	237461	SLV 3	254170	1629644	0.131	6.41							Si
513	7.1	5.9	12.06	5.1	84719	SLV 1	137632	1990778	0.151	14.46	-449386	SLV 15	-525805	-1176014	0.113	2.24	Si
577	11.12	5.6	8.04	5.1							-647769	SLV 15	-647769	-1806447	0.133	2.79	Si
592	11.12	5.6	8.04	5.1							-680741	SLV 15	-663955	-1806447	0.133	2.72	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.1	7.1	5.1							-554255	SLD 1	-532392	-1831003	0.132	3.44	Si
15	11.12	5.1	7.1	5.1							-511100	SLD 1	-511100	-1831003	0.132	3.58	Si
296	8.99	5.7	9.7	5.1	231797	SLD 3	238091	1629644	0.131	6.84							Si
513	7.1	5.9	12.06	5.1	-32859	SLD 1	24912	1990778	0.151	79.91	-331808	SLD 15	-403660	-1176014	0.113	2.91	Si
577	11.12	5.6	8.04	5.1							-545658	SLD 15	-545658	-1806447	0.133	3.31	Si
592	11.12	5.6	8.04	5.1							-588168	SLD 15	-566622	-1806447	0.133	3.19	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5497	SLU 8	5497	9781	76072	0	9781	1	1.78	Si
15	0.101	9.74	0	5399	SLU 8	5399	9422	76072	15906	15906	1	2.95	Si
296	0.061	7.1	0	-447	SLU 8	-447	-8479	-76067	-9640	-9640	1	21.55	Si
577	0.101	9.74	0	-5193	SLU 7	-5193	-9368	-75134	-15710	-15710	1	3.03	Si
592	0	10.9	0	-5291	SLU 7	-5291	-9724	-75134	0	-9724	1	1.84	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5522	Ger.	7803	9781	76072	0	9781	1	1.25	Si
0	0	10.9	0	2182	Ger.	-4350	-9781	-76072	0	-9781	1	2.25	Si
15	0.101	9.74	0	5447	Ger.	7728	9422	76072	15906	15906	1	2.06	Si
15	0.101	9.74	0	2107	Ger.	-4425	-9422	-76072	-15906	-15906	1	3.59	Si
296	0.061	7.1	0	890	Ger.	6269	8479	76067	9640	9640	1	1.54	Si
296	0.061	7.1	0	-1480	Ger.	-5884	-8479	-76067	-9640	-9640	1	1.64	Si
577	0.101	9.74	0	-2158	Ger.	4810	9368	75134	15710	15710	1	3.27	Si
577	0.101	9.74	0	-5072	Ger.	-7344	-9368	-75134	-15710	-15710	1	2.14	Si
592	0	10.9	0	-2233	Ger.	4729	9724	75134	0	9724	1	2.06	Si
592	0	10.9	0	-5147	Ger.	-7424	-9724	-75134	0	-9724	1	1.31	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	4790	SLD 15	4790	9781	76072	0	9781	1	2.04	Si
15	0.101	9.74	0	4715	SLD 15	4715	9422	76072	15906	15906	1	3.37	Si
296	0.061	7.1	0	369	SLD 1	369	8479	76067	9640	9640	1	26.16	Si
296	0.061	7.1	0	-958	SLD 15	-958	-8479	-76067	-9640	-9640	1	10.06	Si
577	0.101	9.74	0	-4435	SLD 1	-4435	-9368	-75134	-15710	-15710	1	3.54	Si
592	0	10.9	0	-4510	SLD 1	-4510	-9724	-75134	0	-9724	1	2.16	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-504421	2	-473363	23	199.2	331.2	3600	-460989	1	-432313	21	149.4			Si
15	-442866	2	-442866	21.5	199.2	309.9	3600	-404199	1	-404199	19.7	149.4			Si
296	244700	2	244700	11.7	199.2	173.9	3600	225592	1	225592	10.8	149.4			Si
577	-455925	3	-455925	21.9	199.2	319.7	3600	-416258	2	-416258	20	149.4			Si
592	-515495	3	-485429	23.4	199.2	340.4	3600	-471042	2	-443369	21.3	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0	0	0	0	0	0	0	0	0	0	0	2	0	2	9999	Si
296	0.037	0.034	0.032	0.029	0.035	0.034	0.03	0.029	0.035	0.034	0.077	1	0.076	1	7725	Si
577	0	0	0	0	0	0	0	0	0	0	0	1	0	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
622	187.4	6	50	0.01	0.00048	0.01495	0	9422	76072	15906	15906	18253	18253	7728	-1216	SLV 1	Si
1184	200.3	5.9	50	0.01	0.00056	0.0153	0	9368	75134	15710	15710	17643	17643	-7344	-436	SLV 15	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	1534	-4350	-5349	2182	1534	7803	5699	5522
15	1459	-4425	-5349	2107	1459	7728	5699	5447
296	0	-5884	-5349	-1480	0	6269	5699	890
577	-1459	-7344	-5349	-5072	-1459	4810	5699	-2158
592	-1540	-7424	-5349	-5147	-1540	4729	5699	-2233

Campata 3 tra i fili 27 - 31, sezione R 40x50, aste 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.6	8.04	5.1							-672696	SLU 8	-627780	-1806447	0.133	2.88	Si
15	11.12	5.6	8.04	5.1							-585762	SLU 8	-585762	-1806447	0.133	3.08	Si
296	9.09	5.7	9.84	5.1	440336	SLU 8	440336	1652284	0.132	3.75							Si
335	7.1	5.1	7.1	5.1	429109	SLU 8	436136	1199496	0.109	2.75							Si
577	7.1	5.1	7.1	5.1							-297068	SLU 7	-297068	-1199496	0.109	4.04	Si
592	7.1	5.1	7.1	5.1							-341745	SLU 7	-318480	-1199496	0.109	3.77	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.6	8.04	5.1							-625679	SLV 1	-606075	-1806447	0.133	2.98	Si
15	11.12	5.6	8.04	5.1							-588033	SLV 1	-588033	-1806447	0.133	3.07	Si
296	9.09	5.7	9.84	5.1	353615	SLV 1	374787	1652284	0.132	4.41							Si
577	7.1	5.1	7.1	5.1	104506	SLV 1	152042	1199496	0.109	7.89	-527866	SLV 15	-527866	-1199496	0.109	2.27	Si
592	7.1	5.1	7.1	5.1	67543	SLV 1	67543	1199496	0.109	17.76	-553898	SLV 15	-540273	-1199496	0.109	2.22	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	11.12	5.6	8.04	5.1							-555657	SLD 1	-530878	-1806447	0.133	3.4	Si
15	11.12	5.6	8.04	5.1							-507885	SLD 1	-507885	-1806447	0.133	3.56	Si
296	9.09	5.7	9.84	5.1	331619	SLD 1	342056	1652284	0.132	4.83							Si
577	7.1	5.1	7.1	5.1	-34102	SLD 1	10210	1199496	0.109	117.48	-389258	SLD 15	-389258	-1199496	0.109	3.08	Si
592	7.1	5.1	7.1	5.1							-417694	SLD 15	-402837	-1199496	0.109	2.98	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5702	SLU 8	5702	9724	75134	0	9724	1	1.71	Si
15	0.101	9.74	0	5602	SLU 8	5602	9368	75134	15710	15710	1	2.8	Si
296	0.061	7.1	0	-149	SLU 7	-149	-8479	-76069	-9640	-9640	1	64.71	Si
577	0.101	7.1	0	-2872	SLU 8	-2872	-8481	-76098	-15912	-15912	1	5.54	Si

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
592	0	7.1	0	-2972	SLU 8	-2972	-8481	-76098	0	-8481	1	2.85	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	5483	Ger.	7419	9724	75134	0	9724	1	1.31	Si
0	0	10.9	0	2483	Ger.	-3497	-9724	-75134	0	-9724	1	2.78	Si
15	0.101	9.74	0	5407	Ger.	7344	9368	75134	15710	15710	1	2.14	Si
15	0.101	9.74	0	2406	Ger.	-3572	-9368	-75134	-15710	-15710	1	4.4	Si
296	0.061	7.1	0	1079	Ger.	5884	8479	76069	9640	9640	1	1.64	Si
296	0.061	7.1	0	-1298	Ger.	-5033	-8479	-76069	-9640	-9640	1	1.92	Si
577	0.101	7.1	0	-1649	Ger.	4423	8481	76098	15912	15912	1	3.6	Si
577	0.101	7.1	0	-2370	Ger.	-6494	-8481	-76098	-15912	-15912	1	2.45	Si
592	0	7.1	0	-1726	Ger.	4345	8481	76098	0	8481	1	1.95	Si
592	0	7.1	0	-2447	Ger.	-6571	-8481	-76098	0	-8481	1	1.29	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	10.9	0	4823	SLD 15	4823	9724	75134	0	9724	1	2.02	Si
15	0.101	9.74	0	4746	SLD 15	4746	9368	75134	15710	15710	1	3.31	Si
296	0.061	7.1	0	559	SLD 1	559	8479	76069	9640	9640	1	17.26	Si
296	0.061	7.1	0	-778	SLD 15	-778	-8479	-76069	-9640	-9640	1	12.4	Si
577	0.101	7.1	0	-2212	SLD 3	-2212	-8481	-76098	-15912	-15912	1	7.19	Si
592	0	7.1	0	-2288	SLD 3	-2288	-8481	-76098	0	-8481	1	3.71	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-510178	3	-476106	22.9	199.2	333.8	3600	-464837	2	-433467	20.9	149.4			Si
15	-444239	3	-444239	21.4	199.2	311.5	3600	-404171	2	-404171	19.4	149.4			Si
296	333777	3	333777	15.9	199.2	236.4	3600	303848	2	303848	14.5	149.4			Si
577	-226511	2	-226511	11.3	199.2	169.4	3600	-213493	1	-213493	10.6	149.4			Si
592	-260475	2	-242785	12.1	199.2	181.6	3600	-244840	1	-228491	11.4	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.002	0.002	0.002	0.001	0.002	0.002	0.001	0.001	0.002	0.002	0.004	2	0.004	2	9999	Si
296	0.067	0.06	0.056	0.05	0.062	0.06	0.052	0.05	0.061	0.06	0.132	2	0.131	2	4481	Si
577	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.007	2	0.007	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
1214	163.8	5.9	50	0.01	0.00041	0.0153	0	9368	75134	15710	15710	19033	19033	7344	-1273	SLV 1	Si
1776	428.2	4.9	50	0.007	0.00094	0.01239	0	8481	76098	15912	15912	15435	15912	-6494	-1273	SLV 1	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	1536	-3497	-4575	2483	1536	7419	5349	5483
15	1461	-3572	-4575	2406	1461	7344	5349	5407
296	0	-5033	-4575	-1298	0	5884	5349	1079
577	-1461	-6494	-4575	-2370	-1461	4423	5349	-1649
592	-1538	-6571	-4575	-2447	-1538	4345	5349	-1726

Momenti resistenti a filo appoggi

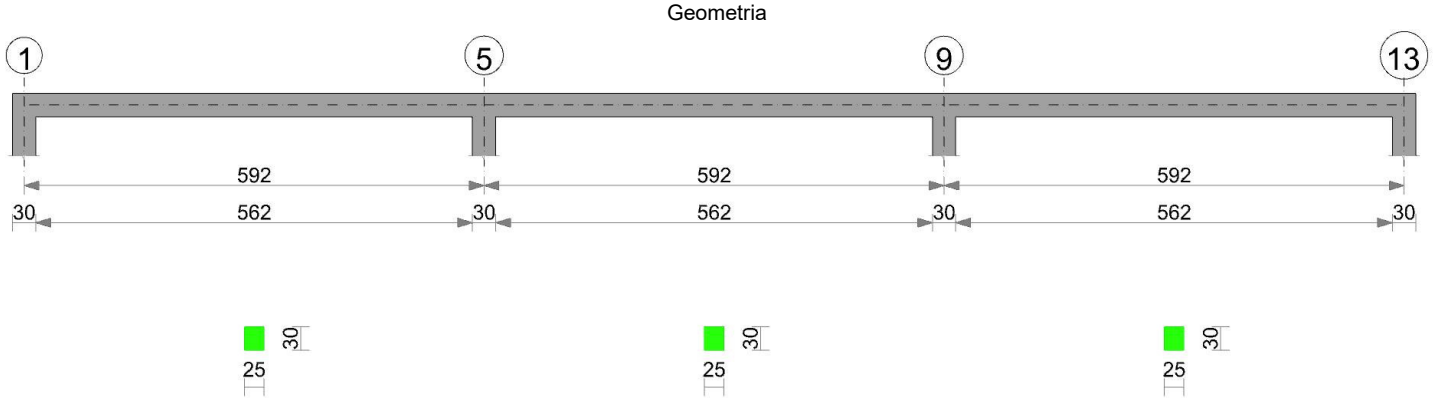
campata	x	appoggio	momento positivo	momento negativo
1	15	19	1199496	-1199496
1	577	23	1199891	-1831003
2	15	23	1199891	-1831003
2	577	27	1371922	-1806447
3	15	27	1371922	-1806447
3	577	31	1199496	-1199496

Controllo diametro delle barre longitudinali nei nodi

Nessun nodo è da verificare

Trave a "Piano 1" 1-13

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Elenco delle sezioni

N°	Descrizione	Tipo	Base	Altezza	Copriferro sup.	Copriferro inf.	Copriferro lat.
1	R 25x30	Rettangolare	25	30	3.5	3.5	3.5

Diagramma verifica stato limite ultimo flessione

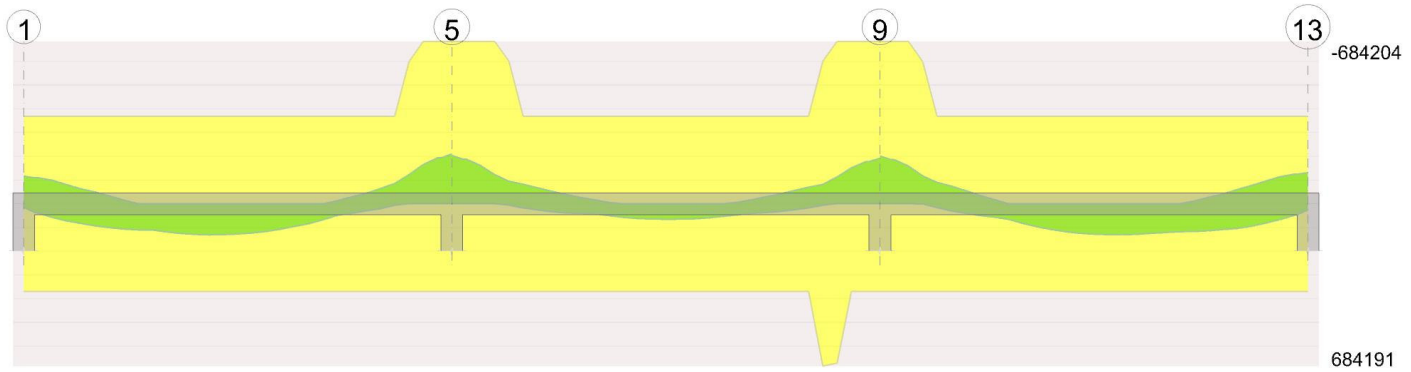


Diagramma verifica stato limite ultimo taglio

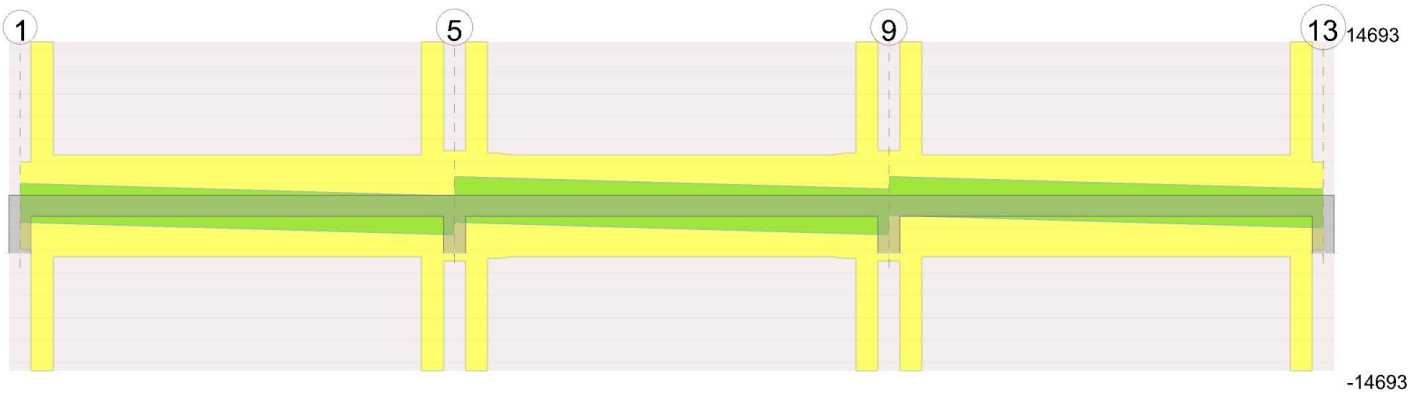
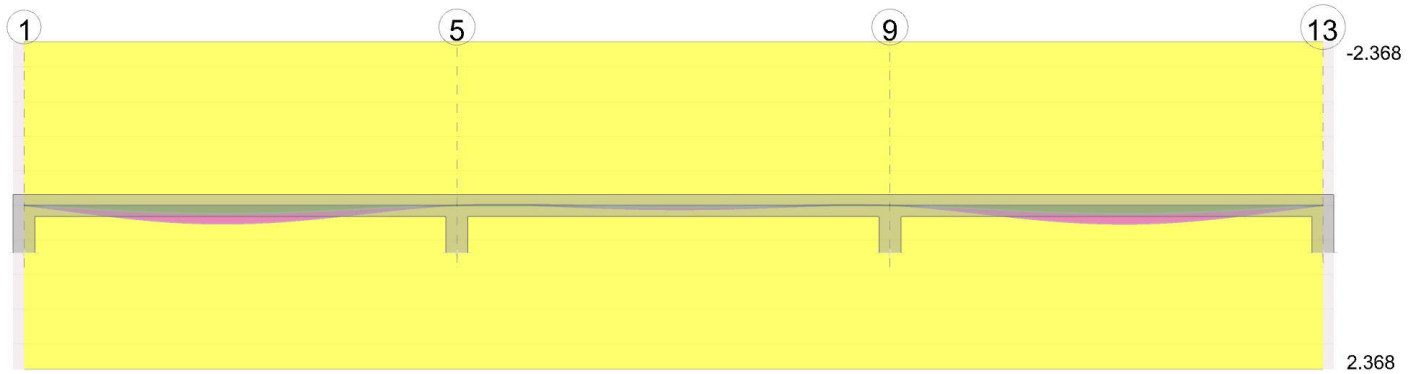


Diagramma verifica stato limite esercizio quasi permanente freccia



Output campate

Campata 1 tra i fili 1 - 5, sezione R 25x30, aste 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	4.02	5.1	4.02	5.1							-99249	SLU 10	-88370	-368751	0.191	4.17	Si
15	4.02	5.1	4.02	5.1							-78290	SLU 10	-78290	-368751	0.191	4.71	Si
257	4.02	5.1	4.02	5.1	131333	SLU 9	131333	368751	0.191	2.81							Si
296	4.02	5.1	4.02	5.1	125806	SLU 9	127651	368751	0.191	2.89							Si
577	8.04	5.1	4.02	5.1							-193535	SLU 10	-193535	-684204	0.265	3.54	Si
592	8.04	5.1	4.02	5.1							-226002	SLU 10	-209227	-684204	0.265	3.27	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	4.02	5.1	4.02	5.1	15564	SLV 13	15564	368751	0.191	23.69	-122645	SLV 3	-115956	-368751	0.191	3.18	Si
15	4.02	5.1	4.02	5.1	27651	SLV 13	36273	368751	0.191	10.17	-109800	SLV 3	-109800	-368751	0.191	3.36	Si
296	4.02	5.1	4.02	5.1	87581	SLV 15	92053	368751	0.191	4.01							Si
577	8.04	5.1	4.02	5.1							-137559	SLV 15	-137559	-684204	0.265	4.97	Si
592	8.04	5.1	4.02	5.1							-152100	SLV 15	-144542	-684204	0.265	4.73	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	4.02	5.1	4.02	5.1							-92345	SLD 3	-85741	-368751	0.191	4.3	Si
15	4.02	5.1	4.02	5.1	-2482	SLD 13	6263	368751	0.191	58.88	-79666	SLD 3	-79666	-368751	0.191	4.63	Si

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
217	4.02	5.1	4.02	5.1	95010	SLD 13	95010	368751	0.191	3.88							Si
296	4.02	5.1	4.02	5.1	81961	SLD 15	85091	368751	0.191	4.33							Si
577	8.04	5.1	4.02	5.1							-126178	SLD 15	-126178	-684204	0.265	5.42	Si
592	8.04	5.1	4.02	5.1							-142651	SLD 15	-134103	-684204	0.265	5.1	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	4.02	0	1382	SLU 9	1382	3935	26350	0	3935	1	2.85	Si
15	0.168	4.02	0	1344	SLU 9	1344	3935	26350	14693	14693	1	10.93	Si
296	0.052	4.02	0	-186	SLU 9	-186	-3935	-26350	-4566	-4566	1	24.56	Si
577	0.168	8.04	0	-2092	SLU 9	-2092	-4958	-26350	-14693	-14693	1	7.02	Si
592	0	8.04	0	-2130	SLU 9	-2130	-4958	-26350	0	-4958	1	2.33	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	4.02	0	850	Ger.	2000	3935	26350	0	3935	1	1.97	Si
0	0	4.02	0	800	Ger.	-1506	-3935	-26350	0	-3935	1	2.61	Si
15	0.168	4.02	0	821	Ger.	1972	3935	26350	14693	14693	1	7.45	Si
15	0.168	4.02	0	771	Ger.	-1534	-3935	-26350	-14693	-14693	1	9.58	Si
296	0.052	4.02	0	129	Ger.	1445	3935	26350	4566	4566	1	3.16	Si
296	0.052	4.02	0	-414	Ger.	-2061	-3935	-26350	-4566	-4566	1	2.22	Si
533	0.052	4.02	0	-799	Ger.	1001	3935	26350	4566	4566	1	4.56	Si
533	0.052	4.02	0	-844	Ger.	-2505	-3935	-26350	-4566	-4566	1	1.82	Si
577	0.168	8.04	0	-927	Ger.	918	4958	26350	14693	14693	1	16.01	Si
577	0.168	8.04	0	-1509	Ger.	-2588	-4958	-26350	-14693	-14693	1	5.68	Si
592	0	8.04	0	-955	Ger.	890	4958	26350	0	4958	1	5.57	Si
592	0	8.04	0	-1537	Ger.	-2616	-4958	-26350	0	-4958	1	1.9	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	4.02	0	839	SLD 3	839	3935	26350	0	3935	1	4.69	Si
15	0.168	4.02	0	810	SLD 3	810	3935	26350	14693	14693	1	18.14	Si
296	0.052	4.02	0	10	SLD 3	10	3935	26350	4566	4566	1	448.61	Si
296	0.052	4.02	0	-295	SLD 13	-295	-3935	-26350	-4566	-4566	1	15.49	Si
577	0.168	8.04	0	-1381	SLD 3	-1381	-4958	-26350	-14693	-14693	1	10.64	Si
592	0	8.04	0	-1410	SLD 3	-1410	-4958	-26350	0	-4958	1	3.52	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-70017	5	-62169	13.7	199.2	205.5	3600	-53540	2	-47045	10.4	149.4			Si
15	-54911	5	-54911	12.1	199.2	181.5	3600	-41074	2	-41074	9.1	149.4			Si
296	90660	4	92077	20.3	199.2	304.3	3600	74764	2	76175	16.8	149.4			Si
577	-138521	5	-138521	29.4	199.2	405.3	3600	-111602	2	-111602	23.7	149.4			Si
592	-161821	5	-149775	31.8	199.2	438.3	3600	-130549	2	-120733	25.7	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente						Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.01	0.007	0.008	0.006	0.009	0.007	0.007	0.006	0.008	0.007	0.019	2	0.014	2	9999	Si
276	0.142	0.084	0.122	0.073	0.125	0.085	0.108	0.073	0.119	0.085	0.266	2	0.19	2	2224	Si
296	0.14	0.083	0.121	0.072	0.123	0.083	0.106	0.072	0.118	0.083	0.263	2	0.187	2	2247	Si
577	0.003	0.002	0.003	0.002	0.003	0.002	0.003	0.002	0.003	0.002	0.007	2	0.005	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
30	147.2	4.7	30	0.011	0.00062	0.01704	0	3935	26350	14693	14693	13642	14693	1972	629	SLV 1	Si
592	140.5	6.6	30	0.016	0.00033	0.02238	0	4958	26350	14693	14693	14292	14693	-2588	244	SLV 9	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	555	-1506	-1874	800	555	2000	1313	850
15	527	-1534	-1874	771	527	1972	1313	821
296	0	-2061	-1874	-414	0	1445	1313	129
577	-527	-2588	-1874	-1509	-527	918	1313	-927
592	-555	-2616	-1874	-1537	-555	890	1313	-955

Campata 2 tra i fili 5 - 9, sezione R 25x30, aste 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-218577	SLU 10	-203176	-684204	0.265	3.37	Si
15	8.04	5.1	4.02	5.1							-188049	SLU 10	-188049	-684204	0.265	3.64	Si
296	4.02	5.1	4.02	5.1	65453	SLU 10	65453	368751	0.191	5.63							Si
577	8.04	5.1	4.02	5.1							-177121	SLU 9	-177121	-684204	0.265	3.86	Si
592	8.04	5.1	4.02	5.1							-207119	SLU 9	-191983	-684204	0.265	3.56	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-155496	SLV 3	-148638	-684204	0.265	4.6	Si
15	8.04	5.1	4.02	5.1							-141991	SLV 3	-141991	-684204	0.265	4.82	Si
99	4.02	5.1	4.02	5.1	12028	SLV 13	18033	368751	0.191	20.45	-74950	SLV 3	-81934	-368751	0.191	4.5	Si
296	4.02	5.1	4.02	5.1	35736	SLV 15	38107	368751	0.191	9.68							Si
577	8.04	5.1	4.02	5.1							-125582	SLV 15	-125582	-684204	0.265	5.45	Si
592	8.04	5.1	4.02	5.1							-137736	SLV 15	-131553	-684204	0.265	5.2	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-142394	SLD 3	-134630	-684204	0.265	5.08	Si
15	8.04	5.1	4.02	5.1							-127077	SLD 3	-127077	-684204	0.265	5.38	Si
296	4.02	5.1	4.02	5.1	34650	SLD 15	35757	368751	0.191	10.31							Si

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
577	8.04	5.1	4.02	5.1							-114417	SLD 15	-114417	-684204	0.265	5.98	Si
592	8.04	5.1	4.02	5.1							-128810	SLD 15	-121508	-684204	0.265	5.63	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	2053	SLU 10	2053	4958	26350	0	4958	1	2.41	Si
15	0.168	8.04	0	2017	SLU 10	2017	4958	26350	14693	14693	1	7.28	Si
296	0.052	4.02	0	68	SLU 10	68	3935	26350	4566	4566	1	67.27	Si
577	0.168	8.04	0	-1982	SLU 9	-1982	-4958	-26350	-14693	-14693	1	7.41	Si
592	0	8.04	0	-2018	SLU 9	-2018	-4958	-26350	0	-4958	1	2.46	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1471	Ger.	2617	4958	26350	0	4958	1	1.89	Si
0	0	8.04	0	909	Ger.	-1507	-4958	-26350	0	-4958	1	3.29	Si
15	0.168	8.04	0	1443	Ger.	2589	4958	26350	14693	14693	1	5.68	Si
15	0.168	8.04	0	881	Ger.	-1535	-4958	-26350	-14693	-14693	1	9.57	Si
296	0.052	4.02	0	286	Ger.	2062	3935	26350	4566	4566	1	2.21	Si
296	0.052	4.02	0	-231	Ger.	-2062	-3935	-26350	-4566	-4566	1	2.21	Si
513	0.052	4.02	0	-597	Ger.	1655	3935	26350	4566	4566	1	2.76	Si
513	0.052	4.02	0	-725	Ger.	-2469	-3935	-26350	-4566	-4566	1	1.85	Si
577	0.168	8.04	0	-791	Ger.	1535	4958	26350	14693	14693	1	9.57	Si
577	0.168	8.04	0	-1483	Ger.	-2589	-4958	-26350	-14693	-14693	1	5.68	Si
592	0	8.04	0	-819	Ger.	1507	4958	26350	0	4958	1	3.29	Si
592	0	8.04	0	-1511	Ger.	-2617	-4958	-26350	0	-4958	1	1.89	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1348	SLD 15	1348	4958	26350	0	4958	1	3.68	Si
15	0.168	8.04	0	1320	SLD 15	1320	4958	26350	14693	14693	1	11.13	Si
296	0.052	4.02	0	172	SLD 1	172	3935	26350	4566	4566	1	26.5	Si
296	0.052	4.02	0	-118	SLD 15	-118	-3935	-26350	-4566	-4566	1	38.76	Si
577	0.168	8.04	0	-1331	SLD 3	-1331	-4958	-26350	-14693	-14693	1	11.04	Si
592	0	8.04	0	-1359	SLD 3	-1359	-4958	-26350	0	-4958	1	3.65	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-156326	5	-145291	30.9	199.2	425.2	3600	-125616	2	-116691	24.8	149.4			Si
15	-134467	5	-134467	28.6	199.2	393.5	3600	-107977	2	-107977	22.9	149.4			Si
296	45605	5	45605	10	199.2	150.7	3600	33258	2	33258	7.3	149.4			Si
577	-126211	4	-126211	26.8	199.2	369.3	3600	-100117	2	-100117	21.3	149.4			Si
592	-147671	4	-136836	29.1	199.2	400.4	3600	-117378	2	-108642	23.1	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	-0.002	-0.003	-0.002	-0.003	-0.002	-0.003	-0.002	-0.003	-0.002	-0.003	-0.006	1	-0.006	1	9999	Si
296	0.039	0.007	0.034	0.005	0.029	0.007	0.025	0.005	0.026	0.007	0.06	2	0.015	2	9847	Si
577	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.004	1	-0.004	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
622	215.3	6.6	30	0.016	0.00079	0.02237	0	4958	26350	14693	14693	13985	14693	2589	993	SLV 1	Si
1184	160.3	6.6	30	0.016	0.00032	0.02237	0	4958	26350	14693	14693	13985	14693	-2589	728	SLV 9	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	555	-1507	-1875	909	555	2617	1875	1471
15	527	-1535	-1875	881	527	2589	1875	1443
296	0	-2062	-1875	-231	0	2062	1875	286
577	-527	-2589	-1875	-1483	-527	1535	1875	-791
592	-555	-2617	-1875	-1511	-555	1507	1875	-819

Campata 3 tra i fili 9 - 13, sezione R 25x30, aste 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-217492	SLU 9	-201237	-684204	0.265	3.4	Si
15	8.04	5.1	4.02	5.1							-186041	SLU 9	-186041	-684204	0.265	3.68	Si
296	4.02	5.1	4.02	5.1	127410	SLU 9	128439	368751	0.191	2.87							Si
335	4.02	5.1	4.02	5.1	131214	SLU 9	131214	368751	0.191	2.81							Si
577	4.02	5.1	4.02	5.1							-81420	SLU 10	-81420	-368751	0.191	4.53	Si
592	4.02	5.1	4.02	5.1							-102442	SLU 10	-91531	-368751	0.191	4.03	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-158948	SLV 3	-151462	-684204	0.265	4.52	Si
15	8.04	5.1	4.02	5.1							-144547	SLV 3	-144547	-684204	0.265	4.73	Si
296	4.02	5.1	4.02	5.1	89331	SLV 1	94000	368751	0.191	3.92							Si
577	4.02	5.1	4.02	5.1	37734	SLV 1	46281	368751	0.191	7.97	-124355	SLV 15	-124355	-368751	0.191	2.97	Si
592	4.02	5.1	4.02	5.1	25746	SLV 1	25746	368751	0.191	14.32	-137392	SLV 15	-130605	-368751	0.191	2.82	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-143815	SLD 3	-135472	-684204	0.265	5.05	Si
15	8.04	5.1	4.02	5.1							-127742	SLD 3	-127742	-684204	0.265	5.36	Si
296	4.02	5.1	4.02	5.1	83466	SLD 1	86439	368751	0.191	4.27							Si
395	4.02	5.1	4.02	5.1	98732	SLD 1	98732	368751	0.191	3.73							Si
577	4.02	5.1	4.02	5.1	2199	SLD 1	10917	368751	0.191	33.78	-88821	SLD 15	-88821	-368751	0.191	4.15	Si
592	4.02	5.1	4.02	5.1							-101627	SLD 15	-94958	-368751	0.191	3.88	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	2064	SLU 9	2064	4958	26350	0	4958	1	2.4	Si
15	0.168	8.04	0	2026	SLU 9	2026	4958	26350	14693	14693	1	7.25	Si
296	0.052	4.02	0	285	SLU 9	285	3935	26350	4566	4566	1	16.02	Si
577	0.168	4.02	0	-1348	SLU 9	-1348	-3935	-26350	-14693	-14693	1	10.9	Si
592	0	4.02	0	-1386	SLU 9	-1386	-3935	-26350	0	-3935	1	2.84	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1451	Ger.	2616	4958	26350	0	4958	1	1.9	Si
0	0	8.04	0	947	Ger.	-890	-4958	-26350	0	-4958	1	5.57	Si
15	0.168	8.04	0	1422	Ger.	2588	4958	26350	14693	14693	1	5.68	Si
15	0.168	8.04	0	918	Ger.	-918	-4958	-26350	-14693	-14693	1	16.01	Si
59	0.052	4.02	0	810	Ger.	2505	3935	26350	4566	4566	1	1.82	Si
59	0.052	4.02	0	788	Ger.	-1001	-3935	-26350	-4566	-4566	1	4.56	Si
296	0.052	4.02	0	502	Ger.	2061	3935	26350	4566	4566	1	2.22	Si
296	0.052	4.02	0	-146	Ger.	-1445	-3935	-26350	-4566	-4566	1	3.16	Si
577	0.168	4.02	0	-765	Ger.	1534	3935	26350	14693	14693	1	9.58	Si
577	0.168	4.02	0	-833	Ger.	-1972	-3935	-26350	-14693	-14693	1	7.45	Si
592	0	4.02	0	-794	Ger.	1506	3935	26350	0	3935	1	2.61	Si
592	0	4.02	0	-862	Ger.	-2000	-3935	-26350	0	-3935	1	1.97	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1340	SLD 15	1340	4958	26350	0	4958	1	3.7	Si
15	0.168	8.04	0	1311	SLD 15	1311	4958	26350	14693	14693	1	11.2	Si
296	0.052	4.02	0	360	SLD 1	360	3935	26350	4566	4566	1	12.67	Si
296	0.052	4.02	0	-4	SLD 15	-4	-3935	-26350	-4566	-4566	1	1249.45	Si
577	0.168	4.02	0	-818	SLD 15	-818	-3935	-26350	-14693	-14693	1	17.96	Si
592	0	4.02	0	-847	SLD 15	-847	-3935	-26350	0	-3935	1	4.65	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-155394	4	-143741	30.5	199.2	420.6	3600	-124434	2	-114994	24.4	149.4			Si
15	-132862	4	-132862	28.2	199.2	388.8	3600	-106220	2	-106220	22.6	149.4			Si
296	91882	4	92677	20.4	199.2	306.3	3600	75954	2	76757	16.9	149.4			Si
577	-57273	5	-57273	12.6	199.2	189.3	3600	-43311	2	-43311	9.5	149.4			Si
592	-72427	5	-64555	14.2	199.2	213.4	3600	-55823	2	-49304	10.9	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.004	0.003	0.003	0.002	0.003	0.003	0.003	0.002	0.003	0.003	0.008	2	0.006	2	9999	Si
296	0.141	0.084	0.122	0.073	0.124	0.084	0.108	0.073	0.119	0.084	0.266	2	0.189	2	2224	Si
316	0.143	0.085	0.123	0.074	0.125	0.085	0.109	0.074	0.12	0.085	0.269	2	0.192	2	2202	Si
577	0.009	0.006	0.008	0.006	0.009	0.006	0.007	0.006	0.008	0.006	0.018	2	0.014	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
1214	165.3	6.6	30	0.016	0.00069	0.02238	0	4958	26350	14693	14693	13985	14693	2588	1105	SLV 1	Si
1776	158.1	4.7	30	0.011	0.00078	0.01704	0	3935	26350	14693	14693	13582	14693	-1972	553	SLV 13	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	555	-890	-1313	947	555	2616	1874	1451
15	527	-918	-1313	918	527	2588	1874	1422
296	0	-1445	-1313	-146	0	2061	1874	502
577	-527	-1972	-1313	-833	-527	1534	1874	-765
592	-555	-2000	-1313	-862	-555	1506	1874	-794

Momenti resistenti a filo appoggi

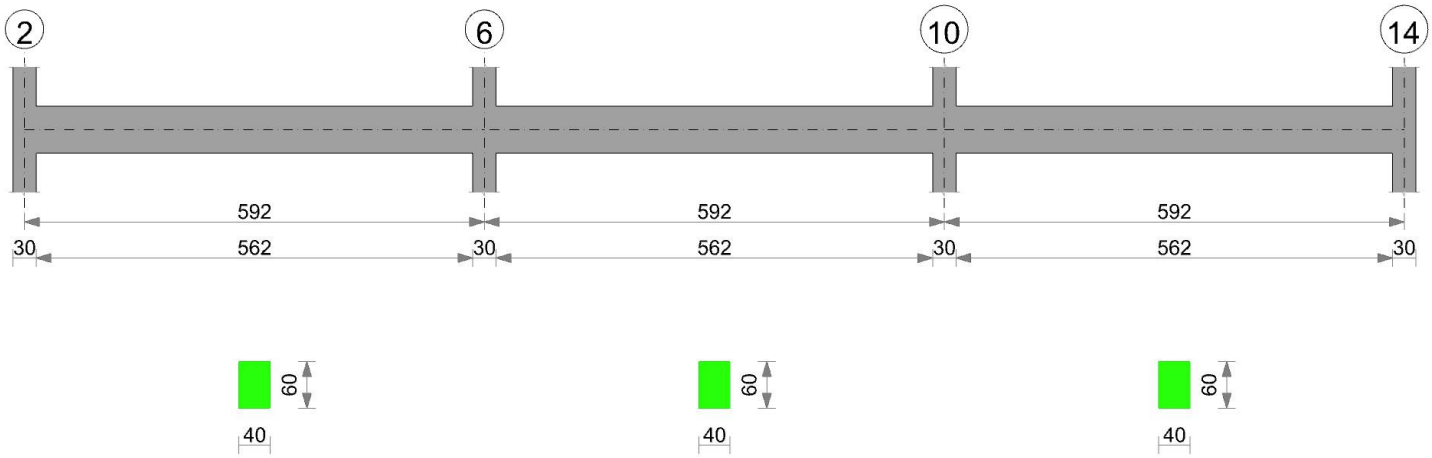
campata	x	appoggio	momento positivo	momento negativo
1	15	1	368751	-368751
1	577	5	369360	-684204
2	15	5	369360	-684204
2	577	9	369360	-684204
3	15	9	369360	-684204
3	577	13	368751	-368751

Controllo diametro delle barre longitudinali nei nodi

Nessun nodo è da verificare

Trave a "Piano 1" 2-14

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Elenco delle sezioni

N°	Descrizione	Tipo	Base	Altezza	Copriferro sup.	Copriferro inf.	Copriferro lat.
1	R 40x60	Rettangolare	40	60	3.5	3.5	3.5

Diagramma verifica stato limite ultimo flessione

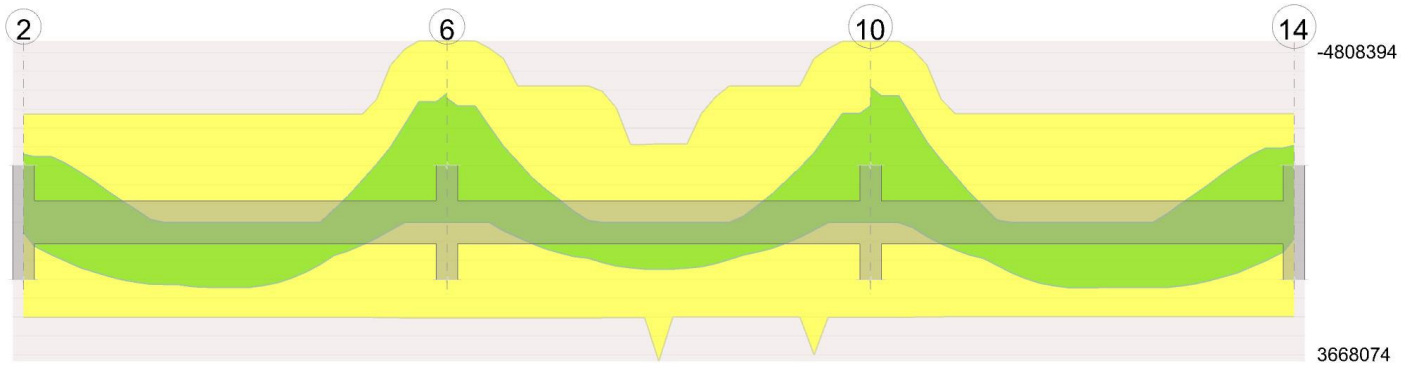


Diagramma verifica stato limite ultimo taglio

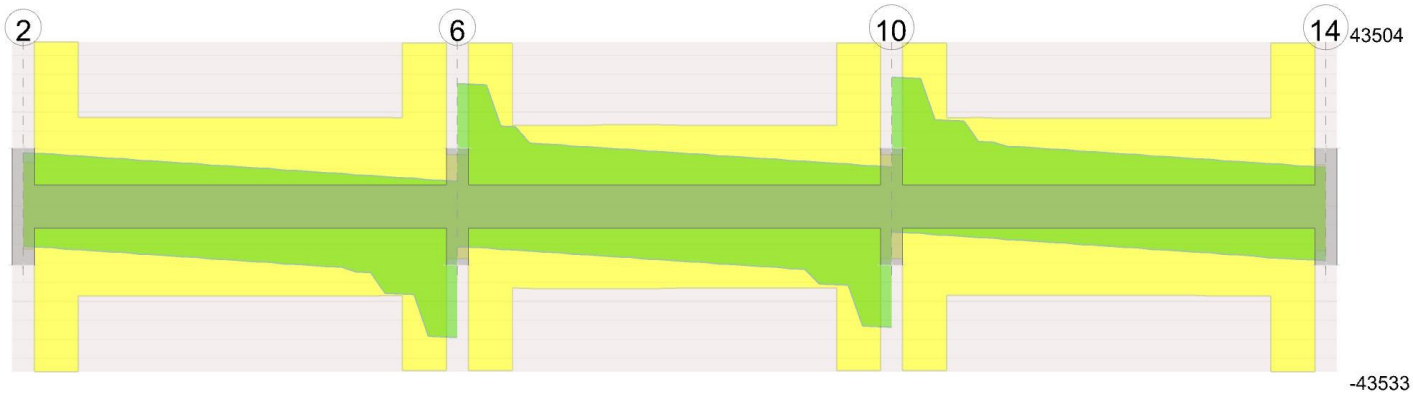
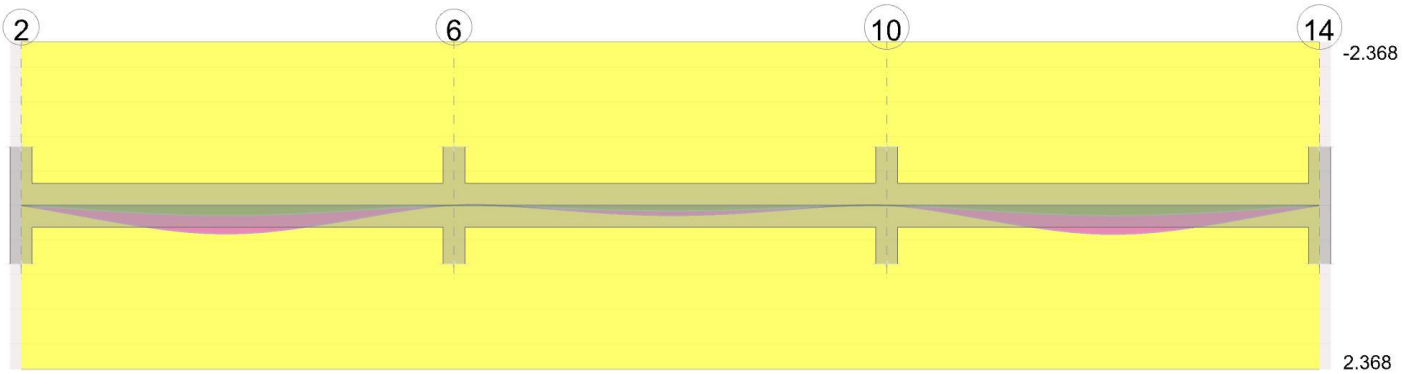


Diagramma verifica stato limite esercizio quasi permanente freccia



Output campate

Campata 1 tra i fili 2 - 6, sezione R 40x60, aste 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	14.33	5.4	12.44	5.4							-1110683	SLU 10	-1013386	-2869418	0.12	2.83	Si
15	14.33	5.4	12.44	5.4							-921658	SLU 10	-921658	-2869418	0.12	3.11	Si
296	14.33	5.4	12.44	5.4	1718322	SLU 9	1718322	2506498	0.112	1.46							Si
577	24.63	5.7	12.44	5.4							-3078980	SLU 9	-3078980	-4808394	0.175	1.56	Si
592	24.63	5.7	12.44	5.4							-3608966	SLU 9	-3336975	-4808394	0.175	1.44	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	14.33	5.4	12.44	5.4	263574	SLV 13	263574	2506498	0.112	9.51	-1876553	SLV 3	-1806062	-2869418	0.12	1.59	Si
15	14.33	5.4	12.44	5.4	399505	SLV 13	619695	2506498	0.112	4.04	-1739585	SLV 3	-1739585	-2869418	0.12	1.65	Si
296	14.33	5.4	12.44	5.4	1469449	SLV 13	1564030	2506498	0.112	1.6							Si
577	24.63	5.7	12.44	5.4							-3191584	SLV 13	-3191584	-4808394	0.175	1.51	Si
592	24.63	5.7	12.44	5.4							-3654589	SLV 13	-3417022	-4808394	0.175	1.41	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	14.33	5.4	12.44	5.4							-1407352	SLD 3	-1336963	-2869418	0.12	2.15	Si
15	14.33	5.4	12.44	5.4	-69468	SLD 13	151169	2506498	0.112	16.58	-1270612	SLD 3	-1270612	-2869418	0.12	2.26	Si
296	14.33	5.4	12.44	5.4	1369447	SLD 13	1418567	2506498	0.112	1.77							Si
577	24.63	5.7	12.44	5.4							-2783737	SLD 13	-2783737	-4808394	0.175	1.73	Si
592	24.63	5.7	12.44	5.4							-3217323	SLD 13	-2994827	-4808394	0.175	1.61	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	14.33	0	12351	SLU 9	12351	11749	92470	0	11749	1	0.95	Si
15	0.226	14.33	0	12231	SLU 9	12231	11749	92470	43504	43504	1	3.56	Si
296	0.123	12.44	0	-3372	SLU 9	-3372	-11213	-92531	-23638	-23638	1	7.01	Si
577	0.226	21.19	0	-34399	SLU 9	-34399	-13353	-91975	-43272	-43272	1	1.26	Si
592	0	23.45	0	-34519	SLU 9	-34519	-13812	-91975	0	-13812	1	0.4	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	14.33	0	8959	Ger.	14313	11749	92470	0	11749	1	0.82	Si
0	0	12.44	0	8877	Ger.	-10560	-11213	-92531	0	-11213	1	1.06	Si
15	0.226	14.33	0	8867	Ger.	14138	11749	92470	43504	43504	1	3.08	Si
15	0.226	12.44	0	8785	Ger.	-10735	-11213	-92531	-43533	-43533	1	4.06	Si
296	0.123	12.44	0	1167	Ger.	10556	11213	92531	23638	23638	1	2.24	Si
296	0.123	12.44	0	-5900	Ger.	-14317	-11213	-92531	-23638	-23638	1	1.65	Si
577	0.226	21.19	0	-21334	Ger.	6974	13353	91975	43272	43272	1	6.2	Si
577	0.226	21.19	0	-30058	SLV 13	-30058	-13353	-91975	-43272	-43272	1	1.44	Si
592	0	23.45	0	-21426	Ger.	6715	13812	91975	0	13812	1	2.06	Si
592	0	23.45	0	-30151	SLV 13	-30151	-13812	-91975	0	-13812	1	0.46	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	14.33	0	8941	SLD 1	8941	11749	92470	0	11749	1	1.31	Si
15	0.226	14.33	0	8848	SLD 1	8848	11749	92470	43504	43504	1	4.92	Si
296	0.123	12.44	0	-4351	SLD 13	-4351	-11213	-92531	-23638	-23638	1	5.43	Si
577	0.226	21.19	0	-28145	SLD 13	-28145	-13353	-91975	-43272	-43272	1	1.54	Si
592	0	23.45	0	-28238	SLD 13	-28238	-13812	-91975	0	-13812	1	0.49	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-841254	5	-767685	24.1	199.2	355.6	3600	-806490	2	-736233	23.1	149.4			Si
15	-698339	5	-698339	21.9	199.2	323.5	3600	-670040	2	-670040	21	149.4			Si
296	1299451	4	1299451	57.5	199.2	2125.2	3600	1241380	2	1241380	54.9	149.4			Si
577	-2338725	4	-2338725	86.4	199.2	2015.9	3600	-2261451	2	-2261451	83.6	149.4			Si
592	-2743138	4	-2535589	93.7	199.2	2185.5	3600	-2657365	2	-2454171	90.7	149.4			Si

Verifica di apertura delle fessure

x	Bordo	Rara				Frequente				Quasi permanente				Verifica
		Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	
296	inferiore	28	0.00062	0.0174	4	28	0.00065	0.0182	4	28	0.00064	0.0178	2	Si
577	superiore	22.3	0.00065	0.0146	4	22.3	0.00074	0.0165	4	22.3	0.00073	0.0163	2	Si
592	superiore	22.3	0.00074	0.0164	4	22.3	0.00082	0.0183	4	22.3	0.00081	0.0181	2	Si

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.009	0.008	0.01	0.007	0.009	0.008	0.009	0.007	0.009	0.008	0.025	2	0.021	2	9999	Si

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
276	0.154	0.137	0.155	0.119	0.149	0.137	0.144	0.119	0.147	0.137	0.41	2	0.351	2	1443	Si
296	0.154	0.136	0.154	0.118	0.149	0.137	0.143	0.119	0.147	0.137	0.408	2	0.349	2	1451	Si
577	0.003	0.002	0	-0.001	0.003	0.002	0	-0.001	0.003	0.002	0.008	2	0.005	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
30	439.3	6.1	60	0.011	0.00203	0.01339	0	11213	92531	43533	43533	40797	43533	14138	892	SLV 13	Si
592	152.7	9.5	60	0.017	0.00103	0.01661	0	13353	91975	43272	43272	50653	50653	-30058	892	SLV 13	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	3757	-10560	-13016	8877	3757	14313	9596	8959
15	3582	-10735	-13016	8785	3582	14138	9596	8867
296	0	-14317	-13016	-5900	0	10556	9596	1167
577	-3582	-30058	-13016	-30058	-3582	6974	9596	-21334
592	-3841	-30151	-13016	-30151	-3841	6715	9596	-21426

Campata 2 tra i fili 6 - 10, sezione R 40x60, aste 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	24.63	5.7	12.44	5.4							-3448141	SLU 10	-3204314	-4808394	0.175	1.5	Si
15	24.63	5.7	12.44	5.4							-2961367	SLU 9	-2961367	-4808394	0.175	1.62	Si
296	10.3	6.1	18.6	5.6	1232237	SLU 10	1232237	3668074	0.157	2.98							Si
577	24.63	5.7	12.44	5.7							-2792140	SLU 9	-2792140	-4798184	0.181	1.72	Si
592	24.63	5.7	12.44	5.7							-3268455	SLU 9	-3029859	-4798184	0.181	1.58	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	24.63	5.7	12.44	5.4							-3493748	SLV 1	-3286386	-4808394	0.175	1.46	Si
15	24.63	5.7	12.44	5.4							-3079688	SLV 1	-3079688	-4808394	0.175	1.56	Si
296	10.3	6.1	18.6	5.6	932405	SLV 13	969950	3668074	0.157	3.78							Si
577	24.63	5.7	12.44	5.7							-2884448	SLV 13	-2884448	-4798184	0.181	1.66	Si
592	24.63	5.7	12.44	5.7							-3289506	SLV 13	-3086641	-4798184	0.181	1.55	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	24.63	5.7	12.44	5.4							-3078345	SLD 1	-2881654	-4808394	0.175	1.67	Si
15	24.63	5.7	12.44	5.4							-2685631	SLD 1	-2685631	-4808394	0.175	1.79	Si
296	10.3	6.1	18.6	5.6	919487	SLD 13	923648	3668074	0.157	3.97							Si
577	24.63	5.7	12.44	5.7							-2522588	SLD 13	-2522588	-4798184	0.181	1.9	Si
592	24.63	5.7	12.44	5.7							-2906944	SLD 13	-2714430	-4798184	0.181	1.77	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	23.58	0	32511	SLU 10	32511	13836	91975	0	13836	1	0.43	Si
15	0.226	22.13	0	32394	SLU 10	32394	13548	91975	43272	43272	1	1.34	Si
296	0.113	12.44	0	-1635	SLU 9	-1635	-11192	-92167	-21583	-21583	1	13.2	Si
577	0.226	22.13	0	-31696	SLU 9	-31696	-13548	-91975	-43272	-43272	1	1.37	Si
592	0	23.58	0	-31813	SLU 9	-31813	-13836	-91975	0	-13836	1	0.43	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	23.58	0	27650	SLV 1	27650	13836	91975	0	13836	1	0.5	Si
0	0	23.58	0	21157	Ger.	-10704	-13836	-91975	0	-13836	1	1.29	Si
15	0.226	22.13	0	27560	SLV 1	27560	13548	91975	43272	43272	1	1.57	Si
15	0.226	22.13	0	21067	Ger.	-10794	-13548	-91975	-43272	-43272	1	4.01	Si
296	0.113	12.44	0	1525	Ger.	14313	11192	92167	21583	21583	1	1.51	Si
296	0.113	12.44	0	-3868	Ger.	-14331	-11192	-92167	-21583	-21583	1	1.51	Si
577	0.226	22.13	0	-20664	Ger.	10775	13548	91975	43272	43272	1	4.02	Si
577	0.226	22.13	0	-26959	SLV 13	-26959	-13548	-91975	-43272	-43272	1	1.61	Si
592	0	23.58	0	-20754	Ger.	10517	13836	91975	0	13836	1	1.32	Si
592	0	23.58	0	-27049	SLV 13	-27049	-13836	-91975	0	-13836	1	0.51	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	23.58	0	26226	SLD 1	26226	13836	91975	0	13836	1	0.53	Si
15	0.226	22.13	0	26136	SLD 1	26136	13548	91975	43272	43272	1	1.66	Si
296	0.113	12.44	0	343	SLD 3	343	11192	92167	21583	21583	1	62.98	Si
296	0.113	12.44	0	-2686	SLD 13	-2686	-11192	-92167	-21583	-21583	1	8.04	Si
577	0.226	22.13	0	-25579	SLD 13	-25579	-13548	-91975	-43272	-43272	1	1.69	Si
592	0	23.58	0	-25669	SLD 13	-25669	-13836	-91975	0	-13836	1	0.54	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-2622960	5	-2436659	90	199.2	2100.3	3600	-2546372	2	-2363346	87.3	149.4			Si
15	-2251035	4	-2251035	83.2	199.2	1940.3	3600	-2180994	2	-2180994	80.6	149.4			Si
296	935444	5	935444	29.9	199.2	417.2	3600	902942	2	902942	28.9	149.4			Si
577	-2123186	4	-2123186	78.9	199.2	1834	3600	-2059189	2	-2059189	76.5	149.4			Si
592	-2487207	4	-2304859	85.7	199.2	1991	3600	-2417036	2	-2237775	83.2	149.4			Si

Verifica di apertura delle fessure

x	Bordo	Rara				Frequente				Quasi permanente				Verifica
		Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	
0	superiore	22.3	0.0007	0.0155	4	22.3	0.00078	0.0174	4	22.3	0.00077	0.0172	2	Si
15	superiore	22.3	0.00062	0.0138	4	22.3	0.0007	0.0157	4	22.3	0.0007	0.0155	2	Si
577	superiore	22.3	0.00057	0.0126	4	22.3	0.00065	0.0146	4	22.3	0.00065	0.0144	2	Si
592	superiore	22.3	0.00064	0.0143	4	22.3	0.00073	0.0163	4	22.3	0.00072	0.0161	2	Si

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	-0.001	-0.001	-0.004	-0.005	-0.001	-0.001	-0.004	-0.005	-0.001	-0.001	-0.007	1	-0.008	1	9999	Si
296	0.082	0.077	0.058	0.056	0.08	0.077	0.058	0.056	0.08	0.077	0.144	2	0.14	2	4101	Si
577	0	-0.001	-0.003	-0.004	0	-0.001	-0.003	-0.004	0	-0.001	-0.005	1	-0.006	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
622	177.9	9.5	60	0.017	0.00108	0.01626	0	13548	91975	43272	43272	49495	49495	27560	-2585	SLV 1	Si
1184	166.5	9.8	60	0.016	0.00095	0.01631	0	13548	91975	43272	43272	49578	49578	-26959	2538	SLV 13	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	3627	-10704	-13028	21157	3627	27650	13012	27650
15	3537	-10794	-13028	21067	3537	27560	13012	27560
296	0	-14331	-13028	-3868	0	14313	13012	1525
577	-3538	-26959	-13028	-26959	-3538	10775	13012	-20664
592	-3797	-27049	-13028	-27049	-3797	10517	13012	-20754

Campata 3 tra i fili 10 - 14, sezione R 40x60, aste 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	24.63	5.7	12.44	5.7							-3528160	SLU 9	-3258785	-4798184	0.181	1.47	Si
15	24.63	5.7	12.44	5.7							-3003279	SLU 9	-3003279	-4798184	0.181	1.6	Si
276	14.33	5.4	12.44	5.7	1658000	SLU 9	1723593	2487223	0.112	1.44							Si
296	14.33	5.4	12.44	5.7	1723593	SLU 9	1723593	2487223	0.112	1.44							Si
577	14.33	5.4	12.44	5.7							-971454	SLU 10	-971454	-2876509	0.126	2.96	Si
592	14.33	5.4	12.44	5.7							-1161406	SLU 10	-1063634	-2876509	0.126	2.7	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	24.63	5.7	12.44	5.7							-3823728	SLV 1	-3580594	-4798184	0.181	1.34	Si
15	24.63	5.7	12.44	5.7							-3349838	SLV 1	-3349838	-4798184	0.181	1.43	Si
296	14.33	5.4	12.44	5.7	1494475	SLV 1	1605423	2487223	0.112	1.55							Si
577	14.33	5.4	12.44	5.7	559376	SLV 1	778739	2487223	0.112	3.19	-1970618	SLV 15	-1970618	-2876509	0.126	1.46	Si
592	14.33	5.4	12.44	5.7	423933	SLV 1	423933	2487223	0.112	5.87	-2109370	SLV 15	-2037941	-2876509	0.126	1.41	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	24.63	5.7	12.44	5.7							-3286857	SLD 1	-3062058	-4798184	0.181	1.57	Si
15	24.63	5.7	12.44	5.7							-2848762	SLD 1	-2848762	-4798184	0.181	1.68	Si
296	14.33	5.4	12.44	5.7	1385155	SLD 1	1441508	2487223	0.112	1.73							Si
577	14.33	5.4	12.44	5.7	4712	SLD 1	225354	2487223	0.112	11.04	-1415954	SLD 15	-1415954	-2876509	0.126	2.03	Si
592	14.33	5.4	12.44	5.7							-1553980	SLD 15	-1482919	-2876509	0.126	1.94	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	23.45	0	34187	SLU 9	34187	13812	91975	0	13812	1	0.4	Si
15	0.226	21.23	0	34067	SLU 9	34067	13361	91975	43272	43272	1	1.27	Si
296	0.123	12.44	0	3163	SLU 9	3163	11174	91860	23467	23467	1	7.42	Si
577	0.226	14.33	0	-12291	SLU 9	-12291	-11749	-92470	-43504	-43504	1	3.54	Si
592	0	14.33	0	-12411	SLU 9	-12411	-11749	-92470	0	-11749	1	0.95	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	23.45	0	30860	SLV 1	30860	13812	91975	0	13812	1	0.45	Si
0	0	23.45	0	20241	Ger.	-6860	-13812	-91975	0	-13812	1	2.01	Si
15	0.226	21.23	0	30767	SLV 1	30767	13361	91975	43272	43272	1	1.41	Si
15	0.226	21.23	0	20149	Ger.	-6950	-13361	-91975	-43272	-43272	1	6.23	Si
296	0.123	12.44	0	6458	Ger.	14260	11174	91860	23467	23467	1	1.65	Si
296	0.123	12.44	0	-2024	Ger.	-10532	-11174	-91860	-23467	-23467	1	2.23	Si
577	0.226	12.44	0	-8755	Ger.	10676	11174	91860	43217	43217	1	4.05	Si
577	0.226	14.33	0	-8981	Ger.	-14115	-11749	-92470	-43504	-43504	1	3.08	Si
592	0	12.44	0	-8847	Ger.	10501	11174	91860	0	11174	1	1.06	Si
592	0	14.33	0	-9073	Ger.	-14291	-11749	-92470	0	-11749	1	0.82	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	23.45	0	28532	SLD 1	28532	13812	91975	0	13812	1	0.48	Si
15	0.226	21.23	0	28439	SLD 1	28439	13361	91975	43272	43272	1	1.52	Si
296	0.123	12.44	0	4598	SLD 1	4598	11174	91860	23467	23467	1	5.1	Si
296	0.123	12.44	0	-165	SLD 15	-165	-11174	-91860	-23467	-23467	1	142.46	Si
577	0.226	14.33	0	-8931	SLD 13	-8931	-11749	-92470	-43504	-43504	1	4.87	Si
592	0	14.33	0	-9024	SLD 13	-9024	-11749	-92470	0	-11749	1	1.3	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-2682123	4	-2476548	92.1	199.2	2139.3	3600	-2599322	2	-2398002	89.1	149.4			Si
15	-2281562	4	-2281562	84.8	199.2	1970.9	3600	-2207066	2	-2207066	82	149.4			Si
296	1303427	4	1303427	58.3	199.2	2169.2	3600	1245151	2	1245151	55.7	149.4			Si
577	-735921	5	-735921	23.2	199.2	341.9	3600	-705621	2	-705621	22.3	149.4			Si
592	-879531	5	-805606	25.4	199.2	374.2	3600	-842718	2	-772130	24.4	149.4			Si

Verifica di apertura delle fessure

x	Bordo	Rara				Frequente				Quasi permanente				Verifica
		Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	
0	superiore	22.3	0.00071	0.0159	4	22.3	0.0008	0.0178	4	22.3	0.00079	0.0176	2	Si
15	superiore	22.3	0.00063	0.0141	4	22.3	0.00072	0.016	4	22.3	0.00071	0.0158	2	Si
296	inferiore	28.9	0.00063	0.0183	4	28.9	0.00065	0.0188	4	28.9	0.00064	0.0185	2	Si
316	inferiore	28.9	0.00063	0.0183	4	28.9	0.00065	0.0188	4	28.9	0.00064	0.0185	2	Si

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.003	0.003	0.001	0	0.003	0.003	0.001	0	0.003	0.003	0.009	2	0.007	2	9999	Si
296	0.154	0.137	0.157	0.12	0.149	0.137	0.145	0.12	0.148	0.137	0.414	2	0.363	2	1428	Si
316	0.155	0.137	0.158	0.121	0.15	0.137	0.146	0.121	0.148	0.137	0.416	2	0.363	2	1423	Si
577	0.009	0.008	0.01	0.007	0.009	0.008	0.009	0.007	0.009	0.008	0.025	2	0.022	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
1214	156	9.8	60	0.016	0.00118	0.01663	0	13361	91975	43272	43272	50403	50403	30767	-1612	SLV 1	Si
1776	436	6.1	60	0.011	0.00228	0.01343	0	11174	91860	43217	43217	40588	43217	-14115	-1612	SLV 1	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	3672	-6860	-9575	20241	3672	30860	12963	30860
15	3582	-6950	-9575	20149	3582	30767	12963	30767
296	0	-10532	-9575	-2024	0	14260	12963	6458
577	-3583	-14115	-9575	-8981	-3583	10676	12963	-8755
592	-3759	-14291	-9575	-9073	-3759	10501	12963	-8847

Momenti resistenti a filo appoggi

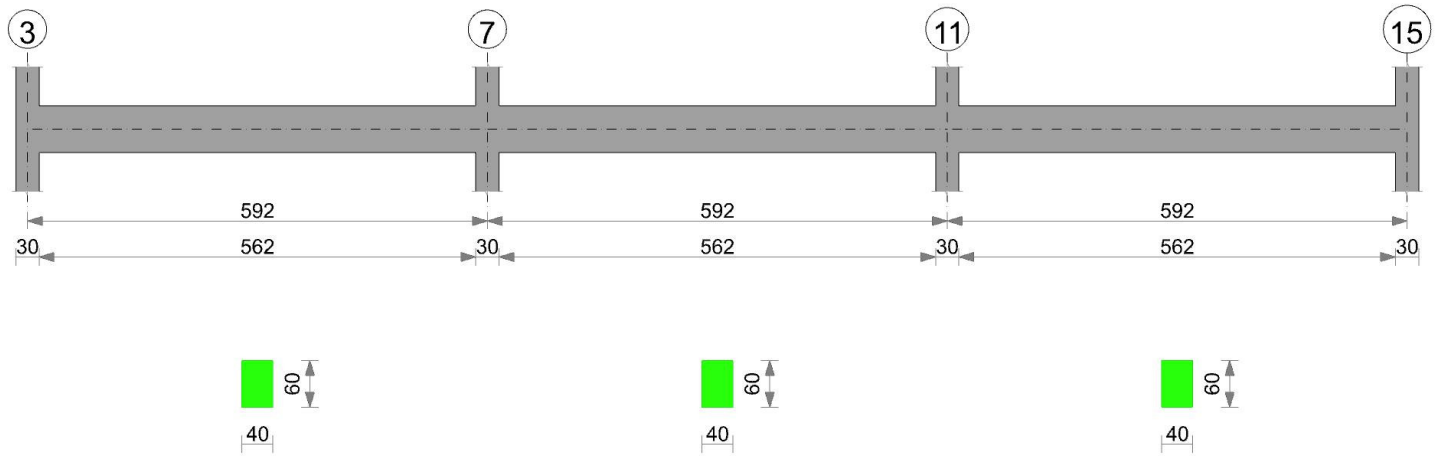
campata	x	appoggio	momento positivo	momento negativo
1	15	2	2506498	-2869418
1	577	6	2523663	-4808394
2	15	6	2523663	-4808394
2	577	10	2504387	-4798184
3	15	10	2504387	-4798184
3	577	14	2487223	-2876509

Controllo diametro delle barre longitudinali nei nodi

Nessun nodo è da verificare

Trave a "Piano 1" 3-15

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Elenco delle sezioni

N°	Descrizione	Tipo	Base	Altezza	Copriferro sup.	Copriferro inf.	Copriferro lat.
1	R 40x60	Rettangolare	40	60	3.5	3.5	3.5

Diagramma verifica stato limite ultimo flessione

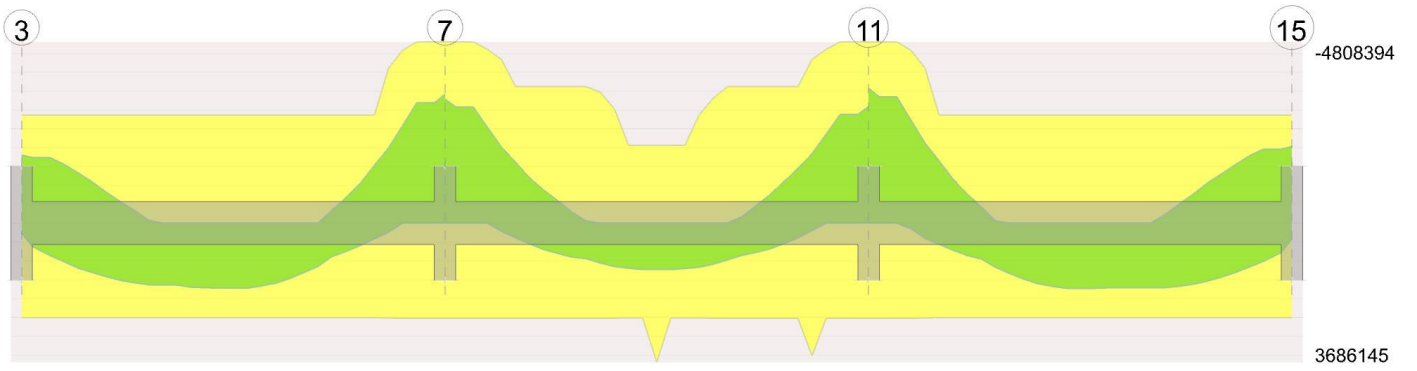


Diagramma verifica stato limite ultimo taglio

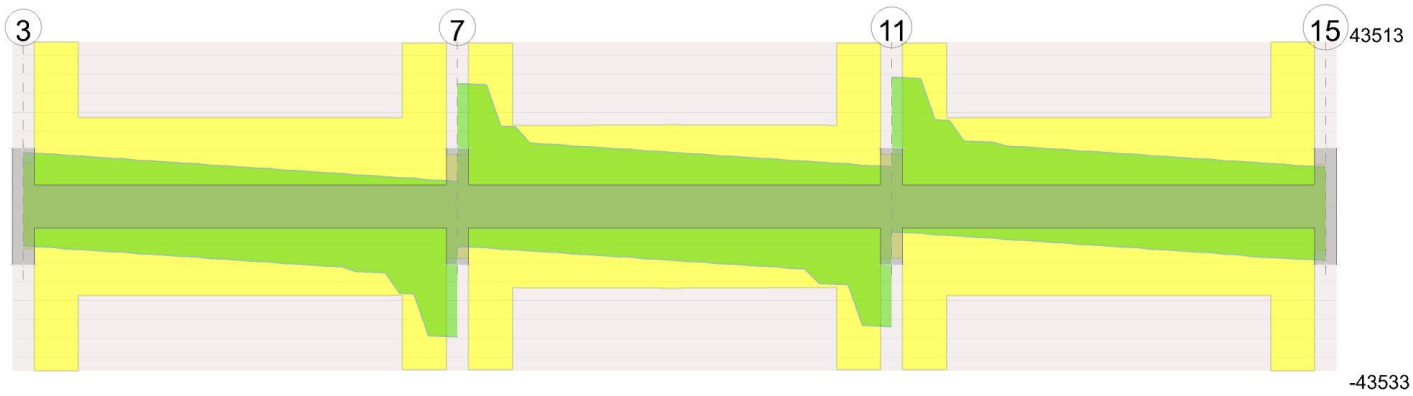
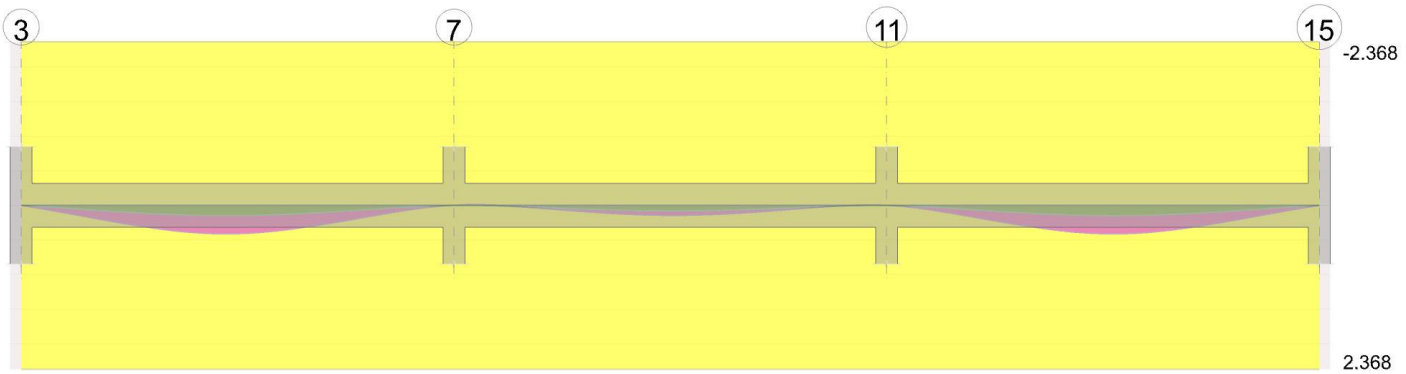


Diagramma verifica stato limite esercizio quasi permanente freccia



Output campate

Campata 1 tra i fili 3 - 7, sezione R 40x60, aste 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	14.33	5.4	12.44	5.4							-1110711	SLU 10	-1013414	-2869418	0.12	2.83	Si
15	14.33	5.4	12.44	5.4							-921688	SLU 10	-921688	-2869418	0.12	3.11	Si
296	14.33	5.4	12.44	5.4	1724341	SLU 9	1724341	2506498	0.112	1.45							Si
577	24.63	5.7	12.44	5.4							-3079315	SLU 9	-3079315	-4808394	0.175	1.56	Si
592	24.63	5.7	12.44	5.4							-3609738	SLU 9	-3337523	-4808394	0.175	1.44	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	14.33	5.4	12.44	5.4	262103	SLV 15	262103	2506498	0.112	9.56	-1874817	SLV 1	-1804476	-2869418	0.12	1.59	Si
15	14.33	5.4	12.44	5.4	398236	SLV 15	618757	2506498	0.112	4.05	-1738104	SLV 1	-1738104	-2869418	0.12	1.65	Si
296	14.33	5.4	12.44	5.4	1489049	SLV 15	1563720	2506498	0.112	1.6							Si
577	24.63	5.7	12.44	5.4							-3191769	SLV 15	-3191769	-4808394	0.175	1.51	Si
592	24.63	5.7	12.44	5.4							-3655085	SLV 15	-3417358	-4808394	0.175	1.41	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	14.33	5.4	12.44	5.4							-1406319	SLD 1	-1336020	-2869418	0.12	2.15	Si
15	14.33	5.4	12.44	5.4	-70134	SLD 15	150670	2506498	0.112	16.64	-1269734	SLD 1	-1269734	-2869418	0.12	2.26	Si
296	14.33	5.4	12.44	5.4	1382260	SLD 15	1418309	2506498	0.112	1.77							Si
577	24.63	5.7	12.44	5.4							-2783905	SLD 15	-2783905	-4808394	0.175	1.73	Si
592	24.63	5.7	12.44	5.4							-3217780	SLD 15	-2995136	-4808394	0.175	1.61	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	14.33	0	12351	SLU 9	12351	11749	92470	0	11749	1	0.95	Si
15	0.226	14.33	0	12231	SLU 9	12231	11749	92470	43504	43504	1	3.56	Si
296	0.123	12.44	0	609	SLU 7	609	11213	92531	23638	23638	1	38.8	Si
577	0.226	20.9	0	-34428	SLU 9	-34428	-13291	-91975	-43272	-43272	1	1.26	Si
592	0	23.45	0	-34548	SLU 9	-34548	-13812	-91975	0	-13812	1	0.4	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	14.33	0	8945	Ger.	14314	11749	92470	0	11749	1	0.82	Si
0	0	12.44	0	8888	Ger.	-10559	-11213	-92531	0	-11213	1	1.06	Si
15	0.226	14.33	0	8852	Ger.	14139	11749	92470	43504	43504	1	3.08	Si
15	0.226	12.44	0	8796	Ger.	-10734	-11213	-92531	-43533	-43533	1	4.06	Si
296	0.123	12.44	0	3937	Ger.	10556	11213	92531	23638	23638	1	2.24	Si
296	0.123	12.44	0	-3044	Ger.	-14318	-11213	-92531	-23638	-23638	1	1.65	Si
577	0.226	20.9	0	-21347	Ger.	6973	13291	91975	43272	43272	1	6.21	Si
577	0.226	20.9	0	-30078	SLV 15	-30078	-13291	-91975	-43272	-43272	1	1.44	Si
592	0	23.45	0	-21440	Ger.	6715	13812	91975	0	13812	1	2.06	Si
592	0	23.45	0	-30171	SLV 15	-30171	-13812	-91975	0	-13812	1	0.46	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	14.33	0	8932	SLD 3	8932	11749	92470	0	11749	1	1.32	Si
15	0.226	14.33	0	8840	SLD 3	8840	11749	92470	43504	43504	1	4.92	Si
296	0.123	12.44	0	2406	SLD 1	2406	11213	92531	23638	23638	1	9.82	Si
296	0.123	12.44	0	-1513	SLD 15	-1513	-11213	-92531	-23638	-23638	1	15.62	Si

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
577	0.226	20.9	0	-28164	SLD 15	-28164	-13291	-91975	-43272	-43272	1	1.54	Si
592	0	23.45	0	-28256	SLD 15	-28256	-13812	-91975	0	-13812	1	0.49	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-841233	5	-767668	24.1	199.2	355.6	3600	-806357	2	-736114	23.1	149.4			Si
15	-698326	5	-698326	21.9	199.2	323.5	3600	-669934	2	-669934	21	149.4			Si
296	1303940	4	1303940	57.7	199.2	2132.5	3600	1245502	2	1245502	55.1	149.4			Si
577	-2338952	4	-2338952	86.4	199.2	2016.1	3600	-2261598	2	-2261598	83.6	149.4			Si
592	-2743680	4	-2535970	93.7	199.2	2185.9	3600	-2657773	2	-2454445	90.7	149.4			Si

Verifica di apertura delle fessure

x	Bordo	Rara				Frequente				Quasi permanente				Verifica
		Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	
296	inferiore	28	0.00062	0.0174	4	28	0.00065	0.0183	4	28	0.00064	0.0179	2	Si
577	superiore	22.3	0.00065	0.0146	4	22.3	0.00074	0.0165	4	22.3	0.00073	0.0163	2	Si
592	superiore	22.3	0.00074	0.0164	4	22.3	0.00082	0.0183	4	22.3	0.00081	0.0181	2	Si

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente						Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.009	0.008	0.01	0.007	0.009	0.008	0.009	0.007	0.009	0.008	0.025	2	0.022	2	9999	Si
276	0.154	0.137	0.156	0.12	0.149	0.137	0.145	0.12	0.147	0.137	0.411	2	0.352	2	1439	Si
296	0.154	0.136	0.155	0.119	0.149	0.137	0.144	0.119	0.147	0.137	0.409	2	0.35	2	1446	Si
577	0.003	0.002	0	0	0.003	0.002	0	0	0.003	0.002	0.008	2	0.005	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
30	439.3	6.1	60	0.011	0.00202	0.01339	0	11213	92531	43533	43533	40797	43533	14139	879	SLV 13	Si
592	152.7	9.5	60	0.017	0.00103	0.01661	0	13291	91975	43272	43272	50653	50653	-30078	889	SLV 15	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	3758	-10559	-13016	8888	3758	14314	9596	8945
15	3583	-10734	-13016	8796	3583	14139	9596	8852
296	0	-14318	-13016	-3044	0	10556	9596	3937
577	-3583	-30078	-13016	-30078	-3583	6973	9596	-21347
592	-3841	-30171	-13016	-30171	-3841	6715	9596	-21440

Campata 2 tra i fili 7 - 11, sezione R 40x60, aste 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	24.63	5.7	12.44	5.4							-3448995	SLU 10	-3204954	-4808394	0.175	1.5	Si
15	24.63	5.7	12.44	5.4							-2961792	SLU 9	-2961792	-4808394	0.175	1.62	Si
296	10.3	6.1	18.6	5.3	1231599	SLU 10	1231599	3686145	0.156	2.99							Si
577	24.63	5.7	12.44	5.4							-2792683	SLU 9	-2792683	-4807231	0.175	1.72	Si
592	24.63	5.7	12.44	5.4							-3269430	SLU 9	-3030618	-4807231	0.175	1.59	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	24.63	5.7	12.44	5.4							-3494578	SLV 3	-3287051	-4808394	0.175	1.46	Si
15	24.63	5.7	12.44	5.4							-3080188	SLV 3	-3080188	-4808394	0.175	1.56	Si
296	10.3	6.1	18.6	5.3	931942	SLV 15	969557	3686145	0.156	3.8							Si
577	24.63	5.7	12.44	5.4							-2885130	SLV 15	-2885130	-4807231	0.175	1.67	Si
592	24.63	5.7	12.44	5.4							-3290506	SLV 15	-3087482	-4807231	0.175	1.56	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	24.63	5.7	12.44	5.4							-3079018	SLD 3	-2882177	-4808394	0.175	1.67	Si
15	24.63	5.7	12.44	5.4							-2686003	SLD 3	-2686003	-4808394	0.175	1.79	Si
296	10.3	6.1	18.6	5.3	919036	SLD 15	923244	3686145	0.156	3.99							Si
577	24.63	5.7	12.44	5.4							-2523102	SLD 15	-2523102	-4807231	0.175	1.91	Si
592	24.63	5.7	12.44	5.4							-2907755	SLD 15	-2715092	-4807231	0.175	1.77	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	23.58	0	32540	SLU 10	32540	13836	91975	0	13836	1	0.43	Si
15	0.226	22.13	0	32423	SLU 10	32423	13548	91975	43272	43272	1	1.33	Si
296	0.113	12.44	0	-1634	SLU 9	-1634	-11217	-92588	-21681	-21681	1	13.27	Si
577	0.226	22.13	0	-31725	SLU 9	-31725	-13548	-91975	-43272	-43272	1	1.36	Si
592	0	23.58	0	-31842	SLU 9	-31842	-13836	-91975	0	-13836	1	0.43	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	23.58	0	27672	SLV 3	27672	13836	91975	0	13836	1	0.5	Si
0	0	23.58	0	21171	Ger.	-10719	-13836	-91975	0	-13836	1	1.29	Si
15	0.226	22.13	0	27582	SLV 3	27582	13548	91975	43272	43272	1	1.57	Si
15	0.226	22.13	0	21081	Ger.	-10809	-13548	-91975	-43272	-43272	1	4	Si
296	0.113	12.44	0	1528	Ger.	14349	11217	92588	21681	21681	1	1.51	Si
296	0.113	12.44	0	-3868	Ger.	-14348	-11217	-92588	-21681	-21681	1	1.51	Si
577	0.226	22.13	0	-20679	Ger.	10808	13548	91975	43272	43272	1	4	Si
577	0.226	22.13	0	-26980	SLV 15	-26980	-13548	-91975	-43272	-43272	1	1.6	Si
592	0	23.58	0	-20769	Ger.	10551	13836	91975	0	13836	1	1.31	Si
592	0	23.58	0	-27070	SLV 15	-27070	-13836	-91975	0	-13836	1	0.51	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	23.58	0	26246	SLD 3	26246	13836	91975	0	13836	1	0.53	Si
15	0.226	22.13	0	26156	SLD 3	26156	13548	91975	43272	43272	1	1.65	Si
296	0.113	12.44	0	345	SLD 1	345	11217	92588	21681	21681	1	62.91	Si
296	0.113	12.44	0	-2685	SLD 15	-2685	-11217	-92588	-21681	-21681	1	8.07	Si
577	0.226	22.13	0	-25599	SLD 15	-25599	-13548	-91975	-43272	-43272	1	1.69	Si
592	0	23.58	0	-25689	SLD 15	-25689	-13836	-91975	0	-13836	1	0.54	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-2623565	5	-2437109	90	199.2	2100.7	3600	-2546844	2	-2363686	87.3	149.4			Si
15	-2251329	4	-2251329	83.2	199.2	1940.5	3600	-2181201	2	-2181201	80.6	149.4			Si
296	934968	5	934968	29.8	199.2	415.3	3600	902507	2	902507	28.8	149.4			Si
577	-2123571	4	-2123571	78.5	199.2	1830.7	3600	-2059489	2	-2059489	76.1	149.4			Si
592	-2487907	4	-2305402	85.2	199.2	1987.5	3600	-2417604	2	-2238209	82.7	149.4			Si

Verifica di apertura delle fessure

x	Bordo	Rara				Frequente				Quasi permanente				Verifica
		Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	
0	superiore	22.3	0.0007	0.0155	4	22.3	0.00078	0.0174	4	22.3	0.00077	0.0172	2	Si
15	superiore	22.3	0.00062	0.0138	4	22.3	0.0007	0.0157	4	22.3	0.0007	0.0155	2	Si
577	superiore	22.3	0.00056	0.0126	4	22.3	0.00065	0.0146	4	22.3	0.00065	0.0144	2	Si
592	superiore	22.3	0.00064	0.0143	4	22.3	0.00073	0.0162	4	22.3	0.00072	0.0161	2	Si

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente						Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	-0.001	-0.001	-0.004	-0.005	-0.001	-0.001	-0.004	-0.005	-0.001	-0.001	-0.007	1	-0.008	1	9999	Si
296	0.082	0.077	0.058	0.056	0.08	0.077	0.057	0.056	0.08	0.077	0.144	2	0.14	2	4113	Si
577	0	-0.001	-0.003	-0.004	0	-0.001	-0.003	-0.004	0	-0.001	-0.005	1	-0.006	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
622	177.9	9.5	60	0.017	0.00108	0.01624	0	13548	91975	43272	43272	49496	49496	27582	-2607	SLV 3	Si
1184	166.5	9.5	60	0.016	0.00095	0.01635	0	13548	91975	43272	43272	49576	49576	-26980	2527	SLV 15	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	3629	-10719	-13044	21171	3629	27672	13044	27672
15	3539	-10809	-13044	21081	3539	27582	13044	27582
296	1	-14348	-13044	-3868	1	14349	13044	1528
577	-3540	-26980	-13044	-26980	-3540	10808	13044	-20679
592	-3798	-27070	-13044	-27070	-3798	10551	13044	-20769

Campata 3 tra i fili 11 - 15, sezione R 40x60, aste 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	24.63	5.7	12.44	5.4							-3529249	SLU 9	-3259633	-4807231	0.175	1.47	Si
15	24.63	5.7	12.44	5.4							-3003897	SLU 9	-3003897	-4807231	0.175	1.6	Si
276	14.33	5.4	12.44	5.4	1657958	SLU 9	1728918	2505294	0.112	1.45							Si
296	14.33	5.4	12.44	5.4	1728918	SLU 9	1728918	2505294	0.112	1.45							Si
577	14.33	5.4	12.44	5.4							-969220	SLU 10	-969220	-2868985	0.121	2.96	Si
592	14.33	5.4	12.44	5.4							-1158805	SLU 10	-1061221	-2868985	0.121	2.7	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	24.63	5.7	12.44	5.4							-3824080	SLV 3	-3580793	-4807231	0.175	1.34	Si
15	24.63	5.7	12.44	5.4							-3349892	SLV 3	-3349892	-4807231	0.175	1.44	Si
296	14.33	5.4	12.44	5.4	1516443	SLV 3	1604993	2505294	0.112	1.56							Si
577	14.33	5.4	12.44	5.4	557286	SLV 3	777183	2505294	0.112	3.22	-1965179	SLV 13	-1965179	-2868985	0.121	1.46	Si
592	14.33	5.4	12.44	5.4	421518	SLV 3	421518	2505294	0.112	5.94	-2103057	SLV 13	-2032079	-2868985	0.121	1.41	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	24.63	5.7	12.44	5.4							-3287342	SLD 3	-3062391	-4807231	0.175	1.57	Si
15	24.63	5.7	12.44	5.4							-2848951	SLD 3	-2848951	-4807231	0.175	1.69	Si
296	14.33	5.4	12.44	5.4	1399078	SLD 3	1441277	2505294	0.112	1.74							Si
577	14.33	5.4	12.44	5.4	4272	SLD 3	225017	2505294	0.112	11.13	-1412165	SLD 13	-1412165	-2868985	0.121	2.03	Si
592	14.33	5.4	12.44	5.4							-1549581	SLD 13	-1478835	-2868985	0.121	1.94	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	23.45	0	34218	SLU 9	34218	13812	91975	0	13812	1	0.4	Si
15	0.226	20.94	0	34098	SLU 9	34098	13300	91975	43272	43272	1	1.27	Si
296	0.123	12.44	0	-790	SLU 7	-790	-11211	-92489	-23627	-23627	1	29.89	Si
577	0.226	14.33	0	-12267	SLU 9	-12267	-11749	-92470	-43504	-43504	1	3.55	Si
592	0	14.33	0	-12387	SLU 9	-12387	-11749	-92470	0	-11749	1	0.95	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	23.45	0	30879	SLV 3	30879	13812	91975	0	13812	1	0.45	Si
0	0	23.45	0	20260	Ger.	-6879	-13812	-91975	0	-13812	1	2.01	Si
15	0.226	20.94	0	30787	SLV 3	30787	13300	91975	43272	43272	1	1.41	Si
15	0.226	20.94	0	20167	Ger.	-6969	-13300	-91975	-43272	-43272	1	6.21	Si
296	0.123	12.44	0	3594	Ger.	14314	11211	92489	23627	23627	1	1.65	Si
296	0.123	12.44	0	-4784	Ger.	-10552	-11211	-92489	-23627	-23627	1	2.24	Si
577	0.226	12.44	0	-8775	Ger.	10727	11211	92489	43513	43513	1	4.06	Si
577	0.226	14.33	0	-8925	Ger.	-14138	-11749	-92470	-43504	-43504	1	3.08	Si
592	0	12.44	0	-8867	Ger.	10552	11211	92489	0	11211	1	1.06	Si
592	0	14.33	0	-9017	Ger.	-14313	-11749	-92470	0	-11749	1	0.82	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	23.45	0	28551	SLD 3	28551	13812	91975	0	13812	1	0.48	Si
15	0.226	20.94	0	28459	SLD 3	28459	13300	91975	43272	43272	1	1.52	Si
296	0.123	12.44	0	1757	SLD 3	1757	11211	92489	23627	23627	1	13.45	Si
296	0.123	12.44	0	-2947	SLD 13	-2947	-11211	-92489	-23627	-23627	1	8.02	Si
577	0.226	14.33	0	-8892	SLD 15	-8892	-11749	-92470	-43504	-43504	1	4.89	Si
592	0	14.33	0	-8984	SLD 15	-8984	-11749	-92470	0	-11749	1	1.31	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-2682910	4	-2477159	91.6	199.2	2135.5	3600	-2599977	2	-2398507	88.7	149.4			Si
15	-2282007	4	-2282007	84.3	199.2	1967.3	3600	-2207429	2	-2207429	81.6	149.4			Si
296	1307391	4	1307391	57.9	199.2	2140.6	3600	1248771	2	1248771	55.3	149.4			Si
577	-734214	5	-734214	23.1	199.2	340.2	3600	-703947	2	-703947	22.1	149.4			Si
592	-877544	5	-803763	25.2	199.2	372.4	3600	-840770	2	-770322	24.2	149.4			Si

Verifica di apertura delle fessure

x	Bordo	Rara				Frequente				Quasi permanente				Verifica
		Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	
0	superiore	22.3	0.00071	0.0159	4	22.3	0.0008	0.0178	4	22.3	0.00079	0.0176	2	Si
15	superiore	22.3	0.00063	0.0141	4	22.3	0.00072	0.016	4	22.3	0.00071	0.0158	2	Si
296	inferiore	28.1	0.00062	0.0175	4	28.1	0.00065	0.0184	4	28.1	0.00064	0.018	2	Si
316	inferiore	28.1	0.00062	0.0175	4	28.1	0.00065	0.0184	4	28.1	0.00064	0.018	2	Si

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.003	0.003	0.001	0	0.003	0.003	0.001	0	0.003	0.003	0.009	2	0.006	2	9999	Si
296	0.154	0.137	0.156	0.12	0.149	0.137	0.144	0.12	0.148	0.137	0.41	2	0.351	2	1443	Si
316	0.155	0.137	0.156	0.12	0.15	0.137	0.145	0.12	0.148	0.137	0.412	2	0.353	2	1438	Si
577	0.009	0.008	0.009	0.007	0.009	0.008	0.009	0.007	0.009	0.008	0.025	2	0.021	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
1214	156	9.5	60	0.016	0.00118	0.01662	0	13300	91975	43272	43272	50407	50407	30787	-1631	SLV 3	Si
1776	435.9	6.1	60	0.011	0.00228	0.01339	0	11211	92489	43513	43513	40877	43513	-14138	-1824	SLV 1	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	3674	-6879	-9593	20260	3674	30879	13012	30879
15	3584	-6969	-9593	20167	3584	30787	13012	30787
296	1	-10552	-9593	-4784	1	14314	13012	3594
577	-3585	-14138	-9593	-8925	-3585	10727	13012	-8775
592	-3760	-14313	-9593	-9017	-3760	10552	13012	-8867

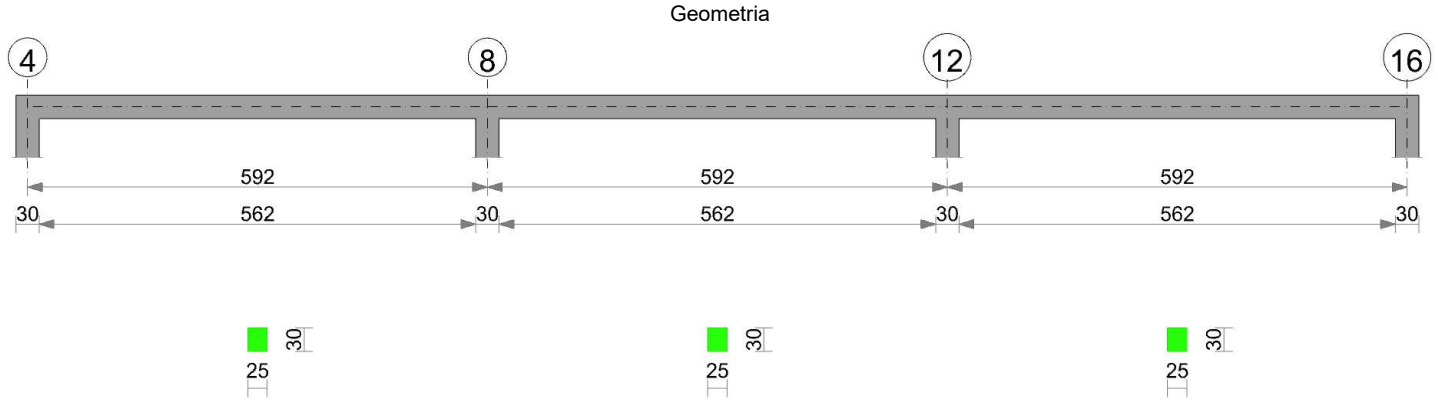
Momenti resistenti a filo appoggi

campata	x	appoggio	momento positivo	momento negativo
1	15	3	2506498	-2869418
1	577	7	2523663	-4808394
2	15	7	2523663	-4808394
2	577	11	2522458	-4807231
3	15	11	2522458	-4807231
3	577	15	2505294	-2868985

Controllo diametro delle barre longitudinali nei nodi

Nessun nodo è da verificare

Trave a "Piano 1" 4-16



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Elenco delle sezioni

N°	Descrizione	Tipo	Base	Altezza	Copriferro sup.	Copriferro inf.	Copriferro lat.
1	R 25x30	Rettangolare	25	30	3.5	3.5	3.5

Diagramma verifica stato limite ultimo flessione

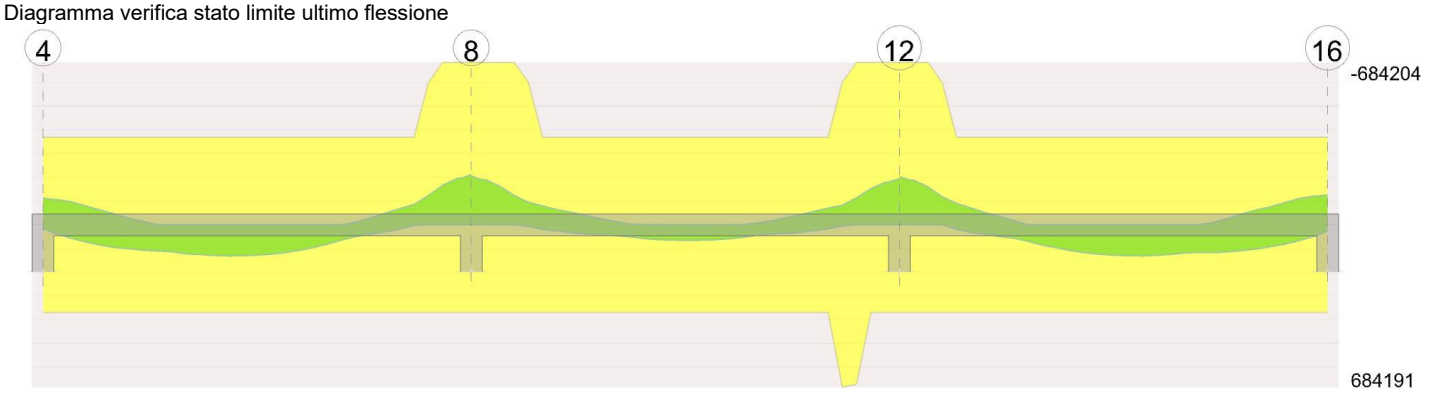


Diagramma verifica stato limite ultimo taglio

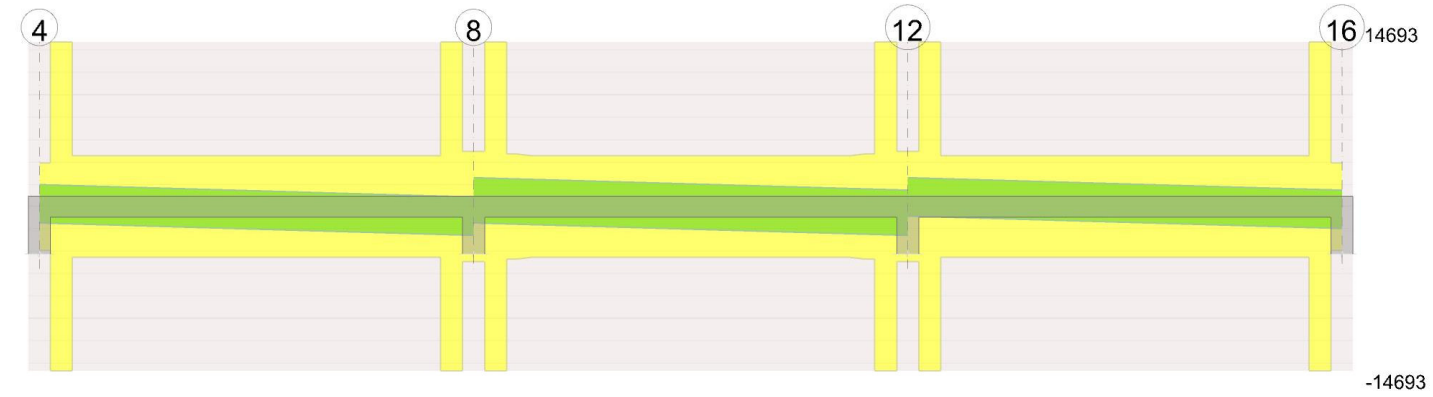
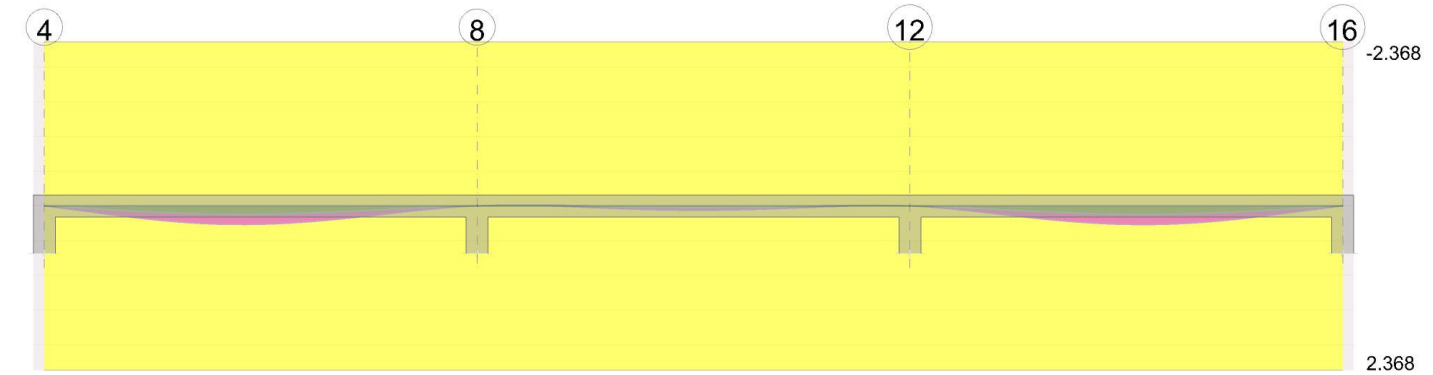


Diagramma verifica stato limite esercizio quasi permanente freccia



Output campate

Campata 1 tra i fili 4 - 8, sezione R 25x30, aste 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	4.02	5.1	4.02	5.1							-95283	SLU 10	-84877	-368751	0.191	4.34	Si
15	4.02	5.1	4.02	5.1							-75247	SLU 10	-75247	-368751	0.191	4.9	Si
257	4.02	5.1	4.02	5.1	131469	SLU 9	131469	368751	0.191	2.8							Si
296	4.02	5.1	4.02	5.1	126877	SLU 9	128230	368751	0.191	2.88							Si
577	8.04	5.1	4.02	5.1							-194970	SLU 10	-194970	-684204	0.265	3.51	Si
592	8.04	5.1	4.02	5.1							-227906	SLU 10	-210890	-684204	0.265	3.24	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	4.02	5.1	4.02	5.1	14924	SLV 15	14924	368751	0.191	24.71	-117695	SLV 1	-111597	-368751	0.191	3.3	Si
15	4.02	5.1	4.02	5.1	27167	SLV 15	35870	368751	0.191	10.28	-105999	SLV 1	-105999	-368751	0.191	3.48	Si
197	4.02	5.1	4.02	5.1	113741	SLV 15	113741	368751	0.191	3.24							Si
296	4.02	5.1	4.02	5.1	88241	SLV 15	92418	368751	0.191	3.99							Si
577	8.04	5.1	4.02	5.1							-137191	SLV 13	-137191	-684204	0.265	4.99	Si
592	8.04	5.1	4.02	5.1							-151505	SLV 13	-144063	-684204	0.265	4.75	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	4.02	5.1	4.02	5.1							-88621	SLD 1	-82460	-368751	0.191	4.47	Si
15	4.02	5.1	4.02	5.1	-2027	SLD 15	6587	368751	0.191	55.98	-76805	SLD 1	-76805	-368751	0.191	4.8	Si
197	4.02	5.1	4.02	5.1	96145	SLD 15	96145	368751	0.191	3.84							Si
296	4.02	5.1	4.02	5.1	82685	SLD 15	85480	368751	0.191	4.31							Si
577	8.04	5.1	4.02	5.1							-126330	SLD 13	-126330	-684204	0.265	5.42	Si
592	8.04	5.1	4.02	5.1							-142771	SLD 13	-134240	-684204	0.265	5.1	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	4.02	0	1322	SLU 9	1322	3935	26350	0	3935	1	2.98	Si
15	0.168	4.02	0	1284	SLU 9	1284	3935	26350	14693	14693	1	11.44	Si
296	0.052	4.02	0	-294	SLU 9	-294	-3935	-26350	-4566	-4566	1	15.51	Si
577	0.168	8.04	0	-2123	SLU 9	-2123	-4958	-26350	-14693	-14693	1	6.92	Si
592	0	8.04	0	-2160	SLU 9	-2160	-4958	-26350	0	-4958	1	2.3	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	4.02	0	812	Ger.	2000	3935	26350	0	3935	1	1.97	Si
0	0	4.02	0	773	Ger.	-1506	-3935	-26350	0	-3935	1	2.61	Si
15	0.168	4.02	0	783	Ger.	1972	3935	26350	14693	14693	1	7.45	Si
15	0.168	4.02	0	745	Ger.	-1534	-3935	-26350	-14693	-14693	1	9.58	Si
296	0.052	4.02	0	89	Ger.	1445	3935	26350	4566	4566	1	3.16	Si
296	0.052	4.02	0	-459	Ger.	-2061	-3935	-26350	-4566	-4566	1	2.22	Si
533	0.052	4.02	0	-796	Ger.	1001	3935	26350	4566	4566	1	4.56	Si
533	0.052	4.02	0	-848	Ger.	-2505	-3935	-26350	-4566	-4566	1	1.82	Si
577	0.168	8.04	0	-911	Ger.	918	4958	26350	14693	14693	1	16.01	Si
577	0.168	8.04	0	-1552	Ger.	-2588	-4958	-26350	-14693	-14693	1	5.68	Si
592	0	8.04	0	-940	Ger.	890	4958	26350	0	4958	1	5.57	Si
592	0	8.04	0	-1581	Ger.	-2616	-4958	-26350	0	-4958	1	1.9	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	4.02	0	803	SLD 13	803	3935	26350	0	3935	1	4.9	Si
15	0.168	4.02	0	775	SLD 13	775	3935	26350	14693	14693	1	18.97	Si
296	0.052	4.02	0	-339	SLD 15	-339	-3935	-26350	-4566	-4566	1	13.46	Si
577	0.168	8.04	0	-1412	SLD 1	-1412	-4958	-26350	-14693	-14693	1	10.41	Si
592	0	8.04	0	-1441	SLD 1	-1441	-4958	-26350	0	-4958	1	3.44	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-67215	5	-59701	13.2	199.2	197.3	3600	-51386	2	-45145	9.9	149.4			Si
15	-52759	5	-52759	11.6	199.2	174.4	3600	-39416	2	-39416	8.7	149.4			Si
296	91479	4	92515	20.4	199.2	305.8	3600	75570	2	76594	16.9	149.4			Si
577	-139545	5	-139545	29.7	199.2	408.3	3600	-112420	2	-112420	23.9	149.4			Si
592	-163167	5	-150956	32.1	199.2	441.7	3600	-131587	2	-121658	25.9	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.01	0.007	0.008	0.006	0.009	0.007	0.008	0.006	0.008	0.007	0.019	2	0.015	2	9999	Si
276	0.142	0.085	0.123	0.073	0.125	0.085	0.108	0.073	0.119	0.085	0.267	2	0.19	2	2214	Si
296	0.141	0.083	0.122	0.072	0.124	0.084	0.107	0.072	0.118	0.084	0.264	2	0.188	2	2240	Si
577	0.003	0.002	0.003	0.002	0.003	0.002	0.002	0.002	0.003	0.002	0.007	2	0.005	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
30	147.2	4.7	30	0.011	0.00061	0.01704	0	3935	26350	14693	14693	13643	14693	1972	492	SLV 1	Si
592	140.8	6.6	30	0.016	0.00035	0.02238	0	4958	26350	14693	14693	14281	14693	-2588	130	SLV 9	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	555	-1506	-1874	773	555	2000	1313	812
15	527	-1534	-1874	745	527	1972	1313	783
296	0	-2061	-1874	-459	0	1445	1313	89
577	-527	-2588	-1874	-1552	-527	918	1313	-911
592	-555	-2616	-1874	-1581	-555	890	1313	-940

Campata 2 tra i fili 8 - 12, sezione R 25x30, aste 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-220859	SLU 10	-205131	-684204	0.265	3.34	Si
15	8.04	5.1	4.02	5.1							-189677	SLU 10	-189677	-684204	0.265	3.61	Si
296	4.02	5.1	4.02	5.1	65637	SLU 10	65637	368751	0.191	5.62							Si
577	8.04	5.1	4.02	5.1							-178811	SLU 9	-178811	-684204	0.265	3.83	Si
592	8.04	5.1	4.02	5.1							-209463	SLU 9	-194000	-684204	0.265	3.53	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-155187	SLV 1	-148373	-684204	0.265	4.61	Si
15	8.04	5.1	4.02	5.1							-141769	SLV 1	-141769	-684204	0.265	4.83	Si
296	4.02	5.1	4.02	5.1	36572	SLV 13	38504	368751	0.191	9.58							Si
577	8.04	5.1	4.02	5.1							-125307	SLV 13	-125307	-684204	0.265	5.46	Si
592	8.04	5.1	4.02	5.1							-137320	SLV 13	-131208	-684204	0.265	5.21	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-142782	SLD 1	-134969	-684204	0.265	5.07	Si
15	8.04	5.1	4.02	5.1							-127366	SLD 1	-127366	-684204	0.265	5.37	Si
296	4.02	5.1	4.02	5.1	35172	SLD 13	36024	368751	0.191	10.24							Si
577	8.04	5.1	4.02	5.1							-114693	SLD 13	-114693	-684204	0.265	5.97	Si
592	8.04	5.1	4.02	5.1							-129155	SLD 13	-121818	-684204	0.265	5.62	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	2097	SLU 10	2097	4958	26350	0	4958	1	2.36	Si
15	0.168	8.04	0	2061	SLU 10	2061	4958	26350	14693	14693	1	7.13	Si
296	0.052	4.02	0	37	SLU 7	37	3935	26350	4566	4566	1	122.72	Si
296	0.052	4.02	0	-33	SLU 4	-33	-3935	-26350	-4566	-4566	1	138.65	Si
577	0.168	8.04	0	-2025	SLU 9	-2025	-4958	-26350	-14693	-14693	1	7.26	Si

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
592	0	8.04	0	-2062	SLU 9	-2062	-4958	-26350	0	-4958	1	2.4	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1522	Ger.	2617	4958	26350	0	4958	1	1.89	Si
0	0	8.04	0	903	Ger.	-1507	-4958	-26350	0	-4958	1	3.29	Si
15	0.168	8.04	0	1494	Ger.	2589	4958	26350	14693	14693	1	5.68	Si
15	0.168	8.04	0	875	Ger.	-1535	-4958	-26350	-14693	-14693	1	9.57	Si
79	0.052	4.02	0	729	Ger.	2469	3935	26350	4566	4566	1	1.85	Si
79	0.052	4.02	0	640	Ger.	-1655	-3935	-26350	-4566	-4566	1	2.76	Si
296	0.052	4.02	0	263	Ger.	2062	3935	26350	4566	4566	1	2.21	Si
296	0.052	4.02	0	-255	Ger.	-2062	-3935	-26350	-4566	-4566	1	2.21	Si
577	0.168	8.04	0	-781	Ger.	1535	4958	26350	14693	14693	1	9.57	Si
577	0.168	8.04	0	-1538	Ger.	-2589	-4958	-26350	-14693	-14693	1	5.68	Si
592	0	8.04	0	-809	Ger.	1507	4958	26350	0	4958	1	3.29	Si
592	0	8.04	0	-1566	Ger.	-2617	-4958	-26350	0	-4958	1	1.89	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1386	SLD 13	1386	4958	26350	0	4958	1	3.58	Si
15	0.168	8.04	0	1358	SLD 13	1358	4958	26350	14693	14693	1	10.82	Si
296	0.052	4.02	0	149	SLD 3	149	3935	26350	4566	4566	1	30.55	Si
296	0.052	4.02	0	-142	SLD 13	-142	-3935	-26350	-4566	-4566	1	32.22	Si
577	0.168	8.04	0	-1372	SLD 1	-1372	-4958	-26350	-14693	-14693	1	10.71	Si
592	0	8.04	0	-1400	SLD 1	-1400	-4958	-26350	0	-4958	1	3.54	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente						Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-157950	5	-146686	31.2	199.2	429.2	3600	-126896	2	-117802	25	149.4			Si
15	-135632	5	-135632	28.8	199.2	396.9	3600	-108920	2	-108920	23.1	149.4			Si
296	45741	5	45741	10.1	199.2	151.2	3600	33380	2	33380	7.4	149.4			Si
577	-127423	4	-127423	27.1	199.2	372.9	3600	-101100	2	-101100	21.5	149.4			Si
592	-149340	4	-138276	29.4	199.2	404.6	3600	-118697	2	-109793	23.3	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	-0.002	-0.003	-0.002	-0.003	-0.002	-0.003	-0.002	-0.003	-0.002	-0.003	-0.006	1	-0.006	1	9999	Si
296	0.039	0.007	0.034	0.005	0.029	0.007	0.026	0.005	0.026	0.007	0.061	2	0.015	2	9725	Si
577	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.004	1	-0.005	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
622	214.2	6.6	30	0.016	0.00079	0.02237	0	4958	26350	14693	14693	13985	14693	2589	991	SLV 1	Si
1184	159.1	6.6	30	0.016	0.00033	0.02237	0	4958	26350	14693	14693	13985	14693	-2589	861	SLV 9	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	555	-1507	-1875	903	555	2617	1875	1522
15	527	-1535	-1875	875	527	2589	1875	1494
296	0	-2062	-1875	-255	0	2062	1875	263
577	-527	-2589	-1875	-1538	-527	1535	1875	-781
592	-555	-2617	-1875	-1566	-555	1507	1875	-809

Campata 3 tra i fili 12 - 16, sezione R 25x30, aste 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-219285	SLU 9	-202814	-684204	0.265	3.37	Si
15	8.04	5.1	4.02	5.1							-187410	SLU 9	-187410	-684204	0.265	3.65	Si
296	4.02	5.1	4.02	5.1	126549	SLU 9	128188	368751	0.191	2.88							Si
335	4.02	5.1	4.02	5.1	131369	SLU 9	131369	368751	0.191	2.81							Si
577	4.02	5.1	4.02	5.1							-78238	SLU 10	-78238	-368751	0.191	4.71	Si
592	4.02	5.1	4.02	5.1							-98310	SLU 10	-87886	-368751	0.191	4.2	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-158186	SLV 1	-150839	-684204	0.265	4.54	Si
15	8.04	5.1	4.02	5.1							-144056	SLV 1	-144056	-684204	0.265	4.75	Si
296	4.02	5.1	4.02	5.1	88952	SLV 1	93876	368751	0.191	3.93							Si
577	4.02	5.1	4.02	5.1	37053	SLV 3	45738	368751	0.191	8.06	-120151	SLV 13	-120151	-368751	0.191	3.07	Si
592	4.02	5.1	4.02	5.1	24833	SLV 3	24833	368751	0.191	14.85	-131920	SLV 13	-125782	-368751	0.191	2.93	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-143805	SLD 1	-135498	-684204	0.265	5.05	Si
15	8.04	5.1	4.02	5.1							-127802	SLD 1	-127802	-684204	0.265	5.35	Si
296	4.02	5.1	4.02	5.1	82951	SLD 1	86271	368751	0.191	4.27							Si
375	4.02	5.1	4.02	5.1	97449	SLD 3	97449	368751	0.191	3.78							Si
577	4.02	5.1	4.02	5.1	2589	SLD 3	11201	368751	0.191	32.92	-85687	SLD 13	-85687	-368751	0.191	4.3	Si
592	4.02	5.1	4.02	5.1							-97555	SLD 13	-91367	-368751	0.191	4.04	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	2091	SLU 9	2091	4958	26350	0	4958	1	2.37	Si
15	0.168	8.04	0	2054	SLU 9	2054	4958	26350	14693	14693	1	7.15	Si
296	0.052	4.02	0	170	SLU 6	170	3935	26350	4566	4566	1	26.88	Si
577	0.168	4.02	0	-1287	SLU 9	-1287	-3935	-26350	-14693	-14693	1	11.42	Si
592	0	4.02	0	-1324	SLU 9	-1324	-3935	-26350	0	-3935	1	2.97	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1493	Ger.	2616	4958	26350	0	4958	1	1.9	Si

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	929	Ger.	-890	-4958	-26350	0	-4958	1	5.57	Si
15	0.168	8.04	0	1464	Ger.	2588	4958	26350	14693	14693	1	5.68	Si
15	0.168	8.04	0	900	Ger.	-918	-4958	-26350	-14693	-14693	1	16.01	Si
59	0.052	4.02	0	807	Ger.	2505	3935	26350	4566	4566	1	1.82	Si
59	0.052	4.02	0	793	Ger.	-1001	-3935	-26350	-4566	-4566	1	4.56	Si
296	0.052	4.02	0	453	Ger.	2061	3935	26350	4566	4566	1	2.22	Si
296	0.052	4.02	0	-193	Ger.	-1445	-3935	-26350	-4566	-4566	1	3.16	Si
577	0.168	4.02	0	-750	Ger.	1534	3935	26350	14693	14693	1	9.58	Si
577	0.168	4.02	0	-781	Ger.	-1972	-3935	-26350	-14693	-14693	1	7.45	Si
592	0	4.02	0	-779	Ger.	1506	3935	26350	0	3935	1	2.61	Si
592	0	4.02	0	-810	Ger.	-2000	-3935	-26350	0	-3935	1	1.97	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1369	SLD 13	1369	4958	26350	0	4958	1	3.62	Si
15	0.168	8.04	0	1341	SLD 13	1341	4958	26350	14693	14693	1	10.96	Si
296	0.052	4.02	0	311	SLD 3	311	3935	26350	4566	4566	1	14.67	Si
296	0.052	4.02	0	-51	SLD 13	-51	-3935	-26350	-4566	-4566	1	89.26	Si
577	0.168	4.02	0	-774	SLD 1	-774	-3935	-26350	-14693	-14693	1	18.97	Si
592	0	4.02	0	-803	SLD 1	-803	-3935	-26350	0	-3935	1	4.9	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-156655	4	-144855	30.8	199.2	423.9	3600	-125387	2	-115851	24.6	149.4			Si
15	-133835	4	-133835	28.4	199.2	391.6	3600	-106986	2	-106986	22.7	149.4			Si
296	91212	4	92474	20.4	199.2	305.6	3600	75265	2	76531	16.9	149.4			Si
577	-55015	5	-55015	12.1	199.2	181.8	3600	-41549	2	-41549	9.2	149.4			Si
592	-69498	5	-61970	13.7	199.2	204.8	3600	-53544	2	-47290	10.4	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.004	0.003	0.003	0.002	0.003	0.003	0.003	0.002	0.003	0.003	0.008	2	0.006	2	9999	Si
296	0.142	0.084	0.122	0.073	0.125	0.084	0.108	0.073	0.119	0.084	0.266	2	0.19	2	2222	Si
316	0.143	0.085	0.123	0.074	0.126	0.085	0.109	0.074	0.12	0.085	0.269	2	0.192	2	2203	Si
577	0.01	0.006	0.008	0.006	0.009	0.006	0.007	0.006	0.008	0.006	0.018	2	0.014	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
1214	165.3	6.6	30	0.016	0.00069	0.02238	0	4958	26350	14693	14693	13985	14693	2588	1090	SLV 1	Si
1776	100.7	4.7	30	0.011	0.0002	0.01704	0	3935	26350	14693	14693	14642	14693	-1972	798	SLV 9	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	555	-890	-1313	929	555	2616	1874	1493
15	527	-918	-1313	900	527	2588	1874	1464
296	0	-1445	-1313	-193	0	2061	1874	453
577	-527	-1972	-1313	-781	-527	1534	1874	-750
592	-555	-2000	-1313	-810	-555	1506	1874	-779

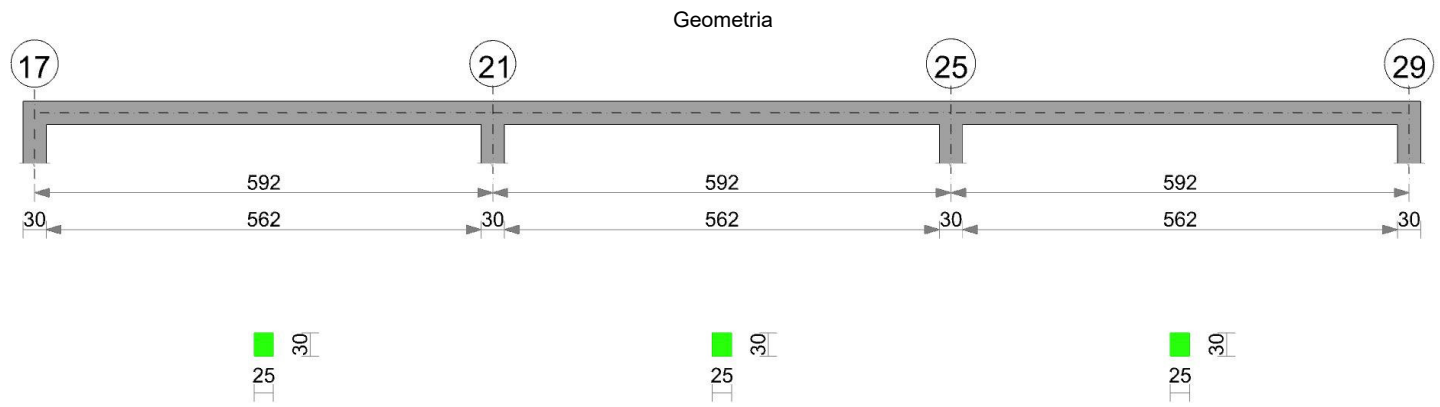
Momenti resistenti a filo appoggi

campata	x	appoggio	momento positivo	momento negativo
1	15	4	368751	-368751
1	577	8	369360	-684204
2	15	8	369360	-684204
2	577	12	369360	-684204
3	15	12	369360	-684204
3	577	16	368751	-368751

Controllo diametro delle barre longitudinali nei nodi

Nessun nodo è da verificare

Trave a "Piano 1" 17-29



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500

Calcestruzzo: C32/40 Rck 400

Elenco delle sezioni

N°	Descrizione	Tipo	Base	Altezza	Copriferro sup.	Copriferro inf.	Copriferro lat.
1	R 25x30	Rettangolare	25	30	3.5	3.5	3.5

Diagramma verifica stato limite ultimo flessione

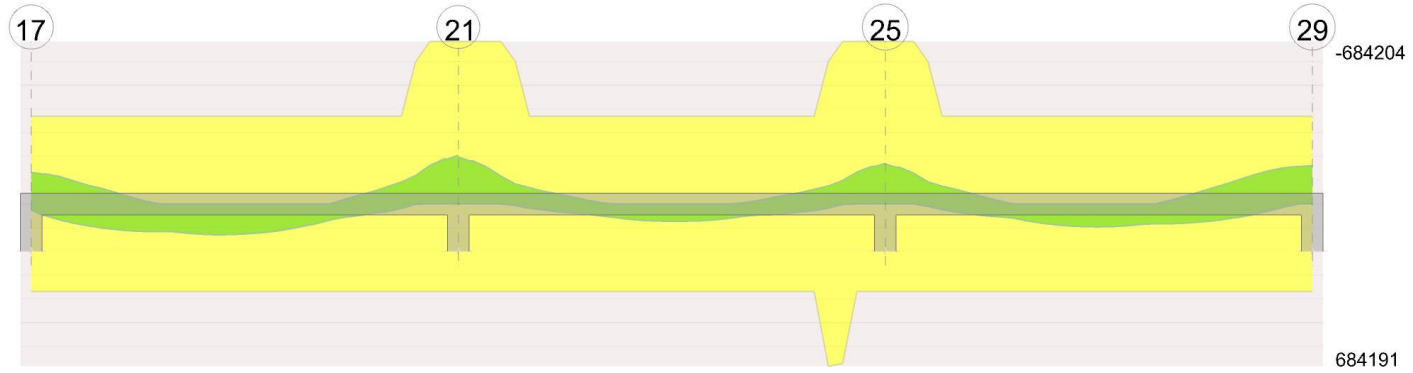


Diagramma verifica stato limite ultimo taglio

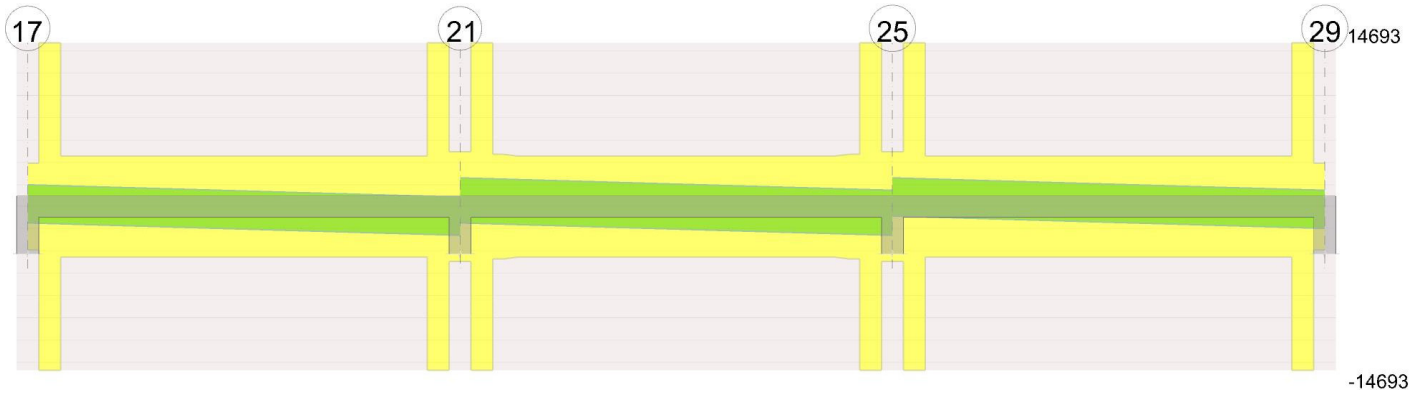
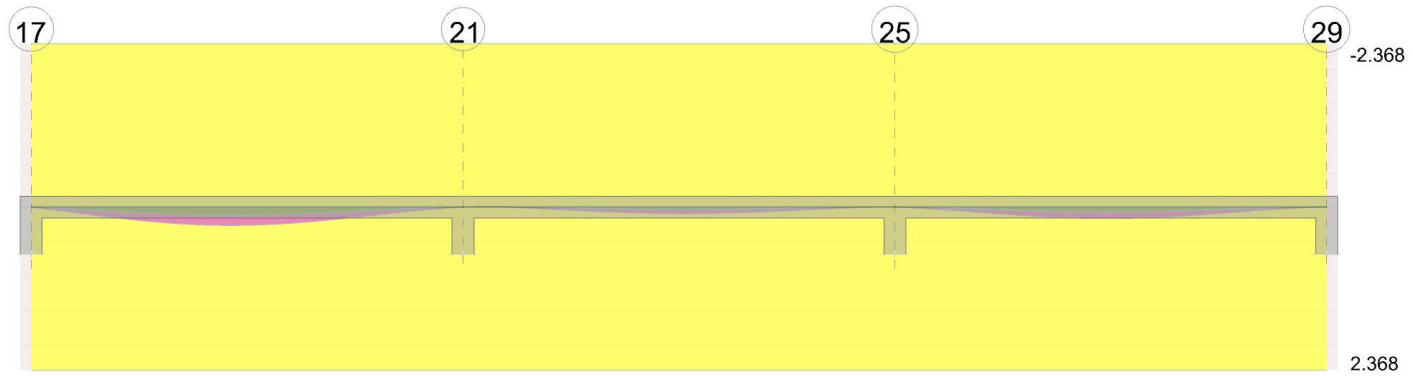


Diagramma verifica stato limite esercizio quasi permanente freccia



Output campate

Campata 1 tra i fili 17 - 21, sezione R 25x30, aste 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	4.02	5.1	4.02	5.1							-102554	SLU 10	-91668	-368751	0.191	4.02	Si
15	4.02	5.1	4.02	5.1							-81580	SLU 10	-81580	-368751	0.191	4.52	Si
257	4.02	5.1	4.02	5.1	130117	SLU 9	130117	368751	0.191	2.83							Si
296	4.02	5.1	4.02	5.1	124965	SLU 9	126697	368751	0.191	2.91							Si
577	8.04	5.1	4.02	5.1							-189786	SLU 9	-189786	-684204	0.265	3.61	Si
592	8.04	5.1	4.02	5.1							-221691	SLU 9	-205203	-684204	0.265	3.33	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	4.02	5.1	4.02	5.1	26079	SLV 13	26079	368751	0.191	14.14	-139532	SLV 3	-132726	-368751	0.191	2.78	Si
15	4.02	5.1	4.02	5.1	37979	SLV 13	46428	368751	0.191	7.94	-126459	SLV 3	-126459	-368751	0.191	2.92	Si
296	4.02	5.1	4.02	5.1	87866	SLV 13	92794	368751	0.191	3.97							Si
577	8.04	5.1	4.02	5.1							-147436	SLV 15	-147436	-684204	0.265	4.64	Si
592	8.04	5.1	4.02	5.1							-162167	SLV 15	-154587	-684204	0.265	4.43	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	4.02	5.1	4.02	5.1							-103202	SLD 3	-96528	-368751	0.191	3.82	Si

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
15	4.02	5.1	4.02	5.1	1906	SLD 13	10545	368751	0.191	34.97	-90386	SLD 3	-90386	-368751	0.191	4.08	Si
296	4.02	5.1	4.02	5.1	81818	SLD 13	85148	368751	0.191	4.33							Si
577	8.04	5.1	4.02	5.1							-130260	SLD 15	-130260	-684204	0.265	5.25	Si
592	8.04	5.1	4.02	5.1							-146669	SLD 15	-138196	-684204	0.265	4.95	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	4.02	0	1383	SLU 9	1383	3935	26350	0	3935	1	2.85	Si
15	0.168	4.02	0	1345	SLU 9	1345	3935	26350	14693	14693	1	10.92	Si
296	0.052	4.02	0	-177	SLU 9	-177	-3935	-26350	-4566	-4566	1	25.85	Si
577	0.168	8.04	0	-2056	SLU 9	-2056	-4958	-26350	-14693	-14693	1	7.15	Si
592	0	8.04	0	-2093	SLU 9	-2093	-4958	-26350	0	-4958	1	2.37	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	4.02	0	864	Ger.	2000	3935	26350	0	3935	1	1.97	Si
0	0	4.02	0	788	Ger.	-1506	-3935	-26350	0	-3935	1	2.61	Si
15	0.168	4.02	0	836	Ger.	1972	3935	26350	14693	14693	1	7.45	Si
15	0.168	4.02	0	759	Ger.	-1534	-3935	-26350	-14693	-14693	1	9.58	Si
296	0.052	4.02	0	189	Ger.	1445	3935	26350	4566	4566	1	3.16	Si
296	0.052	4.02	0	-452	Ger.	-2061	-3935	-26350	-4566	-4566	1	2.22	Si
533	0.052	4.02	0	-792	Ger.	1001	3935	26350	4566	4566	1	4.56	Si
533	0.052	4.02	0	-823	Ger.	-2505	-3935	-26350	-4566	-4566	1	1.82	Si
577	0.168	8.04	0	-942	Ger.	918	4958	26350	14693	14693	1	16.01	Si
577	0.168	8.04	0	-1441	Ger.	-2588	-4958	-26350	-14693	-14693	1	5.68	Si
592	0	8.04	0	-971	Ger.	890	4958	26350	0	4958	1	5.57	Si
592	0	8.04	0	-1469	Ger.	-2616	-4958	-26350	0	-4958	1	1.9	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	4.02	0	848	SLD 3	848	3935	26350	0	3935	1	4.64	Si
15	0.168	4.02	0	819	SLD 3	819	3935	26350	14693	14693	1	17.94	Si
296	0.052	4.02	0	48	SLD 3	48	3935	26350	4566	4566	1	94.94	Si
296	0.052	4.02	0	-312	SLD 13	-312	-3935	-26350	-4566	-4566	1	14.65	Si
577	0.168	8.04	0	-1331	SLD 3	-1331	-4958	-26350	-14693	-14693	1	11.04	Si
592	0	8.04	0	-1360	SLD 3	-1360	-4958	-26350	0	-4958	1	3.65	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-72749	5	-64894	14.3	199.2	214.5	3600	-56726	2	-50221	11.1	149.4			Si
15	-57629	5	-57629	12.7	199.2	190.5	3600	-44240	2	-44240	9.7	149.4			Si
296	90011	4	91330	20.1	199.2	301.9	3600	74109	2	75394	16.6	149.4			Si
577	-135491	4	-135491	28.8	199.2	396.5	3600	-108195	2	-108195	23	149.4			Si
592	-158367	4	-146538	31.1	199.2	428.8	3600	-126740	2	-117131	24.9	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente						Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.009	0.006	0.008	0.005	0.008	0.006	0.007	0.005	0.008	0.006	0.018	2	0.013	2	9999	Si
276	0.14	0.083	0.121	0.071	0.123	0.083	0.106	0.071	0.117	0.083	0.263	2	0.186	2	2255	Si
296	0.139	0.082	0.12	0.071	0.122	0.082	0.105	0.071	0.116	0.082	0.26	2	0.184	2	2276	Si
577	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.002	0.003	0.003	0.007	2	0.006	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
30	157.7	4.7	30	0.011	0.00075	0.01704	0	3935	26350	14693	14693	13582	14693	1972	695	SLV 1	Si
592	143.8	6.6	30	0.016	0.00036	0.02238	0	4958	26350	14693	14693	14184	14693	-2588	255	SLV 9	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	555	-1506	-1874	788	555	2000	1313	864
15	527	-1534	-1874	759	527	1972	1313	836
296	0	-2061	-1874	-452	0	1445	1313	189
577	-527	-2588	-1874	-1441	-527	918	1313	-942
592	-555	-2616	-1874	-1469	-555	890	1313	-971

Campata 2 tra i fili 21 - 25, sezione R 25x30, aste 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-212744	SLU 9	-197336	-684204	0.265	3.47	Si
15	8.04	5.1	4.02	5.1							-182202	SLU 9	-182202	-684204	0.265	3.76	Si
296	4.02	5.1	4.02	5.1	73088	SLU 10	73088	368751	0.191	5.05							Si
577	8.04	5.1	4.02	5.1							-157460	SLU 9	-157460	-684204	0.265	4.35	Si
592	8.04	5.1	4.02	5.1							-184344	SLU 9	-170765	-684204	0.265	4.01	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-140885	SLV 3	-134736	-684204	0.265	5.08	Si
15	8.04	5.1	4.02	5.1							-128627	SLV 3	-128627	-684204	0.265	5.32	Si
296	4.02	5.1	4.02	5.1	39108	SLV 3	41685	368751	0.191	8.85							Si
577	8.04	5.1	4.02	5.1							-115403	SLV 15	-115403	-684204	0.265	5.93	Si
592	8.04	5.1	4.02	5.1							-125713	SLV 15	-120551	-684204	0.265	5.68	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-132175	SLD 3	-124828	-684204	0.265	5.48	Si
15	8.04	5.1	4.02	5.1							-117595	SLD 3	-117595	-684204	0.265	5.82	Si
296	4.02	5.1	4.02	5.1	38741	SLD 3	40119	368751	0.191	9.19							Si
577	8.04	5.1	4.02	5.1							-103146	SLD 15	-103146	-684204	0.265	6.63	Si

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
592	8.04	5.1	4.02	5.1							-115649	SLD 15	-109347	-684204	0.265	6.26	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	2054	SLU 9	2054	4958	26350	0	4958	1	2.41	Si
15	0.168	8.04	0	2018	SLU 9	2018	4958	26350	14693	14693	1	7.28	Si
296	0.052	4.02	0	38	SLU 7	38	3935	26350	4566	4566	1	119.76	Si
296	0.052	4.02	0	-30	SLU 4	-30	-3935	-26350	-4566	-4566	1	151.3	Si
577	0.168	8.04	0	-1774	SLU 9	-1774	-4958	-26350	-14693	-14693	1	8.28	Si
592	0	8.04	0	-1811	SLU 9	-1811	-4958	-26350	0	-4958	1	2.74	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1539	Ger.	2617	4958	26350	0	4958	1	1.89	Si
0	0	8.04	0	830	Ger.	-1507	-4958	-26350	0	-4958	1	3.29	Si
15	0.168	8.04	0	1511	Ger.	2589	4958	26350	14693	14693	1	5.68	Si
15	0.168	8.04	0	802	Ger.	-1535	-4958	-26350	-14693	-14693	1	9.57	Si
79	0.052	4.02	0	754	Ger.	2469	3935	26350	4566	4566	1	1.85	Si
79	0.052	4.02	0	610	Ger.	-1655	-3935	-26350	-4566	-4566	1	2.76	Si
296	0.052	4.02	0	255	Ger.	2062	3935	26350	4566	4566	1	2.21	Si
296	0.052	4.02	0	-245	Ger.	-2062	-3935	-26350	-4566	-4566	1	2.21	Si
577	0.168	8.04	0	-671	Ger.	1535	4958	26350	14693	14693	1	9.57	Si
577	0.168	8.04	0	-1344	Ger.	-2589	-4958	-26350	-14693	-14693	1	5.68	Si
592	0	8.04	0	-700	Ger.	1507	4958	26350	0	4958	1	3.29	Si
592	0	8.04	0	-1372	Ger.	-2617	-4958	-26350	0	-4958	1	1.89	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1384	SLD 15	1384	4958	26350	0	4958	1	3.58	Si
15	0.168	8.04	0	1356	SLD 15	1356	4958	26350	14693	14693	1	10.84	Si
296	0.052	4.02	0	145	SLD 1	145	3935	26350	4566	4566	1	31.44	Si
296	0.052	4.02	0	-135	SLD 15	-135	-3935	-26350	-4566	-4566	1	33.87	Si
577	0.168	8.04	0	-1197	SLD 3	-1197	-4958	-26350	-14693	-14693	1	12.28	Si
592	0	8.04	0	-1225	SLD 3	-1225	-4958	-26350	0	-4958	1	4.05	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-151850	4	-140822	29.9	199.2	412.1	3600	-121172	2	-112288	23.9	149.4			Si
15	-130005	4	-130005	27.6	199.2	380.4	3600	-103614	2	-103614	22	149.4			Si
296	51257	5	51257	11.3	199.2	169.4	3600	38315	2	38315	8.4	149.4			Si
577	-111840	4	-111840	23.8	199.2	327.3	3600	-87705	2	-87705	18.6	149.4			Si
592	-131032	4	-121331	25.8	199.2	355	3600	-103028	2	-95261	20.2	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	-0.001	-0.002	-0.001	-0.002	-0.001	-0.002	-0.001	-0.001	-0.001	-0.001	-0.003	1	-0.003	1	9999	Si
296	0.053	0.017	0.047	0.015	0.042	0.017	0.037	0.015	0.038	0.017	0.09	2	0.039	2	6565	Si
577	0	-0.001	0	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	2	-0.001	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
622	194.1	6.6	30	0.016	0.00063	0.02237	0	4958	26350	14693	14693	13985	14693	2589	912	SLV 1	Si
1184	153	6.6	30	0.016	0.00024	0.02237	0	4958	26350	14693	14693	13985	14693	-2589	901	SLV 9	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	555	-1507	-1875	830	555	2617	1875	1539
15	527	-1535	-1875	802	527	2589	1875	1511
296	0	-2062	-1875	-245	0	2062	1875	255
577	-527	-2589	-1875	-1344	-527	1535	1875	-671
592	-555	-2617	-1875	-1372	-555	1507	1875	-700

Campata 3 tra i fili 25 - 29, sezione R 25x30, aste 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-182546	SLU 9	-168276	-684204	0.265	4.07	Si
15	8.04	5.1	4.02	5.1							-154281	SLU 9	-154281	-684204	0.265	4.43	Si
296	4.02	5.1	4.02	5.1	96772	SLU 9	96772	368751	0.191	3.81							Si
577	4.02	5.1	4.02	5.1							-151890	SLU 10	-151890	-368751	0.191	2.43	Si
592	4.02	5.1	4.02	5.1							-167477	SLU 10	-159547	-368751	0.191	2.31	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-133929	SLV 3	-127697	-684204	0.265	5.36	Si
15	8.04	5.1	4.02	5.1							-121541	SLV 3	-121541	-684204	0.265	5.63	Si
296	4.02	5.1	4.02	5.1	70394	SLV 3	73079	368751	0.191	5.05							Si
577	4.02	5.1	4.02	5.1							-158173	SLV 13	-158173	-368751	0.191	2.33	Si
592	4.02	5.1	4.02	5.1							-165154	SLV 13	-161558	-368751	0.191	2.28	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-120243	SLD 3	-113121	-684204	0.265	6.05	Si
15	8.04	5.1	4.02	5.1							-106134	SLD 3	-106134	-684204	0.265	6.45	Si
296	4.02	5.1	4.02	5.1	64866	SLD 3	65920	368751	0.191	5.59							Si
577	4.02	5.1	4.02	5.1							-126647	SLD 13	-126647	-368751	0.191	2.91	Si
592	4.02	5.1	4.02	5.1							-134699	SLD 13	-130567	-368751	0.191	2.82	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1903	SLU 9	1903	4958	26350	0	4958	1	2.61	Si
15	0.168	8.04	0	1866	SLU 9	1866	4958	26350	14693	14693	1	7.87	Si
296	0.052	4.02	0	89	SLU 9	89	3935	26350	4566	4566	1	51.5	Si
577	0.168	4.02	0	-1021	SLU 9	-1021	-3935	-26350	-14693	-14693	1	14.39	Si
592	0	4.02	0	-1058	SLU 9	-1058	-3935	-26350	0	-3935	1	3.72	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1361	Ger.	2616	4958	26350	0	4958	1	1.9	Si
0	0	8.04	0	839	Ger.	-890	-4958	-26350	0	-4958	1	5.57	Si
15	0.168	8.04	0	1333	Ger.	2588	4958	26350	14693	14693	1	5.68	Si
15	0.168	8.04	0	811	Ger.	-918	-4958	-26350	-14693	-14693	1	16.01	Si
59	0.052	4.02	0	732	Ger.	2505	3935	26350	4566	4566	1	1.82	Si
59	0.052	4.02	0	713	Ger.	-1001	-3935	-26350	-4566	-4566	1	4.56	Si
296	0.052	4.02	0	374	Ger.	2061	3935	26350	4566	4566	1	2.22	Si
296	0.052	4.02	0	-259	Ger.	-1445	-3935	-26350	-4566	-4566	1	3.16	Si
577	0.168	4.02	0	-451	Ger.	1534	3935	26350	14693	14693	1	9.58	Si
577	0.168	4.02	0	-778	Ger.	-1972	-3935	-26350	-14693	-14693	1	7.45	Si
592	0	4.02	0	-479	Ger.	1506	3935	26350	0	3935	1	2.61	Si
592	0	4.02	0	-806	Ger.	-2000	-3935	-26350	0	-3935	1	1.97	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1246	SLD 15	1246	4958	26350	0	4958	1	3.98	Si
15	0.168	8.04	0	1218	SLD 15	1218	4958	26350	14693	14693	1	12.06	Si
296	0.052	4.02	0	235	SLD 1	235	3935	26350	4566	4566	1	19.42	Si
296	0.052	4.02	0	-121	SLD 15	-121	-3935	-26350	-4566	-4566	1	37.8	Si
577	0.168	4.02	0	-706	SLD 3	-706	-3935	-26350	-14693	-14693	1	20.8	Si
592	0	4.02	0	-734	SLD 3	-734	-3935	-26350	0	-3935	1	5.36	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-129886	4	-119667	25.4	199.2	350.2	3600	-102497	2	-94248	20	149.4			Si
15	-109658	4	-109658	23.3	199.2	320.9	3600	-86209	2	-86209	18.3	149.4			Si
296	69805	4	69805	15.4	199.2	230.7	3600	57754	2	57754	12.7	149.4			Si
577	-108327	5	-108327	23.9	199.2	358	3600	-86116	2	-86116	19	149.4			Si
592	-119604	5	-113860	25.1	199.2	376.3	3600	-95544	2	-90724	20	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	2	0.004	2	9999	Si
296	0.082	0.051	0.074	0.046	0.073	0.051	0.065	0.046	0.069	0.051	0.162	2	0.119	2	3645	Si
577	0.001	0.001	0.001	0	0.001	0.001	0.001	0.001	0.001	0.001	0.003	1	0.002	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
1214	162.3	6.6	30	0.016	0.00056	0.02238	0	4958	26350	14693	14693	13985	14693	2588	986	SLV 1	Si
1776	106.1	4.7	30	0.011	0.00002	0.01704	0	3935	26350	14693	14693	14526	14693	-1972	928	SLV 5	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	555	-890	-1313	839	555	2616	1874	1361
15	527	-918	-1313	811	527	2588	1874	1333
296	0	-1445	-1313	-259	0	2061	1874	374
577	-527	-1972	-1313	-778	-527	1534	1874	-451
592	-555	-2000	-1313	-806	-555	1506	1874	-479

Momenti resistenti a filo appoggi

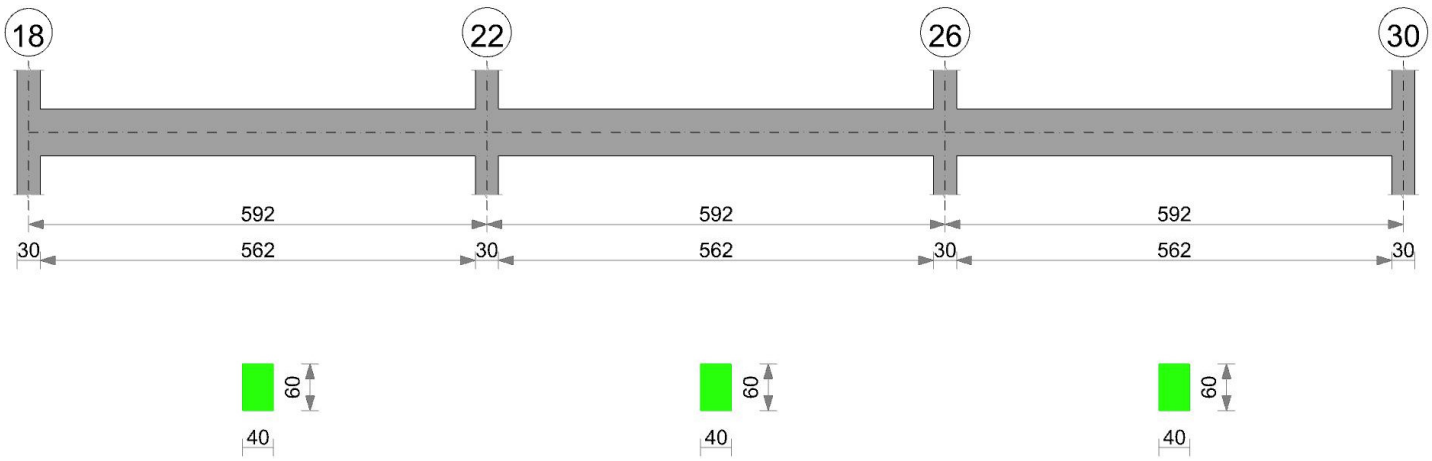
campata	x	appoggio	momento positivo	momento negativo
1	15	17	368751	-368751
1	577	21	369360	-684204
2	15	21	369360	-684204
2	577	25	369360	-684204
3	15	25	369360	-684204
3	577	29	368751	-368751

Controllo diametro delle barre longitudinali nei nodi

Nessun nodo è da verificare

Trave a "Piano 1" 18-30

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Elenco delle sezioni

N°	Descrizione	Tipo	Base	Altezza	Copriferro sup.	Copriferro inf.	Copriferro lat.
1	R 40x60	Rettangolare	40	60	3.5	3.5	3.5

Diagramma verifica stato limite ultimo flessione

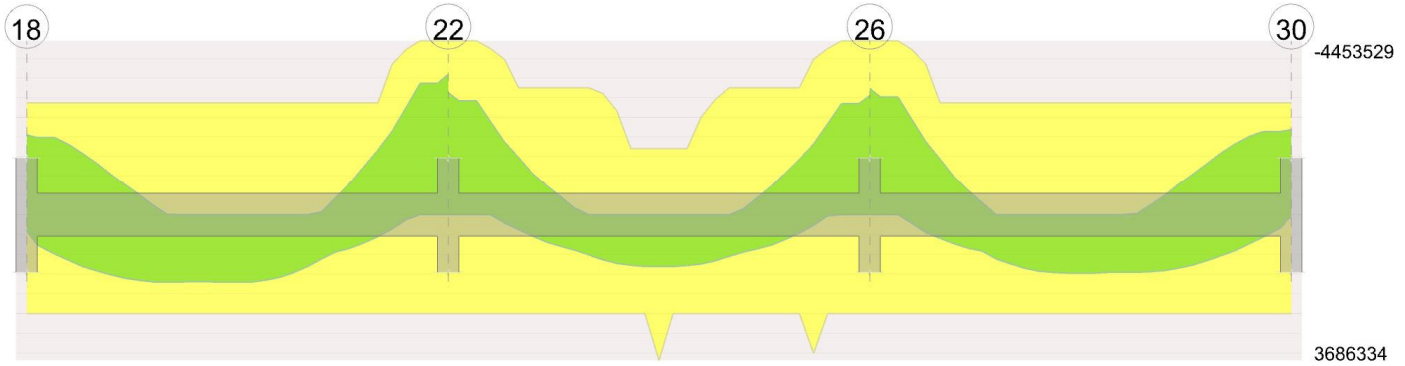


Diagramma verifica stato limite ultimo taglio

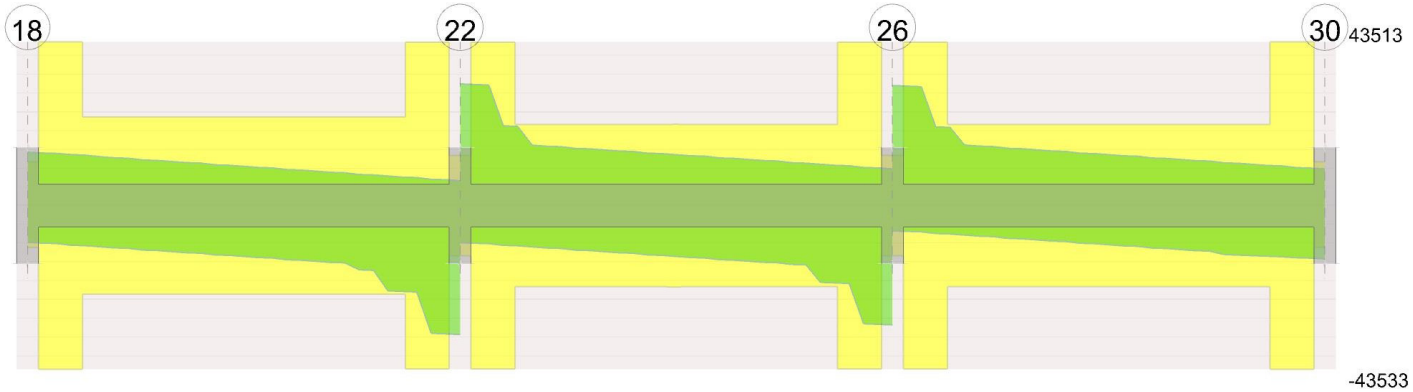
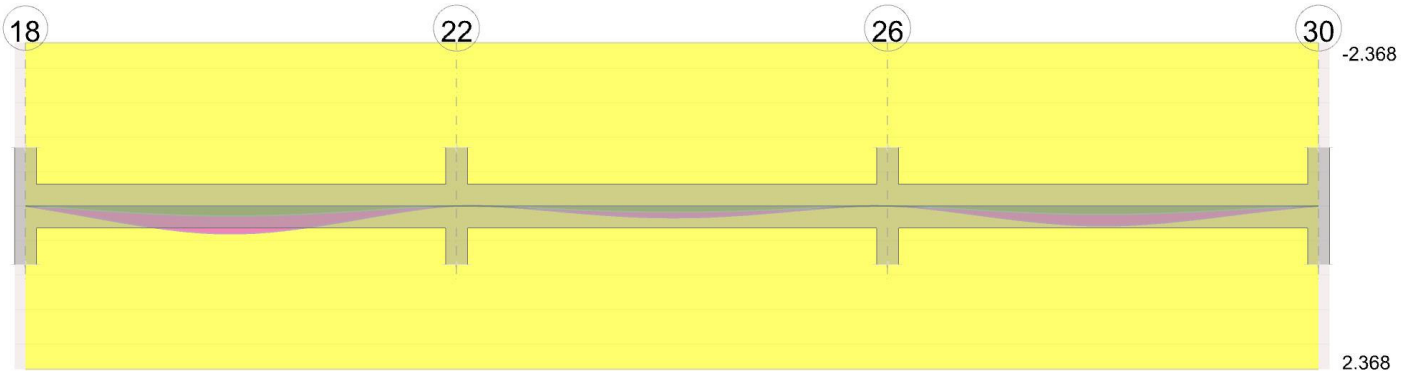


Diagramma verifica stato limite esercizio quasi permanente freccia



Output campate

Campata 1 tra i fili 18 - 22, sezione R 40x60, aste 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	14.33	5.4	12.44	5.4							-1155613	SLU 10	-1058360	-2869418	0.12	2.71	Si
15	14.33	5.4	12.44	5.4							-966675	SLU 10	-966675	-2869418	0.12	2.97	Si
296	14.33	5.4	12.44	5.4	1708488	SLU 9	1708488	2506498	0.112	1.47							Si
577	22.62	5.4	12.44	5.4							-3041490	SLU 9	-3041490	-4453529	0.162	1.46	Si
592	22.62	5.4	12.44	5.4							-3568355	SLU 9	-3297964	-4453529	0.162	1.35	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	14.33	5.4	12.44	5.4	415884	SLV 13	415884	2506498	0.112	6.03	-2120238	SLV 3	-2049075	-2869418	0.12	1.4	Si
15	14.33	5.4	12.44	5.4	550581	SLV 13	768720	2506498	0.112	3.26	-1981997	SLV 3	-1981997	-2869418	0.12	1.45	Si
296	14.33	5.4	12.44	5.4	1478708	SLV 13	1589901	2506498	0.112	1.58							Si
577	22.62	5.4	12.44	5.4							-3367061	SLV 13	-3367061	-4453529	0.162	1.32	Si
592	22.62	5.4	12.44	5.4							-3841380	SLV 13	-3598014	-4453529	0.162	1.24	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	14.33	5.4	12.44	5.4							-1563925	SLD 3	-1493151	-2869418	0.12	1.92	Si
15	14.33	5.4	12.44	5.4	-4963	SLD 13	214527	2506498	0.112	11.68	-1426453	SLD 3	-1426453	-2869418	0.12	2.01	Si
296	14.33	5.4	12.44	5.4	1370601	SLD 13	1427027	2506498	0.112	1.76							Si
577	22.62	5.4	12.44	5.4							-2863688	SLD 13	-2863688	-4453529	0.162	1.56	Si
592	22.62	5.4	12.44	5.4							-3302175	SLD 13	-3077168	-4453529	0.162	1.45	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	14.33	0	12345	SLU 9	12345	11749	92470	0	11749	1	0.95	Si
15	0.226	14.33	0	12225	SLU 9	12225	11749	92470	43504	43504	1	3.56	Si
296	0.123	12.44	0	-3228	SLU 9	-3228	-11213	-92531	-23638	-23638	1	7.32	Si
577	0.226	19.44	0	-34196	SLU 9	-34196	-13004	-92400	-43471	-43471	1	1.27	Si
592	0	21.44	0	-34316	SLU 9	-34316	-13435	-92400	0	-13435	1	0.39	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	14.33	0	9036	Ger.	14277	11749	92470	0	11749	1	0.82	Si
0	0	12.44	0	8803	Ger.	-9866	-11213	-92531	0	-11213	1	1.14	Si
15	0.226	14.33	0	8944	Ger.	14102	11749	92470	43504	43504	1	3.08	Si
15	0.226	12.44	0	8710	Ger.	-10041	-11213	-92531	-43533	-43533	1	4.34	Si
296	0.123	12.44	0	2040	Ger.	10520	11213	92531	23638	23638	1	2.25	Si
296	0.123	12.44	0	-6464	Ger.	-13623	-11213	-92531	-23638	-23638	1	1.74	Si
577	0.226	19.44	0	-20168	Ger.	6938	13004	92400	43471	43471	1	6.27	Si
577	0.226	19.44	0	-30794	SLV 13	-30794	-13004	-92400	-43471	-43471	1	1.41	Si
592	0	21.44	0	-20260	Ger.	6679	13435	92400	0	13435	1	2.01	Si
592	0	21.44	0	-30886	SLV 13	-30886	-13435	-92400	0	-13435	1	0.43	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	14.33	0	8985	SLD 3	8985	11749	92470	0	11749	1	1.31	Si
15	0.226	14.33	0	8893	SLD 3	8893	11749	92470	43504	43504	1	4.89	Si
296	0.123	12.44	0	175	SLD 3	175	11213	92531	23638	23638	1	134.74	Si
296	0.123	12.44	0	-4599	SLD 13	-4599	-11213	-92531	-23638	-23638	1	5.14	Si
577	0.226	19.44	0	-28464	SLD 13	-28464	-13004	-92400	-43471	-43471	1	1.53	Si
592	0	21.44	0	-28556	SLD 13	-28556	-13435	-92400	0	-13435	1	0.47	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-879084	5	-805537	25.3	199.2	373.2	3600	-852177	2	-781911	24.5	149.4			Si
15	-736211	5	-736211	23.1	199.2	341.1	3600	-715708	2	-715708	22.5	149.4			Si
296	1291567	4	1291567	57.1	199.2	2112.3	3600	1232667	2	1232667	54.5	149.4			Si
577	-2306082	4	-2306082	86.7	199.2	2129.9	3600	-2218913	2	-2218913	83.5	149.4			Si
592	-2707842	4	-2501652	94.1	199.2	2310.6	3600	-2611520	2	-2410020	90.6	149.4			Si

Verifica di apertura delle fessure

x	Bordo	Rara				Frequente				Quasi permanente				Verifica
		Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	
296	inferiore	28	0.00062	0.0173	4	28	0.00064	0.018	4	28	0.00063	0.0177	2	Si
577	superiore	23.1	0.00069	0.0159	4	23.1	0.00078	0.0179	4	23.1	0.00077	0.0176	2	Si
592	superiore	23.1	0.00078	0.0179	4	23.1	0.00086	0.0199	4	23.1	0.00085	0.0196	2	Si

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.009	0.008	0.009	0.007	0.009	0.008	0.008	0.007	0.009	0.008	0.024	2	0.02	2	9999	Si
276	0.153	0.135	0.152	0.115	0.147	0.135	0.14	0.116	0.146	0.135	0.402	2	0.342	2	1472	Si
296	0.152	0.134	0.151	0.115	0.147	0.135	0.14	0.115	0.145	0.135	0.4	2	0.341	2	1478	Si
577	0.003	0.003	0	0	0.003	0.003	0	0	0.003	0.003	0.007	2	0.005	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
30	435.1	6.1	60	0.011	0.00227	0.01341	0	11213	92531	43533	43533	40797	43533	14102	766	SLV 13	Si
592	156.9	8.8	60	0.016	0.00119	0.01612	0	13004	92400	43471	43471	49996	49996	-30794	766	SLV 13	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	3757	-9866	-12384	8803	3757	14277	9564	9036
15	3582	-10041	-12384	8710	3582	14102	9564	8944
296	0	-13623	-12384	-6464	0	10520	9564	2040
577	-3582	-30794	-12384	-30794	-3582	6938	9564	-20168
592	-3841	-30886	-12384	-30886	-3841	6679	9564	-20260

Campata 2 tra i fili 22 - 26, sezione R 40x60, aste 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	22.62	5.4	12.44	5.4							-3348774	SLU 10	-3105853	-4453529	0.162	1.43	Si
15	22.62	5.4	12.44	5.4							-2863808	SLU 10	-2863808	-4453529	0.162	1.56	Si
296	8.29	5.5	18.6	5.3	1314477	SLU 10	1314477	3686334	0.156	2.8							Si
577	22.62	5.4	12.44	5.4							-2725111	SLU 9	-2725111	-4452263	0.162	1.63	Si
592	22.62	5.4	12.44	5.4							-3200921	SLU 9	-2962578	-4452263	0.162	1.5	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	22.62	5.4	12.44	5.4							-3334515	SLV 3	-3129669	-4453529	0.162	1.42	Si
15	22.62	5.4	12.44	5.4							-2925495	SLV 3	-2925495	-4453529	0.162	1.52	Si
296	8.29	5.5	18.6	5.3	979251	SLV 1	1011098	3686334	0.156	3.65							Si
577	22.62	5.4	12.44	5.4							-2854858	SLV 13	-2854858	-4452263	0.162	1.56	Si
592	22.62	5.4	12.44	5.4							-3258109	SLV 13	-3056147	-4452263	0.162	1.46	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	22.62	5.4	12.44	5.4							-2958040	SLD 3	-2763090	-4453529	0.162	1.61	Si
15	22.62	5.4	12.44	5.4							-2568812	SLD 3	-2568812	-4453529	0.162	1.73	Si
296	8.29	5.5	18.6	5.3	969889	SLD 1	973801	3686334	0.156	3.79							Si
577	22.62	5.4	12.44	5.4							-2483966	SLD 13	-2483966	-4452263	0.162	1.79	Si
592	22.62	5.4	12.44	5.4							-2867030	SLD 13	-2675161	-4452263	0.162	1.66	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	21.57	0	32390	SLU 10	32390	13461	92400	0	13461	1	0.42	Si
15	0.226	20.12	0	32273	SLU 10	32273	13154	92400	43471	43471	1	1.35	Si
296	0.113	12.44	0	-1682	SLU 9	-1682	-11217	-92588	-21681	-21681	1	12.89	Si
577	0.226	20.12	0	-31662	SLU 9	-31662	-13154	-92400	-43471	-43471	1	1.37	Si
592	0	21.57	0	-31779	SLU 9	-31779	-13461	-92400	0	-13461	1	0.42	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	21.57	0	27313	SLV 3	27313	13461	92400	0	13461	1	0.49	Si
0	0	21.57	0	21319	Ger.	-9992	-13461	-92400	0	-13461	1	1.35	Si
15	0.226	20.12	0	27223	SLV 3	27223	13154	92400	43471	43471	1	1.6	Si
15	0.226	20.12	0	21229	Ger.	-10082	-13154	-92400	-43471	-43471	1	4.31	Si
296	0.113	12.44	0	1391	Ger.	13618	11217	92588	21681	21681	1	1.59	Si
296	0.113	12.44	0	-3795	Ger.	-13618	-11217	-92588	-21681	-21681	1	1.59	Si
577	0.226	20.12	0	-20727	Ger.	10081	13154	92400	43471	43471	1	4.31	Si
577	0.226	20.12	0	-26839	SLV 13	-26839	-13154	-92400	-43471	-43471	1	1.62	Si
592	0	21.57	0	-20817	Ger.	9822	13461	92400	0	13461	1	1.37	Si
592	0	21.57	0	-26929	SLV 13	-26929	-13461	-92400	0	-13461	1	0.5	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	21.57	0	25994	SLD 3	25994	13461	92400	0	13461	1	0.52	Si
15	0.226	20.12	0	25904	SLD 3	25904	13154	92400	43471	43471	1	1.68	Si
296	0.113	12.44	0	250	SLD 3	250	11217	92588	21681	21681	1	86.84	Si
296	0.113	12.44	0	-2654	SLD 13	-2654	-11217	-92588	-21681	-21681	1	8.17	Si
577	0.226	20.12	0	-25493	SLD 13	-25493	-13154	-92400	-43471	-43471	1	1.71	Si
592	0	21.57	0	-25583	SLD 13	-25583	-13461	-92400	0	-13461	1	0.53	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-2548989	5	-2363370	88.9	199.2	2182.8	3600	-2478724	2	-2296353	86.4	149.4			Si
15	-2178426	5	-2178426	81.9	199.2	2012	3600	-2114656	2	-2114656	79.5	149.4			Si
296	996627	5	996627	32.6	199.2	446.1	3600	958445	2	958445	31.3	149.4			Si
577	-2073034	4	-2073034	78	199.2	1915	3600	-2012699	2	-2012699	75.7	149.4			Si
592	-2436655	4	-2254507	84.8	199.2	2082.6	3600	-2370117	2	-2191071	82.4	149.4			Si

Verifica di apertura delle fessure

x	Bordo	Rara				Frequente				Quasi permanente				Verifica
		Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	
0	superiore	23.1	0.00072	0.0165	5	23.1	0.00081	0.0186	4	23.1	0.0008	0.0185	2	Si
15	superiore	23.1	0.00063	0.0146	5	23.1	0.00073	0.0167	4	23.1	0.00072	0.0166	2	Si
577	superiore	23.1	0.00059	0.0135	4	23.1	0.00068	0.0157	4	23.1	0.00067	0.0155	2	Si
592	superiore	23.1	0.00067	0.0154	4	23.1	0.00076	0.0175	4	23.1	0.00075	0.0174	2	Si

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0	0	-0.003	-0.004	0	0	-0.003	-0.004	0	0	-0.005	1	-0.006	1	9999	Si
296	0.093	0.085	0.069	0.064	0.09	0.085	0.067	0.064	0.09	0.085	0.169	2	0.161	2	3501	Si
577	0	0	-0.002	-0.003	0	0	-0.002	-0.003	0	0	-0.004	1	-0.004	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
622	166.5	8.8	60	0.016	0.00095	0.01629	0	13154	92400	43471	43471	49880	49880	27223	-3161	SLV 3	Si
1184	165	8.9	60	0.016	0.00094	0.01603	0	13154	92400	43471	43471	49275	49275	-26839	2774	SLV 13	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	3626	-9992	-12380	21319	3626	27313	12380	27313
15	3536	-10082	-12380	21229	3536	27223	12380	27223
296	0	-13618	-12380	-3795	0	13618	12380	1391
577	-3537	-26839	-12380	-26839	-3537	10081	12380	-20727
592	-3796	-26929	-12380	-26929	-3796	9822	12380	-20817

Campata 3 tra i fili 26 - 30, sezione R 40x60, aste 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	22.62	5.4	12.44	5.4							-3129557	SLU 9	-2877710	-4452263	0.162	1.55	Si
15	22.62	5.4	12.44	5.4							-2638886	SLU 9	-2638886	-4452263	0.162	1.69	Si
296	14.33	5.4	12.44	5.4	1479868	SLU 9	1479868	2505294	0.112	1.69							Si
577	14.33	5.4	12.44	5.4							-1430461	SLU 10	-1430461	-2868985	0.121	2.01	Si
592	14.33	5.4	12.44	5.4							-1572625	SLU 10	-1499337	-2868985	0.121	1.91	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	22.62	5.4	12.44	5.4							-3467340	SLV 3	-3238626	-4452263	0.162	1.37	Si
15	22.62	5.4	12.44	5.4							-3021617	SLV 3	-3021617	-4452263	0.162	1.47	Si
296	14.33	5.4	12.44	5.4	1361606	SLV 3	1414854	2505294	0.112	1.77							Si
577	14.33	5.4	12.44	5.4	147002	SLV 3	336852	2505294	0.112	7.44	-2138504	SLV 13	-2138504	-2868985	0.121	1.34	Si
592	14.33	5.4	12.44	5.4	29635	SLV 3	29635	2505294	0.112	84.54	-2238266	SLV 13	-2186792	-2868985	0.121	1.31	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	22.62	5.4	12.44	5.4							-2973779	SLD 3	-2761928	-4452263	0.162	1.61	Si
15	22.62	5.4	12.44	5.4							-2560969	SLD 3	-2560969	-4452263	0.162	1.74	Si
296	14.33	5.4	12.44	5.4	1246697	SLD 3	1256597	2505294	0.112	1.99							Si
577	14.33	5.4	12.44	5.4							-1638469	SLD 13	-1638469	-2868985	0.121	1.75	Si
592	14.33	5.4	12.44	5.4							-1742079	SLD 13	-1688641	-2868985	0.121	1.7	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	21.44	0	31963	SLU 9	31963	13435	92400	0	13435	1	0.42	Si
15	0.226	19.46	0	31843	SLU 9	31843	13008	92400	43471	43471	1	1.37	Si
296	0.113	12.44	0	-2570	SLU 10	-2570	-11211	-92489	-21658	-21658	1	8.43	Si
577	0.226	14.33	0	-9183	SLU 10	-9183	-11749	-92470	-43504	-43504	1	4.74	Si
592	0	14.33	0	-9303	SLU 10	-9303	-11749	-92470	0	-11749	1	1.26	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	21.44	0	29027	SLV 3	29027	13435	92400	0	13435	1	0.46	Si
0	0	21.44	0	19242	Ger.	-6847	-13435	-92400	0	-13435	1	1.96	Si
15	0.226	19.46	0	28935	SLV 3	28935	13008	92400	43471	43471	1	1.5	Si
15	0.226	19.46	0	19150	Ger.	-6937	-13008	-92400	-43471	-43471	1	6.27	Si
296	0.113	12.44	0	2195	Ger.	13618	11211	92489	21658	21658	1	1.59	Si
296	0.113	12.44	0	-5656	Ger.	-10517	-11211	-92489	-21658	-21658	1	2.06	Si
577	0.226	14.33	0	-6417	Ger.	10037	11749	92470	43504	43504	1	4.33	Si
577	0.226	12.44	0	-7609	Ger.	-14097	-11211	-92489	-43513	-43513	1	3.09	Si
592	0	14.33	0	-6509	Ger.	9842	11749	92470	0	11749	1	1.19	Si
592	0	12.44	0	-7701	Ger.	-14293	-11211	-92489	0	-11211	1	0.78	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	21.44	0	26887	SLD 3	26887	13435	92400	0	13435	1	0.5	Si
15	0.226	19.46	0	26795	SLD 3	26795	13008	92400	43471	43471	1	1.62	Si
296	0.113	12.44	0	477	SLD 3	477	11211	92489	21658	21658	1	45.39	Si
296	0.113	12.44	0	-3939	SLD 13	-3939	-11211	-92489	-21658	-21658	1	5.5	Si
577	0.226	14.33	0	-7348	SLD 1	-7348	-11749	-92470	-43504	-43504	1	5.92	Si
592	0	14.33	0	-7440	SLD 1	-7440	-11749	-92470	0	-11749	1	1.58	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-2388443	4	-2195705	82.6	199.2	2028.3	3600	-2339280	2	-2149117	80.9	149.4			Si
15	-2012937	4	-2012937	75.7	199.2	1859.5	3600	-1968801	2	-1968801	74.1	149.4			Si
296	1127424	4	1127424	49.9	199.2	1845.9	3600	1098992	2	1098992	48.7	149.4			Si
577	-1071757	5	-1071757	46.5	199.2	1530.5	3600	-995751	2	-995751	43.2	149.4			Si
592	-1180894	5	-1124632	48.8	199.2	1606	3600	-1104316	2	-1048346	45.5	149.4			Si

Verifica di apertura delle fessure

x	Bordo	Rara				Frequente				Quasi permanente				Verifica
		Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	
0	superiore	23.1	0.00064	0.0148	4	23.1	0.00074	0.0171	4	23.1	0.00073	0.0169	2	Si
15	superiore	23.1	0.00056	0.0129	4	23.1	0.00066	0.0152	4	23.1	0.00065	0.0151	2	Si
296	inferiore	28.1	0.00054	0.0151	4	28.1	0.00053	0.0149	4	28.1	0.00052	0.0147	2	Si
577	superiore	27.2	0.00045	0.0121	5	27.2	0.00042	0.0115	4	27.2	0.00041	0.0113	2	Si
592	superiore	27.2	0.00047	0.0127	5	27.2	0.00044	0.0121	4	27.2	0.00044	0.0119	2	Si

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.003	0.003	0	0	0.003	0.003	0	0	0.003	0.003	0.004	1	0.004	1	9999	Si
296	0.123	0.119	0.103	0.094	0.122	0.119	0.1	0.094	0.121	0.119	0.287	2	0.276	2	2061	Si
577	0.005	0.004	0.004	0.003	0.005	0.004	0.004	0.004	0.005	0.004	0.012	1	0.011	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
1214	151.6	8.9	60	0.016	0.00103	0.01613	0	13008	92400	43471	43471	50360	50360	28935	-2395	SLV 3	Si
1776	441	6.1	60	0.011	0.00189	0.0134	0	11211	92489	43513	43513	40895	43513	-14097	-2181	SLV 1	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	3670	-6847	-9561	19242	3670	29027	12380	29027
15	3580	-6937	-9561	19150	3580	28935	12380	28935
296	0	-10517	-9561	-5656	0	13618	12380	2195
577	-3581	-14097	-9561	-7609	-3581	10037	12380	-6417
592	-3776	-14293	-9561	-7701	-3776	9842	12380	-6509

Momenti resistenti a filo appoggi

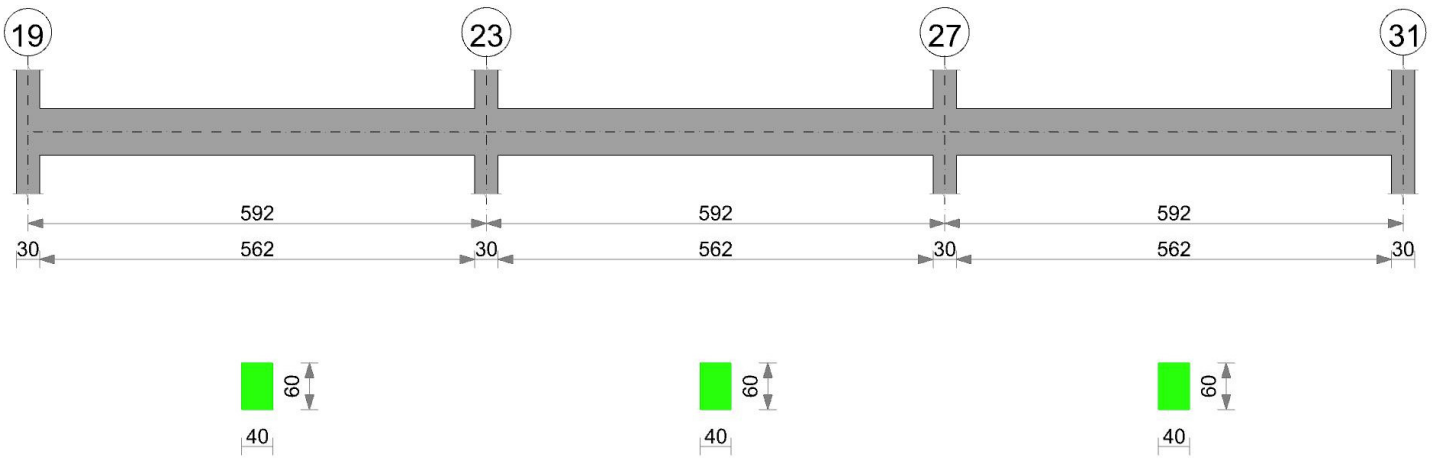
campata	x	appoggio	momento positivo	momento negativo
1	15	18	2506498	-2869418
1	577	22	2505340	-4453529
2	15	22	2505340	-4453529
2	577	26	2504135	-4452263
3	15	26	2504135	-4452263
3	577	30	2505294	-2868985

Controllo diametro delle barre longitudinali nei nodi

Nessun nodo è da verificare

Trave a "Piano 1" 19-31

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Elenco delle sezioni

N°	Descrizione	Tipo	Base	Altezza	Copriferro sup.	Copriferro inf.	Copriferro lat.
1	R 40x60	Rettangolare	40	60	3.5	3.5	3.5

Diagramma verifica stato limite ultimo flessione

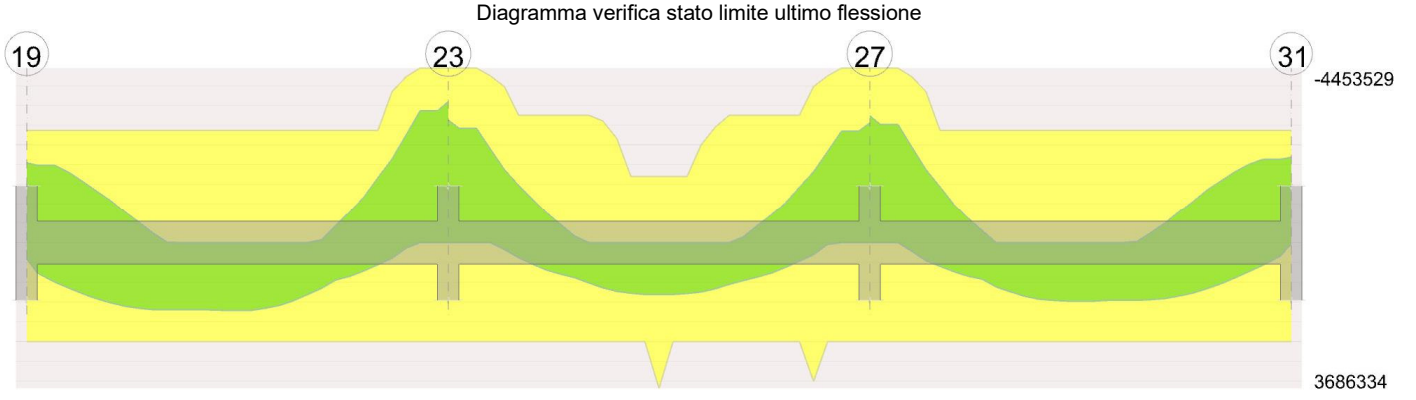


Diagramma verifica stato limite ultimo taglio

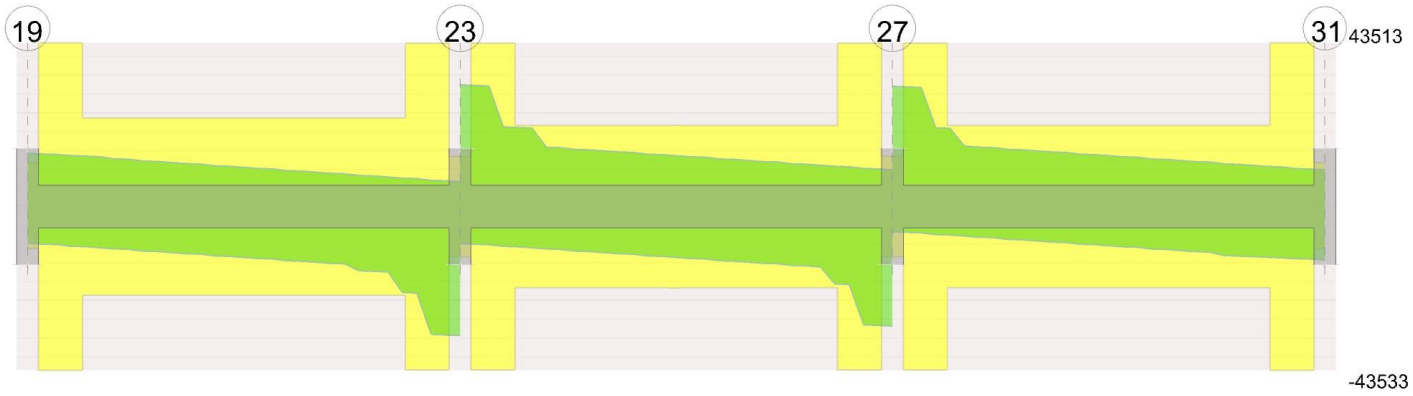
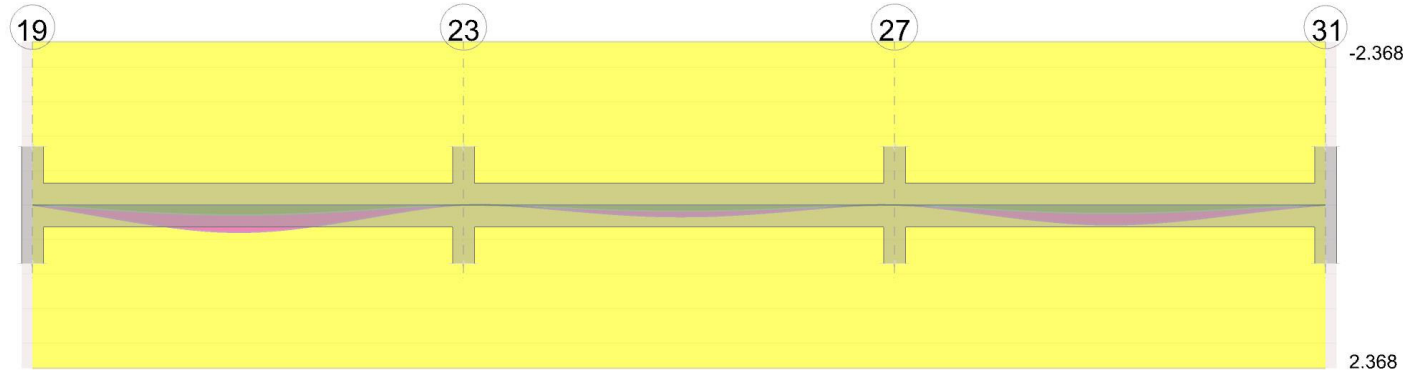


Diagramma verifica stato limite esercizio quasi permanente freccia



Output campate

Campata 1 tra i fili 19 - 23, sezione R 40x60, aste 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	14.33	5.4	12.44	5.4							-1155590	SLU 10	-1058340	-2869418	0.12	2.71	Si
15	14.33	5.4	12.44	5.4							-966658	SLU 10	-966658	-2869418	0.12	2.97	Si
296	14.33	5.4	12.44	5.4	1713956	SLU 9	1713956	2506498	0.112	1.46							Si
577	22.62	5.4	12.44	5.4							-3041761	SLU 9	-3041761	-4453529	0.162	1.46	Si
592	22.62	5.4	12.44	5.4							-3569066	SLU 9	-3298449	-4453529	0.162	1.35	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	14.33	5.4	12.44	5.4	414418	SLV 15	414418	2506498	0.112	6.05	-2118402	SLV 1	-2047391	-2869418	0.12	1.4	Si
15	14.33	5.4	12.44	5.4	549342	SLV 15	767852	2506498	0.112	3.26	-1980453	SLV 1	-1980453	-2869418	0.12	1.45	Si
296	14.33	5.4	12.44	5.4	1500912	SLV 15	1589711	2506498	0.112	1.58							Si
577	22.62	5.4	12.44	5.4							-3367367	SLV 15	-3367367	-4453529	0.162	1.32	Si
592	22.62	5.4	12.44	5.4							-3842040	SLV 15	-3598494	-4453529	0.162	1.24	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	14.33	5.4	12.44	5.4							-1562814	SLD 1	-1492132	-2869418	0.12	1.92	Si
15	14.33	5.4	12.44	5.4	-5591	SLD 15	214084	2506498	0.112	11.71	-1425520	SLD 1	-1425520	-2869418	0.12	2.01	Si
296	14.33	5.4	12.44	5.4	1384601	SLD 15	1426862	2506498	0.112	1.76							Si
577	22.62	5.4	12.44	5.4							-2863905	SLD 15	-2863905	-4453529	0.162	1.56	Si
592	22.62	5.4	12.44	5.4							-3302706	SLD 15	-3077538	-4453529	0.162	1.45	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	14.33	0	12345	SLU 9	12345	11749	92470	0	11749	1	0.95	Si
15	0.226	14.33	0	12225	SLU 9	12225	11749	92470	43504	43504	1	3.56	Si
296	0.123	12.44	0	883	SLU 7	883	11213	92531	23638	23638	1	26.78	Si
577	0.226	19.44	0	-34225	SLU 9	-34225	-13004	-92400	-43471	-43471	1	1.27	Si
592	0	21.44	0	-34345	SLU 9	-34345	-13435	-92400	0	-13435	1	0.39	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	14.33	0	9017	Ger.	14278	11749	92470	0	11749	1	0.82	Si
0	0	12.44	0	8817	Ger.	-9865	-11213	-92531	0	-11213	1	1.14	Si
15	0.226	14.33	0	8925	Ger.	14103	11749	92470	43504	43504	1	3.08	Si
15	0.226	12.44	0	8725	Ger.	-10040	-11213	-92531	-43533	-43533	1	4.34	Si
296	0.123	12.44	0	4806	Ger.	10520	11213	92531	23638	23638	1	2.25	Si
296	0.123	12.44	0	-3604	Ger.	-13623	-11213	-92531	-23638	-23638	1	1.74	Si
577	0.226	19.44	0	-20179	Ger.	6936	13004	92400	43471	43471	1	6.27	Si
577	0.226	19.44	0	-30817	SLV 15	-30817	-13004	-92400	-43471	-43471	1	1.41	Si
592	0	21.44	0	-20272	Ger.	6678	13435	92400	0	13435	1	2.01	Si
592	0	21.44	0	-30909	SLV 15	-30909	-13435	-92400	0	-13435	1	0.43	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	14.33	0	8974	SLD 1	8974	11749	92470	0	11749	1	1.31	Si
15	0.226	14.33	0	8882	SLD 1	8882	11749	92470	43504	43504	1	4.9	Si
296	0.123	12.44	0	2962	SLD 1	2962	11213	92531	23638	23638	1	7.98	Si
296	0.123	12.44	0	-1760	SLD 15	-1760	-11213	-92531	-23638	-23638	1	13.43	Si

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
577	0.226	19.44	0	-28484	SLD 15	-28484	-13004	-92400	-43471	-43471	1	1.53	Si
592	0	21.44	0	-28577	SLD 15	-28577	-13435	-92400	0	-13435	1	0.47	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-879019	5	-805478	25.3	199.2	373.2	3600	-851992	2	-781742	24.5	149.4			Si
15	-736159	5	-736159	23.1	199.2	341	3600	-715555	2	-715555	22.5	149.4			Si
296	1295577	4	1295577	57.3	199.2	2118.9	3600	1236166	2	1236166	54.7	149.4			Si
577	-2306260	4	-2306260	86.7	199.2	2130.1	3600	-2219014	2	-2219014	83.5	149.4			Si
592	-2708338	4	-2501985	94.1	199.2	2310.9	3600	-2611885	2	-2410250	90.7	149.4			Si

Verifica di apertura delle fessure

x	Bordo	Rara				Frequente				Quasi permanente				Verifica
		Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	
296	inferiore	28	0.00062	0.0173	4	28	0.00064	0.0181	4	28	0.00063	0.0177	2	Si
577	superiore	23.1	0.00069	0.0159	4	23.1	0.00078	0.0179	4	23.1	0.00077	0.0177	2	Si
592	superiore	23.1	0.00078	0.0179	4	23.1	0.00086	0.0199	4	23.1	0.00085	0.0196	2	Si

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente						Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.009	0.008	0.009	0.007	0.009	0.008	0.008	0.007	0.009	0.008	0.023	2	0.02	2	9999	Si
276	0.153	0.135	0.152	0.116	0.147	0.135	0.14	0.116	0.146	0.135	0.395	2	0.343	2	1499	Si
296	0.152	0.134	0.151	0.115	0.147	0.135	0.14	0.116	0.145	0.135	0.394	2	0.342	2	1503	Si
577	0.003	0.003	0	0	0.003	0.003	0	0	0.003	0.003	0.007	2	0.005	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
30	435.5	6.1	60	0.011	0.00222	0.01341	0	11213	92531	43533	43533	40797	43533	14103	807	SLV 13	Si
592	156.9	8.8	60	0.016	0.00119	0.01612	0	13004	92400	43471	43471	49996	49996	-30817	761	SLV 15	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	3758	-9865	-12384	8817	3758	14278	9564	9017
15	3583	-10040	-12384	8725	3583	14103	9564	8925
296	0	-13623	-12384	-3604	0	10520	9564	4806
577	-3584	-30817	-12384	-30817	-3584	6936	9564	-20179
592	-3842	-30909	-12384	-30909	-3842	6678	9564	-20272

Campata 2 tra i fili 23 - 27, sezione R 40x60, aste 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	22.62	5.4	12.44	5.4							-3349709	SLU 10	-3106594	-4453529	0.162	1.43	Si
15	22.62	5.4	12.44	5.4							-2864356	SLU 10	-2864356	-4453529	0.162	1.55	Si
296	8.29	5.5	18.6	5.3	1312809	SLU 10	1312809	3686334	0.156	2.81							Si
577	22.62	5.4	12.44	5.4							-2725527	SLU 9	-2725527	-4452263	0.162	1.63	Si
592	22.62	5.4	12.44	5.4							-3201738	SLU 9	-2963195	-4452263	0.162	1.5	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	22.62	5.4	12.44	5.4							-3335436	SLV 1	-3130436	-4453529	0.162	1.42	Si
15	22.62	5.4	12.44	5.4							-2926107	SLV 1	-2926107	-4453529	0.162	1.52	Si
296	8.29	5.5	18.6	5.3	966537	SLV 3	1010710	3686334	0.156	3.65							Si
577	22.62	5.4	12.44	5.4							-2855476	SLV 15	-2855476	-4452263	0.162	1.56	Si
592	22.62	5.4	12.44	5.4							-3259052	SLV 15	-3056928	-4452263	0.162	1.46	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	22.62	5.4	12.44	5.4							-2958794	SLD 1	-2763706	-4453529	0.162	1.61	Si
15	22.62	5.4	12.44	5.4							-2569290	SLD 1	-2569290	-4453529	0.162	1.73	Si
296	8.29	5.5	18.6	5.3	962253	SLD 3	973401	3686334	0.156	3.79							Si
577	22.62	5.4	12.44	5.4							-2484400	SLD 15	-2484400	-4452263	0.162	1.79	Si
592	22.62	5.4	12.44	5.4							-2867754	SLD 15	-2675740	-4452263	0.162	1.66	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	21.57	0	32415	SLU 10	32415	13461	92400	0	13461	1	0.42	Si
15	0.226	20.12	0	32298	SLU 10	32298	13154	92400	43471	43471	1	1.35	Si
296	0.113	12.44	0	2119	SLU 10	2119	11217	92588	21681	21681	1	10.23	Si
577	0.226	20.12	0	-31689	SLU 9	-31689	-13154	-92400	-43471	-43471	1	1.37	Si
592	0	21.57	0	-31806	SLU 9	-31806	-13461	-92400	0	-13461	1	0.42	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	21.57	0	27334	SLV 1	27334	13461	92400	0	13461	1	0.49	Si
0	0	21.57	0	21330	Ger.	-9989	-13461	-92400	0	-13461	1	1.35	Si
15	0.226	20.12	0	27244	SLV 1	27244	13154	92400	43471	43471	1	1.6	Si
15	0.226	20.12	0	21240	Ger.	-10079	-13154	-92400	-43471	-43471	1	4.31	Si
296	0.113	12.44	0	4113	Ger.	13618	11217	92588	21681	21681	1	1.59	Si
296	0.113	12.44	0	-1075	Ger.	-13619	-11217	-92588	-21681	-21681	1	1.59	Si
577	0.226	20.12	0	-20738	Ger.	10080	13154	92400	43471	43471	1	4.31	Si
577	0.226	20.12	0	-26860	SLV 15	-26860	-13154	-92400	-43471	-43471	1	1.62	Si
592	0	21.57	0	-20828	Ger.	9822	13461	92400	0	13461	1	1.37	Si
592	0	21.57	0	-26950	SLV 15	-26950	-13461	-92400	0	-13461	1	0.5	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	21.57	0	26012	SLD 1	26012	13461	92400	0	13461	1	0.52	Si
15	0.226	20.12	0	25922	SLD 1	25922	13154	92400	43471	43471	1	1.68	Si
296	0.113	12.44	0	2971	SLD 1	2971	11217	92588	21681	21681	1	7.3	Si
577	0.226	20.12	0	-25512	SLD 15	-25512	-13154	-92400	-43471	-43471	1	1.7	Si
592	0	21.57	0	-25602	SLD 15	-25602	-13461	-92400	0	-13461	1	0.53	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-2549658	5	-2363900	88.9	199.2	2183.3	3600	-2479263	2	-2296775	86.4	149.4			Si
15	-2178816	5	-2178816	82	199.2	2012.4	3600	-2114961	2	-2114961	79.6	149.4			Si
296	995372	5	995372	32.5	199.2	445.6	3600	957269	2	957269	31.3	149.4			Si
577	-2073320	4	-2073320	78	199.2	1915.2	3600	-2012897	2	-2012897	75.7	149.4			Si
592	-2437233	4	-2254939	84.9	199.2	2083	3600	-2370562	2	-2191393	82.5	149.4			Si

Verifica di apertura delle fessure

x	Bordo	Rara				Frequente				Quasi permanente				Verifica
		Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	
0	superiore	23.1	0.00072	0.0165	5	23.1	0.00081	0.0186	4	23.1	0.0008	0.0185	2	Si
15	superiore	23.1	0.00063	0.0146	5	23.1	0.00073	0.0167	4	23.1	0.00072	0.0166	2	Si
577	superiore	23.1	0.00059	0.0135	4	23.1	0.00068	0.0157	4	23.1	0.00067	0.0155	2	Si
592	superiore	23.1	0.00067	0.0154	4	23.1	0.00076	0.0175	4	23.1	0.00075	0.0174	2	Si

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente						Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0	0	-0.003	-0.004	0	0	-0.003	-0.004	0	0	-0.005	1	-0.006	1	9999	Si
296	0.093	0.085	0.069	0.064	0.09	0.085	0.067	0.064	0.09	0.085	0.169	2	0.16	2	3504	Si
577	0	0	-0.002	-0.003	0	0	-0.002	-0.003	0	0	-0.004	1	-0.004	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
622	166.6	8.8	60	0.016	0.00095	0.01629	0	13154	92400	43471	43471	49881	49881	27244	-3185	SLV 1	Si
1184	165	8.9	60	0.016	0.00094	0.01603	0	13154	92400	43471	43471	49274	49274	-26860	2766	SLV 15	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	3629	-9989	-12380	21330	3629	27334	12380	27334
15	3539	-10079	-12380	21240	3539	27244	12380	27244
296	-1	-13619	-12380	-1075	-1	13618	12380	4113
577	-3539	-26860	-12380	-26860	-3539	10080	12380	-20738
592	-3796	-26950	-12380	-26950	-3796	9822	12380	-20828

Campata 3 tra i fili 27 - 31, sezione R 40x60, aste 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	22.62	5.4	12.44	5.4							-3130836	SLU 9	-2878675	-4452263	0.162	1.55	Si
15	22.62	5.4	12.44	5.4							-2639496	SLU 9	-2639496	-4452263	0.162	1.69	Si
296	14.33	5.4	12.44	5.4	1479447	SLU 9	1479447	2505294	0.112	1.69							Si
577	14.33	5.4	12.44	5.4							-1429827	SLU 10	-1429827	-2868985	0.121	2.01	Si
592	14.33	5.4	12.44	5.4							-1572496	SLU 10	-1498958	-2868985	0.121	1.91	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	22.62	5.4	12.44	5.4							-3467969	SLV 1	-3239099	-4452263	0.162	1.37	Si
15	22.62	5.4	12.44	5.4							-3021890	SLV 1	-3021890	-4452263	0.162	1.47	Si
296	14.33	5.4	12.44	5.4	1360898	SLV 1	1414507	2505294	0.112	1.77							Si
577	14.33	5.4	12.44	5.4	147917	SLV 1	337698	2505294	0.112	7.42	-2138384	SLV 15	-2138384	-2868985	0.121	1.34	Si
592	14.33	5.4	12.44	5.4	30592	SLV 1	30592	2505294	0.112	81.89	-2238801	SLV 15	-2186997	-2868985	0.121	1.31	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	22.62	5.4	12.44	5.4							-2974486	SLD 1	-2762453	-4452263	0.162	1.61	Si
15	22.62	5.4	12.44	5.4							-2561272	SLD 1	-2561272	-4452263	0.162	1.74	Si
296	14.33	5.4	12.44	5.4	1246172	SLD 1	1256384	2505294	0.112	1.99							Si
577	14.33	5.4	12.44	5.4							-1638176	SLD 15	-1638176	-2868985	0.121	1.75	Si
592	14.33	5.4	12.44	5.4							-1742288	SLD 15	-1688598	-2868985	0.121	1.7	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	21.44	0	32011	SLU 9	32011	13435	92400	0	13435	1	0.42	Si
15	0.226	19.46	0	31891	SLU 9	31891	13008	92400	43471	43471	1	1.36	Si
296	0.113	12.44	0	-2554	SLU 10	-2554	-11211	-92489	-21658	-21658	1	8.48	Si
577	0.226	14.33	0	-9217	SLU 10	-9217	-11749	-92470	-43504	-43504	1	4.72	Si
592	0	14.33	0	-9337	SLU 10	-9337	-11749	-92470	0	-11749	1	1.26	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	21.44	0	29054	SLV 1	29054	13435	92400	0	13435	1	0.46	Si
0	0	21.44	0	19282	Ger.	-6854	-13435	-92400	0	-13435	1	1.96	Si
15	0.226	19.46	0	28961	SLV 1	28961	13008	92400	43471	43471	1	1.5	Si
15	0.226	19.46	0	19190	Ger.	-6944	-13008	-92400	-43471	-43471	1	6.26	Si
296	0.113	12.44	0	2209	Ger.	13618	11211	92489	21658	21658	1	1.59	Si
296	0.113	12.44	0	-5652	Ger.	-10517	-11211	-92489	-21658	-21658	1	2.06	Si
577	0.226	14.33	0	-6460	Ger.	10044	11749	92470	43504	43504	1	4.33	Si
577	0.226	12.44	0	-7607	Ger.	-14091	-11211	-92489	-43513	-43513	1	3.09	Si
592	0	14.33	0	-6552	Ger.	9849	11749	92470	0	11749	1	1.19	Si
592	0	12.44	0	-7700	Ger.	-14286	-11211	-92489	0	-11211	1	0.78	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	21.44	0	26916	SLD 1	26916	13435	92400	0	13435	1	0.5	Si
15	0.226	19.46	0	26824	SLD 1	26824	13008	92400	43471	43471	1	1.62	Si
296	0.113	12.44	0	490	SLD 1	490	11211	92489	21658	21658	1	44.24	Si
296	0.113	12.44	0	-3932	SLD 15	-3932	-11211	-92489	-21658	-21658	1	5.51	Si
577	0.226	14.33	0	-7356	SLD 3	-7356	-11749	-92470	-43504	-43504	1	5.91	Si
592	0	14.33	0	-7449	SLD 3	-7449	-11749	-92470	0	-11749	1	1.58	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-2389377	4	-2196405	82.6	199.2	2028.9	3600	-2340086	2	-2149707	80.9	149.4			Si
15	-2013370	4	-2013370	75.8	199.2	1859.9	3600	-1969141	2	-1969141	74.1	149.4			Si
296	1127110	4	1127110	49.9	199.2	1845.4	3600	1098701	2	1098701	48.6	149.4			Si
577	-1071261	5	-1071261	46.5	199.2	1529.8	3600	-995233	2	-995233	43.2	149.4			Si
592	-1180764	5	-1124321	48.8	199.2	1605.6	3600	-1104105	2	-1047985	45.5	149.4			Si

Verifica di apertura delle fessure

x	Bordo	Rara				Frequente				Quasi permanente				Verifica
		Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	Dmax	Esm	Wd	Comb	
0	superiore	23.1	0.00064	0.0148	4	23.1	0.00074	0.0171	4	23.1	0.00073	0.0169	2	Si
15	superiore	23.1	0.00056	0.0129	4	23.1	0.00066	0.0152	4	23.1	0.00065	0.0151	2	Si
296	inferiore	28.1	0.00054	0.0151	4	28.1	0.00053	0.0149	4	28.1	0.00052	0.0147	2	Si
577	superiore	27.2	0.00045	0.0121	5	27.2	0.00042	0.0115	4	27.2	0.00041	0.0113	2	Si
592	superiore	27.2	0.00047	0.0127	5	27.2	0.00044	0.0121	4	27.2	0.00044	0.0119	2	Si

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente						Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.003	0.003	0	0	0.003	0.003	0	0	0.003	0.003	0.004	1	0.004	1	9999	Si
296	0.123	0.119	0.103	0.094	0.122	0.119	0.1	0.094	0.121	0.119	0.287	2	0.276	2	2064	Si
577	0.005	0.004	0.004	0.003	0.005	0.004	0.004	0.004	0.005	0.004	0.012	1	0.011	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
1214	151.6	8.9	60	0.016	0.00103	0.01613	0	13008	92400	43471	43471	50362	50362	28961	-2418	SLV 1	Si
1776	440.4	6.1	60	0.011	0.00193	0.0134	0	11211	92489	43513	43513	40907	43513	-14091	-2418	SLV 1	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	3663	-6854	-9561	19282	3663	29054	12380	29054
15	3573	-6944	-9561	19190	3573	28961	12380	28961
296	0	-10517	-9561	-5652	0	13618	12380	2209
577	-3574	-14091	-9561	-7607	-3574	10044	12380	-6460
592	-3769	-14286	-9561	-7700	-3769	9849	12380	-6552

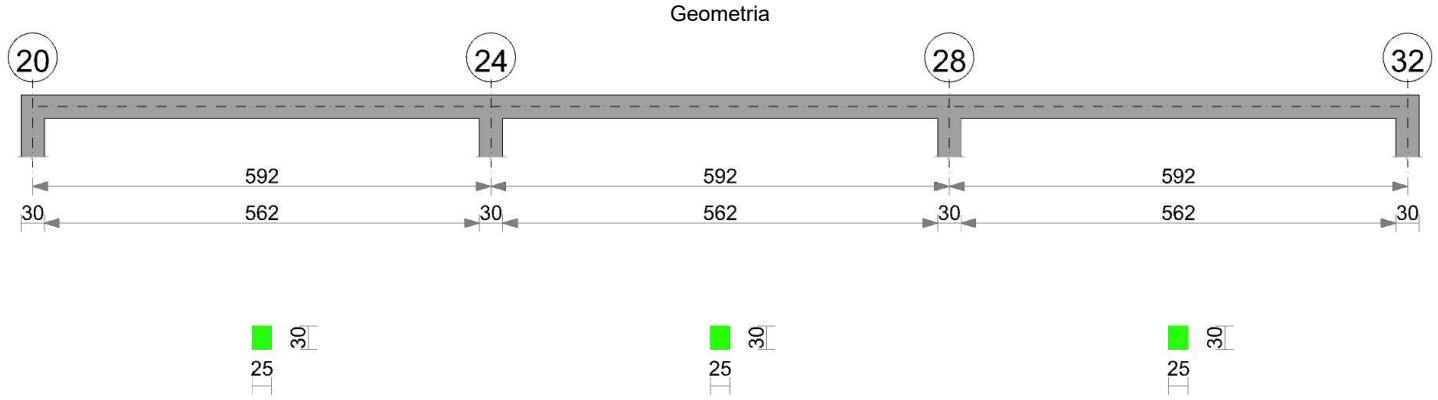
Momenti resistenti a filo appoggi

campata	x	appoggio	momento positivo	momento negativo
1	15	19	2506498	-2869418
1	577	23	2505340	-4453529
2	15	23	2505340	-4453529
2	577	27	2504135	-4452263
3	15	27	2504135	-4452263
3	577	31	2505294	-2868985

Controllo diametro delle barre longitudinali nei nodi

Nessun nodo è da verificare

Trave a "Piano 1" 20-32



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Elenco delle sezioni

N°	Descrizione	Tipo	Base	Altezza	Copriferro sup.	Copriferro inf.	Copriferro lat.
1	R 25x30	Rettangolare	25	30	3.5	3.5	3.5

Diagramma verifica stato limite ultimo flessione

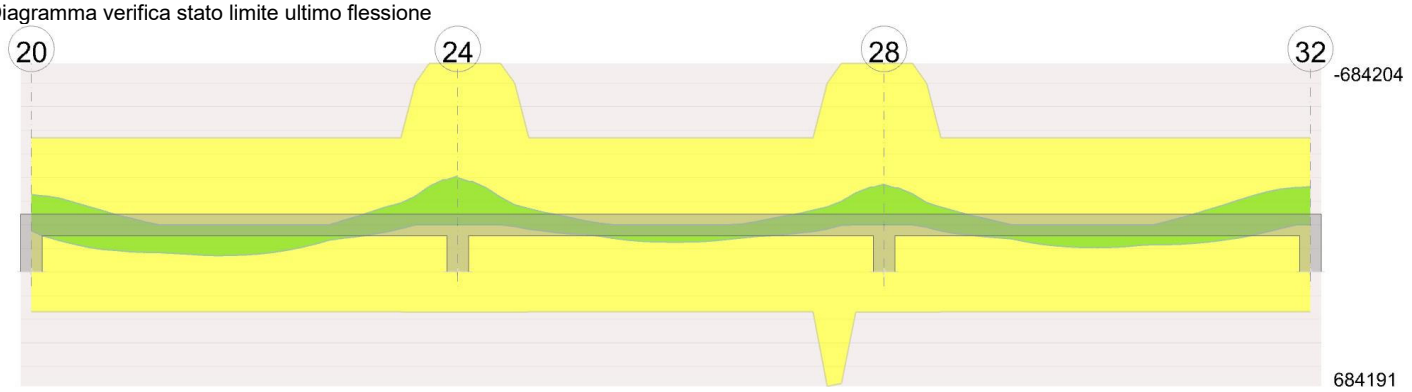


Diagramma verifica stato limite ultimo taglio

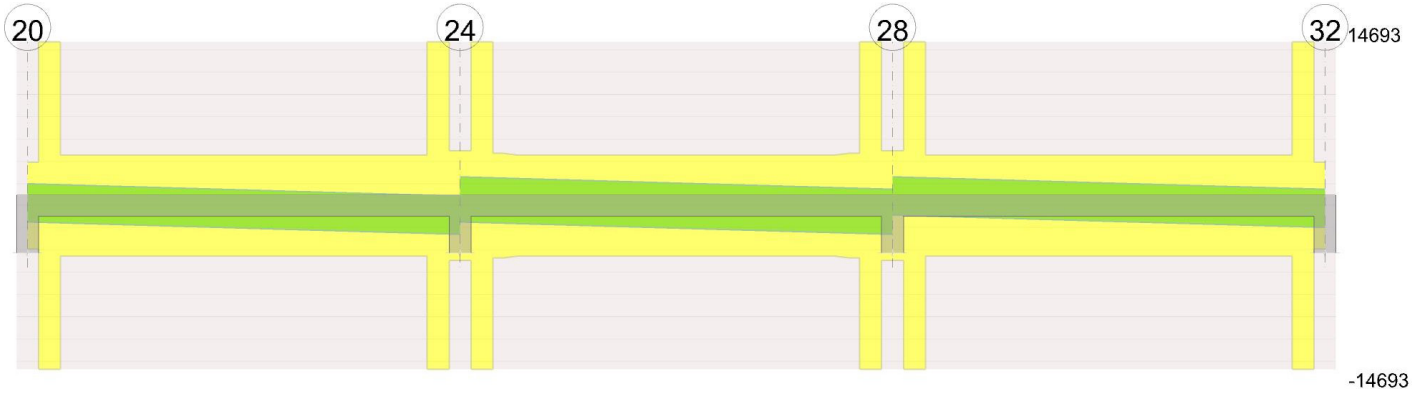
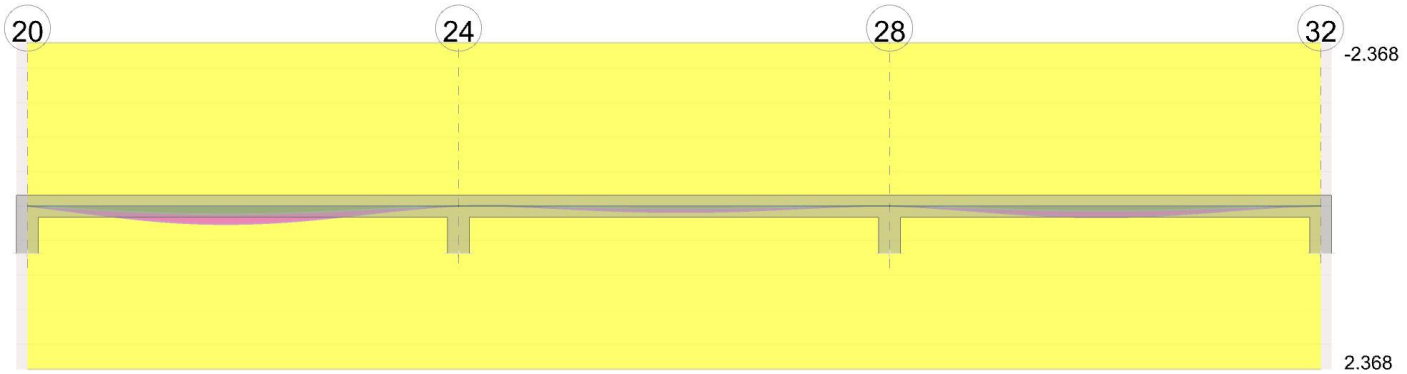


Diagramma verifica stato limite esercizio quasi permanente freccia



Output campate

Campata 1 tra i fili 20 - 24, sezione R 25x30, aste 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	4.02	5.1	4.02	5.1							-98478	SLU 10	-88078	-368751	0.191	4.19	Si
15	4.02	5.1	4.02	5.1							-78454	SLU 10	-78454	-368751	0.191	4.7	Si
257	4.02	5.1	4.02	5.1	130276	SLU 9	130276	368751	0.191	2.83							Si
296	4.02	5.1	4.02	5.1	126184	SLU 9	127363	368751	0.191	2.9							Si
577	8.04	5.1	4.02	5.1							-191237	SLU 9	-191237	-684204	0.265	3.58	Si
592	8.04	5.1	4.02	5.1							-223601	SLU 9	-206879	-684204	0.265	3.31	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	4.02	5.1	4.02	5.1	25144	SLV 15	25144	368751	0.191	14.67	-134067	SLV 1	-127922	-368751	0.191	2.88	Si
15	4.02	5.1	4.02	5.1	37287	SLV 15	45915	368751	0.191	8.03	-122284	SLV 1	-122284	-368751	0.191	3.02	Si
296	4.02	5.1	4.02	5.1	88161	SLV 15	92994	368751	0.191	3.97							Si
577	8.04	5.1	4.02	5.1							-147039	SLV 13	-147039	-684204	0.265	4.65	Si
592	8.04	5.1	4.02	5.1							-161525	SLV 13	-154082	-684204	0.265	4.44	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	4.02	5.1	4.02	5.1							-99141	SLD 1	-92956	-368751	0.191	3.97	Si
15	4.02	5.1	4.02	5.1	2282	SLD 15	10851	368751	0.191	33.98	-87279	SLD 1	-87279	-368751	0.191	4.22	Si
197	4.02	5.1	4.02	5.1	97880	SLD 15	97880	368751	0.191	3.77							Si
296	4.02	5.1	4.02	5.1	82384	SLD 15	85471	368751	0.191	4.31							Si
577	8.04	5.1	4.02	5.1							-130403	SLD 13	-130403	-684204	0.265	5.25	Si
592	8.04	5.1	4.02	5.1							-146769	SLD 13	-138325	-684204	0.265	4.95	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	4.02	0	1321	SLU 9	1321	3935	26350	0	3935	1	2.98	Si

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
15	0.168	4.02	0	1283	SLU 9	1283	3935	26350	14693	14693	1	11.45	Si
296	0.052	4.02	0	-286	SLU 9	-286	-3935	-26350	-4566	-4566	1	15.99	Si
577	0.168	8.04	0	-2086	SLU 9	-2086	-4958	-26350	-14693	-14693	1	7.04	Si
592	0	8.04	0	-2123	SLU 9	-2123	-4958	-26350	0	-4958	1	2.34	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	4.02	0	810	Ger.	2000	3935	26350	0	3935	1	1.97	Si
0	0	4.02	0	775	Ger.	-1506	-3935	-26350	0	-3935	1	2.61	Si
15	0.168	4.02	0	781	Ger.	1972	3935	26350	14693	14693	1	7.45	Si
15	0.168	4.02	0	746	Ger.	-1534	-3935	-26350	-14693	-14693	1	9.58	Si
296	0.052	4.02	0	148	Ger.	1445	3935	26350	4566	4566	1	3.16	Si
296	0.052	4.02	0	-498	Ger.	-2061	-3935	-26350	-4566	-4566	1	2.22	Si
533	0.052	4.02	0	-796	Ger.	1001	3935	26350	4566	4566	1	4.56	Si
533	0.052	4.02	0	-821	Ger.	-2505	-3935	-26350	-4566	-4566	1	1.82	Si
577	0.168	8.04	0	-926	Ger.	918	4958	26350	14693	14693	1	16.01	Si
577	0.168	8.04	0	-1485	Ger.	-2588	-4958	-26350	-14693	-14693	1	5.68	Si
592	0	8.04	0	-955	Ger.	890	4958	26350	0	4958	1	5.57	Si
592	0	8.04	0	-1514	Ger.	-2616	-4958	-26350	0	-4958	1	1.9	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	4.02	0	802	SLD 13	802	3935	26350	0	3935	1	4.91	Si
15	0.168	4.02	0	773	SLD 13	773	3935	26350	14693	14693	1	19	Si
296	0.052	4.02	0	6	SLD 1	6	3935	26350	4566	4566	1	722.69	Si
296	0.052	4.02	0	-357	SLD 15	-357	-3935	-26350	-4566	-4566	1	12.8	Si
577	0.168	8.04	0	-1362	SLD 1	-1362	-4958	-26350	-14693	-14693	1	10.79	Si
592	0	8.04	0	-1391	SLD 1	-1391	-4958	-26350	0	-4958	1	3.57	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-69855	5	-62345	13.7	199.2	206.1	3600	-54461	2	-48224	10.6	149.4			Si
15	-55408	5	-55408	12.2	199.2	183.1	3600	-42498	2	-42498	9.4	149.4			Si
296	90942	4	91834	20.2	199.2	303.5	3600	75023	2	75876	16.7	149.4			Si
577	-136528	4	-136528	29	199.2	399.5	3600	-109029	2	-109029	23.2	149.4			Si
592	-159720	4	-147730	31.4	199.2	432.3	3600	-127789	2	-118069	25.1	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.009	0.006	0.008	0.005	0.008	0.006	0.007	0.005	0.008	0.006	0.018	2	0.014	2	9999	Si
276	0.141	0.083	0.122	0.072	0.123	0.083	0.107	0.072	0.118	0.083	0.264	2	0.186	2	2244	Si
296	0.139	0.082	0.12	0.071	0.122	0.082	0.106	0.071	0.116	0.082	0.261	2	0.184	2	2266	Si
577	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.002	0.003	0.003	0.007	2	0.006	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
30	160.3	4.7	30	0.011	0.00078	0.01704	0	3935	26350	14693	14693	13582	14693	1972	542	SLV 1	Si
592	139.5	6.6	30	0.016	0.00038	0.02238	0	4958	26350	14693	14693	14324	14693	-2588	123	SLV 9	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	555	-1506	-1874	775	555	2000	1313	810
15	527	-1534	-1874	746	527	1972	1313	781
296	0	-2061	-1874	-498	0	1445	1313	148
577	-527	-2588	-1874	-1485	-527	918	1313	-926
592	-555	-2616	-1874	-1514	-555	890	1313	-955

Campata 2 tra i fili 24 - 28, sezione R 25x30, aste 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-215137	SLU 9	-199400	-684204	0.265	3.43	Si
15	8.04	5.1	4.02	5.1							-183938	SLU 9	-183938	-684204	0.265	3.72	Si
296	4.02	5.1	4.02	5.1	72984	SLU 10	72984	368751	0.191	5.05							Si
577	8.04	5.1	4.02	5.1							-158744	SLU 9	-158744	-684204	0.265	4.31	Si
592	8.04	5.1	4.02	5.1							-186103	SLU 9	-172286	-684204	0.265	3.97	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-140408	SLV 1	-134352	-684204	0.265	5.09	Si
15	8.04	5.1	4.02	5.1							-128309	SLV 1	-128309	-684204	0.265	5.33	Si
296	4.02	5.1	4.02	5.1	39804	SLV 1	42035	368751	0.191	8.77							Si
577	8.04	5.1	4.02	5.1							-114836	SLV 13	-114836	-684204	0.265	5.96	Si
592	8.04	5.1	4.02	5.1							-124900	SLV 13	-119873	-684204	0.265	5.71	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-132494	SLD 1	-125126	-684204	0.265	5.47	Si
15	8.04	5.1	4.02	5.1							-117857	SLD 1	-117857	-684204	0.265	5.81	Si
296	4.02	5.1	4.02	5.1	39105	SLD 1	40327	368751	0.191	9.14							Si
577	8.04	5.1	4.02	5.1							-103151	SLD 13	-103151	-684204	0.265	6.63	Si
592	8.04	5.1	4.02	5.1							-115614	SLD 13	-109339	-684204	0.265	6.26	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	2098	SLU 9	2098	4958	26350	0	4958	1	2.36	Si
15	0.168	8.04	0	2062	SLU 9	2062	4958	26350	14693	14693	1	7.13	Si
296	0.052	4.02	0	67	SLU 5	67	3935	26350	4566	4566	1	67.82	Si
296	0.052	4.02	0	-1	SLU 6	-1	-3935	-26350	-4566	-4566	1	4633.67	Si
577	0.168	8.04	0	-1806	SLU 9	-1806	-4958	-26350	-14693	-14693	1	8.14	Si

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
592	0	8.04	0	-1842	SLU 9	-1842	-4958	-26350	0	-4958	1	2.69	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1595	Ger.	2617	4958	26350	0	4958	1	1.89	Si
0	0	8.04	0	819	Ger.	-1507	-4958	-26350	0	-4958	1	3.29	Si
15	0.168	8.04	0	1567	Ger.	2589	4958	26350	14693	14693	1	5.68	Si
15	0.168	8.04	0	791	Ger.	-1535	-4958	-26350	-14693	-14693	1	9.57	Si
79	0.052	4.02	0	761	Ger.	2469	3935	26350	4566	4566	1	1.85	Si
79	0.052	4.02	0	609	Ger.	-1655	-3935	-26350	-4566	-4566	1	2.76	Si
296	0.052	4.02	0	278	Ger.	2062	3935	26350	4566	4566	1	2.21	Si
296	0.052	4.02	0	-225	Ger.	-2062	-3935	-26350	-4566	-4566	1	2.21	Si
577	0.168	8.04	0	-654	Ger.	1535	4958	26350	14693	14693	1	9.57	Si
577	0.168	8.04	0	-1391	Ger.	-2589	-4958	-26350	-14693	-14693	1	5.68	Si
592	0	8.04	0	-683	Ger.	1507	4958	26350	0	4958	1	3.29	Si
592	0	8.04	0	-1419	Ger.	-2617	-4958	-26350	0	-4958	1	1.89	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1425	SLD 13	1425	4958	26350	0	4958	1	3.48	Si
15	0.168	8.04	0	1397	SLD 13	1397	4958	26350	14693	14693	1	10.52	Si
296	0.052	4.02	0	167	SLD 3	167	3935	26350	4566	4566	1	27.32	Si
296	0.052	4.02	0	-114	SLD 13	-114	-3935	-26350	-4566	-4566	1	39.88	Si
577	0.168	8.04	0	-1230	SLD 1	-1230	-4958	-26350	-14693	-14693	1	11.95	Si
592	0	8.04	0	-1258	SLD 1	-1258	-4958	-26350	0	-4958	1	3.94	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-153551	4	-142294	30.2	199.2	416.4	3600	-122510	2	-113459	24.1	149.4			Si
15	-131248	4	-131248	27.9	199.2	384.1	3600	-104619	2	-104619	22.2	149.4			Si
296	51182	5	51182	11.3	199.2	169.2	3600	38252	2	38252	8.4	149.4			Si
577	-112758	4	-112758	24	199.2	330	3600	-88441	2	-88441	18.8	149.4			Si
592	-132277	4	-122412	26	199.2	358.2	3600	-103990	2	-96110	20.4	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	-0.001	-0.002	-0.001	-0.002	-0.001	-0.002	-0.001	-0.002	-0.001	-0.002	-0.003	1	-0.003	1	9999	Si
296	0.053	0.017	0.047	0.015	0.042	0.017	0.037	0.015	0.038	0.017	0.09	2	0.039	2	6563	Si
577	0	-0.001	0	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	2	-0.001	2	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
622	200.1	6.6	30	0.016	0.00063	0.02237	0	4958	26350	14693	14693	13985	14693	2589	798	SLV 1	Si
1184	148	6.6	30	0.016	0.00032	0.02237	0	4958	26350	14693	14693	14049	14693	-2589	667	SLV 9	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	555	-1507	-1875	819	555	2617	1875	1595
15	527	-1535	-1875	791	527	2589	1875	1567
296	0	-2062	-1875	-225	0	2062	1875	278
577	-527	-2589	-1875	-1391	-527	1535	1875	-654
592	-555	-2617	-1875	-1419	-555	1507	1875	-683

Campata 3 tra i fili 28 - 32, sezione R 25x30, aste 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120; campata a comportamento dissipativo

Verifiche a flessione in famiglia SLU

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-184696	SLU 9	-170179	-684204	0.265	4.02	Si
15	8.04	5.1	4.02	5.1							-155937	SLU 9	-155937	-684204	0.265	4.39	Si
296	4.02	5.1	4.02	5.1	96818	SLU 9	96818	368751	0.191	3.81							Si
577	4.02	5.1	4.02	5.1							-151550	SLU 10	-151550	-368751	0.191	2.43	Si
592	4.02	5.1	4.02	5.1							-167176	SLU 10	-159226	-368751	0.191	2.32	Si

Verifiche a flessione in famiglia SLV

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-133424	SLV 1	-127322	-684204	0.265	5.37	Si
15	8.04	5.1	4.02	5.1							-121270	SLV 1	-121270	-684204	0.265	5.64	Si
296	4.02	5.1	4.02	5.1	70418	SLV 1	73153	368751	0.191	5.04							Si
577	4.02	5.1	4.02	5.1							-157886	SLV 15	-157886	-368751	0.191	2.34	Si
592	4.02	5.1	4.02	5.1							-164888	SLV 15	-161281	-368751	0.191	2.29	Si

Verifiche SLD Resistenza a flessione

x	A sup.	C.b. sup.	A inf.	C.b. inf.	M+ela	Comb.	M+des	M+ult	x/d	coeff	M-ela	Comb.	M-des	M-ult	x/d	coeff	Verifica
0	8.04	5.1	4.02	5.1							-120476	SLD 1	-113377	-684204	0.265	6.03	Si
15	8.04	5.1	4.02	5.1							-106398	SLD 1	-106398	-684204	0.265	6.43	Si
296	4.02	5.1	4.02	5.1	64890	SLD 1	65996	368751	0.191	5.59							Si
577	4.02	5.1	4.02	5.1							-126382	SLD 15	-126382	-368751	0.191	2.92	Si
592	4.02	5.1	4.02	5.1							-134455	SLD 15	-130313	-368751	0.191	2.83	Si

Verifiche a taglio in famiglia SLU

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1936	SLU 9	1936	4958	26350	0	4958	1	2.56	Si
15	0.168	8.04	0	1899	SLU 9	1899	4958	26350	14693	14693	1	7.74	Si
296	0.052	4.02	0	85	SLU 9	85	3935	26350	4566	4566	1	53.86	Si
577	0.168	4.02	0	-1024	SLU 9	-1024	-3935	-26350	-14693	-14693	1	14.35	Si
592	0	4.02	0	-1061	SLU 9	-1061	-3935	-26350	0	-3935	1	3.71	Si

Verifiche a taglio in famiglia SLV

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1407	Ger.	2616	4958	26350	0	4958	1	1.9	Si

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	823	Ger.	-890	-4958	-26350	0	-4958	1	5.57	Si
15	0.168	8.04	0	1379	Ger.	2588	4958	26350	14693	14693	1	5.68	Si
15	0.168	8.04	0	795	Ger.	-918	-4958	-26350	-14693	-14693	1	16.01	Si
59	0.052	4.02	0	735	Ger.	2505	3935	26350	4566	4566	1	1.82	Si
59	0.052	4.02	0	712	Ger.	-1001	-3935	-26350	-4566	-4566	1	4.56	Si
296	0.052	4.02	0	371	Ger.	2061	3935	26350	4566	4566	1	2.22	Si
296	0.052	4.02	0	-262	Ger.	-1445	-3935	-26350	-4566	-4566	1	3.16	Si
577	0.168	4.02	0	-453	Ger.	1534	3935	26350	14693	14693	1	9.58	Si
577	0.168	4.02	0	-779	Ger.	-1972	-3935	-26350	-14693	-14693	1	7.45	Si
592	0	4.02	0	-481	Ger.	1506	3935	26350	0	3935	1	2.61	Si
592	0	4.02	0	-807	Ger.	-2000	-3935	-26350	0	-3935	1	1.97	Si

Verifiche SLD Resistenza a taglio

x	A st	A sl	A sag	Vela	Comb.	Vdes	Vrd	Vrcd	Vrsd	Vult	cotgθ	coeff	Verifica
0	0	8.04	0	1278	SLD 13	1278	4958	26350	0	4958	1	3.88	Si
15	0.168	8.04	0	1250	SLD 13	1250	4958	26350	14693	14693	1	11.75	Si
296	0.052	4.02	0	233	SLD 3	233	3935	26350	4566	4566	1	19.63	Si
296	0.052	4.02	0	-124	SLD 13	-124	-3935	-26350	-4566	-4566	1	36.97	Si
577	0.168	4.02	0	-708	SLD 1	-708	-3935	-26350	-14693	-14693	1	20.76	Si
592	0	4.02	0	-736	SLD 1	-736	-3935	-26350	0	-3935	1	5.35	Si

Verifiche delle tensioni in esercizio

x	Rara							Quasi permanente							Verifica
	Mela	Comb.	Mdes	σ c	σ c lim.	σ f.	σ f lim.	Mela	Comb.	Mdes	σ c	σ c lim.	σ FRP	σ FRP lim.	
0	-131407	4	-121019	25.7	199.2	354.1	3600	-103672	2	-95309	20.3	149.4			Si
15	-110842	4	-110842	23.6	199.2	324.3	3600	-87156	2	-87156	18.5	149.4			Si
296	69837	4	69837	15.4	199.2	230.8	3600	57778	2	57778	12.7	149.4			Si
577	-108072	5	-108072	23.8	199.2	357.2	3600	-85878	2	-85878	18.9	149.4			Si
592	-119377	5	-113619	25	199.2	375.5	3600	-95327	2	-90498	19.9	149.4			Si

Verifica di apertura delle fessure

La campata non presenta apertura delle fessure

Verifica di deformabilità

x	Rara				Frequente				Quasi permanente							Verifica
	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess.+	Fess.-	Elastica+	Elastica-	Fess. viscosa+	Comb.	Fess. viscosa-	Comb.	l/f	
15	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	2	0.004	2	9999	Si
296	0.082	0.051	0.074	0.046	0.073	0.051	0.066	0.046	0.07	0.051	0.163	2	0.12	2	3626	Si
577	0.001	0.001	0.001	0	0.001	0.001	0.001	0.001	0.001	0.001	0.003	1	0.002	1	9999	Si

Verifiche taglio ciclico nel piano Circolare 7 21-01-19 §C8.7.2.3.5, [C8.7.2.8]

Ascissa	Lv	x	h	ρ,tot	θ,m	θ,y	μΔ,pl	Vrd	VRcd(cotθ=1)	VRsd	Vw	Vr	Vu	Ved	Ned	Comb.	Verifica
1214	163.7	6.6	30	0.016	0.00054	0.02238	0	4958	26350	14693	14693	13985	14693	2588	866	SLV 1	Si
1776	105.9	4.7	30	0.011	0.00002	0.01704	0	3935	26350	14693	14693	14529	14693	-1972	887	SLV 7	Si

Valutazione dei tagli secondo gerarchia delle resistenze (γrd =1,1)

x	taglio negativo				taglio positivo			
	contr. grav.	Vdes	contr. mom. res.	Vela	contr. grav.	Vdes	contr. mom. res.	Vela
0	555	-890	-1313	823	555	2616	1874	1407
15	527	-918	-1313	795	527	2588	1874	1379
296	0	-1445	-1313	-262	0	2061	1874	371
577	-527	-1972	-1313	-779	-527	1534	1874	-453
592	-555	-2000	-1313	-807	-555	1506	1874	-481

Momenti resistenti a filo appoggi

campata	x	appoggio	momento positivo	momento negativo
1	15	20	368751	-368751
1	577	24	369360	-684204
2	15	24	369360	-684204
2	577	28	369360	-684204
3	15	28	369360	-684204
3	577	32	368751	-368751

Controllo diametro delle barre longitudinali nei nodi

Nessun nodo è da verificare

8.4 Verifiche pareti C.A.

Le unità di misura elencate nel capitolo sono in [cm, daN] ove non espressamente specificato.

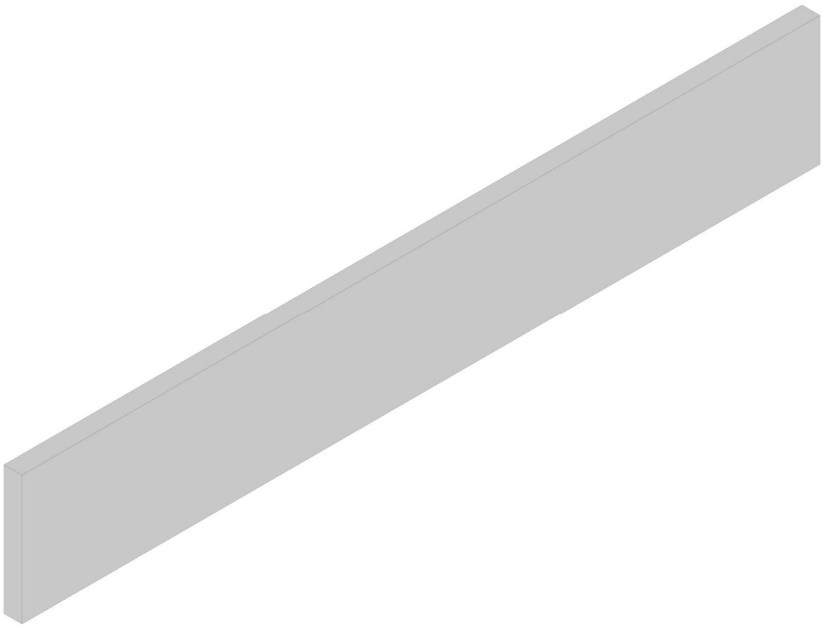
***Descrizione breve**: nome sintetico assegnato al livello.*
***Descrizione**: nome assegnato al livello.*
***Quota**: quota superiore espressa nel sistema di riferimento assoluto. [cm]*
***Spessore**: spessore del livello. [cm]*
***Descrizione**: descrizione della sezione di verifica.*
***Dir.**: direzione della sezione di verifica.*
***Base**: base della sezione. [cm]*
***Altezza**: altezza della sezione. [cm]*
***As,sup**: area di acciaio efficace superiore. [cm²]*
***As,inf**: area di acciaio efficace inferiore. [cm²]*
***c,sup**: copriferro medio superiore. [cm]*
***c,inf**: copriferro medio inferiore. [cm]*
***Comb.**: combinazione di verifica.*
***MEd**: momento agente. [daN*cm]*
***NEd**: sforzo normale agente, positivo se di trazione. [daN]*
***MRd**: momento resistente. [daN*cm]*
***NRd**: sforzo normale resistente, positivo se di trazione. [daN]*
***c.s.**: coefficiente di sicurezza.*
***Verifica**: stato di verifica.*
***d**: altezza utile. [cm]*
***bw**: minima larghezza anima. [cm]*

***Armatura a taglio**: necessità di armatura a taglio.*
***Asw/s**: rapporto tra l'area dell'armatura trasversale e l'interasse tra due armature consecutive.*
***VEd**: taglio agente. [daN]*
***Vrd,c**: resistenza di calcolo a taglio per elementi privi di armature trasversali. [daN]*
***Vrcd**: valore resistente di calcolo a taglio compressione del calcestruzzo d'anima. [daN]*
***Vrsd**: valore resistente di calcolo a taglio trazione dell'armatura trasversale. [daN]*
***VRd**: resistenza a taglio. [daN]*
***cotg(θ)**: cotangente dell'angolo dei puntoni rispetto all'asse.*
***Asl**: area armatura longitudinale. [cm²]*
***Sezione fessurata**: sezione fessurata.*
***σc**: tensione del calcestruzzo. [daN/cm²]*
***σc limite**: tensione limite del calcestruzzo. [daN/cm²]*
***Es/Ec**: coefficiente di omogenizzazione.*
***σf**: tensione dell'armatura. [daN/cm²]*
***σf limite**: tensione limite dell'armatura. [daN/cm²]*
***Spessore**: spessore della parete in corrispondenza della barra. [cm]*
***Φ**: diametro barra. [cm]*
***Φ max**: diametro massimo ammissibile. [cm]*
***Passo**: passo massimo delle barre. [cm]*
***Passo max.**: passo massimo delle barre ammissibile da norma. [cm]*
***Ac**: area sezione. [cm²]*
***As,eff**: area efficace delle barre presenti nella sezione. [cm²]*
***As,min**: area minima richiesta. [cm²]*
***% min**: percentuale minima di area da prevedere.*
***Ash/Asv,max**: rapporto tra area barre orizzontali e area barre verticali minimo. [cm²]*
***% As,vert**: percentuale di armatura verticale.*
***As,max**: area massima richiesta. [cm²]*
***% max**: percentuale massima di area da prevedere.*

Muro di sostegno a monte

Verifiche condotte secondo D.M. 17-01-18 (N.T.C.)

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C25/30 Rck 300

Livelli significativi

Descrizione breve	Descrizione	Quota	Spessore
L1	Fondazione	0	60

Verifiche nei nodi

Sezioni rettangolari

Descrizione	Dir.	Base	Altezza	As,sup	As,inf	c,sup	c,inf
2070 Prosp.A	Orizzontale	100	25	8.04	8.04	5.4	5.4
2061 Prosp.A	Orizzontale	100	25	8.04	8.04	5.4	5.4
2069 Prosp.A	Orizzontale	100	25	8.04	8.04	5.4	5.4
2060 Prosp.A	Orizzontale	100	25	8.04	8.04	5.4	5.4
2062 Prosp.A	Orizzontale	100	25	8.04	8.04	5.4	5.4
2072 Prosp.A	Orizzontale	100	25	8.04	8.04	5.4	5.4
2076 Prosp.A	Orizzontale	50	25	6.03	6.03	5.63	5.63
2054 Prosp.A	Orizzontale	50	25	6.03	6.03	5.63	5.63
2424 Prosp.A	Verticale	50	25	6.03	6.03	3.8	3.8
2420 Prosp.A	Verticale	50	25	6.03	6.03	3.8	3.8
2423 Prosp.A	Verticale	50	25	6.03	6.03	3.8	3.8

Descrizione	Dir.	Base	Altezza	As,sup	As,inf	c,sup	c,inf
2422 Prosp.A	Verticale	50	25	6.03	6.03	3.8	3.8
2421 Prosp.A	Verticale	50	25	6.03	6.03	3.8	3.8

Verifiche a flessione SLU D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
2070 Prosp.A	Orizzontale	SLV 15	102608	1503	557938	8172	5.4376	Si
2061 Prosp.A	Orizzontale	SLV 13	101976	1581	554568	8600	5.4382	Si
2069 Prosp.A	Orizzontale	SLV 15	102018	1576	554862	8569	5.4388	Si
2060 Prosp.A	Orizzontale	SLV 13	102573	1491	558376	8117	5.4437	Si
2062 Prosp.A	Orizzontale	SLV 13	99719	1325	563327	7487	5.6491	Si

Verifiche a flessione SLD Resistenza D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
2070 Prosp.A	Orizzontale	SLD 15	48657	1207	520628	12915	10.6999	Si
2060 Prosp.A	Orizzontale	SLD 13	48634	1198	521242	12840	10.7177	Si
2061 Prosp.A	Orizzontale	SLD 13	48417	1201	520628	12917	10.753	Si
2069 Prosp.A	Orizzontale	SLD 15	48449	1195	521089	12854	10.7554	Si
2072 Prosp.A	Orizzontale	SLD 3	-53323	550	-575564	5937	10.794	Si

Verifiche a taglio SLU D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
2057 Prosp.A	Orizzontale	19.6	100	Non necessaria	0	SLV 3	1967	-113	-103615	10221	42928	0	10221	2.5	8.042	5.1948	Si
2056 Prosp.A	Orizzontale	19.6	100	Non necessaria	0	SLV 1	1890	-1444	-99988	10377	43090	0	10377	2.5	8.042	5.4893	Si
2072 Prosp.A	Orizzontale	19.6	100	Non necessaria	0	SLV 1	1855	270	-106379	10207	42914	0	10207	2.5	8.042	5.5026	Si
2058 Prosp.A	Orizzontale	19.6	100	Non necessaria	0	SLV 3	1855	264	-106287	10207	42914	0	10207	2.5	8.042	5.5034	Si
2065 Prosp.A	Orizzontale	19.6	100	Non necessaria	0	SLV 1	1844	-1225	-84061	10351	43063	0	10351	2.5	8.042	5.6125	Si

Verifiche a taglio SLD Resistenza D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
2056 Prosp.A	Orizzontale	19.6	100	Non necessaria	0	SLD 1	1210	-1695	-56352	10407	43120	0	10407	2.5	8.042	8.6009	Si
2057 Prosp.A	Orizzontale	19.6	100	Non necessaria	0	SLD 3	1172	-220	-55929	10233	42941	0	10233	2.5	8.042	8.7323	Si
2072 Prosp.A	Orizzontale	19.6	100	Non necessaria	0	SLD 1	1062	297	-54427	10207	42914	0	10207	2.5	8.042	9.6129	Si
2058 Prosp.A	Orizzontale	19.6	100	Non necessaria	0	SLD 3	1061	289	-54330	10207	42914	0	10207	2.5	8.042	9.6171	Si
2065 Prosp.A	Orizzontale	19.6	100	Non necessaria	0	SLD 1	1066	-900	-30814	10313	43023	0	10313	2.5	8.042	9.6714	Si

Verifiche SLE tensione calcestruzzo D.M. 17-01-18 §4.1.2.2.5.1

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σc	σc limite	Es/Ec	c.s.	Verifica
2076 Prosp.A	Orizzontale	SLE QP 2	-19489	-6198	No	-7.6	112.1	15	14.6681	Si
2054 Prosp.A	Orizzontale	SLE QP 2	-19450	-6198	No	-7.6	112.1	15	14.6808	Si
2424 Prosp.A	Verticale	SLE QP 2	5104	-7856	No	-6.3	112.1	15	17.7875	Si
2420 Prosp.A	Verticale	SLE QP 2	5080	-7857	No	-6.3	112.1	15	17.7956	Si
2423 Prosp.A	Verticale	SLE QP 2	4715	-7886	No	-6.3	112.1	15	17.9033	Si

Verifiche SLE tensione acciaio D.M. 17-01-18 §4.1.2.2.5.2

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σf	σf limite	Es/Ec	c.s.	Verifica
2422 Prosp.A	Verticale	SLE RA 1	3494	-7204	No	-69.7	3600	15	51.6273	Si
2421 Prosp.A	Verticale	SLE RA 1	4235	-7148	No	-67.9	3600	15	53.0086	Si
2423 Prosp.A	Verticale	SLE RA 1	4263	-7146	No	-67.8	3600	15	53.0595	Si
2420 Prosp.A	Verticale	SLE RA 1	4937	-6997	No	-65.2	3600	15	55.2365	Si
2424 Prosp.A	Verticale	SLE RA 1	4959	-6996	No	-65.1	3600	15	55.2812	Si

Verifica diametro massimo D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Spessore	Φ	Φ max	Verifica
2054 Prosp.A	Orizzontale	25	1.6	2.5	Si
2297 Prosp.A	Orizzontale	25	1.6	2.5	Si
2297 Prosp.A	Verticale	25	1.6	2.5	Si
2298 Prosp.A	Orizzontale	25	1.6	2.5	Si
2298 Prosp.A	Verticale	25	1.6	2.5	Si

Verifica passo massimo per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Passo	Passo max.	Verifica
2189 Prosp.A	Verticale	25	30	Si
2297 Prosp.A	Verticale	25	30	Si
2298 Prosp.A	Orizzontale	25	30	Si
2298 Prosp.A	Verticale	25	30	Si
2299 Prosp.A	Orizzontale	25	30	Si

Verifica passo massimo EN1992-1-1:2008 §9.6.2(3) - EN1992-1-1:2008 §9.6.3(2)

Descrizione	Dir.	Passo	Passo max.	Verifica
2189 Prosp.A	Verticale	25	40	Si
2297 Prosp.A	Verticale	25	40	Si
2298 Prosp.A	Orizzontale	25	40	Si
2298 Prosp.A	Verticale	25	40	Si
2299 Prosp.A	Orizzontale	25	40	Si

Verifica area minima per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Ac	As,eff	As,min	% min	Verifica
2189 Prosp.A	Verticale	2500	16.08	5	0.2	Si
2190 Prosp.A	Orizzontale	2500	16.08	5	0.2	Si
2189 Prosp.A	Orizzontale	2500	16.08	5	0.2	Si
2188 Prosp.A	Verticale	2500	16.08	5	0.2	Si
2188 Prosp.A	Orizzontale	2500	16.08	5	0.2	Si

Verifica area minima barre orizzontali EN1992-1-1:2008 §9.6.3(1)

Descrizione	Ac	Ash/Asv,max	% As,vert	As,eff	As,min	% min	Verifica
2194 Prosp.A	2500	0.25	0.8	16.08	5.03	0.2	Si
2174 Prosp.A	2500	0.25	0.8	16.08	5.03	0.2	Si
2192 Prosp.A	2500	0.25	0.64	16.08	5	0.2	Si
2176 Prosp.A	2500	0.25	0.64	16.08	5	0.2	Si

Descrizione	Ac	Ash/Asv,max	% As,vert	As,eff	As,min	% min	Verifica
2177 Prosp.A	2500	0.25	0.64	16.08	5	0.2	Si

Verifica area minima barre verticali EN1992-1-1:2008 §9.6.2(1)

Descrizione	Ac	As,eff	As,min	% min	As,max	% max	Verifica
2184 Prosp.A	2500	16.08	5	0.2	100	4	Si
2182 Prosp.A	2500	16.08	5	0.2	100	4	Si
2183 Prosp.A	2500	16.08	5	0.2	100	4	Si
2185 Prosp.A	2500	16.08	5	0.2	100	4	Si
2186 Prosp.A	2500	16.08	5	0.2	100	4	Si

Verifiche generali

Setto 1

Verifiche condotte secondo D.M. 17-01-18 (N.T.C.)

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Livelli significativi

Descrizione breve	Descrizione	Quota	Spessore
L1	Fondazione	0	60
L2	Piano 1	440	20
L3	Copertura	790	20

Verifiche nei nodi

Sezioni rettangolari

Descrizione	Dir.	Base	Altezza	As,sup	As,inf	c,sup	c,inf
2792 Prosp.A	Orizzontale	50	30	4.29	4.29	6.34	6.33
2800 Prosp.A	Orizzontale	50	30	4.29	4.29	6.34	6.33
2216 Prosp.A	Orizzontale	100	30	7.42	7.42	5.9	5.9
2213 Prosp.A	Orizzontale	100	30	8.04	8.04	5.9	5.9
2209 Prosp.A	Orizzontale	100	30	8.04	8.04	5.9	5.9
4158 Prosp.A	Orizzontale	100	30	7.44	7.44	5.9	5.9
4250 Prosp.A	Orizzontale	100	30	7.48	7.48	5.9	5.9
1957 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2046 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2735 Prosp.A	Orizzontale	80.88	30	8.04	8.04	6.08	6.08
5572 Prosp.A	Orizzontale	50	30	7.87	7.87	6.08	6.08
5580 Prosp.A	Orizzontale	50	30	7.87	7.87	6.08	6.08
2105 Prosp.A	Orizzontale	99.17	30	24.13	24.13	6.02	6.02

Verifiche a flessione SLU D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
2792 Prosp.A	Orizzontale	SLV 3	506957	-12201	574483	-13826	1.1332	Si
2800 Prosp.A	Orizzontale	SLV 1	497397	-12802	586966	-15107	1.1801	Si
2216 Prosp.A	Orizzontale	SLV 13	658278	-6444	866144	-8479	1.3158	Si
2213 Prosp.A	Orizzontale	SLV 13	669307	-7171	930101	-9965	1.3896	Si
2209 Prosp.A	Orizzontale	SLV 15	659088	-6452	920364	-9010	1.3964	Si

Verifiche a flessione SLD Resistenza D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
2792 Prosp.A	Orizzontale	SLD 3	345230	-11851	659450	-22638	1.9102	Si
2800 Prosp.A	Orizzontale	SLD 1	338980	-12407	681484	-24944	2.0104	Si
2216 Prosp.A	Orizzontale	SLD 13	403427	-6214	925068	-14248	2.293	Si
4158 Prosp.A	Orizzontale	SLD 15	-407934	-7936	-973963	-18948	2.3875	Si
4250 Prosp.A	Orizzontale	SLD 13	-407777	-7936	-978401	-19041	2.3994	Si

Verifiche a taglio SLU D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
3045 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLV 3	13679	2887	1739	15143	75026	0	15143	2.5	13.744	1.107	Si
3041 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLV 3	15192	-17908	740198	17681	72588	0	17681	2.5	16.085	1.1638	Si
3028 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLV 1	14431	-17875	720502	17677	72584	0	17677	2.5	16.085	1.2249	Si
3052 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLV 1	-12319	-2785	533856	15866	70778	0	15866	2.5	16.085	1.2879	Si
3085 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLV 3	-11781	-864	442961	15853	70496	0	15853	2.5	16.788	1.3456	Si

Verifiche a taglio SLD Resistenza D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
3045 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLD 3	10313	2749	-1630	14365	75026	0	14365	2.5	11.733	1.393	Si
3041 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLD 3	10707	-16895	498791	17559	72461	0	17559	2.5	16.085	1.6398	Si
3052 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLD 1	-9294	-3308	348674	15929	70843	0	15929	2.5	16.085	1.7138	Si
3028 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLD 1	10156	-16898	484988	17559	72462	0	17559	2.5	16.085	1.7289	Si
3085 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLD 3	-8814	-1426	278686	15921	70566	0	15921	2.5	16.788	1.8062	Si

Verifiche SLE tensione calcestruzzo D.M. 17-01-18 §4.1.2.2.5.1

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σc	σc limite	Es/Ec	c.s.	Verifica
1957 Prosp.A	Orizzontale	SLE QP 2	20997	-41201	No	-26.1	149.4	15	5.7346	Si
2046 Prosp.A	Orizzontale	SLE QP 2	20904	-41180	No	-26	149.4	15	5.7396	Si
2800 Prosp.A	Orizzontale	SLE QP 2	136138	-11903	No	-24	149.4	15	6.2198	Si
2792 Prosp.A	Orizzontale	SLE QP 2	138145	-11405	No	-24	149.4	15	6.2352	Si
2735 Prosp.A	Orizzontale	SLE QP 2	203340	-20369	No	-22.8	149.4	15	6.5542	Si

Verifiche SLE tensione acciaio D.M. 17-01-18 §4.1.2.2.5.2

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σf	σf limite	Es/Ec	c.s.	Verifica
1957 Prosp.A	Orizzontale	SLE RA 1	21562	-38585	No	-310	3600	15	11.6113	Si
2046 Prosp.A	Orizzontale	SLE RA 1	21498	-38569	No	-310	3600	15	11.6138	Si
5572 Prosp.A	Orizzontale	SLE RA 4	-182177	2545	No	211.3	3600	15	17.0337	Si
5580 Prosp.A	Orizzontale	SLE RA 4	-181600	2553	No	210.8	3600	15	17.0767	Si
2105 Prosp.A	Orizzontale	SLE RA 1	69694	-58288	No	-202.6	3600	15	17.7705	Si

Verifica diametro massimo D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Spessore	Φ	Φ max	Verifica
1957 Prosp.A	Orizzontale	30	1.6	3	Si
5648 Prosp.A	Verticale	30	1.6	3	Si
5648 Prosp.A	Orizzontale	30	1.6	3	Si
5645 Prosp.A	Verticale	30	1.6	3	Si
5645 Prosp.A	Orizzontale	30	1.6	3	Si

Verifica passo massimo per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Passo	Passo max.	Verifica
3041 Prosp.A	Verticale	26.8	30	Si
3021 Prosp.A	Verticale	26.8	30	Si
3015 Prosp.A	Verticale	26.8	30	Si
2983 Prosp.A	Verticale	26.8	30	Si
2981 Prosp.A	Verticale	26.8	30	Si

Verifica passo massimo EN1992-1-1:2008 §9.6.2(3) - EN1992-1-1:2008 §9.6.3(2)

Descrizione	Dir.	Passo	Passo max.	Verifica
3041 Prosp.A	Verticale	26.8	40	Si
3021 Prosp.A	Verticale	26.8	40	Si
3015 Prosp.A	Verticale	26.8	40	Si
2983 Prosp.A	Verticale	26.8	40	Si
2981 Prosp.A	Verticale	26.8	40	Si

Verifica area minima per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Ac	As,eff	As,min	% min	Verifica
2443 Prosp.A	Orizzontale	3000	14.52	6	0.2	Si
5549 Prosp.A	Orizzontale	3000	14.53	6	0.2	Si
5810 Prosp.A	Verticale	3000	14.56	6	0.2	Si
5807 Prosp.A	Verticale	3000	14.56	6	0.2	Si
5832 Prosp.A	Verticale	3000	14.57	6	0.2	Si

Verifica area minima barre orizzontali EN1992-1-1:2008 §9.6.3(1)

Descrizione	Ac	Ash/Asv,max	% As,vert	As,eff	As,min	% min	Verifica
2105 Prosp.A	2967.55	0.25	1.62	16.08	12.03	0.2	Si
2098 Prosp.A	2928.38	0.25	1.63	16.08	11.91	0.2	Si
2101 Prosp.A	2943.47	0.25	1.61	16.08	11.84	0.2	Si
2096 Prosp.A	2927.35	0.25	1.6	16.08	11.73	0.2	Si
2092 Prosp.A	2922.6	0.25	1.6	16.08	11.7	0.2	Si

Verifica area minima barre verticali EN1992-1-1:2008 §9.6.2(1)

Descrizione	Ac	As,eff	As,min	% min	As,max	% max	Verifica
2443 Prosp.A	3000	14.52	6	0.2	120	4	Si
5549 Prosp.A	3000	14.53	6	0.2	120	4	Si
5552 Prosp.A	3000	14.6	6	0.2	120	4	Si
2332 Prosp.A	3000	14.74	6	0.2	120	4	Si
2098 Prosp.A	2955.76	48.09	5.91	0.2	118.23	4	Si

Verifiche generali

Setto 2

Verifiche condotte secondo D.M. 17-01-18 (N.T.C.)

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Livelli significativi

Descrizione breve	Descrizione	Quota	Spessore
L1	Fondazione	0	60
L2	Piano 1	440	20
L3	Copertura	790	20

Verifiche nei nodi

Sezioni rettangolari

Descrizione	Dir.	Base	Altezza	As,sup	As,inf	c,sup	c,inf
2793 Prosp.A	Orizzontale	50	30	4.29	4.29	6.34	6.33
2238 Prosp.A	Orizzontale	100	30	7.24	7.24	5.9	5.9
2234 Prosp.A	Orizzontale	100	30	7.24	7.24	5.9	5.9
2242 Prosp.A	Orizzontale	100	30	7.66	7.66	5.9	5.9
2007 Prosp.A	Orizzontale	100	30	15.37	15.37	5.9	5.9
1998 Prosp.A	Orizzontale	100	30	15.37	15.37	5.9	5.9
1982 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
2023 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
1990 Prosp.A	Orizzontale	100	30	15.94	15.94	5.9	5.9
2156 Prosp.A	Orizzontale	50	30	12.06	12.06	6.13	6.13
2148 Prosp.A	Orizzontale	50	30	12.06	12.06	6.13	6.13
1958 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2047 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
1966 Prosp.A	Orizzontale	100	30	16.08	16.08	5.99	5.99

Verifiche a flessione SLU D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
2793 Prosp.A	Orizzontale	SLV 15	-564038	-18266	-642383	-20803	1.1389	Si
2238 Prosp.A	Orizzontale	SLV 1	-718169	-11977	-922122	-15379	1.284	Si
2234 Prosp.A	Orizzontale	SLV 3	-718118	-11998	-922472	-15412	1.2846	Si
2793 Prosp.A	Orizzontale	SLV 3	511921	-17770	663085	-23018	1.2953	Si
2242 Prosp.A	Orizzontale	SLV 1	-745370	-13690	-982093	-18038	1.3176	Si

Verifiche a flessione SLD Resistenza D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
2007 Prosp.A	Orizzontale	SLD 3	-641115	-9636	-1623495	-24401	2.5323	Si
1998 Prosp.A	Orizzontale	SLD 1	-641133	-9648	-1623849	-24437	2.5328	Si
1982 Prosp.A	Orizzontale	SLD 3	-680382	-11692	-1726300	-29664	2.5373	Si
2023 Prosp.A	Orizzontale	SLD 1	-680389	-11696	-1726415	-29678	2.5374	Si
1990 Prosp.A	Orizzontale	SLD 1	-655081	-9889	-1673474	-25262	2.5546	Si

Verifiche a taglio SLU D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
2965 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLV 13	13634	-7778	-158456	14643	76060	0	14643	2.5	10.053	1.074	Si
2969 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLV 15	-13623	-7826	-158378	14650	76067	0	14650	2.5	10.053	1.0753	Si
2969 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLV 13	-17724	-36297	-649208	19682	74880	0	19682	2.5	15.428	1.1105	Si
2965 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLV 15	-17667	-36828	-651023	19746	74946	0	19746	2.5	15.428	1.1177	Si
3006 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLV 15	-14537	-19200	-750767	17804	72484	0	17804	2.5	16.085	1.2247	Si

Verifiche a taglio SLD Resistenza D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
2965 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLD 13	7776	-8222	-89998	14700	76119	0	14700	2.5	10.053	1.8905	Si
2969 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLD 15	-7769	-8271	-89947	14707	76126	0	14707	2.5	10.053	1.8929	Si
2969 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLD 13	-10117	-36515	-367790	19709	74907	0	19709	2.5	15.428	1.9481	Si
2965 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLD 15	-10084	-37042	-368861	19772	74973	0	19772	2.5	15.428	1.9607	Si
3006 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLD 15	-8392	-19439	-432578	17832	72513	0	17832	2.5	16.085	2.125	Si

Verifiche SLE tensione calcestruzzo D.M. 17-01-18 §4.1.2.2.5.1

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σc	σc limite	Es/Ec	c.s.	Verifica
2156 Prosp.A	Orizzontale	SLE QP 2	-14076	-63499	No	-35.6	149.4	15	4.1964	Si
2148 Prosp.A	Orizzontale	SLE QP 2	-14139	-63352	No	-35.5	149.4	15	4.205	Si
1958 Prosp.A	Orizzontale	SLE QP 2	-9577	-59879	No	-35.5	149.4	15	4.211	Si
2047 Prosp.A	Orizzontale	SLE QP 2	-8768	-59860	No	-35.4	149.4	15	4.2233	Si
2156 Prosp.A	Orizzontale	SLE RA 5	-14533	-66565	No	-37.3	199.2	15	5.3409	Si

Verifiche SLE tensione acciaio D.M. 17-01-18 §4.1.2.2.5.2

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σf	σf limite	Es/Ec	c.s.	Verifica
2047 Prosp.A	Orizzontale	SLE RA 1	-9252	-56362	No	-475.9	3600	15	7.564	Si
1958 Prosp.A	Orizzontale	SLE RA 1	-9971	-56372	No	-475.3	3600	15	7.5745	Si
2156 Prosp.A	Orizzontale	SLE RA 1	-14379	-40792	No	-314.7	3600	15	11.4392	Si
2148 Prosp.A	Orizzontale	SLE RA 1	-14112	-40678	No	-314	3600	15	11.4632	Si
1966 Prosp.A	Orizzontale	SLE RA 1	-23516	-67179	No	-277.2	3600	15	12.9869	Si

Verifica diametro massimo D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Spessore	Φ	Φ max	Verifica
1958 Prosp.A	Orizzontale	30	1.6	3	Si
5696 Prosp.A	Verticale	30	1.6	3	Si
5696 Prosp.A	Orizzontale	30	1.6	3	Si
5692 Prosp.A	Verticale	30	1.6	3	Si
5692 Prosp.A	Orizzontale	30	1.6	3	Si

Verifica passo massimo per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Passo	Passo max.	Verifica
2901 Prosp.A	Verticale	26.8	30	Si
3073 Prosp.A	Verticale	26.8	30	Si
3066 Prosp.A	Verticale	26.8	30	Si
3053 Prosp.A	Verticale	26.8	30	Si
3035 Prosp.A	Verticale	26.8	30	Si

Verifica passo massimo EN1992-1-1:2008 §9.6.2(3) - EN1992-1-1:2008 §9.6.3(2)

Descrizione	Dir.	Passo	Passo max.	Verifica
2901 Prosp.A	Verticale	26.8	40	Si
3073 Prosp.A	Verticale	26.8	40	Si
3066 Prosp.A	Verticale	26.8	40	Si
3053 Prosp.A	Verticale	26.8	40	Si
3035 Prosp.A	Verticale	26.8	40	Si

Verifica area minima per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Ac	As,eff	As,min	% min	Verifica
2921 Prosp.A	Orizzontale	3000	11.99	6	0.2	Si
2901 Prosp.A	Orizzontale	3000	12.16	6	0.2	Si
5600 Prosp.A	Orizzontale	3000	14.2	6	0.2	Si
5596 Prosp.A	Orizzontale	3000	14.2	6	0.2	Si
5710 Prosp.A	Orizzontale	3000	14.33	6	0.2	Si

Verifica area minima barre orizzontali EN1992-1-1:2008 §9.6.3(1)

Descrizione	Ac	Ash/Asv,max	% As,vert	As,eff	As,min	% min	Verifica
2143 Prosp.A	2999.98	0.25	1.61	16.08	12.06	0.2	Si
2139 Prosp.A	2999.98	0.25	1.61	16.08	12.06	0.2	Si
2135 Prosp.A	2999.98	0.25	1.61	16.08	12.06	0.2	Si
2131 Prosp.A	2999.98	0.25	1.61	16.08	12.06	0.2	Si
2107 Prosp.A	2999.98	0.25	1.61	16.08	12.06	0.2	Si

Verifica area minima barre verticali EN1992-1-1:2008 §9.6.2(1)

Descrizione	Ac	As,eff	As,min	% min	As,max	% max	Verifica
2921 Prosp.A	3000	11.99	6	0.2	120	4	Si
2901 Prosp.A	3000	12.16	6	0.2	120	4	Si
5600 Prosp.A	3000	14.2	6	0.2	120	4	Si
5596 Prosp.A	3000	14.2	6	0.2	120	4	Si
5714 Prosp.A	3000	14.33	6	0.2	120	4	Si

Verifiche generali

Setto 3

Verifiche condotte secondo D.M. 17-01-18 (N.T.C.)

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Livelli significativi

Descrizione breve	Descrizione	Quota	Spessore
L1	Fondazione	0	60
L2	Piano 1	440	20
L3	Copertura	790	20

Verifiche nei nodi

Sezioni rettangolari

Descrizione	Dir.	Base	Altezza	As,sup	As,inf	c,sup	c,inf
5446 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
5408 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2239 Prosp.A	Orizzontale	100	30	7.24	7.24	5.9	5.9
2032 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
2235 Prosp.A	Orizzontale	100	30	7.24	7.24	5.9	5.9
2024 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
1983 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
2008 Prosp.A	Orizzontale	100	30	15.37	15.37	5.9	5.9
1959 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2048 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2157 Prosp.A	Orizzontale	50	30	12.06	12.06	6.13	6.13
2149 Prosp.A	Orizzontale	50	30	12.06	12.06	6.13	6.13
2268 Prosp.A	Orizzontale	50	30	4.02	4.02	6.25	6.25

Verifiche a flessione SLU D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
5446 Prosp.A	Orizzontale	SLV 1	-532445	3706	-673859	4691	1.2656	Si
5408 Prosp.A	Orizzontale	SLV 3	-531895	3612	-674868	4583	1.2688	Si
2239 Prosp.A	Orizzontale	SLV 1	-727242	-12973	-935586	-16690	1.2865	Si
2032 Prosp.A	Orizzontale	SLV 1	-1305758	-19279	-1679960	-24804	1.2866	Si
2235 Prosp.A	Orizzontale	SLV 3	-727169	-12994	-935932	-16725	1.2871	Si

Verifiche a flessione SLD Resistenza D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
5446 Prosp.A	Orizzontale	SLD 1	-327070	2810	-664134	5705	2.0306	Si
5408 Prosp.A	Orizzontale	SLD 3	-326686	2710	-665885	5525	2.0383	Si
2024 Prosp.A	Orizzontale	SLD 1	-701248	-12260	-1732151	-30284	2.4701	Si
1983 Prosp.A	Orizzontale	SLD 3	-701082	-12259	-1732151	-30288	2.4707	Si
2008 Prosp.A	Orizzontale	SLD 3	-648474	-10132	-1634322	-25535	2.5203	Si

Verifiche a taglio SLU D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
3788 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLV 1	-15175	10291	580645	15263	75026	0	15263	2.5	14.074	1.0058	Si
4663 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLV 3	15174	10081	581077	15263	75026	0	15263	2.5	14.074	1.0059	Si
2970 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLV 1	19567	-36470	711648	19703	74902	0	19703	2.5	15.428	1.007	Si
2966 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLV 3	19523	-37018	714079	19769	74970	0	19769	2.5	15.428	1.0126	Si

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
2966 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLV 1	-15047	-7877	174709	15511	76073	0	15511	2.5	12.064	1.0308	Si

Verifiche a taglio SLD Resistenza D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
3788 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLD 1	-8962	9838	342231	15263	75026	0	15263	2.5	14.074	1.7031	Si
4663 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLD 3	8962	9631	342508	15263	75026	0	15263	2.5	14.074	1.7031	Si
2970 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLD 1	11505	-36532	417498	19711	74909	0	19711	2.5	15.428	1.7131	Si
2966 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLD 3	11479	-37073	418941	19776	74977	0	19776	2.5	15.428	1.7228	Si
2966 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLD 1	-8857	-8218	102543	15555	76119	0	15555	2.5	12.064	1.7563	Si

Verifiche SLE tensione calcestruzzo D.M. 17-01-18 §4.1.2.2.5.1

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σc	σc limite	Es/Ec	c.s.	Verifica
1959 Prosp.A	Orizzontale	SLE QP 2	-30101	-59045	No	-37.3	149.4	15	4.0014	Si
2048 Prosp.A	Orizzontale	SLE QP 2	-28882	-59032	No	-37.2	149.4	15	4.0172	Si
2157 Prosp.A	Orizzontale	SLE QP 2	-18360	-62585	No	-35.6	149.4	15	4.2005	Si
2149 Prosp.A	Orizzontale	SLE QP 2	-18207	-62469	No	-35.5	149.4	15	4.2099	Si
1959 Prosp.A	Orizzontale	SLE RA 5	-32231	-61799	No	-39.2	199.2	15	5.0867	Si

Verifiche SLE tensione acciaio D.M. 17-01-18 §4.1.2.2.5.2

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σf	σf limite	Es/Ec	c.s.	Verifica
2048 Prosp.A	Orizzontale	SLE RA 1	-25677	-55599	No	-452.3	3600	15	7.9584	Si
1959 Prosp.A	Orizzontale	SLE RA 1	-26856	-55605	No	-451.2	3600	15	7.9792	Si
2157 Prosp.A	Orizzontale	SLE RA 1	-17362	-40222	No	-307.2	3600	15	11.7178	Si
2149 Prosp.A	Orizzontale	SLE RA 1	-18044	-40118	No	-305.7	3600	15	11.7751	Si
2268 Prosp.A	Orizzontale	SLE RA 1	-11930	-30486	No	-268.8	3600	15	13.3933	Si

Verifica diametro massimo D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Spessore	Φ	Φ max	Verifica
1959 Prosp.A	Orizzontale	30	1.6	3	Si
5678 Prosp.A	Orizzontale	30	1.6	3	Si
5673 Prosp.A	Verticale	30	1.6	3	Si
5673 Prosp.A	Orizzontale	30	1.6	3	Si
5669 Prosp.A	Verticale	30	1.6	3	Si

Verifica passo massimo per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Passo	Passo max.	Verifica
3018 Prosp.A	Verticale	26.8	30	Si
2895 Prosp.A	Verticale	26.8	30	Si
2902 Prosp.A	Verticale	26.8	30	Si
2922 Prosp.A	Verticale	26.8	30	Si
2957 Prosp.A	Verticale	26.8	30	Si

Verifica passo massimo EN1992-1-1:2008 §9.6.2(3) - EN1992-1-1:2008 §9.6.3(2)

Descrizione	Dir.	Passo	Passo max.	Verifica
3018 Prosp.A	Verticale	26.8	40	Si
2895 Prosp.A	Verticale	26.8	40	Si
2902 Prosp.A	Verticale	26.8	40	Si
2922 Prosp.A	Verticale	26.8	40	Si
2957 Prosp.A	Verticale	26.8	40	Si

Verifica area minima per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Ac	As,eff	As,min	% min	Verifica
2922 Prosp.A	Orizzontale	3000	12.13	6	0.2	Si
5601 Prosp.A	Orizzontale	3000	14.2	6	0.2	Si
5597 Prosp.A	Orizzontale	3000	14.2	6	0.2	Si
5711 Prosp.A	Orizzontale	3000	14.33	6	0.2	Si
5715 Prosp.A	Orizzontale	3000	14.33	6	0.2	Si

Verifica area minima barre orizzontali EN1992-1-1:2008 §9.6.3(1)

Descrizione	Ac	Ash/Asv,max	% As,vert	As,eff	As,min	% min	Verifica
2144 Prosp.A	2999.98	0.25	1.61	16.08	12.06	0.2	Si
2140 Prosp.A	2999.98	0.25	1.61	16.08	12.06	0.2	Si
2136 Prosp.A	2999.98	0.25	1.61	16.08	12.06	0.2	Si
2132 Prosp.A	2999.98	0.25	1.61	16.08	12.06	0.2	Si
2108 Prosp.A	2999.98	0.25	1.61	16.08	12.06	0.2	Si

Verifica area minima barre verticali EN1992-1-1:2008 §9.6.2(1)

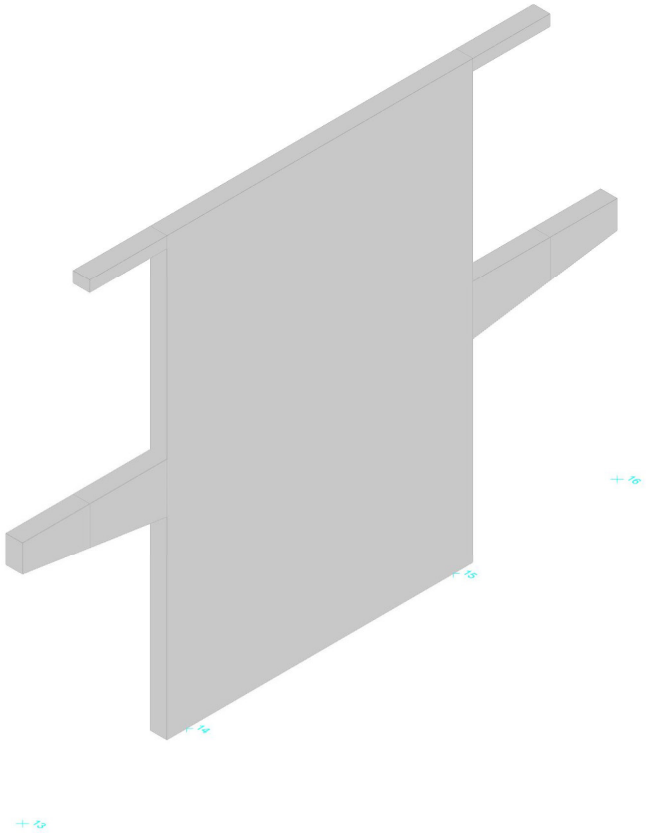
Descrizione	Ac	As,eff	As,min	% min	As,max	% max	Verifica
2922 Prosp.A	3000	12.13	6	0.2	120	4	Si
5597 Prosp.A	3000	14.2	6	0.2	120	4	Si
5601 Prosp.A	3000	14.2	6	0.2	120	4	Si
5715 Prosp.A	3000	14.33	6	0.2	120	4	Si
5711 Prosp.A	3000	14.33	6	0.2	120	4	Si

Verifiche generali

Setto 4

Verifiche condotte secondo D.M. 17-01-18 (N.T.C.)

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Livelli significativi

Descrizione breve	Descrizione	Quota	Spessore
L1	Fondazione	0	60
L2	Piano 1	440	20
L3	Copertura	790	20

Verifiche nei nodi

Sezioni rettangolari

Descrizione	Dir.	Base	Altezza	As,sup	As,inf	c,sup	c,inf
2025 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
1984 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
2033 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
1976 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
1992 Prosp.A	Orizzontale	100	30	15.94	15.94	5.9	5.9
2017 Prosp.A	Orizzontale	100	30	15.94	15.94	5.9	5.9
2000 Prosp.A	Orizzontale	100	30	15.37	15.37	5.9	5.9
1960 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2049 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2732 Prosp.A	Orizzontale	80.53	30	8.04	8.04	6.08	6.08
2731 Prosp.A	Orizzontale	83.15	30	8.04	8.04	6.08	6.08
2104 Prosp.A	Orizzontale	98.47	30	16.08	16.08	5.99	5.99
2103 Prosp.A	Orizzontale	99.15	30	16.08	16.08	5.99	5.99
2150 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08

Verifiche a flessione SLU D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
2025 Prosp.A	Orizzontale	SLV 3	-1157281	853	-1430851	1055	1.2364	Si
1984 Prosp.A	Orizzontale	SLV 1	-1156519	816	-1431270	1010	1.2376	Si
2033 Prosp.A	Orizzontale	SLV 3	-1197955	-4240	-1492305	-5282	1.2457	Si
1976 Prosp.A	Orizzontale	SLV 1	-1195628	-4377	-1494047	-5469	1.2496	Si
1976 Prosp.A	Orizzontale	SLV 15	1261663	-11455	1579625	-14341	1.252	Si

Verifiche a flessione SLD Resistenza D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
1984 Prosp.A	Orizzontale	SLD 13	708383	-6233	1574932	-13858	2.2233	Si
2025 Prosp.A	Orizzontale	SLD 15	707631	-6211	1574678	-13822	2.2253	Si
1992 Prosp.A	Orizzontale	SLD 13	694448	-6712	1577466	-15246	2.2715	Si
2017 Prosp.A	Orizzontale	SLD 15	693269	-6732	1578221	-15325	2.2765	Si
2000 Prosp.A	Orizzontale	SLD 13	683762	-7674	1556835	-17472	2.2769	Si

Verifiche a taglio SLU D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
3050 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLV 13	13522	-2899	-609728	15846	70459	0	15846	2.5	16.085	1.1719	Si

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
3084 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLV 15	13409	-862	-518922	15832	70217	0	15832	2.5	16.81	1.1807	Si
2886 Prosp.A	Verticale	25.2	100	Non necessaria	0	SLV 13	-13165	-11604	-105880	15700	75148	0	15700	2.5	11.702	1.1926	Si
2871 Prosp.A	Verticale	25.1	100	Non necessaria	0	SLV 15	11188	-11577	-85800	14773	74839	0	14773	2.5	9.632	1.3204	Si
5565 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLV 13	9711	4444	-94440	13383	75026	0	13383	2.5	8.042	1.3781	Si

Verifiche a taglio SLD Resistenza D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
3050 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLD 13	10009	-3375	-398722	15904	70518	0	15904	2.5	16.085	1.5889	Si
3084 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLD 15	9845	-1412	-335212	15899	70285	0	15899	2.5	16.81	1.6149	Si
2886 Prosp.A	Verticale	25.2	100	Non necessaria	0	SLD 13	-9222	-10889	-74481	15610	75054	0	15610	2.5	11.702	1.6927	Si
2871 Prosp.A	Verticale	25.1	100	Non necessaria	0	SLD 15	7833	-10845	-59801	14681	74744	0	14681	2.5	9.632	1.8744	Si
5565 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLD 13	6861	3935	-53506	13383	75026	0	13383	2.5	8.042	1.9505	Si

Verifiche SLE tensione calcestruzzo D.M. 17-01-18 §4.1.2.2.5.1

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σc	σc limite	Es/Ec	c.s.	Verifica
1960 Prosp.A	Orizzontale	SLE QP 2	30541	-41258	No	-27.2	149.4	15	5.4984	Si
2049 Prosp.A	Orizzontale	SLE QP 2	30267	-41126	No	-27.1	149.4	15	5.5202	Si
2732 Prosp.A	Orizzontale	SLE QP 2	-209556	-20740	No	-23.5	149.4	15	6.3603	Si
2731 Prosp.A	Orizzontale	SLE QP 2	-216007	-21105	No	-23.4	149.4	15	6.3796	Si
1960 Prosp.A	Orizzontale	SLE RA 5	33268	-43291	No	-28.6	199.2	15	6.953	Si

Verifiche SLE tensione acciaio D.M. 17-01-18 §4.1.2.2.5.2

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σf	σf limite	Es/Ec	c.s.	Verifica
1960 Prosp.A	Orizzontale	SLE RA 1	25614	-38685	No	-306.7	3600	15	11.7375	Si
2049 Prosp.A	Orizzontale	SLE RA 1	25361	-38558	No	-305.9	3600	15	11.7696	Si
2104 Prosp.A	Orizzontale	SLE RA 1	19590	-58132	No	-243.5	3600	15	14.7854	Si
2103 Prosp.A	Orizzontale	SLE RA 1	19786	-58132	No	-241.9	3600	15	14.88	Si
2150 Prosp.A	Orizzontale	SLE RA 1	10791	-28670	No	-235.8	3600	15	15.2673	Si

Verifica diametro massimo D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Spessore	Φ	Φ max	Verifica
1960 Prosp.A	Orizzontale	30	1.6	3	Si
5664 Prosp.A	Orizzontale	30	1.6	3	Si
5661 Prosp.A	Verticale	30	1.6	3	Si
5661 Prosp.A	Orizzontale	30	1.6	3	Si
5658 Prosp.A	Verticale	30	1.6	3	Si

Verifica passo massimo per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Passo	Passo max.	Verifica
3047 Prosp.A	Verticale	26.8	30	Si
3077 Prosp.A	Verticale	26.8	30	Si
2933 Prosp.A	Verticale	26.8	30	Si
4400 Prosp.A	Verticale	26.8	30	Si
2934 Prosp.A	Verticale	26.8	30	Si

Verifica passo massimo EN1992-1-1:2008 §9.6.2(3) - EN1992-1-1:2008 §9.6.3(2)

Descrizione	Dir.	Passo	Passo max.	Verifica
3047 Prosp.A	Verticale	26.8	40	Si
3077 Prosp.A	Verticale	26.8	40	Si
2933 Prosp.A	Verticale	26.8	40	Si
4400 Prosp.A	Verticale	26.8	40	Si
2934 Prosp.A	Verticale	26.8	40	Si

Verifica area minima per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Ac	As,eff	As,min	% min	Verifica
5553 Prosp.A	Orizzontale	3000	14.48	6	0.2	Si
2435 Prosp.A	Orizzontale	3000	14.48	6	0.2	Si
5808 Prosp.A	Verticale	3000	14.56	6	0.2	Si
5811 Prosp.A	Verticale	3000	14.56	6	0.2	Si
5830 Prosp.A	Verticale	3000	14.57	6	0.2	Si

Verifica area minima barre orizzontali EN1992-1-1:2008 §9.6.3(1)

Descrizione	Ac	Ash/Asv,max	% As,vert	As,eff	As,min	% min	Verifica
5568 Prosp.A	3000	0.25	1.15	16.08	8.62	0.2	Si
5571 Prosp.A	3000	0.25	1.15	16.08	8.6	0.2	Si
2223 Prosp.A	3000	0.25	1.11	16.08	8.34	0.2	Si
2218 Prosp.A	3000	0.25	1.1	16.08	8.25	0.2	Si
2104 Prosp.A	2960.38	0.25	1.09	16.08	8.06	0.2	Si

Verifica area minima barre verticali EN1992-1-1:2008 §9.6.2(1)

Descrizione	Ac	As,eff	As,min	% min	As,max	% max	Verifica
5553 Prosp.A	3000	14.48	6	0.2	120	4	Si
2435 Prosp.A	3000	14.48	6	0.2	120	4	Si
5550 Prosp.A	3000	14.63	6	0.2	120	4	Si
2317 Prosp.A	3000	14.7	6	0.2	120	4	Si
5646 Prosp.A	3000	14.76	6	0.2	120	4	Si

Verifiche generali

Setto 5

Verifiche condotte secondo D.M. 17-01-18 (N.T.C.)

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Livelli significativi

Descrizione breve	Descrizione	Quota	Spessore
L1	Fondazione	0	60
L2	Piano 1	440	20
L3	Copertura	790	20

Verifiche nei nodi

Sezioni rettangolari

Descrizione	Dir.	Base	Altezza	As,sup	As,inf	c,sup	c,inf
2034 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
1977 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
1985 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
2026 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
2010 Prosp.A	Orizzontale	100	30	15.37	15.37	5.9	5.9
1961 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2050 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2736 Prosp.A	Orizzontale	80.88	30	8.04	8.04	6.08	6.08
2729 Prosp.A	Orizzontale	83.61	30	8.04	8.04	6.08	6.08
2106 Prosp.A	Orizzontale	99.17	30	16.08	16.08	5.99	5.99
2159 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2151 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08

Verifiche a flessione SLU D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
2034 Prosp.A	Orizzontale	SLV 1	-1292832	-11174	-1572389	-13590	1.2162	Si
1977 Prosp.A	Orizzontale	SLV 3	-1290634	-11204	-1573025	-13655	1.2188	Si
1985 Prosp.A	Orizzontale	SLV 3	-1256026	-8654	-1544001	-10638	1.2293	Si
2026 Prosp.A	Orizzontale	SLV 1	-1256222	-8682	-1544260	-10672	1.2293	Si
2010 Prosp.A	Orizzontale	SLV 3	-1208465	-9749	-1505459	-12145	1.2458	Si

Verifiche a flessione SLD Resistenza D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
1985 Prosp.A	Orizzontale	SLD 3	-734481	-6631	-1578865	-14255	2.1496	Si
2026 Prosp.A	Orizzontale	SLD 1	-734560	-6656	-1579372	-14311	2.1501	Si
2034 Prosp.A	Orizzontale	SLD 1	-755516	-9712	-1644945	-21146	2.1772	Si
1977 Prosp.A	Orizzontale	SLD 3	-753704	-9755	-1646522	-21311	2.1846	Si
2010 Prosp.A	Orizzontale	SLD 3	-706644	-7720	-1551887	-16954	2.1961	Si

Verifiche a taglio SLU D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
3051 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLV 1	-13777	-2808	630533	15836	70448	0	15836	2.5	16.085	1.1495	Si
3086 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLV 3	-13215	-844	523552	15823	70214	0	15823	2.5	16.788	1.1974	Si

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
2868 Prosp.A	Verticale	25.1	100	Non necessaria	0	SLV 1	-11407	-12050	97621	14881	74918	0	14881	2.5	9.734	1.3045	Si
5560 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLV 3	9756	4481	99463	13383	75026	0	13383	2.5	8.042	1.3717	Si
5563 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLV 1	-9684	5352	120468	13383	75026	0	13383	2.5	8.042	1.382	Si

Verifiche a taglio SLD Resistenza D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
3051 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLD 1	-10207	-3318	415289	15897	70511	0	15897	2.5	16.085	1.5575	Si
3086 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLD 3	-9717	-1369	343916	15886	70280	0	15886	2.5	16.788	1.6349	Si
2868 Prosp.A	Verticale	25.1	100	Non necessaria	0	SLD 1	-8008	-11188	68473	14773	74806	0	14773	2.5	9.734	1.8448	Si
5560 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLD 3	6909	3975	57215	13383	75026	0	13383	2.5	8.042	1.9369	Si
5563 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLD 1	-6853	4620	71511	13383	75026	0	13383	2.5	8.042	1.9528	Si

Verifiche SLE tensione calcestruzzo D.M. 17-01-18 §4.1.2.2.5.1

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σc	σc limite	Es/Ec	c.s.	Verifica
1961 Prosp.A	Orizzontale	SLE QP 2	-44160	-41119	No	-28.6	149.4	15	5.2161	Si
2050 Prosp.A	Orizzontale	SLE QP 2	-43919	-41091	No	-28.6	149.4	15	5.2239	Si
2736 Prosp.A	Orizzontale	SLE QP 2	225048	-20518	No	-24.5	149.4	15	6.1057	Si
2729 Prosp.A	Orizzontale	SLE QP 2	227614	-21501	No	-24.3	149.4	15	6.152	Si
1961 Prosp.A	Orizzontale	SLE RA 5	-44007	-43135	No	-29.8	199.2	15	6.6884	Si

Verifiche SLE tensione acciaio D.M. 17-01-18 §4.1.2.2.5.2

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σf	σf limite	Es/Ec	c.s.	Verifica
1961 Prosp.A	Orizzontale	SLE RA 1	-44119	-38570	No	-286.5	3600	15	12.5637	Si
2050 Prosp.A	Orizzontale	SLE RA 1	-43968	-38548	No	-286.5	3600	15	12.5652	Si
2106 Prosp.A	Orizzontale	SLE RA 1	-47901	-58286	No	-227.9	3600	15	15.7944	Si
2159 Prosp.A	Orizzontale	SLE RA 1	-24874	-28641	No	-221	3600	15	16.293	Si
2151 Prosp.A	Orizzontale	SLE RA 1	-25679	-28572	No	-219.5	3600	15	16.3992	Si

Verifica diametro massimo D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Spessore	Φ	Φ max	Verifica
1961 Prosp.A	Orizzontale	30	1.6	3	Si
5662 Prosp.A	Orizzontale	30	1.6	3	Si
5659 Prosp.A	Verticale	30	1.6	3	Si
5659 Prosp.A	Orizzontale	30	1.6	3	Si
5656 Prosp.A	Verticale	30	1.6	3	Si

Verifica passo massimo per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Passo	Passo max.	Verifica
3049 Prosp.A	Verticale	26.8	30	Si
3079 Prosp.A	Verticale	26.8	30	Si
2932 Prosp.A	Verticale	26.8	30	Si
4316 Prosp.A	Verticale	26.8	30	Si
2936 Prosp.A	Verticale	26.8	30	Si

Verifica passo massimo EN1992-1-1:2008 §9.6.2(3) - EN1992-1-1:2008 §9.6.3(2)

Descrizione	Dir.	Passo	Passo max.	Verifica
3049 Prosp.A	Verticale	26.8	40	Si
3079 Prosp.A	Verticale	26.8	40	Si
2932 Prosp.A	Verticale	26.8	40	Si
4316 Prosp.A	Verticale	26.8	40	Si
2936 Prosp.A	Verticale	26.8	40	Si

Verifica area minima per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Ac	As,eff	As,min	% min	Verifica
5548 Prosp.A	Orizzontale	3000	14.48	6	0.2	Si
2444 Prosp.A	Orizzontale	3000	14.54	6	0.2	Si
5806 Prosp.A	Verticale	3000	14.56	6	0.2	Si
5809 Prosp.A	Verticale	3000	14.56	6	0.2	Si
5831 Prosp.A	Verticale	3000	14.57	6	0.2	Si

Verifica area minima barre orizzontali EN1992-1-1:2008 §9.6.3(1)

Descrizione	Ac	Ash/Asv,max	% As,vert	As,eff	As,min	% min	Verifica
5569 Prosp.A	3000	0.25	1.15	16.08	8.65	0.2	Si
5566 Prosp.A	3000	0.25	1.15	16.08	8.62	0.2	Si
2220 Prosp.A	3000	0.25	1.11	16.08	8.31	0.2	Si
2225 Prosp.A	3000	0.25	1.09	16.08	8.18	0.2	Si
1969 Prosp.A	1500	0.25	1.07	8.04	4.02	0.2	Si

Verifica area minima barre verticali EN1992-1-1:2008 §9.6.2(1)

Descrizione	Ac	As,eff	As,min	% min	As,max	% max	Verifica
5548 Prosp.A	3000	14.48	6	0.2	120	4	Si
2444 Prosp.A	3000	14.54	6	0.2	120	4	Si
5551 Prosp.A	3000	14.67	6	0.2	120	4	Si
2333 Prosp.A	3000	14.75	6	0.2	120	4	Si
5641 Prosp.A	3000	14.76	6	0.2	120	4	Si

Verifiche generali

Setto 6

Verifiche condotte secondo D.M. 17-01-18 (N.T.C.)

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Livelli significativi

Descrizione breve	Descrizione	Quota	Spessore
L1	Fondazione	0	60
L2	Piano 1	440	20
L3	Copertura	790	20

Verifiche nei nodi

Sezioni rettangolari

Descrizione	Dir.	Base	Altezza	As,sup	As,inf	c,sup	c,inf
1978 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
2035 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
2027 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
1986 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
2011 Prosp.A	Orizzontale	100	30	15.37	15.37	5.9	5.9
2002 Prosp.A	Orizzontale	100	30	15.37	15.37	5.9	5.9
2160 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2152 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
1962 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2051 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08

Verifiche a flessione SLU D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
1978 Prosp.A	Orizzontale	SLV 3	-1263608	-18330	-1675093	-24300	1.3256	Si
2035 Prosp.A	Orizzontale	SLV 1	-1263183	-18351	-1675568	-24342	1.3265	Si
2027 Prosp.A	Orizzontale	SLV 1	-1195471	-11634	-1590605	-15479	1.3305	Si
1986 Prosp.A	Orizzontale	SLV 3	-1195218	-11629	-1590605	-15476	1.3308	Si
1986 Prosp.A	Orizzontale	SLV 13	1199776	-13357	1614557	-17974	1.3457	Si

Verifiche a flessione SLD Resistenza D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
2027 Prosp.A	Orizzontale	SLD 1	-669630	-12014	-1741284	-31241	2.6004	Si
1986 Prosp.A	Orizzontale	SLD 3	-669466	-12006	-1741056	-31223	2.6007	Si
2011 Prosp.A	Orizzontale	SLD 1	-625138	-9933	-1639239	-26047	2.6222	Si
1986 Prosp.A	Orizzontale	SLD 13	674024	-12980	1767794	-34043	2.6227	Si
2002 Prosp.A	Orizzontale	SLD 3	-625134	-9947	-1639589	-26089	2.6228	Si

Verifiche a taglio SLU D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
3008 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLV 13	-15680	-21571	-807097	18088	72778	0	18088	2.5	16.085	1.1536	Si
3012 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLV 15	-15631	-25176	-797674	18521	73226	0	18521	2.5	16.085	1.1849	Si
5356 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLV 13	12438	-1445	-36678	15697	70535	0	15697	2.5	16.085	1.262	Si

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
5352 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLV 15	12425	-1575	-37059	15713	70552	0	15713	2.5	16.085	1.2645	Si
3012 Prosp.A	Verticale	25.1	90	Non necessaria	0	SLV 15	10156	-5204	77029	13138	66702	0	13138	2.5	9.787	1.2936	Si

Verifiche a taglio SLD Resistenza D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
3008 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLD 13	-9111	-20741	-468675	17989	72675	0	17989	2.5	16.085	1.9743	Si
3012 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLD 15	-9074	-24279	-463135	18413	73114	0	18413	2.5	16.085	2.0292	Si
5356 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLD 15	7434	-3421	-9150	15935	70782	0	15935	2.5	16.085	2.1437	Si
5352 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLD 13	7426	-3550	-9404	15951	70798	0	15951	2.5	16.085	2.1478	Si
3012 Prosp.A	Verticale	25.1	90	Non necessaria	0	SLD 15	5850	-5332	48239	13154	66718	0	13154	2.5	9.787	2.2484	Si

Verifiche SLE tensione calcestruzzo D.M. 17-01-18 §4.1.2.2.5.1

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σc	σc limite	Es/Ec	c.s.	Verifica
2160 Prosp.A	Orizzontale	SLE QP 2	5643	-62549	No	-36.6	149.4	15	4.086	Si
2152 Prosp.A	Orizzontale	SLE QP 2	5623	-62469	No	-36.5	149.4	15	4.0914	Si
1962 Prosp.A	Orizzontale	SLE QP 2	12703	-59083	No	-35.4	149.4	15	4.223	Si
2051 Prosp.A	Orizzontale	SLE QP 2	11240	-59044	No	-35.2	149.4	15	4.2457	Si
2160 Prosp.A	Orizzontale	SLE QP 1	-3070	-58734	No	-34.1	149.4	15	4.3838	Si

Verifiche SLE tensione acciaio D.M. 17-01-18 §4.1.2.2.5.2

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σf	σf limite	Es/Ec	c.s.	Verifica
1962 Prosp.A	Orizzontale	SLE RA 1	4218	-55587	No	-474.5	3600	15	7.5874	Si
2160 Prosp.A	Orizzontale	SLE RA 3	5699	-43972	No	-372.9	3600	15	9.6543	Si
2152 Prosp.A	Orizzontale	SLE RA 3	7097	-43863	No	-370.5	3600	15	9.7166	Si
2160 Prosp.A	Orizzontale	SLE RA 1	-2575	-40214	No	-343.8	3600	15	10.4726	Si
2152 Prosp.A	Orizzontale	SLE RA 1	-3436	-40125	No	-342.1	3600	15	10.5236	Si

Verifica diametro massimo D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Spessore	Φ	Φ max	Verifica
1962 Prosp.A	Orizzontale	30	1.6	3	Si
5712 Prosp.A	Verticale	30	1.6	3	Si
5712 Prosp.A	Orizzontale	30	1.6	3	Si
5698 Prosp.A	Verticale	30	1.6	3	Si
5698 Prosp.A	Orizzontale	30	1.6	3	Si

Verifica passo massimo per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Passo	Passo max.	Verifica
3032 Prosp.A	Verticale	26.8	30	Si
2987 Prosp.A	Verticale	26.8	30	Si
3075 Prosp.A	Verticale	26.8	30	Si
2979 Prosp.A	Verticale	26.8	30	Si
2999 Prosp.A	Verticale	26.8	30	Si

Verifica passo massimo EN1992-1-1:2008 §9.6.2(3) - EN1992-1-1:2008 §9.6.3(2)

Descrizione	Dir.	Passo	Passo max.	Verifica
3032 Prosp.A	Verticale	26.8	40	Si
2987 Prosp.A	Verticale	26.8	40	Si
3075 Prosp.A	Verticale	26.8	40	Si
2979 Prosp.A	Verticale	26.8	40	Si
2999 Prosp.A	Verticale	26.8	40	Si

Verifica area minima per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Ac	As,eff	As,min	% min	Verifica
2923 Prosp.A	Orizzontale	3000	11.99	6	0.2	Si
2903 Prosp.A	Orizzontale	3000	12.16	6	0.2	Si
5598 Prosp.A	Orizzontale	3000	14.2	6	0.2	Si
5602 Prosp.A	Orizzontale	3000	14.2	6	0.2	Si
5712 Prosp.A	Orizzontale	3000	14.33	6	0.2	Si

Verifica area minima barre orizzontali EN1992-1-1:2008 §9.6.3(1)

Descrizione	Ac	Ash/Asv,max	% As,vert	As,eff	As,min	% min	Verifica
1970 Prosp.A	1500	0.25	1.07	8.04	4.02	0.2	Si
1978 Prosp.A	1500	0.25	1.07	8.04	4.02	0.2	Si
1986 Prosp.A	1500	0.25	1.07	8.04	4.02	0.2	Si
6056 Prosp.A	3000	0.25	1.07	16.08	8.04	0.2	Si
6060 Prosp.A	3000	0.25	1.07	16.08	8.04	0.2	Si

Verifica area minima barre verticali EN1992-1-1:2008 §9.6.2(1)

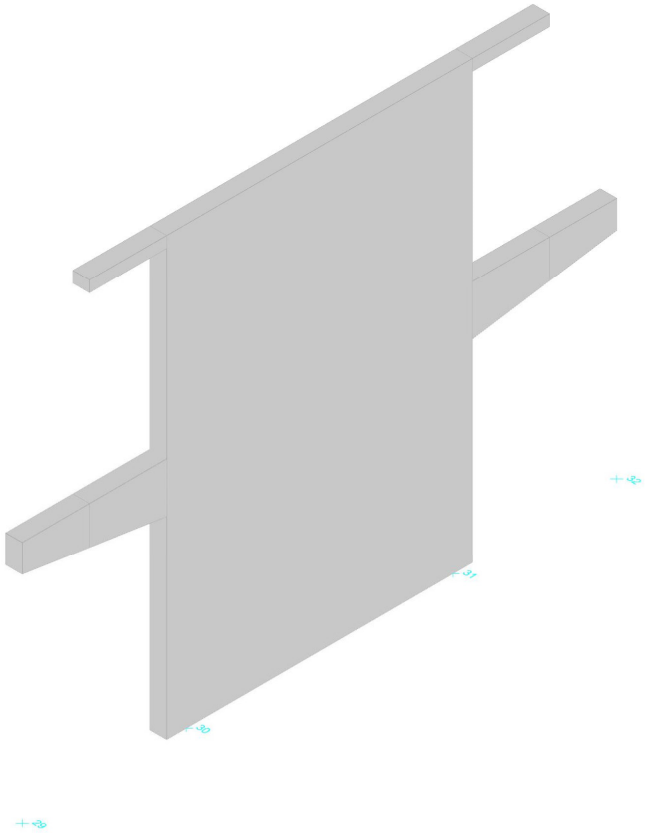
Descrizione	Ac	As,eff	As,min	% min	As,max	% max	Verifica
2923 Prosp.A	3000	11.99	6	0.2	120	4	Si
2903 Prosp.A	3000	12.16	6	0.2	120	4	Si
5602 Prosp.A	3000	14.2	6	0.2	120	4	Si
5598 Prosp.A	3000	14.2	6	0.2	120	4	Si
5716 Prosp.A	3000	14.33	6	0.2	120	4	Si

Verifiche generali

Setto 8

Verifiche condotte secondo D.M. 17-01-18 (N.T.C.)

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Livelli significativi

Descrizione breve	Descrizione	Quota	Spessore
L1	Fondazione	0	60
L2	Piano 1	440	20
L3	Copertura	790	20

Verifiche nei nodi

Sezioni rettangolari

Descrizione	Dir.	Base	Altezza	As,sup	As,inf	c,sup	c,inf
2799 Prosp.A	Orizzontale	50	30	4.29	4.29	6.33	6.33
2807 Prosp.A	Orizzontale	50	30	4.29	4.29	6.33	6.33
2004 Prosp.A	Orizzontale	100	30	15.37	15.37	5.9	5.9
2013 Prosp.A	Orizzontale	100	30	15.37	15.37	5.9	5.9
1988 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
6203 Prosp.A	Orizzontale	50	30	5.83	5.83	6.07	6.07
6195 Prosp.A	Orizzontale	50	30	5.83	5.83	6.07	6.07
2021 Prosp.A	Orizzontale	100	30	15.94	15.94	5.9	5.9
2162 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2154 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
1964 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2053 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
5451 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
5413 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08

Verifiche a flessione SLU D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
2799 Prosp.A	Orizzontale	SLV 15	-537633	-20858	-704097	-27316	1.3096	Si
2807 Prosp.A	Orizzontale	SLV 13	-537405	-20862	-704356	-27343	1.3107	Si
2004 Prosp.A	Orizzontale	SLV 13	1154157	-10562	1522739	-13935	1.3194	Si
2013 Prosp.A	Orizzontale	SLV 15	1154128	-10563	1522739	-13937	1.3194	Si
1988 Prosp.A	Orizzontale	SLV 13	1198146	-12685	1605121	-16993	1.3397	Si

Verifiche a flessione SLD Resistenza D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
6203 Prosp.A	Orizzontale	SLD 15	-289307	-3487	-628589	-7577	2.1727	Si
6195 Prosp.A	Orizzontale	SLD 13	-286700	-3386	-626910	-7404	2.1866	Si
2013 Prosp.A	Orizzontale	SLD 15	696214	-10003	1611518	-23154	2.3147	Si
2004 Prosp.A	Orizzontale	SLD 13	696180	-10002	1611518	-23153	2.3148	Si
2021 Prosp.A	Orizzontale	SLD 15	706529	-10270	1663051	-24173	2.3538	Si

Verifiche a taglio SLU D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
2799 Prosp.A	Orizzontale	23.7	50	Non necessaria	0	SLV 15	-7493	-20858	-537633	8815	37105	0	8815	2.5	4.288	1.1764	Si

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
2807 Prosp.A	Orizzontale	23.7	50	Non necessaria	0	SLV 13	-7489	-20862	-537405	8815	37106	0	8815	2.5	4.288	1.1771	Si
5514 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLV 15	9402	7724	129321	13383	75026	0	13383	2.5	9.059	1.4234	Si
5515 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLV 13	-9359	7803	130988	13598	75026	0	13598	2.5	9.953	1.4529	Si
5516 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLV 15	-8839	80	297889	15077	70121	0	15077	2.5	14.803	1.7057	Si

Verifiche a taglio SLD Resistenza D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
2799 Prosp.A	Orizzontale	23.7	50	Non necessaria	0	SLD 15	-4747	-20099	-339662	8725	37012	0	8725	2.5	4.288	1.8381	Si
2807 Prosp.A	Orizzontale	23.7	50	Non necessaria	0	SLD 13	-4743	-20104	-339469	8725	37013	0	8725	2.5	4.288	1.8396	Si
5514 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLD 15	7074	6455	100002	13383	75026	0	13383	2.5	9.059	1.8918	Si
5515 Prosp.A	Verticale	25.7	100	Non necessaria	0	SLD 13	-7041	6520	101248	13598	75026	0	13598	2.5	9.953	1.9312	Si
5516 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLD 15	-6635	62	240486	15077	70121	0	15077	2.5	14.803	2.2723	Si

Verifiche SLE tensione calcestruzzo D.M. 17-01-18 §4.1.2.2.5.1

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σc	σc limite	Es/Ec	c.s.	Verifica
2162 Prosp.A	Orizzontale	SLE QP 2	37384	-40238	No	-27.4	149.4	15	5.4595	Si
2154 Prosp.A	Orizzontale	SLE QP 2	37549	-40195	No	-27.4	149.4	15	5.4607	Si
1964 Prosp.A	Orizzontale	SLE QP 2	44007	-37398	No	-26.5	149.4	15	5.6402	Si
2053 Prosp.A	Orizzontale	SLE QP 2	43403	-37424	No	-26.4	149.4	15	5.6518	Si
2799 Prosp.A	Orizzontale	SLE QP 2	-86528	-19122	No	-22.4	149.4	15	6.6807	Si

Verifiche SLE tensione acciaio D.M. 17-01-18 §4.1.2.2.5.2

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σf	σf limite	Es/Ec	c.s.	Verifica
2053 Prosp.A	Orizzontale	SLE RA 1	47037	-33745	No	-242	3600	15	14.8788	Si
1964 Prosp.A	Orizzontale	SLE RA 1	47597	-33723	No	-241.2	3600	15	14.9263	Si
5451 Prosp.A	Orizzontale	SLE RA 5	162410	2287	No	188	3600	15	19.1504	Si
5413 Prosp.A	Orizzontale	SLE RA 5	161821	2298	No	187.5	3600	15	19.203	Si
2162 Prosp.A	Orizzontale	SLE RA 1	35560	-25398	No	-181.9	3600	15	19.7869	Si

Verifica diametro massimo D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Spessore	Φ	Φ max	Verifica
1964 Prosp.A	Orizzontale	30	1.6	3	Si
5704 Prosp.A	Verticale	30	1.6	3	Si
5704 Prosp.A	Orizzontale	30	1.6	3	Si
5703 Prosp.A	Verticale	30	1.6	3	Si
5703 Prosp.A	Orizzontale	30	1.6	3	Si

Verifica passo massimo per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Passo	Passo max.	Verifica
2874 Prosp.A	Verticale	26.8	30	Si
4001 Prosp.A	Verticale	26.8	30	Si
2873 Prosp.A	Verticale	26.8	30	Si
4093 Prosp.A	Verticale	26.8	30	Si
2872 Prosp.A	Verticale	26.8	30	Si

Verifica passo massimo EN1992-1-1:2008 §9.6.2(3) - EN1992-1-1:2008 §9.6.3(2)

Descrizione	Dir.	Passo	Passo max.	Verifica
2874 Prosp.A	Verticale	26.8	40	Si
4001 Prosp.A	Verticale	26.8	40	Si
2873 Prosp.A	Verticale	26.8	40	Si
4093 Prosp.A	Verticale	26.8	40	Si
2872 Prosp.A	Verticale	26.8	40	Si

Verifica area minima per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Ac	As,eff	As,min	% min	Verifica
2528 Prosp.A	Orizzontale	3000	14.35	6	0.2	Si
2529 Prosp.A	Orizzontale	3000	14.35	6	0.2	Si
2719 Prosp.A	Orizzontale	3000	14.35	6	0.2	Si
2718 Prosp.A	Orizzontale	3000	14.35	6	0.2	Si
5797 Prosp.A	Orizzontale	3000	14.39	6	0.2	Si

Verifica area minima barre orizzontali EN1992-1-1:2008 §9.6.3(1)

Descrizione	Ac	Ash/Asv,max	% As,vert	As,eff	As,min	% min	Verifica
5514 Prosp.A	3000	0.25	1.27	18.12	9.5	0.2	Si
6052 Prosp.A	3000	0.25	1.1	16.08	8.24	0.2	Si
5515 Prosp.A	3000	0.25	1.35	19.91	10.1	0.2	Si
6053 Prosp.A	3000	0.25	1.08	16.08	8.09	0.2	Si
1972 Prosp.A	1500	0.25	1.07	8.04	4.02	0.2	Si

Verifica area minima barre verticali EN1992-1-1:2008 §9.6.2(1)

Descrizione	Ac	As,eff	As,min	% min	As,max	% max	Verifica
2528 Prosp.A	3000	14.35	6	0.2	120	4	Si
2529 Prosp.A	3000	14.35	6	0.2	120	4	Si
2719 Prosp.A	3000	14.35	6	0.2	120	4	Si
2718 Prosp.A	3000	14.35	6	0.2	120	4	Si
5797 Prosp.A	3000	14.39	6	0.2	120	4	Si

Verifiche generali

Setto 07

Verifiche condotte secondo D.M. 17-01-18 (N.T.C.)

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Livelli significativi

Descrizione breve	Descrizione	Quota	Spessore
L1	Fondazione	0	60
L2	Piano 1	440	20
L3	Copertura	790	20

Verifiche nei nodi

Sezioni rettangolari

Descrizione	Dir.	Base	Altezza	As,sup	As,inf	c,sup	c,inf
2798 Prosp.A	Orizzontale	50	30	4.29	4.29	6.33	6.33
2028 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
1987 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
2036 Prosp.A	Orizzontale	100	30	16.08	16.08	5.9	5.9
2012 Prosp.A	Orizzontale	100	30	15.37	15.37	5.9	5.9
2003 Prosp.A	Orizzontale	100	30	15.37	15.37	5.9	5.9
1995 Prosp.A	Orizzontale	100	30	15.94	15.94	5.9	5.9
2161 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2153 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
1963 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
2052 Prosp.A	Orizzontale	50	30	8.04	8.04	6.08	6.08
1971 Prosp.A	Orizzontale	100	30	16.08	16.08	5.99	5.99

Verifiche a flessione SLU D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
2798 Prosp.A	Orizzontale	SLV 15	-552613	-17055	-628605	-19401	1.1375	Si
2798 Prosp.A	Orizzontale	SLV 3	557156	-18138	643455	-20947	1.1549	Si
2028 Prosp.A	Orizzontale	SLV 15	1216994	-11918	1591610	-15586	1.3078	Si
1987 Prosp.A	Orizzontale	SLV 13	1216887	-11913	1591610	-15581	1.3079	Si
2036 Prosp.A	Orizzontale	SLV 13	1270484	-18315	1673427	-24123	1.3172	Si

Verifiche a flessione SLD Resistenza D.M. 17-01-18 §4.1.2.3.4.2

Descrizione	Dir.	Comb.	MEd	NEd	MRd	NRd	c.s.	Verifica
1987 Prosp.A	Orizzontale	SLD 13	699542	-12150	1729859	-30044	2.4728	Si
2028 Prosp.A	Orizzontale	SLD 15	699567	-12152	1729974	-30051	2.4729	Si
2012 Prosp.A	Orizzontale	SLD 15	652266	-9717	1621012	-24148	2.4852	Si
2003 Prosp.A	Orizzontale	SLD 13	652272	-9730	1621367	-24187	2.4857	Si
1995 Prosp.A	Orizzontale	SLD 13	669420	-10007	1670757	-24976	2.4958	Si

Verifiche a taglio SLU D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
3009 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLV 13	-14776	-19458	-760948	17835	72516	0	17835	2.5	16.085	1.207	Si
3013 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLV 15	-14767	-22858	-754605	18243	72938	0	18243	2.5	16.085	1.2353	Si

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
3013 Prosp.A	Verticale	25.1	90	Non necessaria	0	SLV 15	9744	-3962	61426	12981	66540	0	12981	2.5	9.787	1.3322	Si
3009 Prosp.A	Verticale	25.1	90	Non necessaria	0	SLV 13	-9739	-4029	58441	12990	66549	0	12990	2.5	9.787	1.3339	Si
5357 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLV 15	11636	-3558	-63319	15951	70799	0	15951	2.5	16.085	1.3709	Si

Verifiche a taglio SLD Resistenza D.M. 17-01-18 §4.1.2.3.5

Descrizione	Dir.	d	bw	Armatura a taglio	Asw/s	Comb.	VEd	NEd	MEd	Vrd,c	Vrcd	Vrsd	VRd	cotg(θ)	Asl	c.s.	Verifica
3009 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLD 13	-8401	-19449	-430662	17833	72514	0	17833	2.5	16.085	2.1227	Si
3013 Prosp.A	Orizzontale	24	100	Non necessaria	0	SLD 15	-8400	-22803	-425805	18236	72931	0	18236	2.5	16.085	2.171	Si
3013 Prosp.A	Verticale	25.1	90	Non necessaria	0	SLD 15	5547	-4236	33351	13016	66576	0	13016	2.5	9.787	2.3465	Si
3009 Prosp.A	Verticale	25.1	90	Non necessaria	0	SLD 13	-5546	-4295	31740	13023	66583	0	13023	2.5	9.787	2.3484	Si
5357 Prosp.A	Orizzontale	24.1	100	Non necessaria	0	SLD 15	6593	-3077	-36295	15893	70739	0	15893	2.5	16.085	2.4107	Si

Verifiche SLE tensione calcestruzzo D.M. 17-01-18 §4.1.2.2.5.1

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σc	σc limite	Es/Ec	c.s.	Verifica
2161 Prosp.A	Orizzontale	SLE QP 2	15343	-60354	No	-36.4	149.4	15	4.1035	Si
2153 Prosp.A	Orizzontale	SLE QP 2	15438	-60239	No	-36.4	149.4	15	4.1098	Si
1963 Prosp.A	Orizzontale	SLE QP 2	16557	-57068	No	-34.7	149.4	15	4.3106	Si
2052 Prosp.A	Orizzontale	SLE QP 2	15722	-57063	No	-34.6	149.4	15	4.3228	Si
2161 Prosp.A	Orizzontale	SLE RA 5	18333	-63242	No	-38.4	199.2	15	5.1866	Si

Verifiche SLE tensione acciaio D.M. 17-01-18 §4.1.2.2.5.2

Descrizione	Dir.	Comb.	MEd	NEd	Sezione fessurata	σf	σf limite	Es/Ec	c.s.	Verifica
2052 Prosp.A	Orizzontale	SLE RA 1	10111	-53777	No	-452.8	3600	15	7.951	Si
1963 Prosp.A	Orizzontale	SLE RA 1	10882	-53774	No	-452	3600	15	7.9654	Si
2161 Prosp.A	Orizzontale	SLE RA 1	12015	-38944	No	-323	3600	15	11.1446	Si
2153 Prosp.A	Orizzontale	SLE RA 1	11500	-38838	No	-322.6	3600	15	11.1577	Si
1971 Prosp.A	Orizzontale	SLE RA 1	24311	-64470	No	-265.1	3600	15	13.5786	Si

Verifica diametro massimo D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Spessore	Φ	Φ max	Verifica
1963 Prosp.A	Orizzontale	30	1.6	3	Si
5675 Prosp.A	Verticale	30	1.6	3	Si
5675 Prosp.A	Orizzontale	30	1.6	3	Si
5671 Prosp.A	Verticale	30	1.6	3	Si
5671 Prosp.A	Orizzontale	30	1.6	3	Si

Verifica passo massimo per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Passo	Passo max.	Verifica
3000 Prosp.A	Verticale	26.8	30	Si
3013 Prosp.A	Verticale	26.8	30	Si
3009 Prosp.A	Verticale	26.8	30	Si
3005 Prosp.A	Verticale	26.8	30	Si
3033 Prosp.A	Verticale	26.8	30	Si

Verifica area minima per verifica di duttilità D.M. 17-01-18 §7.4.6.2.4

Descrizione	Dir.	Ac	As,eff	As,min	% min	Verifica
2924 Prosp.A	Orizzontale	3000	11.99	6	0.2	Si
2904 Prosp.A	Orizzontale	3000	12.16	6	0.2	Si
5599 Prosp.A	Orizzontale	3000	14.2	6	0.2	Si
5603 Prosp.A	Orizzontale	3000	14.2	6	0.2	Si
5713 Prosp.A	Orizzontale	3000	14.33	6	0.2	Si

Verifiche generali

8.5 Verifiche piastre C.A.

Le unità di misura elencate nel capitolo sono in [cm, daN, deg] ove non espressamente specificato.

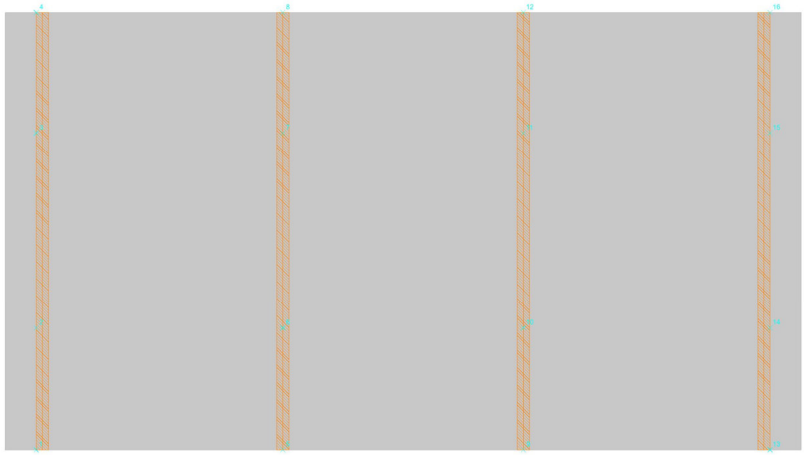
***Nodo**: indice del nodo di verifica.*
***Dir.**: direzione della sezione di verifica.*
***B**: base della sezione rettangolare di verifica. [cm]*
***H**: altezza della sezione rettangolare di verifica. [cm]*
***A. sup.**: area barre armatura superiori. [cm²]*
***C. sup.**: distanza media delle barre superiori dal bordo superiore della sezione. [cm]*
***A. inf.**: area barre armatura inferiori. [cm²]*
***C. inf.**: distanza media delle barre inferiori dal bordo inferiore della sezione. [cm]*
***Comb.**: combinazione di verifica.*
***M**: momento flettente. [daN*cm]*
***N**: sforzo normale. [daN]*
***Mu**: momento flettente ultimo. [daN*cm]*
***Nu**: sforzo normale ultimo. [daN]*
***c.s.**: coefficiente di sicurezza.*
***Verifica**: stato di verifica.*
***σc**: tensione nel calcestruzzo. [daN/cm²]*
***σlim**: tensione limite. [daN/cm²]*
***Es/Ec**: coefficiente di omogenizzazione.*
***σf**: tensione nell'acciaio d'armatura. [daN/cm²]*
***εsm**: deformazione unitaria media delle barre di armatura.*
***Δmax**: distanza massima tra le fessure. [cm]*
***Wd**: valore di calcolo di apertura delle fessure. [cm]*

***Comb.**: combinazione.*
***Fh**: componente orizzontale del carico. [daN]*
***Fv**: componente verticale del carico. [daN]*
***Cnd**: resistenza valutata a breve o lungo termine (BT - LT).*
***Ad**: adesione di progetto. [daN/cm²]*
***Phi**: angolo di attrito di progetto. [deg]*
***RPI**: resistenza passiva laterale unitaria di progetto. [daN/cm²]*
***γR**: coefficiente parziale sulla resistenza di progetto.*
***Rd**: resistenza alla traslazione di progetto. [daN]*
***Ed**: azione di progetto. [daN]*
***Rd/Ed**: coefficiente di sicurezza allo scorrimento.*

Piastra 01 a piano 1

Verifiche condotte secondo D.M. 17-01-18 (N.T.C.)

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Sistema di riferimento e direzioni di armatura

Le coordinate citate nel seguito sono espresse in un sistema di riferimento cartesiano con origine in (43.5; -142; 440), direzione dell'asse X = (1; 0; 0), direzione dell'asse Y = (0; 1; 0).
Le direzioni X/Y di armatura e le sezioni X/Y di verifica sono individuate dagli assi del sistema di riferimento.

Verifiche nei nodi

Verifiche SLU flessione nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	Mu	Nu	c.s.	Verifica
4307	Y	100	20	20.11	4.3	10.05	4.3	SLV 13	-807839	0	-1054749	0	1.3056	Si
4215	Y	100	20	20.11	4.3	10.05	4.3	SLV 15	-807684	0	-1059162	0	1.3114	Si
4123	Y	100	20	20.11	4.3	10.05	4.3	SLV 15	-781985	0	-1052864	0	1.3464	Si
4399	Y	100	20	20.11	4.3	10.05	4.3	SLV 13	-782400	0	-1057298	0	1.3514	Si
4249	Y	100	20	20.11	4.3	10.05	4.3	SLV 1	-753603	0	-1055566	0	1.4007	Si
4156	Y	100	20	20.11	4.3	10.05	4.3	SLV 3	-753636	0	-1058368	0	1.4043	Si
4491	Y	100	20	20.11	4.3	10.05	4.3	SLV 13	-747831	0	-1056626	0	1.4129	Si

Verifiche SLD Resistenza flessione nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	Mu	Nu	c.s.	Verifica
4307	Y	100	20	20.11	4.3	10.05	4.3	SLD 15	-682183	0	-1054749	0	1.5461	Si
4215	Y	100	20	20.11	4.3	10.05	4.3	SLD 13	-681978	0	-1059162	0	1.5531	Si
4123	Y	100	20	20.11	4.3	10.05	4.3	SLD 15	-648219	0	-1052864	0	1.6242	Si
4249	Y	100	20	20.11	4.3	10.05	4.3	SLD 3	-649060	0	-1055566	0	1.6263	Si
4399	Y	100	20	20.11	4.3	10.05	4.3	SLD 13	-648565	0	-1057298	0	1.6302	Si
4156	Y	100	20	20.11	4.3	10.05	4.3	SLD 3	-649078	0	-1058368	0	1.6306	Si
4064	Y	100	20	20.11	4.3	10.05	4.3	SLD 3	-614156	0	-1053652	0	1.7156	Si

Verifiche SLE tensione calcestruzzo nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	σc	σlim	Es/Ec	Verifica
4649	X	100	20	18.1	5.9	18.1	5.9	SLE QP 1	-460891	0	-117	149.4	15	Si
3778	X	100	20	18.1	5.9	18.1	5.9	SLE QP 1	-460501	0	-116.9	149.4	15	Si
4661	X	100	20	18.1	5.9	18.1	5.9	SLE QP 1	-458661	0	-116.5	149.4	15	Si
3786	X	100	20	18.1	5.9	18.1	5.9	SLE QP 1	-458303	0	-116.4	149.4	15	Si
4640	X	100	20	18.1	5.9	18.1	5.9	SLE QP 1	-433956	0	-110.2	149.4	15	Si
3774	X	100	20	18.1	5.9	18.1	5.9	SLE QP 1	-433718	0	-110.1	149.4	15	Si
4665	X	100	20	18.1	5.9	18.1	5.9	SLE QP 1	-432219	0	-109.7	149.4	15	Si

Verifiche SLE tensione acciaio nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	σf	σlim	Es/Ec	Verifica
3773	X	100	20	12.58	5.9	12.53	5.9	SLE RA 4	-341124	0	2205	3600	15	Si
3782	X	100	20	10.05	5.9	10.05	5.9	SLE RA 4	-279196	0	2203.6	3600	15	Si
4638	X	100	20	12.58	5.9	12.53	5.9	SLE RA 4	-340835	0	2203.1	3600	15	Si
4657	X	100	20	10.05	5.9	10.05	5.9	SLE RA 4	-278495	0	2198.1	3600	15	Si
4649	X	100	20	18.1	5.9	18.1	5.9	SLE RA 1	-460891	0	2160.6	3600	15	Si
3778	X	100	20	18.1	5.9	18.1	5.9	SLE RA 1	-460501	0	2158.8	3600	15	Si
4661	X	100	20	18.1	5.9	18.1	5.9	SLE RA 1	-458661	0	2150.2	3600	15	Si

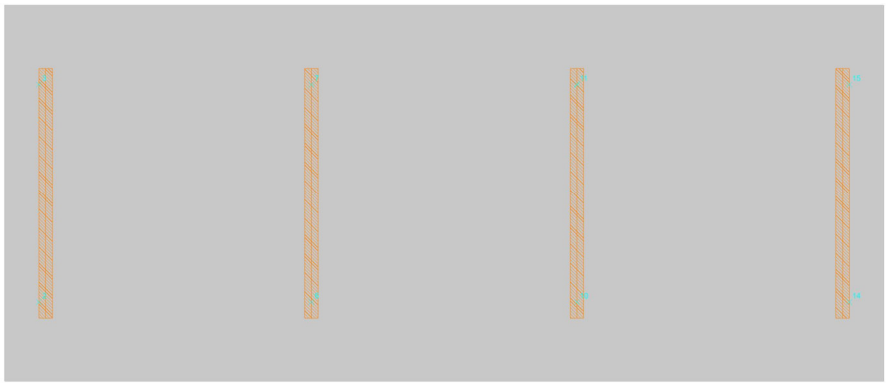
Verifiche SLE fessurazione nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	εsm	Δmax	Wd	Es/Ec	Verifica
3782	X	100	20	10.05	5.9	10.05	5.9	SLE QP 2	-267775	0	0.00103	19.1	0.0196	15	Si
3773	X	100	20	12.58	5.9	12.53	5.9	SLE QP 2	-335328	0	0.00105	18.6	0.0196	15	Si
4638	X	100	20	12.58	5.9	12.53	5.9	SLE QP 2	-335152	0	0.00105	18.6	0.0196	15	Si
4657	X	100	20	10.05	5.9	10.05	5.9	SLE QP 2	-267158	0	0.00102	19.1	0.0195	15	Si
4270	X	100	20	12.53	5.9	12.47	5.9	SLE QP 1	329095	0	0.00104	18.6	0.0194	15	Si
4178	X	100	20	12.53	5.9	12.47	5.9	SLE QP 1	329040	0	0.00104	18.6	0.0194	15	Si
4378	X	100	20	10.05	5.9	10.05	5.9	SLE QP 1	264117	0	0.00101	19.1	0.0193	15	Si

Piastra 01 in Copertura

Verifiche condotte secondo D.M. 17-01-18 (N.T.C.)

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Sistema di riferimento e direzioni di armatura

Le coordinate citate nel seguito sono espresse in un sistema di riferimento cartesiano con origine in (43.5; -20; 790), direzione dell'asse X = (1; 0; 0), direzione dell'asse Y = (0; 1; 0).
Le direzioni X/Y di armatura e le sezioni X/Y di verifica sono individuate dagli assi del sistema di riferimento.

Verifiche nei nodi

Verifiche SLU flessione nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	Mu	Nu	c.s.	Verifica
6664	Y	100	20	10.05	4.3	10.05	4.3	SLV 13	-309940	0	-597782	0	1.9287	Si
7230	Y	100	20	10.05	4.3	10.05	4.3	SLV 15	-309913	0	-597782	0	1.9289	Si
6744	Y	100	20	10.05	4.3	10.05	4.3	SLV 13	-309504	0	-597782	0	1.9314	Si
7150	Y	100	20	10.05	4.3	10.05	4.3	SLV 15	-309493	0	-597782	0	1.9315	Si
7138	Y	100	20	10.05	4.3	10.05	4.3	SLV 3	-290998	0	-597782	0	2.0542	Si
6732	Y	100	20	10.05	4.3	10.05	4.3	SLV 1	-290993	0	-597782	0	2.0543	Si
7218	Y	100	20	10.05	4.3	10.05	4.3	SLV 3	-288801	0	-597782	0	2.0699	Si

Verifiche SLD Resistenza flessione nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	Mu	Nu	c.s.	Verifica
6664	Y	100	20	10.05	4.3	10.05	4.3	SLD 13	-227316	0	-597782	0	2.6297	Si
7230	Y	100	20	10.05	4.3	10.05	4.3	SLD 15	-227288	0	-597782	0	2.6301	Si
6744	Y	100	20	10.05	4.3	10.05	4.3	SLD 13	-227132	0	-597782	0	2.6319	Si
7150	Y	100	20	10.05	4.3	10.05	4.3	SLD 15	-227118	0	-597782	0	2.632	Si
7422	Y	100	20	10.05	4.3	10.05	4.3	SLD 1	-206468	0	-597782	0	2.8953	Si
6470	Y	100	20	10.05	4.3	10.05	4.3	SLD 3	-206433	0	-597782	0	2.8958	Si
6471	Y	100	20	10.05	4.3	10.05	4.3	SLD 13	-206270	0	-597782	0	2.8981	Si

Verifiche SLE tensione calcestruzzo nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	σc	σlim	Es/Ec	Verifica
7421	Y	100	20	10.05	4.3	10.05	4.3	SLE QP 2	-139454	0	-18.2	149.4	15	Si
6469	Y	100	20	10.05	4.3	10.05	4.3	SLE QP 2	-139445	0	-18.2	149.4	15	Si
7422	Y	100	20	10.05	4.3	10.05	4.3	SLE QP 2	-135418	0	-17.7	149.4	15	Si
6470	Y	100	20	10.05	4.3	10.05	4.3	SLE QP 2	-135382	0	-17.7	149.4	15	Si
7501	Y	100	20	10.05	4.3	10.05	4.3	SLE QP 2	-132456	0	-17.3	149.4	15	Si
6389	Y	100	20	10.05	4.3	10.05	4.3	SLE QP 2	-132452	0	-17.3	149.4	15	Si
6471	Y	100	20	10.05	4.3	10.05	4.3	SLE QP 2	-128644	0	-16.8	149.4	15	Si

Verifiche SLE tensione acciaio nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	σf	σlim	Es/Ec	Verifica
7421	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 3	-152739	0	170.8	3600	15	Si
6469	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 3	-152729	0	170.8	3600	15	Si
7422	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 3	-148605	0	166.2	3600	15	Si
6470	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 3	-148568	0	166.1	3600	15	Si
7501	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 3	-145232	0	162.4	3600	15	Si
6389	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 3	-145228	0	162.4	3600	15	Si
7502	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 3	-140106	0	156.7	3600	15	Si

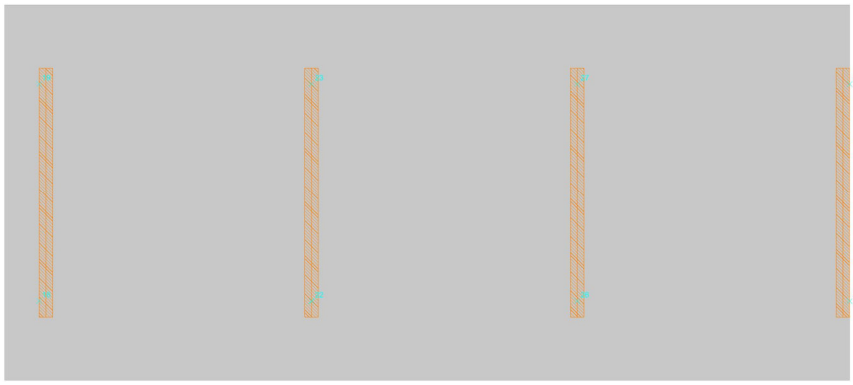
Verifiche SLE fessurazione nei nodi

La piastra non presenta nodi con apertura delle fessure.

Piastra 02 in Copertura

Verifiche condotte secondo D.M. 17-01-18 (N.T.C.)

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Sistema di riferimento e direzioni di armatura

Le coordinate citate nel seguito sono espresse in un sistema di riferimento cartesiano con origine in (2012.5; -20; 790), direzione dell'asse X = (1; 0; 0), direzione dell'asse Y = (0; 1; 0).
Le direzioni X/Y di armatura e le sezioni X/Y di verifica sono individuate dagli assi del sistema di riferimento.

Verifiche nei nodi

Verifiche SLU flessione nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	Mu	Nu	c.s.	Verifica
7151	Y	100	20	10.05	4.3	10.05	4.3	SLV 1	-303804	0	-597782	0	1.9677	Si
6745	Y	100	20	10.05	4.3	10.05	4.3	SLV 3	-303783	0	-597782	0	1.9678	Si
7187	Y	100	20	10.05	4.3	10.05	4.3	SLV 15	-298404	0	-597782	0	2.0033	Si
6781	Y	100	20	10.05	4.3	10.05	4.3	SLV 13	-298334	0	-597782	0	2.0037	Si
6757	Y	100	20	10.05	4.3	10.05	4.3	SLV 13	-287571	0	-597782	0	2.0787	Si
7163	Y	100	20	10.05	4.3	10.05	4.3	SLV 15	-287559	0	-597782	0	2.0788	Si
6677	Y	100	20	10.05	4.3	10.05	4.3	SLV 13	-285784	0	-597782	0	2.0917	Si

Verifiche SLD Resistenza flessione nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	Mu	Nu	c.s.	Verifica
7187	Y	100	20	10.05	4.3	10.05	4.3	SLD 15	-226560	0	-597782	0	2.6385	Si
6781	Y	100	20	10.05	4.3	10.05	4.3	SLD 13	-226501	0	-597782	0	2.6392	Si
7151	Y	100	20	10.05	4.3	10.05	4.3	SLD 1	-223394	0	-597782	0	2.6759	Si
6745	Y	100	20	10.05	4.3	10.05	4.3	SLD 3	-223378	0	-597782	0	2.6761	Si
6701	Y	100	20	10.05	4.3	10.05	4.3	SLD 13	-214226	0	-597782	0	2.7904	Si
7267	Y	100	20	10.05	4.3	10.05	4.3	SLD 15	-214212	0	-597782	0	2.7906	Si
7107	Y	100	20	10.05	4.3	10.05	4.3	SLD 15	-211227	0	-597782	0	2.83	Si

Verifiche SLE tensione calcestruzzo nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	σc	σlim	Es/Ec	Verifica
6475	Y	100	20	10.05	4.3	10.05	4.3	SLE QP 1	-138556	0	-18.1	149.4	15	Si
7427	Y	100	20	10.05	4.3	10.05	4.3	SLE QP 1	-138550	0	-18.1	149.4	15	Si
7187	Y	100	20	10.05	4.3	10.05	4.3	SLE QP 1	-135987	0	-17.8	149.4	15	Si
6781	Y	100	20	10.05	4.3	10.05	4.3	SLE QP 1	-135945	0	-17.8	149.4	15	Si
7425	Y	100	20	10.05	4.3	10.05	4.3	SLE QP 2	-135721	0	-17.7	149.4	15	Si
6473	Y	100	20	10.05	4.3	10.05	4.3	SLE QP 2	-135710	0	-17.7	149.4	15	Si
7107	Y	100	20	10.05	4.3	10.05	4.3	SLE QP 1	-130529	0	-17.1	149.4	15	Si

Verifiche SLE tensione acciaio nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	σf	σlim	Es/Ec	Verifica
6475	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 2	-149056	0	166.7	3600	15	Si
7427	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 2	-149051	0	166.7	3600	15	Si
7425	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 3	-149037	0	166.6	3600	15	Si
6473	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 3	-149026	0	166.6	3600	15	Si
7187	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 2	-145543	0	162.7	3600	15	Si
6781	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 2	-145499	0	162.7	3600	15	Si
7426	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 2	-140842	0	157.5	3600	15	Si

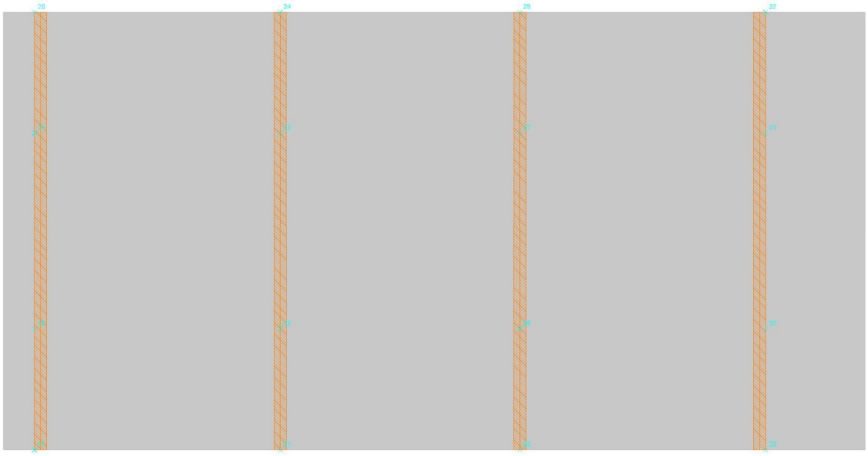
Verifiche SLE fessurazione nei nodi

La piastra non presenta nodi con apertura delle fessure.

Piastra 02 a Piano 1

Verifiche condotte secondo D.M. 17-01-18 (N.T.C.)

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C32/40 Rck 400

Sistema di riferimento e direzioni di armatura

Le coordinate citate nel seguito sono espresse in un sistema di riferimento cartesiano con origine in (2012.5; -142; 440), direzione dell'asse X = (1; 0; 0), direzione dell'asse Y = (0; 1; 0).
Le direzioni X/Y di armatura e le sezioni X/Y di verifica sono individuate dagli assi del sistema di riferimento.

Verifiche nei nodi

Verifiche SLU flessione nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	Mu	Nu	c.s.	Verifica
3176	Y	50	20	5.03	4.3	5.03	4.3	SLU 10	-278572	0	-293883	0	1.055	Si
5305	Y	50	20	5.03	4.3	5.03	4.3	SLU 10	-278511	0	-293883	0	1.0552	Si
3595	Y	100	20	10.05	4.3	10.05	4.3	SLV 13	-511123	0	-597782	0	1.1695	Si
4855	Y	100	20	10.05	4.3	10.05	4.3	SLV 15	-509456	0	-597782	0	1.1734	Si
5109	Y	100	20	10.05	4.3	10.05	4.3	SLU 10	-492516	0	-597782	0	1.2137	Si
3340	Y	100	20	10.05	4.3	10.05	4.3	SLU 10	-492458	0	-597782	0	1.2139	Si
3680	Y	100	20	14.07	4.3	10.05	4.3	SLV 13	-621666	0	-770277	0	1.2391	Si

Verifiche SLD Resistenza flessione nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	Mu	Nu	c.s.	Verifica
4186	Y	100	20	20.11	4.3	10.05	4.3	SLD 13	-724575	0	-1056423	0	1.458	Si
4278	Y	100	20	20.11	4.3	10.05	4.3	SLD 15	-724669	0	-1057511	0	1.4593	Si
3595	Y	100	20	10.05	4.3	10.05	4.3	SLD 13	-393076	0	-597782	0	1.5208	Si
4370	Y	100	20	20.11	4.3	10.05	4.3	SLD 15	-693051	0	-1054523	0	1.5216	Si
4094	Y	100	20	20.11	4.3	10.05	4.3	SLD 13	-692991	0	-1055617	0	1.5233	Si
4855	Y	100	20	10.05	4.3	10.05	4.3	SLD 15	-391404	0	-597782	0	1.5273	Si
4131	Y	100	20	20.11	4.3	10.05	4.3	SLD 3	-683153	0	-1056248	0	1.5461	Si

Verifiche SLE tensione calcestruzzo nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	σc	σlim	Es/Ec	Verifica
4278	Y	100	20	20.11	4.3	10.05	4.3	SLE QP 2	-583203	0	-112.2	149.4	15	Si
4186	Y	100	20	20.11	4.3	10.05	4.3	SLE QP 2	-583125	0	-112.2	149.4	15	Si
4370	Y	100	20	20.11	4.3	10.05	4.3	SLE QP 2	-549686	0	-105.8	149.4	15	Si
4094	Y	100	20	20.11	4.3	10.05	4.3	SLE QP 2	-549547	0	-105.8	149.4	15	Si
4222	Y	100	20	20.11	4.3	10.05	4.3	SLE QP 1	-536004	0	-103.2	149.4	15	Si
4131	Y	100	20	20.11	4.3	10.05	4.3	SLE QP 1	-536002	0	-103.2	149.4	15	Si
4315	Y	100	20	20.11	4.3	10.05	4.3	SLE QP 1	-501085	0	-96.4	149.4	15	Si

Verifiche SLE tensione acciaio nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	σf	σlim	Es/Ec	Verifica
3176	Y	50	20	5.03	4.3	5.03	4.3	SLE RA 5	-199670	0	2903.5	3600	15	Si
5305	Y	50	20	5.03	4.3	5.03	4.3	SLE RA 5	-199615	0	2902.7	3600	15	Si
5109	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 5	-353235	0	2568.3	3600	15	Si
3340	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 5	-353209	0	2568.1	3600	15	Si
4939	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 5	-337399	0	2453.2	3600	15	Si
3510	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 5	-337107	0	2451	3600	15	Si
4855	Y	100	20	10.05	4.3	10.05	4.3	SLE RA 4	-335726	0	2441	3600	15	Si

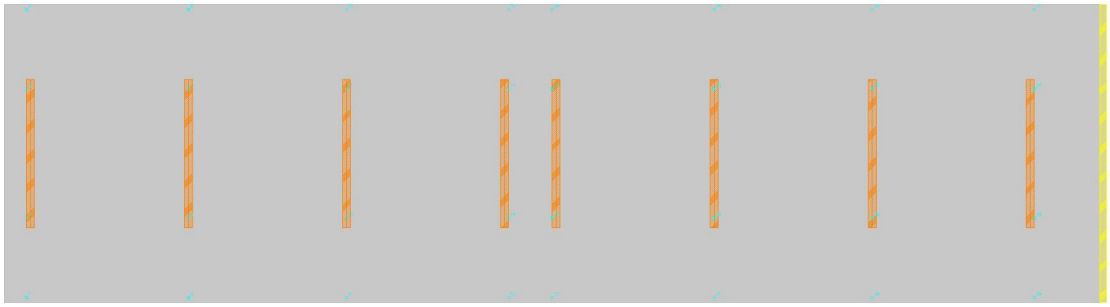
Verifiche SLE fessurazione nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	εsm	Δmax	Wd	Es/Ec	Verifica
3725	X	100	20	10.05	5.9	10.05	5.9	SLE QP 1	-271096	0	0.00104	19.1	0.0198	15	Si
3692	X	100	20	10.05	5.9	10.05	5.9	SLE QP 1	-269688	0	0.00103	19.1	0.0197	15	Si
4741	X	100	20	10.05	5.9	10.05	5.9	SLE QP 1	-269291	0	0.00103	19.1	0.0197	15	Si
3827	X	100	20	10.05	5.9	10.05	5.9	SLE QP 2	-267486	0	0.00102	19.1	0.0196	15	Si
4610	X	100	20	10.05	5.9	10.05	5.9	SLE QP 2	-266895	0	0.00102	19.1	0.0195	15	Si
4332	X	100	20	10.05	5.9	10.05	5.9	SLE QP 1	264305	0	0.00101	19.1	0.0193	15	Si
4056	X	100	20	10.05	5.9	10.05	5.9	SLE QP 1	264245	0	0.00101	19.1	0.0193	15	Si

Platea a "Fondazione"

Verifiche condotte secondo D.M. 17-01-18 (N.T.C.)

Geometria



Caratteristiche dei materiali

Acciaio: B450C Fyk 4500
Calcestruzzo: C25/30 Rck 300

Sistema di riferimento e direzioni di armatura

Le coordinate citate nel seguito sono espresse in un sistema di riferimento cartesiano con origine in (38; -160; 0), direzione dell'asse X = (1; 0; 0), direzione dell'asse Y = (0; 1; 0).
Le direzioni X/Y di armatura e le sezioni X/Y di verifica sono individuate dagli assi del sistema di riferimento.

Verifiche nei nodi

Verifiche SLU flessione nei nodi

Piastra di fondazione con comportamento non dissipativo pertanto la verifica a pressoflessione, per le combinazioni SLV, viene eseguita calcolando i momenti resistenti in campo sostanzialmente elastico secondo D.M. 17-01-2018 §7.4.1

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	Mu	Nu	c.s.	Verifica
506	Y	100	60	15.71	4.5	15.71	4.5	SLV FO 5	2761075	0	3131190	0	1.134	Si
591	Y	100	60	15.71	4.5	15.71	4.5	SLV FO 1	2695638	0	3131190	0	1.1616	Si
594	Y	100	60	15.71	4.5	15.71	4.5	SLV FO 13	2695101	0	3131190	0	1.1618	Si
590	Y	100	60	15.71	4.5	15.71	4.5	SLV FO 13	2692940	0	3131190	0	1.1627	Si
505	Y	100	60	15.71	4.5	15.71	4.5	SLV FO 9	2686609	0	3131190	0	1.1655	Si
509	Y	100	60	15.71	4.5	15.71	4.5	SLV FO 9	2674332	0	3131190	0	1.1708	Si
1359	Y	100	60	15.71	4.5	15.71	4.5	SLV FO 15	2639419	0	3131190	0	1.1863	Si

Verifiche SLD Resistenza flessione nei nodi

Piastra di fondazione con comportamento non dissipativo pertanto la verifica a pressoflessione viene eseguita calcolando i momenti resistenti in campo sostanzialmente elastico secondo D.M. 17-01-2018 §7.4.1

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	Mu	Nu	c.s.	Verifica
506	Y	100	60	15.71	4.5	15.71	4.5	SLD 5	2303485	0	3131190	0	1.3593	Si
509	Y	100	60	15.71	4.5	15.71	4.5	SLD 9	2262505	0	3131190	0	1.3839	Si
505	Y	100	60	15.71	4.5	15.71	4.5	SLD 5	2240041	0	3131190	0	1.3978	Si
594	Y	100	60	15.71	4.5	15.71	4.5	SLD 13	2192683	0	3131190	0	1.428	Si
591	Y	100	60	15.71	4.5	15.71	4.5	SLD 1	2188998	0	3131190	0	1.4304	Si
510	Y	100	60	15.71	4.5	15.71	4.5	SLD 9	2151952	0	3131190	0	1.455	Si
590	Y	100	60	15.71	4.5	15.71	4.5	SLD 13	2151003	0	3131190	0	1.4557	Si

Verifiche SLE tensione calcestruzzo nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	σc	σlim	Es/Ec	Verifica
509	Y	100	60	15.71	4.5	15.71	4.5	SLE QP 2	1833328	0	-45.3	112.1	15	Si
506	Y	100	60	15.71	4.5	15.71	4.5	SLE QP 2	1826289	0	-45.2	112.1	15	Si
510	Y	100	60	15.71	4.5	15.71	4.5	SLE QP 2	1813912	0	-44.8	112.1	15	Si
505	Y	100	60	15.71	4.5	15.71	4.5	SLE QP 2	1787680	0	-44.2	112.1	15	Si
509	Y	100	60	15.71	4.5	15.71	4.5	SLE RA 5	1923652	0	-47.6	149.4	15	Si
506	Y	100	60	15.71	4.5	15.71	4.5	SLE RA 5	1913151	0	-47.3	149.4	15	Si
510	Y	100	60	15.71	4.5	15.71	4.5	SLE RA 5	1892943	0	-46.8	149.4	15	Si

Verifiche SLE tensione acciaio nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	σf	σlim	Es/Ec	Verifica
509	Y	100	60	15.71	4.5	15.71	4.5	SLE RA 5	1923652	0	2391.8	3600	15	Si
506	Y	100	60	15.71	4.5	15.71	4.5	SLE RA 5	1913151	0	2378.7	3600	15	Si
510	Y	100	60	15.71	4.5	15.71	4.5	SLE RA 5	1892943	0	2353.6	3600	15	Si
505	Y	100	60	15.71	4.5	15.71	4.5	SLE RA 5	1871684	0	2327.2	3600	15	Si
594	Y	100	60	15.71	4.5	15.71	4.5	SLE RA 5	1754796	0	318.6	3600	15	Si
595	Y	100	60	15.71	4.5	15.71	4.5	SLE RA 5	1745087	0	316.9	3600	15	Si
591	Y	100	60	15.71	4.5	15.71	4.5	SLE RA 5	1740001	0	316	3600	15	Si

Verifiche SLE fessurazione nei nodi

Nodo	Dir.	B	H	A. sup.	C. sup.	A. inf.	C. inf.	Comb.	M	N	εsm	Δmax	Wd	Es/Ec	Verifica
509	Y	100	60	15.71	4.5	15.71	4.5	SLE QP 2	1833328	0	0.00068	36.3	0.0245	15	Si
506	Y	100	60	15.71	4.5	15.71	4.5	SLE QP 2	1826289	0	0.00067	36.3	0.0244	15	Si
510	Y	100	60	15.71	4.5	15.71	4.5	SLE QP 2	1813912	0	0.00066	36.3	0.0241	15	Si
505	Y	100	60	15.71	4.5	15.71	4.5	SLE QP 2	1787680	0	0.00065	36.3	0.0235	15	Si
509	Y	100	60	15.71	4.5	15.71	4.5	SLE FR 4	1852341	0	0.00069	36.3	0.0249	15	Si
506	Y	100	60	15.71	4.5	15.71	4.5	SLE FR 4	1844391	0	0.00068	36.3	0.0248	15	Si
510	Y	100	60	15.71	4.5	15.71	4.5	SLE FR 4	1829793	0	0.00067	36.3	0.0244	15	Si

Verifiche geotecniche

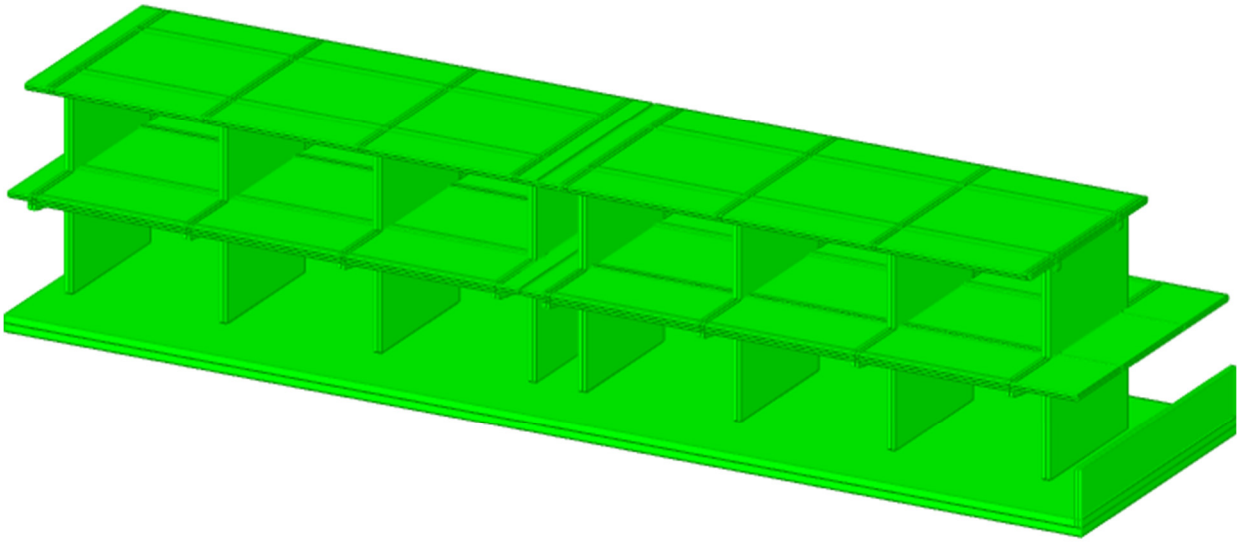
Dati geometrici dell'impronta di calcolo

Forma dell'impronta di calcolo: rettangolare di area equivalente
Centro impronta, nel sistema globale: 2101.5; 397.5; -60
Lato minore B dell'impronta: 1115
Lato maggiore L dell'impronta: 4127
Area dell'impronta rettangolare di calcolo: 4601605

Verifica di scorrimento sul piano di posa

Coefficiente di sicurezza minimo per scorrimento 2.75

Comb.	Fh	Fv	Cnd	Ad	Phi	RPI	γR	Rd	Ed	Rd/Ed	Verifica
SLU 10	13985	-4535714	BT	0.19	0	0	1.1	794823	13985	56.83	Si
SLV FO 3	259085	-3399831	LT	0	13	0	1.1	713557	259085	2.75	Si



Verifiche

Matera lì, dicembre 2022