Amministrazione Comunale di Massa Fermana

Comune di Massa Fermana (FM)

AMPLIAMENTO CIVICO CIMITERO
PRIMO STRALCIO
VIA MONTE STALIO - LOC. MADONNETTA

PROGETTO DEFINITIVO-ESECUTIVO

PROGETTO STRUTTURALE

RELAZIONE DI CALCOLO STRUTTURALE CORPI A-B

Progettisti :

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Collaboratore:

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FASC. N.		DATA
05-ST-RC1		Luglio 2018

AMPLIAMENTO CIMITERO CIVICO – CORPO A

ELENCO DOCUMENTAZIONE

- INPUT ED OUTPUT STRUTTURALI
- VERIFICA PI DELTA SLD
- VERIFICA PI DELTA SLV
- VERIFICA SPOSTAMENTI DIFFERENZIALI
- VERIFICA PALI DI FONDAZIONE
- VERIFICA SETTI C.A.
- VERIFICA SOLETTA DI BASE C.A.
- VERIFICA SOLETTA C.A. DI COPERTURA
- VERIFICA TRAVI C.A.

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
  -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -
    - Via statica equivalente.
    - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.

- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Indice

Dati relativi ai nodi della struttura

Convenzioni adottate

La terna di riferimento generale è destrorsa.

I nodi vengono numerati, con riferimento a una sezione orizzontale, da sinistra a destra, dal basso verso l'alto e per quote crescenti.

L'impalcato di appartenenza di un nodo è definito, in generale, dalla prima delle tre cifre che ne definiscono il numero, possono tuttavia presentarsi casi in cui si hanno più di 100 nodi per solaio nel qual caso il solaio di appartenenza è specificato dall'ultimo valore stampato nella riga dei dati relativi al nodo.

La maschera dei vincoli è costituita dai valori 0 e 1. Il valore 1 indica che per il nodo in riferimento il grado di libertà correlativo è soppresso mentre il valore 0 indica che è libero.

Nel caso di edifici civili multipiano l'asse *z* generale coincide con l'asse verticale rivolto verso l'alto.

Nodi

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
1	-1.80	0.00	0.00	0	0	0	0	0	0	0
2	0.75	0.00	0.00	0	0	0	0	0	0	0
3	3.30	0.00	0.00	0	0	0	0	0	0	0
4	5.85	0.00	0.00	0	0	0	0	0	0	0
5	8.40	0.00	0.00	0	0	0	0	0	0	0
6	-1.80	1.48	0.00	0	0	0	0	0	0	0
7	0.75	1.48	0.00	0	0	0	0	0	0	0
8	3.30	1.48	0.00	0	0	0	0	0	0	0
9	5.85	1.48	0.00	0	0	0	0	0	0	0
10	8.40	1.48	0.00	0	0	0	0	0	0	0
11	-1.80	2.95	0.00	0	0	0	0	0	0	0

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
12	0.75	2.95	0.00	0	0	0	0	0	0	0
13	3.30	2.95	0.00	0	0	0	0	0	0	0
14	5.85	2.95	0.00	0	0	0	0	0	0	0
15	8.40	2.95	0.00	0	0	0	0	0	0	0
16	-1.80	0.00	2.35	0	0	0	0	0	0	0
17	0.75	0.00	2.35	0	0	0	0	0	0	0
18	3.30	0.00	2.35	0	0	0	0	0	0	0
19	5.85	0.00	2.35	0	0	0	0	0	0	0
20	8.40	0.00	2.35	0	0	0	0	0	0	0
21	-1.80	1.48	2.35	0	0	0	0	0	0	0
22	8.40	1.48	2.35	0	0	0	0	0	0	0
23	-1.80	2.95	2.35	0	0	0	0	0	0	0
24	8.40	2.95	2.35	0	0	0	0	0	0	0
101	-1.80	0.00	4.70	0	0	0	0	0	0	1
102	0.75	0.00	4.70	0	0	0	0	0	0	1
103	3.30	0.00	4.70	0	0	0	0	0	0	1
104	5.85	0.00	4.70	0	0	0	0	0	0	1
105	8.40	0.00	4.70	0	0	0	0	0	0	1
106	-1.80	1.48	4.70	0	0	0	0	0	0	1
107	0.75	1.48	4.70	0	0	0	0	0	0	1
108	3.30	1.48	4.70	0	0	0	0	0	0	1
109	5.85	1.48	4.70	0	0	0	0	0	0	1
110	8.40	1.48	4.70	0	0	0	0	0	0	1
111	-1.80	2.95	4.70	0	0	0	0	0	0	1
112	0.75	2.95	4.70	0	0	0	0	0	0	1
113	3.30	2.95	4.70	0	0	0	0	0	0	1
114	5.85	2.95	4.70	0	0	0	0	0	0	1
115	8.40	2.95	4.70	0	0	0	0	0	0	1
116	-1.80	3.45	4.70	0	0	0	0	0	0	1
117	0.75	3.45	4.70	0	0	0	0	0	0	1
118	3.30	3.45	4.70	0	0	0	0	0	0	1
119	5.85	3.45	4.70	0	0	0	0	0	0	1
120	8.40	3.45	4.70	0	0	0	0	0	0	1

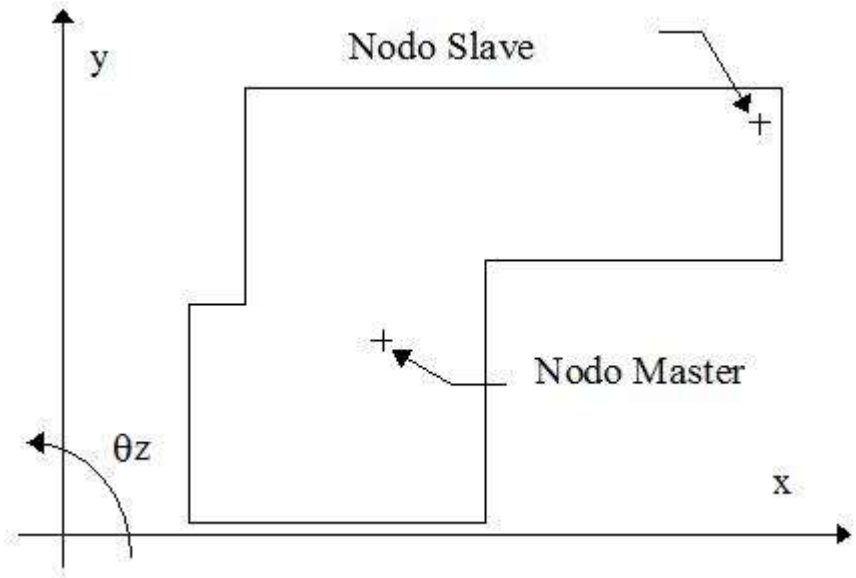
Dati relativi ai solai della struttura

Convenzioni adottate

Nel seguito con la dizione *solai* **non** sono individuati i solai che effettivamente verranno realizzati nella struttura bensi gli orizzonatamenti ai quali appartengono nodi per i quali vale l'ipotesi di impalcato infinitamente rigido.

Seguendo tale ipotesi di calcolo, le componenti di spostamento del singolo nodo di impalcato vengono in parte riferite a quelle di un nodo *master*, solitamente coincidente con il centro di massa dell'impalcato. In particolare le componenti di spostamento nodale sono cosi definite:

Componente di spostamento	espressa da
U_x	$U_{xMaster} - \theta_{zMaster} \times (Y_{Master} - Y_{Nodo})$
U_y	$U_{yMaster} + \theta_{zMaster} \times (X_{Master} - X_{Nodo})$
U_z	U_{zNodo}
θ_x	θ_{xNodo}
θ_y	θ_{yNodo}
θ_z	$\theta_{zMaster}$



Solaio	x [m]	y [m]	z [m]	Massa [UTM]	Jpolare [UTM m²]
1	3.30	1.22	4.70	4184.7	54112.3

Pali o gruppi di pali di fondazione

Convenzioni adottate

Il *palo* o il *gruppo di pali* di fondazione vengono schematizzati nel codice di calcolo assimilandoli ad un elemento *boundary*, agente nel nodo definito dall'operatore, ed in grado di reagire lungo le sei componenti di spostamento possibili per il nodo.

La matrice di rigidezza dell'elemento *palo* o *gruppo di pali* risulta pertanto essere cosi composta:

	U_x	U_y	U_z	R_x	R_y	R_z
U_x	K_{UxUx}	K_{UxUy}	K_{UxUz}	K_{UxRx}	K_{UxRy}	K_{UxRz}
U_y		K_{UyUy}	K_{UyUz}	K_{UyRx}	K_{UyRy}	K_{UyRz}
U_z			K_{UzUz}	K_{UzRx}	K_{UzRy}	K_{UzRz}
R_x				K_{RxRx}	K_{RxRy}	K_{RxRz}
R_y		simm.			K_{RyRy}	K_{RyRz}
R_z						K_{RzRz}

Tale matrice può essere definita direttamente dall'operatore ovvero calcolata con l'ausilio del programma *Pali*. In ogni caso il codice di calcolo si limita ad assemblare la matrice, assumendo che la stessa sia già definita nel sistema di riferimento gloabale, ed a ottenere le sei componenti di sollecitazioni ad essa associate.

La matrice è riferita ad una terna di riferimento destrorsa.

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	PALO 60	d:\Andrea\Desktop\Ampliamento cimitero Massa fermana 28-05-2018\Palo1.wpa	

Caratteristiche inerziali delle sezioni:

Sezione	Tipo	Ktx [kg/m]	Kty [kg/m]	Ktz [kg/m]	Krx [kgm]	Kmy [kgm]	Kmz [kgm]
1	d:\Andrea\Desktop\Ampliamento cimitero Massa fermana 28-05-2018\Palo1.wpa						
		3.3e+06	0.0e+00	-1.7e-09	0.0e+00	-6.3e+06	0.0e+00
		0.0e+00	3.3e+06	0.0e+00	6.3e+06	0.0e+00	2.8e-10
		-1.7e-09	0.0e+00	3.0e+07	0.0e+00	5.4e-10	0.0e+00
		0.0e+00	6.3e+06	0.0e+00	1.9e+07	0.0e+00	8.4e-10
		-6.3e+06	0.0e+00	5.4e-10	0.0e+00	1.9e+07	0.0e+00
		0.0e+00	2.8e-10	0.0e+00	8.4e-10	0.0e+00	1.9e+06

Nodo	Sezione
1	1
2	1
3	1
4	1
5	1
11	1
12	1
13	1
14	1
15	1

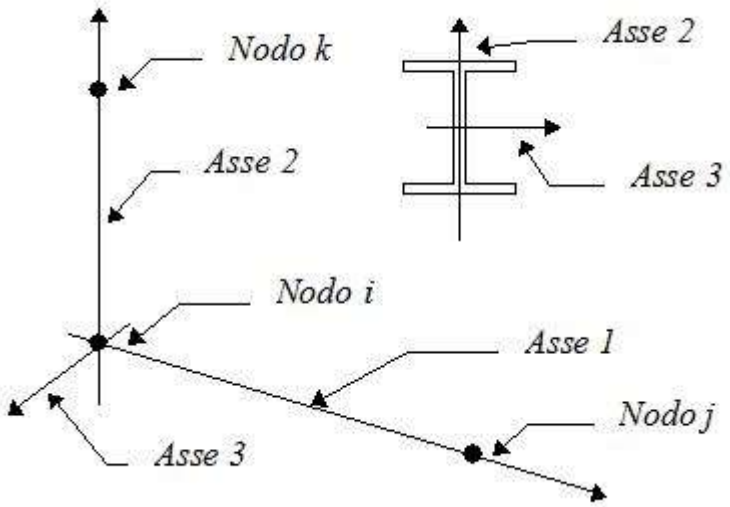
Elementi tipo trave

Convenzioni adottate

Ogni elemento tipo trave viene identificato da:

- Il nodo iniziale **i**;
- Il nodo finale **j**;
- Il nodo **k** che definisce l'orientamento nello spazio della terna riferimento locale dell'elemento.

La terna di riferimento locale della trave risulta essere così disposta:



Vengono riportati i valori di efficacia dei vincoli alle estreità dello elemento (variabili fra 0 e 100%), nei due piani **1-2** e **1-3** della trave in corrispondenza dei nodi, dando quindi la possibilità di considerare aste non perfettamente incastrate (coefficienti **Vi12, Vj12, Vi13, Vj13**).

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm²]	v	alfa [1/°C]	Peso Specifico [kg/m³]	Commento
1	300000.0	0.120	0.000012	2500.0	Calcestruzzo
2	2100000.0	0.330	0.000012	7850.0	Acciaio

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
2	1	Rett.	B= 70 H= 50 [cm] 70X50

Caratteristiche Inerziali:

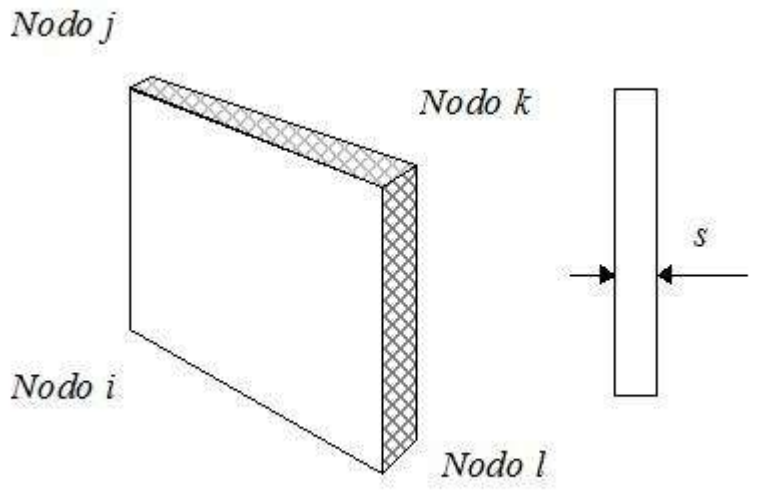
Sezione	Materiale	Area [cm²]	Jt [cm^4]	J2 [cm^4]	J3 [cm^4]	J23 [cm^4]	Xx	Xy
2	1	3500.00	1564944	729167	1429166	0	1.2	1.2

Dal Nodo	Al Nodo	Nodo k	Luce [m]	Materiale	Sezione	Fixity factors								Rigid-end [m]	
						V_{i12}	V_{j12}	V_{i13}	V_{j13}	N_i	N_j	T_i	T_j	d_{ri}	d_{rj}
2	1	10003	2.55	1	2	100	100	100	100	100	100	100	100	0.00	0.00
3	2	10003	2.55	1	2	100	100	100	100	100	100	100	100	0.00	0.00
4	3	10003	2.55	1	2	100	100	100	100	100	100	100	100	0.00	0.00
5	4	10003	2.55	1	2	100	100	100	100	100	100	100	100	0.00	0.00
11	12	10004	2.55	1	2	100	100	100	100	100	100	100	100	0.00	0.00
12	13	10004	2.55	1	2	100	100	100	100	100	100	100	100	0.00	0.00
13	14	10004	2.55	1	2	100	100	100	100	100	100	100	100	0.00	0.00
14	15	10004	2.55	1	2	100	100	100	100	100	100	100	100	0.00	0.00
1	6	10001	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
6	11	10001	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
2	7	10005	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
7	12	10005	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
3	8	10006	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
8	13	10006	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
4	9	10007	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
9	14	10007	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
10	5	10002	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
15	10	10002	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00

Elementi setto

Convenzioni adottate

L'elemento setto viene identificato mediante i quattro nodi (**i, j, k, l**) di bordo.



Numerazione dei nodi cui fa capo l'elemento

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm²]	ν	alfa [1/°C]	Peso Specifico [kg/m³]	Commento
1	300000.0	0.120	0.000012	2500.0	Calcestruzzo
2	2100000.0	0.330	0.000012	7850.0	Acciaio

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	1	Muro	s= 20 [cm] SETTO PERIMETRALE

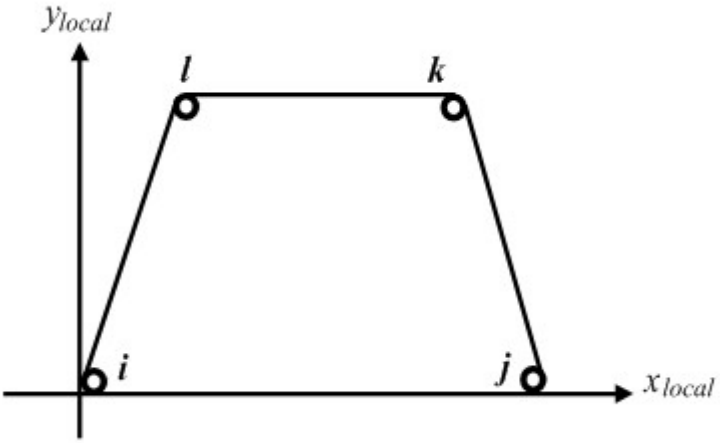
Nodo i	Nodo j	Nodo k	Nodo l	Materiale	Sezione
1	101	102	2	1	1
2	102	103	3	1	1
3	103	104	4	1	1
4	104	105	5	1	1
6	106	101	1	1	1
10	110	105	5	1	1
11	111	106	6	1	1
15	115	110	10	1	1

Elementi a 4 nodi

Convenzioni adottate

L'elemento a 4 nodi è individuato tramite il numero dei quattro nodi di vertice dello stesso.

Gli assi del sistema di riferimento locale risultano così disposti:



- L'asse $\mathbf{x}_{locale}$ ha direzione parallela alla retta congiungente i nodi **i** e **j**, è passante per i medesimi nodi ed ha verso positivo da **i** a **j**.
- L'asse $\mathbf{y}_{locale}$ è ortogonale all'asse $\mathbf{x}_{locale}$, passa per il nodo **i** ed ha verso positivo dalla parte del nodo **l**.
- L'asse $\mathbf{z}_{locale}$ è ottenuto per prodotto vettoriale fra $\mathbf{x}_{locale}$ e $\mathbf{y}_{locale}$.

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm²]	ν	alfa [1/°C]	Peso Specifico [kg/m³]	Commento
1	300000.0	0.120	0.000012	2500.0	Calcestruzzo
2	2100000.0	0.330	0.000012	7850.0	Acciaio

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	1	Mesh isotropa	s= 30 [cm] PLATEA DI BASE
2	1	Mesh isotropa	s= 20 [cm] SOLETTA COPERTURA

Nodo i	Nodo j	Nodo k	Nodo l	Materiale	Sezione
2	7	6	1	1	1
7	12	11	6	1	1
3	8	7	2	1	1
8	13	12	7	1	1
4	9	8	3	1	1
9	14	13	8	1	1
10	9	4	5	1	1
10	15	14	9	1	1
110	109	104	105	1	2
104	109	108	103	1	2
102	107	106	101	1	2
103	108	107	102	1	2

Nodo i	Nodo j	Nodo k	Nodo l	Materiale	Sezione
110	115	114	109	1	2
109	114	113	108	1	2
107	112	111	106	1	2
108	113	112	107	1	2
115	120	119	114	1	2
114	119	118	113	1	2
112	117	116	111	1	2
113	118	117	112	1	2

Condizioni e combinazioni di carico

Convenzioni adottate

Nel seguito vengono riportate il numero di condizioni di carico statiche e dinamiche che sollecitano la struttura. Si noti che:

- Per quanto riguarda le condizioni di carico dinamiche, il programma assimila ogni direzione di ingresso del sisma, definita dal progettista, ad una condizione di carico. Pertanto qualora agiscano sulla struttura *n* condizioni di carico statiche e il progettista abbia supposto che la struttura venga sollecitata da un sisma entrante in *m* direzioni, la struttura stessa viene considerata del programma come soggetta ad *n* + *m* condizioni di carico.
- Le combinazioni di carico, definite dal progettista, combinano fra loro le *n* + *m* condizioni di carico ognuna partecipante alla combinazione *i-esima* secondo i fattori di partecipazione nel seguito riportati. N.B.: se la condizione *j-esima* ha fattore di partecipazione unitario, allora partecipa per intero alla combinazione *i-esima*.
- Le prime *n* condizioni sono sempre statiche mentre sono di origine dinamica le (eventuali) condizioni da *n+1* a *n+m*.

Condizioni di carico definite:

Condizione	
1	Peso proprio
2	Pesi permamenti
3	Accidentali loculi _250
4	Neve _120
5	Carico H _50
6	Sisma 0+SLU
7	Sisma 0-SLU
8	Sisma 90+SLU
9	Sisma 90-SLU
10	Sisma 180+SLU
11	Sisma 180-SLU
12	Sisma 270+SLU
13	Sisma 270-SLU
14	Sisma 0+SLD
15	Sisma 0-SLD
16	Sisma 90+SLD
17	Sisma 90-SLD
18	Sisma 180+SLD
19	Sisma 180-SLD
20	Sisma 270+SLD
21	Sisma 270-SLD

Combinazioni agli Stati Limite Ultimi

Combinazione di carico numero	
1	SLU_1
2	SLU_2
3	SLU_3

Comb.\Cond	**1**	**2**	**3**	**4**	**5**
1	1.3	1.5	1.5	0.75	
2	1.3	1.5	1.5	1.5	
3		1.5	1.5	0.75	1.5

Combinazioni agli Stati Limite di Salvaguardia della Vita

Combinazione di carico numero	
4	Sisma 0+ / 90+
5	Sisma 0+ / 90-
6	Sisma 0+ / 270+
7	Sisma 0+ / 270-
8	Sisma 0- / 90+
9	Sisma 0- / 90-
10	Sisma 0- / 270+
11	Sisma 0- / 270-
12	Sisma 90+ / 0+
13	Sisma 90+ / 0-
14	Sisma 90+ / 180+
15	Sisma 90+ / 180-
16	Sisma 90- / 0+
17	Sisma 90- / 0-
18	Sisma 90- / 180+
19	Sisma 90- / 180-
20	Sisma 180+ / 90+
21	Sisma 180+ / 90-
22	Sisma 180+ / 270+
23	Sisma 180+ / 270-
24	Sisma 180- / 90+
25	Sisma 180- / 90-
26	Sisma 180- / 270+
27	Sisma 180- / 270-
28	Sisma 270+ / 0+
29	Sisma 270+ / 0-
30	Sisma 270+ / 180+
31	Sisma 270+ / 180-
32	Sisma 270- / 0+
33	Sisma 270- / 0-
34	Sisma 270- / 180+
35	Sisma 270- / 180-

Comb.\Cond	1	2	3	6	7	8	9	10	11	12	13
4	1	1	0.8	1		0.3					
5	1	1	0.8	1			0.3				
6	1	1	0.8	1						0.3	
7	1	1	0.8	1							0.3
8	1	1	0.8		1	0.3					
9	1	1	0.8		1		0.3				
10	1	1	0.8		1					0.3	
11	1	1	0.8		1						0.3
12	1	1	0.8	0.3		1					
13	1	1	0.8		0.3	1					
14	1	1	0.8			1		0.3			
15	1	1	0.8			1			0.3		
16	1	1	0.8	0.3			1				
17	1	1	0.8		0.3		1				
18	1	1	0.8				1	0.3			
19	1	1	0.8				1		0.3		
20	1	1	0.8			0.3		1			
21	1	1	0.8				0.3	1			
22	1	1	0.8					1		0.3	
23	1	1	0.8					1			0.3
24	1	1	0.8			0.3			1		
25	1	1	0.8				0.3		1		
26	1	1	0.8						1	0.3	
27	1	1	0.8						1		0.3
28	1	1	0.8	0.3						1	
29	1	1	0.8		0.3					1	
30	1	1	0.8					0.3		1	
31	1	1	0.8						0.3	1	
32	1	1	0.8	0.3							1
33	1	1	0.8		0.3						1
34	1	1	0.8					0.3			1
35	1	1	0.8						0.3		1

Combinazioni RARE Stati Limite di Esercizio

Combinazione di carico numero	
36	SLE_RARE_1
37	SLE_RARE_2
38	SLE_RARE_3

Comb.\Cond	1	2	3	4	5
36	1	1	1	0.5	
37	1	1	1	1	
38	1	1	1	0.5	1

Combinazioni FREQUENTI Stati Limite di Esercizio

Combinazione di carico numero	
39	SLE_FREQ_1
40	SLE_FREQ_2
41	SLE_FREQ_3

Comb.\Cond	**1**	**2**	**3**	**4**
39	1	1	0.9	
40	1	1	0.8	0.2
41	1	1	0.8	

Combinazioni QUASI PERMANENTI Stati Limite di Esercizio

Combinazione di carico numero	
42	SLE_QP_1

Comb.\Cond	**1**	**2**	**3**
42	1	1	0.8

Combinazioni agli Stati Limite di Danno

Combinazione di carico numero	
43	Sisma 0+ / 90+
44	Sisma 0+ / 90-
45	Sisma 0+ / 270+
46	Sisma 0+ / 270-
47	Sisma 0- / 90+
48	Sisma 0- / 90-
49	Sisma 0- / 270+
50	Sisma 0- / 270-
51	Sisma 90+ / 0+
52	Sisma 90+ / 0-
53	Sisma 90+ / 180+
54	Sisma 90+ / 180-
55	Sisma 90- / 0+
56	Sisma 90- / 0-
57	Sisma 90- / 180+
58	Sisma 90- / 180-
59	Sisma 180+ / 90+
60	Sisma 180+ / 90-
61	Sisma 180+ / 270+
62	Sisma 180+ / 270-
63	Sisma 180- / 90+
64	Sisma 180- / 90-
65	Sisma 180- / 270+
66	Sisma 180- / 270-

Combinazione di carico numero	
67	Sisma 270+ / 0+
68	Sisma 270+ / 0-
69	Sisma 270+ / 180+
70	Sisma 270+ / 180-
71	Sisma 270- / 0+
72	Sisma 270- / 0-
73	Sisma 270- / 180+
74	Sisma 270- / 180-

Comb.\Cond	1	2	3	14	15	16	17	18	19	20	21
43	1	1	0.8	1		0.3					
44	1	1	0.8	1			0.3				
45	1	1	0.8	1						0.3	
46	1	1	0.8	1							0.3
47	1	1	0.8		1	0.3					
48	1	1	0.8		1		0.3				
49	1	1	0.8		1					0.3	
50	1	1	0.8		1						0.3
51	1	1	0.8	0.3		1					
52	1	1	0.8		0.3	1					
53	1	1	0.8			1		0.3			
54	1	1	0.8			1			0.3		
55	1	1	0.8	0.3			1				
56	1	1	0.8		0.3		1				
57	1	1	0.8				1	0.3			
58	1	1	0.8				1		0.3		
59	1	1	0.8			0.3		1			
60	1	1	0.8				0.3	1			
61	1	1	0.8					1		0.3	
62	1	1	0.8					1			0.3
63	1	1	0.8			0.3			1		
64	1	1	0.8				0.3		1		
65	1	1	0.8						1	0.3	
66	1	1	0.8						1		0.3
67	1	1	0.8	0.3						1	
68	1	1	0.8		0.3					1	
69	1	1	0.8					0.3		1	
70	1	1	0.8						0.3	1	
71	1	1	0.8	0.3							1
72	1	1	0.8		0.3						1
73	1	1	0.8					0.3			1
74	1	1	0.8						0.3		1

Tabella delle combinazioni di carico presentate come inviluppi

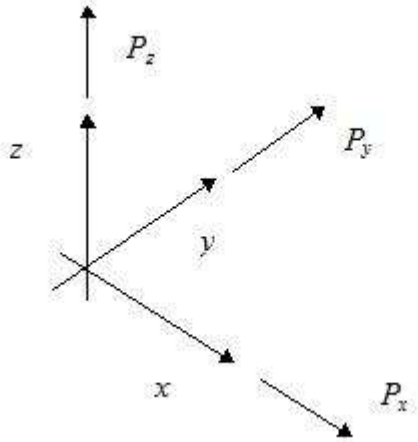
Commento	Sigla Combinazione	Combinazioni utilizzate
SLU Statiche	SLU Statiche +-	1 2 3
SLV	SLV +-	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35
SLE Rare	SLE Rare +-	36 37 38
SLE Frequenti	SLE Frequenti +-	39 40 41
SLE Quasi Permanenti	SLE Quasi Permanenti +-	42

SLD SLD +- 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74

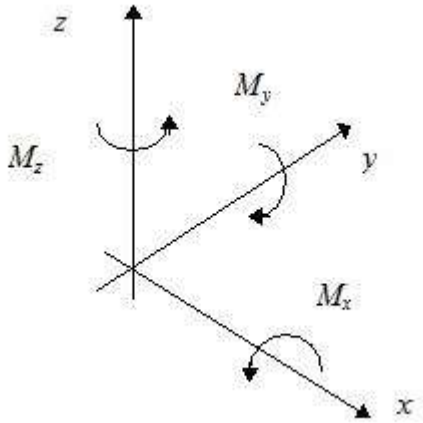
Carichi e coppie applicati ai nodi

Convenzioni adottate

La terna di riferimento generale è destrorsa per cui si hanno i seguenti segni positivi per i carichi o per le coppie direttamente applicati ai nodi:



Versi positivi delle forze concentrate applicate ai nodi.



Versi positivi delle coppie concentrate applicate ai nodi.

Nel seguito vengono riportati per ogni nodo, su cui agiscono carichi concentrati, le componenti del carico (**P_x**, **P_y**, **P_z**, **M_x**, **M_y**, **M_z**) e la condizione di carico cui esse fanno riferimento.

Nodo	Cond.	Px [kN]	Py [kN]	Pz [kN]	Mx [kgm]	My [kgm]	Mz [kgm]

Carichi e coppie applicati ai solai

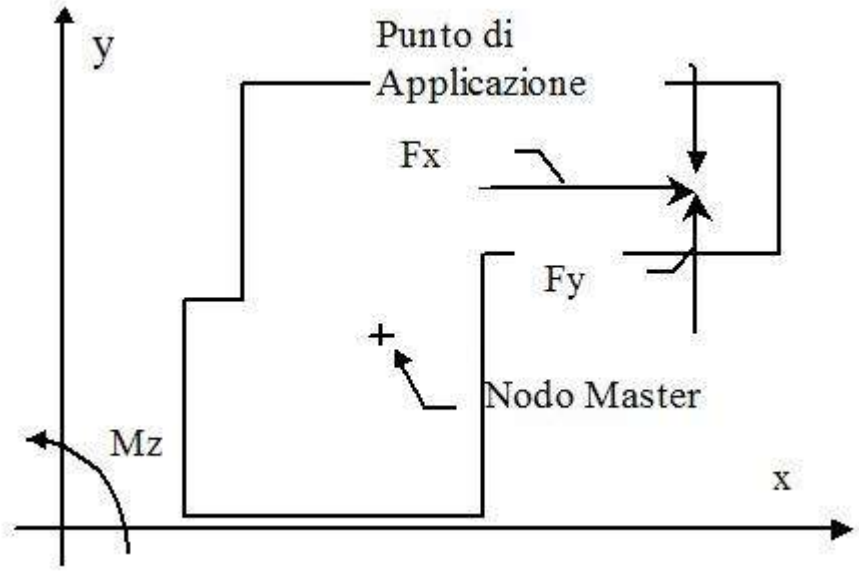
Convenzioni adottate

Seguendo l'ipotesi di piano infinitamente rigido le azioni agenti nel piano del solaio vengono trasformate dal codice di calcolo in azioni agenti nel cosiddetto nodo *master di solaio* secondo le trasformazioni seguenti:

$F_{xMaster} = F_{xNodo}$

$F_{yMaster} = F_{yNodo}$

$M_{zMaster} = M_{zNodo} - F_{xNodo} (y_{App} - y_{Master}) + F_{yNodo} (x_{App} - x_{Master})$



Nel seguito vengono riportati per ogni solaio, su cui agiscono carichi concentrati, le componenti del carico (**F_x**, **F_y**, **M_z**), le coordinate del punto di applicazione nel piano orizzontale (**x, y**) e la condizione di carico cui esse fanno riferimento.

Solaio	Condizione	Fx [kN]	Fy [kN]	Mz [kgm]	x Punto di applicazione [m]	y Punto di Applicazione [m]

Carichi applicati agli elementi

Convenzioni adottate

I carichi applicati vengono raccolti nella tabella riportata alla fine del paragrafo e si intendono applicati nel sistema di riferimento locale dell'elemento.

Per la lettura della tabella si definiscono:

NodoI, NodoJ
: I nodi iniziale/finale dell'asta o lato dell'elemento cui afferisce il carico

L
: La distanza fra i suddetti nodi.

qxi, ..., qzj
: Le componenti di un carico distribuito costante o variabile lineramente iniziali (indice i) e finale (indice j).

xi, xj
: Le distanze, misurate a partire dal NodoI, dei punti di applicazione dei carichi qxi..qzj relativi a carichi distribuiti applicati su porzioni di un'asta.

Px, ..., Pz xApp
: Le componenti di un Carico Concentrato applicato a distanza xApp dal NodoI.

Mx, ..., Mz xApp
: Le componenti di una Coppia Concentrata applicata a distanza xApp dal NodoI.

Var Termica Assiale, ..., Var Termica Farfalla 13
: Le variazioni termiche (Assiali ed a Farfalla) misurate in gradi Celsius.

mxi, ..., mzj
: Le componenti di coppie distribuite costanti o variabili lineramente iniziali (indice i) e finale (indice j).

qS_x, qS_y, qS_z
: carichi, per unità di superficie, applicati su elementi superficiali o facce di elementi solidi

Peso Proprio
: Il valore del carico derivante dal peso proprio dell'elemento

Carichi distribuiti

Nodo I	Nodo J	L [m]	Condizione di carico	xi [m]	qxi [kg/m]	qyi [kg/m]	qzi [kg/m]	xj [m]	qxj [kg/m]	qyj [kg/m]	qzj [kg/m]
1	6	1.48	2	0.00	0.0	517.0	0.0	1.48	0.0	517.0	0.0
6	11	1.48	2	0.00	0.0	517.0	0.0	1.48	0.0	517.0	0.0
10	5	1.48	2	0.00	0.0	517.0	0.0	1.48	0.0	517.0	0.0
15	10	1.48	2	0.00	0.0	517.0	0.0	1.48	0.0	517.0	0.0

Carichi distribuiti

Elemento	Condizione di carico	Nodi	L [m]	xi [m]	qxi [kg/m]	qyi [kg/m]	qzi [kg/m]	xj [m]	qxj [kg/m]	qyj [kg/m]	qzj [kg/m]	qSx [kg/m²]	qSy [kg/m²]	qSz [kg/m²]
	1											0.0	500.0	0.0
2 6	3											0.0	0.0	1250.0
	1											0.0	0.0	750.0
	2											0.0	0.0	3000.0
	1											0.0	500.0	0.0
7 11	3											0.0	0.0	1250.0
	1											0.0	0.0	750.0
	2											0.0	0.0	3000.0
	1											0.0	500.0	0.0
3 7	3											0.0	0.0	1250.0
	1											0.0	0.0	750.0
	2											0.0	0.0	3000.0
	1											0.0	500.0	0.0
8 12	3											0.0	0.0	1250.0
	1											0.0	0.0	750.0
	2											0.0	0.0	3000.0
	1											0.0	500.0	0.0
4 8	3											0.0	0.0	1250.0
	1											0.0	0.0	750.0
	2											0.0	0.0	3000.0
	1											0.0	500.0	0.0
9 13	3											0.0	0.0	1250.0
	1											0.0	0.0	750.0
	2											0.0	0.0	3000.0
	1											0.0	500.0	0.0
10 4	3											0.0	0.0	1250.0
	1											0.0	0.0	750.0
	2											0.0	0.0	3000.0
	1											0.0	500.0	0.0
10 14	3											0.0	0.0	1250.0
	1											0.0	0.0	750.0
	2											0.0	0.0	3000.0
110 104	1											0.0	0.0	500.0
	5											0.0	0.0	50.0
	2											0.0	0.0	100.0
	4											0.0	0.0	120.0
104 108	1											0.0	0.0	500.0
	5											0.0	0.0	50.0
	2											0.0	0.0	100.0
	4											0.0	0.0	120.0
102 106	1											0.0	0.0	500.0
	5											0.0	0.0	50.0
	2											0.0	0.0	100.0
	4											0.0	0.0	120.0
103 107	1											0.0	0.0	500.0
	5											0.0	0.0	50.0
	2											0.0	0.0	100.0

	4	0.0	0.0	120.0
110 114	1	0.0	0.0	500.0
	5	0.0	0.0	50.0
	2	0.0	0.0	100.0
	4	0.0	0.0	120.0
109 113	1	0.0	0.0	500.0
	5	0.0	0.0	50.0
	2	0.0	0.0	100.0
	4	0.0	0.0	120.0
107 111	1	0.0	0.0	500.0
	5	0.0	0.0	50.0
	2	0.0	0.0	100.0
	4	0.0	0.0	120.0
108 112	1	0.0	0.0	500.0
	5	0.0	0.0	50.0
	2	0.0	0.0	100.0
	4	0.0	0.0	120.0
115 119	1	0.0	0.0	500.0
	5	0.0	0.0	50.0
	2	0.0	0.0	100.0
	4	0.0	0.0	120.0
114 118	1	0.0	0.0	500.0
	5	0.0	0.0	50.0
	2	0.0	0.0	100.0
	4	0.0	0.0	120.0
112 116	1	0.0	0.0	500.0
	5	0.0	0.0	50.0
	2	0.0	0.0	100.0
	4	0.0	0.0	120.0
113 117	1	0.0	0.0	500.0
	5	0.0	0.0	50.0
	2	0.0	0.0	100.0
	4	0.0	0.0	120.0

Analisi dinamica

Convenzioni adottate

Nella presente versione del programma ***WinStrand*** l'analisi in campo dinamico della struttura può essere condotta per via *statica equivalente* ovvero per via *modale* facendo uso, per il calcolo della risposta, dello spettro di pseudo accellerazioni fornito dal regolamento italiano.

Dati generali relativi all'analisi dinamica

Spettro in accordo con TU 2018

- Via Monte Stalio, 2, 63834 Massa Fermana FM, Italia Longitudine 13.4720 Latitudine 43.1565
- Tipo di Terreno B
- Coefficiente di amplificazione topografica (S_T) 1.0000
- Vita nominale della costruzione (V_N) 50.0 anni
- Classe d'uso II coefficiente C_U 1.0
- Classe di duttilità impostata Non Dissipativa
- Fattore di duttilità α_u/α_1 per sisma orizzontale 1.00
- Fattore riduttivo regolarità in altezza K_R 1.00
- Fattore riduttivo per la presenza di setti K_W 1.00

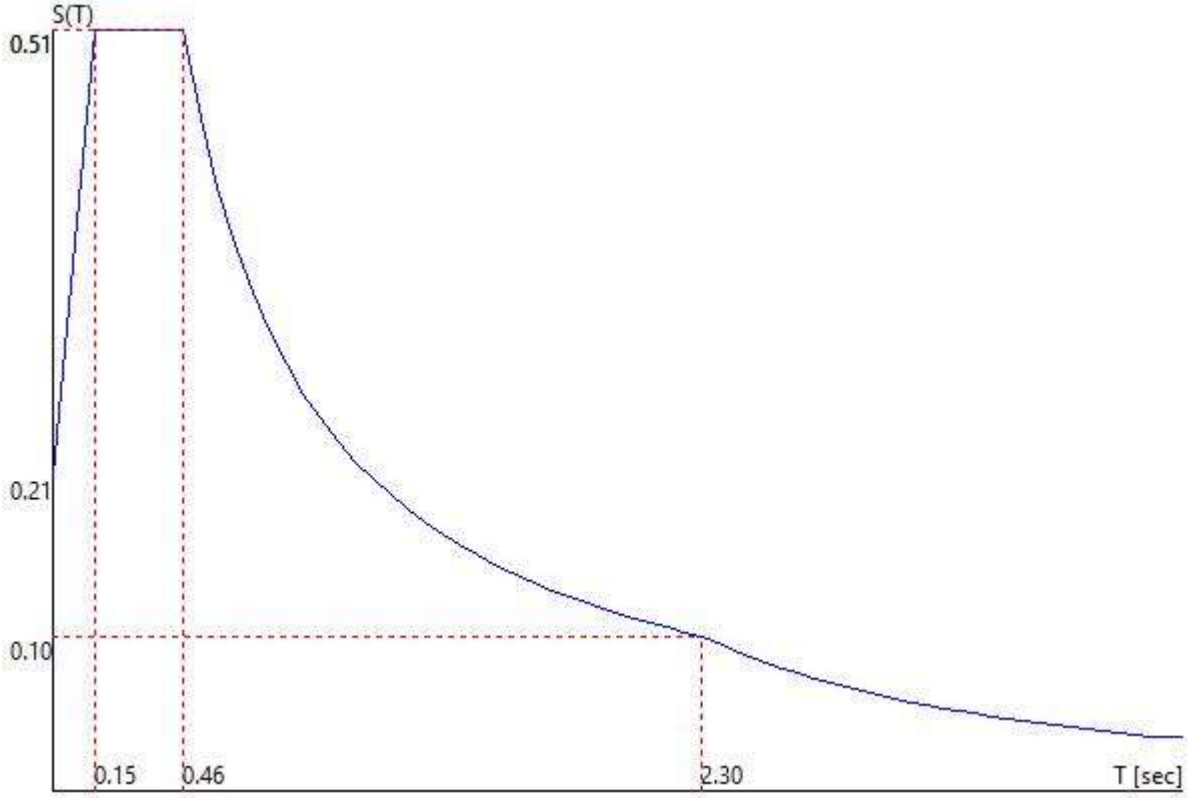
Stato Limite	q_o	q_H	q_V
SLV	1.00	1.00	1.50
SLD	1.00	1.00	1.50
SLC	1.00	1.00	1.50
SLO	1.00	1.00	1.50

- Smorzamento Viscoso (0.05 = 5%) 0.05

TU 2018 SLV H

- Probabilità di superamento (P_{VR}) 10.0 e periodo di ritorno (T_R) 475 (anni)
- S_s 1.200
- T_B 0.15 [sec]
- T_C 0.46 [sec]
- T_D 2.30 [sec]
- a_g/g 0.1745
- F_o 2.4341
- T_C^* 0.3400

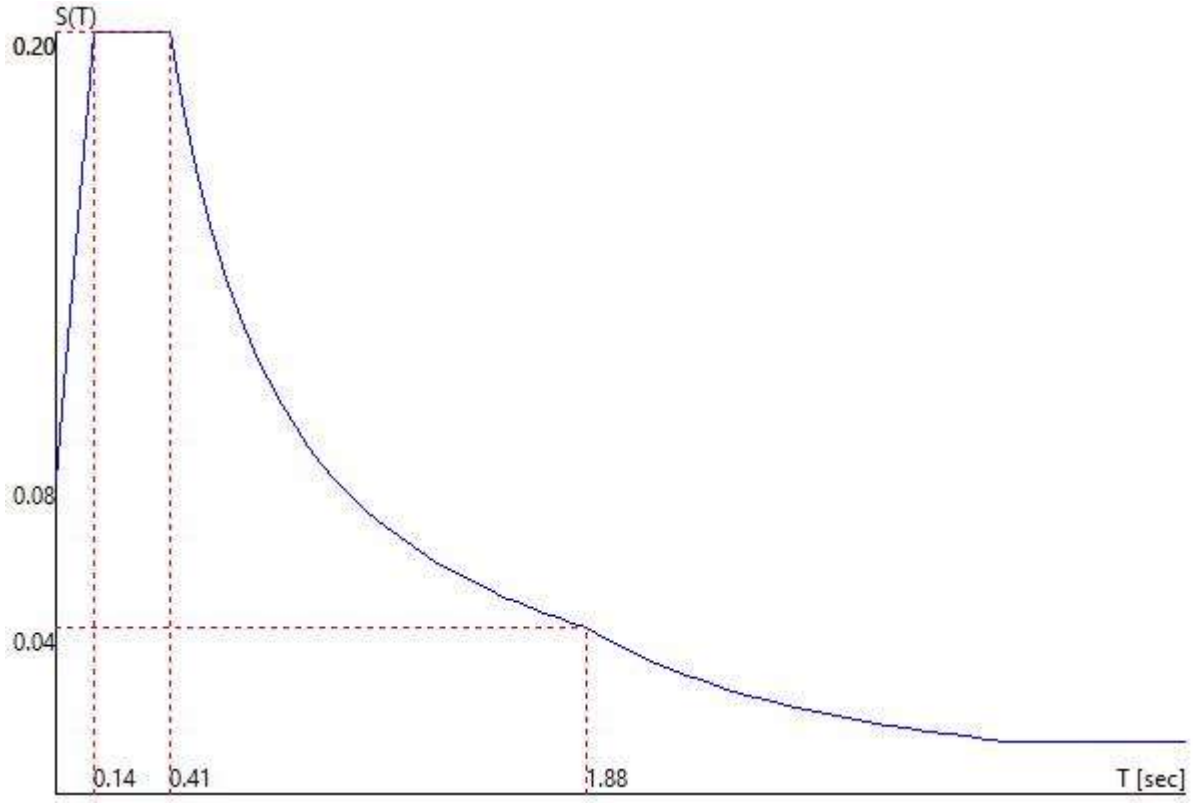
TU 2018 SLV H



TU 2018 SLD H

- Probabilità di superamento (P_{VR}) 63.0 e periodo di ritorno (T_R) 50 (anni)
- S_s 1.200
- T_B 0.14 [sec]
- T_C 0.41 [sec]
- T_D 1.88 [sec]
- a_g/g 0.0699
- F_o 2.4420
- T_C^* 0.2902

TU 2018 SLD H



Fattori di partecipazione per il calcolo delle masse

Cond. Carico 1 Peso proprio 1.0000

Cond. Carico 2 Pesi permamenti 1.0000

Cond. Carico 3 Accidentali loculi _250 0.8000

Cond. Carico 4 Neve _120 0.0000

Cond. Carico 5 Carico H _50 0.0000

Angoli d'ingresso del Sisma

- SLV Direzione 1 Angolo in pianta 0.00 [°]
- SLV Direzione 2 Angolo in pianta 0.00 [°]
- SLV Direzione 3 Angolo in pianta 90.00 [°]
- SLV Direzione 4 Angolo in pianta 90.00 [°]
- SLV Direzione 5 Angolo in pianta 180.00 [°]
- SLV Direzione 6 Angolo in pianta 180.00 [°]
- SLV Direzione 7 Angolo in pianta 270.00 [°]
- SLV Direzione 8 Angolo in pianta 270.00 [°]
- SLD Direzione 9 Angolo in pianta 0.00 [°]

- SLD Direzione 10 Angolo in pianta 0.00 [°]
- SLD Direzione 11 Angolo in pianta 90.00 [°]
- SLD Direzione 12 Angolo in pianta 90.00 [°]
- SLD Direzione 13 Angolo in pianta 180.00 [°]
- SLD Direzione 14 Angolo in pianta 180.00 [°]
- SLD Direzione 15 Angolo in pianta 270.00 [°]
- SLD Direzione 16 Angolo in pianta 270.00 [°]

Solaio	x [m]	y [m]	z [m]	Massa [UTM]	Jpolare [UTM m²]
1	3.30	1.22	4.70	4184.7	54112.3

Rigidezze traslanti dei solai.

Solaio	Kxx [kg/m]	Kyy [kg/m]	Kxy [kg/m]	Kxt [kgm]	Kyt [kgm]
1	2.0e+07	8.6e+06	2.0e-02	2.3e+07	-2.6e+00

Analisi Modale via Vettori di Ritz

Direzione d'ingresso 1 angolo 0.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	2.91006e+03	53.945	0.12	0.4355
2	5.62115e+03	74.974	0.08	0.3721

Direzione d'ingresso 2 angolo 0.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	2.65043e+03	51.482	0.12	0.4464
2	6.17179e+03	78.561	0.08	0.3647

Direzione d'ingresso 3 angolo 90.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.98103e+03	44.509	0.14	0.4835
2	2.86537e+03	53.529	0.12	0.4373
3	5.91255e+03	76.893	0.08	0.3680

Direzione d'ingresso 4 angolo 90.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.98103e+03	44.509	0.14	0.4835
2	2.86537e+03	53.529	0.12	0.4373

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
3	5.91255e+03	76.893	0.08	0.3680

Direzione d'ingresso 5 angolo 180.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	2.65043e+03	51.482	0.12	0.4464
2	6.17179e+03	78.561	0.08	0.3647

Direzione d'ingresso 6 angolo 180.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	2.91006e+03	53.945	0.12	0.4355
2	5.62115e+03	74.974	0.08	0.3721

Direzione d'ingresso 7 angolo 270.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.98103e+03	44.509	0.14	0.4835
2	2.86537e+03	53.529	0.12	0.4373
3	5.91255e+03	76.893	0.08	0.3680

Direzione d'ingresso 8 angolo 270.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.98103e+03	44.509	0.14	0.4835
2	2.86537e+03	53.529	0.12	0.4373
3	5.91255e+03	76.893	0.08	0.3680

Direzione d'ingresso 9 angolo 0.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	2.91006e+03	53.945	0.12	0.4355
2	5.62115e+03	74.974	0.08	0.3721

Direzione d'ingresso 10 angolo 0.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	2.65043e+03	51.482	0.12	0.4464
2	6.17179e+03	78.561	0.08	0.3647

Direzione d'ingresso 11 angolo 90.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.98103e+03	44.509	0.14	0.4835
2	2.86537e+03	53.529	0.12	0.4373
3	5.91255e+03	76.893	0.08	0.3680

Direzione d'ingresso 12 angolo 90.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.98103e+03	44.509	0.14	0.4835
2	2.86537e+03	53.529	0.12	0.4373
3	5.91255e+03	76.893	0.08	0.3680

Direzione d'ingresso 13 angolo 180.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	2.65043e+03	51.482	0.12	0.4464
2	6.17179e+03	78.561	0.08	0.3647

Direzione d'ingresso 14 angolo 180.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	2.91006e+03	53.945	0.12	0.4355
2	5.62115e+03	74.974	0.08	0.3721

Direzione d'ingresso 15 angolo 270.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.98103e+03	44.509	0.14	0.4835
2	2.86537e+03	53.529	0.12	0.4373
3	5.91255e+03	76.893	0.08	0.3680

Direzione d'ingresso 16 angolo 270.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.98103e+03	44.509	0.14	0.4835
2	2.86537e+03	53.529	0.12	0.4373
3	5.91255e+03	76.893	0.08	0.3680

Direzione di Ingresso del Sisma 1 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
2	-5.21890e+01	100.0	2.72369e+03	65.1	65.1
1	3.82226e+01	73.2	1.46097e+03	34.9	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.20	3.45	3.45	0.17	0.00	-0.17	721.9	0.0	124.5

Direzione di Ingresso del Sisma 1 Angolo 0.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	2	99.43	0.00	27900.3			
	1	62.42	-0.00	-29571.8			
Per Via Statica Equivalente					152.76	0.00	40162.0
Per Via Modale					121.69	0.00	-38942.3
Variazione					-31.07	0.00	-79104.3

Direzione di Ingresso del Sisma 2 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
4	-4.90459e+01	100.0	2.40550e+03	57.5	57.5
3	4.21800e+01	86.0	1.77916e+03	42.5	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]

1	10.20	3.45	3.45	0.17	-0.00	0.17	-721.9	-0.0	124.5

Direzione di Ingresso del Sisma 2 Angolo 0.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	4	86.06	0.00	25129.5			
	3	77.90	-0.00	-33918.2			
Per Via Statica Equivalente					149.71	0.00	15257.5
Per Via Modale					119.00	0.00	-41167.6
Variazione					-30.71	0.00	-56425.1

Direzione di Ingresso del Sisma 3 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
5	6.23120e+01	100.0	3.88279e+03	92.8	92.8
6	-1.70993e+01	27.4	2.92385e+02	7.0	99.8
7	3.07946e+00	4.9	9.48309e+00	0.2	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.20	3.45	10.20	0.51	0.51	0.00	-0.0	2134.2	1088.4

Direzione di Ingresso del Sisma 3 Angolo 90.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	5	-25.19	184.16	25481.8			
	6	29.40	12.54	-11972.1			
	7	-5.57	0.34	-1616.2			
Per Via Statica Equivalente					-0.00	198.47	10135.3
Per Via Modale					-34.38	187.40	25648.0
Variazione					-34.38	-11.08	15512.7

Direzione di Ingresso del Sisma 4 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
8	6.23120e+01	100.0	3.88279e+03	92.8	92.8
9	-1.70992e+01	27.4	2.92383e+02	7.0	99.8
10	3.07948e+00	4.9	9.48321e+00	0.2	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.20	3.45	10.20	0.51	-0.51	-0.00	0.0	-2134.2	1088.4

Direzione di Ingresso del Sisma 4 Angolo 90.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	8	25.19	184.16	-25481.7			
	9	-29.40	12.54	11972.1			
	10	5.57	0.34	1616.2			
Per Via Statica Equivalente					-0.00	198.47	-10122.2
Per Via Modale					34.38	187.40	-25648.0
Variazione					34.38	-11.08	-15525.8

Direzione di Ingresso del Sisma 5 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
12	-4.90459e+01	100.0	2.40550e+03	57.5	57.5
11	4.21800e+01	86.0	1.77916e+03	42.5	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.20	3.45	3.45	0.17	-0.00	0.17	-721.9	-0.0	124.5

Direzione di Ingresso del Sisma 5 Angolo 180.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	12	-86.06	-0.00	-25129.5			
	11	-77.90	0.00	33918.2			
Per Via Statica Equivalente					-149.71	-0.00	-39360.3
Per Via Modale					-119.00	0.00	41167.6
Variazione					30.71	0.00	80527.9

Direzione di Ingresso del Sisma 6 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
14	-5.21890e+01	100.0	2.72369e+03	65.1	65.1
13	3.82226e+01	73.2	1.46097e+03	34.9	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.20	3.45	3.45	0.17	0.00	-0.17	721.9	0.0	124.5

Direzione di Ingresso del Sisma 6 Angolo 180.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	14	-99.43	-0.00	-27900.3			
	13	-62.42	0.00	29571.8			
Per Via Statica Equivalente					-152.76	-0.00	-15568.2
Per Via Modale					-121.69	0.00	38942.3
Variazione					31.07	0.00	54510.5

Direzione di Ingresso del Sisma 7 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
15	6.23120e+01	100.0	3.88279e+03	92.8	92.8
16	-1.70992e+01	27.4	2.92383e+02	7.0	99.8
17	3.07950e+00	4.9	9.48335e+00	0.2	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.20	3.45	10.20	0.51	-0.51	-0.00	0.0	-2134.2	1088.4

Direzione di Ingresso del Sisma 7 Angolo 270.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	15	-25.19	-184.16	25481.7			
	16	29.40	-12.54	-11972.0			
	17	-5.57	-0.34	-1616.2			
Per Via Statica Equivalente					0.00	-198.47	-10132.4
Per Via Modale					-34.38	-187.40	25648.0
Variazione					-34.38	11.08	35780.4

Direzione di Ingresso del Sisma 8 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
18	6.23120e+01	100.0	3.88279e+03	92.8	92.8
19	-1.70993e+01	27.4	2.92385e+02	7.0	99.8
20	3.07944e+00	4.9	9.48295e+00	0.2	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.20	3.45	10.20	0.51	0.51	0.00	-0.0	2134.2	1088.4

Direzione di Ingresso del Sisma 8 Angolo 270.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	18	25.19	-184.16	-25481.8			
	19	-29.40	-12.54	11972.1			
	20	5.57	-0.34	1616.2			
Per Via Statica Equivalente					0.00	-198.47	10122.2
Per Via Modale					34.38	-187.40	-25648.0
Variazione					34.38	11.08	-35770.2

Direzione di Ingresso del Sisma 9 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
22	-5.21890e+01	100.0	2.72369e+03	65.1	65.1
21	3.82226e+01	73.2	1.46097e+03	34.9	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.20	3.45	3.45	0.17	0.00	-0.17	721.9	0.0	124.5

Direzione di Ingresso del Sisma 9 Angolo 0.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	22	42.28	0.00	11864.0			
	21	26.83	-0.00	-12712.0			
Per Via Statica Equivalente					64.96	0.00	17078.0
Per Via Modale					51.91	0.00	-16655.7
Variazione					-13.04	0.00	-33733.7

Direzione di Ingresso del Sisma 10 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
24	-4.90459e+01	100.0	2.40550e+03	57.5	57.5
23	4.21800e+01	86.0	1.77916e+03	42.5	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.20	3.45	3.45	0.17	-0.00	0.17	-721.9	-0.0	124.5

Direzione di Ingresso del Sisma 10 Angolo 0.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	24	36.54	0.00	10669.5			
	23	33.54	-0.00	-14602.7			
Per Via Statica Equivalente					63.56	0.00	6478.0
Per Via Modale					50.85	0.00	-17639.3
Variazione					-12.72	0.00	-24117.3

Direzione di Ingresso del Sisma 11 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
25	6.23120e+01	100.0	3.88279e+03	92.8	92.8
26	-1.70993e+01	27.4	2.92385e+02	7.0	99.8
27	3.07946e+00	4.9	9.48309e+00	0.2	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta	Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp

	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m²]
1	10.20	3.45	10.20	0.51	0.51	0.00	-0.0	2134.2	1088.4

Direzione di Ingresso del Sisma 11 Angolo 90.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	25	-10.67	78.00	10793.2			
	26	12.64	5.39	-5147.7			
	27	-2.36	0.15	-686.7			
Per Via Statica Equivalente					-0.00	84.07	4293.0
Per Via Modale					-14.69	79.40	10882.9
Variazione					-14.69	-4.67	6590.0

Direzione di Ingresso del Sisma 12 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
28	6.23120e+01	100.0	3.88279e+03	92.8	92.8
29	-1.70992e+01	27.4	2.92383e+02	7.0	99.8
30	3.07948e+00	4.9	9.48321e+00	0.2	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.20	3.45	10.20	0.51	-0.51	-0.00	0.0	-2134.2	1088.4

Direzione di Ingresso del Sisma 12 Angolo 90.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	28	10.67	78.00	-10793.2			
	29	-12.64	5.39	5147.7			
	30	2.36	0.15	686.7			
Per Via Statica Equivalente					-0.00	84.07	-4287.4
Per Via Modale					14.69	79.40	-10882.9
Variazione					14.69	-4.67	-6595.5

Direzione di Ingresso del Sisma 13 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
32	-4.90459e+01	100.0	2.40550e+03	57.5	57.5
31	4.21800e+01	86.0	1.77916e+03	42.5	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.20	3.45	3.45	0.17	-0.00	0.17	-721.9	-0.0	124.5

Direzione di Ingresso del Sisma 13 Angolo 180.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	32	-36.54	-0.00	-10669.5			
	31	-33.54	0.00	14602.7			
Per Via Statica Equivalente					-63.56	-0.00	-16711.5
Per Via Modale					-50.85	0.00	17639.3
Variazione					12.72	0.00	34350.8

Direzione di Ingresso del Sisma 14 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
34	-5.21890e+01	100.0	2.72369e+03	65.1	65.1
33	3.82226e+01	73.2	1.46097e+03	34.9	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta	Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp

	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m²]
1	10.20	3.45	3.45	0.17	0.00	-0.17	721.9	0.0	124.5

Direzione di Ingresso del Sisma 14 Angolo 180.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	34	-42.28	-0.00	-11864.0			
	33	-26.83	0.00	12712.0			
Per Via Statica Equivalente					-64.96	-0.00	-6620.0
Per Via Modale					-51.91	0.00	16655.7
Variazione					13.04	0.00	23275.8

Direzione di Ingresso del Sisma 15 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
35	6.23120e+01	100.0	3.88279e+03	92.8	92.8
36	-1.70992e+01	27.4	2.92383e+02	7.0	99.8
37	3.07950e+00	4.9	9.48335e+00	0.2	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.20	3.45	10.20	0.51	-0.51	-0.00	0.0	-2134.2	1088.4

Direzione di Ingresso del Sisma 15 Angolo 270.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	35	-10.67	-78.00	10793.2			
	36	12.64	-5.39	-5147.7			
	37	-2.36	-0.15	-686.7			
Per Via Statica Equivalente					0.00	-84.07	-4291.7
Per Via Modale					-14.69	-79.40	10882.9
Variazione					-14.69	4.67	15174.7

Direzione di Ingresso del Sisma 16 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
38	6.23120e+01	100.0	3.88279e+03	92.8	92.8
39	-1.70993e+01	27.4	2.92385e+02	7.0	99.8
40	3.07944e+00	4.9	9.48295e+00	0.2	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.20	3.45	10.20	0.51	0.51	0.00	-0.0	2134.2	1088.4

Direzione di Ingresso del Sisma 16 Angolo 270.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	38	10.67	-78.00	-10793.2			
	39	-12.64	-5.39	5147.7			
	40	2.36	-0.15	686.7			
Per Via Statica Equivalente					0.00	-84.07	4287.4
Per Via Modale					14.69	-79.40	-10882.9
Variazione					14.69	4.67	-15170.4

Componenti di spostamento Modale

Nodo	Modo	Ux	Uy	Uz	Rx	Ry	Rz
1	1	1.7168662803e-03	7.4283652208e-03	3.6782016389e-03	-1.9219460161e-03	6.2419655161e-04	-1.4401341319e-03
	2	-1.2926751140e-02	9.7257052545e-03	-1.7763998391e-03	-8.0932259940e-04	-6.1404137858e-04	-1.8816170728e-03
	3	1.8883486881e-03	6.8979492779e-03	3.5433143621e-03	-1.8177920123e-03	6.0736363220e-04	-1.3373781881e-03
	4	-1.3469142361e-02	1.0492186084e-02	-1.7094557914e-03	-9.2669210629e-04	-6.1750284810e-04	-2.0300293492e-03
	5	6.9266838908e-06	3.8586543570e-03	7.7243974424e-04	-1.0504778958e-03	-1.7749732817e-04	3.8918682245e-04
	6	-2.0318622947e-03	-9.1141504265e-03	-4.1813238471e-03	2.4099148637e-03	-5.9279485954e-04	1.3156334518e-03
	7	-1.3162563339e-02	1.1107864064e-02	-1.4444136825e-03	-1.1268383149e-03	-6.1196761947e-04	-1.9817210847e-03
	8	-1.6102015590e-04	8.5201361181e-03	2.5396084248e-03	-2.1164577669e-03	9.6741298276e-05	-5.1421230707e-04
	9	2.0930234531e-03	4.2008521482e-03	2.8667299097e-03	-1.1529180429e-03	6.2484791409e-04	-1.2660092912e-03
	10	1.3139834713e-02	-9.2820052431e-03	1.9329374375e-03	6.5971858569e-04	6.0005622560e-04	1.9632798544e-03
	11	-1.8883488141e-03	-6.8979396738e-03	-3.5433117884e-03	1.8177895574e-03	-6.0736369166e-04	1.3373780808e-03
	12	1.3469142364e-02	-1.0492180332e-02	1.7094573522e-03	9.2669062441e-04	6.1750281181e-04	2.0300293068e-03
	13	-1.7168663975e-03	-7.4283525690e-03	-3.6781982462e-03	1.9219427728e-03	-6.2419663589e-04	1.4401340192e-03
	14	1.2926750963e-02	-9.7256958712e-03	1.7764023371e-03	8.0932020847e-04	6.1404131931e-04	1.8816169572e-03
	15	1.6102018143e-04	-8.5201361280e-03	-2.5396084181e-03	2.1164577663e-03	-9.6741296724e-05	5.1421230964e-04

	16	-2.0930234494e-03	-4.2008521948e-03	-2.8667299279e-03	1.1529180530e-03	-6.2484791741e-04	1.2660093023e-03
	17	-1.3139834641e-02	9.2820051304e-03	-1.9329374479e-03	-6.5971856705e-04	-6.0005622429e-04	-1.9632798366e-03
	18	-6.9266665608e-06	-3.8586542291e-03	-7.7243969109e-04	1.0504778631e-03	1.7749733507e-04	-3.8918683991e-04
	19	2.0318623229e-03	9.1141504217e-03	4.1813238453e-03	-2.4099148682e-03	5.9279485519e-04	-1.3156334326e-03
	20	1.3162563407e-02	-1.1107864194e-02	1.4444136651e-03	1.1268383380e-03	6.1196762004e-04	1.9817211039e-03
	21	1.7168662803e-03	7.4283652208e-03	3.6782016389e-03	-1.9219460161e-03	6.2419655161e-04	-1.4401341319e-03
	22	-1.2926751140e-02	9.7257052545e-03	-1.7763998391e-03	-8.0932259940e-04	-6.1404137858e-04	-1.8816170728e-03
	23	1.8883486881e-03	6.8979492779e-03	3.5433143621e-03	-1.8177920123e-03	6.0736363220e-04	-1.3373781881e-03
	24	-1.3469142361e-02	1.0492186084e-02	-1.7094557914e-03	-9.2669210629e-04	-6.1750284810e-04	-2.0300293492e-03
	25	6.9266838908e-06	3.8586543570e-03	7.7243974424e-04	-1.0504778958e-03	-1.7749732817e-04	3.8918682245e-04
	26	-2.0318622947e-03	-9.1141504265e-03	-4.1813238471e-03	2.4099148637e-03	-5.9279485954e-04	1.3156334518e-03
	27	-1.3162563339e-02	1.1107864064e-02	-1.4444136825e-03	-1.1268383149e-03	-6.1196761947e-04	-1.9817210847e-03
	28	-1.6102015590e-04	8.5201361181e-03	2.5396084248e-03	-2.1164577669e-03	9.6741298276e-05	-5.1421230707e-04
	29	2.0930234531e-03	4.2008521482e-03	2.8667299097e-03	-1.1529180429e-03	6.2484791409e-04	-1.2660092912e-03
	30	1.3139834713e-02	-9.2820052431e-03	1.9329374375e-03	6.5971858569e-04	6.0005622560e-04	1.9632798544e-03
	31	-1.8883488141e-03	-6.8979396738e-03	-3.5433117884e-03	1.8177895574e-03	-6.0736369166e-04	1.3373780808e-03
	32	1.3469142364e-02	-1.0492180332e-02	1.7094573522e-03	9.2669062441e-04	6.1750281181e-04	2.0300293068e-03
	33	-1.7168663975e-03	-7.4283525690e-03	-3.6781982462e-03	1.9219427728e-03	-6.2419663589e-04	1.4401340192e-03
	34	1.2926750963e-02	-9.7256958712e-03	1.7764023371e-03	8.0932020847e-04	6.1404131931e-04	1.8816169572e-03
	35	1.6102018143e-04	-8.5201361280e-03	-2.5396084181e-03	2.1164577663e-03	-9.6741296724e-05	5.1421230964e-04
	36	-2.0930234494e-03	-4.2008521948e-03	-2.8667299279e-03	1.1529180530e-03	-6.2484791741e-04	1.2660093023e-03
	37	-1.3139834641e-02	9.2820051304e-03	-1.9329374479e-03	-6.5971856705e-04	-6.0005622429e-04	-1.9632798366e-03
	38	-6.9266665608e-06	-3.8586542291e-03	-7.7243969109e-04	1.0504778631e-03	1.7749733507e-04	-3.8918683991e-04
	39	2.0318623229e-03	9.1141504217e-03	4.1813238453e-03	-2.4099148682e-03	5.9279485519e-04	-1.3156334326e-03
	40	1.3162563407e-02	-1.1107864194e-02	1.4444136651e-03	1.1268383380e-03	6.1196762004e-04	1.9817211039e-03
2	1	1.6993183565e-03	3.7112637367e-03	1.8741541524e-03	-1.0300977047e-03	7.5731069805e-04	-1.4560611621e-03
	2	-1.2965328770e-02	4.8589244775e-03	-7.9380649866e-04	-3.8315048968e-04	-4.2794649916e-04	-1.9219218590e-03
	3	1.8723561302e-03	3.4462663241e-03	1.8032676956e-03	-9.7525567184e-04	7.3074394843e-04	-1.3517909936e-03
	4	-1.3510270481e-02	5.2418587953e-03	-7.5441781203e-04	-4.4365634368e-04	-4.1711270927e-04	-2.0728999035e-03
	5	2.5930140189e-05	4.8502520654e-03	1.1732439059e-03	-9.3026269668e-04	-1.4581934364e-04	3.9752497647e-04
	6	-2.0217771456e-03	-5.7134507034e-03	-2.4379390946e-03	1.4383183103e-03	-7.4103093268e-04	1.3282270848e-03
	7	-1.3200695259e-02	5.9805156034e-03	-5.0653400713e-04	-6.0607923454e-04	-4.0630070415e-04	-2.0230836277e-03
	8	-1.5430890546e-04	7.1791532026e-03	2.0828054079e-03	-1.4974376335e-03	2.1292112798e-04	-5.1746511194e-04
	9	2.0727318108e-03	9.3882774054e-04	1.1455718838e-03	-4.7473334421e-04	7.1439735488e-04	-1.2806213647e-03
	10	1.3181759524e-02	-4.2061909978e-03	9.8679788722e-04	2.4799598069e-04	4.1619818867e-04	2.0053924796e-03
	11	-1.8723562366e-03	-3.4462570177e-03	-1.8032651744e-03	9.7525379284e-04	-7.3074389282e-04	1.3517908900e-03
	12	1.3510270496e-02	-5.2418531658e-03	7.5441934616e-04	4.4365520474e-04	4.1711274109e-04	2.0728998638e-03
	13	-1.6993184470e-03	-3.7112514032e-03	-1.8741508108e-03	1.0300952149e-03	-7.5731063175e-04	1.4560610549e-03
	14	1.2965328611e-02	-4.8589154128e-03	7.9380894660e-04	3.8314866163e-04	4.2794655272e-04	1.9219217468e-03
	15	1.5430893107e-04	-7.1791532058e-03	-2.0828054042e-03	1.4974376328e-03	-2.1292112665e-04	5.1746511457e-04
	16	-2.0727318069e-03	-9.3882775843e-04	-1.1455718918e-03	4.7473334892e-04	-7.1439735912e-04	1.2806213759e-03
	17	-1.3181759452e-02	4.2061909309e-03	-9.8679789600e-04	-2.4799596970e-04	-4.1619818932e-04	-2.0053924615e-03
	18	-2.5930122986e-05	-4.8502519827e-03	-1.1732438738e-03	9.3026267682e-04	1.4581935259e-04	-3.9752499410e-04
	19	2.0217771742e-03	5.7134507479e-03	2.4379391059e-03	-1.4383183187e-03	7.4103092761e-04	-1.3282270653e-03
	20	1.3200695328e-02	-5.9805156831e-03	5.0653399354e-04	6.0607924854e-04	4.0630070252e-04	2.0230836472e-03
	21	1.6993183565e-03	3.7112637367e-03	1.8741541524e-03	-1.0300977047e-03	7.5731069805e-04	-1.4560611621e-03
	22	-1.2965328770e-02	4.8589244775e-03	-7.9380649866e-04	-3.8315048968e-04	-4.2794649916e-04	-1.9219218590e-03
	23	1.8723561302e-03	3.4462663241e-03	1.8032676956e-03	-9.7525567184e-04	7.3074394843e-04	-1.3517909936e-03
	24	-1.3510270481e-02	5.2418587953e-03	-7.5441781203e-04	-4.4365634368e-04	-4.1711270927e-04	-2.0728999035e-03
	25	2.5930140189e-05	4.8502520654e-03	1.1732439059e-03	-9.3026269668e-04	-1.4581934364e-04	3.9752497647e-04
	26	-2.0217771456e-03	-5.7134507034e-03	-2.4379390946e-03	1.4383183103e-03	-7.4103093268e-04	1.3282270848e-03
	27	-1.3200695259e-02	5.9805156034e-03	-5.0653400713e-04	-6.0607923454e-04	-4.0630070415e-04	-2.0230836277e-03
	28	-1.5430890546e-04	7.1791532026e-03	2.0828054079e-03	-1.4974376335e-03	2.1292112798e-04	-5.1746511194e-04
	29	2.0727318108e-03	9.3882774054e-04	1.1455718838e-03	-4.7473334421e-04	7.1439735488e-04	-1.2806213647e-03
	30	1.3181759524e-02	-4.2061909978e-03	9.8679788722e-04	2.4799598069e-04	4.1619818867e-04	2.0053924796e-03
	31	-1.8723562366e-03	-3.4462570177e-03	-1.8032651744e-03	9.7525379284e-04	-7.3074389282e-04	1.3517908900e-03
	32	1.3510270496e-02	-5.2418531658e-03	7.5441934616e-04	4.4365520474e-04	4.1711274109e-04	2.0728998638e-03
	33	-1.6993184470e-03	-3.7112514032e-03	-1.8741508108e-03	1.0300952149e-03	-7.5731063175e-04	1.4560610549e-03

	34	1.2965328611e-02	-4.8589154128e-03	7.9380894660e-04	3.8314866163e-04	4.2794655272e-04	1.9219217468e-03
	35	1.5430893107e-04	-7.1791532058e-03	-2.0828054042e-03	1.4974376328e-03	-2.1292112665e-04	5.1746511457e-04
	36	-2.0727318069e-03	-9.3882775843e-04	-1.1455718918e-03	4.7473334892e-04	-7.1439735912e-04	1.2806213759e-03
	37	-1.3181759452e-02	4.2061909309e-03	-9.8679789600e-04	-2.4799596970e-04	-4.1619818932e-04	-2.0053924615e-03
	38	-2.5930122986e-05	-4.8502519827e-03	-1.1732438738e-03	9.3026267682e-04	1.4581935259e-04	-3.9752499410e-04
	39	2.0217771742e-03	5.7134507479e-03	2.4379391059e-03	-1.4383183187e-03	7.4103092761e-04	-1.3282270653e-03
	40	1.3200695328e-02	-5.9805156831e-03	5.0653399354e-04	6.0607924854e-04	4.0630070252e-04	2.0230836472e-03
3	1	1.7041708268e-03	-6.5842475783e-10	-1.5805826966e-10	1.0771564765e-10	7.2455170702e-04	-1.4462836616e-03
	2	-1.2973566194e-02	-1.0394963867e-09	-3.1684267345e-10	1.9212387036e-10	-4.3586340616e-04	-1.9088144082e-03
	3	1.8771448721e-03	-4.5755957005e-10	-1.0444187344e-10	7.4287524467e-11	6.9964632375e-04	-1.3427175776e-03
	4	-1.3518699060e-02	-8.4269973830e-10	-2.6535864640e-10	1.6072127748e-10	-4.2675143549e-04	-2.0587690641e-03
	5	8.9195742026e-05	5.9345307730e-03	1.5861172855e-03	-9.7637933328e-04	-1.7052683971e-04	4.5441487451e-04
	6	-2.0521072614e-03	-2.3554916755e-03	-6.2955039255e-04	3.8753753005e-04	-6.9714755351e-04	1.2956718141e-03
	7	-1.3199478362e-02	8.7533758936e-04	2.3395073746e-04	-1.4401499228e-04	-4.2046840278e-04	-2.0005062776e-03
	8	-8.9195642031e-05	5.9345317003e-03	1.5861175395e-03	-9.7637948443e-04	1.7052669006e-04	-4.5441445941e-04
	9	2.0521067313e-03	-2.3554892956e-03	-6.2954972003e-04	3.8753713588e-04	6.9714758218e-04	-1.2956720148e-03
	10	1.3199478371e-02	8.7533635356e-04	2.3395048569e-04	-1.4401483204e-04	4.2046842214e-04	2.0005062323e-03
	11	-1.8771448794e-03	9.6121494305e-09	2.5511817766e-09	-1.5804474364e-09	-6.9964632010e-04	1.3427175667e-03
	12	1.3518699136e-02	6.4394120511e-09	1.7611874675e-09	-1.0815209914e-09	4.2675143583e-04	2.0587690809e-03
	13	-1.7041707852e-03	1.2867944021e-08	3.4212867134e-09	-2.1164881561e-09	-7.2455170952e-04	1.4462836776e-03
	14	1.2973566131e-02	9.9272881565e-09	2.6922756736e-09	-1.6543887930e-09	4.3586340917e-04	1.9088143860e-03
	15	8.9195667693e-05	-5.9345316968e-03	-1.5861175385e-03	9.7637948386e-04	-1.7052668876e-04	4.5441446206e-04
	16	-2.0521067273e-03	2.3554893065e-03	6.2954972296e-04	-3.8753713768e-04	-6.9714758627e-04	1.2956720261e-03
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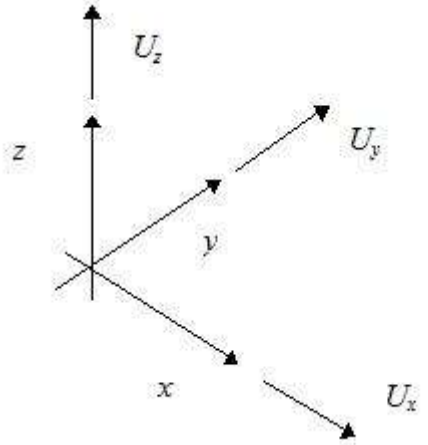
	10	5.9126475257e-03	1.5968348335e-02	-4.9260930106e-03	-1.0630800928e-03	4.0331816777e-04	2.7152325286e-03
	11	-1.6779092796e-02	1.6622470277e-02	-3.4169817779e-03	-2.1494837967e-03	-4.6498850144e-04	3.2593034681e-03
	12	5.9588498640e-03	1.4295504069e-02	-4.4230689263e-03	-8.2012915772e-04	4.4505174213e-04	2.8030370576e-03
	13	-1.7459238675e-02	1.7687712531e-02	-3.6647251218e-03	-2.2673016257e-03	-4.7841243035e-04	3.4681729601e-03
	14	6.3741878826e-03	1.2954276730e-02	-4.0790314602e-03	-6.9403348594e-04	4.4367656664e-04	2.5400496377e-03
	15	-4.2785258998e-03	-9.2464556472e-03	3.1600589883e-03	1.2512947681e-03	1.2168900856e-04	1.0060856138e-03
	16	-1.6656394836e-02	2.1910950601e-02	-5.0081793489e-03	-2.8524860376e-03	-5.5614957852e-04	3.1773227817e-03
	17	-5.9126475591e-03	-1.5968348234e-02	4.9260929858e-03	1.0630800859e-03	-4.0331816622e-04	-2.7152324987e-03
	18	4.2785299772e-03	-1.9508531009e-02	5.4007460340e-03	2.4874220508e-03	3.3408945488e-04	-1.0060865658e-03
	19	1.6656393658e-02	-1.0497732178e-02	1.6102873761e-03	1.3685420160e-03	3.7524536162e-04	-3.1773223378e-03
	20	5.9126470058e-03	1.1727020069e-02	-3.6633837680e-03	-5.1162354086e-04	4.7054497521e-04	2.7152326653e-03
	21	1.7459238598e-02	-1.7687682797e-02	3.6647162778e-03	2.2672977638e-03	4.7841196046e-04	-3.4681729298e-03
	22	-6.3741877859e-03	-1.2954255409e-02	4.0790251016e-03	6.9403070777e-04	-4.4367690685e-04	-2.5400496792e-03
	23	1.6779092890e-02	-1.6622448219e-02	3.4169752018e-03	2.1494809272e-03	4.6498815210e-04	-3.2593034917e-03
	24	-5.9588498818e-03	-1.4295490370e-02	4.4230648518e-03	8.2012738290e-04	-4.4505195585e-04	-2.8030370302e-03
	25	-4.2785297753e-03	1.9508530893e-02	-5.4007460183e-03	-2.4874220364e-03	-3.3408945086e-04	1.0060865251e-03
	26	-1.6656393800e-02	1.0497732620e-02	-1.6102874935e-03	-1.3685420697e-03	-3.7524536821e-04	3.1773223794e-03
	27	-5.9126470601e-03	-1.1727019973e-02	3.6633837464e-03	5.1162353441e-04	-4.7054497392e-04	-2.7152326319e-03
	28	4.2785259234e-03	9.2464556684e-03	-3.1600589960e-03	-1.2512947690e-03	-1.2168900754e-04	-1.0060856112e-03
	29	1.6656394733e-02	-2.1910950448e-02	5.0081793132e-03	2.8524860190e-03	5.5614957558e-04	-3.1773227569e-03
	30	5.9126475257e-03	1.5968348335e-02	-4.9260930106e-03	-1.0630800928e-03	4.0331816777e-04	2.7152325286e-03
	31	-1.6779092796e-02	1.6622470277e-02	-3.4169817779e-03	-2.1494837967e-03	-4.6498850144e-04	3.2593034681e-03
	32	5.9588498640e-03	1.4295504069e-02	-4.4230689263e-03	-8.2012915772e-04	4.4505174213e-04	2.8030370576e-03
	33	-1.7459238675e-02	1.7687712531e-02	-3.6647251218e-03	-2.2673016257e-03	-4.7841243035e-04	3.4681729601e-03
	34	6.3741878826e-03	1.2954276730e-02	-4.0790314602e-03	-6.9403348594e-04	4.4367656664e-04	2.5400496377e-03
	35	-4.2785258998e-03	-9.2464556472e-03	3.1600589883e-03	1.2512947681e-03	1.2168900856e-04	1.0060856138e-03

36	-1.6656394836e-02	2.1910950601e-02	-5.0081793489e-03	-2.8524860376e-03	-5.5614957852e-04	3.1773227817e-03
37	-5.9126475591e-03	-1.5968348234e-02	4.9260929858e-03	1.0630800859e-03	-4.0331816622e-04	-2.7152324987e-03
38	4.2785299772e-03	-1.9508531009e-02	5.4007460340e-03	2.4874220508e-03	3.3408945488e-04	-1.0060865658e-03
39	1.6656393658e-02	-1.0497732178e-02	1.6102873761e-03	1.3685420160e-03	3.7524536162e-04	-3.1773223378e-03
40	5.9126470058e-03	1.1727020069e-02	-3.6633837680e-03	-5.1162354086e-04	4.7054497521e-04	2.7152326653e-03

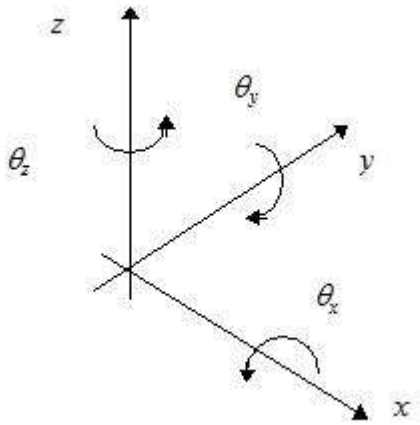
Spostamenti nodali

Convenzioni adottate

La terna di riferimento generale è destrorsa per cui si hanno i seguenti segni positivi per le componenti di spostamento nodale:



e per quanto riguarda le rotazioni:



Nel seguito vengono riportate, per ogni nodo (con esclusione dei nodi *K* che definiscono l'orientamento delle aste e quindi, essendo bloccati, hanno componenti di spostamento nulle), le componenti di spostamento in tutte le combinazioni di carico definite.

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
1	SLU Statiche -	-0.00	-0.01	-0.11	-0.00	0.00	-0.00
	SLU Statiche +	-0.00	0.00	-0.07	-0.00	0.00	-0.00
	SLV -	-0.05	-0.15	-0.12	-0.02	-0.00	-0.01
	SLV +	0.05	0.13	-0.03	0.02	0.00	0.01
	SLE Rare -	-0.00	-0.01	-0.08	-0.00	0.00	-0.00
	SLE Rare +	-0.00	-0.01	-0.07	-0.00	0.00	-0.00
	SLE Frequenti -	-0.00	-0.01	-0.07	-0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Frequenti +	-0.00	-0.01	-0.07	-0.00	0.00	-0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.07	-0.00	0.00	-0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.07	-0.00	0.00	-0.00
	SLD -	-0.02	-0.07	-0.09	-0.01	-0.00	-0.00
	SLD +	0.02	0.05	-0.05	0.01	0.00	0.00
2	SLU Statiche -	-0.00	-0.01	-0.11	-0.01	0.00	-0.00
	SLU Statiche +	-0.00	0.00	-0.07	-0.01	0.00	-0.00
	SLV -	-0.05	-0.12	-0.11	-0.02	-0.00	-0.01
	SLV +	0.05	0.11	-0.04	0.01	0.00	0.01
	SLE Rare -	-0.00	-0.01	-0.08	-0.00	0.00	-0.00
	SLE Rare +	-0.00	-0.01	-0.08	-0.00	0.00	-0.00
	SLE Frequenti -	-0.00	-0.01	-0.08	-0.00	0.00	-0.00
	SLE Frequenti +	-0.00	-0.01	-0.07	-0.00	0.00	-0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.07	-0.00	0.00	-0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.07	-0.00	0.00	-0.00
	SLD -	-0.02	-0.06	-0.09	-0.01	-0.00	-0.00
	SLD +	0.02	0.04	-0.06	0.00	0.00	0.00
3	SLU Statiche -	0.00	-0.01	-0.11	-0.01	0.00	0.00
	SLU Statiche +	0.00	-0.00	-0.07	-0.01	0.00	0.00
	SLV -	-0.05	-0.10	-0.10	-0.01	-0.00	-0.01
	SLV +	0.05	0.08	-0.05	0.01	0.00	0.01
	SLE Rare -	0.00	-0.01	-0.08	-0.00	0.00	0.00
	SLE Rare +	0.00	-0.01	-0.08	-0.00	0.00	0.00
	SLE Frequenti -	0.00	-0.01	-0.08	-0.00	0.00	0.00
	SLE Frequenti +	0.00	-0.01	-0.08	-0.00	0.00	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.08	-0.00	0.00	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.08	-0.00	0.00	0.00
	SLD -	-0.02	-0.05	-0.09	-0.01	-0.00	-0.00
	SLD +	0.02	0.03	-0.06	0.00	0.00	0.00
4	SLU Statiche -	0.00	-0.01	-0.11	-0.01	-0.00	0.00
	SLU Statiche +	0.00	0.00	-0.07	-0.01	-0.00	0.00
	SLV -	-0.05	-0.12	-0.11	-0.02	-0.00	-0.01
	SLV +	0.05	0.11	-0.04	0.01	0.00	0.01
	SLE Rare -	0.00	-0.01	-0.08	-0.00	-0.00	0.00
	SLE Rare +	0.00	-0.01	-0.08	-0.00	-0.00	0.00
	SLE Frequenti -	0.00	-0.01	-0.08	-0.00	-0.00	0.00
	SLE Frequenti +	0.00	-0.01	-0.07	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.07	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.07	-0.00	-0.00	0.00
	SLD -	-0.02	-0.06	-0.09	-0.01	-0.00	-0.00
	SLD +	0.02	0.04	-0.06	0.00	0.00	0.00
5	SLU Statiche -	0.00	-0.01	-0.11	-0.00	-0.00	0.00
	SLU Statiche +	0.00	0.00	-0.07	-0.00	-0.00	0.00
	SLV -	-0.05	-0.15	-0.12	-0.02	-0.00	-0.01
	SLV +	0.05	0.13	-0.03	0.02	0.00	0.01
	SLE Rare -	0.00	-0.01	-0.08	-0.00	-0.00	0.00
	SLE Rare +	0.00	-0.01	-0.07	-0.00	-0.00	0.00
	SLE Frequenti -	0.00	-0.01	-0.07	-0.00	-0.00	0.00
	SLE Frequenti +	0.00	-0.01	-0.07	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.07	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.07	-0.00	-0.00	0.00
	SLD -	-0.02	-0.07	-0.09	-0.01	-0.00	-0.00
	SLD +	0.02	0.05	-0.05	0.01	0.00	0.00
6	SLU Statiche -	-0.00	-0.01	-0.11	-0.00	0.00	-0.00
	SLU Statiche +	-0.00	0.00	-0.07	0.00	0.00	-0.00
	SLV -	-0.05	-0.15	-0.09	-0.02	-0.00	-0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLV +	0.04	0.13	-0.06	0.02	0.00	0.01
	SLE Rare -	-0.00	-0.01	-0.08	-0.00	0.00	-0.00
	SLE Rare +	-0.00	-0.01	-0.08	0.00	0.00	-0.00
	SLE Frequenti -	-0.00	-0.01	-0.07	0.00	0.00	-0.00
	SLE Frequenti +	-0.00	-0.01	-0.07	0.00	0.00	-0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.07	0.00	0.00	-0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.07	0.00	0.00	-0.00
	SLD -	-0.02	-0.07	-0.08	-0.01	-0.00	-0.00
	SLD +	0.02	0.05	-0.07	0.01	0.00	0.00
7	SLU Statiche -	-0.00	-0.01	-0.12	-0.00	0.00	-0.00
	SLU Statiche +	-0.00	-0.00	-0.08	0.00	0.00	-0.00
	SLV -	-0.05	-0.12	-0.08	-0.01	-0.00	-0.01
	SLV +	0.05	0.11	-0.07	0.01	0.00	0.01
	SLE Rare -	-0.00	-0.01	-0.08	0.00	0.00	-0.00
	SLE Rare +	-0.00	-0.01	-0.08	0.00	0.00	-0.00
	SLE Frequenti -	-0.00	-0.01	-0.08	0.00	0.00	-0.00
	SLE Frequenti +	-0.00	-0.01	-0.08	0.00	0.00	-0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.08	0.00	0.00	-0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.08	0.00	0.00	-0.00
	SLD -	-0.02	-0.06	-0.08	-0.00	-0.00	-0.00
	SLD +	0.02	0.04	-0.07	0.01	0.00	0.00
8	SLU Statiche -	0.00	-0.01	-0.12	-0.00	0.00	0.00
	SLU Statiche +	0.00	-0.00	-0.09	0.00	0.00	0.00
	SLV -	-0.05	-0.10	-0.09	-0.00	-0.00	-0.01
	SLV +	0.05	0.08	-0.07	0.01	0.00	0.01
	SLE Rare -	0.00	-0.01	-0.08	0.00	0.00	0.00
	SLE Rare +	0.00	-0.01	-0.08	0.00	0.00	0.00
	SLE Frequenti -	0.00	-0.01	-0.08	0.00	0.00	0.00
	SLE Frequenti +	0.00	-0.01	-0.08	0.00	0.00	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.08	0.00	0.00	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.08	0.00	0.00	0.00
	SLD -	-0.02	-0.05	-0.08	0.00	-0.00	-0.00
	SLD +	0.02	0.03	-0.07	0.00	0.00	0.00
9	SLU Statiche -	0.00	-0.01	-0.12	-0.00	-0.00	0.00
	SLU Statiche +	0.00	-0.00	-0.08	0.00	-0.00	0.00
	SLV -	-0.05	-0.12	-0.08	-0.01	-0.00	-0.01
	SLV +	0.05	0.11	-0.07	0.01	0.00	0.01
	SLE Rare -	0.00	-0.01	-0.08	0.00	-0.00	0.00
	SLE Rare +	0.00	-0.01	-0.08	0.00	-0.00	0.00
	SLE Frequenti -	0.00	-0.01	-0.08	0.00	-0.00	0.00
	SLE Frequenti +	0.00	-0.01	-0.08	0.00	-0.00	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.08	0.00	-0.00	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.08	0.00	-0.00	0.00
	SLD -	-0.02	-0.06	-0.08	-0.00	-0.00	-0.00
	SLD +	0.02	0.04	-0.07	0.01	0.00	0.00
10	SLU Statiche -	0.00	-0.01	-0.11	-0.00	-0.00	0.00
	SLU Statiche +	0.00	0.00	-0.07	0.00	-0.00	0.00
	SLV -	-0.04	-0.15	-0.09	-0.02	-0.00	-0.01
	SLV +	0.05	0.13	-0.06	0.02	0.00	0.01
	SLE Rare -	0.00	-0.01	-0.08	-0.00	-0.00	0.00
	SLE Rare +	0.00	-0.01	-0.08	0.00	-0.00	0.00
	SLE Frequenti -	0.00	-0.01	-0.07	0.00	-0.00	0.00
	SLE Frequenti +	0.00	-0.01	-0.07	0.00	-0.00	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.07	0.00	-0.00	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.07	0.00	-0.00	0.00
	SLD -	-0.02	-0.07	-0.08	-0.01	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLD +	0.02	0.05	-0.07	0.01	0.00	0.00
11	SLU Statiche -	0.00	-0.01	-0.10	0.00	-0.00	-0.00
	SLU Statiche +	0.00	0.00	-0.07	0.01	0.00	-0.00
	SLV -	-0.05	-0.15	-0.12	-0.01	-0.01	-0.01
	SLV +	0.05	0.14	-0.01	0.02	0.01	0.01
	SLE Rare -	0.00	-0.01	-0.07	0.00	-0.00	-0.00
	SLE Rare +	0.00	-0.01	-0.07	0.00	-0.00	-0.00
	SLE Frequenti -	0.00	-0.01	-0.07	0.00	-0.00	-0.00
	SLE Frequenti +	0.00	-0.01	-0.07	0.00	-0.00	-0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.07	0.00	-0.00	-0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.07	0.00	-0.00	-0.00
	SLD -	-0.02	-0.07	-0.09	-0.00	-0.00	-0.00
	SLD +	0.02	0.05	-0.04	0.01	0.00	0.00
12	SLU Statiche -	0.00	-0.01	-0.09	0.01	-0.00	-0.00
	SLU Statiche +	0.00	-0.00	-0.07	0.01	0.00	-0.00
	SLV -	-0.05	-0.12	-0.08	-0.00	-0.01	-0.01
	SLV +	0.05	0.11	-0.04	0.02	0.01	0.01
	SLE Rare -	0.00	-0.01	-0.06	0.01	-0.00	-0.00
	SLE Rare +	0.00	-0.01	-0.06	0.01	-0.00	-0.00
	SLE Frequenti -	0.00	-0.01	-0.06	0.01	-0.00	-0.00
	SLE Frequenti +	0.00	-0.01	-0.06	0.01	-0.00	-0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.06	0.01	-0.00	-0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.06	0.01	-0.00	-0.00
	SLD -	-0.02	-0.06	-0.07	0.00	-0.00	-0.00
	SLD +	0.02	0.04	-0.05	0.01	0.00	0.00
13	SLU Statiche -	0.00	-0.01	-0.09	0.01	0.00	0.00
	SLU Statiche +	0.00	-0.00	-0.08	0.02	0.00	0.00
	SLV -	-0.05	-0.10	-0.07	0.00	-0.00	-0.01
	SLV +	0.05	0.08	-0.05	0.02	0.00	0.01
	SLE Rare -	0.00	-0.01	-0.06	0.01	0.00	0.00
	SLE Rare +	0.00	-0.01	-0.06	0.01	0.00	0.00
	SLE Frequenti -	0.00	-0.01	-0.06	0.01	0.00	0.00
	SLE Frequenti +	0.00	-0.01	-0.06	0.01	0.00	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.06	0.01	0.00	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.06	0.01	0.00	0.00
	SLD -	-0.02	-0.05	-0.06	0.01	-0.00	-0.00
	SLD +	0.02	0.03	-0.06	0.01	0.00	0.00
14	SLU Statiche -	-0.00	-0.01	-0.09	0.01	-0.00	0.00
	SLU Statiche +	-0.00	-0.00	-0.07	0.01	0.00	0.00
	SLV -	-0.05	-0.12	-0.08	-0.00	-0.01	-0.01
	SLV +	0.05	0.11	-0.04	0.02	0.01	0.01
	SLE Rare -	-0.00	-0.01	-0.06	0.01	0.00	0.00
	SLE Rare +	-0.00	-0.01	-0.06	0.01	0.00	0.00
	SLE Frequenti -	-0.00	-0.01	-0.06	0.01	0.00	0.00
	SLE Frequenti +	-0.00	-0.01	-0.06	0.01	0.00	0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.06	0.01	0.00	0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.06	0.01	0.00	0.00
	SLD -	-0.02	-0.06	-0.07	0.00	-0.00	-0.00
	SLD +	0.02	0.04	-0.05	0.01	0.00	0.00
15	SLU Statiche -	-0.00	-0.01	-0.10	0.00	-0.00	0.00
	SLU Statiche +	-0.00	0.00	-0.07	0.01	0.00	0.00
	SLV -	-0.05	-0.15	-0.12	-0.01	-0.01	-0.01
	SLV +	0.05	0.14	-0.01	0.02	0.01	0.01
	SLE Rare -	-0.00	-0.01	-0.07	0.00	0.00	0.00
	SLE Rare +	-0.00	-0.01	-0.07	0.00	0.00	0.00
	SLE Frequenti -	-0.00	-0.01	-0.07	0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Frequenti +	-0.00	-0.01	-0.07	0.00	0.00	0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.07	0.00	0.00	0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.07	0.00	0.00	0.00
	SLD -	-0.02	-0.07	-0.09	-0.00	-0.00	-0.00
	SLD +	0.02	0.05	-0.04	0.01	0.00	0.00
16	SLU Statiche -	-0.00	-0.01	-0.11	-0.00	-0.00	0.00
	SLU Statiche +	-0.00	0.00	-0.07	-0.00	-0.00	0.00
	SLV -	-0.06	-0.24	-0.12	-0.02	-0.00	-0.01
	SLV +	0.06	0.22	-0.03	0.02	0.00	0.01
	SLE Rare -	-0.00	-0.01	-0.08	-0.00	-0.00	0.00
	SLE Rare +	-0.00	-0.00	-0.08	-0.00	-0.00	0.00
	SLE Frequenti -	-0.00	-0.01	-0.08	0.00	-0.00	0.00
	SLE Frequenti +	-0.00	-0.01	-0.07	0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.07	0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.07	0.00	-0.00	0.00
	SLD -	-0.02	-0.11	-0.09	-0.01	-0.00	-0.00
	SLD +	0.02	0.09	-0.05	0.01	0.00	0.01
17	SLU Statiche -	-0.00	-0.05	-0.11	0.01	0.00	-0.02
	SLU Statiche +	-0.00	-0.01	-0.07	0.02	0.00	-0.00
	SLV -	-0.06	-0.22	-0.11	-0.01	-0.00	-0.02
	SLV +	0.06	0.15	-0.04	0.04	0.00	0.00
	SLE Rare -	-0.00	-0.03	-0.08	0.02	0.00	-0.01
	SLE Rare +	-0.00	-0.03	-0.08	0.02	0.00	-0.01
	SLE Frequenti -	-0.00	-0.03	-0.08	0.01	0.00	-0.01
	SLE Frequenti +	-0.00	-0.03	-0.08	0.02	0.00	-0.01
	SLE Quasi Permanenti -	-0.00	-0.03	-0.08	0.01	0.00	-0.01
	SLE Quasi Permanenti +	-0.00	-0.03	-0.08	0.01	0.00	-0.01
	SLD -	-0.02	-0.11	-0.09	0.01	-0.00	-0.02
	SLD +	0.02	0.05	-0.06	0.02	0.00	-0.00
18	SLU Statiche -	0.00	-0.09	-0.11	0.02	0.00	-0.00
	SLU Statiche +	0.00	-0.02	-0.07	0.04	0.00	-0.00
	SLV -	-0.06	-0.20	-0.10	0.01	-0.00	-0.01
	SLV +	0.06	0.09	-0.05	0.04	0.00	0.01
	SLE Rare -	0.00	-0.06	-0.08	0.03	0.00	-0.00
	SLE Rare +	0.00	-0.06	-0.08	0.03	0.00	-0.00
	SLE Frequenti -	0.00	-0.06	-0.08	0.02	0.00	-0.00
	SLE Frequenti +	0.00	-0.05	-0.08	0.03	0.00	-0.00
	SLE Quasi Permanenti -	0.00	-0.05	-0.08	0.02	0.00	-0.00
	SLE Quasi Permanenti +	0.00	-0.05	-0.08	0.02	0.00	-0.00
	SLD -	-0.02	-0.11	-0.09	0.02	-0.00	-0.00
	SLD +	0.02	0.01	-0.07	0.03	0.00	0.00
19	SLU Statiche -	0.00	-0.05	-0.11	0.01	-0.00	0.00
	SLU Statiche +	0.00	-0.01	-0.07	0.02	-0.00	0.02
	SLV -	-0.06	-0.22	-0.11	-0.01	-0.00	-0.00
	SLV +	0.06	0.15	-0.04	0.04	0.00	0.02
	SLE Rare -	0.00	-0.03	-0.08	0.02	-0.00	0.01
	SLE Rare +	0.00	-0.03	-0.08	0.02	-0.00	0.01
	SLE Frequenti -	0.00	-0.03	-0.08	0.01	-0.00	0.01
	SLE Frequenti +	0.00	-0.03	-0.08	0.02	-0.00	0.01
	SLE Quasi Permanenti -	0.00	-0.03	-0.08	0.01	-0.00	0.01
	SLE Quasi Permanenti +	0.00	-0.03	-0.08	0.01	-0.00	0.01
	SLD -	-0.02	-0.11	-0.09	0.01	-0.00	0.00
	SLD +	0.02	0.05	-0.06	0.02	0.00	0.02
20	SLU Statiche -	0.00	-0.01	-0.11	-0.00	0.00	-0.00
	SLU Statiche +	0.00	0.00	-0.07	-0.00	0.00	-0.00
	SLV -	-0.06	-0.24	-0.12	-0.02	-0.00	-0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLV +	0.06	0.22	-0.03	0.02	0.00	0.01
	SLE Rare -	0.00	-0.01	-0.08	-0.00	0.00	-0.00
	SLE Rare +	0.00	-0.00	-0.08	-0.00	0.00	-0.00
	SLE Frequenti -	0.00	-0.01	-0.08	0.00	0.00	-0.00
	SLE Frequenti +	0.00	-0.01	-0.07	0.00	0.00	-0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.07	0.00	0.00	-0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.07	0.00	0.00	-0.00
	SLD -	-0.02	-0.11	-0.09	-0.01	-0.00	-0.01
	SLD +	0.02	0.09	-0.05	0.01	0.00	0.00
21	SLU Statiche -	-0.03	-0.01	-0.11	-0.00	-0.02	0.01
	SLU Statiche +	-0.01	0.00	-0.07	-0.00	-0.01	0.02
	SLV -	-0.08	-0.24	-0.09	-0.02	-0.02	0.00
	SLV +	0.05	0.22	-0.06	0.02	0.00	0.02
	SLE Rare -	-0.02	-0.01	-0.08	-0.00	-0.01	0.02
	SLE Rare +	-0.02	-0.01	-0.08	-0.00	-0.01	0.02
	SLE Frequenti -	-0.02	-0.01	-0.07	-0.00	-0.01	0.01
	SLE Frequenti +	-0.02	-0.01	-0.07	-0.00	-0.01	0.01
	SLE Quasi Permanenti -	-0.02	-0.01	-0.07	-0.00	-0.01	0.01
	SLE Quasi Permanenti +	-0.02	-0.01	-0.07	-0.00	-0.01	0.01
	SLD -	-0.05	-0.11	-0.08	-0.01	-0.01	0.01
	SLD +	0.01	0.09	-0.07	0.01	-0.00	0.02
22	SLU Statiche -	0.01	-0.01	-0.11	-0.00	0.01	-0.02
	SLU Statiche +	0.03	0.00	-0.07	-0.00	0.02	-0.01
	SLV -	-0.05	-0.24	-0.09	-0.02	-0.00	-0.02
	SLV +	0.08	0.22	-0.06	0.02	0.02	-0.00
	SLE Rare -	0.02	-0.01	-0.08	-0.00	0.01	-0.02
	SLE Rare +	0.02	-0.01	-0.08	-0.00	0.01	-0.02
	SLE Frequenti -	0.02	-0.01	-0.07	-0.00	0.01	-0.01
	SLE Frequenti +	0.02	-0.01	-0.07	-0.00	0.01	-0.01
	SLE Quasi Permanenti -	0.02	-0.01	-0.07	-0.00	0.01	-0.01
	SLE Quasi Permanenti +	0.02	-0.01	-0.07	-0.00	0.01	-0.01
	SLD -	-0.01	-0.11	-0.08	-0.01	0.00	-0.02
	SLD +	0.05	0.09	-0.07	0.01	0.01	-0.01
23	SLU Statiche -	-0.10	-0.01	-0.12	-0.00	-0.04	0.01
	SLU Statiche +	-0.03	0.00	-0.07	-0.00	-0.02	0.03
	SLV -	-0.14	-0.24	-0.14	-0.02	-0.04	0.00
	SLV +	0.03	0.22	-0.01	0.02	-0.01	0.03
	SLE Rare -	-0.07	-0.01	-0.08	-0.00	-0.03	0.02
	SLE Rare +	-0.06	-0.00	-0.08	-0.00	-0.03	0.02
	SLE Frequenti -	-0.06	-0.01	-0.08	-0.00	-0.03	0.01
	SLE Frequenti +	-0.05	-0.01	-0.07	-0.00	-0.02	0.02
	SLE Quasi Permanenti -	-0.05	-0.01	-0.07	-0.00	-0.02	0.01
	SLE Quasi Permanenti +	-0.05	-0.01	-0.07	-0.00	-0.02	0.01
	SLD -	-0.09	-0.11	-0.10	-0.01	-0.03	0.01
	SLD +	-0.02	0.09	-0.05	0.01	-0.02	0.02
24	SLU Statiche -	0.03	-0.01	-0.12	-0.00	0.02	-0.03
	SLU Statiche +	0.10	0.00	-0.07	-0.00	0.04	-0.01
	SLV -	-0.03	-0.24	-0.14	-0.02	0.01	-0.03
	SLV +	0.14	0.22	-0.01	0.02	0.04	-0.00
	SLE Rare -	0.06	-0.01	-0.08	-0.00	0.03	-0.02
	SLE Rare +	0.07	-0.00	-0.08	-0.00	0.03	-0.02
	SLE Frequenti -	0.05	-0.01	-0.08	-0.00	0.02	-0.02
	SLE Frequenti +	0.06	-0.01	-0.07	-0.00	0.03	-0.01
	SLE Quasi Permanenti -	0.05	-0.01	-0.07	-0.00	0.02	-0.01
	SLE Quasi Permanenti +	0.05	-0.01	-0.07	-0.00	0.02	-0.01
	SLD -	0.02	-0.11	-0.10	-0.01	0.02	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLD +	0.09	0.09	-0.05	0.01	0.03	-0.01
101	SLU Statiche -	0.00	-0.00	-0.11	-0.00	0.00	0.00
	SLU Statiche +	0.00	0.01	-0.07	-0.00	0.00	0.00
	SLV -	-0.07	-0.33	-0.12	-0.02	-0.00	-0.02
	SLV +	0.07	0.32	-0.02	0.02	0.00	0.02
	SLE Rare -	0.00	-0.00	-0.08	-0.00	0.00	0.00
	SLE Rare +	0.00	0.00	-0.08	-0.00	0.00	0.00
	SLE Frequenti -	0.00	-0.01	-0.07	-0.00	0.00	0.00
	SLE Frequenti +	0.00	-0.00	-0.07	-0.00	0.00	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.07	-0.00	0.00	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.07	-0.00	0.00	0.00
	SLD -	-0.03	-0.14	-0.09	-0.01	-0.00	-0.01
	SLD +	0.03	0.13	-0.05	0.01	0.00	0.01
102	SLU Statiche -	0.00	-0.00	-0.11	-0.05	0.00	0.00
	SLU Statiche +	0.00	0.01	-0.07	-0.02	0.00	0.00
	SLV -	-0.07	-0.28	-0.11	-0.05	-0.00	-0.02
	SLV +	0.07	0.26	-0.04	-0.01	0.00	0.02
	SLE Rare -	0.00	-0.00	-0.08	-0.04	0.00	0.00
	SLE Rare +	0.00	0.00	-0.08	-0.03	0.00	0.00
	SLE Frequenti -	0.00	-0.01	-0.08	-0.03	0.00	0.00
	SLE Frequenti +	0.00	-0.00	-0.08	-0.03	0.00	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.08	-0.03	0.00	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.08	-0.03	0.00	0.00
	SLD -	-0.03	-0.12	-0.09	-0.04	-0.00	-0.01
	SLD +	0.03	0.11	-0.06	-0.02	0.00	0.01
103	SLU Statiche -	0.00	-0.00	-0.11	-0.09	0.00	0.00
	SLU Statiche +	0.00	0.01	-0.07	-0.03	0.00	0.00
	SLV -	-0.07	-0.22	-0.10	-0.07	-0.00	-0.02
	SLV +	0.07	0.21	-0.05	-0.03	0.00	0.02
	SLE Rare -	0.00	-0.00	-0.08	-0.06	0.00	0.00
	SLE Rare +	0.00	0.00	-0.08	-0.05	0.00	0.00
	SLE Frequenti -	0.00	-0.01	-0.08	-0.05	0.00	0.00
	SLE Frequenti +	0.00	-0.00	-0.08	-0.05	0.00	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.08	-0.05	0.00	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.08	-0.05	0.00	0.00
	SLD -	-0.03	-0.10	-0.09	-0.06	-0.00	-0.01
	SLD +	0.03	0.09	-0.07	-0.04	0.00	0.01
104	SLU Statiche -	0.00	-0.00	-0.11	-0.05	-0.00	0.00
	SLU Statiche +	0.00	0.01	-0.07	-0.02	-0.00	0.00
	SLV -	-0.07	-0.28	-0.11	-0.05	-0.00	-0.02
	SLV +	0.07	0.26	-0.04	-0.01	0.00	0.02
	SLE Rare -	0.00	-0.00	-0.08	-0.04	-0.00	0.00
	SLE Rare +	0.00	0.00	-0.08	-0.03	-0.00	0.00
	SLE Frequenti -	0.00	-0.01	-0.08	-0.03	-0.00	0.00
	SLE Frequenti +	0.00	-0.00	-0.08	-0.03	-0.00	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.08	-0.03	-0.00	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.08	-0.03	-0.00	0.00
	SLD -	-0.03	-0.12	-0.09	-0.04	-0.00	-0.01
	SLD +	0.03	0.11	-0.06	-0.02	0.00	0.01
105	SLU Statiche -	0.00	-0.00	-0.11	-0.00	-0.00	0.00
	SLU Statiche +	0.00	0.01	-0.07	-0.00	-0.00	0.00
	SLV -	-0.07	-0.33	-0.12	-0.02	-0.00	-0.02
	SLV +	0.07	0.32	-0.02	0.02	0.00	0.02
	SLE Rare -	0.00	-0.00	-0.08	-0.00	-0.00	0.00
	SLE Rare +	0.00	0.00	-0.08	-0.00	-0.00	0.00
	SLE Frequenti -	0.00	-0.01	-0.07	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Frequenti +	0.00	-0.00	-0.07	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.07	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.07	-0.00	-0.00	0.00
	SLD -	-0.03	-0.14	-0.09	-0.01	-0.00	-0.01
	SLD +	0.03	0.13	-0.05	0.01	0.00	0.01
106	SLU Statiche -	0.00	-0.00	-0.11	-0.00	0.01	0.00
	SLU Statiche +	0.00	0.01	-0.07	-0.00	0.03	0.00
	SLV -	-0.09	-0.33	-0.09	-0.02	0.01	-0.02
	SLV +	0.09	0.32	-0.06	0.02	0.02	0.02
	SLE Rare -	0.00	-0.00	-0.08	-0.00	0.02	0.00
	SLE Rare +	0.00	0.00	-0.08	-0.00	0.02	0.00
	SLE Frequenti -	0.00	-0.01	-0.08	-0.00	0.02	0.00
	SLE Frequenti +	0.00	-0.00	-0.07	-0.00	0.02	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.07	-0.00	0.02	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.07	-0.00	0.02	0.00
	SLD -	-0.04	-0.14	-0.08	-0.01	0.02	-0.01
	SLD +	0.04	0.13	-0.07	0.01	0.02	0.01
107	SLU Statiche -	0.00	-0.00	-0.31	-0.10	0.02	0.00
	SLU Statiche +	0.00	0.01	-0.14	-0.04	0.05	0.00
	SLV -	-0.09	-0.28	-0.20	-0.08	0.03	-0.02
	SLV +	0.09	0.26	-0.17	-0.04	0.03	0.02
	SLE Rare -	0.00	-0.00	-0.22	-0.07	0.04	0.00
	SLE Rare +	0.00	0.00	-0.20	-0.07	0.04	0.00
	SLE Frequenti -	0.00	-0.01	-0.19	-0.06	0.03	0.00
	SLE Frequenti +	0.00	-0.00	-0.19	-0.06	0.03	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.19	-0.06	0.03	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.19	-0.06	0.03	0.00
	SLD -	-0.04	-0.12	-0.19	-0.07	0.03	-0.01
	SLD +	0.04	0.11	-0.18	-0.05	0.03	0.01
108	SLU Statiche -	0.00	-0.00	-0.43	-0.16	0.00	0.00
	SLU Statiche +	0.00	0.01	-0.19	-0.06	0.00	0.00
	SLV -	-0.09	-0.22	-0.28	-0.11	-0.00	-0.02
	SLV +	0.09	0.21	-0.23	-0.07	0.00	0.02
	SLE Rare -	0.00	-0.00	-0.31	-0.12	0.00	0.00
	SLE Rare +	0.00	0.00	-0.28	-0.10	0.00	0.00
	SLE Frequenti -	0.00	-0.01	-0.27	-0.10	0.00	0.00
	SLE Frequenti +	0.00	-0.00	-0.26	-0.09	0.00	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.26	-0.09	0.00	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.26	-0.09	0.00	0.00
	SLD -	-0.04	-0.10	-0.26	-0.10	-0.00	-0.01
	SLD +	0.04	0.09	-0.25	-0.08	0.00	0.01
109	SLU Statiche -	0.00	-0.00	-0.31	-0.10	-0.05	0.00
	SLU Statiche +	0.00	0.01	-0.14	-0.04	-0.02	0.00
	SLV -	-0.09	-0.28	-0.20	-0.08	-0.03	-0.02
	SLV +	0.09	0.26	-0.17	-0.04	-0.03	0.02
	SLE Rare -	0.00	-0.00	-0.22	-0.07	-0.04	0.00
	SLE Rare +	0.00	0.00	-0.20	-0.07	-0.04	0.00
	SLE Frequenti -	0.00	-0.01	-0.19	-0.06	-0.03	0.00
	SLE Frequenti +	0.00	-0.00	-0.19	-0.06	-0.03	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.19	-0.06	-0.03	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.19	-0.06	-0.03	0.00
	SLD -	-0.04	-0.12	-0.19	-0.07	-0.03	-0.01
	SLD +	0.04	0.11	-0.18	-0.05	-0.03	0.01
110	SLU Statiche -	0.00	-0.00	-0.11	-0.00	-0.03	0.00
	SLU Statiche +	0.00	0.01	-0.07	-0.00	-0.01	0.00
	SLV -	-0.09	-0.33	-0.09	-0.02	-0.02	-0.02

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLV +	0.09	0.32	-0.06	0.02	-0.01	0.02
	SLE Rare -	0.00	-0.00	-0.08	-0.00	-0.02	0.00
	SLE Rare +	0.00	0.00	-0.08	-0.00	-0.02	0.00
	SLE Frequenti -	0.00	-0.01	-0.08	-0.00	-0.02	0.00
	SLE Frequenti +	0.00	-0.00	-0.07	-0.00	-0.02	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.07	-0.00	-0.02	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.07	-0.00	-0.02	0.00
	SLD -	-0.04	-0.14	-0.08	-0.01	-0.02	-0.01
	SLD +	0.04	0.13	-0.07	0.01	-0.02	0.01
111	SLU Statiche -	0.00	-0.00	-0.12	-0.00	0.04	0.00
	SLU Statiche +	0.00	0.01	-0.07	-0.00	0.09	0.00
	SLV -	-0.13	-0.33	-0.14	-0.03	0.05	-0.02
	SLV +	0.13	0.32	-0.01	0.02	0.06	0.02
	SLE Rare -	0.00	-0.00	-0.09	-0.00	0.06	0.00
	SLE Rare +	0.00	0.00	-0.08	-0.00	0.07	0.00
	SLE Frequenti -	0.00	-0.01	-0.08	-0.00	0.05	0.00
	SLE Frequenti +	0.00	-0.00	-0.08	-0.00	0.06	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.08	-0.00	0.05	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.08	-0.00	0.05	0.00
	SLD -	-0.05	-0.14	-0.11	-0.01	0.05	-0.01
	SLD +	0.05	0.13	-0.05	0.01	0.05	0.01
112	SLU Statiche -	0.00	-0.00	-0.58	-0.11	0.04	0.00
	SLU Statiche +	0.00	0.01	-0.25	-0.04	0.11	0.00
	SLV -	-0.13	-0.28	-0.41	-0.08	0.06	-0.02
	SLV +	0.13	0.26	-0.27	-0.04	0.07	0.02
	SLE Rare -	0.00	-0.00	-0.42	-0.08	0.07	0.00
	SLE Rare +	0.00	0.00	-0.38	-0.07	0.08	0.00
	SLE Frequenti -	0.00	-0.01	-0.35	-0.06	0.06	0.00
	SLE Frequenti +	0.00	-0.00	-0.34	-0.06	0.07	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.34	-0.06	0.06	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.34	-0.06	0.06	0.00
	SLD -	-0.05	-0.12	-0.37	-0.07	0.06	-0.01
	SLD +	0.05	0.11	-0.31	-0.05	0.07	0.01
113	SLU Statiche -	0.00	-0.00	-0.84	-0.15	0.00	0.00
	SLU Statiche +	0.00	0.01	-0.35	-0.06	0.00	0.00
	SLV -	-0.13	-0.22	-0.54	-0.10	-0.00	-0.02
	SLV +	0.13	0.21	-0.42	-0.07	0.00	0.02
	SLE Rare -	0.00	-0.00	-0.60	-0.11	0.00	0.00
	SLE Rare +	0.00	0.00	-0.54	-0.10	0.00	0.00
	SLE Frequenti -	0.00	-0.01	-0.50	-0.09	0.00	0.00
	SLE Frequenti +	0.00	-0.00	-0.48	-0.08	0.00	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.48	-0.08	0.00	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.48	-0.08	0.00	0.00
	SLD -	-0.05	-0.10	-0.51	-0.09	-0.00	-0.01
	SLD +	0.05	0.09	-0.45	-0.08	0.00	0.01
114	SLU Statiche -	0.00	-0.00	-0.58	-0.11	-0.11	0.00
	SLU Statiche +	0.00	0.01	-0.25	-0.04	-0.04	0.00
	SLV -	-0.13	-0.28	-0.41	-0.08	-0.07	-0.02
	SLV +	0.13	0.26	-0.27	-0.04	-0.06	0.02
	SLE Rare -	0.00	-0.00	-0.42	-0.08	-0.08	0.00
	SLE Rare +	0.00	0.00	-0.38	-0.07	-0.07	0.00
	SLE Frequenti -	0.00	-0.01	-0.35	-0.06	-0.07	0.00
	SLE Frequenti +	0.00	-0.00	-0.34	-0.06	-0.06	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.34	-0.06	-0.06	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.34	-0.06	-0.06	0.00
	SLD -	-0.05	-0.12	-0.37	-0.07	-0.07	-0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLD +	0.05	0.11	-0.31	-0.05	-0.06	0.01
115	SLU Statiche -	0.00	-0.00	-0.12	-0.00	-0.09	0.00
	SLU Statiche +	0.00	0.01	-0.07	-0.00	-0.04	0.00
	SLV -	-0.13	-0.33	-0.14	-0.03	-0.06	-0.02
	SLV +	0.13	0.32	-0.01	0.02	-0.05	0.02
	SLE Rare -	0.00	-0.00	-0.09	-0.00	-0.07	0.00
	SLE Rare +	0.00	0.00	-0.08	-0.00	-0.06	0.00
	SLE Frequenti -	0.00	-0.01	-0.08	-0.00	-0.06	0.00
	SLE Frequenti +	0.00	-0.00	-0.08	-0.00	-0.05	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.08	-0.00	-0.05	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.08	-0.00	-0.05	0.00
	SLD -	-0.05	-0.14	-0.11	-0.01	-0.05	-0.01
	SLD +	0.05	0.13	-0.05	0.01	-0.05	0.01
116	SLU Statiche -	0.00	-0.00	-0.13	-0.02	0.05	0.00
	SLU Statiche +	0.00	0.01	-0.08	-0.01	0.12	0.00
	SLV -	-0.14	-0.33	-0.17	-0.03	0.06	-0.02
	SLV +	0.14	0.32	0.01	0.01	0.07	0.02
	SLE Rare -	0.00	-0.00	-0.09	-0.01	0.07	0.00
	SLE Rare +	0.00	0.00	-0.09	-0.01	0.08	0.00
	SLE Frequenti -	0.00	-0.01	-0.08	-0.01	0.07	0.00
	SLE Frequenti +	0.00	-0.00	-0.08	-0.01	0.07	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.08	-0.01	0.07	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.08	-0.01	0.07	0.00
	SLD -	-0.06	-0.14	-0.12	-0.02	0.06	-0.01
	SLD +	0.06	0.13	-0.05	0.00	0.07	0.01
117	SLU Statiche -	0.00	-0.00	-0.68	-0.11	0.05	0.00
	SLU Statiche +	0.00	0.01	-0.29	-0.04	0.13	0.00
	SLV -	-0.14	-0.28	-0.48	-0.08	0.07	-0.02
	SLV +	0.14	0.26	-0.30	-0.04	0.08	0.02
	SLE Rare -	0.00	-0.00	-0.49	-0.08	0.08	0.00
	SLE Rare +	0.00	0.00	-0.44	-0.07	0.09	0.00
	SLE Frequenti -	0.00	-0.01	-0.41	-0.06	0.07	0.00
	SLE Frequenti +	0.00	-0.00	-0.39	-0.06	0.07	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.39	-0.06	0.07	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.39	-0.06	0.07	0.00
	SLD -	-0.06	-0.12	-0.43	-0.07	0.07	-0.01
	SLD +	0.06	0.11	-0.35	-0.05	0.07	0.01
118	SLU Statiche -	0.00	-0.00	-0.97	-0.15	0.00	0.00
	SLU Statiche +	0.00	0.01	-0.40	-0.06	0.00	0.00
	SLV -	-0.14	-0.22	-0.63	-0.10	-0.01	-0.02
	SLV +	0.14	0.21	-0.48	-0.07	0.01	0.02
	SLE Rare -	0.00	-0.00	-0.70	-0.11	0.00	0.00
	SLE Rare +	0.00	0.00	-0.63	-0.10	0.00	0.00
	SLE Frequenti -	0.00	-0.01	-0.58	-0.09	0.00	0.00
	SLE Frequenti +	0.00	-0.00	-0.55	-0.08	0.00	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.55	-0.08	0.00	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.55	-0.08	0.00	0.00
	SLD -	-0.06	-0.10	-0.58	-0.09	-0.00	-0.01
	SLD +	0.06	0.09	-0.52	-0.08	0.00	0.01
119	SLU Statiche -	0.00	-0.00	-0.68	-0.11	-0.13	0.00
	SLU Statiche +	0.00	0.01	-0.29	-0.04	-0.05	0.00
	SLV -	-0.14	-0.28	-0.48	-0.08	-0.08	-0.02
	SLV +	0.14	0.26	-0.30	-0.04	-0.07	0.02
	SLE Rare -	0.00	-0.00	-0.49	-0.08	-0.09	0.00
	SLE Rare +	0.00	0.00	-0.44	-0.07	-0.08	0.00
	SLE Frequenti -	0.00	-0.01	-0.41	-0.06	-0.07	0.00

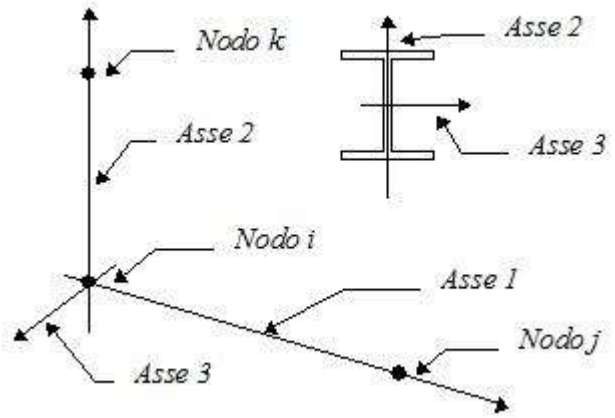
Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Frequenti +	0.00	-0.00	-0.39	-0.06	-0.07	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.39	-0.06	-0.07	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.39	-0.06	-0.07	0.00
	SLD -	-0.06	-0.12	-0.43	-0.07	-0.07	-0.01
	SLD +	0.06	0.11	-0.35	-0.05	-0.07	0.01
120	SLU Statiche -	0.00	-0.00	-0.13	-0.02	-0.12	0.00
	SLU Statiche +	0.00	0.01	-0.08	-0.01	-0.05	0.00
	SLV -	-0.14	-0.33	-0.17	-0.03	-0.07	-0.02
	SLV +	0.14	0.32	0.01	0.01	-0.06	0.02
	SLE Rare -	0.00	-0.00	-0.09	-0.01	-0.08	0.00
	SLE Rare +	0.00	0.00	-0.09	-0.01	-0.07	0.00
	SLE Frequenti -	0.00	-0.01	-0.08	-0.01	-0.07	0.00
	SLE Frequenti +	0.00	-0.00	-0.08	-0.01	-0.07	0.00
	SLE Quasi Permanenti -	0.00	-0.01	-0.08	-0.01	-0.07	0.00
	SLE Quasi Permanenti +	0.00	-0.01	-0.08	-0.01	-0.07	0.00
	SLD -	-0.06	-0.14	-0.12	-0.02	-0.07	-0.01
	SLD +	0.06	0.13	-0.05	0.00	-0.06	0.01

Sollecitazioni nelle travi

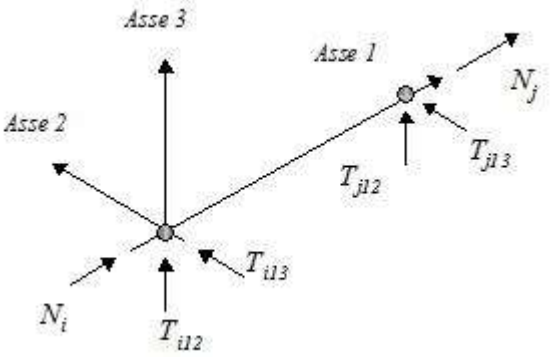
Convenzioni adottate

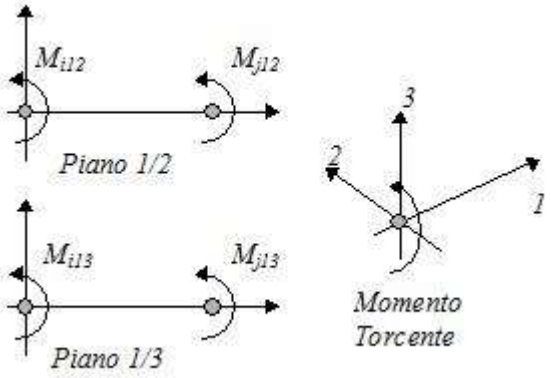
Le sollecitazioni nelle travi sono da intendersi nel sistema di riferimento locale dell'elemento, e si riferiscono all'asta. L'orientamento della trave nello spazio è definito a mezzo del nodo *K*.

La terna di riferimento locale dell'asta è così disposta:



Per quanto concerne i segni positivi assunti per le varie componenti di sollecitazione si assumono come positivi i versi e le sollecitazioni se così diretti:





Per ogni trave vengono riportate, nelle varie combinazioni di carico, le componenti di sollecitazione alle estremità dell'asta.

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLU Statiche -	2	-23.34	-0.15	0.34	575.8	-162.6	-127.2
	1	15.61	-0.05	-0.79	-976.7	-38.5	79.3
SLU Statiche +	2	-15.61	0.05	0.79	976.7	-79.9	-117.3
	1	23.34	0.15	-0.34	-575.8	-6.0	140.3
SLV -	2	-29.11	-2.01	-0.61	-486.2	-227.5	-256.3
	1	2.27	-2.16	-1.58	-1287.7	-177.4	-293.5
SLV +	2	-2.27	2.16	1.58	1287.7	26.5	87.0
	1	29.11	2.01	0.61	486.2	130.8	501.1
SLE Rare -	2	-16.45	0.04	0.53	346.2	-116.4	-85.5
	1	16.36	-0.05	-0.57	-398.6	-28.9	89.3
SLE Rare +	2	-16.36	0.05	0.57	398.6	-109.2	-80.2
	1	16.45	-0.04	-0.53	-346.2	-26.1	99.0
SLE Frequenti -	2	-16.02	0.07	0.49	379.8	-103.3	-87.7
	1	15.69	-0.08	-0.50	-425.9	-24.5	99.9
SLE Frequenti +	2	-15.69	0.08	0.50	425.9	-100.5	-82.5
	1	16.02	-0.07	-0.49	-379.8	-23.3	106.3
SLE Quasi Permanenti -	2	-15.69	0.08	0.49	400.8	-100.5	-84.6
	1	15.69	-0.08	-0.49	-400.8	-23.3	103.8
SLE Quasi Permanenti +	2	-15.69	0.08	0.49	400.8	-100.5	-84.6
	1	15.69	-0.08	-0.49	-400.8	-23.3	103.8
SLD -	2	-21.38	-0.81	0.02	24.1	-154.3	-157.6
	1	10.00	-0.96	-0.95	-777.4	-88.7	-64.6
SLD +	2	-10.00	0.96	0.95	777.4	-46.6	-11.6
	1	21.38	0.81	-0.02	-24.1	42.1	272.3

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLU Statiche -	3	-50.74	-0.42	-0.15	-89.6	73.1	-129.4
	2	30.77	0.17	-0.05	-253.7	-124.7	21.5
SLU Statiche +	3	-30.77	-0.17	0.05	253.7	162.9	-89.1
	2	50.74	0.42	0.15	89.6	-85.1	45.5
SLV -	3	-72.35	-1.83	-0.42	-826.2	-99.5	-293.6
	2	-9.79	-1.34	-0.26	-758.6	-223.8	-199.1
SLV +	3	9.79	1.34	0.26	758.6	294.1	139.1
	2	72.35	1.83	0.42	826.2	69.5	227.6
SLE Rare -	3	-35.77	-0.31	-0.12	-92.5	107.8	-90.1
	2	33.99	0.28	0.10	53.9	-87.0	12.0
SLE Rare +	3	-33.99	-0.28	-0.10	-53.9	117.2	-85.0
	2	35.77	0.31	0.12	92.5	-83.5	14.4
SLE Frequenti -	3	-31.99	-0.26	-0.09	-49.2	97.3	-79.3
	2	31.28	0.25	0.08	24.5	-78.5	13.3
SLE Frequenti +	3	-31.28	-0.25	-0.08	-24.5	101.0	-77.2
	2	31.99	0.26	0.09	49.2	-77.1	15.5
SLE Quasi Permanenti -	3	-31.28	-0.25	-0.08	-33.8	97.3	-77.2
	2	31.28	0.25	0.08	33.8	-77.1	14.2
SLE Quasi Permanenti +	3	-31.28	-0.25	-0.08	-33.8	97.3	-77.2
	2	31.28	0.25	0.08	33.8	-77.1	14.2
SLD -	3	-48.68	-0.92	-0.23	-370.7	13.8	-169.2
	2	13.88	-0.43	-0.07	-303.1	-139.3	-76.5
SLD +	3	-13.88	0.43	0.07	303.1	180.7	14.7
	2	48.68	0.92	0.23	370.7	-14.9	105.0
SLU Statiche -	4	-50.74	0.17	-0.05	-253.7	85.1	-45.5
	3	30.77	-0.42	-0.15	-89.6	-162.9	89.1
SLU Statiche +	4	-30.77	0.42	0.15	89.6	124.7	-21.5
	3	50.74	-0.17	0.05	253.7	-73.1	129.4
SLV -	4	-72.35	-1.34	-0.26	-758.6	-69.5	-227.6
	3	-9.79	-1.83	-0.42	-826.2	-294.1	-139.1
SLV +	4	9.79	1.83	0.42	826.2	223.8	199.1
	3	72.35	1.34	0.26	758.6	99.5	293.6
SLE Rare -	4	-35.77	0.28	0.10	53.9	83.5	-14.4
	3	33.99	-0.31	-0.12	-92.5	-117.2	85.0
SLE Rare +	4	-33.99	0.31	0.12	92.5	87.0	-12.0
	3	35.77	-0.28	-0.10	-53.9	-107.8	90.1
SLE Frequenti -	4	-31.99	0.25	0.08	24.5	77.1	-15.5
	3	31.28	-0.26	-0.09	-49.2	-101.0	77.2
SLE Frequenti +	4	-31.28	0.26	0.09	49.2	78.5	-13.3
	3	31.99	-0.25	-0.08	-24.5	-97.3	79.3
SLE Quasi Permanenti -	4	-31.28	0.25	0.08	33.8	77.1	-14.2
	3	31.28	-0.25	-0.08	-33.8	-97.3	77.2
SLE Quasi Permanenti +	4	-31.28	0.25	0.08	33.8	77.1	-14.2
	3	31.28	-0.25	-0.08	-33.8	-97.3	77.2
SLD -	4	-48.68	-0.43	-0.07	-303.1	14.9	-105.0
	3	13.88	-0.92	-0.23	-370.7	-180.7	-14.7
SLD +	4	-13.88	0.92	0.23	370.7	139.3	76.5
	3	48.68	0.43	0.07	303.1	-13.8	169.2
SLU Statiche -	5	-23.34	-0.05	-0.79	-976.7	6.0	-140.3
	4	15.61	-0.15	0.34	575.8	79.9	117.3
SLU Statiche +	5	-15.61	0.15	-0.34	-575.8	38.5	-79.3
	4	23.34	0.05	0.79	976.7	162.6	127.2
SLV -	5	-29.11	-2.16	-1.58	-1287.7	-130.8	-501.1

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	4	2.27	-2.01	-0.61	-486.2	-26.5	-87.0
SLV +	5	-2.27	2.01	0.61	486.2	177.4	293.5
	4	29.11	2.16	1.58	1287.7	227.5	256.3
SLE Rare -	5	-16.45	-0.05	-0.57	-398.6	26.1	-99.0
	4	16.36	0.04	0.53	346.2	109.2	80.2
SLE Rare +	5	-16.36	-0.04	-0.53	-346.2	28.9	-89.3
	4	16.45	0.05	0.57	398.6	116.4	85.5
SLE Frequenti -	5	-16.02	-0.08	-0.50	-425.9	23.3	-106.3
	4	15.69	0.07	0.49	379.8	100.5	82.5
SLE Frequenti +	5	-15.69	-0.07	-0.49	-379.8	24.5	-99.9
	4	16.02	0.08	0.50	425.9	103.3	87.7
SLE Quasi Permanenti -	5	-15.69	-0.08	-0.49	-400.8	23.3	-103.8
	4	15.69	0.08	0.49	400.8	100.5	84.6
SLE Quasi Permanenti +	5	-15.69	-0.08	-0.49	-400.8	23.3	-103.8
	4	15.69	0.08	0.49	400.8	100.5	84.6
SLD -	5	-21.38	-0.96	-0.95	-777.4	-42.1	-272.3
	4	10.00	-0.81	0.02	24.1	46.6	11.6
SLD +	5	-10.00	0.81	-0.02	-24.1	88.7	64.6
	4	21.38	0.96	0.95	777.4	154.3	157.6
SLU Statiche -	11	9.22	-3.43	-1.22	-1242.8	-31.1	-235.4
	12	-11.94	0.30	0.58	819.4	179.8	-640.2
SLU Statiche +	11	11.94	-0.30	-0.58	-819.4	-3.8	-45.5
	12	-9.22	3.43	1.22	1242.8	315.5	-29.9
SLV -	11	-7.16	-10.06	-2.90	-1673.3	-223.3	-1211.6
	12	-22.84	-5.85	-1.37	-88.6	-127.8	-1418.0
SLV +	11	22.84	5.85	1.37	88.6	210.1	900.3
	12	7.16	10.06	2.90	1673.3	529.5	655.3
SLE Rare -	11	8.22	-2.59	-0.88	-870.2	-4.3	-175.7
	12	-8.26	2.32	0.83	844.3	214.8	-485.3
SLE Rare +	11	8.26	-2.32	-0.83	-844.3	0.1	-165.1
	12	-8.22	2.59	0.88	870.2	223.7	-427.2
SLE Frequenti -	11	7.84	-2.21	-0.78	-805.4	-7.6	-159.9
	12	-8.02	2.08	0.76	792.3	200.9	-404.6
SLE Frequenti +	11	8.02	-2.08	-0.76	-792.3	-4.9	-155.0
	12	-7.84	2.21	0.78	805.4	204.4	-375.2
SLE Quasi Permanenti -	11	7.84	-2.11	-0.76	-792.3	-6.6	-155.6
	12	-7.84	2.11	0.76	792.3	200.9	-381.4
SLE Quasi Permanenti +	11	7.84	-2.11	-0.76	-792.3	-6.6	-155.6
	12	-7.84	2.11	0.76	792.3	200.9	-381.4
SLD -	11	1.48	-5.48	-1.67	-1166.4	-98.6	-608.4
	12	-14.20	-1.27	-0.14	418.2	61.5	-821.1
SLD +	11	14.20	1.27	0.14	-418.2	85.4	297.1
	12	-1.48	5.48	1.67	1166.4	340.3	58.3
SLU Statiche -	12	12.28	0.63	-0.43	-283.8	-48.0	-170.4
	13	-19.26	-0.83	0.15	176.7	78.7	-119.0
SLU Statiche +	12	19.26	0.83	-0.15	-176.7	-41.2	331.7
	13	-12.28	-0.63	0.43	283.8	158.0	330.7
SLV -	12	-22.15	-2.39	-1.01	-822.6	-151.6	-576.3
	13	-45.79	-3.41	-0.50	-463.8	-136.3	-1090.4
SLV +	12	45.79	3.41	0.50	463.8	89.8	961.6
	13	22.15	2.39	1.01	822.6	325.7	964.4
SLE Rare -	12	12.86	0.55	-0.31	-199.6	-32.9	222.1
	13	-13.52	-0.58	0.28	192.1	104.6	-122.8
SLE Rare +	12	13.52	0.58	-0.28	-192.1	-32.7	269.4

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	13	-12.86	-0.55	0.31	199.6	112.9	-81.3
SLE Frequenti -	12	11.82	0.51	-0.26	-182.4	-31.8	183.7
	13	-12.08	-0.52	0.25	179.4	94.7	-79.6
SLE Frequenti +	12	12.08	0.52	-0.25	-179.4	-30.9	211.6
	13	-11.82	-0.51	0.26	182.4	98.0	-51.4
SLE Quasi Permanenti -	12	11.82	0.51	-0.25	-179.4	-30.9	192.7
	13	-11.82	-0.51	0.25	179.4	94.7	-63.0
SLE Quasi Permanenti +	12	11.82	0.51	-0.25	-179.4	-30.9	192.7
	13	-11.82	-0.51	0.25	179.4	94.7	-63.0
SLD -	12	-2.57	-0.74	-0.57	-455.3	-82.1	-133.3
	13	-26.21	-1.75	-0.07	-96.5	-3.3	-499.1
SLD +	12	26.21	1.75	0.07	96.5	20.3	518.7
	13	2.57	0.74	0.57	455.3	192.7	373.1
SLU Statiche -	13	12.28	-0.83	0.15	176.7	-158.0	-330.7
	14	-19.26	0.63	-0.43	-283.8	41.2	-331.7
SLU Statiche +	13	19.26	-0.63	0.43	283.8	-78.7	119.0
	14	-12.28	0.83	-0.15	-176.7	48.0	170.4
SLV -	13	-22.15	-3.41	-0.50	-463.8	-325.7	-964.4
	14	-45.79	-2.39	-1.01	-822.6	-89.8	-961.6
SLV +	13	45.79	2.39	1.01	822.6	136.3	1090.4
	14	22.15	3.41	0.50	463.8	151.6	576.3
SLE Rare -	13	12.86	-0.58	0.28	192.1	-112.9	81.3
	14	-13.52	0.55	-0.31	-199.6	32.7	-269.4
SLE Rare +	13	13.52	-0.55	0.31	199.6	-104.6	122.8
	14	-12.86	0.58	-0.28	-192.1	32.9	-222.1
SLE Frequenti -	13	11.82	-0.52	0.25	179.4	-98.0	51.4
	14	-12.08	0.51	-0.26	-182.4	30.9	-211.6
SLE Frequenti +	13	12.08	-0.51	0.26	182.4	-94.7	79.6
	14	-11.82	0.52	-0.25	-179.4	31.8	-183.7
SLE Quasi Permanenti -	13	11.82	-0.51	0.25	179.4	-94.7	63.0
	14	-11.82	0.51	-0.25	-179.4	30.9	-192.7
SLE Quasi Permanenti +	13	11.82	-0.51	0.25	179.4	-94.7	63.0
	14	-11.82	0.51	-0.25	-179.4	30.9	-192.7
SLD -	13	-2.57	-1.75	-0.07	-96.5	-192.7	-373.1
	14	-26.21	-0.74	-0.57	-455.3	-20.3	-518.7
SLD +	13	26.21	0.74	0.57	455.3	3.3	499.1
	14	2.57	1.75	0.07	96.5	82.1	133.3
SLU Statiche -	14	9.22	0.30	0.58	819.4	-315.5	29.9
	15	-11.94	-3.43	-1.22	-1242.8	3.8	45.5
SLU Statiche +	14	11.94	3.43	1.22	1242.8	-179.8	640.2
	15	-9.22	-0.30	-0.58	-819.4	31.1	235.4
SLV -	14	-7.16	-5.85	-1.37	-88.6	-529.5	-655.3
	15	-22.84	-10.06	-2.90	-1673.3	-210.1	-900.3
SLV +	14	22.84	10.06	2.90	1673.3	127.8	1418.0
	15	7.16	5.85	1.37	88.6	223.3	1211.6
SLE Rare -	14	8.22	2.32	0.83	844.3	-223.7	427.2
	15	-8.26	-2.59	-0.88	-870.2	-0.1	165.1
SLE Rare +	14	8.26	2.59	0.88	870.2	-214.8	485.3
	15	-8.22	-2.32	-0.83	-844.3	4.3	175.7
SLE Frequenti -	14	7.84	2.08	0.76	792.3	-204.4	375.2
	15	-8.02	-2.21	-0.78	-805.4	4.9	155.0
SLE Frequenti +	14	8.02	2.21	0.78	805.4	-200.9	404.6
	15	-7.84	-2.08	-0.76	-792.3	7.6	159.9
SLE Quasi Permanenti -	14	7.84	2.11	0.76	792.3	-200.9	381.4

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	15	-7.84	-2.11	-0.76	-792.3	6.6	155.6
SLE Quasi Permanenti +	14	7.84	2.11	0.76	792.3	-200.9	381.4
	15	-7.84	-2.11	-0.76	-792.3	6.6	155.6
SLD -	14	1.48	-1.27	-0.14	418.2	-340.3	-58.3
	15	-14.20	-5.48	-1.67	-1166.4	-85.4	-297.1
SLD +	14	14.20	5.48	1.67	1166.4	-61.5	821.1
	15	-1.48	1.27	0.14	-418.2	98.6	608.4
SLU Statiche -	1	-46.83	12.50	-2.25	-526.3	145.0	275.2
	6	33.24	-7.18	0.97	-216.7	-1.7	725.6
SLU Statiche +	1	-33.24	18.62	-0.97	216.7	223.6	684.1
	6	46.83	-1.07	2.25	526.3	108.7	1218.3
SLV -	1	-45.35	10.88	-4.14	-963.2	-80.4	112.5
	6	17.40	-5.64	-1.27	-1183.5	-120.9	597.8
SLV +	1	-17.40	13.26	1.27	1183.5	383.2	712.9
	6	45.35	-3.25	4.14	963.2	241.9	1012.6
SLE Rare -	1	-32.63	12.63	-1.63	144.3	157.0	451.5
	6	32.59	-5.39	1.54	-215.6	70.6	848.3
SLE Rare +	1	-32.59	13.01	-1.54	215.6	157.4	494.9
	6	32.63	-5.00	1.63	-144.3	83.0	862.0
SLE Frequenti -	1	-32.01	12.07	-1.47	91.6	151.4	410.4
	6	31.37	-4.60	1.44	-138.7	59.3	805.2
SLE Frequenti +	1	-31.37	12.22	-1.44	138.7	154.1	430.1
	6	32.01	-4.44	1.47	-91.6	65.5	819.9
SLE Quasi Permanenti -	1	-31.38	12.07	-1.44	110.1	151.4	412.7
	6	31.38	-4.44	1.44	-110.1	60.5	805.2
SLE Quasi Permanenti +	1	-31.38	12.07	-1.44	110.1	151.4	412.7
	6	31.38	-4.44	1.44	-110.1	60.5	805.2
SLD -	1	-37.30	11.56	-2.58	-345.1	53.1	285.1
	6	25.45	-4.95	0.29	-565.4	-16.4	717.3
SLD +	1	-25.45	12.58	-0.29	565.4	249.7	540.2
	6	37.30	-3.94	2.58	345.1	137.4	893.2
SLU Statiche -	6	-69.45	-6.49	1.02	372.7	64.7	-2118.0
	11	38.40	13.66	-1.88	-819.7	-393.9	6.8
SLU Statiche +	6	-38.40	-2.23	1.88	819.7	116.6	-1178.6
	11	69.45	17.92	-1.02	-372.7	-214.8	317.7
SLV -	6	-63.35	-10.91	-2.06	-275.9	-86.3	-2102.8
	11	24.54	5.01	-4.60	-1316.7	-595.1	-186.1
SLV +	6	-24.54	2.61	4.60	1316.7	216.4	-581.3
	11	63.35	18.54	2.06	275.9	91.6	521.6
SLE Rare -	6	-49.33	-4.75	1.32	559.1	74.0	-1504.0
	11	47.12	12.21	-1.35	-590.5	-280.3	202.8
SLE Rare +	6	-47.12	-4.58	1.35	590.5	82.3	-1441.2
	11	49.33	12.38	-1.32	-559.1	-268.9	240.9
SLE Frequenti -	6	-44.83	-4.28	1.27	520.4	65.0	-1367.2
	11	43.94	11.77	-1.28	-532.9	-256.3	166.2
SLE Frequenti +	6	-43.94	-4.15	1.28	532.9	68.3	-1342.0
	11	44.83	11.91	-1.27	-520.4	-251.8	183.0
SLE Quasi Permanenti -	6	-43.94	-4.15	1.27	520.4	65.0	-1342.0
	11	43.94	11.77	-1.27	-520.4	-251.8	167.8
SLE Quasi Permanenti +	6	-43.94	-4.15	1.27	520.4	65.0	-1342.0
	11	43.94	11.77	-1.27	-520.4	-251.8	167.8
SLD -	6	-52.17	-7.01	-0.15	182.7	0.8	-1664.6
	11	35.72	8.91	-2.68	-858.1	-397.3	17.4
SLD +	6	-35.72	-1.28	2.68	858.1	129.2	-1019.4

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	11	52.17	14.64	0.15	-182.7	-106.2	318.1
SLU Statiche -	2	5.50	11.48	1.19	-508.7	-260.0	-1575.3
	7	-8.46	-12.09	-2.76	27.2	-147.4	2778.6
SLU Statiche +	2	8.46	12.09	2.76	-27.2	-114.6	-1084.9
	7	-5.50	-11.48	-1.19	508.7	-60.8	3354.0
SLV -	2	4.10	5.73	-1.96	-1294.2	-493.4	-2485.9
	7	-6.74	-9.72	-5.35	-1217.4	-295.3	1052.9
SLV +	2	6.74	9.72	5.35	1217.4	177.4	376.5
	7	-4.10	-5.73	1.96	1294.2	112.4	3335.8
SLE Rare -	2	5.76	8.03	1.85	-20.9	-187.4	-1100.4
	7	-5.93	-8.11	-1.99	-28.2	-106.7	2284.5
SLE Rare +	2	5.93	8.11	1.99	28.2	-173.5	-1097.7
	7	-5.76	-8.03	-1.85	20.9	-99.4	2294.3
SLE Frequenti -	2	5.42	7.69	1.69	-54.2	-163.5	-1074.9
	7	-5.51	-7.96	-1.75	18.8	-94.3	2190.4
SLE Frequenti +	2	5.51	7.96	1.75	-18.8	-158.0	-1054.7
	7	-5.42	-7.69	-1.69	54.2	-91.4	2249.2
SLE Quasi Permanenti -	2	5.42	7.73	1.69	-38.4	-158.0	-1054.7
	7	-5.42	-7.73	-1.69	38.4	-91.4	2194.3
SLE Quasi Permanenti +	2	5.42	7.73	1.69	-38.4	-158.0	-1054.7
	7	-5.42	-7.73	-1.69	38.4	-91.4	2194.3
SLD -	2	4.86	6.88	0.14	-571.7	-300.2	-1661.2
	7	-5.98	-8.57	-3.24	-495.0	-177.9	1710.6
SLD +	2	5.98	8.57	3.24	495.0	-15.7	-448.2
	7	-4.86	-6.88	-0.14	571.7	-4.9	2678.0
SLU Statiche -	7	4.44	-11.97	0.03	205.2	-74.2	-3485.5
	12	-6.40	9.98	-0.81	-525.5	-45.8	1672.0
SLU Statiche +	7	6.40	-9.98	0.81	525.5	-8.4	-3144.3
	12	-4.44	11.97	-0.03	-205.2	3.9	1720.5
SLV -	7	-0.38	-10.18	-3.13	-512.0	-279.0	-2919.0
	12	-8.68	5.42	-3.89	-1163.9	-295.4	65.7
SLV +	7	8.68	-5.42	3.89	1163.9	205.1	-1564.9
	12	0.38	10.18	3.13	512.0	257.1	2117.9
SLE Rare -	7	4.38	-8.19	0.49	354.5	-55.5	-2357.9
	12	-4.46	8.18	-0.61	-381.2	-35.1	1143.0
SLE Rare +	7	4.46	-8.18	0.61	381.2	-45.4	-2349.0
	12	-4.38	8.19	-0.49	-354.5	-26.2	1151.1
SLE Frequenti -	7	4.15	-7.99	0.37	325.9	-41.0	-2304.4
	12	-4.22	7.80	-0.43	-336.6	-22.7	1088.6
SLE Frequenti +	7	4.22	-7.80	0.43	336.6	-36.1	-2238.4
	12	-4.15	7.99	-0.37	-325.9	-18.2	1125.5
SLE Quasi Permanenti -	7	4.15	-7.80	0.38	325.9	-36.9	-2242.0
	12	-4.15	7.80	-0.38	-325.9	-19.1	1091.8
SLE Quasi Permanenti +	7	4.15	-7.80	0.38	325.9	-36.9	-2242.0
	12	-4.15	7.80	-0.38	-325.9	-19.1	1091.8
SLD -	7	2.23	-8.81	-1.11	-29.8	-139.6	-2528.9
	12	-6.07	6.79	-1.87	-681.6	-136.3	657.0
SLD +	7	6.07	-6.79	1.87	681.6	65.8	-1955.0
	12	-2.23	8.81	1.11	29.8	98.0	1526.7
SLU Statiche -	3	-0.06	14.00	0.00	-0.0	-0.0	-1314.5
	8	-3.07	-15.75	-0.00	0.0	-0.0	3194.6
SLU Statiche +	3	3.07	15.75	0.00	-0.0	-0.0	-1129.1
	8	0.06	-14.00	-0.00	0.0	-0.0	3626.3

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLV -	3	-0.04	6.66	-1.40	-474.4	-125.1	-2242.1
	8	-0.89	-13.40	-1.40	-474.4	-82.0	1507.1
SLV +	3	0.89	13.40	1.40	474.4	125.1	468.9
	8	0.04	-6.66	1.40	474.4	82.0	3225.1
SLE Rare -	3	-0.33	10.62	0.00	-0.0	-0.0	-891.2
	8	-0.16	-10.67	-0.00	0.0	-0.0	2417.9
SLE Rare +	3	0.16	10.67	0.00	-0.0	-0.0	-843.7
	8	0.33	-10.62	-0.00	0.0	-0.0	2458.1
SLE Frequenti -	3	0.23	10.03	0.00	-0.0	-0.0	-912.6
	8	-0.54	-10.30	-0.00	0.0	-0.0	2350.0
SLE Frequenti +	3	0.54	10.30	0.00	-0.0	-0.0	-867.6
	8	-0.23	-10.03	-0.00	0.0	-0.0	2432.2
SLE Quasi Permanenti -	3	0.43	10.03	0.00	-0.0	-0.0	-886.6
	8	-0.43	-10.03	-0.00	0.0	-0.0	2366.1
SLE Quasi Permanenti +	3	0.43	10.03	0.00	-0.0	-0.0	-886.6
	8	-0.43	-10.03	-0.00	0.0	-0.0	2366.1
SLD -	3	0.23	8.60	-0.60	-203.7	-53.4	-1460.9
	8	-0.62	-11.46	-0.60	-203.7	-34.9	2002.2
SLD +	3	0.62	11.46	0.60	203.7	53.4	-312.3
	8	-0.23	-8.60	0.60	203.7	34.9	2730.0
SLU Statiche -	8	0.66	-14.19	0.00	0.0	-0.0	-4076.5
	13	-1.89	11.96	-0.00	-0.0	-0.0	1947.1
SLU Statiche +	8	1.89	-11.96	0.00	0.0	-0.0	-3836.6
	13	-0.66	14.19	-0.00	-0.0	-0.0	2072.7
SLV -	8	0.28	-11.69	-1.08	-413.1	-60.6	-3405.9
	13	-1.11	6.76	-1.08	-413.1	-98.9	85.6
SLV +	8	1.11	-6.76	1.08	413.1	60.6	-1810.6
	13	-0.28	11.69	1.08	413.1	98.9	2409.2
SLE Rare -	8	0.33	-9.69	0.00	0.0	-0.0	-2739.8
	13	-0.57	9.68	-0.00	-0.0	-0.0	1286.7
SLE Rare +	8	0.57	-9.68	0.00	0.0	-0.0	-2715.1
	13	-0.33	9.69	-0.00	-0.0	-0.0	1310.6
SLE Frequenti -	8	0.60	-9.46	0.00	0.0	-0.0	-2686.4
	13	-0.75	9.22	-0.00	-0.0	-0.0	1237.8
SLE Frequenti +	8	0.75	-9.22	0.00	0.0	-0.0	-2598.3
	13	-0.60	9.46	-0.00	-0.0	-0.0	1291.0
SLE Quasi Permanenti -	8	0.69	-9.23	0.00	0.0	-0.0	-2608.2
	13	-0.69	9.23	-0.00	-0.0	-0.0	1247.4
SLE Quasi Permanenti +	8	0.69	-9.23	0.00	0.0	-0.0	-2608.2
	13	-0.69	9.23	-0.00	-0.0	-0.0	1247.4
SLD -	8	0.52	-10.27	-0.46	-177.4	-25.9	-2946.2
	13	-0.87	8.18	-0.46	-177.4	-42.2	755.2
SLD +	8	0.87	-8.18	0.46	177.4	25.9	-2270.3
	13	-0.52	10.27	0.46	177.4	42.2	1739.6
SLU Statiche -	4	5.50	11.48	-2.76	27.2	114.6	-1575.3
	9	-8.46	-12.09	1.19	-508.7	60.8	2778.6
SLU Statiche +	4	8.46	12.09	-1.19	508.7	260.0	-1084.9
	9	-5.50	-11.48	2.76	-27.2	147.4	3354.0
SLV -	4	4.10	5.73	-5.35	-1217.4	-177.4	-2485.9
	9	-6.74	-9.72	-1.96	-1294.2	-112.4	1052.9
SLV +	4	6.74	9.72	1.96	1294.2	493.4	376.5
	9	-4.10	-5.73	5.35	1217.4	295.3	3335.8
SLE Rare -	4	5.76	8.03	-1.99	-28.2	173.5	-1100.4
	9	-5.93	-8.11	1.85	-20.9	99.4	2284.5

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLE Rare +	4	5.93	8.11	-1.85	20.9	187.4	-1097.7
	9	-5.76	-8.03	1.99	28.2	106.7	2294.3
SLE Frequenti -	4	5.42	7.69	-1.75	18.8	158.0	-1074.9
	9	-5.51	-7.96	1.69	-54.2	91.4	2190.4
SLE Frequenti +	4	5.51	7.96	-1.69	54.2	163.5	-1054.7
	9	-5.42	-7.69	1.75	-18.8	94.3	2249.2
SLE Quasi Permanenti -	4	5.42	7.73	-1.69	38.4	158.0	-1054.7
	9	-5.42	-7.73	1.69	-38.4	91.4	2194.3
SLE Quasi Permanenti +	4	5.42	7.73	-1.69	38.4	158.0	-1054.7
	9	-5.42	-7.73	1.69	-38.4	91.4	2194.3
SLD -	4	4.86	6.88	-3.24	-495.0	15.7	-1661.2
	9	-5.98	-8.57	0.14	-571.7	4.9	1710.6
SLD +	4	5.98	8.57	-0.14	571.7	300.2	-448.2
	9	-4.86	-6.88	3.24	495.0	177.9	2678.0
SLU Statiche -	9	4.44	-11.97	-0.81	-525.5	8.4	-3485.5
	14	-6.40	9.98	0.03	205.2	-3.9	1672.0
SLU Statiche +	9	6.40	-9.98	-0.03	-205.2	74.2	-3144.3
	14	-4.44	11.97	0.81	525.5	45.8	1720.5
SLV -	9	-0.38	-10.18	-3.89	-1163.9	-205.1	-2919.0
	14	-8.68	5.42	-3.13	-512.0	-257.1	65.7
SLV +	9	8.68	-5.42	3.13	512.0	279.0	-1564.9
	14	0.38	10.18	3.89	1163.9	295.4	2117.9
SLE Rare -	9	4.38	-8.19	-0.61	-381.2	45.4	-2357.9
	14	-4.46	8.18	0.49	354.5	26.2	1143.0
SLE Rare +	9	4.46	-8.18	-0.49	-354.5	55.5	-2349.0
	14	-4.38	8.19	0.61	381.2	35.1	1151.1
SLE Frequenti -	9	4.15	-7.99	-0.43	-336.6	36.1	-2304.4
	14	-4.22	7.80	0.37	325.9	18.2	1088.6
SLE Frequenti +	9	4.22	-7.80	-0.37	-325.9	41.0	-2238.4
	14	-4.15	7.99	0.43	336.6	22.7	1125.5
SLE Quasi Permanenti -	9	4.15	-7.80	-0.38	-325.9	36.9	-2242.0
	14	-4.15	7.80	0.38	325.9	19.1	1091.8
SLE Quasi Permanenti +	9	4.15	-7.80	-0.38	-325.9	36.9	-2242.0
	14	-4.15	7.80	0.38	325.9	19.1	1091.8
SLD -	9	2.23	-8.81	-1.87	-681.6	-65.8	-2528.9
	14	-6.07	6.79	-1.11	-29.8	-98.0	657.0
SLD +	9	6.07	-6.79	1.11	29.8	139.6	-1955.0
	14	-2.23	8.81	1.87	681.6	136.3	1526.7
SLU Statiche -	10	-46.83	-7.18	0.97	-216.7	-108.7	-1218.3
	5	33.24	12.50	-2.25	-526.3	-223.6	-684.1
SLU Statiche +	10	-33.24	-1.07	2.25	526.3	1.7	-725.6
	5	46.83	18.62	-0.97	216.7	-145.0	-275.2
SLV -	10	-45.35	-5.64	-1.27	-1183.5	-241.9	-1012.6
	5	17.40	10.88	-4.14	-963.2	-383.2	-712.9
SLV +	10	-17.40	-3.25	4.14	963.2	120.9	-597.8
	5	45.35	13.26	1.27	1183.5	80.4	-112.5
SLE Rare -	10	-32.63	-5.39	1.54	-215.6	-83.0	-862.0
	5	32.59	12.63	-1.63	144.3	-157.4	-494.9
SLE Rare +	10	-32.59	-5.00	1.63	-144.3	-70.6	-848.3
	5	32.63	13.01	-1.54	215.6	-157.0	-451.5
SLE Frequenti -	10	-32.01	-4.60	1.44	-138.7	-65.5	-819.9
	5	31.37	12.07	-1.47	91.6	-154.1	-430.1
SLE Frequenti +	10	-31.37	-4.44	1.47	-91.6	-59.3	-805.2
	5	32.01	12.22	-1.44	138.7	-151.4	-410.4

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLE Quasi Permanenti -	10	-31.38	-4.44	1.44	-110.1	-60.5	-805.2
	5	31.38	12.07	-1.44	110.1	-151.4	-412.7
SLE Quasi Permanenti +	10	-31.38	-4.44	1.44	-110.1	-60.5	-805.2
	5	31.38	12.07	-1.44	110.1	-151.4	-412.7
SLD -	10	-37.30	-4.95	0.29	-565.4	-137.4	-893.2
	5	25.45	11.56	-2.58	-345.1	-249.7	-540.2
SLD +	10	-25.45	-3.94	2.58	345.1	16.4	-717.3
	5	37.30	12.58	-0.29	565.4	-53.1	-285.1
SLU Statiche -	15	-69.45	13.66	-1.88	-819.7	214.8	-317.7
	10	38.40	-6.49	1.02	372.7	-116.6	1178.6
SLU Statiche +	15	-38.40	17.92	-1.02	-372.7	393.9	-6.8
	10	69.45	-2.23	1.88	819.7	-64.7	2118.0
SLV -	15	-63.35	5.01	-4.60	-1316.7	-91.6	-521.6
	10	24.54	-10.91	-2.06	-275.9	-216.4	581.3
SLV +	15	-24.54	18.54	2.06	275.9	595.1	186.1
	10	63.35	2.61	4.60	1316.7	86.3	2102.8
SLE Rare -	15	-49.33	12.21	-1.35	-590.5	268.9	-240.9
	10	47.12	-4.75	1.32	559.1	-82.3	1441.2
SLE Rare +	15	-47.12	12.38	-1.32	-559.1	280.3	-202.8
	10	49.33	-4.58	1.35	590.5	-74.0	1504.0
SLE Frequenti -	15	-44.83	11.77	-1.28	-532.9	251.8	-183.0
	10	43.94	-4.28	1.27	520.4	-68.3	1342.0
SLE Frequenti +	15	-43.94	11.91	-1.27	-520.4	256.3	-166.2
	10	44.83	-4.15	1.28	532.9	-65.0	1367.2
SLE Quasi Permanenti -	15	-43.94	11.77	-1.27	-520.4	251.8	-167.8
	10	43.94	-4.15	1.27	520.4	-65.0	1342.0
SLE Quasi Permanenti +	15	-43.94	11.77	-1.27	-520.4	251.8	-167.8
	10	43.94	-4.15	1.27	520.4	-65.0	1342.0
SLD -	15	-52.17	8.91	-2.68	-858.1	106.2	-318.1
	10	35.72	-7.01	-0.15	182.7	-129.2	1019.4
SLD +	15	-35.72	14.64	0.15	-182.7	397.3	-17.4
	10	52.17	-1.28	2.68	858.1	-0.8	1664.6

Pali o gruppi di pali di fondazione

Convenzioni adottate

I *pali* o *gruppo di pali* di fondazione vengono schematizzati nel codice di calcolo assimilandoli ad un elemento boundary, agente nel nodo definito dall'operatore, ed in grado di reagire lungo le sei componenti di spostamento possibili per il nodo.

La matrice di rigidezza dell'elemento *palo* o *gruppo di pali* risulta pertanto essere cosi composta:

	U_x	U_y	U_z	R_x	R_y	R_z
U_x	K_{UxUx}	K_{UxUy}	K_{UxUz}	K_{UxRx}	K_{UxRy}	K_{UxRz}
U_y		K_{UyUy}	K_{UyUz}	K_{UyRx}	K_{UyRy}	K_{UyRz}
U_z			K_{UzUz}	K_{UzRx}	K_{UzRy}	K_{UzRz}
R_x				K_{RxRx}	K_{RxRy}	K_{RxRz}
R_y		simm.			K_{RyRy}	K_{RyRz}
R_z						K_{RzRz}

Tale matrice può essere definita direttamente dall'operatore ovvero calcolata con l'ausilio del programma **Pali**.

In ogni caso il codice di calcolo si limita ad assemblare tale matrice, assumendo che la stessa sia già definita nel sistema di riferimento gloabale, ed a ottenere le sei componenti di sollecitazioni ad essa associate.

Tale matrice è riferita ad una terna di riferimento **destrorsa**.

Nodo	Comb.	Tx [kN]	Ty [kN]	N [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
1	SLU Statiche -	-2.10	-5.32	-323.09	-1258.1	432.9	-9.2
	SLU Statiche +	-1.59	-1.78	-197.75	-557.0	561.9	-4.8
	SLV -	-15.42	-28.70	-352.88	-3287.9	-2152.8	-251.6
	SLV +	12.60	22.03	-82.20	1858.9	2908.2	240.6
	SLE Rare -	-1.45	-3.89	-228.21	-903.7	376.5	-6.6
	SLE Rare +	-1.42	-3.62	-226.47	-808.9	387.2	-6.1
	SLE Frequenti -	-1.45	-3.45	-221.14	-752.5	373.4	-5.7
	SLE Frequenti +	-1.40	-3.34	-217.54	-714.3	387.8	-5.5
	SLE Quasi Permanenti -	-1.41	-3.34	-217.54	-714.5	377.7	-5.5
	SLE Quasi Permanenti +	-1.41	-3.34	-217.54	-714.5	377.7	-5.5
	SLD -	-7.37	-14.09	-275.02	-1805.5	-698.1	-110.8
	SLD +	4.55	7.42	-160.07	376.4	1453.5	99.9
2	SLU Statiche -	-0.97	-10.37	-335.38	-2833.4	194.2	-16.2
	SLU Statiche +	-0.74	-9.54	-208.58	-2659.4	242.6	-8.9
	SLV -	-15.25	-29.83	-330.26	-4517.4	-2570.3	-259.0
	SLV +	14.07	16.45	-121.27	1154.9	2866.1	239.3
	SLE Rare -	-0.66	-6.99	-236.57	-1776.2	160.6	-11.5
	SLE Rare +	-0.64	-6.88	-235.01	-1755.9	166.3	-10.8
	SLE Frequenti -	-0.60	-6.89	-229.61	-1738.9	147.9	-10.1
	SLE Frequenti +	-0.59	-6.65	-225.76	-1673.1	151.4	-9.8
	SLE Quasi Permanenti -	-0.59	-6.69	-225.76	-1681.3	147.9	-9.8
	SLE Quasi Permanenti +	-0.59	-6.69	-225.76	-1681.3	147.9	-9.8
	SLD -	-6.82	-16.50	-270.10	-2883.2	-1007.6	-116.5
	SLD +	5.64	3.11	-181.43	-479.4	1303.3	96.8
3	SLU Statiche -	0.00	-11.68	-339.68	-3448.4	0.0	0.0
	SLU Statiche +	0.00	-9.90	-211.98	-2527.7	0.0	0.0
	SLV -	-14.46	-27.27	-301.48	-4558.3	-2663.0	-243.0
	SLV +	14.46	13.94	-155.22	1262.4	2663.0	243.0
	SLE Rare -	0.00	-6.83	-239.52	-1701.5	0.0	0.0
	SLE Rare +	0.00	-6.44	-237.84	-1596.8	0.0	0.0
	SLE Frequenti -	0.00	-6.94	-232.25	-1727.0	0.0	0.0
	SLE Frequenti +	0.00	-6.51	-228.35	-1606.0	0.0	0.0
	SLE Quasi Permanenti -	0.00	-6.67	-228.35	-1647.9	0.0	0.0
	SLE Quasi Permanenti +	0.00	-6.67	-228.35	-1647.9	0.0	0.0
	SLD -	-6.15	-15.39	-259.34	-2881.0	-1132.1	-104.1
	SLD +	6.15	2.06	-197.37	-414.8	1132.1	104.1
4	SLU Statiche -	0.74	-10.37	-335.38	-2833.4	-242.6	8.9
	SLU Statiche +	0.97	-9.54	-208.58	-2659.4	-194.2	16.2
	SLV -	-14.07	-29.83	-330.26	-4517.4	-2866.1	-239.3
	SLV +	15.25	16.45	-121.27	1154.9	2570.3	259.0
	SLE Rare -	0.64	-6.99	-236.57	-1776.2	-166.3	10.8
	SLE Rare +	0.66	-6.88	-235.01	-1755.9	-160.6	11.5
	SLE Frequenti -	0.59	-6.89	-229.61	-1738.9	-151.4	9.8
	SLE Frequenti +	0.60	-6.65	-225.76	-1673.1	-147.9	10.1
	SLE Quasi Permanenti -	0.59	-6.69	-225.76	-1681.3	-147.9	9.8
	SLE Quasi Permanenti +	0.59	-6.69	-225.76	-1681.3	-147.9	9.8
	SLD -	-5.64	-16.50	-270.10	-2883.2	-1303.3	-96.8
	SLD +	6.82	3.11	-181.43	-479.4	1007.6	116.5
5	SLU Statiche -	1.59	-5.32	-323.09	-1258.1	-561.9	4.8
	SLU Statiche +	2.10	-1.78	-197.75	-557.0	-432.9	9.2

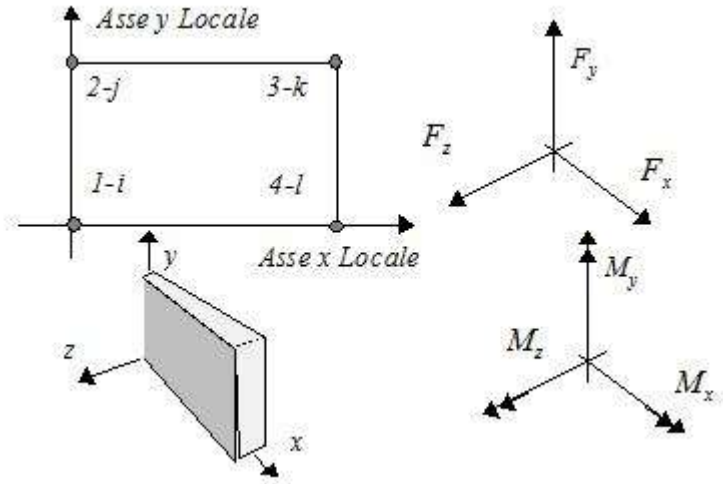
Nodo	Comb.	Tx [kN]	Ty [kN]	N [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
	SLV -	-12.60	-28.70	-352.88	-3287.9	-2908.2	-240.6
	SLV +	15.42	22.03	-82.20	1858.9	2152.8	251.6
	SLE Rare -	1.42	-3.89	-228.21	-903.7	-387.2	6.1
	SLE Rare +	1.45	-3.62	-226.47	-808.9	-376.5	6.6
	SLE Frequenti -	1.40	-3.45	-221.14	-752.5	-387.8	5.5
	SLE Frequenti +	1.45	-3.34	-217.54	-714.3	-373.4	5.7
	SLE Quasi Permanenti -	1.41	-3.34	-217.54	-714.5	-377.7	5.5
	SLE Quasi Permanenti +	1.41	-3.34	-217.54	-714.5	-377.7	5.5
	SLD -	-4.55	-14.09	-275.02	-1805.5	-1453.5	-99.9
	SLD +	7.37	7.42	-160.07	376.4	698.1	110.8
11	SLU Statiche -	-1.73	2.74	-317.35	895.1	-982.1	-29.6
	SLU Statiche +	3.40	3.24	-198.70	1148.1	531.2	-18.6
	SLV -	-16.41	-25.61	-368.74	-2385.0	-4483.2	-267.0
	SLV +	20.27	29.34	-36.25	3966.5	3371.5	229.5
	SLE Rare -	2.25	1.78	-223.24	739.9	-799.8	-20.8
	SLE Rare +	2.76	1.90	-215.87	787.8	-649.9	-20.1
	SLE Frequenti -	1.84	1.82	-205.50	771.6	-615.8	-19.0
	SLE Frequenti +	2.13	1.94	-202.50	813.2	-527.9	-18.8
	SLE Quasi Permanenti -	1.93	1.86	-202.50	790.8	-555.9	-18.8
	SLE Quasi Permanenti +	1.93	1.86	-202.50	790.8	-555.9	-18.8
	SLD -	-5.93	-9.79	-272.97	-555.4	-2224.8	-125.0
	SLD +	9.79	13.51	-132.02	2137.0	1113.1	87.5
12	SLU Statiche -	-1.74	8.89	-280.60	2640.7	-521.7	-11.6
	SLU Statiche +	1.81	11.21	-221.04	3704.4	528.4	-6.8
	SLV -	-19.13	-17.73	-247.86	-912.7	-4429.0	-254.1
	SLV +	21.20	32.28	-114.94	5849.7	3834.3	240.0
	SLE Rare -	1.22	7.65	-193.06	2574.1	-449.0	-8.2
	SLE Rare +	1.55	7.71	-191.35	2580.7	-351.0	-7.7
	SLE Frequenti -	0.96	7.27	-185.52	2468.5	-336.5	-7.3
	SLE Frequenti +	1.17	7.44	-181.40	2518.9	-275.2	-7.1
	SLE Quasi Permanenti -	1.04	7.27	-181.40	2468.5	-297.3	-7.1
	SLE Quasi Permanenti +	1.04	7.27	-181.40	2468.5	-297.3	-7.1
	SLD -	-7.61	-3.33	-209.58	1035.7	-2068.4	-112.8
	SLD +	9.68	17.87	-153.22	3901.4	1473.7	98.7
13	SLU Statiche -	-0.00	10.07	-272.55	3011.2	0.0	0.0
	SLU Statiche +	-0.00	13.07	-233.68	4291.4	0.0	0.0
	SLV -	-17.50	-12.68	-198.17	-229.3	-3318.4	-242.7
	SLV +	17.50	29.60	-155.24	5912.0	3318.4	242.7
	SLE Rare -	-0.00	8.92	-185.67	2972.2	0.0	0.0
	SLE Rare +	-0.00	9.01	-185.43	2991.4	0.0	0.0
	SLE Frequenti -	-0.00	8.46	-181.31	2841.3	0.0	0.0
	SLE Frequenti +	-0.00	8.64	-176.61	2897.2	0.0	0.0
	SLE Quasi Permanenti -	-0.00	8.46	-176.71	2841.3	0.0	0.0
	SLE Quasi Permanenti +	-0.00	8.46	-176.71	2841.3	0.0	0.0
	SLD -	-7.51	-0.50	-185.80	1540.3	-1423.7	-103.9
	SLD +	7.51	17.42	-167.61	4142.3	1423.7	103.9
14	SLU Statiche -	-1.81	8.89	-280.60	2640.7	-528.4	6.8
	SLU Statiche +	1.74	11.21	-221.04	3704.4	521.7	11.6
	SLV -	-21.20	-17.73	-247.86	-912.7	-3834.4	-240.0
	SLV +	19.13	32.28	-114.94	5849.7	4429.0	254.1
	SLE Rare -	-1.55	7.65	-193.06	2574.1	351.0	7.7
	SLE Rare +	-1.22	7.71	-191.35	2580.7	449.0	8.2

Nodo	Comb.	Tx [kN]	Ty [kN]	N [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
	SLE Frequenti -	-1.17	7.27	-185.52	2468.5	275.2	7.1
	SLE Frequenti +	-0.96	7.44	-181.40	2518.9	336.5	7.3
	SLE Quasi Permanenti -	-1.04	7.27	-181.40	2468.5	297.3	7.1
	SLE Quasi Permanenti +	-1.04	7.27	-181.40	2468.5	297.3	7.1
	SLD -	-9.68	-3.33	-209.58	1035.7	-1473.7	-98.7
	SLD +	7.61	17.87	-153.22	3901.4	2068.4	112.8
15	SLU Statiche -	-3.40	2.74	-317.35	895.1	-531.2	18.6
	SLU Statiche +	1.73	3.24	-198.70	1148.1	982.1	29.6
	SLV -	-20.27	-25.61	-368.74	-2385.0	-3371.5	-229.5
	SLV +	16.41	29.34	-36.25	3966.5	4483.2	267.0
	SLE Rare -	-2.76	1.78	-223.24	739.9	649.9	20.1
	SLE Rare +	-2.25	1.90	-215.87	787.8	799.8	20.8
	SLE Frequenti -	-2.13	1.82	-205.50	771.6	527.9	18.8
	SLE Frequenti +	-1.84	1.94	-202.50	813.2	615.8	19.0
	SLE Quasi Permanenti -	-1.93	1.86	-202.50	790.8	555.9	18.8
	SLE Quasi Permanenti +	-1.93	1.86	-202.50	790.8	555.9	18.8
	SLD -	-9.79	-9.79	-272.97	-555.4	-1113.1	-87.5
	SLD +	5.93	13.51	-132.02	2137.0	2224.8	125.0

Sollecitazioni nei setti

Convenzioni adottate

L'elemento parete viene individuato tramite il numero dei due nodi a numerazione più bassa cui fa capo l'elemento. La numerazione dei nodi e le convenzioni sulle sollecitazioni agenti nel setto sono le seguenti:



Dove:

F_x, F_y, F_z
forze, agenti nel generico nodo, in direzione degli assi locali **x**, **y**, **z**.

M_x, M_y, M_z
momenti agenti nel generico nodo ed aventi asse vettore concorde con gli assi locali **x**, **y**, **z**.

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
SLU Statiche -	1	25.05	43.58	-18.03	-2269.7	57.6	-189.8
	16	-16.04	11.11	2.45	-1413.8	361.5	619.4
	101	-46.63	20.77	-3.26	-295.0	116.6	-1258.6
	102	-17.90	-39.26	3.17	-2184.0	140.2	14.0

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	17	2.25	-56.85	5.28	-225.0	130.8	91.4
	2	15.97	-13.14	-5.41	-946.7	-32.1	-2476.9
SLU Statiche +	1	36.70	91.48	-12.64	-1667.6	461.2	1148.4
	16	-0.11	23.28	11.77	-1042.1	1832.5	1029.2
	101	-26.48	38.28	-2.17	40.0	618.3	-505.5
	102	-16.68	-23.07	12.47	-728.6	627.4	417.3
	17	18.09	-39.25	9.98	-200.3	1013.6	175.3
	2	26.11	22.69	-3.66	-879.0	241.1	-570.7
SLV -	1	2.26	1.33	-16.20	-2063.6	-223.0	-666.2
	16	-23.28	-64.54	-1.53	-1556.1	659.1	55.2
	101	-63.10	-30.52	-6.07	-536.0	235.2	-1038.4
	102	-32.57	-42.31	6.41	-1360.3	261.0	-198.1
	17	-40.26	-73.88	4.52	-438.2	355.8	-418.9
	2	-22.91	-35.95	-7.92	-1013.5	-340.6	-3769.0
SLV +	1	47.35	127.80	-7.70	-962.9	714.4	2281.5
	16	6.79	89.12	9.19	-340.1	1384.1	1229.9
	101	7.80	74.72	1.64	286.3	454.5	-437.4
	102	10.73	-6.14	7.50	-1118.3	442.1	799.8
	17	55.87	4.55	7.98	130.3	751.0	642.8
	2	51.33	75.68	2.17	-223.4	574.4	240.1
SLE Rare -	1	25.43	65.35	-12.57	-1576.4	291.1	843.8
	16	-12.19	14.54	0.81	-980.0	1180.2	694.4
	101	-32.99	24.81	-2.29	-227.1	398.4	-911.2
	102	-12.05	-27.78	8.02	-1593.8	404.8	309.5
	17	10.36	-39.59	6.75	-151.4	647.7	120.1
	2	16.43	18.19	-2.73	-636.4	146.9	-1846.5
SLE Rare +	1	25.67	65.98	-12.49	-1572.9	345.3	899.7
	16	-9.99	16.63	2.74	-971.6	1361.0	726.3
	101	-30.63	27.13	-2.26	-169.3	459.8	-826.1
	102	-11.83	-26.34	9.19	-1412.9	464.5	328.1
	17	13.46	-37.77	7.12	-139.2	759.2	125.2
	2	18.33	18.78	-2.29	-615.8	186.1	-1812.9
SLE Frequenti -	1	24.71	64.34	-12.18	-1545.3	241.3	797.8
	16	-9.12	12.29	3.06	-968.2	1010.4	642.5
	101	-28.59	22.10	-2.26	-148.0	341.0	-772.0
	102	-11.27	-24.80	6.90	-1311.6	348.4	299.5
	17	7.53	-35.39	6.25	-158.8	544.8	111.9
	2	14.21	19.62	-3.03	-637.8	112.2	-1777.9
SLE Frequenti +	1	25.35	65.51	-11.95	-1512.4	267.4	830.0
	16	-8.02	13.12	4.25	-944.8	1093.9	655.3
	101	-27.65	23.03	-2.21	-118.2	369.4	-737.9
	102	-10.92	-24.23	7.43	-1235.6	375.4	305.3
	17	9.04	-34.66	6.40	-149.1	598.0	114.0
	2	14.97	19.86	-2.70	-610.2	132.6	-1764.4
SLE Quasi Permanenti -	1	24.80	64.56	-11.95	-1513.3	245.7	807.6
	16	-8.24	12.29	3.83	-948.1	1021.6	642.5
	101	-27.65	22.10	-2.21	-124.9	344.8	-737.9
	102	-10.92	-24.23	6.96	-1239.3	351.6	300.8
	17	7.80	-34.66	6.25	-154.0	553.4	111.9
	2	14.21	19.86	-2.88	-618.5	116.9	-1764.4
SLE Quasi Permanenti +	1	24.80	64.56	-11.95	-1513.3	245.7	807.6
	16	-8.24	12.29	3.83	-948.1	1021.6	642.5
	101	-27.65	22.10	-2.21	-124.9	344.8	-737.9
	102	-10.92	-24.23	6.96	-1239.3	351.6	300.8
	17	7.80	-34.66	6.25	-154.0	553.4	111.9
	2	14.21	19.86	-2.88	-618.5	116.9	-1764.4

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
SLD -	1	15.15	37.69	-13.76	-1747.6	46.8	180.8
	16	-14.62	-20.28	1.55	-1205.9	867.8	393.7
	101	-42.67	-0.21	-3.85	-299.1	298.3	-865.5
	102	-20.10	-31.96	6.73	-1290.6	313.1	89.3
	17	-12.58	-51.37	5.51	-275.9	469.6	-113.2
	2	-1.52	-3.81	-5.02	-786.1	-77.3	-2615.7
SLD +	1	34.46	91.44	-10.14	-1278.9	444.6	1434.5
	16	-1.86	44.86	6.12	-690.3	1175.3	891.4
	101	-12.63	44.41	-0.58	49.4	391.4	-610.3
	102	-1.74	-16.50	7.19	-1188.0	390.1	512.4
	17	28.19	-17.96	6.98	-32.1	637.2	337.0
	2	29.94	43.54	-0.73	-450.8	311.1	-913.2
SLU Statiche -	2	-5.77	-6.50	-3.59	-1185.0	69.8	-527.8
	17	-18.09	39.25	-9.98	200.3	-1013.6	-175.3
	102	-26.04	-16.16	5.87	-3262.1	-172.9	-2627.0
	103	-11.83	-39.14	5.96	-3710.7	158.2	44.1
	18	11.85	-0.00	0.00	-0.0	142.9	-386.6
	3	21.35	-23.02	-12.99	-2187.1	11.1	-2025.2
SLU Statiche +	2	-3.07	50.49	-1.46	-617.1	156.1	2009.2
	17	-2.25	56.85	-5.28	225.0	-130.8	-91.4
	102	-16.53	3.59	14.91	-1329.4	-37.7	-948.3
	103	-11.36	-13.32	11.65	-1515.1	395.2	1168.0
	18	27.88	-0.00	0.00	0.0	150.0	-284.0
	3	33.39	25.88	-5.10	-1061.0	152.7	328.0
SLV -	2	-28.40	3.76	-3.80	-999.3	-43.2	817.8
	17	-55.87	-4.55	-7.98	-130.3	-751.0	-642.8
	102	-42.37	-28.06	7.61	-2059.7	-205.1	-2125.1
	103	-34.15	-44.90	5.79	-2245.1	131.1	190.4
	18	-16.22	-42.06	-0.83	-98.7	83.3	-221.2
	3	-18.94	-5.72	-8.44	-1583.9	-88.1	-2145.8
SLV +	2	21.61	68.07	0.09	-345.7	229.7	2090.9
	17	40.26	73.88	-4.52	438.2	-355.8	418.9
	102	10.74	10.25	9.71	-1729.9	14.4	-1006.5
	103	18.79	-1.81	7.99	-2051.2	328.5	1126.8
	18	47.57	42.06	0.83	98.7	111.7	-74.9
	3	56.97	48.93	-6.47	-975.8	259.4	-641.9
SLE Rare -	2	-4.11	37.29	-2.59	-843.2	103.2	1503.5
	17	-13.46	37.77	-7.12	139.2	-759.2	-125.2
	102	-18.27	-12.69	9.74	-2358.6	-128.0	-1914.2
	103	-7.92	-28.63	7.65	-2682.4	258.3	760.2
	18	17.91	-0.00	0.00	0.0	94.9	-200.2
	3	21.45	21.33	-9.40	-1565.1	99.0	-1585.5
SLE Rare +	2	-3.78	39.41	-2.22	-762.5	112.4	1595.8
	17	-10.36	39.59	-6.75	151.4	-647.7	-120.1
	102	-17.29	-10.48	10.80	-2130.4	-110.7	-1741.6
	103	-7.61	-25.99	8.31	-2419.1	286.0	887.5
	18	20.09	-0.00	0.00	0.0	99.6	-180.4
	3	23.37	22.25	-8.43	-1430.2	115.3	-1470.3
SLE Frequenti -	2	-3.53	35.54	-2.00	-704.8	93.3	1432.8
	17	-9.04	34.66	-6.40	149.1	-598.0	-114.0
	102	-16.20	-9.79	8.66	-1986.1	-102.3	-1634.9
	103	-7.95	-24.41	6.89	-2253.5	229.8	645.8
	18	15.68	-0.00	0.00	0.0	95.6	-156.0
	3	19.02	21.01	-7.84	-1333.8	84.1	-1439.9
SLE Frequenti +	2	-3.40	36.76	-1.85	-672.5	96.9	1491.3

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	17	-7.53	35.39	-6.25	158.8	-544.8	-111.9
	102	-15.81	-8.58	9.08	-1894.8	-94.4	-1565.8
	103	-7.56	-23.35	7.15	-2148.2	240.9	709.5
	18	16.55	-0.00	0.00	0.0	100.9	-148.1
	3	19.79	21.98	-7.45	-1279.8	92.2	-1374.4
SLE Quasi Permanenti -	2	-3.40	35.92	-1.85	-672.5	93.3	1454.3
	17	-7.80	34.66	-6.25	154.0	-553.4	-111.9
	102	-15.81	-8.91	8.66	-1894.8	-95.3	-1565.8
	103	-7.68	-23.35	6.89	-2148.2	229.8	658.6
	18	15.68	-0.00	0.00	0.0	97.5	-148.1
	3	19.02	21.61	-7.45	-1279.8	85.6	-1393.8
SLE Quasi Permanenti +	2	-3.40	35.92	-1.85	-672.5	93.3	1454.3
	17	-7.80	34.66	-6.25	154.0	-553.4	-111.9
	102	-15.81	-8.91	8.66	-1894.8	-95.3	-1565.8
	103	-7.68	-23.35	6.89	-2148.2	229.8	658.6
	18	15.68	-0.00	0.00	0.0	97.5	-148.1
	3	19.02	21.61	-7.45	-1279.8	85.6	-1393.8
SLD -	2	-14.04	22.21	-2.68	-811.1	34.8	1183.6
	17	-28.19	17.96	-6.98	32.1	-637.2	-337.0
	102	-27.16	-17.04	8.22	-1965.5	-142.5	-1805.0
	103	-19.02	-32.58	6.42	-2189.3	187.4	459.8
	18	2.16	-17.99	-0.35	-42.3	91.5	-179.1
	3	2.93	10.02	-7.87	-1408.7	11.8	-1713.0
SLD +	2	7.25	49.62	-1.03	-533.9	151.8	1725.1
	17	12.58	51.37	-5.51	275.9	-469.6	113.2
	102	-4.47	-0.78	9.11	-1824.1	-48.2	-1326.6
	103	3.65	-14.13	7.36	-2107.1	272.2	857.5
	18	29.19	17.99	0.35	42.3	103.5	-117.1
	3	35.11	33.20	-7.03	-1151.0	159.5	-1074.7
SLU Statiche -	3	-33.39	-23.02	-12.99	-2187.1	-152.7	-328.0
	18	-27.88	0.00	-0.00	-0.0	-150.0	284.0
	103	11.36	-39.14	5.96	-3710.7	-395.2	-1168.0
	104	16.53	-16.16	5.87	-3262.1	37.7	948.3
	19	2.25	39.25	-9.98	200.3	130.8	91.4
	4	3.07	-6.50	-3.59	-1185.0	-156.1	-2009.2
SLU Statiche +	3	-21.35	25.88	-5.10	-1061.0	-11.1	2025.2
	18	-11.85	0.00	-0.00	0.0	-142.9	386.6
	103	11.83	-13.32	11.65	-1515.1	-158.2	-44.1
	104	26.04	3.59	14.91	-1329.4	172.9	2627.0
	19	18.09	56.85	-5.28	225.0	1013.6	175.3
	4	5.77	50.49	-1.46	-617.1	-69.8	527.8
SLV -	3	-56.97	-5.72	-8.44	-1583.9	-259.4	641.9
	18	-47.57	-42.06	-0.83	-98.7	-111.7	74.9
	103	-18.79	-44.90	5.79	-2245.1	-328.5	-1126.8
	104	-10.74	-28.06	7.61	-2059.7	-14.4	1006.5
	19	-40.26	-4.55	-7.98	-130.3	355.8	-418.9
	4	-21.61	3.76	-3.80	-999.3	-229.7	-2090.9
SLV +	3	18.94	48.93	-6.47	-975.8	88.1	2145.8
	18	16.22	42.06	0.83	98.7	-83.3	221.2
	103	34.15	-1.81	7.99	-2051.2	-131.1	-190.4
	104	42.37	10.25	9.71	-1729.9	205.1	2125.1
	19	55.87	73.88	-4.52	438.2	751.0	642.8
	4	28.40	68.07	0.09	-345.7	43.2	-817.8
SLE Rare -	3	-23.37	21.33	-9.40	-1565.1	-115.3	1470.3
	18	-20.09	0.00	-0.00	-0.0	-99.6	180.4

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	103	7.61	-28.63	7.65	-2682.4	-286.0	-887.5
	104	17.29	-12.69	9.74	-2358.6	110.7	1741.6
	19	10.36	37.77	-7.12	139.2	647.7	120.1
	4	3.78	37.29	-2.59	-843.2	-112.4	-1595.8
SLE Rare +	3	-21.45	22.25	-8.43	-1430.2	-99.0	1585.5
	18	-17.91	0.00	-0.00	-0.0	-94.9	200.2
	103	7.92	-25.99	8.31	-2419.1	-258.3	-760.2
	104	18.27	-10.48	10.80	-2130.4	128.0	1914.2
	19	13.46	39.59	-6.75	151.4	759.2	125.2
	4	4.11	39.41	-2.22	-762.5	-103.2	-1503.5
SLE Frequenti -	3	-19.79	21.01	-7.84	-1333.8	-92.2	1374.4
	18	-16.55	0.00	-0.00	-0.0	-100.9	148.1
	103	7.56	-24.41	6.89	-2253.5	-240.9	-709.5
	104	15.81	-9.79	8.66	-1986.1	94.4	1565.8
	19	7.53	34.66	-6.40	149.1	544.8	111.9
	4	3.40	35.54	-2.00	-704.8	-96.9	-1491.3
SLE Frequenti +	3	-19.02	21.98	-7.45	-1279.8	-84.1	1439.9
	18	-15.68	0.00	-0.00	-0.0	-95.6	156.0
	103	7.95	-23.35	7.15	-2148.2	-229.8	-645.8
	104	16.20	-8.58	9.08	-1894.8	102.3	1634.9
	19	9.04	35.39	-6.25	158.8	598.0	114.0
	4	3.53	36.76	-1.85	-672.5	-93.3	-1432.8
SLE Quasi Permanenti -	3	-19.02	21.61	-7.45	-1279.8	-85.6	1393.8
	18	-15.68	0.00	-0.00	-0.0	-97.5	148.1
	103	7.68	-23.35	6.89	-2148.2	-229.8	-658.6
	104	15.81	-8.91	8.66	-1894.8	95.3	1565.8
	19	7.80	34.66	-6.25	154.0	553.4	111.9
	4	3.40	35.92	-1.85	-672.5	-93.3	-1454.3
SLE Quasi Permanenti +	3	-19.02	21.61	-7.45	-1279.8	-85.6	1393.8
	18	-15.68	0.00	-0.00	-0.0	-97.5	148.1
	103	7.68	-23.35	6.89	-2148.2	-229.8	-658.6
	104	15.81	-8.91	8.66	-1894.8	95.3	1565.8
	19	7.80	34.66	-6.25	154.0	553.4	111.9
	4	3.40	35.92	-1.85	-672.5	-93.3	-1454.3
SLD -	3	-35.11	10.02	-7.87	-1408.7	-159.5	1074.7
	18	-29.19	-17.99	-0.35	-42.3	-103.5	117.1
	103	-3.65	-32.58	6.42	-2189.3	-272.2	-857.5
	104	4.47	-17.04	8.22	-1965.5	48.2	1326.6
	19	-12.58	17.96	-6.98	32.1	469.6	-113.2
	4	-7.25	22.21	-2.68	-811.1	-151.8	-1725.1
SLD +	3	-2.93	33.20	-7.03	-1151.0	-11.8	1713.0
	18	-2.16	17.99	0.35	42.3	-91.5	179.1
	103	19.02	-14.13	7.36	-2107.1	-187.4	-459.8
	104	27.16	-0.78	9.11	-1824.1	142.5	1805.0
	19	28.19	51.37	-5.51	275.9	637.2	337.0
	4	14.04	49.62	-1.03	-533.9	-34.8	-1183.6
SLU Statiche -	4	-26.11	-13.14	-5.41	-946.7	-241.1	570.7
	19	-18.09	-56.85	5.28	-225.0	-1013.6	-175.3
	104	16.68	-39.26	3.17	-2184.0	-627.4	-417.3
	105	26.48	20.77	-3.26	-295.0	-618.3	505.5
	20	0.11	11.11	2.45	-1413.8	-1832.5	-1029.2
	5	-36.70	43.58	-18.03	-2269.7	-461.2	-1148.4
SLU Statiche +	4	-15.97	22.69	-3.66	-879.0	32.1	2476.9
	19	-2.25	-39.25	9.98	-200.3	-130.8	-91.4
	104	17.90	-23.07	12.47	-728.6	-140.2	-14.0

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	105	46.63	38.28	-2.17	40.0	-116.6	1258.6
	20	16.04	23.28	11.77	-1042.1	-361.5	-619.4
	5	-25.05	91.48	-12.64	-1667.6	-57.6	189.8
SLV -	4	-51.33	-35.95	-7.92	-1013.5	-574.4	-240.1
	19	-55.87	-73.88	4.52	-438.2	-751.0	-642.8
	104	-10.73	-42.31	6.41	-1360.3	-442.1	-799.8
	105	-7.80	-30.52	-6.07	-536.0	-454.5	437.4
	20	-6.79	-64.54	-1.53	-1556.1	-1384.1	-1229.9
	5	-47.35	1.33	-16.20	-2063.6	-714.4	-2281.5
SLV +	4	22.91	75.68	2.17	-223.4	340.6	3769.0
	19	40.26	4.55	7.98	130.3	-355.8	418.9
	104	32.57	-6.14	7.50	-1118.3	-261.0	198.1
	105	63.10	74.72	1.64	286.3	-235.2	1038.4
	20	23.28	89.12	9.19	-340.1	-659.1	-55.2
	5	-2.26	127.80	-7.70	-962.9	223.0	666.2
SLE Rare -	4	-18.33	18.19	-2.73	-636.4	-186.1	1812.9
	19	-13.46	-39.59	6.75	-151.4	-759.2	-125.2
	104	11.83	-27.78	8.02	-1593.8	-464.5	-328.1
	105	30.63	24.81	-2.29	-227.1	-459.8	826.1
	20	9.99	14.54	0.81	-980.0	-1361.0	-726.3
	5	-25.67	65.35	-12.57	-1576.4	-345.3	-899.7
SLE Rare +	4	-16.43	18.78	-2.29	-615.8	-146.9	1846.5
	19	-10.36	-37.77	7.12	-139.2	-647.7	-120.1
	104	12.05	-26.34	9.19	-1412.9	-404.8	-309.5
	105	32.99	27.13	-2.26	-169.3	-398.4	911.2
	20	12.19	16.63	2.74	-971.6	-1180.2	-694.4
	5	-25.43	65.98	-12.49	-1572.9	-291.1	-843.8
SLE Frequenti -	4	-14.97	19.62	-3.03	-637.8	-132.6	1764.4
	19	-9.04	-35.39	6.25	-158.8	-598.0	-114.0
	104	10.92	-24.80	6.90	-1311.6	-375.4	-305.3
	105	27.65	22.10	-2.26	-148.0	-369.4	737.9
	20	8.02	12.29	3.06	-968.2	-1093.9	-655.3
	5	-25.35	64.34	-12.18	-1545.3	-267.4	-830.0
SLE Frequenti +	4	-14.21	19.86	-2.70	-610.2	-112.2	1777.9
	19	-7.53	-34.66	6.40	-149.1	-544.8	-111.9
	104	11.27	-24.23	7.43	-1235.6	-348.4	-299.5
	105	28.59	23.03	-2.21	-118.2	-341.0	772.0
	20	9.12	13.12	4.25	-944.8	-1010.4	-642.5
	5	-24.71	65.51	-11.95	-1512.4	-241.3	-797.8
SLE Quasi Permanenti -	4	-14.21	19.86	-2.88	-618.5	-116.9	1764.4
	19	-7.80	-34.66	6.25	-154.0	-553.4	-111.9
	104	10.92	-24.23	6.96	-1239.3	-351.6	-300.8
	105	27.65	22.10	-2.21	-124.9	-344.8	737.9
	20	8.24	12.29	3.83	-948.1	-1021.6	-642.5
	5	-24.80	64.56	-11.95	-1513.3	-245.7	-807.6
SLE Quasi Permanenti +	4	-14.21	19.86	-2.88	-618.5	-116.9	1764.4
	19	-7.80	-34.66	6.25	-154.0	-553.4	-111.9
	104	10.92	-24.23	6.96	-1239.3	-351.6	-300.8
	105	27.65	22.10	-2.21	-124.9	-344.8	737.9
	20	8.24	12.29	3.83	-948.1	-1021.6	-642.5
	5	-24.80	64.56	-11.95	-1513.3	-245.7	-807.6
SLD -	4	-29.94	-3.81	-5.02	-786.1	-311.1	913.2
	19	-28.19	-51.37	5.51	-275.9	-637.2	-337.0
	104	1.74	-31.96	6.73	-1290.6	-390.1	-512.4
	105	12.63	-0.21	-3.85	-299.1	-391.4	610.3
	20	1.86	-20.28	1.55	-1205.9	-1175.3	-891.4

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	5	-34.46	37.69	-13.76	-1747.6	-444.6	-1434.5
SLD +	4	1.52	43.54	-0.73	-450.8	77.3	2615.7
	19	12.58	-17.96	6.98	-32.1	-469.6	113.2
	104	20.10	-16.50	7.19	-1188.0	-313.1	-89.3
	105	42.67	44.41	-0.58	49.4	-298.3	865.5
	20	14.62	44.86	6.12	-690.3	-867.8	-393.7
	5	-15.15	91.44	-10.14	-1278.9	-46.8	-180.8
SLU Statiche -	6	2.57	-29.75	-2.92	-345.6	-34.0	-1418.5
	21	70.43	14.64	4.53	-34.9	-66.1	1965.0
	106	-41.03	8.95	1.25	-1132.0	-294.5	-1084.8
	101	-17.72	-41.58	0.40	-447.8	-589.4	277.1
	16	-11.77	-23.28	-16.04	-1029.2	-1832.5	-1413.8
	1	-61.17	38.00	-6.70	-855.0	-470.4	1606.7
SLU Statiche +	6	7.19	-26.89	0.76	-95.9	55.6	-1351.5
	21	119.80	31.52	12.86	25.1	159.5	2662.0
	106	-17.90	24.88	8.66	-314.4	-58.9	-454.4
	101	-7.28	-20.73	0.96	-175.4	-131.0	534.3
	16	-2.45	-11.11	-0.11	-619.4	-361.5	-1042.1
	1	-40.66	81.17	-3.71	-588.4	-84.5	1651.8
SLV -	6	-20.99	-37.31	-6.44	-477.3	-284.9	-2201.3
	21	41.45	-113.13	6.22	-323.4	-266.1	793.0
	106	-68.14	-38.82	1.10	-1031.8	-248.8	-1526.8
	101	-47.05	-73.49	-6.93	-1073.7	-455.4	44.6
	16	-9.19	-89.12	-23.28	-1229.9	-1384.1	-1556.1
	1	-64.86	-23.18	-6.75	-949.3	-535.8	117.5
SLV +	6	27.71	4.76	6.54	315.7	269.5	356.7
	21	109.07	150.71	8.55	320.3	184.8	2815.2
	106	19.70	65.41	8.74	-260.5	-90.2	180.3
	101	27.92	24.16	7.21	589.2	-207.3	672.2
	16	1.53	64.54	6.79	-55.2	-659.1	-340.1
	1	-17.13	134.80	-1.75	-177.0	33.8	2006.8
SLE Rare -	6	1.34	-18.17	0.34	-70.7	-31.1	-950.1
	21	80.91	20.80	8.36	7.8	-67.2	1807.0
	106	-29.55	15.59	5.64	-832.9	-219.0	-784.9
	101	-12.76	-29.71	0.21	-323.9	-436.4	375.4
	16	-2.74	-16.63	-12.19	-726.3	-1361.0	-980.0
	1	-42.88	57.84	-4.76	-597.0	-349.7	1068.9
SLE Rare +	6	2.64	-17.66	0.86	-39.6	-16.8	-923.3
	21	84.65	22.63	9.36	21.7	-48.6	1844.9
	106	-26.98	18.02	6.49	-736.0	-192.7	-732.7
	101	-11.16	-27.38	0.24	-282.7	-380.8	386.7
	16	-0.81	-14.54	-9.99	-694.4	-1180.2	-971.6
	1	-42.68	58.52	-4.57	-592.0	-296.7	1099.0
SLE Frequenti -	6	2.84	-16.71	-0.06	-91.3	-13.4	-949.6
	21	75.26	18.79	7.37	-3.8	-48.1	1788.9
	106	-25.25	13.23	4.86	-684.9	-180.0	-694.1
	101	-10.21	-25.60	0.14	-258.7	-353.6	358.4
	16	-4.25	-13.12	-9.12	-655.3	-1093.9	-968.2
	1	-41.74	55.81	-4.33	-575.0	-272.2	1050.2
SLE Frequenti +	6	3.65	-16.27	0.26	-68.4	-5.1	-911.6
	21	76.75	19.52	7.78	4.0	-35.4	1843.4
	106	-24.22	14.26	5.26	-642.7	-167.9	-673.3
	101	-9.56	-24.67	0.16	-241.9	-328.3	363.0
	16	-3.06	-12.29	-8.02	-642.5	-1010.4	-944.8
	1	-41.00	56.48	-4.25	-563.1	-247.4	1095.6

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
SLE Quasi Permanenti -	6	3.36	-16.27	0.05	-80.8	-7.7	-922.3
	21	75.26	18.79	7.38	-1.6	-40.7	1804.1
	106	-24.22	13.29	4.92	-646.2	-169.5	-673.3
	101	-9.57	-24.67	0.14	-242.2	-331.3	358.4
	16	-3.83	-12.29	-8.24	-642.5	-1021.6	-948.1
	1	-41.00	55.81	-4.25	-563.1	-251.0	1062.2
SLE Quasi Permanenti +	6	3.36	-16.27	0.05	-80.8	-7.7	-922.3
	21	75.26	18.79	7.38	-1.6	-40.7	1804.1
	106	-24.22	13.29	4.92	-646.2	-169.5	-673.3
	101	-9.57	-24.67	0.14	-242.2	-331.3	358.4
	16	-3.83	-12.29	-8.24	-642.5	-1021.6	-948.1
	1	-41.00	55.81	-4.25	-563.1	-251.0	1062.2
SLD -	6	-6.96	-25.19	-2.70	-249.1	-125.2	-1464.5
	21	60.93	-37.17	6.89	-138.3	-136.3	1375.4
	106	-42.85	-8.81	3.30	-809.8	-203.2	-1035.2
	101	-25.47	-45.36	-2.86	-594.8	-384.0	225.0
	16	-6.12	-44.86	-14.62	-891.4	-1175.3	-1205.9
	1	-51.13	22.28	-5.31	-728.7	-371.7	661.8
SLD +	6	13.68	-7.36	2.80	87.5	109.8	-380.2
	21	89.59	74.74	7.88	135.2	55.0	2232.8
	106	-5.59	35.40	6.54	-482.6	-135.8	-311.4
	101	6.33	-3.97	3.14	110.3	-278.7	491.7
	16	-1.55	20.28	-1.86	-393.7	-867.8	-690.3
	1	-30.87	89.33	-3.19	-397.5	-130.3	1462.6
SLU Statiche -	10	2.57	-29.75	-0.76	95.9	-55.6	-1418.5
	22	70.43	14.64	-12.86	-25.1	-159.5	1965.0
	110	-41.03	8.95	-8.66	314.4	58.9	-1084.8
	105	-17.72	-41.58	-0.96	175.4	131.0	277.1
	20	-11.77	-23.28	0.11	619.4	361.5	-1413.8
	5	-61.17	38.00	3.71	588.4	84.5	1606.7
SLU Statiche +	10	7.19	-26.89	2.92	345.6	34.0	-1351.5
	22	119.80	31.52	-4.53	34.9	66.1	2662.0
	110	-17.90	24.88	-1.25	1132.0	294.5	-454.4
	105	-7.28	-20.73	-0.40	447.8	589.4	534.3
	20	-2.45	-11.11	16.04	1029.2	1832.5	-1042.1
	5	-40.66	81.17	6.70	855.0	470.4	1651.8
SLV -	10	-20.99	-37.31	-6.54	-315.7	-269.5	-2201.3
	22	41.45	-113.13	-8.55	-320.3	-184.8	793.0
	110	-68.14	-38.82	-8.74	260.5	90.2	-1526.8
	105	-47.05	-73.49	-7.21	-589.2	207.3	44.6
	20	-9.19	-89.12	-6.79	55.2	659.1	-1556.1
	5	-64.86	-23.18	1.75	177.0	-33.8	117.5
SLV +	10	27.71	4.76	6.44	477.3	284.9	356.7
	22	109.07	150.71	-6.22	323.4	266.1	2815.2
	110	19.70	65.41	-1.10	1031.8	248.8	180.3
	105	27.92	24.16	6.93	1073.7	455.4	672.2
	20	1.53	64.54	23.28	1229.9	1384.1	-340.1
	5	-17.13	134.80	6.75	949.3	535.8	2006.8
SLE Rare -	10	1.34	-18.17	-0.86	39.6	16.8	-950.1
	22	80.91	20.80	-9.36	-21.7	48.6	1807.0
	110	-29.55	15.59	-6.49	736.0	192.7	-784.9
	105	-12.76	-29.71	-0.24	282.7	380.8	375.4
	20	-2.74	-16.63	9.99	694.4	1180.2	-980.0
	5	-42.88	57.84	4.57	592.0	296.7	1068.9
SLE Rare +	10	2.64	-17.66	-0.34	70.7	31.1	-923.3

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	22	84.65	22.63	-8.36	-7.8	67.2	1844.9
	110	-26.98	18.02	-5.64	832.9	219.0	-732.7
	105	-11.16	-27.38	-0.21	323.9	436.4	386.7
	20	-0.81	-14.54	12.19	726.3	1361.0	-971.6
	5	-42.68	58.52	4.76	597.0	349.7	1099.0
SLE Frequenti -	10	2.84	-16.71	-0.26	68.4	5.1	-949.6
	22	75.26	18.79	-7.78	-4.0	35.4	1788.9
	110	-25.25	13.23	-5.26	642.7	167.9	-694.1
	105	-10.21	-25.60	-0.16	241.9	328.3	358.4
	20	-4.25	-13.12	8.02	642.5	1010.4	-968.2
	5	-41.74	55.81	4.25	563.1	247.4	1050.2
SLE Frequenti +	10	3.65	-16.27	0.06	91.3	13.4	-911.6
	22	76.75	19.52	-7.37	3.8	48.1	1843.4
	110	-24.22	14.26	-4.86	684.9	180.0	-673.3
	105	-9.56	-24.67	-0.14	258.7	353.6	363.0
	20	-3.06	-12.29	9.12	655.3	1093.9	-944.8
	5	-41.00	56.48	4.33	575.0	272.2	1095.6
SLE Quasi Permanenti -	10	3.36	-16.27	-0.05	80.8	7.7	-922.3
	22	75.26	18.79	-7.38	1.6	40.7	1804.1
	110	-24.22	13.29	-4.92	646.2	169.5	-673.3
	105	-9.57	-24.67	-0.14	242.2	331.3	358.4
	20	-3.83	-12.29	8.24	642.5	1021.6	-948.1
	5	-41.00	55.81	4.25	563.1	251.0	1062.2
SLE Quasi Permanenti +	10	3.36	-16.27	-0.05	80.8	7.7	-922.3
	22	75.26	18.79	-7.38	1.6	40.7	1804.1
	110	-24.22	13.29	-4.92	646.2	169.5	-673.3
	105	-9.57	-24.67	-0.14	242.2	331.3	358.4
	20	-3.83	-12.29	8.24	642.5	1021.6	-948.1
	5	-41.00	55.81	4.25	563.1	251.0	1062.2
SLD -	10	-6.96	-25.19	-2.80	-87.5	-109.8	-1464.5
	22	60.93	-37.17	-7.88	-135.2	-55.0	1375.4
	110	-42.85	-8.81	-6.54	482.6	135.8	-1035.2
	105	-25.47	-45.36	-3.14	-110.3	278.7	225.0
	20	-6.12	-44.86	1.86	393.7	867.8	-1205.9
	5	-51.13	22.28	3.19	397.5	130.3	661.8
SLD +	10	13.68	-7.36	2.70	249.1	125.2	-380.2
	22	89.59	74.74	-6.89	138.3	136.3	2232.8
	110	-5.59	35.40	-3.30	809.8	203.2	-311.4
	105	6.33	-3.97	2.86	594.8	384.0	491.7
	20	-1.55	20.28	14.62	891.4	1175.3	-690.3
	5	-30.87	89.33	5.31	728.7	371.7	1462.6
SLU Statiche -	11	65.06	82.55	-1.01	-561.5	-433.3	-3467.4
	23	-0.00	0.00	-0.00	-0.0	0.0	0.0
	111	19.87	-63.73	5.79	-3051.8	-519.1	930.9
	106	-24.63	-51.02	1.40	-1143.7	-169.8	472.7
	21	-119.80	-31.52	-12.86	-25.1	-159.5	-2662.0
	6	-19.89	-24.82	-4.25	-710.0	-584.7	189.5
SLU Statiche +	11	116.75	187.65	0.51	-235.6	-181.1	-2429.1
	23	-0.00	0.00	-0.00	-0.0	0.0	0.0
	111	47.57	-25.26	12.13	-1285.5	-199.2	2227.6
	106	-7.52	-17.83	5.98	-392.9	-94.8	1238.8
	21	-70.43	-14.64	-4.53	34.9	66.1	-1965.0
	6	-6.97	3.68	-3.17	-434.6	-293.9	691.7
SLV -	11	-0.20	-58.65	-4.75	-656.7	-540.6	-2831.2
	23	-0.00	0.00	-0.00	-0.0	-0.0	-0.0

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	111	11.17	-39.19	3.77	-2037.4	-317.1	793.9
	106	-41.90	-85.70	2.22	-1029.0	-160.9	691.1
	21	-109.07	-150.71	-8.55	-320.3	-184.8	-2815.2
	6	-18.05	-14.99	-4.35	-767.0	-530.5	-1407.8
SLV +	11	148.00	293.84	3.98	18.7	22.6	-1572.9
	23	0.00	0.00	0.00	0.0	0.0	0.0
	111	41.47	-32.65	9.76	-1386.7	-260.7	1628.9
	106	16.23	27.73	4.72	-285.3	-21.0	819.9
	21	-41.45	113.13	-6.22	323.4	266.1	-793.0
	6	-6.21	16.52	-0.59	-10.6	-156.0	1777.7
SLE Rare -	11	79.24	127.22	-0.81	-405.2	-312.9	-2413.4
	23	-0.00	0.00	-0.00	-0.0	0.0	0.0
	111	30.29	-46.06	7.74	-2197.5	-375.6	1405.9
	106	-17.97	-37.15	3.93	-833.9	-119.5	830.1
	21	-84.65	-22.63	-9.36	-21.7	48.6	-1844.9
	6	-14.50	2.24	-2.92	-497.2	-416.9	79.8
SLE Rare +	11	82.89	135.33	-0.56	-362.7	-286.9	-2344.5
	23	-0.00	0.00	-0.00	-0.0	0.0	0.0
	111	34.24	-40.99	8.66	-1956.7	-331.9	1601.5
	106	-15.29	-33.01	4.43	-744.4	-105.8	900.3
	21	-80.91	-20.80	-8.36	-7.8	67.2	-1807.0
	6	-13.33	5.18	-2.74	-446.8	-382.5	151.3
SLE Frequenti -	11	73.90	117.59	-0.48	-336.0	-269.4	-2238.9
	23	-0.00	0.00	-0.00	-0.0	0.0	0.0
	111	26.32	-37.95	6.76	-1808.4	-306.4	1210.8
	106	-13.91	-30.64	3.45	-693.0	-96.5	755.5
	21	-76.75	-19.52	-7.78	-4.0	35.4	-1843.4
	6	-12.60	0.04	-2.54	-408.9	-357.0	156.3
SLE Frequenti +	11	75.36	120.84	-0.35	-319.0	-259.0	-2202.1
	23	-0.00	0.00	0.00	-0.0	0.0	0.0
	111	27.90	-35.92	7.13	-1712.1	-288.5	1289.6
	106	-12.72	-28.92	3.67	-656.0	-91.0	783.6
	21	-75.26	-18.79	-7.37	3.8	48.1	-1788.9
	6	-12.13	1.93	-2.47	-388.8	-343.3	203.9
SLE Quasi Permanenti -	11	73.90	117.59	-0.38	-319.0	-259.0	-2202.1
	23	-0.00	0.00	0.00	-0.0	0.0	0.0
	111	26.32	-35.92	6.76	-1712.1	-288.9	1211.4
	106	-12.83	-28.98	3.47	-657.2	-91.0	755.5
	21	-75.26	-18.79	-7.38	1.6	40.7	-1804.1
	6	-12.13	0.76	-2.47	-388.8	-343.3	184.9
SLE Quasi Permanenti +	11	73.90	117.59	-0.38	-319.0	-259.0	-2202.1
	23	-0.00	0.00	0.00	-0.0	0.0	0.0
	111	26.32	-35.92	6.76	-1712.1	-288.9	1211.4
	106	-12.83	-28.98	3.47	-657.2	-91.0	755.5
	21	-75.26	-18.79	-7.38	1.6	40.7	-1804.1
	6	-12.13	0.76	-2.47	-388.8	-343.3	184.9
SLD -	11	42.47	42.85	-2.23	-463.8	-378.4	-2469.5
	23	-0.00	0.00	-0.00	-0.0	-0.0	0.0
	111	19.90	-37.31	5.49	-1851.7	-300.9	1034.2
	106	-25.16	-53.04	2.94	-815.3	-120.7	727.9
	21	-89.59	-74.74	-7.88	-135.2	-55.0	-2232.8
	6	-14.65	-5.92	-3.27	-549.5	-422.6	-490.6
SLD +	11	105.33	192.34	1.47	-174.2	-139.6	-1934.6
	23	0.00	0.00	0.00	0.0	0.0	0.0
	111	32.75	-34.53	8.04	-1572.4	-276.9	1388.5
	106	-0.50	-4.93	4.00	-499.0	-61.3	783.2

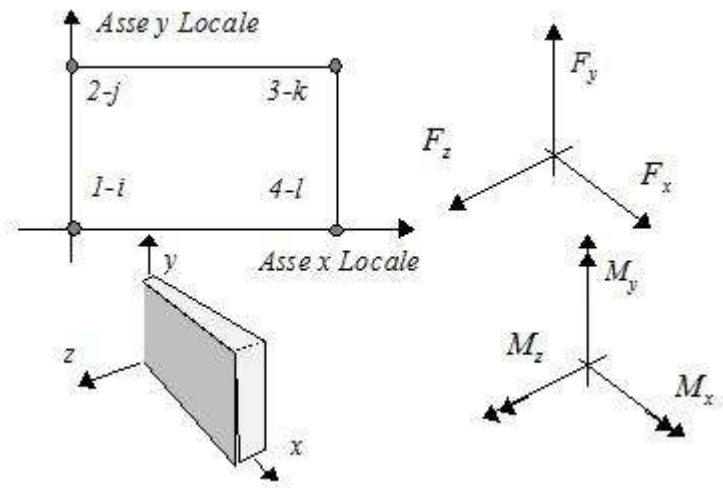
Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	21	-60.93	37.17	-6.89	138.3	136.3	-1375.4
	6	-9.62	7.45	-1.67	-228.0	-263.9	860.5
SLU Statiche -	15	65.06	82.55	-0.51	235.6	181.1	-3467.4
	24	0.00	-0.00	0.00	-0.0	0.0	-0.0
	115	19.87	-63.73	-12.13	1285.5	199.2	930.9
	110	-24.63	-51.02	-5.98	392.9	94.8	472.7
	22	-119.80	-31.52	4.53	-34.9	-66.1	-2662.0
	10	-19.89	-24.82	3.17	434.6	293.9	189.5
SLU Statiche +	15	116.75	187.65	1.01	561.5	433.3	-2429.1
	24	0.00	0.00	0.00	0.0	0.0	-0.0
	115	47.57	-25.26	-5.79	3051.8	519.1	2227.6
	110	-7.52	-17.83	-1.40	1143.7	169.8	1238.8
	22	-70.43	-14.64	12.86	25.1	159.5	-1965.0
	10	-6.97	3.68	4.25	710.0	584.7	691.7
SLV -	15	-0.20	-58.65	-3.98	-18.7	-22.6	-2831.2
	24	-0.00	-0.00	-0.00	-0.0	-0.0	-0.0
	115	11.17	-39.19	-9.76	1386.7	260.7	793.9
	110	-41.90	-85.70	-4.72	285.3	21.0	691.1
	22	-109.07	-150.71	6.22	-323.4	-266.1	-2815.2
	10	-18.05	-14.99	0.59	10.6	156.0	-1407.8
SLV +	15	148.00	293.84	4.75	656.7	540.6	-1572.9
	24	0.00	0.00	0.00	0.0	0.0	0.0
	115	41.47	-32.65	-3.77	2037.4	317.1	1628.9
	110	16.23	27.73	-2.22	1029.0	160.9	819.9
	22	-41.45	113.13	8.55	320.3	184.8	-793.0
	10	-6.21	16.52	4.35	767.0	530.5	1777.7
SLE Rare -	15	79.24	127.22	0.56	362.7	286.9	-2413.4
	24	0.00	-0.00	0.00	0.0	0.0	-0.0
	115	30.29	-46.06	-8.66	1956.7	331.9	1405.9
	110	-17.97	-37.15	-4.43	744.4	105.8	830.1
	22	-84.65	-22.63	8.36	7.8	-67.2	-1844.9
	10	-14.50	2.24	2.74	446.8	382.5	79.8
SLE Rare +	15	82.89	135.33	0.81	405.2	312.9	-2344.5
	24	0.00	-0.00	0.00	0.0	0.0	-0.0
	115	34.24	-40.99	-7.74	2197.5	375.6	1601.5
	110	-15.29	-33.01	-3.93	833.9	119.5	900.3
	22	-80.91	-20.80	9.36	21.7	-48.6	-1807.0
	10	-13.33	5.18	2.92	497.2	416.9	151.3
SLE Frequenti -	15	73.90	117.59	0.35	319.0	259.0	-2238.9
	24	0.00	-0.00	0.00	0.0	0.0	-0.0
	115	26.32	-37.95	-7.13	1712.1	288.5	1210.8
	110	-13.91	-30.64	-3.67	656.0	91.0	755.5
	22	-76.75	-19.52	7.37	-3.8	-48.1	-1843.4
	10	-12.60	0.04	2.47	388.8	343.3	156.3
SLE Frequenti +	15	75.36	120.84	0.48	336.0	269.4	-2202.1
	24	0.00	-0.00	0.00	0.0	0.0	-0.0
	115	27.90	-35.92	-6.76	1808.4	306.4	1289.6
	110	-12.72	-28.92	-3.45	693.0	96.5	783.6
	22	-75.26	-18.79	7.78	4.0	-35.4	-1788.9
	10	-12.13	1.93	2.54	408.9	357.0	203.9
SLE Quasi Permanenti -	15	73.90	117.59	0.38	319.0	259.0	-2202.1
	24	0.00	-0.00	0.00	0.0	0.0	-0.0
	115	26.32	-35.92	-6.76	1712.1	288.9	1211.4
	110	-12.83	-28.98	-3.47	657.2	91.0	755.5
	22	-75.26	-18.79	7.38	-1.6	-40.7	-1804.1

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	10	-12.13	0.76	2.47	388.8	343.3	184.9
SLE Quasi Permanenti +	15	73.90	117.59	0.38	319.0	259.0	-2202.1
	24	0.00	-0.00	0.00	0.0	0.0	-0.0
	115	26.32	-35.92	-6.76	1712.1	288.9	1211.4
	110	-12.83	-28.98	-3.47	657.2	91.0	755.5
	22	-75.26	-18.79	7.38	-1.6	-40.7	-1804.1
	10	-12.13	0.76	2.47	388.8	343.3	184.9
SLD -	15	42.47	42.85	-1.47	174.2	139.6	-2469.5
	24	-0.00	-0.00	-0.00	-0.0	-0.0	-0.0
	115	19.90	-37.31	-8.04	1572.4	276.9	1034.2
	110	-25.16	-53.04	-4.00	499.0	61.3	727.9
	22	-89.59	-74.74	6.89	-138.3	-136.3	-2232.8
	10	-14.65	-5.92	1.67	228.0	263.9	-490.6
SLD +	15	105.33	192.34	2.23	463.8	378.4	-1934.6
	24	0.00	0.00	0.00	0.0	0.0	-0.0
	115	32.75	-34.53	-5.49	1851.7	300.9	1388.5
	110	-0.50	-4.93	-2.94	815.3	120.7	783.2
	22	-60.93	37.17	7.88	135.2	55.0	-1375.4
	10	-9.62	7.45	3.27	549.5	422.6	860.5

Sollecitazioni nei setti

Convenzioni adottate

L'elemento parete viene individuato tramite il numero dei due nodi a numerazione più bassa cui fa capo l'elemento. La numerazione dei nodi e le convenzioni sulle sollecitazioni agenti nel setto sono le seguenti:



Dove:

F_x, F_y, F_z
forze, agenti nel generico nodo, in direzione degli assi locali **x**, **y**, **z**.

M_x, M_y, M_z
momenti agenti nel generico nodo ed aventi asse vettore concorde con gli assi locali **x**, **y**, **z**.

Setto nodi	Combinazione	Azioni via equiibrio					Azioni via tensioni	
		Nel Piano			FuoriPiano		Nel Piano	
		$N_{Base,Em}$ $N_{Top,Em}$ [kN]	$T_{Base,Em}$ $T_{Top,Em}$ [kN]	$M_{Base,Em}$ $M_{Top,Em}$ [kgm]	$T_{Base,Ef}$ $T_{Top,Ef}$ [kN]	$M_{Base,Ef}$ $M_{Top,Ef}$ [kgm]	$N_{Base,\sigma m}$ $N_{Top,\sigma m}$ [kN]	$M_{Base,\sigma m}$ $M_{Top,\sigma m}$ [kgm]
1 101 102 2	SLU Statiche -	30.44	41.03	-10132.7	-22.23	-3216.3	27.08	-3146.5

		-2.30	-64.53	-10728.0	1.00	-0.0	0.00	0.0
	SLU Statiche +	114.16	62.47	-7991.9	-18.05	-2546.5	100.07	-2698.5
		-0.97	-43.16	-6082.0	9.25	-0.0	0.00	0.0
	SLV -	-33.04	9.25	-11637.0	-21.22	-2950.6	-33.72	-6556.6
		-54.14	-93.72	-14008.2	0.40	-0.0	0.00	0.0
	SLV +	201.90	68.77	-1675.0	-8.43	-1312.9	180.95	2492.3
		49.89	16.58	1320.9	9.08	-0.0	0.00	0.0
	SLE Rare -	83.54	42.09	-6997.5	-15.22	-2211.5	73.73	-1987.7
		-1.56	-45.03	-7591.0	5.74	-0.0	0.00	0.0
	SLE Rare +	84.69	43.76	-6959.4	-14.86	-2188.6	74.48	-1769.3
		-0.65	-42.46	-7037.9	6.93	-0.0	0.00	0.0
	SLE Frequenti -	83.97	39.01	-6826.0	-15.20	-2183.0	73.41	-2119.1
		-2.27	-39.60	-6564.9	4.64	-0.0	0.00	0.0
	SLE Frequenti +	85.13	39.72	-6648.7	-14.68	-2122.6	74.18	-1944.8
		-1.78	-38.57	-6343.7	5.22	-0.0	0.00	0.0
	SLE Quasi Permanenti -	84.43	39.01	-6656.0	-14.82	-2131.7	73.62	-2032.1
		-2.13	-38.57	-6343.7	4.74	-0.0	0.00	0.0
	SLE Quasi Permanenti +	84.43	39.01	-6656.0	-14.82	-2131.7	73.62	-2032.1
		-2.13	-38.57	-6343.7	4.74	-0.0	0.00	0.0
	SLD -	34.56	26.39	-8792.6	-17.55	-2480.6	28.04	-3953.4
		-24.21	-61.95	-9592.1	2.90	-0.0	0.00	0.0
	SLD +	134.30	51.63	-4519.4	-12.10	-1782.9	119.19	-110.9
		19.95	-15.19	-3095.2	6.58	-0.0	0.00	0.0
2 102 103 3	SLU Statiche -	-29.52	18.29	-3153.7	-16.58	-3372.1	-35.89	-141.9
		-55.31	-37.40	-4389.0	11.84	-0.0	0.00	0.0
	SLU Statiche +	76.37	27.61	-2306.7	-6.56	-1678.2	59.60	113.3
		-9.73	-27.89	-3061.0	26.56	-0.0	0.00	0.0
	SLV -	13.00	-27.62	-7274.3	-11.42	-2516.5	-6.56	-518.4
		-48.30	-75.16	-8604.3	14.39	-0.0	0.00	0.0
	SLV +	102.05	58.87	3746.8	-7.19	-1388.2	99.21	689.7
		-16.22	28.17	3105.9	16.72	-0.0	0.00	0.0
	SLE Rare -	58.62	17.66	-2176.9	-11.99	-2408.3	46.82	89.2
		-41.32	-25.89	-3058.4	17.40	-0.0	0.00	0.0
	SLE Rare +	61.66	19.26	-2001.3	-10.65	-2192.7	49.44	101.4
		-36.46	-25.21	-2958.6	19.11	-0.0	0.00	0.0
	SLE Frequenti -	56.55	15.62	-1834.0	-9.84	-2038.6	45.26	81.4
		-34.21	-24.02	-2804.0	15.55	-0.0	0.00	0.0
	SLE Frequenti +	58.74	16.26	-1763.8	-9.30	-1952.3	47.38	90.6
		-31.93	-23.50	-2749.2	16.24	-0.0	0.00	0.0
	SLE Quasi Permanenti -	57.52	15.62	-1763.8	-9.30	-1952.3	46.33	85.7
		-32.26	-23.50	-2749.2	15.55	-0.0	0.00	0.0
	SLE Quasi Permanenti +	57.52	15.62	-1763.8	-9.30	-1952.3	46.33	85.7
		-32.26	-23.50	-2749.2	15.55	-0.0	0.00	0.0
	SLD -	38.64	-2.80	-4112.2	-10.20	-2191.4	23.90	-173.2
		-39.07	-45.60	-5254.1	15.06	-0.0	0.00	0.0
	SLD +	76.41	34.04	584.6	-8.41	-1713.2	68.76	344.6
		-25.46	-1.39	-244.3	16.05	-0.0	0.00	0.0
3 103 104 4	SLU Statiche -	-29.52	-27.61	2306.7	-16.58	-3372.1	-35.89	-113.3
		-55.31	27.89	3061.0	11.84	-0.0	0.00	0.0
	SLU Statiche +	76.37	-18.29	3153.7	-6.56	-1678.2	59.60	141.9
		-9.73	37.40	4389.0	26.56	-0.0	0.00	0.0
	SLV -	13.00	-58.87	-3746.8	-11.42	-2516.5	-6.56	-689.7
		-48.30	-28.17	-3105.9	14.39	-0.0	0.00	0.0
	SLV +	102.05	27.62	7274.3	-7.19	-1388.2	99.21	518.4
		-16.22	75.16	8604.3	16.72	-0.0	0.00	0.0
	SLE Rare -	58.62	-19.26	2001.3	-11.99	-2408.3	46.82	-101.4
		-41.32	25.21	2958.6	17.40	-0.0	0.00	0.0
	SLE Rare +	61.66	-17.66	2176.9	-10.65	-2192.7	49.44	-89.2

		-36.46	25.89	3058.4	19.11	-0.0	0.00	0.0
	SLE Frequenti -	56.55	-16.26	1763.8	-9.84	-2038.6	45.26	-90.6
		-34.21	23.50	2749.2	15.55	-0.0	0.00	0.0
	SLE Frequenti +	58.74	-15.62	1834.0	-9.30	-1952.3	47.38	-81.4
		-31.93	24.02	2804.0	16.24	-0.0	0.00	0.0
	SLE Quasi Permanenti -	57.52	-15.62	1763.8	-9.30	-1952.3	46.33	-85.7
		-32.26	23.50	2749.2	15.55	-0.0	0.00	0.0
	SLE Quasi Permanenti +	57.52	-15.62	1763.8	-9.30	-1952.3	46.33	-85.7
		-32.26	23.50	2749.2	15.55	-0.0	0.00	0.0
	SLD -	38.64	-34.04	-584.6	-10.20	-2191.4	23.90	-344.6
		-39.07	1.39	244.3	15.06	-0.0	0.00	0.0
	SLD +	76.41	2.80	4112.2	-8.41	-1713.2	68.76	173.2
		-25.46	45.60	5254.1	16.05	-0.0	0.00	0.0
4 104 105 5	SLU Statiche -	30.44	-62.47	7991.9	-22.23	-3216.3	27.08	2698.5
		-2.30	43.16	6082.0	1.00	-0.0	0.00	0.0
	SLU Statiche +	114.16	-41.03	10132.7	-18.05	-2546.5	100.07	3146.5
		-0.97	64.53	10728.0	9.25	-0.0	0.00	0.0
	SLV -	-33.04	-68.77	1675.0	-21.22	-2950.6	-33.72	-2492.3
		-54.14	-16.57	-1320.9	0.40	-0.0	0.00	0.0
	SLV +	201.90	-9.25	11637.1	-8.43	-1312.9	180.95	6556.6
		49.89	93.72	14008.2	9.08	-0.0	0.00	0.0
	SLE Rare -	83.54	-43.76	6959.4	-15.22	-2211.5	73.73	1769.3
		-1.56	42.46	7037.9	5.74	-0.0	0.00	0.0
	SLE Rare +	84.69	-42.09	6997.5	-14.86	-2188.6	74.48	1987.7
		-0.65	45.03	7591.0	6.93	-0.0	0.00	0.0
	SLE Frequenti -	83.97	-39.72	6648.7	-15.20	-2183.0	73.41	1944.8
		-2.27	38.57	6343.7	4.64	-0.0	0.00	0.0
	SLE Frequenti +	85.13	-39.01	6826.1	-14.68	-2122.6	74.18	2119.1
		-1.78	39.60	6564.9	5.22	-0.0	0.00	0.0
	SLE Quasi Permanenti -	84.43	-39.01	6656.0	-14.82	-2131.7	73.62	2032.1
		-2.13	38.57	6343.7	4.74	-0.0	0.00	0.0
	SLE Quasi Permanenti +	84.43	-39.01	6656.0	-14.82	-2131.7	73.62	2032.1
		-2.13	38.57	6343.7	4.74	-0.0	0.00	0.0
	SLD -	34.56	-51.63	4519.4	-17.55	-2480.6	28.04	110.9
		-24.21	15.19	3095.2	2.90	-0.0	0.00	0.0
	SLD +	134.30	-26.39	8792.6	-12.10	-1782.9	119.19	3953.4
		19.95	61.95	9592.1	6.58	-0.0	0.00	0.0
6 106 101 1	SLU Statiche -	8.25	-58.60	5292.9	-6.63	-989.9	-3.62	1396.9
		-16.84	-58.75	-5452.3	2.21	-0.0	0.00	0.0
	SLU Statiche +	53.52	-33.48	8254.3	-5.93	-934.0	34.84	1565.1
		-11.78	-25.18	-2366.5	9.11	-0.0	0.00	0.0
	SLV -	-20.17	-84.06	-2162.6	-9.53	-1415.6	-45.58	-1104.5
		-19.83	-115.19	-11706.4	-5.83	-0.0	0.00	0.0
	SLV +	99.24	8.78	13073.9	1.13	127.7	96.70	3250.4
		-2.92	47.62	5478.0	15.96	-0.0	0.00	0.0
	SLE Rare -	40.18	-41.54	5717.0	-4.22	-662.7	26.29	963.3
		-12.05	-42.31	-3922.2	5.85	-0.0	0.00	0.0
	SLE Rare +	40.54	-40.04	5801.3	-3.90	-636.7	27.15	1053.8
		-11.69	-38.13	-3526.6	6.73	-0.0	0.00	0.0
	SLE Frequenti -	39.54	-38.24	5455.7	-4.37	-666.3	25.50	1036.8
		-11.62	-35.46	-3272.5	5.02	-0.0	0.00	0.0
	SLE Frequenti +	39.77	-37.64	5544.1	-4.07	-633.5	25.90	1108.6
		-11.34	-33.79	-3114.2	5.41	-0.0	0.00	0.0
	SLE Quasi Permanenti -	39.54	-37.64	5455.7	-4.20	-643.9	25.56	1073.0
		-11.37	-33.79	-3114.2	5.06	-0.0	0.00	0.0
	SLE Quasi Permanenti +	39.54	-37.64	5455.7	-4.20	-643.9	25.56	1073.0
		-11.37	-33.79	-3114.2	5.06	-0.0	0.00	0.0
	SLD -	14.18	-57.33	2223.8	-6.47	-971.8	-4.64	148.6

		-15.00	-68.31	-6758.1	0.44	-0.0	0.00	0.0
	SLD +	64.89	-17.95	8687.6	-1.93	-316.1	55.76	1997.3
		-7.75	0.74	529.6	9.68	-0.0	0.00	0.0
10 110 105 5	SLU Statiche -	8.25	-58.60	5292.9	5.93	934.0	-3.62	1396.9
		-16.84	-58.75	-5452.3	-9.11	-0.0	0.00	0.0
	SLU Statiche +	53.52	-33.48	8254.3	6.63	989.9	34.84	1565.1
		-11.78	-25.18	-2366.5	-2.21	-0.0	0.00	0.0
	SLV -	-20.17	-84.06	-2162.6	-1.13	-127.7	-45.58	-1104.5
		-19.83	-115.19	-11706.4	-15.96	-0.0	0.00	0.0
	SLV +	99.24	8.78	13073.9	9.53	1415.6	96.70	3250.4
		-2.92	47.62	5478.0	5.83	-0.0	0.00	0.0
	SLE Rare -	40.18	-41.54	5717.0	3.90	636.7	26.29	963.3
		-12.05	-42.31	-3922.2	-6.73	-0.0	0.00	0.0
	SLE Rare +	40.54	-40.04	5801.3	4.22	662.7	27.15	1053.8
		-11.69	-38.13	-3526.6	-5.85	-0.0	0.00	0.0
	SLE Frequenti -	39.54	-38.24	5455.7	4.07	633.5	25.50	1036.8
		-11.62	-35.46	-3272.5	-5.41	-0.0	0.00	0.0
	SLE Frequenti +	39.77	-37.64	5544.1	4.37	666.3	25.90	1108.6
		-11.34	-33.79	-3114.2	-5.02	-0.0	0.00	0.0
	SLE Quasi Permanenti -	39.54	-37.64	5455.7	4.20	643.9	25.56	1073.0
		-11.37	-33.79	-3114.2	-5.06	-0.0	0.00	0.0
	SLE Quasi Permanenti +	39.54	-37.64	5455.7	4.20	643.9	25.56	1073.0
		-11.37	-33.79	-3114.2	-5.06	-0.0	0.00	0.0
	SLD -	14.18	-57.33	2223.8	1.93	316.1	-4.64	148.6
		-15.00	-68.31	-6758.1	-9.68	-0.0	0.00	0.0
	SLD +	64.89	-17.95	8687.6	6.47	971.8	55.76	1997.3
		-7.75	0.74	529.6	-0.44	-0.0	0.00	0.0
11 111 106 6	SLU Statiche -	57.73	58.09	-16845.6	-5.25	-1271.4	25.08	-5560.7
		-114.75	12.34	1951.1	7.19	-0.0	0.00	0.0
	SLU Statiche +	191.33	96.86	-9656.2	-2.66	-670.2	122.59	-2886.3
		-43.09	22.94	4404.0	18.12	-0.0	0.00	0.0
	SLV -	-73.39	-16.07	-24143.6	-5.92	-1419.6	-111.95	-7845.9
		-124.73	-30.72	-1945.7	6.06	-0.0	0.00	0.0
	SLV +	310.10	139.61	2876.6	0.22	4.2	260.88	972.5
		-5.08	57.70	6902.5	14.41	-0.0	0.00	0.0
	SLE Rare -	129.47	65.91	-11932.5	-3.74	-902.3	82.49	-3965.1
		-83.21	15.00	2824.9	11.67	-0.0	0.00	0.0
	SLE Rare +	140.51	68.39	-11410.3	-3.31	-809.4	91.14	-3730.8
		-74.00	16.26	3159.3	13.10	-0.0	0.00	0.0
	SLE Frequenti -	118.36	61.77	-10842.4	-3.03	-744.9	74.15	-3530.4
		-68.59	13.49	2478.4	10.23	-0.0	0.00	0.0
	SLE Frequenti +	122.77	62.76	-10633.5	-2.85	-707.7	77.93	-3436.7
		-64.85	14.00	2612.1	10.81	-0.0	0.00	0.0
	SLE Quasi Permanenti -	118.36	61.77	-10633.5	-2.85	-707.7	74.47	-3436.7
		-64.90	13.49	2478.4	10.23	-0.0	0.00	0.0
	SLE Quasi Permanenti +	118.36	61.77	-10633.5	-2.85	-707.7	74.47	-3436.7
		-64.90	13.49	2478.4	10.23	-0.0	0.00	0.0
	SLD -	37.03	28.76	-16363.3	-4.17	-1010.5	-4.59	-5307.0
		-90.28	-5.26	601.7	8.46	-0.0	0.00	0.0
	SLD +	199.68	94.78	-4903.7	-1.53	-405.0	153.53	-1566.4
		-39.53	32.25	4355.1	12.01	-0.0	0.00	0.0
15 115 110 10	SLU Statiche -	57.73	58.09	-16845.6	2.66	670.2	25.08	-5560.7
		-114.75	12.34	1951.1	-18.12	-0.0	0.00	0.0
	SLU Statiche +	191.33	96.86	-9656.2	5.25	1271.4	122.59	-2886.3
		-43.09	22.94	4404.0	-7.19	-0.0	0.00	0.0
	SLV -	-73.39	-16.07	-24143.6	-0.22	-4.2	-111.95	-7845.9
		-124.73	-30.72	-1945.7	-14.41	-0.0	0.00	0.0
	SLV +	310.10	139.61	2876.6	5.92	1419.6	260.88	972.5

	-5.08	57.70	6902.5	-6.06	-0.0	0.00	0.0
SLE Rare -	129.47	65.91	-11932.5	3.31	809.4	82.49	-3965.1
	-83.21	15.00	2824.9	-13.10	-0.0	0.00	0.0
SLE Rare +	140.51	68.39	-11410.3	3.74	902.3	91.14	-3730.8
	-74.00	16.26	3159.3	-11.67	-0.0	0.00	0.0
SLE Frequenti -	118.36	61.77	-10842.4	2.85	707.7	74.15	-3530.4
	-68.59	13.49	2478.4	-10.81	-0.0	0.00	0.0
SLE Frequenti +	122.77	62.76	-10633.5	3.03	744.9	77.93	-3436.7
	-64.85	14.00	2612.1	-10.23	-0.0	0.00	0.0
SLE Quasi Permanenti -	118.36	61.77	-10633.5	2.85	707.7	74.47	-3436.7
	-64.90	13.49	2478.4	-10.23	-0.0	0.00	0.0
SLE Quasi Permanenti +	118.36	61.77	-10633.5	2.85	707.7	74.47	-3436.7
	-64.90	13.49	2478.4	-10.23	-0.0	0.00	0.0
SLD -	37.03	28.76	-16363.3	1.53	405.0	-4.59	-5307.0
	-90.28	-5.26	601.7	-12.01	-0.0	0.00	0.0
SLD +	199.68	94.78	-4903.7	4.17	1010.5	153.53	-1566.4
	-39.53	32.25	4355.1	-8.46	-0.0	0.00	0.0

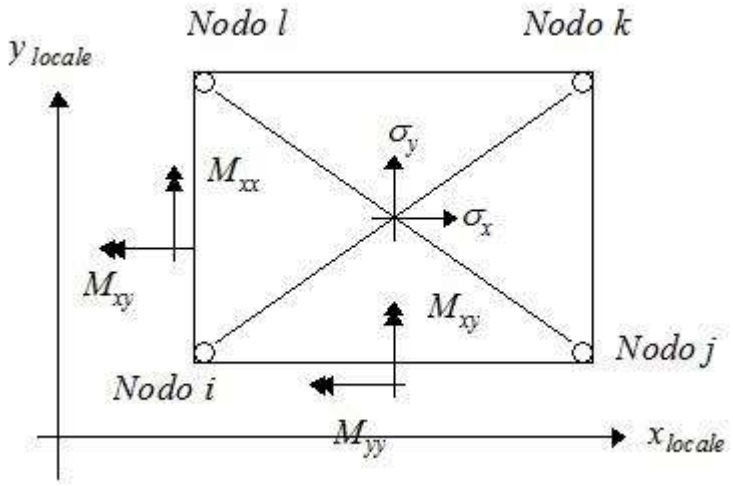
Sollecitazioni negli elementi a 4 nodi

Convenzioni adottate

Nel seguito sono riportate le sollecitazioni indotte negli elementi a 4 nodi sia come sollecitazioni in corrispondenza dei nodi che come tensioni e momenti medi valutati nel centro dell'elemento. Per una dettagliata spiegazione sui presupposti teorici, il campo di applicazione e le modalità di impiego si rimanda all'apposito capitolo del manuale teorico in dotazione al programma.

Il sistema di riferimento locale dell'elemento risulta essere cosi diposto:

- L'asse **x** locale sulla congiungente i nodi **i** e **j** da **i** verso **j**.
- L'asse **y** locale sulla congiungente i nodi **i** e **l** da **i** verso **l**.
- L'asse **z** locale e ottenuto per prodotto vettoriale fra $\mathbf{x}_{locale}$ e $\mathbf{y}_{locale}$.
- Le tensioni medie nell'elemento (σ_x, σ_y, τ_{xy}) e i momenti medi ($\mathbf{M}_x$, $\mathbf{M}_y$, $\mathbf{M}_{xy}$) sono anch'essi da intendersi diretti lungo le direzioni sopra citate.



Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
2 6	SLU Statiche -	0.2	0.5	0.0	0.2	0.5	-12.52
	SLU Statiche +	0.4	0.7	0.1	0.4	0.7	-7.38
	SLV -	0.1	0.2	-0.6	-0.4	0.3	-41.05
	SLV +	0.3	0.7	0.7	0.3	1.1	42.08

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
	SLE Rare -	0.3	0.5	0.0	0.3	0.5	-12.99
	SLE Rare +	0.3	0.5	0.0	0.3	0.5	-11.31
	SLE Frequenti -	0.2	0.4	0.0	0.2	0.4	-10.85
	SLE Frequenti +	0.3	0.4	0.0	0.2	0.4	-9.86
	SLE Quasi Permanenti -	0.2	0.4	0.0	0.2	0.4	-10.13
	SLE Quasi Permanenti +	0.2	0.4	0.0	0.2	0.4	-10.13
	SLD -	0.2	0.3	-0.2	0.0	0.4	-36.61
	SLD +	0.3	0.5	0.3	0.3	0.7	34.64
7 11	SLU Statiche -	0.2	0.1	0.2	0.3	-0.1	41.40
	SLU Statiche +	0.3	0.3	0.4	0.7	-0.0	42.19
	SLV -	0.2	0.0	-0.6	-0.3	-0.9	-44.75
	SLV +	0.3	0.3	1.0	1.1	0.8	44.90
	SLE Rare -	0.2	0.2	0.2	0.4	-0.1	41.86
	SLE Rare +	0.2	0.2	0.3	0.5	-0.0	42.21
	SLE Frequenti -	0.2	0.2	0.2	0.4	-0.0	41.50
	SLE Frequenti +	0.2	0.2	0.2	0.4	-0.0	41.71
	SLE Quasi Permanenti -	0.2	0.2	0.2	0.4	-0.0	41.54
	SLE Quasi Permanenti +	0.2	0.2	0.2	0.4	-0.0	41.54
	SLD -	0.2	0.1	-0.1	0.1	-0.4	-41.02
	SLD +	0.2	0.2	0.6	0.7	0.3	44.92
3 7	SLU Statiche -	0.0	0.6	0.1	-0.0	0.6	-12.54
	SLU Statiche +	0.1	0.9	0.2	0.1	1.0	-6.72
	SLV -	-0.1	-0.0	-0.2	-0.3	0.0	-26.84
	SLV +	0.3	1.2	0.4	0.2	1.4	38.38
	SLE Rare -	0.1	0.6	0.1	0.0	0.7	-13.03
	SLE Rare +	0.1	0.7	0.1	0.1	0.7	-12.26
	SLE Frequenti -	0.1	0.6	0.1	0.0	0.6	-12.17
	SLE Frequenti +	0.1	0.6	0.1	0.0	0.6	-11.62
	SLE Quasi Permanenti -	0.1	0.6	0.1	0.0	0.6	-11.82
	SLE Quasi Permanenti +	0.1	0.6	0.1	0.0	0.6	-11.82
	SLD -	-0.0	0.3	-0.0	-0.0	0.3	-20.00
	SLD +	0.1	0.8	0.3	0.1	0.9	4.90
8 12	SLU Statiche -	-0.1	-0.1	0.0	-0.2	-0.0	-43.71
	SLU Statiche +	-0.1	-0.0	0.1	-0.1	0.1	-31.56
	SLV -	-0.2	-0.5	-0.3	-0.2	-0.8	-38.14
	SLV +	0.1	0.4	0.4	0.3	0.6	42.48
	SLE Rare -	-0.1	-0.0	0.1	-0.1	0.0	-44.12
	SLE Rare +	-0.1	-0.0	0.1	-0.1	0.0	-42.70
	SLE Frequenti -	-0.1	-0.0	0.1	-0.1	0.0	-42.19
	SLE Frequenti +	-0.1	-0.0	0.1	-0.1	0.0	-41.10
	SLE Quasi Permanenti -	-0.1	-0.0	0.1	-0.1	0.0	-41.40
	SLE Quasi Permanenti +	-0.1	-0.0	0.1	-0.1	0.0	-41.40
	SLD -	-0.1	-0.2	-0.1	-0.1	-0.4	-39.12
	SLD +	0.0	0.2	0.2	0.1	0.2	43.77
4 8	SLU Statiche -	0.0	0.6	-0.2	-0.0	0.6	6.72
	SLU Statiche +	0.1	0.9	-0.1	0.1	1.0	12.54
	SLV -	-0.1	-0.0	-0.4	-0.3	0.0	-38.38
	SLV +	0.3	1.2	0.2	0.2	1.4	26.84
	SLE Rare -	0.1	0.6	-0.1	0.0	0.7	12.26
	SLE Rare +	0.1	0.7	-0.1	0.1	0.7	13.03
	SLE Frequenti -	0.1	0.6	-0.1	0.0	0.6	11.62

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
	SLE Frequenti +	0.1	0.6	-0.1	0.0	0.6	12.17
	SLE Quasi Permanenti -	0.1	0.6	-0.1	0.0	0.6	11.82
	SLE Quasi Permanenti +	0.1	0.6	-0.1	0.0	0.6	11.82
	SLD -	-0.0	0.3	-0.3	-0.0	0.3	-4.90
	SLD +	0.1	0.8	0.0	0.1	0.9	20.00
9 13	SLU Statiche -	-0.1	-0.1	-0.1	-0.2	-0.0	31.56
	SLU Statiche +	-0.1	-0.0	-0.0	-0.1	0.1	43.71
	SLV -	-0.2	-0.5	-0.4	-0.2	-0.8	-42.48
	SLV +	0.1	0.4	0.3	0.3	0.6	38.14
	SLE Rare -	-0.1	-0.0	-0.1	-0.1	0.0	42.70
	SLE Rare +	-0.1	-0.0	-0.1	-0.1	0.0	44.12
	SLE Frequenti -	-0.1	-0.0	-0.1	-0.1	0.0	41.10
	SLE Frequenti +	-0.1	-0.0	-0.1	-0.1	0.0	42.19
	SLE Quasi Permanenti -	-0.1	-0.0	-0.1	-0.1	0.0	41.40
	SLE Quasi Permanenti +	-0.1	-0.0	-0.1	-0.1	0.0	41.40
	SLD -	-0.1	-0.2	-0.2	-0.1	-0.4	-43.77
	SLD +	0.0	0.2	0.1	0.1	0.2	39.12
10 4	SLU Statiche -	0.5	0.2	0.0	0.5	0.2	7.38
	SLU Statiche +	0.7	0.4	0.1	0.7	0.4	12.52
	SLV -	0.2	0.1	-0.6	0.3	-0.4	-42.08
	SLV +	0.7	0.3	0.7	1.1	0.3	41.05
	SLE Rare -	0.5	0.3	0.0	0.5	0.3	11.31
	SLE Rare +	0.5	0.3	0.0	0.5	0.3	12.99
	SLE Frequenti -	0.4	0.2	0.0	0.4	0.2	9.86
	SLE Frequenti +	0.4	0.3	0.0	0.4	0.2	10.85
	SLE Quasi Permanenti -	0.4	0.2	0.0	0.4	0.2	10.13
	SLE Quasi Permanenti +	0.4	0.2	0.0	0.4	0.2	10.13
	SLD -	0.3	0.2	-0.2	0.4	0.0	-34.64
	SLD +	0.5	0.3	0.3	0.7	0.3	36.61
10 14	SLU Statiche -	0.2	0.1	-0.4	0.3	-0.1	-42.19
	SLU Statiche +	0.3	0.3	-0.2	0.7	-0.0	-41.40
	SLV -	0.2	0.0	-1.0	-0.3	-0.9	-44.90
	SLV +	0.3	0.3	0.6	1.1	0.8	44.75
	SLE Rare -	0.2	0.2	-0.3	0.4	-0.1	-42.21
	SLE Rare +	0.2	0.2	-0.2	0.5	-0.0	-41.86
	SLE Frequenti -	0.2	0.2	-0.2	0.4	-0.0	-41.71
	SLE Frequenti +	0.2	0.2	-0.2	0.4	-0.0	-41.50
	SLE Quasi Permanenti -	0.2	0.2	-0.2	0.4	-0.0	-41.54
	SLE Quasi Permanenti +	0.2	0.2	-0.2	0.4	-0.0	-41.54
	SLD -	0.2	0.1	-0.6	0.1	-0.4	-44.92
	SLD +	0.2	0.2	0.1	0.7	0.3	41.02
110 104	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
104 108	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
102 106	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
103 107	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
110 114	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
109 113	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
107 111	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
108 112	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
115 119	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
114 118	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
112 116	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
113 117	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00

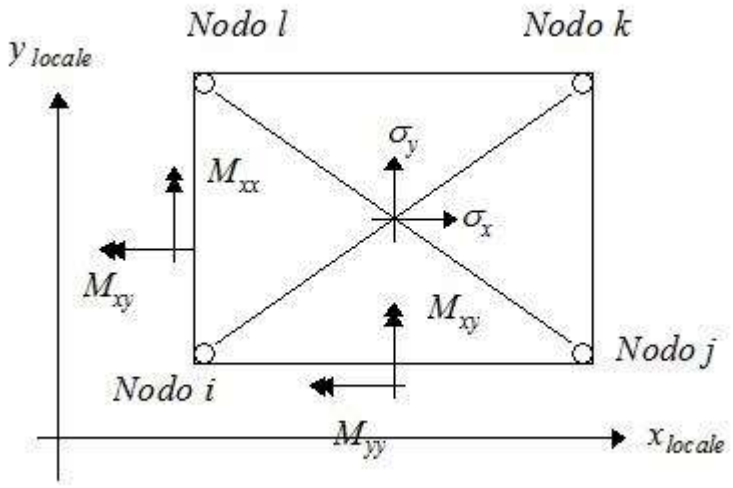
Sollecitazioni negli elementi a 4 nodi

Convenzioni adottate

Nel seguito sono riportate le sollecitazioni indotte negli elementi a 4 nodi sia come sollecitazioni in corrispondenza dei nodi che come tensioni e momenti medi valutati nel centro dell'elemento. Per una dettagliata spiegazione sui presupposti teorici, il campo di applicazione e le modalità di impiego si rimanda all'apposito capitolo del manuale teorico in dotazione al programma.

Il sistema di riferimento locale dell'elemento risulta essere cosi diposto:

- L'asse **x** locale sulla congiungente i nodi **i** e **j** da **i** verso **j**.
- L'asse **y** locale sulla congiungente i nodi **i** e **l** da **i** verso **l**.
- L'asse **z** locale e ottenuto per prodotto vettoriale fra $\mathbf{x}_{locale}$ e $\mathbf{y}_{locale}$.
- Le tensioni medie nell'elemento (σ_x, σ_y, τ_{xy}) e i momenti medi ($\mathbf{M}_x$, $\mathbf{M}_y$, $\mathbf{M}_{xy}$) sono anch'essi da intendersi diretti lungo le direzioni sopra citate.



Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
2 6	SLU Statiche -	-455.45	-76.31	-152.44	-4514.2	928.2	-455.86	-75.90	-1.87
	SLU Statiche +	-363.55	-69.10	12.49	-3317.7	1087.6	-429.26	-9.90	23.32
	SLV -	-532.55	-76.99	-336.02	-3325.0	-331.1	-673.59	-321.98	-44.92
	SLV +	-70.56	-25.86	337.43	-2480.4	1656.8	179.54	251.85	44.96
	SLE Rare -	-312.82	-50.61	7.50	-3128.7	717.6	-313.03	-50.40	-5.19
	SLE Rare +	-309.40	-45.81	24.13	-3073.6	739.4	-311.59	-43.62	-1.64
	SLE Frequenti -	-308.89	-53.42	-4.21	-2960.7	662.9	-308.96	-53.35	-1.68
	SLE Frequenti +	-300.19	-49.50	7.36	-2902.7	679.3	-300.40	-49.29	0.94
	SLE Quasi Permanenti -	-301.55	-51.42	0.71	-2902.7	662.9	-301.55	-51.42	-0.16
	SLE Quasi Permanenti +	-301.55	-51.42	0.71	-2902.7	662.9	-301.55	-51.42	-0.16
	SLD -	-399.44	-62.31	-142.21	-3081.7	241.4	-435.82	-59.55	-20.31
	SLD +	-203.66	-40.54	143.62	-2723.7	1084.4	-234.31	26.69	29.92
7 11	SLU Statiche -	-613.85	-77.28	92.62	3255.6	-472.1	-692.21	-57.62	-19.10
	SLU Statiche +	-493.96	-38.61	226.30	4388.2	724.7	-513.62	39.75	-11.98
	SLV -	-497.27	-135.82	-144.11	1202.1	-3606.5	-638.38	-125.75	-34.77
	SLV +	-286.22	75.22	428.42	4521.8	3073.9	-316.89	294.88	17.78
	SLE Rare -	-421.13	-28.47	153.65	3010.6	-430.3	-479.84	25.12	-19.71
	SLE Rare +	-415.40	-22.26	163.91	3039.9	-320.7	-468.99	36.45	-19.23
	SLE Frequenti -	-400.71	-32.49	142.16	2861.9	-310.1	-449.58	16.39	-19.31
	SLE Frequenti +	-391.75	-27.81	146.26	2921.6	-238.7	-440.96	23.43	-18.90
	SLE Quasi Permanenti -	-391.75	-30.30	142.16	2861.9	-266.3	-440.96	18.91	-19.09
	SLE Quasi Permanenti +	-391.75	-30.30	142.16	2861.9	-266.3	-440.96	18.91	-19.09
	SLD -	-436.51	-75.10	20.68	2158.5	-1684.6	-517.92	-53.55	-28.45
	SLD +	-346.99	14.50	263.63	3565.4	1152.1	-384.17	124.30	-3.11
3 7	SLU Statiche -	-776.13	-146.04	-63.88	-5041.3	-337.7	-776.14	-138.06	-0.78
	SLU Statiche +	-649.10	-117.53	8.83	-4628.5	-258.8	-657.09	-117.41	7.12
	SLV -	-877.28	-107.34	-218.67	-4198.7	-701.3	-909.76	-81.69	-20.46
	SLV +	-144.82	-50.69	223.01	-2250.8	376.9	-184.33	82.20	40.90
	SLE Rare -	-529.75	-80.85	5.40	-3402.6	-171.0	-529.81	-80.78	-1.65
	SLE Rare +	-521.82	-75.75	12.87	-3396.1	-164.7	-522.19	-75.37	-0.69
	SLE Frequenti -	-524.36	-82.48	0.05	-3316.9	-169.8	-524.36	-82.48	-0.69
	SLE Frequenti +	-507.87	-76.98	5.16	-3222.2	-159.6	-507.93	-76.91	-0.01
	SLE Quasi Permanenti -	-511.05	-79.02	2.17	-3224.8	-162.2	-511.06	-79.01	-0.29
	SLE Quasi Permanenti +	-511.05	-79.02	2.17	-3224.8	-162.2	-511.06	-79.01	-0.29
	SLD -	-666.22	-91.16	-91.71	-3637.5	-391.5	-672.14	-82.37	-10.48

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLD +	-355.87	-66.88	96.05	-2812.0	67.1	-365.90	-50.16	16.82
8 12	SLU Statiche -	-881.30	-198.57	18.38	3984.6	-128.2	-885.46	-198.05	-4.51
	SLU Statiche +	-851.24	-83.99	62.52	4750.6	-70.7	-851.76	-79.06	-1.61
	SLV -	-872.69	-304.77	-138.67	2211.4	-1004.0	-881.96	-272.05	-21.54
	SLV +	-250.53	188.16	216.33	3971.8	918.9	-289.02	273.54	15.62
	SLE Rare -	-590.00	-57.01	42.31	3243.6	-45.2	-593.34	-53.67	-4.84
	SLE Rare +	-583.49	-45.02	45.94	3245.5	-41.5	-587.39	-41.12	-4.51
	SLE Frequenti -	-579.06	-63.65	38.76	3090.8	-45.7	-581.96	-60.75	-4.53
	SLE Frequenti +	-559.01	-53.51	40.28	3169.5	-41.0	-562.19	-50.32	-4.28
	SLE Quasi Permanenti -	-561.61	-58.30	38.83	3091.6	-42.5	-564.59	-55.32	-4.39
	SLE Quasi Permanenti +	-561.61	-58.30	38.83	3091.6	-42.5	-564.59	-55.32	-4.39
	SLD -	-693.42	-162.80	-36.62	2718.6	-454.7	-693.51	-160.24	-12.59
	SLD +	-429.79	46.20	114.28	3464.6	369.7	-444.54	71.72	4.01
4 8	SLU Statiche -	-776.13	-146.04	-8.83	-5041.3	258.8	-776.14	-138.06	-7.12
	SLU Statiche +	-649.10	-117.53	63.88	-4628.5	337.7	-657.09	-117.41	0.78
	SLV -	-877.28	-107.34	-223.01	-4198.7	-376.9	-909.76	-81.69	-40.90
	SLV +	-144.82	-50.69	218.67	-2250.8	701.3	-184.33	82.20	20.46
	SLE Rare -	-529.75	-80.85	-12.87	-3402.6	164.7	-529.81	-80.78	0.69
	SLE Rare +	-521.82	-75.75	-5.40	-3396.1	171.0	-522.19	-75.37	1.65
	SLE Frequenti -	-524.36	-82.48	-5.16	-3316.9	159.6	-524.36	-82.48	0.01
	SLE Frequenti +	-507.87	-76.98	-0.05	-3222.2	169.8	-507.93	-76.91	0.69
	SLE Quasi Permanenti -	-511.05	-79.02	-2.17	-3224.8	162.2	-511.06	-79.01	0.29
	SLE Quasi Permanenti +	-511.05	-79.02	-2.17	-3224.8	162.2	-511.06	-79.01	0.29
	SLD -	-666.22	-91.16	-96.05	-3637.5	-67.1	-672.14	-82.37	-16.82
	SLD +	-355.87	-66.88	91.71	-2812.0	391.5	-365.90	-50.16	10.48
9 13	SLU Statiche -	-881.30	-198.57	-62.52	3984.6	70.7	-885.46	-198.05	1.61
	SLU Statiche +	-851.24	-83.99	-18.38	4750.6	128.2	-851.76	-79.06	4.51
	SLV -	-872.69	-304.77	-216.33	2211.4	-918.9	-881.96	-272.05	-15.62
	SLV +	-250.53	188.16	138.67	3971.8	1004.0	-289.02	273.54	21.54
	SLE Rare -	-590.00	-57.01	-45.94	3243.6	41.5	-593.34	-53.67	4.51
	SLE Rare +	-583.49	-45.02	-42.31	3245.5	45.2	-587.39	-41.12	4.84
	SLE Frequenti -	-579.06	-63.65	-40.28	3090.8	41.0	-581.96	-60.75	4.28
	SLE Frequenti +	-559.01	-53.51	-38.76	3169.5	45.7	-562.19	-50.32	4.53
	SLE Quasi Permanenti -	-561.61	-58.30	-38.83	3091.6	42.5	-564.59	-55.32	4.39
	SLE Quasi Permanenti +	-561.61	-58.30	-38.83	3091.6	42.5	-564.59	-55.32	4.39
	SLD -	-693.42	-162.80	-114.28	2718.6	-369.7	-693.51	-160.24	-4.01
	SLD +	-429.79	46.20	36.62	3464.6	454.7	-444.54	71.72	12.59
10 4	SLU Statiche -	-76.31	-455.45	-152.44	-1087.6	3317.7	-75.90	-455.86	-23.32
	SLU Statiche +	-69.10	-363.55	12.49	-928.2	4514.2	-9.90	-429.26	1.87
	SLV -	-76.99	-532.55	-336.02	-1656.8	2480.4	-321.98	-673.59	-44.96
	SLV +	-25.86	-70.56	337.43	331.1	3325.0	251.85	179.54	44.92
	SLE Rare -	-50.61	-312.82	7.50	-739.4	3073.6	-50.40	-313.03	1.64
	SLE Rare +	-45.81	-309.40	24.13	-717.6	3128.7	-43.62	-311.59	5.19
	SLE Frequenti -	-53.42	-308.89	-4.21	-679.3	2902.7	-53.35	-308.96	-0.94
	SLE Frequenti +	-49.50	-300.19	7.36	-662.9	2960.7	-49.29	-300.40	1.68
	SLE Quasi Permanenti -	-51.42	-301.55	0.71	-662.9	2902.7	-51.42	-301.55	0.16
	SLE Quasi Permanenti +	-51.42	-301.55	0.71	-662.9	2902.7	-51.42	-301.55	0.16
	SLD -	-62.31	-399.44	-142.21	-1084.4	2723.7	-59.55	-435.82	-29.92
	SLD +	-40.54	-203.66	143.62	-241.4	3081.7	26.69	-234.31	20.31
10 14	SLU Statiche -	-613.85	-77.28	-226.30	3255.6	-724.7	-692.21	-57.62	11.98

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLU Statiche +	-493.96	-38.61	-92.62	4388.2	472.1	-513.62	39.75	19.10
	SLV -	-497.27	-135.82	-428.42	1202.1	-3073.9	-638.38	-125.75	-17.78
	SLV +	-286.22	75.22	144.11	4521.8	3606.5	-316.89	294.88	34.77
	SLE Rare -	-421.13	-28.47	-163.91	3010.6	320.7	-479.84	25.12	19.23
	SLE Rare +	-415.40	-22.26	-153.65	3039.9	430.3	-468.99	36.45	19.71
	SLE Frequenti -	-400.71	-32.49	-146.26	2861.9	238.7	-449.58	16.39	18.90
	SLE Frequenti +	-391.75	-27.81	-142.16	2921.6	310.1	-440.96	23.43	19.31
	SLE Quasi Permanenti -	-391.75	-30.30	-142.16	2861.9	266.3	-440.96	18.91	19.09
	SLE Quasi Permanenti +	-391.75	-30.30	-142.16	2861.9	266.3	-440.96	18.91	19.09
	SLD -	-436.51	-75.10	-263.63	2158.5	-1152.1	-517.92	-53.55	3.11
	SLD +	-346.99	14.50	-20.68	3565.4	1684.6	-384.17	124.30	28.45
110 104	SLU Statiche -	74.81	254.01	-899.31	-226.8	-29.3	-482.50	513.62	37.57
	SLU Statiche +	228.71	654.67	-337.52	-64.0	83.2	-184.81	1365.88	38.36
	SLV -	96.09	353.90	-558.09	-582.2	-340.5	-309.32	720.64	36.66
	SLV +	160.45	378.14	-464.77	292.2	477.0	-246.78	825.57	40.00
	SLE Rare -	147.11	419.48	-652.37	-172.2	67.4	-349.93	880.59	38.39
	SLE Rare +	166.91	473.53	-581.56	-156.9	77.1	-314.00	990.36	38.45
	SLE Frequenti -	127.79	365.73	-539.76	-149.7	67.4	-292.29	771.52	38.44
	SLE Frequenti +	136.19	387.64	-511.10	-145.0	68.6	-277.92	816.12	38.46
	SLE Quasi Permanenti -	128.27	366.02	-511.43	-145.0	68.2	-277.92	772.21	38.46
	SLE Quasi Permanenti +	128.27	366.02	-511.43	-145.0	68.2	-277.92	772.21	38.46
	SLD -	114.45	360.88	-531.45	-330.3	-105.0	-291.28	749.83	37.72
	SLD +	142.08	371.17	-491.41	40.3	241.5	-264.58	794.92	39.15
104 108	SLU Statiche -	637.44	-200.58	206.01	-2325.5	-197.2	693.64	-376.08	15.26
	SLU Statiche +	1502.42	-61.50	574.18	-856.6	-141.8	1677.92	-117.70	17.00
	SLV -	804.65	-134.66	241.51	-1482.1	-309.7	918.84	-283.01	13.20
	SLV +	880.85	-95.62	409.47	-1261.6	100.5	972.24	-155.57	20.49
	SLE Rare -	963.04	-147.02	370.91	-1692.8	-135.5	1076.97	-275.44	17.07
	SLE Rare +	1081.28	-130.66	417.41	-1533.2	-121.7	1209.70	-244.58	17.16
	SLE Frequenti -	842.75	-121.68	324.95	-1435.7	-110.1	942.88	-227.62	17.07
	SLE Frequenti +	890.04	-114.72	344.09	-1371.9	-104.6	995.97	-214.50	17.11
	SLE Quasi Permanenti -	842.75	-115.14	325.49	-1371.9	-104.6	942.88	-215.27	17.10
	SLE Quasi Permanenti +	842.75	-115.14	325.49	-1371.9	-104.6	942.88	-215.27	17.10
	SLD -	826.58	-123.41	289.44	-1418.7	-192.1	932.06	-243.17	15.49
	SLD +	858.91	-106.86	361.53	-1325.1	-17.1	954.51	-188.83	18.62
102 106	SLU Statiche -	254.01	74.81	-899.31	-83.2	64.0	513.62	-482.50	-38.36
	SLU Statiche +	654.67	228.71	-337.52	29.3	226.8	1365.88	-184.81	-37.57
	SLV -	353.90	96.09	-558.10	-477.0	-292.2	720.64	-309.32	-40.00
	SLV +	378.14	160.45	-464.77	340.5	582.2	825.57	-246.78	-36.66
	SLE Rare -	419.48	147.11	-652.37	-77.1	156.9	880.59	-349.93	-38.45
	SLE Rare +	473.53	166.91	-581.56	-67.4	172.2	990.36	-314.00	-38.39
	SLE Frequenti -	365.73	127.79	-539.76	-68.6	145.0	771.52	-292.29	-38.46
	SLE Frequenti +	387.64	136.19	-511.10	-67.4	149.7	816.12	-277.92	-38.44
	SLE Quasi Permanenti -	366.02	128.27	-511.43	-68.2	145.0	772.21	-277.92	-38.46
	SLE Quasi Permanenti +	366.02	128.27	-511.43	-68.2	145.0	772.21	-277.92	-38.46
	SLD -	360.88	114.45	-531.45	-241.5	-40.3	749.83	-291.28	-39.15
	SLD +	371.17	142.08	-491.41	105.0	330.3	794.92	-264.58	-37.72
103 107	SLU Statiche -	637.44	-200.58	-574.18	-2325.5	141.8	693.64	-376.08	-17.00
	SLU Statiche +	1502.42	-61.50	-206.01	-856.6	197.2	1677.92	-117.70	-15.26
	SLV -	804.65	-134.66	-409.47	-1482.1	-100.5	918.84	-283.01	-20.49
	SLV +	880.85	-95.62	-241.51	-1261.6	309.7	972.24	-155.57	-13.20

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLE Rare -	963.04	-147.02	-417.41	-1692.8	121.7	1076.97	-275.44	-17.16
	SLE Rare +	1081.28	-130.66	-370.91	-1533.2	135.5	1209.70	-244.58	-17.07
	SLE Frequenti -	842.75	-121.68	-344.09	-1435.7	104.6	942.88	-227.62	-17.11
	SLE Frequenti +	890.04	-114.72	-324.95	-1371.9	110.1	995.97	-214.50	-17.07
	SLE Quasi Permanenti -	842.75	-115.14	-325.49	-1371.9	104.6	942.88	-215.27	-17.10
	SLE Quasi Permanenti +	842.75	-115.14	-325.49	-1371.9	104.6	942.88	-215.27	-17.10
	SLD -	826.58	-123.41	-361.53	-1418.7	17.1	932.06	-243.17	-18.62
	SLD +	858.91	-106.86	-289.44	-1325.1	192.1	954.51	-188.83	-15.49
110 114	SLU Statiche -	94.00	110.53	492.42	121.3	-1226.7	-1021.73	594.76	-44.52
	SLU Statiche +	170.83	314.68	1262.44	314.1	-455.1	-390.22	1507.24	-43.25
	SLV -	53.95	89.88	661.76	-5.0	-838.8	-610.99	738.06	-44.58
	SLV +	104.78	266.86	751.26	371.5	-573.0	-549.67	937.66	-41.50
	SLE Rare -	99.35	203.35	809.24	205.7	-891.1	-740.35	962.26	-43.28
	SLE Rare +	119.32	229.03	912.88	227.8	-798.2	-659.56	1088.71	-43.10
	SLE Frequenti -	79.37	178.02	706.06	183.3	-743.0	-611.68	836.47	-43.06
	SLE Frequenti +	87.35	188.64	747.97	192.1	-705.6	-579.08	887.68	-43.00
	SLE Quasi Permanenti -	79.37	178.37	706.51	183.3	-705.9	-579.38	837.11	-43.00
	SLE Quasi Permanenti +	79.37	178.37	706.51	183.3	-705.9	-579.38	837.11	-43.00
	SLD -	68.58	140.37	687.31	103.5	-762.4	-592.62	794.40	-43.66
	SLD +	90.15	216.37	725.72	263.1	-649.4	-566.47	880.10	-42.36
109 113	SLU Statiche -	-130.10	-1169.20	248.65	-851.2	326.8	123.25	-1452.24	23.97
	SLU Statiche +	15.93	-432.82	613.05	-364.4	697.5	158.64	-543.36	25.10
	SLV -	-121.01	-690.62	263.15	-521.8	317.3	-13.25	-903.21	21.80
	SLV +	-94.75	-642.69	428.94	-409.8	466.0	133.87	-765.43	28.32
	SLE Rare -	-116.42	-848.93	394.50	-611.2	446.7	81.43	-1054.18	24.88
	SLE Rare +	-99.87	-757.26	442.57	-538.7	498.9	105.38	-942.74	25.23
	SLE Frequenti -	-107.88	-703.32	346.04	-494.8	391.6	57.48	-876.56	25.37
	SLE Frequenti +	-106.36	-666.13	365.27	-465.8	412.5	66.87	-831.70	25.56
	SLE Quasi Permanenti -	-107.88	-666.66	346.04	-465.8	391.6	57.48	-832.02	25.54
	SLE Quasi Permanenti +	-107.88	-666.66	346.04	-465.8	391.6	57.48	-832.02	25.54
	SLD -	-113.46	-676.81	310.45	-489.6	359.8	26.28	-862.12	24.08
	SLD +	-102.30	-656.50	381.64	-442.0	423.5	89.71	-802.77	26.83
107 111	SLU Statiche -	94.00	110.53	-1262.44	121.3	455.1	-1021.73	594.76	43.25
	SLU Statiche +	170.83	314.68	-492.42	314.1	1226.7	-390.22	1507.24	44.52
	SLV -	53.95	89.88	-751.26	-5.0	573.0	-610.99	738.06	41.50
	SLV +	104.78	266.86	-661.76	371.5	838.8	-549.67	937.66	44.58
	SLE Rare -	99.35	203.35	-912.88	205.7	798.2	-740.35	962.26	43.10
	SLE Rare +	119.32	229.03	-809.25	227.8	891.1	-659.56	1088.71	43.28
	SLE Frequenti -	79.37	178.02	-747.97	183.3	705.6	-611.68	836.47	43.00
	SLE Frequenti +	87.35	188.64	-706.06	192.1	743.0	-579.08	887.68	43.06
	SLE Quasi Permanenti -	79.37	178.37	-706.51	183.3	705.9	-579.38	837.11	43.00
	SLE Quasi Permanenti +	79.37	178.37	-706.51	183.3	705.9	-579.38	837.11	43.00
	SLD -	68.58	140.37	-725.72	103.5	649.4	-592.62	794.40	42.36
	SLD +	90.15	216.37	-687.31	263.1	762.4	-566.47	880.10	43.66
108 112	SLU Statiche -	-130.10	-1169.20	-613.05	-851.2	-697.5	123.25	-1452.24	-25.10
	SLU Statiche +	15.93	-432.82	-248.65	-364.4	-326.8	158.64	-543.36	-23.97
	SLV -	-121.01	-690.62	-428.94	-521.8	-466.0	-13.25	-903.21	-28.32
	SLV +	-94.75	-642.69	-263.15	-409.8	-317.3	133.87	-765.43	-21.80
	SLE Rare -	-116.42	-848.93	-442.57	-611.2	-498.9	81.43	-1054.18	-25.23
	SLE Rare +	-99.87	-757.26	-394.50	-538.7	-446.7	105.38	-942.74	-24.88
	SLE Frequenti -	-107.88	-703.32	-365.27	-494.8	-412.5	57.48	-876.56	-25.56

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLE Frequenti +	-106.36	-666.13	-346.04	-465.8	-391.6	66.87	-831.70	-25.37
	SLE Quasi Permanenti -	-107.88	-666.66	-346.04	-465.8	-391.6	57.48	-832.02	-25.54
	SLE Quasi Permanenti +	-107.88	-666.66	-346.04	-465.8	-391.6	57.48	-832.02	-25.54
	SLD -	-113.46	-676.81	-381.64	-489.6	-423.5	26.28	-862.12	-26.83
	SLD +	-102.30	-656.50	-310.45	-442.0	-359.8	89.71	-802.77	-24.08
115 119	SLU Statiche -	194.25	95.10	468.63	-1198.8	-4837.6	615.92	-814.17	41.98
	SLU Statiche +	437.34	248.79	1153.39	-560.1	-1895.1	1500.30	-326.57	42.82
	SLV -	209.70	42.89	587.45	-648.9	-2872.3	719.76	-467.17	40.96
	SLV +	257.59	253.22	686.71	-592.1	-2576.3	941.99	-430.90	44.91
	SLE Rare -	273.29	164.73	733.99	-853.1	-3498.8	955.01	-587.13	42.73
	SLE Rare +	312.86	180.88	831.38	-736.8	-3110.8	1080.87	-516.98	42.93
	SLE Frequenti -	233.65	148.06	636.84	-667.0	-2879.5	829.27	-475.70	42.99
	SLE Frequenti +	249.48	154.52	676.04	-620.5	-2723.6	879.70	-447.26	43.08
	SLE Quasi Permanenti -	233.65	148.06	637.08	-620.5	-2724.3	829.37	-447.66	43.08
	SLE Quasi Permanenti +	233.65	148.06	637.08	-620.5	-2724.3	829.37	-447.66	43.08
	SLD -	223.37	102.90	615.76	-632.7	-2787.9	781.89	-455.62	42.21
	SLD +	243.93	193.21	658.40	-608.3	-2660.8	877.40	-440.26	43.90
114 118	SLU Statiche -	-352.24	-1677.45	177.33	-4.4	-2913.6	-220.31	-1809.38	16.75
	SLU Statiche +	-119.32	-643.97	438.45	219.4	-1173.8	-65.00	-698.29	17.03
	SLV -	-214.37	-976.52	173.49	163.2	-1912.1	-175.28	-1065.09	12.35
	SLV +	-207.44	-923.91	319.05	190.3	-1371.9	-88.07	-988.12	20.69
	SLE Rare -	-257.75	-1215.05	281.44	167.8	-2104.1	-162.59	-1310.21	16.74
	SLE Rare +	-234.29	-1082.25	316.47	191.7	-1873.6	-149.39	-1167.16	16.79
	SLE Frequenti -	-220.29	-1003.33	246.27	175.0	-1734.2	-141.67	-1081.96	16.81
	SLE Frequenti +	-210.87	-949.84	260.29	176.7	-1642.0	-136.28	-1024.43	16.85
	SLE Quasi Permanenti -	-210.91	-950.21	246.27	176.7	-1642.0	-136.38	-1024.74	16.84
	SLE Quasi Permanenti +	-210.91	-950.21	246.27	176.7	-1642.0	-136.38	-1024.74	16.84
	SLD -	-212.40	-961.37	215.02	170.9	-1758.1	-154.37	-1041.53	14.99
	SLD +	-209.42	-939.06	277.53	182.5	-1526.0	-116.66	-1008.63	18.57
112 116	SLU Statiche -	194.25	95.10	-1153.39	-1198.8	1895.1	615.92	-814.17	-42.82
	SLU Statiche +	437.34	248.79	-468.63	-560.1	4837.6	1500.30	-326.57	-41.98
	SLV -	209.70	42.89	-686.71	-648.9	2576.3	719.76	-467.17	-44.91
	SLV +	257.59	253.22	-587.45	-592.1	2872.3	941.99	-430.90	-40.96
	SLE Rare -	273.29	164.73	-831.38	-853.1	3110.8	955.01	-587.13	-42.93
	SLE Rare +	312.86	180.88	-733.99	-736.8	3498.8	1080.87	-516.98	-42.73
	SLE Frequenti -	233.65	148.06	-676.04	-667.0	2723.6	829.27	-475.70	-43.08
	SLE Frequenti +	249.48	154.52	-636.84	-620.5	2879.5	879.70	-447.26	-42.99
	SLE Quasi Permanenti -	233.65	148.06	-637.08	-620.5	2724.3	829.37	-447.66	-43.08
	SLE Quasi Permanenti +	233.65	148.06	-637.08	-620.5	2724.3	829.37	-447.66	-43.08
	SLD -	223.37	102.90	-658.40	-632.7	2660.8	781.89	-455.62	-43.90
	SLD +	243.93	193.21	-615.76	-608.3	2787.9	877.40	-440.26	-42.21
113 117	SLU Statiche -	-352.24	-1677.45	-438.45	-4.4	1173.8	-220.31	-1809.38	-17.03
	SLU Statiche +	-119.32	-643.97	-177.33	219.4	2913.6	-65.00	-698.29	-16.75
	SLV -	-214.37	-976.51	-319.05	163.2	1371.9	-175.28	-1065.09	-20.69
	SLV +	-207.44	-923.91	-173.49	190.3	1912.1	-88.07	-988.12	-12.35
	SLE Rare -	-257.75	-1215.05	-316.47	167.8	1873.6	-162.59	-1310.21	-16.79
	SLE Rare +	-234.29	-1082.25	-281.44	191.7	2104.1	-149.39	-1167.16	-16.74
	SLE Frequenti -	-220.29	-1003.33	-260.29	175.0	1642.0	-141.67	-1081.96	-16.85
	SLE Frequenti +	-210.87	-949.84	-246.27	176.7	1734.2	-136.28	-1024.43	-16.81
	SLE Quasi Permanenti -	-210.91	-950.21	-246.27	176.7	1642.0	-136.38	-1024.74	-16.84
	SLE Quasi Permanenti +	-210.91	-950.21	-246.27	176.7	1642.0	-136.38	-1024.74	-16.84

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLD -	-212.40	-961.37	-277.53	170.9	1526.0	-154.37	-1041.53	-18.57
	SLD +	-209.42	-939.06	-215.02	182.5	1758.1	-116.66	-1008.63	-14.99

Valutazione Effetti NON-Lineari Pd_r/Vh

$V_x\ \Theta_x = P\ d_{r,x}\ /h$

$V_y\ \Theta_y = P\ d_{r,y}\ /h$

$V\ \Theta = P\ d_r\ /h$ dove: $d_r = sqrt(d_{r,x}^2 + d_{r,y}^2)$

Controllo combinazioni 43 .. 74

Fattore di struttura 1.00

Fattore di importanza γ_i 1.00

Modalità di calcolo: spostamenti d'interpiano medi

Massimi

Interpiano Solai	Comb.	Altezza [m]	P [kN]	Direzione x				Direzione y				Direzione $U=\sqrt{d_{r,x}^2+d_{r,y}^2}$			
				V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ
1 0	72	4.70	221.85	18.57	0.01	0.02	0.0005								
1 0	61	4.70	221.49					-24.19	0.02	0.03	0.0007				
1 0	72	4.70	221.85									82.74	0.03	0.06	0.0003

Dettaglio risultati

Interpiano Solai	Comb.	Altezza [m]	P [kN]	Direzione x				Direzione y				Direzione $U=\sqrt{d_{r,x}^2+d_{r,y}^2}$			
				V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ
1 0	43	4.70	221.19	53.47	0.01	0.01	0.0001	24.19	0.01	0.02	0.0004	58.69	0.01	0.02	0.0002
	44	4.70	221.19	54.88	0.01	0.02	0.0002	24.19	0.01	0.03	0.0006	59.97	0.02	0.04	0.0003
	45	4.70	221.49	53.47	0.01	0.01	0.0001	-24.19	0.01	0.02	0.0004	58.69	0.01	0.02	0.0002
	46	4.70	221.49	54.88	0.01	0.02	0.0002	-24.19	0.01	0.03	0.0006	59.97	0.02	0.04	0.0003
	47	4.70	221.19	53.36	0.01	0.01	0.0001	24.19	0.01	0.03	0.0005	58.58	0.01	0.03	0.0002
	48	4.70	221.19	54.77	0.01	0.02	0.0002	24.19	0.02	0.03	0.0007	59.87	0.02	0.04	0.0003
	49	4.70	221.49	53.36	0.01	0.01	0.0001	-24.19	0.01	0.03	0.0005	58.58	0.01	0.03	0.0002
	50	4.70	221.49	54.77	0.01	0.02	0.0002	-24.19	0.02	0.03	0.0007	59.87	0.02	0.04	0.0003
	51	4.70	220.83	13.90	0.00	0.01	0.0003	80.62	0.03	0.06	0.0003	81.81	0.03	0.06	0.0003
	52	4.70	220.83	13.86	0.00	0.01	0.0003	80.62	0.03	0.06	0.0003	81.81	0.03	0.06	0.0003
	53	4.70	220.83	-18.57	0.01	0.02	0.0005	80.62	0.03	0.06	0.0003	82.74	0.03	0.06	0.0003
	54	4.70	220.83	-18.61	0.01	0.02	0.0005	80.62	0.03	0.06	0.0003	82.74	0.03	0.06	0.0003
	55	4.70	220.83	18.61	0.01	0.02	0.0005	80.62	0.03	0.06	0.0003	82.74	0.03	0.06	0.0003
	56	4.70	220.83	18.57	0.01	0.02	0.0005	80.62	0.03	0.06	0.0003	82.74	0.03	0.06	0.0003
	57	4.70	220.83	-13.86	0.00	0.01	0.0003	80.62	0.03	0.06	0.0003	81.81	0.03	0.06	0.0003
	58	4.70	220.83	-13.90	0.00	0.01	0.0003	80.62	0.03	0.06	0.0003	81.81	0.03	0.06	0.0003
	59	4.70	221.19	-54.77	0.01	0.02	0.0002	24.19	0.02	0.03	0.0007	59.87	0.02	0.04	0.0003
	60	4.70	221.19	-53.36	0.01	0.01	0.0001	24.19	0.01	0.03	0.0005	58.58	0.01	0.03	0.0002
	61	4.70	221.49	-54.77	0.01	0.02	0.0002	-24.19	0.02	0.03	0.0007	59.87	0.02	0.04	0.0003
	62	4.70	221.49	-53.36	0.01	0.01	0.0001	-24.19	0.01	0.03	0.0005	58.58	0.01	0.03	0.0002
	63	4.70	221.19	-54.88	0.01	0.02	0.0002	24.19	0.01	0.03	0.0006	59.97	0.02	0.04	0.0003
	64	4.70	221.19	-53.47	0.01	0.01	0.0001	24.19	0.01	0.02	0.0004	58.69	0.01	0.02	0.0002
	65	4.70	221.49	-54.88	0.01	0.02	0.0002	-24.19	0.01	0.03	0.0006	59.97	0.02	0.04	0.0003
	66	4.70	221.49	-53.47	0.01	0.01	0.0001	-24.19	0.01	0.02	0.0004	58.69	0.01	0.02	0.0002
	67	4.70	221.85	13.90	0.00	0.01	0.0003	-80.62	0.03	0.06	0.0003	81.81	0.03	0.06	0.0003
	68	4.70	221.85	13.86	0.00	0.01	0.0003	-80.62	0.03	0.06	0.0003	81.81	0.03	0.06	0.0003
	69	4.70	221.85	-18.57	0.01	0.02	0.0005	-80.62	0.03	0.06	0.0003	82.74	0.03	0.06	0.0003
	70	4.70	221.85	-18.61	0.01	0.02	0.0005	-80.62	0.03	0.06	0.0003	82.74	0.03	0.06	0.0003
	71	4.70	221.85	18.61	0.01	0.02	0.0005	-80.62	0.03	0.06	0.0003	82.74	0.03	0.06	0.0003

72	4.70	221.85	18.57	0.01	0.02	0.0005	-80.62	0.03	0.06	0.0003	82.74	0.03	0.06	0.0003
73	4.70	221.85	-13.86	0.00	0.01	0.0003	-80.62	0.03	0.06	0.0003	81.81	0.03	0.06	0.0003
74	4.70	221.85	-13.90	0.00	0.01	0.0003	-80.62	0.03	0.06	0.0003	81.81	0.03	0.06	0.0003

Valutazione Effetti NON-Lineari Pd_r/Vh

$V_x\ \Theta_x = P\ d_{r,x}\ /h$

$V_y\ \Theta_y = P\ d_{r,y}\ /h$

$V\ \Theta = P\ d_r\ /h$ dove: $d_r=sqrt(d_{r,x}^2+d_{r,y}^2)$

Controllo combinazioni 4 .. 35

Fattore di struttura 1.00

Fattore di importanza γ_i 1.00

Modalità di calcolo: spostamenti d'interpiano medi

Massimi

Interpiano Solai	Comb.	Altezza [m]	P [kN]	Direzione x				Direzione y				Direzione $U=\sqrt{d_{r,x}^2+d_{r,y}^2}$			
				V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ
1 0	33	4.70	222.75	43.62	0.02	0.04	0.0005								
1 0	22	4.70	221.76					-57.06	0.04	0.08	0.0006				
1 0	30	4.70	222.75									195.15	0.06	0.14	0.0003

Dettaglio risultati

Interpiano Solai	Comb.	Altezza [m]	P [kN]	Direzione x				Direzione y				Direzione $U=\sqrt{d_{r,x}^2+d_{r,y}^2}$			
				V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ
1 0	4	4.70	220.92	125.20	0.01	0.03	0.0001	57.06	0.02	0.05	0.0004	137.59	0.02	0.05	0.0002
	5	4.70	220.92	128.61	0.02	0.04	0.0002	57.06	0.03	0.07	0.0005	140.70	0.04	0.08	0.0003
	6	4.70	221.76	125.20	0.01	0.03	0.0001	-57.06	0.02	0.05	0.0004	137.59	0.02	0.05	0.0002
	7	4.70	221.76	128.61	0.02	0.04	0.0002	-57.06	0.03	0.07	0.0005	140.70	0.04	0.08	0.0003
	8	4.70	220.92	124.72	0.02	0.03	0.0001	57.06	0.03	0.06	0.0005	137.16	0.03	0.07	0.0002
	9	4.70	220.92	128.14	0.02	0.05	0.0002	57.06	0.04	0.08	0.0006	140.27	0.04	0.09	0.0003
	10	4.70	221.76	124.72	0.02	0.03	0.0001	-57.06	0.03	0.06	0.0005	137.16	0.03	0.07	0.0002
	11	4.70	221.76	128.14	0.02	0.05	0.0002	-57.06	0.04	0.08	0.0006	140.27	0.04	0.09	0.0003
	12	4.70	219.93	32.38	0.01	0.02	0.0003	190.21	0.06	0.13	0.0003	192.95	0.06	0.13	0.0003
	13	4.70	219.93	32.24	0.01	0.02	0.0003	190.21	0.06	0.13	0.0003	192.92	0.06	0.13	0.0003
	14	4.70	219.93	-43.62	0.02	0.04	0.0005	190.21	0.06	0.13	0.0003	195.15	0.06	0.14	0.0003
	15	4.70	219.93	-43.76	0.02	0.04	0.0005	190.21	0.06	0.13	0.0003	195.18	0.06	0.14	0.0003
	16	4.70	219.93	43.76	0.02	0.04	0.0005	190.21	0.06	0.13	0.0003	195.18	0.06	0.14	0.0003
	17	4.70	219.93	43.62	0.02	0.04	0.0005	190.21	0.06	0.13	0.0003	195.15	0.06	0.14	0.0003
	18	4.70	219.93	-32.24	0.01	0.02	0.0003	190.21	0.06	0.13	0.0003	192.92	0.06	0.13	0.0003
	19	4.70	219.93	-32.38	0.01	0.02	0.0003	190.21	0.06	0.13	0.0003	192.95	0.06	0.13	0.0003
	20	4.70	220.92	-128.14	0.02	0.05	0.0002	57.06	0.04	0.08	0.0006	140.27	0.04	0.09	0.0003
	21	4.70	220.92	-124.72	0.02	0.03	0.0001	57.06	0.03	0.06	0.0005	137.16	0.03	0.07	0.0002
	22	4.70	221.76	-128.14	0.02	0.05	0.0002	-57.06	0.04	0.08	0.0006	140.27	0.04	0.09	0.0003
	23	4.70	221.76	-124.72	0.02	0.03	0.0001	-57.06	0.03	0.06	0.0005	137.16	0.03	0.07	0.0002
	24	4.70	220.92	-128.61	0.02	0.04	0.0002	57.06	0.03	0.07	0.0005	140.70	0.04	0.08	0.0003
	25	4.70	220.92	-125.20	0.01	0.03	0.0001	57.06	0.02	0.05	0.0004	137.59	0.02	0.05	0.0002
	26	4.70	221.76	-128.61	0.02	0.04	0.0002	-57.06	0.03	0.07	0.0005	140.70	0.04	0.08	0.0003
	27	4.70	221.76	-125.20	0.01	0.03	0.0001	-57.06	0.02	0.05	0.0004	137.59	0.02	0.05	0.0002
	28	4.70	222.75	32.38	0.01	0.02	0.0003	-190.21	0.06	0.13	0.0003	192.95	0.06	0.13	0.0003
	29	4.70	222.75	32.24	0.01	0.02	0.0003	-190.21	0.06	0.13	0.0003	192.92	0.06	0.13	0.0003
	30	4.70	222.75	-43.62	0.02	0.04	0.0005	-190.21	0.06	0.13	0.0003	195.15	0.06	0.14	0.0003
	31	4.70	222.75	-43.76	0.02	0.04	0.0005	-190.21	0.06	0.13	0.0003	195.18	0.06	0.14	0.0003
	32	4.70	222.75	43.76	0.02	0.04	0.0005	-190.21	0.06	0.13	0.0003	195.18	0.06	0.14	0.0003

33	4.70	222.75	43.62	0.02	0.04	0.0005	-190.21	0.06	0.13	0.0003	195.15	0.06	0.14	0.0003
34	4.70	222.75	-32.24	0.01	0.02	0.0003	-190.21	0.06	0.13	0.0003	192.92	0.06	0.13	0.0003
35	4.70	222.75	-32.38	0.01	0.02	0.0003	-190.21	0.06	0.13	0.0003	192.95	0.06	0.13	0.0003

Combinazioni agli Stati Limite di Danno

Massimi spostamenti differenziali orizzontali

- Fattore moltiplicativo spostamenti dovuti al sisma b 1
- c 1
- Controllo degli spostamenti di interpiano dU inferiore a 0.005 H

Comb.	U_x		U_y		U_z		$\|U_{xyz}\|$	
	Nodi	U_x [cm]	Nodi	U_y [cm]	Nodi	U_z [cm]	Nodi	$\|U_{xyz}\|$ [cm]
43	15-115	0.02	1-101	0.04	11-111	-0.02	11-111	0.04
44	15-115	0.03	1-101	0.04	11-111	-0.02	11-111	0.05
45	11-111	0.02	5-105	-0.04	15-115	0.02	15-115	0.04
46	11-111	0.03	5-105	-0.04	15-115	0.02	15-115	0.05
47	15-115	0.02	1-101	0.04	11-111	-0.00	11-111	0.05
48	15-115	0.03	1-101	0.05	11-111	-0.00	11-111	0.06
49	11-111	0.02	5-105	-0.04	15-115	0.00	15-115	0.05
50	11-111	0.03	5-105	-0.05	15-115	0.00	15-115	0.06
51	11-111	-0.01	5-105	0.06	11-111	-0.01	15-115	0.06
52	11-111	-0.01	5-105	0.06	15-115	-0.00	15-115	0.06
53	11-111	-0.03	5-105	0.08	15-115	-0.01	15-115	0.08
54	11-111	-0.02	5-105	0.08	15-115	-0.01	15-115	0.08
55	15-115	0.02	1-101	0.08	11-111	-0.01	11-111	0.08
56	15-115	0.03	1-101	0.08	11-111	-0.01	11-111	0.08
57	15-115	0.01	1-101	0.06	11-111	-0.00	11-111	0.06
58	15-115	0.01	1-101	0.06	15-115	-0.01	11-111	0.06
59	11-111	-0.03	5-105	0.05	15-115	-0.00	15-115	0.06
60	11-111	-0.02	5-105	0.04	15-115	-0.00	15-115	0.05
61	15-115	-0.03	1-101	-0.05	11-111	0.00	11-111	0.06
62	15-115	-0.02	1-101	-0.04	11-111	0.00	11-111	0.05
63	11-111	-0.03	5-105	0.04	15-115	-0.02	15-115	0.05
64	11-111	-0.02	5-105	0.04	15-115	-0.02	15-115	0.04
65	15-115	-0.03	1-101	-0.04	11-111	0.02	11-111	0.05
66	15-115	-0.02	1-101	-0.04	11-111	0.02	11-111	0.04
67	15-115	-0.01	1-101	-0.06	15-115	0.01	11-111	0.06
68	15-115	-0.01	1-101	-0.06	11-111	0.00	11-111	0.06
69	15-115	-0.03	1-101	-0.08	11-111	0.01	11-111	0.08
70	15-115	-0.02	1-101	-0.08	11-111	0.01	11-111	0.08
71	11-111	0.02	5-105	-0.08	15-115	0.01	15-115	0.08
72	11-111	0.03	5-105	-0.08	15-115	0.01	15-115	0.08
73	11-111	0.01	5-105	-0.06	15-115	0.00	15-115	0.06

74 11-111 0.01 5-105 -0.06 11-111 0.01 15-115 0.06

Spostamenti Max in direzione U_x [cm]

Nodi	Comb.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
15 115	43	**0.02**	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01
15 115	44	0.02	**0.03**	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01
11 111	45	0.02	0.03	**0.02**	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01
11 111	46	0.02	0.03	0.02	**0.03**	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01
15 115	47	0.02	0.03	0.02	0.03	**0.02**	0.03	0.02	0.03	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01
15 115	48	0.02	0.03	0.02	0.03	0.02	**0.03**	0.02	0.03	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01
11 111	49	0.02	0.03	0.02	0.03	0.02	0.03	**0.02**	0.03	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01
11 111	50	0.02	0.03	0.02	0.03	0.02	0.03	0.02	**0.03**	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01
11 111	51	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	**-0.01**	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01
11 111	52	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	**-0.01**	-0.03	-0.02	0.02	0.02	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01
11 111	53	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	**-0.03**	-0.02	0.02	0.02	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01
11 111	54	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.03	**-0.02**	0.02	0.02	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01
15 115	55	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.02	-0.02	**0.02**	0.03	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01
15 115	56	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.02	-0.02	0.02	**0.03**	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01
15 115	57	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.02	-0.02	0.02	0.03	**0.01**	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01
15 115	58	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	**0.01**	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01
11 111	59	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01	**-0.03**	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01
11 111	60	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01	-0.03	**-0.02**	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01
15 115	61	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01	-0.03	-0.02	**-0.03**	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01
15 115	62	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01	-0.03	-0.02	-0.03	**-0.02**	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01
11 111	63	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01	-0.03	-0.02	-0.03	-0.02	**-0.03**	-0.02	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01
11 111	64	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	**-0.02**	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01
15 115	65	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	**-0.03**	-0.02	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01
15 115	66	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	**-0.02**	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01
15 115	67	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	**-0.01**	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01
15 115	68	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	**-0.01**	-0.03	-0.02	0.02	0.02	0.01	0.01
15 115	69	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	**-0.03**	-0.02	0.02	0.02	0.01	0.01
15 115	70	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.03	**-0.02**	0.02	0.02	0.01	0.01
11 111	71	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	**0.02**	0.03	0.01	0.01
11 111	72	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	0.02	**0.03**	0.01	0.01
11 111	73	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	0.02	0.03	**0.01**	0.01
11 111	74	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	-0.01	-0.01	-0.03	-0.02	0.02	0.02	0.01	0.01	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.02	-0.02	0.02	0.03	0.01	**0.01**

Spostamenti Max in direzione U_y [cm]

Nodi	Comb.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
1 101	43	**0.04**	0.04	0.00	0.01	0.04	0.05	0.01	0.02	0.05	0.05	0.03	0.03	0.08	0.08	0.06	0.06	-0.02	-0.01	-0.05	-0.04	-0.01	-0.00	-0.04	-0.04	-0.06	-0.06	-0.08	-0.08	-0.03	-0.03	-0.05	-0.05

1 101 44	0.04	**0.04**	0.00	0.01	0.04	0.05	0.01	0.02	0.05	0.05	0.03	0.03	0.08	0.08	0.06	0.06	-0.02	-0.01	-0.05	-0.04	-0.01	-0.00	-0.04	-0.04	-0.06	-0.06	-0.08	-0.08	-0.03	-0.03	-0.05	-0.05
5 105 45	-0.00	-0.01	**-0.04**	-0.04	-0.01	-0.02	-0.04	-0.05	0.06	0.06	0.08	0.08	0.03	0.03	0.05	0.05	0.05	0.04	0.02	0.01	0.04	0.04	0.01	0.00	-0.05	-0.05	-0.03	-0.03	-0.08	-0.08	-0.06	-0.06
5 105 46	-0.00	-0.01	-0.04	**-0.04**	-0.01	-0.02	-0.04	-0.05	0.06	0.06	0.08	0.08	0.03	0.03	0.05	0.05	0.05	0.04	0.02	0.01	0.04	0.04	0.01	0.00	-0.05	-0.05	-0.03	-0.03	-0.08	-0.08	-0.06	-0.06
1 101 47	0.04	0.04	0.00	0.01	**0.04**	0.05	0.01	0.02	0.05	0.05	0.03	0.03	0.08	0.08	0.06	0.06	-0.02	-0.01	-0.05	-0.04	-0.01	-0.00	-0.04	-0.04	-0.06	-0.06	-0.08	-0.08	-0.03	-0.03	-0.05	-0.05
1 101 48	0.04	0.04	0.00	0.01	0.04	**0.05**	0.01	0.02	0.05	0.05	0.03	0.03	0.08	0.08	0.06	0.06	-0.02	-0.01	-0.05	-0.04	-0.01	-0.00	-0.04	-0.04	-0.06	-0.06	-0.08	-0.08	-0.03	-0.03	-0.05	-0.05
5 105 49	-0.00	-0.01	-0.04	-0.04	-0.01	-0.02	**-0.04**	-0.05	0.06	0.06	0.08	0.08	0.03	0.03	0.05	0.05	0.05	0.04	0.02	0.01	0.04	0.04	0.01	0.00	-0.05	-0.05	-0.03	-0.03	-0.08	-0.08	-0.06	-0.06
5 105 50	-0.00	-0.01	-0.04	-0.04	-0.01	-0.02	-0.04	**-0.05**	0.06	0.06	0.08	0.08	0.03	0.03	0.05	0.05	0.05	0.04	0.02	0.01	0.04	0.04	0.01	0.00	-0.05	-0.05	-0.03	-0.03	-0.08	-0.08	-0.06	-0.06
5 105 51	-0.00	-0.01	-0.04	-0.04	-0.01	-0.02	-0.04	-0.05	**0.06**	0.06	0.08	0.08	0.03	0.03	0.05	0.05	0.05	0.04	0.02	0.01	0.04	0.04	0.01	0.00	-0.05	-0.05	-0.03	-0.03	-0.08	-0.08	-0.06	-0.06
5 105 52	-0.00	-0.01	-0.04	-0.04	-0.01	-0.02	-0.04	-0.05	0.06	**0.06**	0.08	0.08	0.03	0.03	0.05	0.05	0.05	0.04	0.02	0.01	0.04	0.04	0.01	0.00	-0.05	-0.05	-0.03	-0.03	-0.08	-0.08	-0.06	-0.06
5 105 53	-0.00	-0.01	-0.04	-0.04	-0.01	-0.02	-0.04	-0.05	0.06	0.06	**0.08**	0.08	0.03	0.03	0.05	0.05	0.05	0.04	0.02	0.01	0.04	0.04	0.01	0.00	-0.05	-0.05	-0.03	-0.03	-0.08	-0.08	-0.06	-0.06
5 105 54	-0.00	-0.01	-0.04	-0.04	-0.01	-0.02	-0.04	-0.05	0.06	0.06	0.08	**0.08**	0.03	0.03	0.05	0.05	0.05	0.04	0.02	0.01	0.04	0.04	0.01	0.00	-0.05	-0.05	-0.03	-0.03	-0.08	-0.08	-0.06	-0.06
1 101 55	0.04	0.04	0.00	0.01	0.04	0.05	0.01	0.02	0.05	0.05	0.03	0.03	**0.08**	0.08	0.06	0.06	-0.02	-0.01	-0.05	-0.04	-0.01	-0.00	-0.04	-0.04	-0.06	-0.06	-0.08	-0.08	-0.03	-0.03	-0.05	-0.05
1 101 56	0.04	0.04	0.00	0.01	0.04	0.05	0.01	0.02	0.05	0.05	0.03	0.03	0.08	**0.08**	0.06	0.06	-0.02	-0.01	-0.05	-0.04	-0.01	-0.00	-0.04	-0.04	-0.06	-0.06	-0.08	-0.08	-0.03	-0.03	-0.05	-0.05
1 101 57	0.04	0.04	0.00	0.01	0.04	0.05	0.01	0.02	0.05	0.05	0.03	0.03	0.08	0.08	**0.06**	0.06	-0.02	-0.01	-0.05	-0.04	-0.01	-0.00	-0.04	-0.04	-0.06	-0.06	-0.08	-0.08	-0.03	-0.03	-0.05	-0.05
1 101 58	0.04	0.04	0.00	0.01	0.04	0.05	0.01	0.02	0.05	0.05	0.03	0.03	0.08	0.08	0.06	**0.06**	-0.02	-0.01	-0.05	-0.04	-0.01	-0.00	-0.04	-0.04	-0.06	-0.06	-0.08	-0.08	-0.03	-0.03	-0.05	-0.05
5 105 59	-0.00	-0.01	-0.04	-0.04	-0.01	-0.02	-0.04	-0.05	0.06	0.06	0.08	0.08	0.03	0.03	0.05	0.05	**0.05**	0.04	0.02	0.01	0.04	0.04	0.01	0.00	-0.05	-0.05	-0.03	-0.03	-0.08	-0.08	-0.06	-0.06
5 105 60	-0.00	-0.01	-0.04	-0.04	-0.01	-0.02	-0.04	-0.05	0.06	0.06	0.08	0.08	0.03	0.03	0.05	0.05	0.05	**0.04**	0.02	0.01	0.04	0.04	0.01	0.00	-0.05	-0.05	-0.03	-0.03	-0.08	-0.08	-0.06	-0.06
1 101 61	0.04	0.04	0.00	0.01	0.04	0.05	0.01	0.02	0.05	0.05	0.03	0.03	0.08	0.08	0.06	0.06	-0.02	-0.01	**-0.05**	-0.04	-0.01	-0.00	-0.04	-0.04	-0.06	-0.06	-0.08	-0.08	-0.03	-0.03	-0.05	-0.05
1 101 62	0.04	0.04	0.00	0.01	0.04	0.05	0.01	0.02	0.05	0.05	0.03	0.03	0.08	0.08	0.06	0.06	-0.02	-0.01	-0.05	**-0.04**	-0.01	-0.00	-0.04	-0.04	-0.06	-0.06	-0.08	-0.08	-0.03	-0.03	-0.05	-0.05
5 105 63	-0.00	-0.01	-0.04	-0.04	-0.01	-0.02	-0.04	-0.05	0.06	0.06	0.08	0.08	0.03	0.03	0.05	0.05	0.05	0.04	0.02	0.01	**0.04**	0.04	0.01	0.00	-0.05	-0.05	-0.03	-0.03	-0.08	-0.08	-0.06	-0.06
5 105 64	-0.00	-0.01	-0.04	-0.04	-0.01	-0.02	-0.04	-0.05	0.06	0.06	0.08	0.08	0.03	0.03	0.05	0.05	0.05	0.04	0.02	0.01	0.04	**0.04**	0.01	0.00	-0.05	-0.05	-0.03	-0.03	-0.08	-0.08	-0.06	-0.06
1 101 65	0.04	0.04	0.00	0.01	0.04	0.05	0.01	0.02	0.05	0.05	0.03	0.03	0.08	0.08	0.06	0.06	-0.02	-0.01	-0.05	-0.04	-0.01	-0.00	**-0.04**	-0.04	-0.06	-0.06	-0.08	-0.08	-0.03	-0.03	-0.05	-0.05
1 101 66	0.04	0.04	0.00	0.01	0.04	0.05	0.01	0.02	0.05	0.05	0.03	0.03	0.08	0.08	0.06	0.06	-0.02	-0.01	-0.05	-0.04	-0.01	-0.00	-0.04	**-0.04**	-0.06	-0.06	-0.08	-0.08	-0.03	-0.03	-0.05	-0.05
1 101 67	0.04	0.04	0.00	0.01	0.04	0.05	0.01	0.02	0.05	0.05	0.03	0.03	0.08	0.08	0.06	0.06	-0.02	-0.01	-0.05	-0.04	-0.01	-0.00	-0.04	-0.04	**-0.06**	-0.06	-0.08	-0.08	-0.03	-0.03	-0.05	-0.05
1 101 68	0.04	0.04	0.00	0.01	0.04	0.05	0.01	0.02	0.05	0.05	0.03	0.03	0.08	0.08	0.06	0.06	-0.02	-0.01	-0.05	-0.04	-0.01	-0.00	-0.04	-0.04	-0.06	**-0.06**	-0.08	-0.08	-0.03	-0.03	-0.05	-0.05
1 101 69	0.04	0.04	0.00	0.01	0.04	0.05	0.01	0.02	0.05	0.05	0.03	0.03	0.08	0.08	0.06	0.06	-0.02	-0.01	-0.05	-0.04	-0.01	-0.00	-0.04	-0.04	-0.06	-0.06	**-0.08**	-0.08	-0.03	-0.03	-0.05	-0.05
1 101 70	0.04	0.04	0.00	0.01	0.04	0.05	0.01	0.02	0.05	0.05	0.03	0.03	0.08	0.08	0.06	0.06	-0.02	-0.01	-0.05	-0.04	-0.01	-0.00	-0.04	-0.04	-0.06	-0.06	-0.08	**-0.08**	-0.03	-0.03	-0.05	-0.05
5 105 71	-0.00	-0.01	-0.04	-0.04	-0.01	-0.02	-0.04	-0.05	0.06	0.06	0.08	0.08	0.03	0.03	0.05	0.05	0.05	0.04	0.02	0.01	0.04	0.04	0.01	0.00	-0.05	-0.05	-0.03	-0.03	**-0.08**	-0.08	-0.06	-0.06
5 105 72	-0.00	-0.01	-0.04	-0.04	-0.01	-0.02	-0.04	-0.05	0.06	0.06	0.08	0.08	0.03	0.03	0.05	0.05	0.05	0.04	0.02	0.01	0.04	0.04	0.01	0.00	-0.05	-0.05	-0.03	-0.03	-0.08	**-0.08**	-0.06	-0.06
5 105 73	-0.00	-0.01	-0.04	-0.04	-0.01	-0.02	-0.04	-0.05	0.06	0.06	0.08	0.08	0.03	0.03	0.05	0.05	0.05	0.04	0.02	0.01	0.04	0.04	0.01	0.00	-0.05	-0.05	-0.03	-0.03	-0.08	-0.08	**-0.06**	-0.06
5 105 74	-0.00	-0.01	-0.04	-0.04	-0.01	-0.02	-0.04	-0.05	0.06	0.06	0.08	0.08	0.03	0.03	0.05	0.05	0.05	0.04	0.02	0.01	0.04	0.04	0.01	0.00	-0.05	-0.05	-0.03	-0.03	-0.08	-0.08	-0.06	**-0.06**

Spostamenti Max in direzione U_z [cm]

Nodi	Comb.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
11	111 43	**-0.02**	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
11	111 44	-0.02	**-0.02**	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
15	115 45	0.01	0.01	**0.02**	0.02	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.01	-0.01	0.01	0.00	0.00	-0.00	0.01	0.01	0.00	0.00
15	115 46	0.01	0.01	0.02	**0.02**	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.01	-0.01	0.01	0.00	0.00	-0.00	0.01	0.01	0.00	0.00
11	111 47	-0.02	-0.02	-0.01	-0.01	**-0.00**	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
11	111 48	-0.02	-0.02	-0.01	-0.01	-0.00	**-0.00**	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
15	115 49	0.01	0.01	0.02	0.02	0.00	0.00	**0.00**	0.00	-0.00	-0.00	-0.01	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.01	-0.01	0.01	0.00	0.00	-0.00	0.01	0.01	0.00	0.00
15	115 50	0.01	0.01	0.02	0.02	0.00	0.00	0.00	**0.00**	-0.00	-0.00	-0.01	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.01	-0.01	0.01	0.00	0.00	-0.00	0.01	0.01	0.00	0.00
11	111 51	-0.02	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	**-0.01**	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01

15 115 52	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	-0.00	**-0.00**	-0.01	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.01	-0.01	0.01	0.00	0.00	-0.00	0.01	0.01	0.00	0.00
15 115 53	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	-0.00	-0.00	**-0.01**	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.01	-0.01	0.01	0.00	0.00	-0.00	0.01	0.01	0.00	0.00
15 115 54	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	**-0.01**	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.01	-0.01	0.01	0.00	0.00	-0.00	0.01	0.01	0.00	0.00
11 111 55	-0.02	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	**-0.01**	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
11 111 56	-0.02	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	**-0.01**	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
11 111 57	-0.02	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	**-0.00**	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
15 115 58	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	-0.01	0.00	-0.00	-0.00	**-0.01**	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.01	-0.01	0.01	0.00	0.00	-0.00	0.01	0.01	0.00	0.00
15 115 59	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	-0.01	0.00	-0.00	-0.00	-0.01	**-0.00**	-0.00	-0.00	-0.00	-0.02	-0.02	-0.01	-0.01	0.01	0.00	0.00	-0.00	0.01	0.01	0.00	0.00
15 115 60	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	**-0.00**	-0.00	-0.00	-0.02	-0.02	-0.01	-0.01	0.01	0.00	0.00	-0.00	0.01	0.01	0.00	0.00
11 111 61	-0.02	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	**0.00**	0.00	0.01	0.01	0.02	0.02	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
11 111 62	-0.02	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	**0.00**	0.01	0.01	0.02	0.02	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
15 115 63	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	**-0.02**	-0.02	-0.01	-0.01	0.01	0.00	0.00	-0.00	0.01	0.01	0.00	0.00
15 115 64	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	**-0.02**	-0.01	-0.01	0.01	0.00	0.00	-0.00	0.01	0.01	0.00	0.00
11 111 65	-0.02	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	**0.02**	0.02	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
11 111 66	-0.02	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	**0.02**	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
15 115 67	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.01	-0.01	**0.01**	0.00	0.00	-0.00	0.01	0.01	0.00	0.00
11 111 68	-0.02	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.00	**0.00**	0.01	0.01	-0.00	0.00	0.00	0.01
11 111 69	-0.02	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.00	0.00	**0.01**	0.01	-0.00	0.00	0.00	0.01
11 111 70	-0.02	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.00	0.00	0.01	**0.01**	-0.00	0.00	0.00	0.01
15 115 71	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.01	-0.01	0.01	0.00	0.00	-0.00	**0.01**	0.01	0.00	0.00
15 115 72	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.01	-0.01	0.01	0.00	0.00	-0.00	0.01	**0.01**	0.00	0.00
15 115 73	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.01	-0.01	0.01	0.00	0.00	-0.00	0.01	0.01	**0.00**	0.00
11 111 74	-0.02	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	**0.01**

Spostamenti Max in direzione $|U_{xyz}|$ [cm]

Nodi	Comb.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
11 111	43	**0.04**	0.05	0.02	0.03	0.05	0.06	0.02	0.04	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06	0.04	0.02	0.06	0.05	0.03	0.02	0.05	0.04	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05
11 111	44	0.04	**0.05**	0.02	0.03	0.05	0.06	0.02	0.04	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06	0.04	0.02	0.06	0.05	0.03	0.02	0.05	0.04	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05
15 115	45	0.02	0.03	**0.04**	0.05	0.02	0.04	0.05	0.06	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05	0.06	0.05	0.04	0.02	0.05	0.04	0.03	0.02	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06
15 115	46	0.02	0.03	0.04	**0.05**	0.02	0.04	0.05	0.06	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05	0.06	0.05	0.04	0.02	0.05	0.04	0.03	0.02	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06
11 111	47	0.04	0.05	0.02	0.03	**0.05**	0.06	0.02	0.04	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06	0.04	0.02	0.06	0.05	0.03	0.02	0.05	0.04	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05
11 111	48	0.04	0.05	0.02	0.03	0.05	**0.06**	0.02	0.04	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06	0.04	0.02	0.06	0.05	0.03	0.02	0.05	0.04	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05
15 115	49	0.02	0.03	0.04	0.05	0.02	0.04	**0.05**	0.06	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05	0.06	0.05	0.04	0.02	0.05	0.04	0.03	0.02	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06
15 115	50	0.02	0.03	0.04	0.05	0.02	0.04	0.05	**0.06**	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05	0.06	0.05	0.04	0.02	0.05	0.04	0.03	0.02	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06
15 115	51	0.02	0.03	0.04	0.05	0.02	0.04	0.05	0.06	**0.06**	0.06	0.08	0.08	0.04	0.04	0.05	0.05	0.06	0.05	0.04	0.02	0.05	0.04	0.03	0.02	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06
15 115	52	0.02	0.03	0.04	0.05	0.02	0.04	0.05	0.06	0.06	**0.06**	0.08	0.08	0.04	0.04	0.05	0.05	0.06	0.05	0.04	0.02	0.05	0.04	0.03	0.02	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06
15 115	53	0.02	0.03	0.04	0.05	0.02	0.04	0.05	0.06	0.06	0.06	**0.08**	0.08	0.04	0.04	0.05	0.05	0.06	0.05	0.04	0.02	0.05	0.04	0.03	0.02	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06
15 115	54	0.02	0.03	0.04	0.05	0.02	0.04	0.05	0.06	0.06	0.06	0.08	**0.08**	0.04	0.04	0.05	0.05	0.06	0.05	0.04	0.02	0.05	0.04	0.03	0.02	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06
11 111	55	0.04	0.05	0.02	0.03	0.05	0.06	0.02	0.04	0.05	0.05	0.04	0.04	**0.08**	0.08	0.06	0.06	0.04	0.02	0.06	0.05	0.03	0.02	0.05	0.04	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05
11 111	56	0.04	0.05	0.02	0.03	0.05	0.06	0.02	0.04	0.05	0.05	0.04	0.04	0.08	**0.08**	0.06	0.06	0.04	0.02	0.06	0.05	0.03	0.02	0.05	0.04	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05
11 111	57	0.04	0.05	0.02	0.03	0.05	0.06	0.02	0.04	0.05	0.05	0.04	0.04	0.08	0.08	**0.06**	0.06	0.04	0.02	0.06	0.05	0.03	0.02	0.05	0.04	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05
11 111	58	0.04	0.05	0.02	0.03	0.05	0.06	0.02	0.04	0.05	0.05	0.04	0.04	0.08	0.08	0.06	**0.06**	0.04	0.02	0.06	0.05	0.03	0.02	0.05	0.04	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05
15 115	59	0.02	0.03	0.04	0.05	0.02	0.04	0.05	0.06	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05	**0.06**	0.05	0.04	0.02	0.05	0.04	0.03	0.02	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06

15 115	60	0.02	0.03	0.04	0.05	0.02	0.04	0.05	0.06	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05	0.06	**0.05**	0.04	0.02	0.05	0.04	0.03	0.02	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06
11 111	61	0.04	0.05	0.02	0.03	0.05	0.06	0.02	0.04	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06	0.04	0.02	**0.06**	0.05	0.03	0.02	0.05	0.04	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05
11 111	62	0.04	0.05	0.02	0.03	0.05	0.06	0.02	0.04	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06	0.04	0.02	0.06	**0.05**	0.03	0.02	0.05	0.04	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05
15 115	63	0.02	0.03	0.04	0.05	0.02	0.04	0.05	0.06	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05	0.06	0.05	0.04	0.02	**0.05**	0.04	0.03	0.02	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06
15 115	64	0.02	0.03	0.04	0.05	0.02	0.04	0.05	0.06	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05	0.06	0.05	0.04	0.02	0.05	**0.04**	0.03	0.02	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06
11 111	65	0.04	0.05	0.02	0.03	0.05	0.06	0.02	0.04	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06	0.04	0.02	0.06	0.05	0.03	0.02	**0.05**	0.04	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05
11 111	66	0.04	0.05	0.02	0.03	0.05	0.06	0.02	0.04	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06	0.04	0.02	0.06	0.05	0.03	0.02	0.05	**0.04**	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05
11 111	67	0.04	0.05	0.02	0.03	0.05	0.06	0.02	0.04	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06	0.04	0.02	0.06	0.05	0.03	0.02	0.05	0.04	**0.06**	0.06	0.08	0.08	0.04	0.04	0.05	0.05
11 111	68	0.04	0.05	0.02	0.03	0.05	0.06	0.02	0.04	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06	0.04	0.02	0.06	0.05	0.03	0.02	0.05	0.04	0.06	**0.06**	0.08	0.08	0.04	0.04	0.05	0.05
11 111	69	0.04	0.05	0.02	0.03	0.05	0.06	0.02	0.04	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06	0.04	0.02	0.06	0.05	0.03	0.02	0.05	0.04	0.06	0.06	**0.08**	0.08	0.04	0.04	0.05	0.05
11 111	70	0.04	0.05	0.02	0.03	0.05	0.06	0.02	0.04	0.05	0.05	0.04	0.04	0.08	0.08	0.06	0.06	0.04	0.02	0.06	0.05	0.03	0.02	0.05	0.04	0.06	0.06	0.08	**0.08**	0.04	0.04	0.05	0.05
15 115	71	0.02	0.03	0.04	0.05	0.02	0.04	0.05	0.06	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05	0.06	0.05	0.04	0.02	0.05	0.04	0.03	0.02	0.05	0.05	0.04	0.04	**0.08**	0.08	0.06	0.06
15 115	72	0.02	0.03	0.04	0.05	0.02	0.04	0.05	0.06	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05	0.06	0.05	0.04	0.02	0.05	0.04	0.03	0.02	0.05	0.05	0.04	0.04	0.08	**0.08**	0.06	0.06
15 115	73	0.02	0.03	0.04	0.05	0.02	0.04	0.05	0.06	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05	0.06	0.05	0.04	0.02	0.05	0.04	0.03	0.02	0.05	0.05	0.04	0.04	0.08	0.08	**0.06**	0.06
15 115	74	0.02	0.03	0.04	0.05	0.02	0.04	0.05	0.06	0.06	0.06	0.08	0.08	0.04	0.04	0.05	0.05	0.06	0.05	0.04	0.02	0.05	0.04	0.03	0.02	0.05	0.05	0.04	0.04	0.08	0.08	0.06	**0.06**

Spostamenti Massimi :

Combinazione di Carico 53 Fra i nodi 15 115 $|U_{xyz}|$ Spostamento 0.08 [cm]

Non si sono rilevati spostamenti di interpiano superiori a 0.005000 H

du/H x 1000 Max in direzione U_x

Nodi	dx [cm]	dy [cm]	dz [cm]	L [cm]	Comb.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
15 115	0.00	0.00	470.00	470.00	43	**0.036**	0.058	0.036	0.057	0.047	0.068	0.046	0.068	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022	-0.068	-0.046	-0.068	-0.047	-0.057	-0.036	-0.058	-0.036	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021
15 115	0.00	0.00	470.00	470.00	44	0.036	**0.058**	0.036	0.057	0.047	0.068	0.046	0.068	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022	-0.068	-0.046	-0.068	-0.047	-0.057	-0.036	-0.058	-0.036	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021
11 111	0.00	0.00	470.00	470.00	45	0.036	0.057	**0.036**	0.058	0.046	0.068	0.047	0.068	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021	-0.068	-0.047	-0.068	-0.046	-0.058	-0.036	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022
11 111	0.00	0.00	470.00	470.00	46	0.036	0.057	0.036	**0.058**	0.046	0.068	0.047	0.068	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021	-0.068	-0.047	-0.068	-0.046	-0.058	-0.036	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022
15 115	0.00	0.00	470.00	470.00	47	0.036	0.058	0.036	0.057	**0.047**	0.068	0.046	0.068	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022	-0.068	-0.046	-0.068	-0.047	-0.057	-0.036	-0.058	-0.036	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021
15 115	0.00	0.00	470.00	470.00	48	0.036	0.058	0.036	0.057	0.047	**0.068**	0.046	0.068	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022	-0.068	-0.046	-0.068	-0.047	-0.057	-0.036	-0.058	-0.036	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021
11 111	0.00	0.00	470.00	470.00	49	0.036	0.057	0.036	0.058	0.046	0.068	**0.047**	0.068	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021	-0.068	-0.047	-0.068	-0.046	-0.058	-0.036	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022
11 111	0.00	0.00	470.00	470.00	50	0.036	0.057	0.036	0.058	0.046	0.068	0.047	**0.068**	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021	-0.068	-0.047	-0.068	-0.046	-0.058	-0.036	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022
11 111	0.00	0.00	470.00	470.00	51	0.036	0.057	0.036	0.058	0.046	0.068	0.047	0.068	**-0.022**	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021	-0.068	-0.047	-0.068	-0.046	-0.058	-0.036	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022
11 111	0.00	0.00	470.00	470.00	52	0.036	0.057	0.036	0.058	0.046	0.068	0.047	0.068	-0.022	**-0.019**	-0.054	-0.050	0.049	0.052	0.018	0.021	-0.068	-0.047	-0.068	-0.046	-0.058	-0.036	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022
11 111	0.00	0.00	470.00	470.00	53	0.036	0.057	0.036	0.058	0.046	0.068	0.047	0.068	-0.022	-0.019	**-0.054**	-0.050	0.049	0.052	0.018	0.021	-0.068	-0.047	-0.068	-0.046	-0.058	-0.036	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022
11 111	0.00	0.00	470.00	470.00	54	0.036	0.057	0.036	0.058	0.046	0.068	0.047	0.068	-0.022	-0.019	-0.054	**-0.050**	0.049	0.052	0.018	0.021	-0.068	-0.047	-0.068	-0.046	-0.058	-0.036	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022
15 115	0.00	0.00	470.00	470.00	55	0.036	0.058	0.036	0.057	0.047	0.068	0.046	0.068	-0.021	-0.018	-0.052	-0.049	**0.050**	0.054	0.019	0.022	-0.068	-0.046	-0.068	-0.047	-0.057	-0.036	-0.058	-0.036	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021
15 115	0.00	0.00	470.00	470.00	56	0.036	0.058	0.036	0.057	0.047	0.068	0.046	0.068	-0.021	-0.018	-0.052	-0.049	0.050	**0.054**	0.019	0.022	-0.068	-0.046	-0.068	-0.047	-0.057	-0.036	-0.058	-0.036	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021
15 115	0.00	0.00	470.00	470.00	57	0.036	0.058	0.036	0.057	0.047	0.068	0.046	0.068	-0.021	-0.018	-0.052	-0.049	0.050	0.054	**0.019**	0.022	-0.068	-0.046	-0.068	-0.047	-0.057	-0.036	-0.058	-0.036	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021
15 115	0.00	0.00	470.00	470.00	58	0.036	0.058	0.036	0.057	0.047	0.068	0.046	0.068	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	**0.022**	-0.068	-0.046	-0.068	-0.047	-0.057	-0.036	-0.058	-0.036	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021

11	111	0.00	0.00	470.00	470.00	59	0.036	0.057	0.036	0.058	0.046	0.068	0.047	0.068	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021	**-0.068**	-0.047	-0.068	-0.046	-0.058	-0.036	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022
11	111	0.00	0.00	470.00	470.00	60	0.036	0.057	0.036	0.058	0.046	0.068	0.047	0.068	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021	-0.068	**-0.047**	-0.068	-0.046	-0.058	-0.036	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022
15	115	0.00	0.00	470.00	470.00	61	0.036	0.058	0.036	0.057	0.047	0.068	0.046	0.068	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022	-0.068	-0.046	**-0.068**	-0.047	-0.057	-0.036	-0.058	-0.036	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021
15	115	0.00	0.00	470.00	470.00	62	0.036	0.058	0.036	0.057	0.047	0.068	0.046	0.068	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022	-0.068	-0.046	-0.068	**-0.047**	-0.057	-0.036	-0.058	-0.036	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021
11	111	0.00	0.00	470.00	470.00	63	0.036	0.057	0.036	0.058	0.046	0.068	0.047	0.068	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021	-0.068	-0.047	-0.068	-0.046	**-0.058**	-0.036	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022
11	111	0.00	0.00	470.00	470.00	64	0.036	0.057	0.036	0.058	0.046	0.068	0.047	0.068	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021	-0.068	-0.047	-0.068	-0.046	-0.058	**-0.036**	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022
15	115	0.00	0.00	470.00	470.00	65	0.036	0.058	0.036	0.057	0.047	0.068	0.046	0.068	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022	-0.068	-0.046	-0.068	-0.047	-0.057	-0.036	**-0.058**	-0.036	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021
15	115	0.00	0.00	470.00	470.00	66	0.036	0.058	0.036	0.057	0.047	0.068	0.046	0.068	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022	-0.068	-0.046	-0.068	-0.047	-0.057	-0.036	-0.058	**-0.036**	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021
15	115	0.00	0.00	470.00	470.00	67	0.036	0.058	0.036	0.057	0.047	0.068	0.046	0.068	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022	-0.068	-0.046	-0.068	-0.047	-0.057	-0.036	-0.058	-0.036	**-0.022**	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021
15	115	0.00	0.00	470.00	470.00	68	0.036	0.058	0.036	0.057	0.047	0.068	0.046	0.068	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022	-0.068	-0.046	-0.068	-0.047	-0.057	-0.036	-0.058	-0.036	-0.022	**-0.019**	-0.054	-0.050	0.049	0.052	0.018	0.021
15	115	0.00	0.00	470.00	470.00	69	0.036	0.058	0.036	0.057	0.047	0.068	0.046	0.068	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022	-0.068	-0.046	-0.068	-0.047	-0.057	-0.036	-0.058	-0.036	-0.022	-0.019	**-0.054**	-0.050	0.049	0.052	0.018	0.021
15	115	0.00	0.00	470.00	470.00	70	0.036	0.058	0.036	0.057	0.047	0.068	0.046	0.068	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	0.022	-0.068	-0.046	-0.068	-0.047	-0.057	-0.036	-0.058	-0.036	-0.022	-0.019	-0.054	**-0.050**	0.049	0.052	0.018	0.021
11	111	0.00	0.00	470.00	470.00	71	0.036	0.057	0.036	0.058	0.046	0.068	0.047	0.068	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021	-0.068	-0.047	-0.068	-0.046	-0.058	-0.036	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	**0.050**	0.054	0.019	0.022
11	111	0.00	0.00	470.00	470.00	72	0.036	0.057	0.036	0.058	0.046	0.068	0.047	0.068	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021	-0.068	-0.047	-0.068	-0.046	-0.058	-0.036	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	0.050	**0.054**	0.019	0.022
11	111	0.00	0.00	470.00	470.00	73	0.036	0.057	0.036	0.058	0.046	0.068	0.047	0.068	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021	-0.068	-0.047	-0.068	-0.046	-0.058	-0.036	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	0.050	0.054	**0.019**	0.022
11	111	0.00	0.00	470.00	470.00	74	0.036	0.057	0.036	0.058	0.046	0.068	0.047	0.068	-0.022	-0.019	-0.054	-0.050	0.049	0.052	0.018	0.021	-0.068	-0.047	-0.068	-0.046	-0.058	-0.036	-0.057	-0.036	-0.021	-0.018	-0.052	-0.049	0.050	0.054	0.019	**0.022**

du/H x 1000 Max in direzione U_y

Nodi		dx [cm]	dy [cm]	dz [cm]	L [cm]	Comb.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
1	101	0.00	0.00	470.00	470.00	43	**0.075**	0.093	0.006	0.024	0.085	0.104	0.017	0.035	0.099	0.102	0.066	0.070	0.160	0.163	0.127	0.130	-0.035	-0.017	-0.104	-0.085	-0.024	-0.006	-0.093	-0.075	-0.130	-0.127	-0.163	-0.160	-0.070	-0.066	-0.102	-0.099
1	101	0.00	0.00	470.00	470.00	44	0.075	**0.093**	0.006	0.024	0.085	0.104	0.017	0.035	0.099	0.102	0.066	0.070	0.160	0.163	0.127	0.130	-0.035	-0.017	-0.104	-0.085	-0.024	-0.006	-0.093	-0.075	-0.130	-0.127	-0.163	-0.160	-0.070	-0.066	-0.102	-0.099
5	105	0.00	0.00	470.00	470.00	45	-0.006	-0.024	**-0.075**	-0.093	-0.017	-0.035	-0.085	-0.104	0.130	0.127	0.163	0.160	0.070	0.066	0.102	0.099	0.104	0.085	0.035	0.017	0.093	0.075	0.024	0.006	-0.099	-0.102	-0.066	-0.070	-0.160	-0.163	-0.127	-0.130
5	105	0.00	0.00	470.00	470.00	46	-0.006	-0.024	-0.075	**-0.093**	-0.017	-0.035	-0.085	-0.104	0.130	0.127	0.163	0.160	0.070	0.066	0.102	0.099	0.104	0.085	0.035	0.017	0.093	0.075	0.024	0.006	-0.099	-0.102	-0.066	-0.070	-0.160	-0.163	-0.127	-0.130
1	101	0.00	0.00	470.00	470.00	47	0.075	0.093	0.006	0.024	**0.085**	0.104	0.017	0.035	0.099	0.102	0.066	0.070	0.160	0.163	0.127	0.130	-0.035	-0.017	-0.104	-0.085	-0.024	-0.006	-0.093	-0.075	-0.130	-0.127	-0.163	-0.160	-0.070	-0.066	-0.102	-0.099
1	101	0.00	0.00	470.00	470.00	48	0.075	0.093	0.006	0.024	0.085	**0.104**	0.017	0.035	0.099	0.102	0.066	0.070	0.160	0.163	0.127	0.130	-0.035	-0.017	-0.104	-0.085	-0.024	-0.006	-0.093	-0.075	-0.130	-0.127	-0.163	-0.160	-0.070	-0.066	-0.102	-0.099
5	105	0.00	0.00	470.00	470.00	49	-0.006	-0.024	-0.075	-0.093	-0.017	-0.035	**-0.085**	-0.104	0.130	0.127	0.163	0.160	0.070	0.066	0.102	0.099	0.104	0.085	0.035	0.017	0.093	0.075	0.024	0.006	-0.099	-0.102	-0.066	-0.070	-0.160	-0.163	-0.127	-0.130
5	105	0.00	0.00	470.00	470.00	50	-0.006	-0.024	-0.075	-0.093	-0.017	-0.035	-0.085	**-0.104**	0.130	0.127	0.163	0.160	0.070	0.066	0.102	0.099	0.104	0.085	0.035	0.017	0.093	0.075	0.024	0.006	-0.099	-0.102	-0.066	-0.070	-0.160	-0.163	-0.127	-0.130
5	105	0.00	0.00	470.00	470.00	51	-0.006	-0.024	-0.075	-0.093	-0.017	-0.035	-0.085	-0.104	**0.130**	0.127	0.163	0.160	0.070	0.066	0.102	0.099	0.104	0.085	0.035	0.017	0.093	0.075	0.024	0.006	-0.099	-0.102	-0.066	-0.070	-0.160	-0.163	-0.127	-0.130
5	105	0.00	0.00	470.00	470.00	52	-0.006	-0.024	-0.075	-0.093	-0.017	-0.035	-0.085	-0.104	0.130	**0.127**	0.163	0.160	0.070	0.066	0.102	0.099	0.104	0.085	0.035	0.017	0.093	0.075	0.024	0.006	-0.099	-0.102	-0.066	-0.070	-0.160	-0.163	-0.127	-0.130
5	105	0.00	0.00	470.00	470.00	53	-0.006	-0.024	-0.075	-0.093	-0.017	-0.035	-0.085	-0.104	0.130	0.127	**0.163**	0.160	0.070	0.066	0.102	0.099	0.104	0.085	0.035	0.017	0.093	0.075	0.024	0.006	-0.099	-0.102	-0.066	-0.070	-0.160	-0.163	-0.127	-0.130
5	105	0.00	0.00	470.00	470.00	54	-0.006	-0.024	-0.075	-0.093	-0.017	-0.035	-0.085	-0.104	0.130	0.127	0.163	**0.160**	0.070	0.066	0.102	0.099	0.104	0.085	0.035	0.017	0.093	0.075	0.024	0.006	-0.099	-0.102	-0.066	-0.070	-0.160	-0.163	-0.127	-0.130
1	101	0.00	0.00	470.00	470.00	55	0.075	0.093	0.006	0.024	0.085	0.104	0.017	0.035	0.099	0.102	0.066	0.070	**0.160**	0.163	0.127	0.130	-0.035	-0.017	-0.104	-0.085	-0.024	-0.006	-0.093	-0.075	-0.130	-0.127	-0.163	-0.160	-0.070	-0.066	-0.102	-0.099
1	101	0.00	0.00	470.00	470.00	56	0.075	0.093	0.006	0.024	0.085	0.104	0.017	0.035	0.099	0.102	0.066	0.070	0.160	**0.163**	0.127	0.130	-0.035	-0.017	-0.104	-0.085	-0.024	-0.006	-0.093	-0.075	-0.130	-0.127	-0.163	-0.160	-0.070	-0.066	-0.102	-0.099
1	101	0.00	0.00	470.00	470.00	57	0.075	0.093	0.006	0.024	0.085	0.104	0.017	0.035	0.099	0.102	0.066	0.070	0.160	0.163	**0.127**	0.130	-0.035	-0.017	-0.104	-0.085	-0.024	-0.006	-0.093	-0.075	-0.130	-0.127	-0.163	-0.160	-0.070	-0.066	-0.102	-0.099
1	101	0.00	0.00	470.00	470.00	58	0.075	0.093	0.006	0.024	0.085	0.104	0.017	0.035	0.099	0.102	0.066	0.070	0.160	0.163	0.127	**0.130**	-0.035	-0.017	-0.104	-0.085	-0.024	-0.006	-0.093	-0.075	-0.130	-0.127	-0.163	-0.160	-0.070	-0.066	-0.102	-0.099
5	105	0.00	0.00	470.00	470.00	59	-0.006	-0.024	-0.075	-0.093	-0.017	-0.035	-0.085	-0.104	0.130	0.127	0.163	0.160	0.070	0.066	0.102	0.099	**0.104**	0.085	0.035	0.017	0.093	0.075	0.024	0.006	-0.099	-0.102	-0.066	-0.070	-0.160	-0.163	-0.127	-0.130
5	105	0.00	0.00	470.00	470.00	60	-0.006	-0.024	-0.075	-0.093	-0.017	-0.035	-0.085	-0.104	0.130	0.127	0.163	0.160	0.070	0.066	0.102	0.099	0.104	**0.085**	0.035	0.017	0.093	0.075	0.024	0.006	-0.099	-0.102	-0.066	-0.070	-0.160	-0.163	-0.127	-0.130
1	101	0.00	0.00	470.00	470.00	61	0.075	0.093	0.006	0.024	0.085	0.104	0.017	0.035	0.099	0.102	0.066	0.070	0.160	0.163	0.127	0.130	-0.035	-0.017	**-0.104**	-0.085	-0.024	-0.006	-0.093	-0.075	-0.130	-0.127	-0.163	-0.160	-0.070	-0.066	-0.102	-0.099
1	101	0.00	0.00	470.00	470.00	62	0.075	0.093	0.006	0.024	0.085	0.104	0.017	0.035	0.099	0.102	0.066	0.070	0.160	0.163	0.127	0.130	-0.035	-0.017	-0.104	**-0.085**	-0.024	-0.006	-0.093	-0.075	-0.130	-0.127	-0.163	-0.160	-0.070	-0.066	-0.102	-0.099
5	105	0.00	0.00	470.00	470.00	63	-0.006	-0.024	-0.075	-0.093	-0.017	-0.035	-0.085	-0.104	0.130	0.127	0.163	0.160	0.070	0.066	0.102	0.099	0.104	0.085	0.035	0.017	**0.093**	0.075	0.024	0.006	-0.099	-0.102	-0.066	-0.070	-0.160	-0.163	-0.127	-0.130
5	105	0.00	0.00	470.00	470.00	64	-0.006	-0.024	-0.075	-0.093	-0.017	-0.035	-0.085	-0.104	0.130	0.127	0.163	0.160	0.070	0.066	0.102	0.099	0.104	0.085	0.035	0.017	0.093	**0.075**	0.024	0.006	-0.099	-0.102	-0.066	-0.070	-0.160	-0.163	-0.127	-0.130
1	101	0.00	0.00	470.00	470.00	65	0.075	0.093	0.006	0.024	0.085	0.104	0.017	0.035	0.099	0.102	0.066	0.070	0.160	0.163	0.127	0.130	-0.035	-0.017	-0.104	-0.085	-0.024	-0.006	**-0.093**	-0.075	-0.130	-0.127	-0.163	-0.160	-0.070	-0.066	-0.102	-0.099
1	101	0.00	0.00	470.00	470.00	66	0.075	0.093	0.006	0.024	0.085	0.104	0.017	0.035	0.099	0.102	0.066	0.070	0.160	0.163	0.127	0.130	-0.035	-0.017	-0.104	-0.085	-0.024	-0.006	-0.093	**-0.075**	-0.130	-0.127	-0.163	-0.160	-0.070	-0.066	-0.102	-0.099
1	101	0.00	0.00	470.00	470.00	67	0.075	0.093	0.006	0.024	0.085	0.104	0.017	0.035	0.099	0.102	0.066	0.070	0.160	0.163	0.127	0.130	-0.035	-0.017	-0.104	-0.085	-0.024	-0.006	-0.093	-0.075	**-0.130**	-0.127	-0.163	-0.160	-0.070	-0.066	-0.102	-0.099
1	101	0.00	0.00	470.00	470.00	68	0.075	0.093	0.006	0.024	0.085	0.104	0.017	0.035	0.099	0.102	0.066	0.070	0.160	0.163	0.127	0.130	-0.035	-0.017	-0.104	-0.085	-0.024	-0.006	-0.093	-0.075	-0.130	**-0.127**	-0.163	-0.160	-0.070	-0.066	-0.102	-0.099

1	101	0.00	0.00	470.00	470.00	69	0.075	0.093	0.006	0.024	0.085	0.104	0.017	0.035	0.099	0.102	0.066	0.070	0.160	0.163	0.127	0.130	-0.035	-0.017	-0.104	-0.085	-0.024	-0.006	-0.093	-0.075	-0.130	-0.127	**-0.163**	-0.160	-0.070	-0.066	-0.102	-0.099
1	101	0.00	0.00	470.00	470.00	70	0.075	0.093	0.006	0.024	0.085	0.104	0.017	0.035	0.099	0.102	0.066	0.070	0.160	0.163	0.127	0.130	-0.035	-0.017	-0.104	-0.085	-0.024	-0.006	-0.093	-0.075	-0.130	-0.127	-0.163	**-0.160**	-0.070	-0.066	-0.102	-0.099
5	105	0.00	0.00	470.00	470.00	71	-0.006	-0.024	-0.075	-0.093	-0.017	-0.035	-0.085	-0.104	0.130	0.127	0.163	0.160	0.070	0.066	0.102	0.099	0.104	0.085	0.035	0.017	0.093	0.075	0.024	0.006	-0.099	-0.102	-0.066	-0.070	**-0.160**	-0.163	-0.127	-0.130
5	105	0.00	0.00	470.00	470.00	72	-0.006	-0.024	-0.075	-0.093	-0.017	-0.035	-0.085	-0.104	0.130	0.127	0.163	0.160	0.070	0.066	0.102	0.099	0.104	0.085	0.035	0.017	0.093	0.075	0.024	0.006	-0.099	-0.102	-0.066	-0.070	-0.160	**-0.163**	-0.127	-0.130
5	105	0.00	0.00	470.00	470.00	73	-0.006	-0.024	-0.075	-0.093	-0.017	-0.035	-0.085	-0.104	0.130	0.127	0.163	0.160	0.070	0.066	0.102	0.099	0.104	0.085	0.035	0.017	0.093	0.075	0.024	0.006	-0.099	-0.102	-0.066	-0.070	-0.160	-0.163	**-0.127**	-0.130
5	105	0.00	0.00	470.00	470.00	74	-0.006	-0.024	-0.075	-0.093	-0.017	-0.035	-0.085	-0.104	0.130	0.127	0.163	0.160	0.070	0.066	0.102	0.099	0.104	0.085	0.035	0.017	0.093	0.075	0.024	0.006	-0.099	-0.102	-0.066	-0.070	-0.160	-0.163	-0.127	**-0.130**

du/H x 1000 Max in direzione U_z

Nodi	dx [cm]	dy [cm]	dz [cm]	L [cm]	Comb.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
11	111	0.00	0.00	470.00	470.00	43	**-0.032**	-0.033	-0.027	-0.028	-0.005	-0.007	-0.000	-0.002	-0.015	-0.007	-0.005	0.003	-0.019	-0.011	-0.009	-0.001	0.002	0.000	0.007	0.005	0.028	0.027	0.033	0.032	0.001	0.009	0.011	0.019	-0.003	0.005	0.007	0.015
11	111	0.00	0.00	470.00	470.00	44	-0.032	**-0.033**	-0.027	-0.028	-0.005	-0.007	-0.000	-0.002	-0.015	-0.007	-0.005	0.003	-0.019	-0.011	-0.009	-0.001	0.002	0.000	0.007	0.005	0.028	0.027	0.033	0.032	0.001	0.009	0.011	0.019	-0.003	0.005	0.007	0.015
15	115	0.00	0.00	470.00	470.00	45	0.027	0.028	**0.032**	0.033	0.000	0.002	0.005	0.007	-0.001	-0.009	-0.011	-0.019	0.003	-0.005	-0.007	-0.015	-0.007	-0.005	-0.002	-0.000	-0.033	-0.032	-0.028	-0.027	0.015	0.007	0.005	-0.003	0.019	0.011	0.009	0.001
15	115	0.00	0.00	470.00	470.00	46	0.027	0.028	0.032	**0.033**	0.000	0.002	0.005	0.007	-0.001	-0.009	-0.011	-0.019	0.003	-0.005	-0.007	-0.015	-0.007	-0.005	-0.002	-0.000	-0.033	-0.032	-0.028	-0.027	0.015	0.007	0.005	-0.003	0.019	0.011	0.009	0.001
11	111	0.00	0.00	470.00	470.00	47	-0.032	-0.033	-0.027	-0.028	**-0.005**	-0.007	-0.000	-0.002	-0.015	-0.007	-0.005	0.003	-0.019	-0.011	-0.009	-0.001	0.002	0.000	0.007	0.005	0.028	0.027	0.033	0.032	0.001	0.009	0.011	0.019	-0.003	0.005	0.007	0.015
11	111	0.00	0.00	470.00	470.00	48	-0.032	-0.033	-0.027	-0.028	-0.005	**-0.007**	-0.000	-0.002	-0.015	-0.007	-0.005	0.003	-0.019	-0.011	-0.009	-0.001	0.002	0.000	0.007	0.005	0.028	0.027	0.033	0.032	0.001	0.009	0.011	0.019	-0.003	0.005	0.007	0.015
15	115	0.00	0.00	470.00	470.00	49	0.027	0.028	0.032	0.033	0.000	0.002	**0.005**	0.007	-0.001	-0.009	-0.011	-0.019	0.003	-0.005	-0.007	-0.015	-0.007	-0.005	-0.002	-0.000	-0.033	-0.032	-0.028	-0.027	0.015	0.007	0.005	-0.003	0.019	0.011	0.009	0.001
15	115	0.00	0.00	470.00	470.00	50	0.027	0.028	0.032	0.033	0.000	0.002	0.005	**0.007**	-0.001	-0.009	-0.011	-0.019	0.003	-0.005	-0.007	-0.015	-0.007	-0.005	-0.002	-0.000	-0.033	-0.032	-0.028	-0.027	0.015	0.007	0.005	-0.003	0.019	0.011	0.009	0.001
11	111	0.00	0.00	470.00	470.00	51	-0.032	-0.033	-0.027	-0.028	-0.005	-0.007	-0.000	-0.002	**-0.015**	-0.007	-0.005	0.003	-0.019	-0.011	-0.009	-0.001	0.002	0.000	0.007	0.005	0.028	0.027	0.033	0.032	0.001	0.009	0.011	0.019	-0.003	0.005	0.007	0.015
15	115	0.00	0.00	470.00	470.00	52	0.027	0.028	0.032	0.033	0.000	0.002	0.005	0.007	-0.001	**-0.009**	-0.011	-0.019	0.003	-0.005	-0.007	-0.015	-0.007	-0.005	-0.002	-0.000	-0.033	-0.032	-0.028	-0.027	0.015	0.007	0.005	-0.003	0.019	0.011	0.009	0.001
15	115	0.00	0.00	470.00	470.00	53	0.027	0.028	0.032	0.033	0.000	0.002	0.005	0.007	-0.001	-0.009	**-0.011**	-0.019	0.003	-0.005	-0.007	-0.015	-0.007	-0.005	-0.002	-0.000	-0.033	-0.032	-0.028	-0.027	0.015	0.007	0.005	-0.003	0.019	0.011	0.009	0.001
15	115	0.00	0.00	470.00	470.00	54	0.027	0.028	0.032	0.033	0.000	0.002	0.005	0.007	-0.001	-0.009	-0.011	**-0.019**	0.003	-0.005	-0.007	-0.015	-0.007	-0.005	-0.002	-0.000	-0.033	-0.032	-0.028	-0.027	0.015	0.007	0.005	-0.003	0.019	0.011	0.009	0.001
11	111	0.00	0.00	470.00	470.00	55	-0.032	-0.033	-0.027	-0.028	-0.005	-0.007	-0.000	-0.002	-0.015	-0.007	-0.005	0.003	**-0.019**	-0.011	-0.009	-0.001	0.002	0.000	0.007	0.005	0.028	0.027	0.033	0.032	0.001	0.009	0.011	0.019	-0.003	0.005	0.007	0.015
11	111	0.00	0.00	470.00	470.00	56	-0.032	-0.033	-0.027	-0.028	-0.005	-0.007	-0.000	-0.002	-0.015	-0.007	-0.005	0.003	-0.019	**-0.011**	-0.009	-0.001	0.002	0.000	0.007	0.005	0.028	0.027	0.033	0.032	0.001	0.009	0.011	0.019	-0.003	0.005	0.007	0.015
11	111	0.00	0.00	470.00	470.00	57	-0.032	-0.033	-0.027	-0.028	-0.005	-0.007	-0.000	-0.002	-0.015	-0.007	-0.005	0.003	-0.019	-0.011	**-0.009**	-0.001	0.002	0.000	0.007	0.005	0.028	0.027	0.033	0.032	0.001	0.009	0.011	0.019	-0.003	0.005	0.007	0.015
15	115	0.00	0.00	470.00	470.00	58	0.027	0.028	0.032	0.033	0.000	0.002	0.005	0.007	-0.001	-0.009	-0.011	-0.019	0.003	-0.005	-0.007	**-0.015**	-0.007	-0.005	-0.002	-0.000	-0.033	-0.032	-0.028	-0.027	0.015	0.007	0.005	-0.003	0.019	0.011	0.009	0.001
15	115	0.00	0.00	470.00	470.00	59	0.027	0.028	0.032	0.033	0.000	0.002	0.005	0.007	-0.001	-0.009	-0.011	-0.019	0.003	-0.005	-0.007	-0.015	**-0.007**	-0.005	-0.002	-0.000	-0.033	-0.032	-0.028	-0.027	0.015	0.007	0.005	-0.003	0.019	0.011	0.009	0.001
15	115	0.00	0.00	470.00	470.00	60	0.027	0.028	0.032	0.033	0.000	0.002	0.005	0.007	-0.001	-0.009	-0.011	-0.019	0.003	-0.005	-0.007	-0.015	-0.007	**-0.005**	-0.002	-0.000	-0.033	-0.032	-0.028	-0.027	0.015	0.007	0.005	-0.003	0.019	0.011	0.009	0.001
11	111	0.00	0.00	470.00	470.00	61	-0.032	-0.033	-0.027	-0.028	-0.005	-0.007	-0.000	-0.002	-0.015	-0.007	-0.005	0.003	-0.019	-0.011	-0.009	-0.001	0.002	0.000	**0.007**	0.005	0.028	0.027	0.033	0.032	0.001	0.009	0.011	0.019	-0.003	0.005	0.007	0.015
11	111	0.00	0.00	470.00	470.00	62	-0.032	-0.033	-0.027	-0.028	-0.005	-0.007	-0.000	-0.002	-0.015	-0.007	-0.005	0.003	-0.019	-0.011	-0.009	-0.001	0.002	0.000	0.007	**0.005**	0.028	0.027	0.033	0.032	0.001	0.009	0.011	0.019	-0.003	0.005	0.007	0.015
15	115	0.00	0.00	470.00	470.00	63	0.027	0.028	0.032	0.033	0.000	0.002	0.005	0.007	-0.001	-0.009	-0.011	-0.019	0.003	-0.005	-0.007	-0.015	-0.007	-0.005	-0.002	-0.000	**-0.033**	-0.032	-0.028	-0.027	0.015	0.007	0.005	-0.003	0.019	0.011	0.009	0.001
15	115	0.00	0.00	470.00	470.00	64	0.027	0.028	0.032	0.033	0.000	0.002	0.005	0.007	-0.001	-0.009	-0.011	-0.019	0.003	-0.005	-0.007	-0.015	-0.007	-0.005	-0.002	-0.000	-0.033	**-0.032**	-0.028	-0.027	0.015	0.007	0.005	-0.003	0.019	0.011	0.009	0.001
11	111	0.00	0.00	470.00	470.00	65	-0.032	-0.033	-0.027	-0.028	-0.005	-0.007	-0.000	-0.002	-0.015	-0.007	-0.005	0.003	-0.019	-0.011	-0.009	-0.001	0.002	0.000	0.007	0.005	0.028	0.027	**0.033**	0.032	0.001	0.009	0.011	0.019	-0.003	0.005	0.007	0.015
11	111	0.00	0.00	470.00	470.00	66	-0.032	-0.033	-0.027	-0.028	-0.005	-0.007	-0.000	-0.002	-0.015	-0.007	-0.005	0.003	-0.019	-0.011	-0.009	-0.001	0.002	0.000	0.007	0.005	0.028	0.027	0.033	**0.032**	0.001	0.009	0.011	0.019	-0.003	0.005	0.007	0.015
15	115	0.00	0.00	470.00	470.00	67	0.027	0.028	0.032	0.033	0.000	0.002	0.005	0.007	-0.001	-0.009	-0.011	-0.019	0.003	-0.005	-0.007	-0.015	-0.007	-0.005	-0.002	-0.000	-0.033	-0.032	-0.028	-0.027	**0.015**	0.007	0.005	-0.003	0.019	0.011	0.009	0.001
11	111	0.00	0.00	470.00	470.00	68	-0.032	-0.033	-0.027	-0.028	-0.005	-0.007	-0.000	-0.002	-0.015	-0.007	-0.005	0.003	-0.019	-0.011	-0.009	-0.001	0.002	0.000	0.007	0.005	0.028	0.027	0.033	0.032	0.001	**0.009**	0.011	0.019	-0.003	0.005	0.007	0.015
11	111	0.00	0.00	470.00	470.00	69	-0.032	-0.033	-0.027	-0.028	-0.005	-0.007	-0.000	-0.002	-0.015	-0.007	-0.005	0.003	-0.019	-0.011	-0.009	-0.001	0.002	0.000	0.007	0.005	0.028	0.027	0.033	0.032	0.001	0.009	**0.011**	0.019	-0.003	0.005	0.007	0.015
11	111	0.00	0.00	470.00	470.00	70	-0.032	-0.033	-0.027	-0.028	-0.005	-0.007	-0.000	-0.002	-0.015	-0.007	-0.005	0.003	-0.019	-0.011	-0.009	-0.001	0.002	0.000	0.007	0.005	0.028	0.027	0.033	0.032	0.001	0.009	0.011	**0.019**	-0.003	0.005	0.007	0.015
15	115	0.00	0.00	470.00	470.00	71	0.027	0.028	0.032	0.033	0.000	0.002	0.005	0.007	-0.001	-0.009	-0.011	-0.019	0.003	-0.005	-0.007	-0.015	-0.007	-0.005	-0.002	-0.000	-0.033	-0.032	-0.028	-0.027	0.015	0.007	0.005	-0.003	**0.019**	0.011	0.009	0.001
15	115	0.00	0.00	470.00	470.00	72	0.027	0.028	0.032	0.033	0.000	0.002	0.005	0.007	-0.001	-0.009	-0.011	-0.019	0.003	-0.005	-0.007	-0.015	-0.007	-0.005	-0.002	-0.000	-0.033	-0.032	-0.028	-0.027	0.015	0.007	0.005	-0.003	0.019	**0.011**	0.009	0.001
15	115	0.00	0.00	470.00	470.00	73	0.027	0.028	0.032	0.033	0.000	0.002	0.005	0.007	-0.001	-0.009	-0.011	-0.019	0.003	-0.005	-0.007	-0.015	-0.007	-0.005	-0.002	-0.000	-0.033	-0.032	-0.028	-0.027	0.015	0.007	0.005	-0.003	0.019	0.011	**0.009**	0.001
11	111	0.00	0.00	470.00	470.00	74	-0.032	-0.033	-0.027	-0.028	-0.005	-0.007	-0.000	-0.002	-0.015	-0.007	-0.005	0.003	-0.019	-0.011	-0.009	-0.001	0.002	0.000	0.007	0.005	0.028	0.027	0.033	0.032	0.001	0.009	0.011	0.019	-0.003	0.005	0.007	**0.015**

du/H x 1000 Max in direzione $|U_{xyz}|$

Nodi	dx [cm]	dy [cm]	dz [cm]	L [cm]	Comb.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
11 111	0.00	0.00	470.00	470.00	43	**0.089**	0.114	0.046	0.069	0.097	0.124	0.049	0.076	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132	0.076	0.049	0.124	0.097	0.069	0.046	0.114	0.089	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103
11 111	0.00	0.00	470.00	470.00	44	0.089	**0.114**	0.046	0.069	0.097	0.124	0.049	0.076	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132	0.076	0.049	0.124	0.097	0.069	0.046	0.114	0.089	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103
15 115	0.00	0.00	470.00	470.00	45	0.046	0.069	**0.089**	0.114	0.049	0.076	0.097	0.124	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103	0.124	0.097	0.076	0.049	0.114	0.089	0.069	0.046	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132
15 115	0.00	0.00	470.00	470.00	46	0.046	0.069	0.089	**0.114**	0.049	0.076	0.097	0.124	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103	0.124	0.097	0.076	0.049	0.114	0.089	0.069	0.046	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132
11 111	0.00	0.00	470.00	470.00	47	0.089	0.114	0.046	0.069	**0.097**	0.124	0.049	0.076	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132	0.076	0.049	0.124	0.097	0.069	0.046	0.114	0.089	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103
11 111	0.00	0.00	470.00	470.00	48	0.089	0.114	0.046	0.069	0.097	**0.124**	0.049	0.076	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132	0.076	0.049	0.124	0.097	0.069	0.046	0.114	0.089	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103
15 115	0.00	0.00	470.00	470.00	49	0.046	0.069	0.089	0.114	0.049	0.076	**0.097**	0.124	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103	0.124	0.097	0.076	0.049	0.114	0.089	0.069	0.046	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132
15 115	0.00	0.00	470.00	470.00	50	0.046	0.069	0.089	0.114	0.049	0.076	0.097	**0.124**	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103	0.124	0.097	0.076	0.049	0.114	0.089	0.069	0.046	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132
15 115	0.00	0.00	470.00	470.00	51	0.046	0.069	0.089	0.114	0.049	0.076	0.097	0.124	**0.132**	0.128	0.171	0.168	0.086	0.085	0.104	0.103	0.124	0.097	0.076	0.049	0.114	0.089	0.069	0.046	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132
15 115	0.00	0.00	470.00	470.00	52	0.046	0.069	0.089	0.114	0.049	0.076	0.097	0.124	0.132	**0.128**	0.171	0.168	0.086	0.085	0.104	0.103	0.124	0.097	0.076	0.049	0.114	0.089	0.069	0.046	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132
15 115	0.00	0.00	470.00	470.00	53	0.046	0.069	0.089	0.114	0.049	0.076	0.097	0.124	0.132	0.128	**0.171**	0.168	0.086	0.085	0.104	0.103	0.124	0.097	0.076	0.049	0.114	0.089	0.069	0.046	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132
15 115	0.00	0.00	470.00	470.00	54	0.046	0.069	0.089	0.114	0.049	0.076	0.097	0.124	0.132	0.128	0.171	**0.168**	0.086	0.085	0.104	0.103	0.124	0.097	0.076	0.049	0.114	0.089	0.069	0.046	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132
11 111	0.00	0.00	470.00	470.00	55	0.089	0.114	0.046	0.069	0.097	0.124	0.049	0.076	0.103	0.104	0.085	0.086	**0.168**	0.171	0.128	0.132	0.076	0.049	0.124	0.097	0.069	0.046	0.114	0.089	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103
11 111	0.00	0.00	470.00	470.00	56	0.089	0.114	0.046	0.069	0.097	0.124	0.049	0.076	0.103	0.104	0.085	0.086	0.168	**0.171**	0.128	0.132	0.076	0.049	0.124	0.097	0.069	0.046	0.114	0.089	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103
11 111	0.00	0.00	470.00	470.00	57	0.089	0.114	0.046	0.069	0.097	0.124	0.049	0.076	0.103	0.104	0.085	0.086	0.168	0.171	**0.128**	0.132	0.076	0.049	0.124	0.097	0.069	0.046	0.114	0.089	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103
11 111	0.00	0.00	470.00	470.00	58	0.089	0.114	0.046	0.069	0.097	0.124	0.049	0.076	0.103	0.104	0.085	0.086	0.168	0.171	0.128	**0.132**	0.076	0.049	0.124	0.097	0.069	0.046	0.114	0.089	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103
15 115	0.00	0.00	470.00	470.00	59	0.046	0.069	0.089	0.114	0.049	0.076	0.097	0.124	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103	**0.124**	0.097	0.076	0.049	0.114	0.089	0.069	0.046	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132
15 115	0.00	0.00	470.00	470.00	60	0.046	0.069	0.089	0.114	0.049	0.076	0.097	0.124	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103	0.124	**0.097**	0.076	0.049	0.114	0.089	0.069	0.046	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132
11 111	0.00	0.00	470.00	470.00	61	0.089	0.114	0.046	0.069	0.097	0.124	0.049	0.076	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132	0.076	0.049	**0.124**	0.097	0.069	0.046	0.114	0.089	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103
11 111	0.00	0.00	470.00	470.00	62	0.089	0.114	0.046	0.069	0.097	0.124	0.049	0.076	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132	0.076	0.049	0.124	**0.097**	0.069	0.046	0.114	0.089	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103
15 115	0.00	0.00	470.00	470.00	63	0.046	0.069	0.089	0.114	0.049	0.076	0.097	0.124	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103	0.124	0.097	0.076	0.049	**0.114**	0.089	0.069	0.046	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132
15 115	0.00	0.00	470.00	470.00	64	0.046	0.069	0.089	0.114	0.049	0.076	0.097	0.124	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103	0.124	0.097	0.076	0.049	0.114	**0.089**	0.069	0.046	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132
11 111	0.00	0.00	470.00	470.00	65	0.089	0.114	0.046	0.069	0.097	0.124	0.049	0.076	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132	0.076	0.049	0.124	0.097	0.069	0.046	**0.114**	0.089	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103
11 111	0.00	0.00	470.00	470.00	66	0.089	0.114	0.046	0.069	0.097	0.124	0.049	0.076	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132	0.076	0.049	0.124	0.097	0.069	0.046	0.114	**0.089**	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103
11 111	0.00	0.00	470.00	470.00	67	0.089	0.114	0.046	0.069	0.097	0.124	0.049	0.076	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132	0.076	0.049	0.124	0.097	0.069	0.046	0.114	0.089	**0.132**	0.128	0.171	0.168	0.086	0.085	0.104	0.103
11 111	0.00	0.00	470.00	470.00	68	0.089	0.114	0.046	0.069	0.097	0.124	0.049	0.076	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132	0.076	0.049	0.124	0.097	0.069	0.046	0.114	0.089	0.132	**0.128**	0.171	0.168	0.086	0.085	0.104	0.103
11 111	0.00	0.00	470.00	470.00	69	0.089	0.114	0.046	0.069	0.097	0.124	0.049	0.076	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132	0.076	0.049	0.124	0.097	0.069	0.046	0.114	0.089	0.132	0.128	**0.171**	0.168	0.086	0.085	0.104	0.103
11 111	0.00	0.00	470.00	470.00	70	0.089	0.114	0.046	0.069	0.097	0.124	0.049	0.076	0.103	0.104	0.085	0.086	0.168	0.171	0.128	0.132	0.076	0.049	0.124	0.097	0.069	0.046	0.114	0.089	0.132	0.128	0.171	**0.168**	0.086	0.085	0.104	0.103
15 115	0.00	0.00	470.00	470.00	71	0.046	0.069	0.089	0.114	0.049	0.076	0.097	0.124	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103	0.124	0.097	0.076	0.049	0.114	0.089	0.069	0.046	0.103	0.104	0.085	0.086	**0.168**	0.171	0.128	0.132
15 115	0.00	0.00	470.00	470.00	72	0.046	0.069	0.089	0.114	0.049	0.076	0.097	0.124	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103	0.124	0.097	0.076	0.049	0.114	0.089	0.069	0.046	0.103	0.104	0.085	0.086	0.168	**0.171**	0.128	0.132
15 115	0.00	0.00	470.00	470.00	73	0.046	0.069	0.089	0.114	0.049	0.076	0.097	0.124	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103	0.124	0.097	0.076	0.049	0.114	0.089	0.069	0.046	0.103	0.104	0.085	0.086	0.168	0.171	**0.128**	0.132
15 115	0.00	0.00	470.00	470.00	74	0.046	0.069	0.089	0.114	0.049	0.076	0.097	0.124	0.132	0.128	0.171	0.168	0.086	0.085	0.104	0.103	0.124	0.097	0.076	0.049	0.114	0.089	0.069	0.046	0.103	0.104	0.085	0.086	0.168	0.171	0.128	**0.132**

Verifiche pali

Modalità di verifica

Il comportamento del palo è caratterizzato definendo il suo funzionamento per attrito laterale, resistenza di punta e rigidezza trasversale.

E' possibile tenere conto dell'efficienza del palo isolato o del gruppo di pali, sia alle azioni orizzontali che verticali.

E' possibile tenere conto della presenza di uno zoccolo rigido in sommità al palo o al gruppo di pali. Tale elemento influenza unicamente l'entità dei momenti di trasporto.

Le coordinate del centro del gruppo di pali possono essere coincidenti con il baricentro geometrico dei pali o fissate dall'utente.

La distanza minima di interferenza fra pali è misurata fra i centri ed è stabilita dall'Utente.

L'angolo di carico flessionale definisce la semiampiezza del cono di carico del palo nella direzione dello spostamento. Se non vi sono pali nel cono di carico a distanza inferiore alla distanza di interferenza minima il palo viene considerato isolato.

Viene condotta la verifica a presso/tensoflessione deviata dei pali in c.a. La verifica viene condotta in ciascuno dei conci in cui è diviso il fusto del palo.

Non viene condotta la verifica a taglio.

Dati Generali

- Lunghezza dei pali 9.00 [m]
- Altezza dello zoccolo di fondazione 0.50 [m]
- Centro della palificata 0.00 0.00 [m]
- Efficienza assiale dei pali esterni 1
- Efficienza assiale dei pali interni 1
- Efficienza flessionale dei pali esterni 1
- Efficienza flessionale dei pali interni 1
- Angolo di carico flessionale 90.00 [°]
- Distanza d'interazione flessionale 3.00 [m]

Sezione Circolare PALO FI 60 D=60 [cm]

- D 60 [cm]
- Circonferenza 188 [cm]
- Area 2827.43 [cm²]
- J 636173 [cm^4]
- Jt 1272345 [cm^4]
- X 1.00

Materiale

- E 300000.0 [kg/cm²]
- v 0.12

Dati relativi al terreno:

Dati per il calcolo della rigidezza assiale:

Variazione delle costanti di Winkler assiali con la profondita'

z [m]	kv [kg/cm³]
0.00	2.0

NON c'e' Rigidezza per punta

Dati per il calcolo della rigidezza flessionale:

Variazione delle costanti di Winkler laterali con la profondita'

z [m]	kh [kg/cm³]
0.00	2.0

Dati relativi al progetto-verifica delle armature:

Calcestruzzo *C 25/30* :

- fcd 141.7 [kg/cm²]

Acciaio *B 450 C* :

- fyd 3913.0 [kg/cm²]

Criterio di verifica:

- Copriferro : 7.50 [cm]
- Numero minimo di barre : 15
- Numero massimo di barre : 20
- Diametri [mm] : 16

Geometria palificata:

Palo	x [m]	y [m]	Inclinazione xy [°]	Inclinazione vert. [°] [°]
1	0.00	0.00	0.00	0.00

Azioni di verifica:

Cond.	Commento	x [m]	y [m]	Px [kN]	Py [kN]	Pz [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
1	nodo 15 (1)			-2.64	2.91	-306.29	1148.1	757.3	28.5
2	nodo 15 (2)			-3.40	2.74	-317.35	1076.3	982.1	29.6
3	nodo 15 (3)			1.73	3.24	-198.70	895.1	-531.2	18.6
4	nodo 15 (4)			7.07	20.61	-293.70	3324.1	-833.5	-124.9
5	nodo 15 (5)			9.35	17.11	-278.99	2904.0	-1385.6	-202.9
6	nodo 15 (6)			12.54	9.74	-217.14	2151.3	-2157.5	-136.1
7	nodo 15 (7)			14.82	6.23	-202.42	1731.2	-2709.6	-214.0
8	nodo 15 (8)			8.66	20.71	-201.05	3207.3	-1174.9	-140.4
9	nodo 15 (9)			10.94	17.20	-186.34	2787.3	-1727.0	-218.3
10	nodo 15 (10)			14.13	9.83	-124.49	2034.5	-2498.9	-151.5
11	nodo 15 (11)			16.41	6.32	-109.78	1614.5	-3050.9	-229.5
12	nodo 15 (12)			-11.00	29.31	-368.28	3966.5	2984.4	110.8
13	nodo 15 (13)			-10.52	29.34	-340.49	3931.5	2882.0	106.2
14	nodo 15 (14)			-19.20	22.35	-368.74	2959.4	4483.2	228.4
15	nodo 15 (15)			-18.72	22.37	-340.95	2924.4	4380.8	223.8
16	nodo 15 (16)			-3.38	17.61	-319.25	2566.4	1144.2	-149.1
17	nodo 15 (17)			-2.90	17.64	-291.46	2531.4	1041.8	-153.7
18	nodo 15 (18)			-11.58	10.65	-319.70	1559.3	2643.1	-31.5
19	nodo 15 (19)			-11.11	10.68	-291.91	1524.3	2540.7	-36.1
20	nodo 15 (20)			-20.27	-2.59	-295.21	-32.9	4162.7	267.0
21	nodo 15 (21)			-17.99	-6.10	-280.50	-453.0	3610.6	189.0
22	nodo 15 (22)			-14.80	-13.47	-218.65	-1205.7	2838.7	255.8
23	nodo 15 (23)			-12.52	-16.98	-203.94	-1625.8	2286.6	177.9
24	nodo 15 (24)			-18.68	-2.50	-202.57	-149.7	3821.3	251.5
25	nodo 15 (25)			-16.40	-6.01	-187.86	-569.7	3269.2	173.6
26	nodo 15 (26)			-13.21	-13.38	-126.01	-1322.5	2497.3	240.4
27	nodo 15 (27)			-10.93	-16.89	-111.30	-1742.5	1945.2	162.4
28	nodo 15 (28)			7.25	-6.95	-113.08	57.3	-1428.9	73.6
29	nodo 15 (29)			7.72	-6.92	-85.29	22.3	-1531.4	69.0
30	nodo 15 (30)			-0.96	-13.91	-113.54	-949.8	69.9	191.2
31	nodo 15 (31)			-0.48	-13.89	-85.74	-984.8	-32.5	186.6
32	nodo 15 (32)			14.86	-18.65	-64.05	-1342.9	-3269.1	-186.2
33	nodo 15 (33)			15.34	-18.62	-36.25	-1377.9	-3371.5	-190.9
34	nodo 15 (34)			6.66	-25.61	-64.50	-2350.0	-1770.2	-68.7

35	nodo 15 (35)	7.14	-25.58	-36.71	-2385.0	-1872.7	-73.3
36	nodo 15 (36)	-2.25	1.90	-215.87	787.8	649.9	20.1
37	nodo 15 (37)	-2.76	1.78	-223.24	739.9	799.8	20.8
38	nodo 15 (38)	-2.53	1.83	-220.04	764.6	733.7	20.5
39	nodo 15 (39)	-1.84	1.94	-205.50	813.2	527.9	19.0
40	nodo 15 (40)	-2.13	1.82	-205.44	771.6	615.8	19.0
41	nodo 15 (41)	-1.93	1.86	-202.50	790.8	555.9	18.8
42	nodo 15 (42)	-1.93	1.86	-202.50	790.8	555.9	18.8
43	nodo 14 (1)	-1.32	11.13	-278.02	3697.1	374.7	10.9
44	nodo 14 (2)	-1.81	11.21	-280.60	3704.4	521.7	11.6
45	nodo 14 (3)	1.74	8.89	-221.04	2640.7	-528.4	6.8
46	nodo 14 (4)	9.98	20.03	-182.60	4282.3	-1682.4	-138.7
47	nodo 14 (5)	11.93	18.26	-176.63	4072.3	-2207.7	-216.8
48	nodo 14 (6)	15.46	7.84	-152.04	2621.7	-2927.0	-146.4
49	nodo 14 (7)	17.41	6.08	-146.07	2411.7	-3452.3	-224.4
50	nodo 14 (8)	11.70	20.06	-181.03	4218.5	-2064.5	-154.3
51	nodo 14 (9)	13.65	18.29	-175.06	4008.5	-2589.8	-232.4
52	nodo 14 (10)	17.18	7.87	-150.48	2557.9	-3309.0	-162.0
53	nodo 14 (11)	19.13	6.10	-144.51	2347.9	-3834.4	-240.0
54	nodo 14 (12)	-9.00	32.27	-237.15	5849.7	2387.8	93.3
55	nodo 14 (13)	-8.48	32.28	-236.68	5830.6	2273.1	88.6
56	nodo 14 (14)	-18.35	28.79	-247.86	5341.8	4221.2	211.1
57	nodo 14 (15)	-17.84	28.80	-247.39	5322.6	4106.6	206.5
58	nodo 14 (16)	-2.50	26.37	-217.26	5149.7	636.7	-166.9
59	nodo 14 (17)	-1.98	26.38	-216.79	5130.6	522.1	-171.5
60	nodo 14 (18)	-11.85	22.89	-227.97	4641.8	2470.1	-49.0
61	nodo 14 (19)	-11.34	22.90	-227.50	4622.6	2355.5	-53.7
62	nodo 14 (20)	-21.20	8.44	-218.30	2589.2	4429.0	254.1
63	nodo 14 (21)	-19.25	6.68	-212.33	2379.2	3903.7	176.1
64	nodo 14 (22)	-15.72	-3.74	-187.74	928.6	3184.4	246.5
65	nodo 14 (23)	-13.77	-5.51	-181.77	718.6	2659.1	168.5
66	nodo 14 (24)	-19.48	8.47	-216.73	2525.3	4047.0	238.5
67	nodo 14 (25)	-17.53	6.70	-210.76	2315.3	3521.6	160.5
68	nodo 14 (26)	-14.01	-3.72	-186.18	864.7	2802.4	230.9
69	nodo 14 (27)	-12.06	-5.49	-180.21	654.7	2277.1	152.9
70	nodo 14 (28)	9.27	-8.36	-135.30	314.4	-1760.8	67.8
71	nodo 14 (29)	9.78	-8.35	-134.84	295.3	-1875.5	63.1
72	nodo 14 (30)	-0.09	-11.83	-146.01	-193.5	72.6	185.7
73	nodo 14 (31)	0.43	-11.83	-145.54	-212.7	-42.0	181.0
74	nodo 14 (32)	15.76	-14.26	-115.41	-385.6	-3511.9	-192.3
75	nodo 14 (33)	16.28	-14.25	-114.94	-404.7	-3626.5	-197.0
76	nodo 14 (34)	6.41	-17.73	-126.12	-893.5	-1678.5	-74.5
77	nodo 14 (35)	6.92	-17.73	-125.65	-912.7	-1793.1	-79.1
78	nodo 14 (36)	-1.22	7.65	-191.35	2574.1	351.0	7.7
79	nodo 14 (37)	-1.55	7.71	-193.06	2578.9	449.0	8.2
80	nodo 14 (38)	-1.41	7.68	-192.34	2580.7	406.8	8.0
81	nodo 14 (39)	-0.96	7.44	-185.52	2518.9	275.2	7.2
82	nodo 14 (40)	-1.17	7.29	-182.09	2470.5	336.5	7.3

83	nodo 14 (41)	-1.04	7.27	-181.40	2468.5	297.3	7.1
84	nodo 14 (42)	-1.04	7.27	-181.40	2468.5	297.3	7.1
85	nodo 13 (1)	-0.00	12.93	-272.55	4262.7	0.0	0.0
86	nodo 13 (2)	-0.00	13.07	-272.19	4291.4	0.0	0.0
87	nodo 13 (3)	-0.00	10.07	-233.68	3011.2	0.0	0.0
88	nodo 13 (4)	11.87	14.80	-183.15	3762.5	-2218.3	-149.3
89	nodo 13 (5)	16.20	14.80	-183.15	3762.5	-3054.7	-227.0
90	nodo 13 (6)	11.87	2.12	-170.27	1920.1	-2218.3	-149.3
91	nodo 13 (7)	16.20	2.12	-170.27	1920.1	-3054.7	-227.0
92	nodo 13 (8)	13.17	14.80	-183.15	3762.5	-2482.0	-164.9
93	nodo 13 (9)	17.50	14.80	-183.15	3762.5	-3318.4	-242.7
94	nodo 13 (10)	13.17	2.12	-170.27	1920.1	-2482.0	-164.9
95	nodo 13 (11)	17.50	2.12	-170.27	1920.1	-3318.4	-242.7
96	nodo 13 (12)	-3.01	29.60	-198.17	5912.0	603.0	73.1
97	nodo 13 (13)	-2.62	29.60	-198.17	5912.0	523.9	68.4
98	nodo 13 (14)	-11.82	29.60	-198.17	5912.0	2264.0	190.7
99	nodo 13 (15)	-11.43	29.60	-198.17	5912.0	2184.9	186.0
100	nodo 13 (16)	11.43	29.60	-198.17	5912.0	-2184.9	-186.0
101	nodo 13 (17)	11.82	29.60	-198.17	5912.0	-2264.0	-190.7
102	nodo 13 (18)	2.62	29.60	-198.17	5912.0	-523.9	-68.4
103	nodo 13 (19)	3.01	29.60	-198.17	5912.0	-603.0	-73.1
104	nodo 13 (20)	-17.50	14.80	-183.15	3762.5	3318.4	242.7
105	nodo 13 (21)	-13.17	14.80	-183.15	3762.5	2482.0	164.9
106	nodo 13 (22)	-17.50	2.12	-170.27	1920.1	3318.4	242.7
107	nodo 13 (23)	-13.17	2.12	-170.27	1920.1	2482.0	164.9
108	nodo 13 (24)	-16.20	14.80	-183.15	3762.5	3054.7	227.0
109	nodo 13 (25)	-11.87	14.80	-183.15	3762.5	2218.3	149.3
110	nodo 13 (26)	-16.20	2.12	-170.27	1920.1	3054.7	227.0
111	nodo 13 (27)	-11.87	2.12	-170.27	1920.1	2218.3	149.3
112	nodo 13 (28)	-3.01	-12.68	-155.24	-229.3	603.0	73.1
113	nodo 13 (29)	-2.62	-12.68	-155.24	-229.3	523.9	68.4
114	nodo 13 (30)	-11.82	-12.68	-155.24	-229.3	2264.0	190.7
115	nodo 13 (31)	-11.43	-12.68	-155.24	-229.3	2184.9	186.0
116	nodo 13 (32)	11.43	-12.68	-155.24	-229.3	-2184.9	-186.0
117	nodo 13 (33)	11.82	-12.68	-155.24	-229.3	-2264.0	-190.7
118	nodo 13 (34)	2.62	-12.68	-155.24	-229.3	-523.9	-68.4
119	nodo 13 (35)	3.01	-12.68	-155.24	-229.3	-603.0	-73.1
120	nodo 13 (36)	-0.00	8.92	-185.67	2972.2	0.0	0.0
121	nodo 13 (37)	-0.00	9.01	-185.43	2991.4	0.0	0.0
122	nodo 13 (38)	-0.00	8.97	-185.55	2985.7	0.0	0.0
123	nodo 13 (39)	-0.00	8.64	-181.31	2897.2	0.0	0.0
124	nodo 13 (40)	-0.00	8.50	-176.61	2849.0	0.0	0.0
125	nodo 13 (41)	-0.00	8.46	-176.71	2841.3	0.0	0.0
126	nodo 13 (42)	-0.00	8.46	-176.71	2841.3	0.0	0.0
127	nodo 12 (1)	1.32	11.13	-278.02	3697.1	-374.7	-10.9
128	nodo 12 (2)	1.81	11.21	-280.60	3704.4	-521.7	-11.6
129	nodo 12 (3)	-1.74	8.89	-221.04	2640.7	528.4	-6.8
130	nodo 12 (4)	17.53	6.70	-210.76	2315.3	-3521.6	-160.5

131	nodo 12 (5)	19.48	8.47	-216.73	2525.3	-4047.0	-238.5
132	nodo 12 (6)	12.06	-5.49	-180.21	654.7	-2277.1	-152.9
133	nodo 12 (7)	14.01	-3.72	-186.18	864.7	-2802.4	-230.9
134	nodo 12 (8)	19.25	6.68	-212.33	2379.2	-3903.7	-176.1
135	nodo 12 (9)	21.20	8.44	-218.30	2589.2	-4429.0	-254.1
136	nodo 12 (10)	13.77	-5.51	-181.77	718.6	-2659.1	-168.5
137	nodo 12 (11)	15.72	-3.74	-187.74	928.6	-3184.4	-246.5
138	nodo 12 (12)	11.34	22.90	-227.50	4622.6	-2355.5	53.7
139	nodo 12 (13)	11.85	22.89	-227.97	4641.8	-2470.1	49.0
140	nodo 12 (14)	1.98	26.38	-216.79	5130.6	-522.1	171.5
141	nodo 12 (15)	2.50	26.37	-217.26	5149.7	-636.7	166.9
142	nodo 12 (16)	17.84	28.80	-247.39	5322.6	-4106.6	-206.5
143	nodo 12 (17)	18.35	28.79	-247.86	5341.8	-4221.2	-211.1
144	nodo 12 (18)	8.48	32.28	-236.68	5830.6	-2273.1	-88.6
145	nodo 12 (19)	9.00	32.27	-237.15	5849.7	-2387.8	-93.3
146	nodo 12 (20)	-13.65	18.29	-175.06	4008.5	2589.8	232.4
147	nodo 12 (21)	-11.70	20.06	-181.03	4218.5	2064.5	154.3
148	nodo 12 (22)	-19.13	6.10	-144.51	2347.9	3834.3	240.0
149	nodo 12 (23)	-17.18	7.87	-150.48	2557.9	3309.0	162.0
150	nodo 12 (24)	-11.93	18.26	-176.63	4072.3	2207.7	216.8
151	nodo 12 (25)	-9.98	20.03	-182.60	4282.3	1682.4	138.7
152	nodo 12 (26)	-17.41	6.08	-146.07	2411.7	3452.3	224.4
153	nodo 12 (27)	-15.46	7.84	-152.04	2621.7	2927.0	146.4
154	nodo 12 (28)	-6.92	-17.73	-125.65	-912.7	1793.1	79.1
155	nodo 12 (29)	-6.41	-17.73	-126.12	-893.5	1678.5	74.5
156	nodo 12 (30)	-16.28	-14.25	-114.94	-404.7	3626.5	197.0
157	nodo 12 (31)	-15.76	-14.26	-115.41	-385.6	3511.9	192.3
158	nodo 12 (32)	-0.43	-11.83	-145.54	-212.7	42.0	-181.0
159	nodo 12 (33)	0.09	-11.83	-146.01	-193.5	-72.6	-185.7
160	nodo 12 (34)	-9.78	-8.35	-134.84	295.3	1875.5	-63.1
161	nodo 12 (35)	-9.27	-8.36	-135.30	314.4	1760.8	-67.8
162	nodo 12 (36)	1.22	7.65	-191.35	2574.1	-351.0	-7.7
163	nodo 12 (37)	1.55	7.71	-193.06	2578.9	-449.0	-8.2
164	nodo 12 (38)	1.41	7.68	-192.34	2580.7	-406.8	-8.0
165	nodo 12 (39)	0.96	7.44	-185.52	2518.9	-275.2	-7.2
166	nodo 12 (40)	1.17	7.29	-182.09	2470.5	-336.5	-7.3
167	nodo 12 (41)	1.04	7.27	-181.40	2468.5	-297.3	-7.1
168	nodo 12 (42)	1.04	7.27	-181.40	2468.5	-297.3	-7.1
169	nodo 11 (1)	2.64	2.91	-306.29	1148.1	-757.3	-28.5
170	nodo 11 (2)	3.40	2.74	-317.35	1076.3	-982.1	-29.6
171	nodo 11 (3)	-1.73	3.24	-198.70	895.1	531.2	-18.6
172	nodo 11 (4)	16.40	-6.01	-187.86	-569.7	-3269.2	-173.6
173	nodo 11 (5)	18.68	-2.50	-202.57	-149.7	-3821.3	-251.5
174	nodo 11 (6)	10.93	-16.89	-111.30	-1742.5	-1945.2	-162.4
175	nodo 11 (7)	13.21	-13.38	-126.01	-1322.5	-2497.3	-240.4
176	nodo 11 (8)	17.99	-6.10	-280.50	-453.0	-3610.6	-189.0
177	nodo 11 (9)	20.27	-2.59	-295.21	-32.9	-4162.7	-267.0
178	nodo 11 (10)	12.52	-16.98	-203.94	-1625.8	-2286.6	-177.9

179	nodo 11 (11)	14.80	-13.47	-218.65	-1205.7	-2838.7	-255.8
180	nodo 11 (12)	11.11	10.68	-291.91	1524.3	-2540.7	36.1
181	nodo 11 (13)	11.58	10.65	-319.70	1559.3	-2643.1	31.5
182	nodo 11 (14)	2.90	17.64	-291.46	2531.4	-1041.8	153.7
183	nodo 11 (15)	3.38	17.61	-319.25	2566.4	-1144.2	149.1
184	nodo 11 (16)	18.72	22.37	-340.95	2924.4	-4380.8	-223.8
185	nodo 11 (17)	19.20	22.35	-368.74	2959.4	-4483.2	-228.4
186	nodo 11 (18)	10.52	29.34	-340.49	3931.5	-2882.0	-106.2
187	nodo 11 (19)	11.00	29.31	-368.28	3966.5	-2984.4	-110.8
188	nodo 11 (20)	-10.94	17.20	-186.34	2787.3	1726.9	218.3
189	nodo 11 (21)	-8.66	20.71	-201.05	3207.3	1174.9	140.4
190	nodo 11 (22)	-16.41	6.32	-109.78	1614.5	3050.9	229.5
191	nodo 11 (23)	-14.13	9.83	-124.49	2034.5	2498.9	151.5
192	nodo 11 (24)	-9.35	17.11	-278.99	2904.0	1385.6	202.9
193	nodo 11 (25)	-7.07	20.61	-293.70	3324.1	833.5	124.9
194	nodo 11 (26)	-14.82	6.23	-202.42	1731.2	2709.6	214.0
195	nodo 11 (27)	-12.54	9.74	-217.14	2151.3	2157.5	136.1
196	nodo 11 (28)	-7.14	-25.58	-36.71	-2385.0	1872.7	73.3
197	nodo 11 (29)	-6.66	-25.61	-64.50	-2350.0	1770.2	68.7
198	nodo 11 (30)	-15.34	-18.62	-36.25	-1377.9	3371.5	190.9
199	nodo 11 (31)	-14.86	-18.65	-64.05	-1342.9	3269.1	186.2
200	nodo 11 (32)	0.48	-13.89	-85.74	-984.8	32.5	-186.6
201	nodo 11 (33)	0.96	-13.91	-113.54	-949.8	-69.9	-191.2
202	nodo 11 (34)	-7.72	-6.92	-85.29	22.3	1531.4	-69.0
203	nodo 11 (35)	-7.25	-6.95	-113.08	57.3	1428.9	-73.6
204	nodo 11 (36)	2.25	1.90	-215.87	787.8	-649.9	-20.1
205	nodo 11 (37)	2.76	1.78	-223.24	739.9	-799.8	-20.8
206	nodo 11 (38)	2.53	1.83	-220.04	764.6	-733.7	-20.5
207	nodo 11 (39)	1.84	1.94	-205.50	813.2	-527.9	-19.0
208	nodo 11 (40)	2.13	1.82	-205.44	771.6	-615.8	-19.0
209	nodo 11 (41)	1.93	1.86	-202.50	790.8	-555.9	-18.8
210	nodo 11 (42)	1.93	1.86	-202.50	790.8	-555.9	-18.8
211	nodo 5 (1)	2.10	-4.91	-320.48	-1115.8	-561.9	8.5
212	nodo 5 (2)	2.05	-5.32	-323.09	-1258.1	-545.8	9.2
213	nodo 5 (3)	1.59	-1.78	-197.75	-557.0	-432.9	4.8
214	nodo 5 (4)	15.42	14.41	-250.62	1544.5	-2884.6	-138.1
215	nodo 5 (5)	14.15	11.06	-268.43	1171.2	-2591.9	-215.7
216	nodo 5 (6)	15.42	4.55	-300.13	667.9	-2908.2	-147.2
217	nodo 5 (7)	14.15	1.21	-317.94	294.6	-2615.6	-224.8
218	nodo 5 (8)	13.88	14.46	-261.05	1418.4	-2602.9	-153.9
219	nodo 5 (9)	12.61	11.11	-278.86	1045.1	-2310.3	-231.5
220	nodo 5 (10)	13.88	4.60	-310.55	541.8	-2626.6	-163.0
221	nodo 5 (11)	12.61	1.25	-328.36	168.5	-2334.0	-240.6
222	nodo 5 (12)	7.55	22.01	-125.37	1858.9	-1537.7	93.9
223	nodo 5 (13)	7.09	22.03	-128.50	1821.0	-1453.2	89.2
224	nodo 5 (14)	-0.02	15.31	-82.20	916.2	-198.8	210.8
225	nodo 5 (15)	-0.48	15.33	-85.33	878.4	-114.3	206.1
226	nodo 5 (16)	3.30	10.85	-184.74	614.6	-562.3	-164.9

227	nodo 5 (17)	2.84	10.86	-187.87	576.7	-477.9	-169.6
228	nodo 5 (18)	-4.26	4.15	-141.57	-328.0	776.6	-48.0
229	nodo 5 (19)	-4.73	4.16	-144.70	-365.9	861.1	-52.7
230	nodo 5 (20)	-9.79	-7.93	-106.72	-1597.5	1578.6	251.6
231	nodo 5 (21)	-11.06	-11.27	-124.53	-1970.8	1871.2	173.9
232	nodo 5 (22)	-9.79	-17.78	-156.22	-2474.1	1554.9	242.5
233	nodo 5 (23)	-11.06	-21.13	-174.03	-2847.4	1847.6	164.9
234	nodo 5 (24)	-11.33	-7.88	-117.15	-1723.7	1860.2	235.8
235	nodo 5 (25)	-12.60	-11.23	-134.96	-2097.0	2152.8	158.1
236	nodo 5 (26)	-11.33	-17.73	-166.65	-2600.3	1836.6	226.7
237	nodo 5 (27)	-12.60	-21.08	-184.46	-2973.6	2129.2	149.0
238	nodo 5 (28)	7.54	-10.83	-290.39	-1063.2	-1616.5	63.7
239	nodo 5 (29)	7.08	-10.82	-293.51	-1101.0	-1532.0	58.9
240	nodo 5 (30)	-0.02	-17.53	-247.21	-2005.8	-277.5	180.6
241	nodo 5 (31)	-0.48	-17.52	-250.34	-2043.6	-193.0	175.8
242	nodo 5 (32)	3.30	-22.00	-349.75	-2307.4	-641.1	-195.1
243	nodo 5 (33)	2.83	-21.98	-352.88	-2345.3	-556.6	-199.9
244	nodo 5 (34)	-4.27	-28.70	-306.58	-3250.1	697.8	-78.2
245	nodo 5 (35)	-4.73	-28.68	-309.71	-3287.9	782.3	-83.0
246	nodo 5 (36)	1.45	-3.62	-226.47	-808.9	-387.2	6.1
247	nodo 5 (37)	1.42	-3.89	-228.21	-903.7	-376.5	6.6
248	nodo 5 (38)	1.44	-3.77	-227.98	-859.0	-383.1	6.4
249	nodo 5 (39)	1.45	-3.34	-221.14	-714.3	-387.8	5.5
250	nodo 5 (40)	1.40	-3.45	-218.24	-752.5	-373.4	5.7
251	nodo 5 (41)	1.41	-3.34	-217.54	-714.5	-377.7	5.5
252	nodo 5 (42)	1.41	-3.34	-217.54	-714.5	-377.7	5.5
253	nodo 4 (1)	0.93	-10.37	-333.04	-2689.9	-234.0	15.1
254	nodo 4 (2)	0.97	-10.21	-335.38	-2659.4	-242.6	16.2
255	nodo 4 (3)	0.74	-9.54	-208.58	-2833.4	-194.2	8.9
256	nodo 4 (4)	15.25	5.22	-231.55	-92.6	-2866.1	-136.2
257	nodo 4 (5)	13.78	3.60	-241.29	-259.8	-2507.8	-214.8
258	nodo 4 (6)	14.89	-6.05	-277.48	-1481.2	-2775.4	-145.0
259	nodo 4 (7)	13.42	-7.68	-287.22	-1648.4	-2417.2	-223.5
260	nodo 4 (8)	13.63	5.18	-236.97	-170.1	-2572.1	-152.0
261	nodo 4 (9)	12.17	3.55	-246.71	-337.3	-2213.8	-230.6
262	nodo 4 (10)	13.27	-6.10	-282.90	-1558.7	-2481.5	-160.7
263	nodo 4 (11)	11.81	-7.72	-292.64	-1725.9	-2123.2	-239.3
264	nodo 4 (12)	7.75	16.45	-143.07	1154.9	-1644.1	98.4
265	nodo 4 (13)	7.27	16.43	-144.69	1131.7	-1555.9	93.7
266	nodo 4 (14)	-0.02	13.18	-121.27	691.7	-236.0	217.0
267	nodo 4 (15)	-0.50	13.17	-122.89	668.5	-147.8	212.2
268	nodo 4 (16)	2.88	11.03	-175.53	597.6	-449.9	-163.5
269	nodo 4 (17)	2.40	11.01	-177.16	574.4	-361.7	-168.3
270	nodo 4 (18)	-4.88	7.76	-153.73	134.4	958.1	-45.0
271	nodo 4 (19)	-5.37	7.75	-155.36	111.2	1046.3	-49.7
272	nodo 4 (20)	-10.63	-5.67	-158.89	-1636.7	1827.5	259.0
273	nodo 4 (21)	-12.09	-7.29	-168.63	-1803.9	2185.8	180.4
274	nodo 4 (22)	-10.99	-16.94	-204.82	-3025.3	1918.1	250.2

275	nodo 4 (23)	-12.46	-18.57	-214.56	-3192.4	2276.4	171.7
276	nodo 4 (24)	-12.25	-5.71	-164.31	-1714.1	2121.5	243.2
277	nodo 4 (25)	-13.71	-7.34	-174.05	-1881.3	2479.7	164.6
278	nodo 4 (26)	-12.61	-16.99	-210.24	-3102.7	2212.1	234.5
279	nodo 4 (27)	-14.07	-18.61	-219.98	-3269.9	2570.3	155.9
280	nodo 4 (28)	6.55	-21.13	-296.17	-3473.7	-1342.0	69.3
281	nodo 4 (29)	6.06	-21.15	-297.79	-3496.9	-1253.9	64.6
282	nodo 4 (30)	-1.22	-24.40	-274.37	-3936.9	66.0	187.9
283	nodo 4 (31)	-1.70	-24.42	-275.99	-3960.1	154.2	183.2
284	nodo 4 (32)	1.68	-26.55	-328.63	-4031.0	-147.9	-192.6
285	nodo 4 (33)	1.19	-26.57	-330.26	-4054.2	-59.7	-197.3
286	nodo 4 (34)	-6.09	-29.82	-306.84	-4494.2	1260.2	-74.0
287	nodo 4 (35)	-6.57	-29.83	-308.46	-4517.4	1348.4	-78.8
288	nodo 4 (36)	0.64	-6.99	-235.01	-1776.2	-160.6	10.8
289	nodo 4 (37)	0.66	-6.88	-236.57	-1755.9	-166.3	11.5
290	nodo 4 (38)	0.65	-6.93	-236.45	-1761.1	-163.9	11.2
291	nodo 4 (39)	0.60	-6.89	-229.61	-1738.9	-151.4	9.9
292	nodo 4 (40)	0.60	-6.65	-226.39	-1673.1	-150.1	10.1
293	nodo 4 (41)	0.59	-6.69	-225.76	-1681.3	-147.9	9.8
294	nodo 4 (42)	0.59	-6.69	-225.76	-1681.3	-147.9	9.8
295	nodo 3 (1)	0.00	-10.47	-337.15	-2684.7	0.0	0.0
296	nodo 3 (2)	0.00	-9.90	-339.68	-2527.7	0.0	0.0
297	nodo 3 (3)	0.00	-11.68	-211.98	-3448.4	0.0	0.0
298	nodo 3 (4)	14.46	-0.48	-206.41	-774.8	-2663.0	-149.5
299	nodo 3 (5)	13.04	-0.48	-206.41	-774.8	-2318.9	-227.4
300	nodo 3 (6)	14.46	-12.85	-250.29	-2521.0	-2663.0	-149.5
301	nodo 3 (7)	13.04	-12.85	-250.29	-2521.0	-2318.9	-227.4
302	nodo 3 (8)	12.86	-0.48	-206.41	-774.8	-2368.3	-165.2
303	nodo 3 (9)	11.44	-0.48	-206.41	-774.8	-2024.2	-243.0
304	nodo 3 (10)	12.86	-12.85	-250.29	-2521.0	-2368.3	-165.2
305	nodo 3 (11)	11.44	-12.85	-250.29	-2521.0	-2024.2	-243.0
306	nodo 3 (12)	6.49	13.94	-155.22	1262.4	-1320.9	73.2
307	nodo 3 (13)	6.01	13.94	-155.22	1262.4	-1232.5	68.5
308	nodo 3 (14)	-1.28	13.94	-155.22	1262.4	85.3	191.0
309	nodo 3 (15)	-1.76	13.94	-155.22	1262.4	173.7	186.3
310	nodo 3 (16)	1.76	13.94	-155.22	1262.4	-173.7	-186.3
311	nodo 3 (17)	1.28	13.94	-155.22	1262.4	-85.3	-191.0
312	nodo 3 (18)	-6.01	13.94	-155.22	1262.4	1232.5	-68.5
313	nodo 3 (19)	-6.49	13.94	-155.22	1262.4	1320.9	-73.2
314	nodo 3 (20)	-11.44	-0.48	-206.41	-774.8	2024.2	243.0
315	nodo 3 (21)	-12.86	-0.48	-206.41	-774.8	2368.3	165.2
316	nodo 3 (22)	-11.44	-12.85	-250.29	-2521.0	2024.2	243.0
317	nodo 3 (23)	-12.86	-12.85	-250.29	-2521.0	2368.3	165.2
318	nodo 3 (24)	-13.04	-0.48	-206.41	-774.8	2318.9	227.4
319	nodo 3 (25)	-14.46	-0.48	-206.41	-774.8	2663.0	149.5
320	nodo 3 (26)	-13.04	-12.85	-250.29	-2521.0	2318.9	227.4
321	nodo 3 (27)	-14.46	-12.85	-250.29	-2521.0	2663.0	149.5
322	nodo 3 (28)	6.49	-27.27	-301.48	-4558.3	-1320.9	73.2

323	nodo 3 (29)	6.01	-27.27	-301.48	-4558.3	-1232.5	68.5
324	nodo 3 (30)	-1.28	-27.27	-301.48	-4558.3	85.3	191.0
325	nodo 3 (31)	-1.76	-27.27	-301.48	-4558.3	173.7	186.3
326	nodo 3 (32)	1.76	-27.27	-301.48	-4558.3	-173.7	-186.3
327	nodo 3 (33)	1.28	-27.27	-301.48	-4558.3	-85.3	-191.0
328	nodo 3 (34)	-6.01	-27.27	-301.48	-4558.3	1232.5	-68.5
329	nodo 3 (35)	-6.49	-27.27	-301.48	-4558.3	1320.9	-73.2
330	nodo 3 (36)	0.00	-6.83	-237.84	-1701.5	0.0	0.0
331	nodo 3 (37)	0.00	-6.44	-239.52	-1596.8	0.0	0.0
332	nodo 3 (38)	0.00	-6.60	-239.34	-1636.6	0.0	0.0
333	nodo 3 (39)	0.00	-6.94	-232.25	-1727.0	0.0	0.0
334	nodo 3 (40)	0.00	-6.51	-229.02	-1606.0	0.0	0.0
335	nodo 3 (41)	0.00	-6.67	-228.35	-1647.9	0.0	0.0
336	nodo 3 (42)	0.00	-6.67	-228.35	-1647.9	0.0	0.0
337	nodo 2 (1)	-0.93	-10.37	-333.04	-2689.9	234.0	-15.1
338	nodo 2 (2)	-0.97	-10.21	-335.38	-2659.4	242.6	-16.2
339	nodo 2 (3)	-0.74	-9.54	-208.58	-2833.4	194.2	-8.9
340	nodo 2 (4)	13.71	-7.34	-174.05	-1881.3	-2479.7	-164.6
341	nodo 2 (5)	12.25	-5.71	-164.31	-1714.1	-2121.5	-243.2
342	nodo 2 (6)	14.07	-18.61	-219.98	-3269.9	-2570.3	-155.9
343	nodo 2 (7)	12.61	-16.99	-210.24	-3102.7	-2212.1	-234.5
344	nodo 2 (8)	12.09	-7.29	-168.63	-1803.9	-2185.8	-180.4
345	nodo 2 (9)	10.63	-5.67	-158.89	-1636.7	-1827.5	-259.0
346	nodo 2 (10)	12.46	-18.57	-214.56	-3192.4	-2276.4	-171.7
347	nodo 2 (11)	10.99	-16.94	-204.82	-3025.2	-1918.1	-250.2
348	nodo 2 (12)	5.37	7.75	-155.36	111.2	-1046.3	49.7
349	nodo 2 (13)	4.88	7.76	-153.73	134.4	-958.1	45.0
350	nodo 2 (14)	-2.40	11.01	-177.16	574.4	361.7	168.3
351	nodo 2 (15)	-2.88	11.03	-175.53	597.6	449.9	163.5
352	nodo 2 (16)	0.50	13.17	-122.89	668.5	147.8	-212.2
353	nodo 2 (17)	0.02	13.18	-121.27	691.7	236.0	-217.0
354	nodo 2 (18)	-7.27	16.43	-144.69	1131.7	1555.9	-93.7
355	nodo 2 (19)	-7.75	16.45	-143.07	1154.9	1644.1	-98.4
356	nodo 2 (20)	-12.17	3.55	-246.71	-337.3	2213.8	230.6
357	nodo 2 (21)	-13.63	5.18	-236.97	-170.1	2572.1	152.0
358	nodo 2 (22)	-11.81	-7.72	-292.64	-1725.9	2123.2	239.3
359	nodo 2 (23)	-13.27	-6.10	-282.90	-1558.7	2481.5	160.7
360	nodo 2 (24)	-13.78	3.60	-241.29	-259.8	2507.8	214.8
361	nodo 2 (25)	-15.25	5.22	-231.55	-92.6	2866.1	136.2
362	nodo 2 (26)	-13.42	-7.68	-287.22	-1648.4	2417.2	223.5
363	nodo 2 (27)	-14.89	-6.05	-277.48	-1481.2	2775.4	145.0
364	nodo 2 (28)	6.57	-29.83	-308.46	-4517.4	-1348.4	78.8
365	nodo 2 (29)	6.09	-29.82	-306.84	-4494.2	-1260.2	74.0
366	nodo 2 (30)	-1.19	-26.57	-330.26	-4054.2	59.7	197.3
367	nodo 2 (31)	-1.68	-26.55	-328.63	-4031.0	147.9	192.6
368	nodo 2 (32)	1.70	-24.42	-275.99	-3960.1	-154.2	-183.2
369	nodo 2 (33)	1.22	-24.40	-274.37	-3936.9	-66.0	-187.9
370	nodo 2 (34)	-6.06	-21.15	-297.79	-3496.9	1253.9	-64.6

371	nodo 2 (35)	-6.55	-21.13	-296.17	-3473.7	1342.0	-69.3
372	nodo 2 (36)	-0.64	-6.99	-235.01	-1776.2	160.6	-10.8
373	nodo 2 (37)	-0.66	-6.88	-236.57	-1755.9	166.3	-11.5
374	nodo 2 (38)	-0.65	-6.93	-236.45	-1761.1	163.9	-11.2
375	nodo 2 (39)	-0.60	-6.89	-229.61	-1738.9	151.4	-9.9
376	nodo 2 (40)	-0.60	-6.65	-226.39	-1673.1	150.1	-10.1
377	nodo 2 (41)	-0.59	-6.69	-225.76	-1681.3	147.9	-9.8
378	nodo 2 (42)	-0.59	-6.69	-225.76	-1681.3	147.9	-9.8
379	nodo 1 (1)	-2.10	-4.91	-320.48	-1115.8	561.9	-8.5
380	nodo 1 (2)	-2.05	-5.32	-323.09	-1258.1	545.8	-9.2
381	nodo 1 (3)	-1.59	-1.78	-197.75	-557.0	432.9	-4.8
382	nodo 1 (4)	12.60	-11.23	-134.96	-2097.0	-2152.8	-158.1
383	nodo 1 (5)	11.33	-7.88	-117.15	-1723.7	-1860.2	-235.8
384	nodo 1 (6)	12.60	-21.08	-184.46	-2973.6	-2129.2	-149.0
385	nodo 1 (7)	11.33	-17.73	-166.65	-2600.3	-1836.6	-226.7
386	nodo 1 (8)	11.06	-11.27	-124.53	-1970.8	-1871.2	-173.9
387	nodo 1 (9)	9.79	-7.93	-106.72	-1597.5	-1578.6	-251.6
388	nodo 1 (10)	11.06	-21.13	-174.03	-2847.4	-1847.6	-164.9
389	nodo 1 (11)	9.79	-17.78	-156.22	-2474.1	-1554.9	-242.5
390	nodo 1 (12)	4.73	4.16	-144.70	-365.9	-861.1	52.7
391	nodo 1 (13)	4.26	4.15	-141.57	-328.0	-776.6	48.0
392	nodo 1 (14)	-2.84	10.86	-187.87	576.7	477.9	169.6
393	nodo 1 (15)	-3.30	10.85	-184.74	614.6	562.3	164.9
394	nodo 1 (16)	0.48	15.33	-85.33	878.4	114.3	-206.1
395	nodo 1 (17)	0.02	15.31	-82.20	916.2	198.7	-210.8
396	nodo 1 (18)	-7.09	22.03	-128.50	1821.0	1453.2	-89.2
397	nodo 1 (19)	-7.55	22.01	-125.37	1858.9	1537.7	-93.9
398	nodo 1 (20)	-12.61	11.11	-278.86	1045.1	2310.3	231.5
399	nodo 1 (21)	-13.88	14.46	-261.05	1418.4	2602.9	153.9
400	nodo 1 (22)	-12.61	1.25	-328.36	168.5	2334.0	240.6
401	nodo 1 (23)	-13.88	4.60	-310.55	541.8	2626.6	163.0
402	nodo 1 (24)	-14.15	11.06	-268.43	1171.2	2591.9	215.7
403	nodo 1 (25)	-15.42	14.41	-250.62	1544.5	2884.6	138.1
404	nodo 1 (26)	-14.15	1.21	-317.94	294.6	2615.6	224.8
405	nodo 1 (27)	-15.42	4.55	-300.13	667.9	2908.2	147.2
406	nodo 1 (28)	4.73	-28.68	-309.71	-3287.9	-782.3	83.0
407	nodo 1 (29)	4.27	-28.70	-306.58	-3250.1	-697.8	78.2
408	nodo 1 (30)	-2.83	-21.98	-352.88	-2345.3	556.6	199.9
409	nodo 1 (31)	-3.30	-22.00	-349.75	-2307.4	641.1	195.1
410	nodo 1 (32)	0.48	-17.52	-250.34	-2043.6	193.0	-175.8
411	nodo 1 (33)	0.02	-17.53	-247.21	-2005.8	277.5	-180.6
412	nodo 1 (34)	-7.08	-10.82	-293.51	-1101.0	1532.0	-58.9
413	nodo 1 (35)	-7.54	-10.83	-290.39	-1063.2	1616.5	-63.7
414	nodo 1 (36)	-1.45	-3.62	-226.47	-808.9	387.2	-6.1
415	nodo 1 (37)	-1.42	-3.89	-228.21	-903.7	376.5	-6.6
416	nodo 1 (38)	-1.44	-3.77	-227.98	-859.0	383.1	-6.4
417	nodo 1 (39)	-1.45	-3.34	-221.14	-714.3	387.8	-5.5
418	nodo 1 (40)	-1.40	-3.45	-218.24	-752.5	373.4	-5.7

419	nodo 1 (41)	-1.41	-3.34	-217.54	-714.5	377.7	-5.5
420	nodo 1 (42)	-1.41	-3.34	-217.54	-714.5	377.7	-5.5

Spostamenti globali palificata:

Cond.	Commento	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
1	nodo 15 (1)	-0.00	-0.01	-0.10	0.00	0.00	0.00
2	nodo 15 (2)	-0.00	-0.01	-0.10	0.00	0.00	0.00
3	nodo 15 (3)	-0.00	0.00	-0.07	0.00	-0.00	0.00
4	nodo 15 (4)	0.04	0.08	-0.10	-0.00	0.00	-0.00
5	nodo 15 (5)	0.04	0.06	-0.09	-0.00	0.00	-0.00
6	nodo 15 (6)	0.04	0.02	-0.07	0.00	0.00	-0.00
7	nodo 15 (7)	0.05	0.00	-0.07	0.00	0.00	-0.00
8	nodo 15 (8)	0.04	0.08	-0.07	-0.00	0.00	-0.00
9	nodo 15 (9)	0.04	0.07	-0.06	-0.00	0.00	-0.00
10	nodo 15 (10)	0.05	0.02	-0.04	0.00	0.00	-0.00
11	nodo 15 (11)	0.05	0.01	-0.04	0.00	0.00	-0.00
12	nodo 15 (12)	-0.01	0.13	-0.12	-0.00	0.00	0.00
13	nodo 15 (13)	-0.01	0.13	-0.11	-0.00	0.00	0.00
14	nodo 15 (14)	-0.03	0.10	-0.12	-0.00	0.00	0.00
15	nodo 15 (15)	-0.03	0.10	-0.11	-0.00	0.00	0.00
16	nodo 15 (16)	0.00	0.07	-0.11	-0.00	0.00	-0.00
17	nodo 15 (17)	0.01	0.08	-0.10	-0.00	0.00	-0.00
18	nodo 15 (18)	-0.02	0.05	-0.11	-0.00	0.00	-0.00
19	nodo 15 (19)	-0.02	0.05	-0.10	-0.00	0.00	-0.00
20	nodo 15 (20)	-0.05	-0.02	-0.10	0.00	0.00	0.00
21	nodo 15 (21)	-0.05	-0.04	-0.09	0.00	0.00	0.00
22	nodo 15 (22)	-0.04	-0.08	-0.07	0.00	0.00	0.00
23	nodo 15 (23)	-0.04	-0.10	-0.07	0.00	-0.00	0.00
24	nodo 15 (24)	-0.05	-0.02	-0.07	0.00	0.00	0.00
25	nodo 15 (25)	-0.04	-0.03	-0.06	0.00	0.00	0.00
26	nodo 15 (26)	-0.04	-0.07	-0.04	0.00	-0.00	0.00
27	nodo 15 (27)	-0.04	-0.09	-0.04	0.00	-0.00	0.00
28	nodo 15 (28)	0.02	-0.06	-0.04	0.00	-0.00	0.00
29	nodo 15 (29)	0.02	-0.06	-0.03	0.00	-0.00	0.00
30	nodo 15 (30)	-0.01	-0.09	-0.04	0.00	-0.00	0.00
31	nodo 15 (31)	-0.00	-0.09	-0.03	0.00	-0.00	0.00
32	nodo 15 (32)	0.03	-0.12	-0.02	0.00	-0.00	-0.00
33	nodo 15 (33)	0.03	-0.12	-0.01	0.00	-0.00	-0.00
34	nodo 15 (34)	0.01	-0.15	-0.02	0.00	-0.00	-0.00
35	nodo 15 (35)	0.01	-0.15	-0.01	0.00	-0.00	-0.00
36	nodo 15 (36)	-0.00	-0.01	-0.07	0.00	0.00	0.00
37	nodo 15 (37)	-0.00	-0.01	-0.07	0.00	0.00	0.00
38	nodo 15 (38)	-0.00	-0.01	-0.07	0.00	0.00	0.00

39	nodo 15 (39)	-0.00	-0.01	-0.07	0.00	0.00	0.00
40	nodo 15 (40)	-0.00	-0.01	-0.07	0.00	0.00	0.00
41	nodo 15 (41)	-0.00	-0.01	-0.07	0.00	0.00	0.00
42	nodo 15 (42)	-0.00	-0.01	-0.07	0.00	0.00	0.00
43	nodo 14 (1)	-0.00	-0.01	-0.09	0.00	0.00	0.00
44	nodo 14 (2)	-0.00	-0.01	-0.09	0.00	0.00	0.00
45	nodo 14 (3)	-0.00	-0.00	-0.07	0.00	-0.00	0.00
46	nodo 14 (4)	0.04	0.05	-0.06	0.00	0.00	-0.00
47	nodo 14 (5)	0.04	0.04	-0.06	0.00	0.00	-0.00
48	nodo 14 (6)	0.05	-0.01	-0.05	0.00	0.00	-0.00
49	nodo 14 (7)	0.05	-0.02	-0.05	0.00	-0.00	-0.00
50	nodo 14 (8)	0.04	0.05	-0.06	0.00	0.00	-0.00
51	nodo 14 (9)	0.04	0.04	-0.06	0.00	0.00	-0.00
52	nodo 14 (10)	0.05	-0.01	-0.05	0.00	-0.00	-0.00
53	nodo 14 (11)	0.05	-0.02	-0.05	0.00	-0.00	-0.00
54	nodo 14 (12)	-0.01	0.10	-0.08	-0.00	0.00	0.00
55	nodo 14 (13)	-0.01	0.11	-0.08	-0.00	0.00	0.00
56	nodo 14 (14)	-0.03	0.09	-0.08	-0.00	0.00	0.00
57	nodo 14 (15)	-0.03	0.09	-0.08	-0.00	0.00	0.00
58	nodo 14 (16)	-0.00	0.08	-0.07	0.00	0.00	-0.00
59	nodo 14 (17)	-0.00	0.08	-0.07	0.00	0.00	-0.00
60	nodo 14 (18)	-0.03	0.06	-0.08	0.00	0.00	-0.00
61	nodo 14 (19)	-0.03	0.06	-0.07	0.00	0.00	-0.00
62	nodo 14 (20)	-0.05	-0.00	-0.07	0.00	0.00	0.00
63	nodo 14 (21)	-0.05	-0.01	-0.07	0.00	0.00	0.00
64	nodo 14 (22)	-0.04	-0.06	-0.06	0.00	0.00	0.00
65	nodo 14 (23)	-0.04	-0.07	-0.06	0.00	0.00	0.00
66	nodo 14 (24)	-0.05	-0.00	-0.07	0.00	0.00	0.00
67	nodo 14 (25)	-0.05	-0.01	-0.07	0.00	0.00	0.00
68	nodo 14 (26)	-0.04	-0.06	-0.06	0.00	0.00	0.00
69	nodo 14 (27)	-0.04	-0.06	-0.06	0.00	-0.00	0.00
70	nodo 14 (28)	0.03	-0.08	-0.04	0.00	-0.00	0.00
71	nodo 14 (29)	0.03	-0.08	-0.04	0.00	-0.00	0.00
72	nodo 14 (30)	0.00	-0.09	-0.05	0.00	0.00	0.00
73	nodo 14 (31)	0.00	-0.09	-0.05	0.00	0.00	0.00
74	nodo 14 (32)	0.03	-0.11	-0.04	0.00	-0.00	-0.00
75	nodo 14 (33)	0.03	-0.11	-0.04	0.00	-0.00	-0.00
76	nodo 14 (34)	0.01	-0.12	-0.04	0.00	-0.00	-0.00
77	nodo 14 (35)	0.01	-0.12	-0.04	0.00	-0.00	-0.00
78	nodo 14 (36)	-0.00	-0.01	-0.06	0.00	0.00	0.00
79	nodo 14 (37)	-0.00	-0.01	-0.06	0.00	0.00	0.00
80	nodo 14 (38)	-0.00	-0.01	-0.06	0.00	0.00	0.00
81	nodo 14 (39)	-0.00	-0.01	-0.06	0.00	0.00	0.00
82	nodo 14 (40)	-0.00	-0.01	-0.06	0.00	0.00	0.00
83	nodo 14 (41)	-0.00	-0.01	-0.06	0.00	0.00	0.00
84	nodo 14 (42)	-0.00	-0.01	-0.06	0.00	0.00	0.00
85	nodo 13 (1)	0.00	-0.01	-0.09	0.00	0.00	0.00
86	nodo 13 (2)	0.00	-0.01	-0.09	0.00	0.00	0.00

87	nodo 13 (3)	0.00	-0.00	-0.08	0.00	0.00	0.00
88	nodo 13 (4)	0.04	0.02	-0.06	0.00	0.00	-0.00
89	nodo 13 (5)	0.05	0.02	-0.06	0.00	0.00	-0.00
90	nodo 13 (6)	0.04	-0.04	-0.06	0.00	0.00	-0.00
91	nodo 13 (7)	0.05	-0.04	-0.06	0.00	0.00	-0.00
92	nodo 13 (8)	0.04	0.02	-0.06	0.00	0.00	-0.00
93	nodo 13 (9)	0.05	0.02	-0.06	0.00	0.00	-0.00
94	nodo 13 (10)	0.04	-0.04	-0.06	0.00	0.00	-0.00
95	nodo 13 (11)	0.05	-0.04	-0.06	0.00	0.00	-0.00
96	nodo 13 (12)	-0.01	0.08	-0.07	0.00	0.00	0.00
97	nodo 13 (13)	-0.01	0.08	-0.07	0.00	0.00	0.00
98	nodo 13 (14)	-0.04	0.08	-0.07	0.00	0.00	0.00
99	nodo 13 (15)	-0.03	0.08	-0.07	0.00	0.00	0.00
100	nodo 13 (16)	0.03	0.08	-0.07	0.00	-0.00	-0.00
101	nodo 13 (17)	0.04	0.08	-0.07	0.00	-0.00	-0.00
102	nodo 13 (18)	0.01	0.08	-0.07	0.00	-0.00	-0.00
103	nodo 13 (19)	0.01	0.08	-0.07	0.00	-0.00	-0.00
104	nodo 13 (20)	-0.05	0.02	-0.06	0.00	-0.00	0.00
105	nodo 13 (21)	-0.04	0.02	-0.06	0.00	-0.00	0.00
106	nodo 13 (22)	-0.05	-0.04	-0.06	0.00	-0.00	0.00
107	nodo 13 (23)	-0.04	-0.04	-0.06	0.00	-0.00	0.00
108	nodo 13 (24)	-0.05	0.02	-0.06	0.00	-0.00	0.00
109	nodo 13 (25)	-0.04	0.02	-0.06	0.00	-0.00	0.00
110	nodo 13 (26)	-0.05	-0.04	-0.06	0.00	-0.00	0.00
111	nodo 13 (27)	-0.04	-0.04	-0.06	0.00	-0.00	0.00
112	nodo 13 (28)	-0.01	-0.10	-0.05	0.00	0.00	0.00
113	nodo 13 (29)	-0.01	-0.10	-0.05	0.00	0.00	0.00
114	nodo 13 (30)	-0.04	-0.10	-0.05	0.00	0.00	0.00
115	nodo 13 (31)	-0.03	-0.10	-0.05	0.00	0.00	0.00
116	nodo 13 (32)	0.03	-0.10	-0.05	0.00	-0.00	-0.00
117	nodo 13 (33)	0.04	-0.10	-0.05	0.00	-0.00	-0.00
118	nodo 13 (34)	0.01	-0.10	-0.05	0.00	-0.00	-0.00
119	nodo 13 (35)	0.01	-0.10	-0.05	0.00	-0.00	-0.00
120	nodo 13 (36)	0.00	-0.01	-0.06	0.00	0.00	0.00
121	nodo 13 (37)	0.00	-0.01	-0.06	0.00	0.00	0.00
122	nodo 13 (38)	0.00	-0.01	-0.06	0.00	0.00	0.00
123	nodo 13 (39)	0.00	-0.01	-0.06	0.00	0.00	0.00
124	nodo 13 (40)	0.00	-0.01	-0.06	0.00	0.00	0.00
125	nodo 13 (41)	0.00	-0.01	-0.06	0.00	0.00	0.00
126	nodo 13 (42)	0.00	-0.01	-0.06	0.00	0.00	0.00
127	nodo 12 (1)	0.00	-0.01	-0.09	0.00	-0.00	-0.00
128	nodo 12 (2)	0.00	-0.01	-0.09	0.00	-0.00	-0.00
129	nodo 12 (3)	0.00	-0.00	-0.07	0.00	0.00	-0.00
130	nodo 12 (4)	0.05	-0.01	-0.07	0.00	-0.00	-0.00
131	nodo 12 (5)	0.05	-0.00	-0.07	0.00	-0.00	-0.00
132	nodo 12 (6)	0.04	-0.06	-0.06	0.00	0.00	-0.00
133	nodo 12 (7)	0.04	-0.06	-0.06	0.00	-0.00	-0.00
134	nodo 12 (8)	0.05	-0.01	-0.07	0.00	-0.00	-0.00

135	nodo 12 (9)	0.05	-0.00	-0.07	0.00	-0.00	-0.00
136	nodo 12 (10)	0.04	-0.07	-0.06	0.00	-0.00	-0.00
137	nodo 12 (11)	0.04	-0.06	-0.06	0.00	-0.00	-0.00
138	nodo 12 (12)	0.03	0.06	-0.07	0.00	-0.00	0.00
139	nodo 12 (13)	0.03	0.06	-0.08	0.00	-0.00	0.00
140	nodo 12 (14)	0.00	0.08	-0.07	0.00	-0.00	0.00
141	nodo 12 (15)	0.00	0.08	-0.07	0.00	-0.00	0.00
142	nodo 12 (16)	0.03	0.09	-0.08	-0.00	-0.00	-0.00
143	nodo 12 (17)	0.03	0.09	-0.08	-0.00	-0.00	-0.00
144	nodo 12 (18)	0.01	0.11	-0.08	-0.00	-0.00	-0.00
145	nodo 12 (19)	0.01	0.10	-0.08	-0.00	-0.00	-0.00
146	nodo 12 (20)	-0.04	0.04	-0.06	0.00	-0.00	0.00
147	nodo 12 (21)	-0.04	0.05	-0.06	0.00	-0.00	0.00
148	nodo 12 (22)	-0.05	-0.02	-0.05	0.00	0.00	0.00
149	nodo 12 (23)	-0.05	-0.01	-0.05	0.00	0.00	0.00
150	nodo 12 (24)	-0.04	0.04	-0.06	0.00	-0.00	0.00
151	nodo 12 (25)	-0.04	0.05	-0.06	0.00	-0.00	0.00
152	nodo 12 (26)	-0.05	-0.02	-0.05	0.00	0.00	0.00
153	nodo 12 (27)	-0.05	-0.01	-0.05	0.00	-0.00	0.00
154	nodo 12 (28)	-0.01	-0.12	-0.04	0.00	0.00	0.00
155	nodo 12 (29)	-0.01	-0.12	-0.04	0.00	0.00	0.00
156	nodo 12 (30)	-0.03	-0.11	-0.04	0.00	0.00	0.00
157	nodo 12 (31)	-0.03	-0.11	-0.04	0.00	0.00	0.00
158	nodo 12 (32)	-0.00	-0.09	-0.05	0.00	-0.00	-0.00
159	nodo 12 (33)	-0.00	-0.09	-0.05	0.00	-0.00	-0.00
160	nodo 12 (34)	-0.03	-0.08	-0.04	0.00	0.00	-0.00
161	nodo 12 (35)	-0.03	-0.08	-0.04	0.00	0.00	-0.00
162	nodo 12 (36)	0.00	-0.01	-0.06	0.00	-0.00	-0.00
163	nodo 12 (37)	0.00	-0.01	-0.06	0.00	-0.00	-0.00
164	nodo 12 (38)	0.00	-0.01	-0.06	0.00	-0.00	-0.00
165	nodo 12 (39)	0.00	-0.01	-0.06	0.00	-0.00	-0.00
166	nodo 12 (40)	0.00	-0.01	-0.06	0.00	-0.00	-0.00
167	nodo 12 (41)	0.00	-0.01	-0.06	0.00	-0.00	-0.00
168	nodo 12 (42)	0.00	-0.01	-0.06	0.00	-0.00	-0.00
169	nodo 11 (1)	0.00	-0.01	-0.10	0.00	-0.00	-0.00
170	nodo 11 (2)	0.00	-0.01	-0.10	0.00	-0.00	-0.00
171	nodo 11 (3)	0.00	0.00	-0.07	0.00	0.00	-0.00
172	nodo 11 (4)	0.04	-0.03	-0.06	0.00	-0.00	-0.00
173	nodo 11 (5)	0.05	-0.02	-0.07	0.00	-0.00	-0.00
174	nodo 11 (6)	0.04	-0.09	-0.04	0.00	0.00	-0.00
175	nodo 11 (7)	0.04	-0.07	-0.04	0.00	0.00	-0.00
176	nodo 11 (8)	0.05	-0.04	-0.09	0.00	-0.00	-0.00
177	nodo 11 (9)	0.05	-0.02	-0.10	0.00	-0.00	-0.00
178	nodo 11 (10)	0.04	-0.10	-0.07	0.00	0.00	-0.00
179	nodo 11 (11)	0.04	-0.08	-0.07	0.00	-0.00	-0.00
180	nodo 11 (12)	0.02	0.05	-0.10	-0.00	-0.00	0.00
181	nodo 11 (13)	0.02	0.05	-0.11	-0.00	-0.00	0.00
182	nodo 11 (14)	-0.01	0.08	-0.10	-0.00	-0.00	0.00

183	nodo 11 (15)	-0.00	0.07	-0.11	-0.00	-0.00	0.00
184	nodo 11 (16)	0.03	0.10	-0.11	-0.00	-0.00	-0.00
185	nodo 11 (17)	0.03	0.10	-0.12	-0.00	-0.00	-0.00
186	nodo 11 (18)	0.01	0.13	-0.11	-0.00	-0.00	-0.00
187	nodo 11 (19)	0.01	0.13	-0.12	-0.00	-0.00	-0.00
188	nodo 11 (20)	-0.04	0.07	-0.06	-0.00	-0.00	0.00
189	nodo 11 (21)	-0.04	0.08	-0.07	-0.00	-0.00	0.00
190	nodo 11 (22)	-0.05	0.01	-0.04	0.00	-0.00	0.00
191	nodo 11 (23)	-0.05	0.02	-0.04	0.00	-0.00	0.00
192	nodo 11 (24)	-0.04	0.06	-0.09	-0.00	-0.00	0.00
193	nodo 11 (25)	-0.04	0.08	-0.10	-0.00	-0.00	0.00
194	nodo 11 (26)	-0.05	0.00	-0.07	0.00	-0.00	0.00
195	nodo 11 (27)	-0.04	0.02	-0.07	0.00	-0.00	0.00
196	nodo 11 (28)	-0.01	-0.15	-0.01	0.00	0.00	0.00
197	nodo 11 (29)	-0.01	-0.15	-0.02	0.00	0.00	0.00
198	nodo 11 (30)	-0.03	-0.12	-0.01	0.00	0.00	0.00
199	nodo 11 (31)	-0.03	-0.12	-0.02	0.00	0.00	0.00
200	nodo 11 (32)	0.00	-0.09	-0.03	0.00	0.00	-0.00
201	nodo 11 (33)	0.01	-0.09	-0.04	0.00	0.00	-0.00
202	nodo 11 (34)	-0.02	-0.06	-0.03	0.00	0.00	-0.00
203	nodo 11 (35)	-0.02	-0.06	-0.04	0.00	0.00	-0.00
204	nodo 11 (36)	0.00	-0.01	-0.07	0.00	-0.00	-0.00
205	nodo 11 (37)	0.00	-0.01	-0.07	0.00	-0.00	-0.00
206	nodo 11 (38)	0.00	-0.01	-0.07	0.00	-0.00	-0.00
207	nodo 11 (39)	0.00	-0.01	-0.07	0.00	-0.00	-0.00
208	nodo 11 (40)	0.00	-0.01	-0.07	0.00	-0.00	-0.00
209	nodo 11 (41)	0.00	-0.01	-0.07	0.00	-0.00	-0.00
210	nodo 11 (42)	0.00	-0.01	-0.07	0.00	-0.00	-0.00
211	nodo 5 (1)	0.00	-0.01	-0.11	-0.00	-0.00	0.00
212	nodo 5 (2)	0.00	-0.01	-0.11	-0.00	-0.00	0.00
213	nodo 5 (3)	0.00	0.00	-0.07	-0.00	-0.00	0.00
214	nodo 5 (4)	0.05	0.08	-0.08	-0.00	0.00	-0.00
215	nodo 5 (5)	0.05	0.06	-0.09	-0.00	0.00	-0.00
216	nodo 5 (6)	0.05	0.02	-0.10	-0.00	0.00	-0.00
217	nodo 5 (7)	0.04	0.00	-0.10	0.00	0.00	-0.00
218	nodo 5 (8)	0.04	0.08	-0.09	-0.00	0.00	-0.00
219	nodo 5 (9)	0.04	0.06	-0.09	-0.00	0.00	-0.00
220	nodo 5 (10)	0.04	0.02	-0.10	-0.00	0.00	-0.00
221	nodo 5 (11)	0.04	0.01	-0.11	-0.00	0.00	-0.00
222	nodo 5 (12)	0.02	0.13	-0.04	-0.00	-0.00	0.00
223	nodo 5 (13)	0.02	0.13	-0.04	-0.00	-0.00	0.00
224	nodo 5 (14)	-0.01	0.10	-0.03	-0.00	-0.00	0.00
225	nodo 5 (15)	-0.01	0.10	-0.03	-0.00	-0.00	0.00
226	nodo 5 (16)	0.01	0.07	-0.06	-0.00	0.00	-0.00
227	nodo 5 (17)	0.01	0.07	-0.06	-0.00	0.00	-0.00
228	nodo 5 (18)	-0.01	0.04	-0.05	-0.00	-0.00	-0.00
229	nodo 5 (19)	-0.02	0.05	-0.05	-0.00	-0.00	-0.00
230	nodo 5 (20)	-0.04	-0.02	-0.04	-0.00	-0.00	0.00

231	nodo 5 (21)	-0.04	-0.04	-0.04	0.00	-0.00	0.00
232	nodo 5 (22)	-0.04	-0.08	-0.05	0.00	-0.00	0.00
233	nodo 5 (23)	-0.04	-0.10	-0.06	0.00	-0.00	0.00
234	nodo 5 (24)	-0.04	-0.02	-0.04	-0.00	-0.00	0.00
235	nodo 5 (25)	-0.04	-0.03	-0.04	0.00	-0.00	0.00
236	nodo 5 (26)	-0.04	-0.07	-0.05	0.00	-0.00	0.00
237	nodo 5 (27)	-0.05	-0.09	-0.06	0.00	-0.00	0.00
238	nodo 5 (28)	0.02	-0.06	-0.10	0.00	-0.00	0.00
239	nodo 5 (29)	0.02	-0.06	-0.10	0.00	-0.00	0.00
240	nodo 5 (30)	-0.01	-0.09	-0.08	0.00	-0.00	0.00
241	nodo 5 (31)	-0.01	-0.09	-0.08	0.00	-0.00	0.00
242	nodo 5 (32)	0.01	-0.12	-0.12	0.00	-0.00	-0.00
243	nodo 5 (33)	0.01	-0.12	-0.12	0.00	-0.00	-0.00
244	nodo 5 (34)	-0.02	-0.15	-0.10	0.00	-0.00	-0.00
245	nodo 5 (35)	-0.02	-0.15	-0.10	0.00	-0.00	-0.00
246	nodo 5 (36)	0.00	-0.01	-0.07	-0.00	-0.00	0.00
247	nodo 5 (37)	0.00	-0.01	-0.08	-0.00	-0.00	0.00
248	nodo 5 (38)	0.00	-0.01	-0.08	-0.00	-0.00	0.00
249	nodo 5 (39)	0.00	-0.01	-0.07	-0.00	-0.00	0.00
250	nodo 5 (40)	0.00	-0.01	-0.07	-0.00	-0.00	0.00
251	nodo 5 (41)	0.00	-0.01	-0.07	-0.00	-0.00	0.00
252	nodo 5 (42)	0.00	-0.01	-0.07	-0.00	-0.00	0.00
253	nodo 4 (1)	0.00	-0.01	-0.11	-0.00	-0.00	0.00
254	nodo 4 (2)	0.00	-0.01	-0.11	-0.00	-0.00	0.00
255	nodo 4 (3)	0.00	0.00	-0.07	-0.00	-0.00	0.00
256	nodo 4 (4)	0.05	0.05	-0.08	-0.00	0.00	-0.00
257	nodo 4 (5)	0.04	0.04	-0.08	-0.00	0.00	-0.00
258	nodo 4 (6)	0.05	-0.01	-0.09	-0.00	0.00	-0.00
259	nodo 4 (7)	0.04	-0.02	-0.09	-0.00	0.00	-0.00
260	nodo 4 (8)	0.04	0.05	-0.08	-0.00	0.00	-0.00
261	nodo 4 (9)	0.04	0.04	-0.08	-0.00	0.00	-0.00
262	nodo 4 (10)	0.04	-0.01	-0.09	-0.00	0.00	-0.00
263	nodo 4 (11)	0.04	-0.02	-0.10	-0.00	0.00	-0.00
264	nodo 4 (12)	0.02	0.10	-0.05	-0.00	-0.00	0.00
265	nodo 4 (13)	0.02	0.11	-0.05	-0.00	-0.00	0.00
266	nodo 4 (14)	-0.01	0.09	-0.04	-0.00	-0.00	0.00
267	nodo 4 (15)	-0.01	0.09	-0.04	-0.00	-0.00	0.00
268	nodo 4 (16)	0.01	0.08	-0.06	-0.00	0.00	-0.00
269	nodo 4 (17)	0.01	0.08	-0.06	-0.00	0.00	-0.00
270	nodo 4 (18)	-0.01	0.06	-0.05	-0.00	0.00	-0.00
271	nodo 4 (19)	-0.02	0.06	-0.05	-0.00	0.00	-0.00
272	nodo 4 (20)	-0.04	-0.00	-0.05	-0.00	-0.00	0.00
273	nodo 4 (21)	-0.04	-0.01	-0.06	-0.00	-0.00	0.00
274	nodo 4 (22)	-0.04	-0.06	-0.07	0.00	-0.00	0.00
275	nodo 4 (23)	-0.04	-0.07	-0.07	0.00	-0.00	0.00
276	nodo 4 (24)	-0.04	0.00	-0.05	-0.00	-0.00	0.00
277	nodo 4 (25)	-0.04	-0.01	-0.06	-0.00	-0.00	0.00
278	nodo 4 (26)	-0.04	-0.05	-0.07	0.00	-0.00	0.00

279	nodo 4 (27)	-0.05	-0.06	-0.07	0.00	-0.00	0.00
280	nodo 4 (28)	0.02	-0.08	-0.10	0.00	-0.00	0.00
281	nodo 4 (29)	0.02	-0.08	-0.10	0.00	-0.00	0.00
282	nodo 4 (30)	-0.01	-0.09	-0.09	0.00	-0.00	0.00
283	nodo 4 (31)	-0.01	-0.09	-0.09	0.00	-0.00	0.00
284	nodo 4 (32)	0.01	-0.11	-0.11	0.00	0.00	-0.00
285	nodo 4 (33)	0.01	-0.11	-0.11	0.00	0.00	-0.00
286	nodo 4 (34)	-0.02	-0.12	-0.10	0.00	0.00	-0.00
287	nodo 4 (35)	-0.02	-0.12	-0.10	0.00	0.00	-0.00
288	nodo 4 (36)	0.00	-0.01	-0.08	-0.00	-0.00	0.00
289	nodo 4 (37)	0.00	-0.01	-0.08	-0.00	-0.00	0.00
290	nodo 4 (38)	0.00	-0.01	-0.08	-0.00	-0.00	0.00
291	nodo 4 (39)	0.00	-0.01	-0.08	-0.00	-0.00	0.00
292	nodo 4 (40)	0.00	-0.01	-0.07	-0.00	-0.00	0.00
293	nodo 4 (41)	0.00	-0.01	-0.07	-0.00	-0.00	0.00
294	nodo 4 (42)	0.00	-0.01	-0.07	-0.00	-0.00	0.00
295	nodo 3 (1)	0.00	-0.01	-0.11	-0.00	0.00	0.00
296	nodo 3 (2)	0.00	-0.01	-0.11	-0.00	0.00	0.00
297	nodo 3 (3)	0.00	-0.00	-0.07	-0.00	0.00	0.00
298	nodo 3 (4)	0.05	0.02	-0.07	-0.00	0.00	-0.00
299	nodo 3 (5)	0.04	0.02	-0.07	-0.00	0.00	-0.00
300	nodo 3 (6)	0.05	-0.04	-0.08	-0.00	0.00	-0.00
301	nodo 3 (7)	0.04	-0.04	-0.08	-0.00	0.00	-0.00
302	nodo 3 (8)	0.04	0.02	-0.07	-0.00	0.00	-0.00
303	nodo 3 (9)	0.04	0.02	-0.07	-0.00	0.00	-0.00
304	nodo 3 (10)	0.04	-0.04	-0.08	-0.00	0.00	-0.00
305	nodo 3 (11)	0.04	-0.04	-0.08	-0.00	0.00	-0.00
306	nodo 3 (12)	0.02	0.08	-0.05	-0.00	-0.00	0.00
307	nodo 3 (13)	0.02	0.08	-0.05	-0.00	-0.00	0.00
308	nodo 3 (14)	-0.01	0.08	-0.05	-0.00	-0.00	0.00
309	nodo 3 (15)	-0.01	0.08	-0.05	-0.00	-0.00	0.00
310	nodo 3 (16)	0.01	0.08	-0.05	-0.00	0.00	-0.00
311	nodo 3 (17)	0.01	0.08	-0.05	-0.00	0.00	-0.00
312	nodo 3 (18)	-0.02	0.08	-0.05	-0.00	0.00	-0.00
313	nodo 3 (19)	-0.02	0.08	-0.05	-0.00	0.00	-0.00
314	nodo 3 (20)	-0.04	0.02	-0.07	-0.00	-0.00	0.00
315	nodo 3 (21)	-0.04	0.02	-0.07	-0.00	-0.00	0.00
316	nodo 3 (22)	-0.04	-0.04	-0.08	-0.00	-0.00	0.00
317	nodo 3 (23)	-0.04	-0.04	-0.08	-0.00	-0.00	0.00
318	nodo 3 (24)	-0.04	0.02	-0.07	-0.00	-0.00	0.00
319	nodo 3 (25)	-0.05	0.02	-0.07	-0.00	-0.00	0.00
320	nodo 3 (26)	-0.04	-0.04	-0.08	-0.00	-0.00	0.00
321	nodo 3 (27)	-0.05	-0.04	-0.08	-0.00	-0.00	0.00
322	nodo 3 (28)	0.02	-0.10	-0.10	0.00	-0.00	0.00
323	nodo 3 (29)	0.02	-0.10	-0.10	0.00	-0.00	0.00
324	nodo 3 (30)	-0.01	-0.10	-0.10	0.00	-0.00	0.00
325	nodo 3 (31)	-0.01	-0.10	-0.10	0.00	-0.00	0.00
326	nodo 3 (32)	0.01	-0.10	-0.10	0.00	0.00	-0.00

327	nodo 3 (33)	0.01	-0.10	-0.10	0.00	0.00	-0.00
328	nodo 3 (34)	-0.02	-0.10	-0.10	0.00	0.00	-0.00
329	nodo 3 (35)	-0.02	-0.10	-0.10	0.00	0.00	-0.00
330	nodo 3 (36)	0.00	-0.01	-0.08	-0.00	0.00	0.00
331	nodo 3 (37)	0.00	-0.01	-0.08	-0.00	0.00	0.00
332	nodo 3 (38)	0.00	-0.01	-0.08	-0.00	0.00	0.00
333	nodo 3 (39)	0.00	-0.01	-0.08	-0.00	0.00	0.00
334	nodo 3 (40)	0.00	-0.01	-0.08	-0.00	0.00	0.00
335	nodo 3 (41)	0.00	-0.01	-0.08	-0.00	0.00	0.00
336	nodo 3 (42)	0.00	-0.01	-0.08	-0.00	0.00	0.00
337	nodo 2 (1)	-0.00	-0.01	-0.11	-0.00	0.00	-0.00
338	nodo 2 (2)	-0.00	-0.01	-0.11	-0.00	0.00	-0.00
339	nodo 2 (3)	-0.00	0.00	-0.07	-0.00	0.00	-0.00
340	nodo 2 (4)	0.04	-0.01	-0.06	-0.00	0.00	-0.00
341	nodo 2 (5)	0.04	0.00	-0.05	-0.00	0.00	-0.00
342	nodo 2 (6)	0.05	-0.06	-0.07	0.00	0.00	-0.00
343	nodo 2 (7)	0.04	-0.05	-0.07	0.00	0.00	-0.00
344	nodo 2 (8)	0.04	-0.01	-0.06	-0.00	0.00	-0.00
345	nodo 2 (9)	0.04	-0.00	-0.05	-0.00	0.00	-0.00
346	nodo 2 (10)	0.04	-0.07	-0.07	0.00	0.00	-0.00
347	nodo 2 (11)	0.04	-0.06	-0.07	0.00	0.00	-0.00
348	nodo 2 (12)	0.02	0.06	-0.05	-0.00	-0.00	0.00
349	nodo 2 (13)	0.01	0.06	-0.05	-0.00	-0.00	0.00
350	nodo 2 (14)	-0.01	0.08	-0.06	-0.00	-0.00	0.00
351	nodo 2 (15)	-0.01	0.08	-0.06	-0.00	-0.00	0.00
352	nodo 2 (16)	0.01	0.09	-0.04	-0.00	0.00	-0.00
353	nodo 2 (17)	0.01	0.09	-0.04	-0.00	0.00	-0.00
354	nodo 2 (18)	-0.02	0.11	-0.05	-0.00	0.00	-0.00
355	nodo 2 (19)	-0.02	0.10	-0.05	-0.00	0.00	-0.00
356	nodo 2 (20)	-0.04	0.04	-0.08	-0.00	-0.00	0.00
357	nodo 2 (21)	-0.04	0.05	-0.08	-0.00	-0.00	0.00
358	nodo 2 (22)	-0.04	-0.02	-0.10	-0.00	-0.00	0.00
359	nodo 2 (23)	-0.04	-0.01	-0.09	-0.00	-0.00	0.00
360	nodo 2 (24)	-0.04	0.04	-0.08	-0.00	-0.00	0.00
361	nodo 2 (25)	-0.05	0.05	-0.08	-0.00	-0.00	0.00
362	nodo 2 (26)	-0.04	-0.02	-0.09	-0.00	-0.00	0.00
363	nodo 2 (27)	-0.05	-0.01	-0.09	-0.00	-0.00	0.00
364	nodo 2 (28)	0.02	-0.12	-0.10	0.00	-0.00	0.00
365	nodo 2 (29)	0.02	-0.12	-0.10	0.00	-0.00	0.00
366	nodo 2 (30)	-0.01	-0.11	-0.11	0.00	-0.00	0.00
367	nodo 2 (31)	-0.01	-0.11	-0.11	0.00	-0.00	0.00
368	nodo 2 (32)	0.01	-0.09	-0.09	0.00	0.00	-0.00
369	nodo 2 (33)	0.01	-0.09	-0.09	0.00	0.00	-0.00
370	nodo 2 (34)	-0.02	-0.08	-0.10	0.00	0.00	-0.00
371	nodo 2 (35)	-0.02	-0.08	-0.10	0.00	0.00	-0.00
372	nodo 2 (36)	-0.00	-0.01	-0.08	-0.00	0.00	-0.00
373	nodo 2 (37)	-0.00	-0.01	-0.08	-0.00	0.00	-0.00
374	nodo 2 (38)	-0.00	-0.01	-0.08	-0.00	0.00	-0.00

375	nodo 2 (39)	-0.00	-0.01	-0.08	-0.00	0.00	-0.00
376	nodo 2 (40)	-0.00	-0.01	-0.07	-0.00	0.00	-0.00
377	nodo 2 (41)	-0.00	-0.01	-0.07	-0.00	0.00	-0.00
378	nodo 2 (42)	-0.00	-0.01	-0.07	-0.00	0.00	-0.00
379	nodo 1 (1)	-0.00	-0.01	-0.11	-0.00	0.00	-0.00
380	nodo 1 (2)	-0.00	-0.01	-0.11	-0.00	0.00	-0.00
381	nodo 1 (3)	-0.00	0.00	-0.07	-0.00	0.00	-0.00
382	nodo 1 (4)	0.04	-0.03	-0.04	0.00	0.00	-0.00
383	nodo 1 (5)	0.04	-0.02	-0.04	-0.00	0.00	-0.00
384	nodo 1 (6)	0.05	-0.09	-0.06	0.00	0.00	-0.00
385	nodo 1 (7)	0.04	-0.07	-0.05	0.00	0.00	-0.00
386	nodo 1 (8)	0.04	-0.04	-0.04	0.00	0.00	-0.00
387	nodo 1 (9)	0.04	-0.02	-0.04	-0.00	0.00	-0.00
388	nodo 1 (10)	0.04	-0.10	-0.06	0.00	0.00	-0.00
389	nodo 1 (11)	0.04	-0.08	-0.05	0.00	0.00	-0.00
390	nodo 1 (12)	0.02	0.05	-0.05	-0.00	0.00	0.00
391	nodo 1 (13)	0.01	0.04	-0.05	-0.00	0.00	0.00
392	nodo 1 (14)	-0.01	0.07	-0.06	-0.00	-0.00	0.00
393	nodo 1 (15)	-0.01	0.07	-0.06	-0.00	-0.00	0.00
394	nodo 1 (16)	0.01	0.10	-0.03	-0.00	0.00	-0.00
395	nodo 1 (17)	0.01	0.10	-0.03	-0.00	0.00	-0.00
396	nodo 1 (18)	-0.02	0.13	-0.04	-0.00	0.00	-0.00
397	nodo 1 (19)	-0.02	0.13	-0.04	-0.00	0.00	-0.00
398	nodo 1 (20)	-0.04	0.06	-0.09	-0.00	-0.00	0.00
399	nodo 1 (21)	-0.04	0.08	-0.09	-0.00	-0.00	0.00
400	nodo 1 (22)	-0.04	0.01	-0.11	-0.00	-0.00	0.00
401	nodo 1 (23)	-0.04	0.02	-0.10	-0.00	-0.00	0.00
402	nodo 1 (24)	-0.05	0.06	-0.09	-0.00	-0.00	0.00
403	nodo 1 (25)	-0.05	0.08	-0.08	-0.00	-0.00	0.00
404	nodo 1 (26)	-0.04	0.00	-0.10	0.00	-0.00	0.00
405	nodo 1 (27)	-0.05	0.02	-0.10	-0.00	-0.00	0.00
406	nodo 1 (28)	0.02	-0.15	-0.10	0.00	0.00	0.00
407	nodo 1 (29)	0.02	-0.15	-0.10	0.00	0.00	0.00
408	nodo 1 (30)	-0.01	-0.12	-0.12	0.00	0.00	0.00
409	nodo 1 (31)	-0.01	-0.12	-0.12	0.00	0.00	0.00
410	nodo 1 (32)	0.01	-0.09	-0.08	0.00	0.00	-0.00
411	nodo 1 (33)	0.01	-0.09	-0.08	0.00	0.00	-0.00
412	nodo 1 (34)	-0.02	-0.06	-0.10	0.00	0.00	-0.00
413	nodo 1 (35)	-0.02	-0.06	-0.10	0.00	0.00	-0.00
414	nodo 1 (36)	-0.00	-0.01	-0.07	-0.00	0.00	-0.00
415	nodo 1 (37)	-0.00	-0.01	-0.08	-0.00	0.00	-0.00
416	nodo 1 (38)	-0.00	-0.01	-0.08	-0.00	0.00	-0.00
417	nodo 1 (39)	-0.00	-0.01	-0.07	-0.00	0.00	-0.00
418	nodo 1 (40)	-0.00	-0.01	-0.07	-0.00	0.00	-0.00
419	nodo 1 (41)	-0.00	-0.01	-0.07	-0.00	0.00	-0.00
420	nodo 1 (42)	-0.00	-0.01	-0.07	-0.00	0.00	-0.00

Armature pali:

Armature pali nodo 15

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	14	0.00	-360.16	0.0	-3523.2	0.12	15 ø 16

Armature pali nodo 14

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	54	0.00	-231.63	4236.3	0.0	0.12	15 ø 16

Armature pali nodo 13

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	99	0.00	-193.56	4432.0	0.0	0.12	15 ø 16

Armature pali nodo 12

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	145	0.00	-231.63	4236.3	0.0	0.12	15 ø 16

Armature pali nodo 11

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	185	0.00	-360.16	0.0	3523.2	0.12	15 ø 16

Armature pali nodo 5

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	216	0.00	-293.14	0.0	2137.2	0.08	15 ø 16

Armature pali nodo 4

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	287	0.00	-301.28	-3025.7	0.0	0.10	15 ø 16

Armature pali nodo 3

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	323	0.00	-294.47	-3194.9	0.0	0.10	15 ø 16

Armature pali nodo 2

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	364	0.00	-301.28	-3025.7	0.0	0.10	15 ø 16

Armature pali nodo 1

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	405	0.00	-293.14	0.0	-2137.2	0.08	15 ø 16

- Verifiche pilastri

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
  -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -
    - Via statica equivalente.
    - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.

- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche setti in c.a.

Modalità di verifica

Le pareti in c.a. vengono verificate come setti/diaframmi o nuclei.

La verifica dei setti/diaframmi viene condotta a pressoflessione retta e a taglio. Viene calcolato lo sforzo normale medio agente sul setto e il momento ad esso associato. Quando previsto, sono introdotti ferri verticali aggiuntivi da disporsi sulle estremità del setto stesso.

La verifica dei nuclei viene condotta a pressoflessione deviata sulla sezione complessiva e a taglio sulle singole pareti costituenti il nucleo.

Sezioni Impiegate:

Sez. Num.	Info	Dimensioni	Criterio	Calcestruzzo	γ_M	F.C.	f_{ck} [kg/cm²]	f_{cd} [kg/cm²]	σ_{RARE} [kg/cm²]	σ_{FREQ} [kg/cm²]	σ_{QP} [kg/cm²]	Acciaio	γ_M	F.C.	f_{yk} [kg/cm²]	f_{yd} [kg/cm²]	σ_{yRA} [kg/c
1	Muro SETTO PERIMETRALE	s 20 [cm]	Verset	C25/30	1.50	1.00	250.0	141.7	150.0	250.0	112.5	B 450 C	1.15	1.00	4500.0	3913.0	3600.

Verifiche Setti:

Setto : 1 101 102 2 / Sezione 1

B = 255.00 H = 470.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	1	-114.16	-3216.3	-10132.7	0.23
Sommità	2	-0.97	-2479.0	-10728.0	0.24

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	42	-84.43	-2131.7	-6656.0	-26.6
$\sigma_{Cls,Med}$	42	-84.43	-2131.7	-6656.0	-10.6
$\sigma_{s,t}$	36	-84.69	-2211.5	-6977.7	583.9
$\sigma_{s,c}$	36	-84.69	-2211.5	-6977.7	-201.0
Sommita					
$\sigma_{Cls,Max}$	42	-2.13	-1364.1	-6343.7	-19.5
$\sigma_{Cls,Med}$	42	-2.13	-1364.1	-6343.7	-7.0
$\sigma_{s,t}$	37	-0.65	-1820.8	-7591.0	667.0
$\sigma_{s,c}$	37	-0.65	-1820.8	-7591.0	-162.3

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
1 102	19	-93.72	1.00	-93.72	36.72	-14008.2	1603.69	445.21	0.00	0.21

Setto : 2 102 103 3 / Sezione 1

B = 255.00 H = 470.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	2	-76.37	-3372.1	-3153.7	0.24
Sommità	2	-55.31	-6972.9	-4389.0	0.54

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	42	-57.52	-1952.3	-1763.8	-20.7
$\sigma_{Cls,Med}$	42	-57.52	-1952.3	-1763.8	-9.6
$\sigma_{s,t}$	37	-61.66	-2408.3	-2176.9	625.6
$\sigma_{s,c}$	37	-61.66	-2408.3	-2176.9	-137.0
Sommita					
$\sigma_{Cls,Max}$	42	-32.26	-4043.0	-2749.2	-42.3
$\sigma_{Cls,Med}$	42	-32.26	-4043.0	-2749.2	-19.8
$\sigma_{s,t}$	37	-41.32	-5041.0	-3058.4	1479.8
$\sigma_{s,c}$	37	-41.32	-5041.0	-3058.4	-221.4

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
2 103	20	-75.16	1.00	-75.16	-34.84	-8604.3	1603.69	445.21	0.00	0.17

Setto : 3 103 104 4 / Sezione 1

B = 255.00 H = 470.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	2	-76.37	-3372.1	3153.7	0.24
Sommità	2	-55.31	-6972.9	4389.0	0.54

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	42	-57.52	-1952.3	1763.8	-20.7
$\sigma_{Cls,Med}$	42	-57.52	-1952.3	1763.8	-9.6
$\sigma_{s,t}$	37	-61.66	-2408.3	2176.9	625.6
$\sigma_{s,c}$	37	-61.66	-2408.3	2176.9	-137.0
Sommita					
$\sigma_{Cls,Max}$	42	-32.26	-4043.0	2749.2	-42.3
$\sigma_{Cls,Med}$	42	-32.26	-4043.0	2749.2	-19.8
$\sigma_{s,t}$	37	-41.32	-5041.0	3058.4	1479.8
$\sigma_{s,c}$	37	-41.32	-5041.0	3058.4	-221.4

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
3 104	9	75.16	1.00	75.16	-34.84	8604.3	1603.69	445.21	0.00	0.17

Setto : 4 104 105 5 / Sezione 1

B = 255.00 H = 470.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	1	-114.16	-3216.3	10132.7	0.23
Sommità	2	-0.97	-2479.0	10728.0	0.24

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	42	-84.43	-2131.7	6656.0	-26.6
$\sigma_{Cls,Med}$	42	-84.43	-2131.7	6656.0	-10.6
$\sigma_{s,t}$	36	-84.69	-2211.5	6977.7	583.9
$\sigma_{s,c}$	36	-84.69	-2211.5	6977.7	-201.0
Sommita					
$\sigma_{Cls,Max}$	42	-2.13	-1364.1	6343.7	-19.5
$\sigma_{Cls,Med}$	42	-2.13	-1364.1	6343.7	-7.0
$\sigma_{s,t}$	37	-0.65	-1820.8	7591.0	667.0
$\sigma_{s,c}$	37	-0.65	-1820.8	7591.0	-162.3

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
4 105	12	93.72	1.00	93.72	36.72	14008.2	1603.69	445.21	0.00	0.21

Setto : 6 106 101 1 / Sezione 1

B = 147.50 H = 470.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	30	-99.24	-1415.6	13073.9	0.28
Sommità	17	-12.16	-2105.3	-11706.4	0.41

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	42	-39.54	-643.9	5455.7	-23.4
$\sigma_{Cls,Med}$	42	-39.54	-643.9	5455.7	-7.8
$\sigma_{s,t}$	36	-40.18	-662.7	5717.0	470.6
$\sigma_{s,c}$	36	-40.18	-662.7	5717.0	-256.8
Sommita					
$\sigma_{Cls,Max}$	42	-11.37	-888.4	-3114.2	-23.0
$\sigma_{Cls,Med}$	42	-11.37	-888.4	-3114.2	-8.0
$\sigma_{s,t}$	37	-11.69	-1156.8	-3922.2	699.3
$\sigma_{s,c}$	37	-11.69	-1156.8	-3922.2	-224.3

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
6 101	17	-115.19	1.00	-115.19	-12.16	-11706.4	918.22	254.91	0.00	0.45

Setto : 10 110 105 5 / Sezione 1

B = 147.50 H = 470.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	33	-99.24	1415.6	13073.9	0.28
Sommità	14	-12.16	2105.3	-11706.4	0.41

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	42	-39.54	643.9	5455.7	-23.4
$\sigma_{Cls,Med}$	42	-39.54	643.9	5455.7	-7.8
$\sigma_{s,t}$	36	-40.18	662.7	5717.0	470.6
$\sigma_{s,c}$	36	-40.18	662.7	5717.0	-256.8
Sommita					
$\sigma_{Cls,Max}$	42	-11.37	888.4	-3114.2	-23.0
$\sigma_{Cls,Med}$	42	-11.37	888.4	-3114.2	-8.0
$\sigma_{s,t}$	37	-11.69	1156.8	-3922.2	699.3
$\sigma_{s,c}$	37	-11.69	1156.8	-3922.2	-224.3

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
10 105	14	-115.19	1.00	-115.19	-12.16	-11706.4	918.22	254.91	0.00	0.45

Setto : 11 111 106 6 / Sezione 1

B = 147.50 H = 470.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	30	73.39	-1419.6	2876.6	0.28
Sommità	2	-114.75	-4195.6	4404.0	0.49

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	42	-118.36	-707.7	-10633.5	-33.4
$\sigma_{Cls,Med}$	42	-118.36	-707.7	-10633.5	-11.6
$\sigma_{s,t}$	37	-140.51	-902.3	-11932.5	613.4
$\sigma_{s,c}$	37	-140.51	-902.3	-11932.5	-464.1
Sommita					

$\sigma_{Cls,Max}$	42	-64.90	-2369.2	2478.4	-45.5
$\sigma_{Cls,Med}$	42	-64.90	-2369.2	2478.4	-19.6
$\sigma_{s,t}$	37	-83.21	-3031.4	3159.3	1321.6
$\sigma_{s,c}$	37	-83.21	-3031.4	3159.3	-359.1

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
11 106	17	139.61	1.00	139.61	-310.10	-24143.6	918.22	254.91	0.00	0.55

Setto : 15 115 110 10 / Sezione 1

B = 147.50 H = 470.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	33	73.39	1419.6	2876.6	0.28
Sommità	2	-114.75	4195.6	4404.0	0.49

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	42	-118.36	707.7	-10633.5	-33.4
$\sigma_{Cls,Med}$	42	-118.36	707.7	-10633.5	-11.6
$\sigma_{s,t}$	37	-140.51	902.3	-11932.5	613.4
$\sigma_{s,c}$	37	-140.51	902.3	-11932.5	-464.1
Sommita					
$\sigma_{Cls,Max}$	42	-64.90	2369.2	2478.4	-45.5
$\sigma_{Cls,Med}$	42	-64.90	2369.2	2478.4	-19.6
$\sigma_{s,t}$	37	-83.21	3031.4	3159.3	1321.6
$\sigma_{s,c}$	37	-83.21	3031.4	3159.3	-359.1

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
15 110	14	139.61	1.00	139.61	-310.10	-24143.6	918.22	254.91	0.00	0.55

- En.Ex.Sys. WinStrand
- Verifiche setti in c.a.

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
  -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -
    - Via statica equivalente.
    - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.

- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche lastre/piastre

Modalità di verifica

Gli elementi lastra/piastra possono essere distinti in due categorie in funzione dello stato di sollecitazione:

- elementi soggetti ad uno stato di sollecitazione semplice (flessione o tensionale a membrana);
- elementi soggetti ad uno stato di sollecitazione misto (flessionale e tensionale a membrana).

Le verifiche per stato di sollecitazione semplice sono svolte proiettando le armature lungo le direzioni principali e effettuando la verifica a flessione retta/membrana lungo tali direzioni.

Per gli elementi soggetti ad uno stato di sollecitazione misto, le direzioni principali variano, lungo lo sviluppo z dell'elemento, in modo continuo. Il codice di verifica procede a:

- suddivisione dell'elemento in strati di 1 cm di spessore;
- valutazione, per ogni strato, del corrispondente stato di deformazione e tensione membranale;
- ricostruzione, per sovrapposizione dei vari strati membranali, del comportamento globale dell'elemento soggetto allo stato misto di presso-flessione.

L'Utente può definire delle sezioni trasversali, per le quali le sollecitazioni sono valutate mediando integrazione sulla lunghezza della sezione

Nella determinazione della matrice di rigidezza degli strati di cls, si assume:

- Metodo T.A.: il calcestruzzo in compressione è assunto indefinitamente elastico lineare mentre, in trazione, si può assumere (opzionalmente) che sia in grado di assumere una trazione compresa fra 0 e f_{ct}, essendo f_{ct} la resstenza a trazione del calcestruzzo definita dall'EC2;
- Metodo S.L.U.: il metodo impiegato è quello noto come MCFT acronimo di "Modified Compression Field Method", sviluppato presso l'Università di Toronto da Collins e Del Vecchio a partire dagli anni '80. Il metodo, nella forma implementata, assume per la curva monoassiale tensione-deformazioni del cls quanto previsto dall'EC2;

La verifica a punzonamento può essere condotta considerando o non considerando autoequilibrate le tensioni nel terreno sotto il cono di punzonamento. L'angolo di diffusione è fissato dall'utente.

I copriferri indicati sono da intendersi riferiti al centro delle barre resistenti.

Simbologia utilizzata T.A.:

σ_{amm}
: Tensione ammissibile

$\sigma_{amm,Trazione}$
: Tensione ammissibile di trazione cls

$\sigma_{cls,1}$
: Tensione cls direzione 1

$\sigma_{cls,2}$
: Tensione cls direzione 2

$\sigma_{acciaio,1}$
: Tensione acciaio direzione 1

$\sigma_{acciaio,2}$
: Tensione acciaio direzione 2

$cf_{x,Eq}$
: Copriferro in direzione x

Af_x
: Armatura in direzione x

$cf_{y,Eq}$
: Copriferro in direzione y

Af_y
: Armatura in direzione y

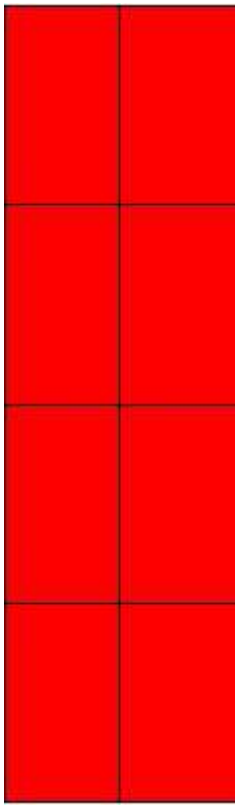
N_x, N_y, N_{xy}, M_{xx}, M_{yy}, M_{xy}
Componenti di sollecitazione esterna
N_{11}, N_{22}, M_{11}, M_{22}, M_{12}
Componenti di sollecitazione principali
α
Angolo direzioni principali
d
Distanza a cui è calcolato il perimetro critico
$\tau_{b,0}$
Tensione ammissibile a taglio elementi privi di armatura a taglio
$\tau_{b,1}$
Tensione ammissibile a taglio elementi con armatura a taglio
N, Mx, My
Sollecitazione esterna verifica a punzonamento
τ
Tensione tangenziale massima

Simbologia utilizzata S.L.:

f_{yd}
Tensione di snervamento di progetto barre armatura
ε_{ud}
Deformazione uniforme ultima
ε_{yd}
Deformazione al limite di snervamento
f_{ck}
Resistenza cilindrica caratteristica
f_{cd}
Tensione di calcolo a compressione di base
ε_{c2}
Deformazione limite elastico
ε_{y}
Deformazione limite ultimo
f_{ctd}
Tensione di calcolo a trazione di progetto
ε_{ctd}
Deformazione al limite di trazione
E_{cm}
Modulo elastico
$cf_{x,Eq}$
Copriferro in direzione x
Af_x
Armatura in direzione x
$cf_{y,Eq}$
Copriferro in direzione y
Af_y
Armatura in direzione y
N_x, N_y, N_{xy}, M_{xx}, M_{yy}, M_{xy}
Componenti di sollecitazione esterna
N_{11}, N_{22}, M_{11}, M_{22}, M_{12}
Componenti di sollecitazione principali
α
Angolo direzioni principali
Cr
Coefficiente rottura S_D/S_R
ε_x
Deformazione acciaio direzione x
ε_y
Deformazione acciaio direzione y
ε_{min}
Deformazione minima cls
ε_{max}
Deformazione massima cls
θ_{max}
Angolo direzioni principali di deformazione
σ_{amm}
Tensione ammissibile S.L.E. di riferimento
σ_x
Tensione nelle barre nello S.L.E. di riferimento in direzione x
σ_y
Tensione nelle barre nello S.L.E. di riferimento in direzione y
$\sigma_{c,Max}$
Tensione massima nel cls nello S.L.E. di riferimento
d
Distanza a cui è calcolato il perimetro critico

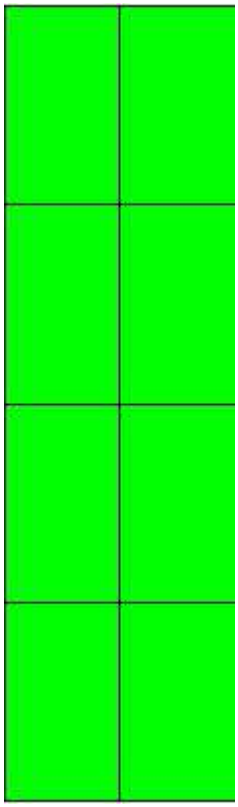
$C_{Rd,c}$
Coefficiente taglio resistente elementi privi di armatura a taglio
V_{Ed}, Mx_{Ed}, My_{Ed}
Sollecitazione esterna verifica a punzonamento
B_x,B_y
Dimensioni perimetro critico
β
Angolo diffusione tensioni
v_{Ed}
Tensione tangenziale sull'area critica
ρ
Rapporto meccanico di armatura
$V_{Rd,c}$
Taglio resistente elementi privi di armatura

Mappa armature di Estradosso



Colore	Armature
	top ø 12/20' X + ø 12/20' Y c=4.00 [cm]

Mappa armature di Intradosso



Colore	Armature
	bottom ø 12/20' X + ø 12/20' Y c=4.00 [cm]

Impostazioni di verifica

Curva σ/ε Calcestruzzo

- secondo Hognestad

Modellazione softening (trazione/compressione)

- $fc_{d,soft}$= fc_d 0.9/sqrt(1+400 et) / Hognestad

Modellazione compressione biassiale

- $fc_{d,biaxial}$= fc_d (1 + 3.8 α) / $(1.0+\alpha)^2$ / α=ec1/ec2 (EC2 Ponti 6.110)

Elementi più sollecitati per tipologia di sezione

Verifiche SLU *Shell* elemento nodi 4 8

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**

- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 12.0 [kg/cm²]**
- **ε_{ctd} 0.08 ‰**
- **E_{cm} 141666.7 [kg/cm²]**

Sezione

- **sezione 1 H=30.00 [cm]**

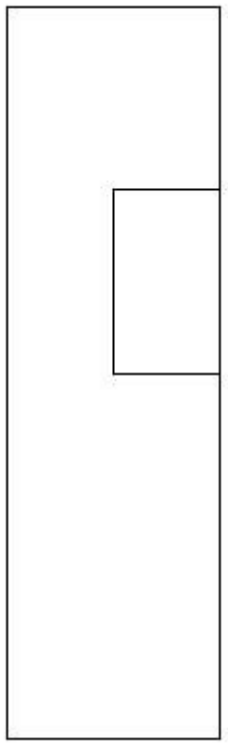
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	4.00	5.65	4.00	5.65	4.00	5.65	4.00

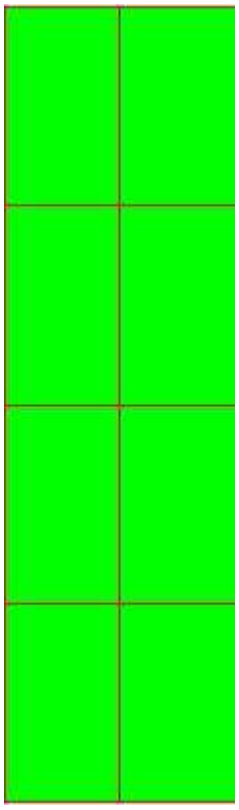
Azioni di verifica combinazione 12 (2.21 6.37 [m])

N_x	763.9	[kg/m]	N_{11}	450.6	[kg/m]
N_y	3438.4	[kg/m]	N_{22}	3751.7	[kg/m]
N_{xy}	-967.6	[kg/m]	α	17.94	[°]
M_{xx}	-877.28	[kgm/m]	M_{11}	-900.10	[kgm/m]
M_y	-63.02	[kgm/m]	M_{22}	-40.19	[kgm/m]
M_{xy}	-138.22	[kgm/m]	α	9.38	[°]

Verifiche

Cr=S/R	**Posizione**	**Acciaio**		**Calcestruzzo**		
		ε_x‰	**ε_y‰**	**ε_{min}‰**	**ε_{max}‰**	**θ [°]**
0.18	Estradosso	0.885	0.550	0.627	-3.500	-81.20
	Intradosso	22.638	0.646	27.212	0.379	5.93





33 % 66 % 99 % 100 % 150 %

Verifiche SLE Rare *Shell* elemento nodi 4 8

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 3600.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 150.0 [kg/cm²]**

Sezione

- **sezione 1 H=30.00 [cm]**

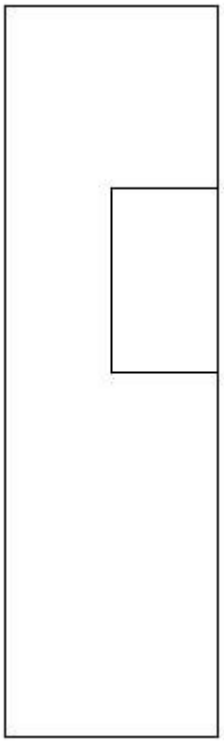
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	4.00	5.65	4.00	5.65	4.00	5.65	4.00

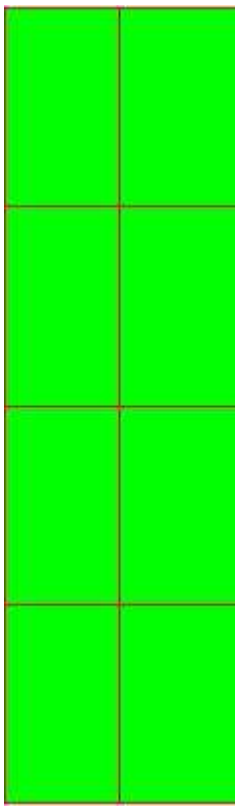
Azioni di verifica combinazione 36 (2.21 6.37 [m])

N_x	218.1	[kg/m]	N_{11}	136.3	[kg/m]
N_y	1869.0	[kg/m]	N_{22}	1950.8	[kg/m]
N_{xy}	-376.5	[kg/m]	α	12.26	[°]
M_{xx}	-529.75	[kgm/m]	M_{11}	-529.81	[kgm/m]
M_y	-80.85	[kgm/m]	M_{22}	-80.78	[kgm/m]
M_{xy}	-5.40	[kgm/m]	α	0.69	[°]

Verifiche

Cr=S/R	**Posizione**	**Acciaio**		**Calcestruzzo**		**Stato**	**Ampiezza Fessure mm**
		σ_x [kg/cm²]	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**		
0.10	Estradosso	-34.4	5.3	-3.5	-78.91		
	Intradosso	42.1	6.5	0.0	11.23		





33 % 66 % 99 % 100 % 150 %

Verifiche SLE Frequenti *Shell* elemento nodi 4 8

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 4500.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 250.0 [kg/cm²]**

Sezione

- **sezione 1 H=30.00 [cm]**

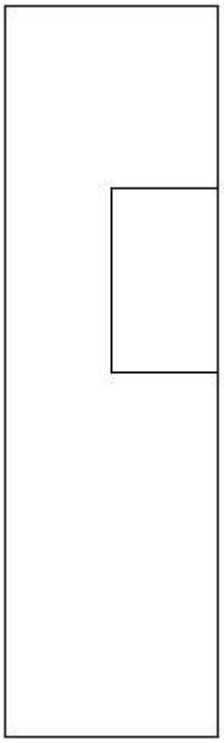
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	4.00	5.65	4.00	5.65	4.00	5.65	4.00

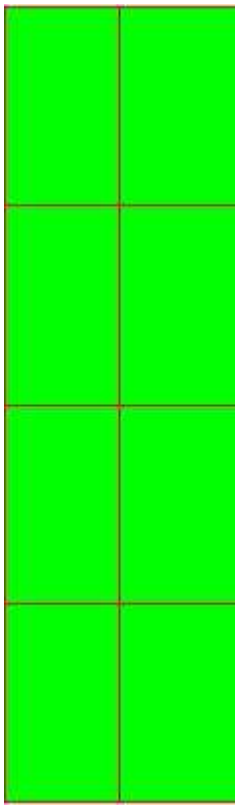
Azioni di verifica combinazione 39 (2.21 6.37 [m])

N_x	175.2	[kg/m]	N_{11}	105.6	[kg/m]
N_y	1752.1	[kg/m]	N_{22}	1821.7	[kg/m]
N_{xy}	-338.5	[kg/m]	α	11.62	[°]
M_{xx}	-524.36	[kgm/m]	M_{11}	-524.36	[kgm/m]
M_y	-82.48	[kgm/m]	M_{22}	-82.48	[kgm/m]
M_{xy}	-0.05	[kgm/m]	α	0.01	[°]

Verifiche

		Acciaio		**Calcestruzzo**			
Cr=S/R	**Posizione**	**σ_x [kg/cm²]**	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**	**Stato**	**Ampiezza Fessure mm**
0.10	Estradosso	-34.4	4.8	-3.4	-79.36		
	Intradosso	41.6	6.0	0.0	10.84		





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Verifiche SLE Quasi Permanenti *Shell* elemento nodi 4 8

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 4500.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 112.5 [kg/cm²]**
- **w_{Max} 0.30 mm**

Sezione

- **sezione 1 H=30.00 [cm]**

Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**

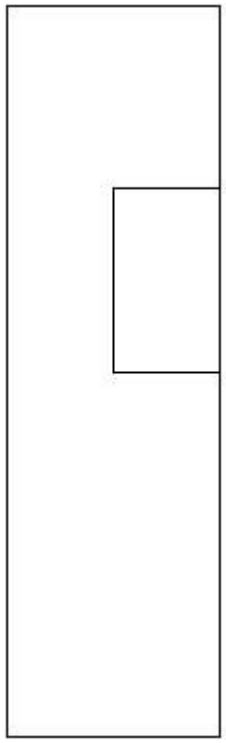
5.65 4.00 5.65 4.00 5.65 4.00 5.65 4.00

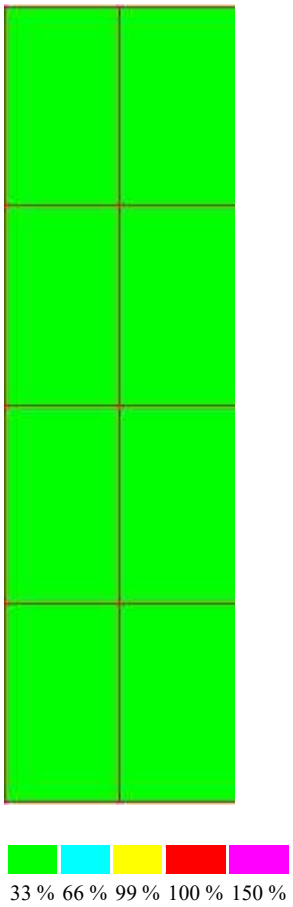
Azioni di verifica combinazione 42 (2.21 6.37 [m])

N_x	179.3	[kg/m]	N_{11}	108.5	[kg/m]
N_y	1725.9	[kg/m]	N_{22}	1796.8	[kg/m]
N_{xy}	-338.6	[kg/m]	α	11.82	[°]
M_{xx}	-511.05	[kgm/m]	M_{11}	-511.06	[kgm/m]
M_y	-79.02	[kgm/m]	M_{22}	-79.01	[kgm/m]
M_{xy}	-2.17	[kgm/m]	α	0.29	[°]

Verifiche

		Acciaio		**Calcestruzzo**			
Cr=S/R	**Posizione**	**σ_x [kg/cm²]**	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**	**Stato**	**Ampiezza Fessure mm**
0.10	Estradosso	-33.4	4.8	-3.4	-79.10	NON Fessurato	0.000
	Intradosso	40.5	5.9	0.0	11.12	NON Fessurato	0.000




33 % 66 % 99 % 100 % 150 %

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
    -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):

-
  - Via statica equivalente.
  - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.
- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche lastre/piastre

Modalità di verifica

Gli elementi lastra/piastra possono essere distinti in due categorie in funzione dello stato di sollecitazione:

- elementi soggetti ad uno stato di sollecitazione semplice (flessione o tensionale a membrana);
- elementi soggetti ad uno stato di sollecitazione misto (flessionale e tensionale a membrana).

Le verifiche per stato di sollecitazione semplice sono svolte proiettando le armature lungo le direzioni principali e effettuando la verifica a flessione retta/membrana lungo tali direzioni.

Per gli elementi soggetti ad uno stato di sollecitazione misto, le direzioni principali variano, lungo lo sviluppo z dell'elemento, in modo continuo. Il codice di verifica procede a:

- suddivisione dell'elemento in strati di 1 cm di spessore;
- valutazione, per ogni strato, del corrispondente stato di deformazione e tensione membranale;
- ricostruzione, per sovrapposizione dei vari strati membranali, del comportamento globale dell'elemento soggetto allo stato misto di presso-flessione.

L'Utente può definire delle sezioni trasversali, per le quali le sollecitazioni sono valutate mediando integrazione sulla lunghezza della sezione

Nella determinazione della matrice di rigidezza degli strati di cls, si assume:

- Metodo T.A.: il calcestruzzo in compressione è assunto indefinitamente elastico lineare mentre, in trazione, si può assumere (opzionalmente) che sia in grado di assumere una trazione compresa fra 0 e f_{ct}, essendo f_{ct} la resstenza a trazione del calcestruzzo definita dall'EC2;
- Metodo S.L.U.: il metodo impiegato è quello noto come MCFT acronimo di "Modified Compression Field Method", sviluppato presso l'Università di Toronto da Collins e Del Vecchio a partire dagli anni '80. Il metodo, nella forma implementata, assume per la curva monoassiale tensione-deformazioni del cls quanto previsto dall'EC2;

La verifica a punzonamento può essere condotta considerando o non considerando autoequilibrate le tensioni nel terreno sotto il cono di punzonamento. L'angolo di diffusione è fissato dall'utente.

I copriferri indicati sono da intendersi riferiti al centro delle barre resistenti.

Simbologia utilizzata T.A.:

σ_{amm}
Tensione ammissibile
$\sigma_{amm,Trazione}$
Tensione ammissibile di trazione cls
$\sigma_{cls,1}$
Tensione cls direzione 1
$\sigma_{cls,2}$
Tensione cls direzione 2
$\sigma_{acciaio,1}$
Tensione acciaio direzione 1
$\sigma_{acciaio,2}$
Tensione acciaio direzione 2
$cf_{x,Eq}$
Copriferro in direzione x
Af_x
Armatura in direzione x
$cf_{y,Eq}$
Copriferro in direzione y
Af_y
Armatura in direzione y
N_x, N_y, N_{xy}, M_{xx}, M_{yy}, M_{xy}
Componenti di sollecitazione esterna
N_{11}, N_{22}, M_{11}, M_{22}, M_{12}
Componenti di sollecitazione principali
α
Angolo direzioni principali
d
Distanza a cui è calcolato il perimetro critico
$\tau_{b,0}$
Tensione ammissibile a taglio elementi privi di armatura a taglio
$\tau_{b,1}$
Tensione ammissibile a taglio elementi con armatura a taglio

N, Mx, My
Sollecitazione esterna verifica a punzonamento
τ
Tensione tangenziale massima

Simbologia utilizzata S.L.:

f_{yd}
Tensione di snervamento di progetto barre armatura
ε_{ud}
Deformazione uniforme ultima
ε_{yd}
Deformazione al limite di snervamento
f_{ck}
Resistenza cilindrica caratteristica
f_{cd}
Tensione di calcolo a compressione di base
ε_{c2}
Deformazione limite elastico
ε_{y}
Deformazione limite ultimo
f_{ctd}
Tensione di calcolo a trazione di progetto
ε_{ctd}
Deformazione al limite di trazione
E_{cm}
Modulo elastico
$cf_{x,Eq}$
Copriferro in direzione x
Af_{x}
Armatura in direzione x
$cf_{y,Eq}$
Copriferro in direzione y
Af_{y}
Armatura in direzione y
N_x, N_y, N_{xy}, M_{xx}, M_{yy}, M_{xy}
Componenti di sollecitazione esterna
N_{11}, N_{22}, M_{11}, M_{22}, M_{12}
Componenti di sollecitazione principali
α
Angolo direzioni principali
Cr
Coefficiente rottura S_D/S_R
ε_{x}
Deformazione acciaio direzione x
ε_{y}
Deformazione acciaio direzione y
ε_{min}
Deformazione minima cls
ε_{max}

Deformazione massima cls

θ_{max}

Angolo direzioni principali di deformazione

σ_{amm}

Tensione ammissibile S.L.E. di riferimento

σ_x

Tensione nelle barre nello S.L.E. di riferimento in direzione x

σ_y

Tensione nelle barre nello S.L.E. di riferimento in direzione y

$\sigma_{c,Max}$

Tensione massima nel cls nello S.L.E. di riferimento

d

Distanza a cui è calcolato il perimetro critico

$C_{Rd,c}$

Coefficiente taglio resistente elementi privi di armatura a taglio

V_{Ed}, Mx_{Ed}, My_{Ed}

Sollecitazione esterna verifica a punzonamento

B_x,B_y

Dimensioni perimetro critico

β

Angolo diffusione tensioni

v_{Ed}

Tensione tangenziale sull'area critica

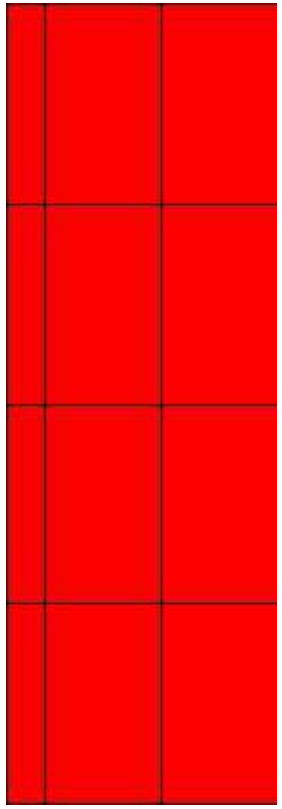
ρ

Rapporto meccanico di armatura

$V_{Rd,c}$

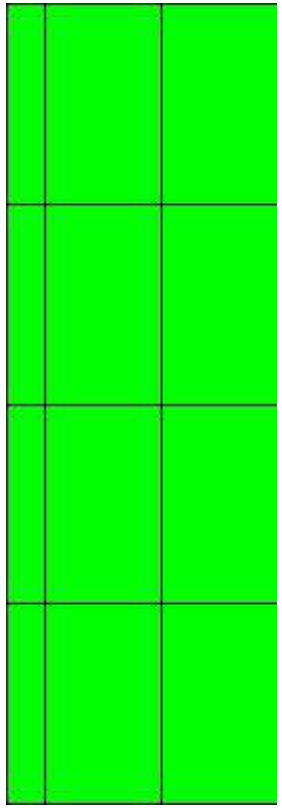
Taglio resistente elementi privi di armatura

Mappa armature di Estradosso



Colore	Armature
	top ø 12/20' X + ø 12/20' Y c=3.00 [cm]

Mappa armature di Intradosso



Colore	Armature
	bottom ø 12/20' X + ø 12/20' Y c=3.00 [cm]

Impostazioni di verifica

Curva σ/ε Calcestruzzo

- secondo Hognestad

Modellazione softening (trazione/compressione)

- $fc_{d,soft}$= fc_d 0.9/sqrt(1+400 et) / Hognestad

Modellazione compressione biassiale

- $fc_{d,biaxial} = fc_d\ (1 + 3.8\ \alpha)\ /\ (1.0+\alpha)^2\ /\ \alpha = ec1/ec2$ (EC2 Ponti 6.110)

Elementi più sollecitati per tipologia di sezione

Verifiche SLU *Flessione* elemento nodi 114 118

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 12.0 [kg/cm²]**
- **ε_{ctd} 0.08 ‰**
- **E_{cm} 141666.7 [kg/cm²]**

Sezione

- **sezione 2 H=20.00 [cm]**

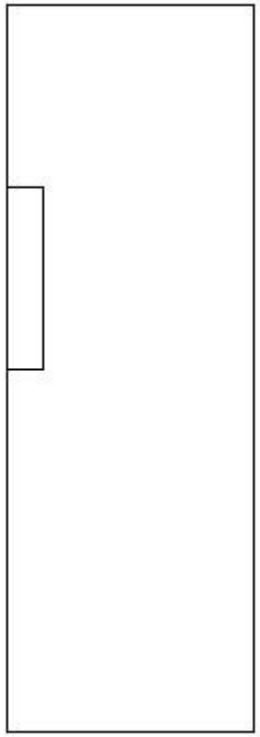
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	3.00	5.65	3.00	5.65	3.00	5.65	3.00

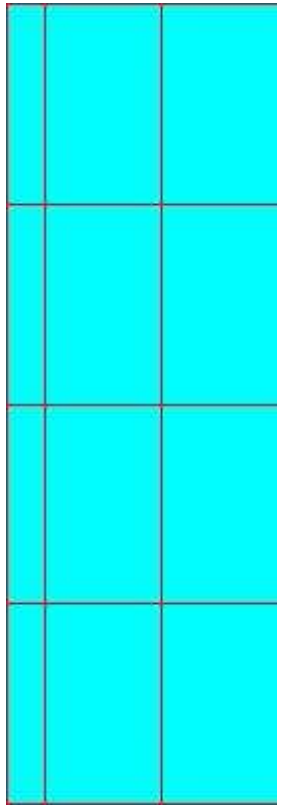
Azioni di verifica combinazione 2 (0.25 6.37 [m])

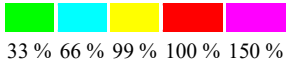
M_{xx}	-352.24	[kgm/m]	M_{11}	-220.31	[kgm/m]
M_y	-1677.45	[kgm/m]	M_{22}	-1809.38	[kgm/m]
M_{xy}	438.45	[kgm/m]	α	16.75	[°]

Verifiche

Cr=S/R	**Posizione**	**Acciaio**		**Calcestruzzo**		
		ε_x‰	**ε_y‰**	**ε_{min}‰**	**ε_{max}‰**	**θ [°]**
0.54	Estradosso	0.098	0.409	0.015	-3.500	17.54
	Intradosso	1.760	15.233	21.171	-0.186	-70.63







Verifiche SLE Rare *Flessione* elemento nodi 114 118

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 3600.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 150.0 [kg/cm²]**

Sezione

- **sezione 2 H=20.00 [cm]**

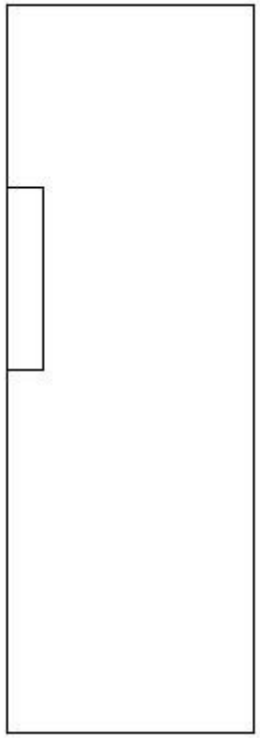
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	3.00	5.65	3.00	5.65	3.00	5.65	3.00

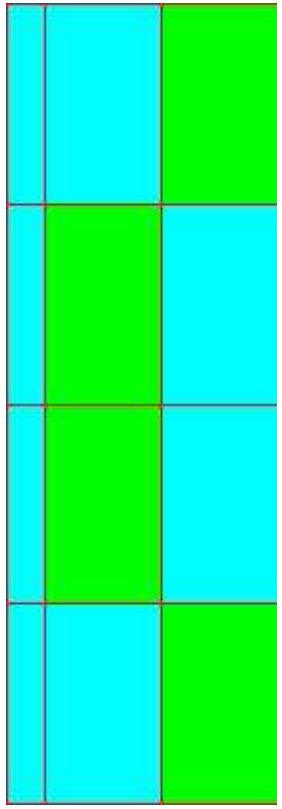
Azioni di verifica combinazione 37 (0.25 6.37 [m])

M_{xx}	-257.75	[kgm/m]	M_{11}	-162.59	[kgm/m]
M_y	-1215.05	[kgm/m]	M_{22}	-1310.21	[kgm/m]
M_{xy}	316.47	[kgm/m]	α	16.74	[°]

Verifiche

		Acciaio		**Calcestruzzo**			
Cr=S/R	**Posizione**	**σ_x [kg/cm²]**	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**	**Stato**	**Ampiezza Fessure mm**
0.39	Estradosso	-33.3	-157.1	-19.2	18.05		
	Intradosso	33.3	157.1	0.0	-71.95		





33 % 66 % 99 % 100 % 150 %

Verifiche SLE Frequenti *Flessione* elemento nodi 114 118

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 4500.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 250.0 [kg/cm²]**

Sezione

- **sezione 2 H=20.00 [cm]**

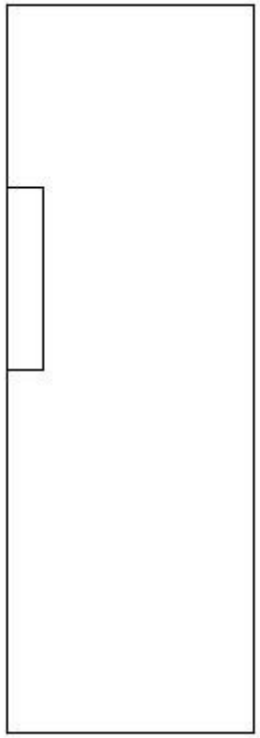
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	3.00	5.65	3.00	5.65	3.00	5.65	3.00

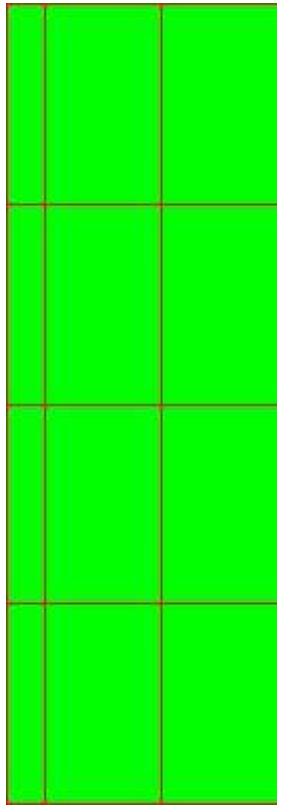
Azioni di verifica combinazione 40 (0.25 6.37 [m])

M_{xx}	-220.29	[kgm/m]	M_{11}	-141.67	[kgm/m]
M_y	-1003.33	[kgm/m]	M_{22}	-1081.96	[kgm/m]
M_{xy}	260.29	[kgm/m]	α	16.81	[°]

Verifiche

		Acciaio		**Calcestruzzo**			
Cr=S/R	**Posizione**	**σ_x [kg/cm²]**	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**	**Stato**	**Ampiezza Fessure mm**
0.32	Estradosso	-28.5	-129.7	-16.0	18.13		
	Intradosso	28.5	129.7	0.0	-71.87		





33 % 66 % 99 % 100 % 150 %

Verifiche SLE Quasi Permanenti *Flessione* elemento nodi 114 118

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 4500.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 112.5 [kg/cm²]**
- **w_{Max} 0.30 mm**

Sezione

- **sezione 2 H=20.00 [cm]**

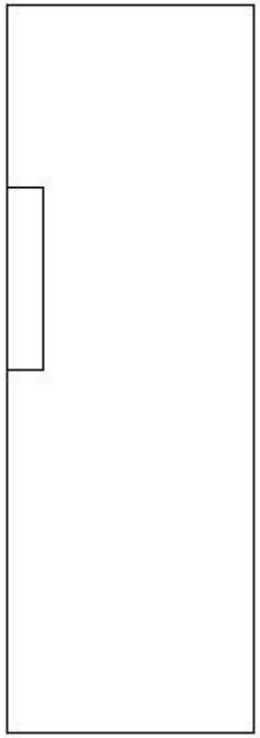
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	3.00	5.65	3.00	5.65	3.00	5.65	3.00

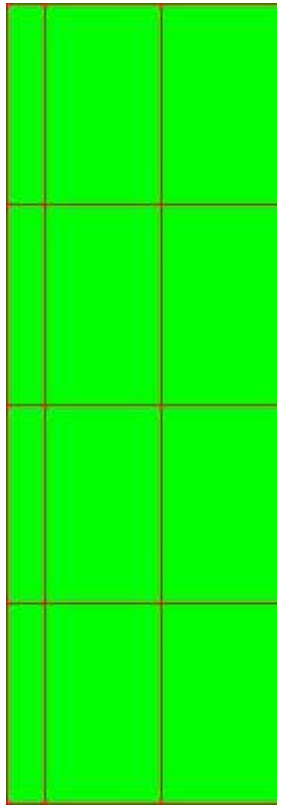
Azioni di verifica combinazione 42 (0.25 6.37 [m])

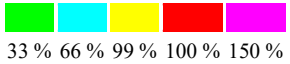
M_{xx}	-210.91	[kgm/m]	M_{11}	-136.38	[kgm/m]
M_y	-950.21	[kgm/m]	M_{22}	-1024.74	[kgm/m]
M_{xy}	246.27	[kgm/m]	α	16.84	[°]

Verifiche

Cr=S/R	**Posizione**	**Acciaio**		**Calcestruzzo**		**Stato**	**Ampiezza Fessure mm**
		σ_x [kg/cm²]	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**		
0.30	Estradosso	-27.3	-122.9	-15.2	18.16	NON Fessurato	0.000
	Intradosso	27.3	122.9	0.0	-71.84	NON Fessurato	0.000







Verifiche a PUNZONAMENTO Stati Limite

Dati di verifica

- **Distanza a cui è calcolato il perimetro critico d=H * 1.00**
- **Le tensioni nel terreno vanno ad equilibrare V_{Ed}**

Materiali

Calcestruzzo

- **f_{ck} 250.0 [kg/cm²]**
- **f_{cd} 141.7 [kg/cm²]**
- **$V_{Rd,max}$ 38.3 [kg/cm²]**
- **$C_{Rd,c}$ 0.12**

Acciaio

- **f_y 3913.0 [kg/cm²]**

Elemento	Perimetro Critico [cm]	H [cm]	Tipo	A_{soil} [m²]	Comb. Crit.	σ_{soil} [kg/cm²]	N_{Ed} [kN]	N_{soil} [kN]	V_{Ed} [kN]	Mx_{Ed} [kgm]	My_{Ed} [kgm]	B_x [cm]	B_y [cm]	Estradosso Af [cm²]/m	Estradosso cf [cm]	Intradosso Af [cm²]/m	Intradosso cf [cm]	d [cm]	W1 [cm²]	k (fr. 6.39)	β	k (fr. 6.47)	ρ	v_{Ed} [kg/cm²]	$V_{Rd,c}$ [kg/cm²]	U_o[cm]	$v_{Ed,max}$ [kg/cm²]
Diaframma Nodi 101...105 Sezione 1	1022.84	20.00	Bordo	0.0	2	0.0	196.56	0.00	196.56	-20060.8	-0.0	1020.00	20.00	5.65	3.00	5.65	3.00	17.00	26155014.04	0.502	1.40	2.000	0.0033	1.6	4.9	71.00	22.8
Diaframma Nodi 111...101 Sezione 1	331.66	20.00	Bordo	0.0	2	0.0	90.50	0.00	90.50	6420.3	10963.2	295.00	17.00	5.65	3.00	5.65	3.00	17.00	2435506.58	0.736	2.41	2.000	0.0033	3.9	4.9	68.00	18.8
Diaframma Nodi 115...105 Sezione 1	336.36	20.00	Bordo	0.0	2	0.0	90.50	0.00	90.50	-6420.3	10963.2	295.00	20.00	5.65	3.00	5.65	3.00	17.00	2520508.53	0.736	2.38	2.000	0.0033	3.8	4.9	71.00	17.8

- **En.Ex.Sys. WinStrand**
- **Verifiche lastre/piastre**

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
  -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -
    - Via statica equivalente.
    - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.

- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche travi

Modalità di verifica

Le travi vengono progettate-verificate a flessione retta e taglio nel piano longitudinale della trave sulla base dell'inviluppo delle sollecitazioni.

Viene comunque sempre predisposta l'armatura minima mentre gli sforzi di taglio vengono integralmente assorbiti dalle staffe.

Le operazioni di progetto-verifica vengono condotte, per ogni asta, in tre diverse sezioni e precisamente in corrispondenza dei fili esterni dei pilastri e della sezione in campata nella quale viene riscontrato il massimo momento positivo (negativo).

I momenti si intendono postivi se tendono le fibre di intradosso (inferiori).

Per quanto concerne il progetto e la verifica delle travi a taglio esse vengono condotte nel modo seguente:

- Si controlla se la trave necessita o meno di armatura aggiuntiva a taglio:
    1. Se non occorre armatura aggiuntiva a taglio si procede a disporre la staffatura minima di regolamento e la progettazione ha termine.
    2. Se occorre armatura aggiuntiva a taglio la staffatuta viene progettata andando a suddividere la trave, a seconda del caso, in uno, tre o cinque conci:
        - due tronchi in prossimità degli appoggi di lunghezza pari all'altezza della sezione;
        - due altri (eventuali) tronchi dall'ascissa precedente a quella in cui il taglio può essere assorbito con la sola staffatura minima da regolamento
        - un restante (eventuale) concio di chiusura centrale.
- In ogni caso l'armatura a taglio si intende simmetrica rispetto alla mezzeria della trave e viene progettata considerando, rispetto alla mezzeria, la zona della trave più sollecitata.

Per quanto concerne le verifiche a taglio esse vengono condotte suddividendo la trave in cinque conci:

due tronchi in prossimità degli appoggi di lunghezza pari all'altezza della sezione; due altri (eventuali) tronchi dall'ascissa precedente a quella in cui il taglio può essere assorbito con la sola staffatura minima da regolamento; il restante (eventuale) concio di chiusura centrale.

L'armatura a taglio si intende simmetrica rispetto alla mezzeria della trave e viene progettata considerando, rispetto alla mezzeria, la zona della trave più sollecitata.

Simbologia utilizzata:

Af Es.
: Area di ferro all'estradosso

Af In.
: Area di ferro all'intradosso

Sigb.Es.
: Tensione del calcestruzzo estradosso

Sigb. In.
: Tensione del calcestruzzo intradosso

Sigf. Es.
: Tensione dell'acciaio estradosso

Sigf. In.
: Tensione dell'acciaio intradosso

Sezioni Impiegate: Trave

Sezioni Nuove

Sez. Num.	Info	Dimensioni	Criterio	Calcestruzzo	γ_M	F.C.	f_{ck} [kg/cm²]	f_{cd} [kg/cm²]	σ_{RARE} [kg/cm²]	σ_{FREQ} [kg/cm²]	σ_{QP} [kg/cm²]	Acciaio	γ_M	F.C.	f_{yk} [kg/cm²]	f_{yd} [kg/cm²]	σ_{yRARE} [kg/cm²]	σ_{yFRE} [kg/cr

2	Rett. 70X50	B 70 [cm] H 50 [cm]	Vertrav	C25/30	1.50	1.00	250.0	141.7	150.0	250.0	112.5	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0

Verifica a fessurazione indiretta

Fattore di sovraresistenza Travi $\gamma_{R,d\ (Nuovo)}$=0.00 $\gamma_{R,d\ (Esistente)}$=0.00
Fattore di sovraresistenza delle azioni sulle Fondazioni $\gamma_{R,d\ (Nuovo)}$=0.00 $\gamma_{R,d\ (Esistente)}$=0.00

Verifiche Travate :

Travata: ***Travata 1 Nodi 1 2 3 4 5***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
1	0.13	5.35	7.40			262.6	9449.0	0.10	-468.3	-12616.4	0.10					
				SLE Rare		0.0			-98.4			0.6	0.0	2.9	31.2	
				SLE Freq.		0.0			-105.4			0.7	0.0	3.1	33.4	OK
				SLE Q.P.		0.0			-102.9			0.7	0.0	3.0	32.6	OK
Camp.	1.27	9.02	7.70	0.0	0.0	97.7	15142.0	0.11	-289.3	-13102.6	0.11					
				SLE Rare		0.0			-92.3			0.6	0.0	3.7	29.3	
				SLE Freq.		0.0			-97.0			0.6	0.0	3.9	30.8	OK
				SLE Q.P.		0.0			-94.2			0.6	0.0	3.8	29.9	OK
2	2.42	15.39	15.39			63.6	24943.3	0.14	-234.7	-24943.3	0.14					
				SLE Rare		0.0			-86.1			0.4	0.0	3.2	14.0	
				SLE Freq.		0.0			-88.6			0.4	0.0	3.3	14.4	OK
				SLE Q.P.		0.0			-85.6			0.4	0.0	3.2	13.9	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
2	0.13	15.39	15.39			178.1	24943.3	0.14	-212.8	-24943.3	0.14					
				SLE Rare		0.0			-17.8			0.1	0.0	0.7	2.9	
				SLE Freq.		0.0			-18.6			0.1	0.0	0.7	3.0	OK
				SLE Q.P.		0.0			-17.3			0.1	0.0	0.6	2.8	OK
Camp.	1.27	10.09	7.70	0.0	0.0	18.4	16791.8	0.12	-114.9	-13107.4	0.11					
				SLE Rare		0.0			-51.0			0.3	0.0	2.0	16.2	
				SLE Freq.		0.0			-47.0			0.3	0.0	1.8	14.9	OK
				SLE Q.P.		0.0			-45.7			0.3	0.0	1.8	14.5	OK
3	2.42	15.39	15.39			122.5	24943.3	0.14	-270.8	-24943.3	0.14					
				SLE Rare		0.0			-86.2			0.4	0.0	3.2	14.0	
				SLE Freq.		0.0			-76.0			0.3	0.0	2.8	12.4	OK
				SLE Q.P.		0.0			-74.2			0.3	0.0	2.7	12.1	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
3	0.13	15.39	15.39			125.0	24943.3	0.14	-273.3	-24943.3	0.14					
				SLE Rare		0.0			-86.2			0.4	0.0	3.2	14.0	
				SLE Freq.		0.0			-76.0			0.3	0.0	2.8	12.4	OK
				SLE Q.P.		0.0			-74.2			0.3	0.0	2.7	12.1	OK
Camp.	1.27	10.09	7.70	0.0	0.0	27.2	16791.8	0.12	-127.2	-13107.4	0.11					
				SLE Rare		0.0			-51.0			0.3	0.0	2.0	16.2	
				SLE Freq.		0.0			-47.0			0.3	0.0	1.8	14.9	OK
				SLE Q.P.		0.0			-45.7			0.3	0.0	1.8	14.5	OK
4	2.42	15.39	15.39			176.2	24943.3	0.14	-210.9	-24943.3	0.14					
				SLE Rare		0.0			-17.8			0.1	0.0	0.7	2.9	
				SLE Freq.		0.0			-18.6			0.1	0.0	0.7	3.0	OK
				SLE Q.P.		0.0			-17.3			0.1	0.0	0.6	2.8	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
4	0.12	15.39	15.39			48.4	24943.3	0.14	-219.5	-24943.3	0.14					
				SLE Rare		0.0			-86.1			0.4	0.0	3.2	14.0	
				SLE Freq.		0.0			-88.6			0.4	0.0	3.3	14.4	OK

				SLE Q.P.	0.0				-85.6		0.4	0.0	3.2	13.9	OK
Camp.	1.28	9.02	7.70	0.0	0.0	106.7	15142.0	0.11	-298.3	-13102.6	0.11				
				SLE Rare	0.0				-92.3		0.6	0.0	3.7	29.3	
				SLE Freq.	0.0				-97.0		0.6	0.0	3.9	30.8	OK
				SLE Q.P.	0.0				-94.2		0.6	0.0	3.8	29.9	OK
5	2.43	5.35	7.40			271.6	9449.0	0.10	-477.4	-12616.4	0.10				
				SLE Rare	0.0				-98.4		0.6	0.0	2.9	31.2	
				SLE Freq.	0.0				-105.4		0.7	0.0	3.1	33.4	OK
				SLE Q.P.	0.0				-102.9		0.7	0.0	3.0	32.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave 1 2 Sez. 2 Rett. 70x50 [cm] 70X50											
0.13	2.42	2.30	1.00	2.16	117.87	995.37	210.54	1287.7	19204.6	5147.1	ø 8 4br. 15.0'
Trave 2 3 Sez. 2 Rett. 70x50 [cm] 70X50											
0.13	2.42	2.30	1.00	1.83	117.87	995.37	210.54	826.2	19204.6	5147.1	ø 8 4br. 15.0'
Trave 3 4 Sez. 2 Rett. 70x50 [cm] 70X50											
0.13	2.42	2.30	1.00	1.83	117.87	995.37	210.54	826.2	19204.6	5147.1	ø 8 4br. 15.0'
Trave 4 5 Sez. 2 Rett. 70x50 [cm] 70X50											
0.12	2.43	2.30	1.00	2.16	117.87	995.37	210.54	1287.7	19204.6	5147.1	ø 8 4br. 15.0'

Travata: ***Travata 2 Nodi 11 12 13 14 15***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
11	0.13	5.35	7.40			845.9	9449.0	0.10	-1104.6	-12616.4	0.10					
				SLE Rare		0.0			-143.3			0.9	0.0	4.2	45.4	
				SLE Freq.		0.0			-132.2			0.8	0.0	3.9	41.9	OK
				SLE Q.P.		0.0			-129.3			0.8	0.0	3.8	41.0	OK
Camp.	1.27	9.02	7.70	0.0	0.0	435.6	15142.1	0.11	-297.1	-13102.6	0.11					
				SLE Rare		154.8			0.0			0.0	0.9	42.2	6.4	
				SLE Freq.		122.4			0.0			0.0	0.7	33.3	5.1	OK
				SLE Q.P.		112.9			0.0			0.0	0.6	30.8	4.7	OK
12	2.42	15.39	15.39			1268.7	24943.3	0.14	-558.6	-24943.3	0.14					
				SLE Rare		452.9			0.0			0.0	2.0	73.6	16.7	
				SLE Freq.		377.0			0.0			0.0	1.6	61.3	13.9	OK
				SLE Q.P.		355.0			0.0			0.0	1.5	57.7	13.1	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
12	0.13	15.39	15.39			960.2	24943.3	0.14	-606.2	-24943.3	0.14					
				SLE Rare		262.2			0.0			0.0	1.1	42.6	9.7	
				SLE Freq.		205.2			0.0			0.0	0.9	33.3	7.6	OK
				SLE Q.P.		186.3			0.0			0.0	0.8	30.3	6.9	OK
Camp.	1.27	10.09	7.70	0.0	0.0	998.5	16791.8	0.12	-763.9	-13107.4	0.11					
				SLE Rare		196.1			0.0			0.0	1.1	48.0	8.2	
				SLE Freq.		145.6			0.0			0.0	0.8	35.6	6.1	OK
				SLE Q.P.		127.8			0.0			0.0	0.7	31.3	5.3	OK
13	2.42	15.39	15.39			1125.2	24943.3	0.14	-986.5	-24943.3	0.14					
				SLE Rare		130.0			0.0			0.0	0.6	21.1	4.8	
				SLE Freq.		86.1			0.0			0.0	0.4	14.0	3.2	OK
				SLE Q.P.		69.3			0.0			0.0	0.3	11.3	2.6	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
13	0.13	15.39	15.39			1073.6	24943.3	0.14	-934.9	-24943.3	0.14					
				SLE Rare		130.0			0.0			0.0	0.6	21.1	4.8	

					SLE Freq.	86.1			0.0		0.0	0.4	14.0	3.2	OK
					SLE Q.P.	69.3			0.0		0.0	0.3	11.3	2.6	OK
Camp.	1.27	10.09	7.70	0.0	0.0	946.9	16791.8	0.12	-712.3	-13107.4	0.11				
					SLE Rare	196.1			0.0		0.0	1.1	48.0	8.2	
					SLE Freq.	145.6			0.0		0.0	0.8	35.6	6.1	OK
					SLE Q.P.	127.8			0.0		0.0	0.7	31.3	5.3	OK
14	2.42	15.39	15.39			981.8	24943.3	0.14	-609.2	-24943.3	0.14				
					SLE Rare	262.2			0.0		0.0	1.1	42.6	9.7	
					SLE Freq.	205.2			0.0		0.0	0.9	33.3	7.6	OK
					SLE Q.P.	186.3			0.0		0.0	0.8	30.3	6.9	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50															
14	0.13	15.39	15.39			1292.3	24943.3	0.14	-582.2	-24943.3	0.14				
					SLE Rare	452.9			0.0		0.0	2.0	73.6	16.7	
					SLE Freq.	377.0			0.0		0.0	1.6	61.3	13.9	OK
					SLE Q.P.	355.0			0.0		0.0	1.5	57.7	13.1	OK
Camp.	1.28	9.02	7.70	0.0	0.0	466.5	15142.0	0.11	-295.8	-13102.6	0.11				
					SLE Rare	154.8			0.0		0.0	0.9	42.2	6.4	
					SLE Freq.	122.4			0.0		0.0	0.7	33.3	5.1	OK
					SLE Q.P.	112.9			0.0		0.0	0.6	30.8	4.7	OK
15	2.43	5.35	7.40			813.7	9449.0	0.10	-1072.4	-12616.4	0.10				
					SLE Rare	0.0			-143.3		0.9	0.0	4.2	45.4	
					SLE Freq.	0.0			-132.2		0.8	0.0	3.9	41.9	OK
					SLE Q.P.	0.0			-129.3		0.8	0.0	3.8	41.0	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave 11 12 Sez. 2 Rett. 70x50 [cm] 70X50											
0.13	2.42	2.30	1.00	10.06	117.87	995.37	210.54	1673.3	19204.6	5147.1	ø 8 4br. 15.0'
Trave 12 13 Sez. 2 Rett. 70x50 [cm] 70X50											
0.13	2.42	2.30	1.00	3.41	117.87	995.37	210.54	822.6	19204.6	5147.1	ø 8 4br. 15.0'
Trave 13 14 Sez. 2 Rett. 70x50 [cm] 70X50											
0.13	2.42	2.30	1.00	3.41	117.87	995.37	210.54	822.6	19204.6	5147.1	ø 8 4br. 15.0'
Trave 14 15 Sez. 2 Rett. 70x50 [cm] 70X50											
0.13	2.43	2.30	1.00	10.06	117.87	995.37	210.54	1673.3	19204.6	5147.1	ø 8 4br. 15.0'

Travata: ***Travata 3 Nodi 1 6 11***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
1	0.13	5.69	7.40			554.4	9986.6	0.10	-228.3	-12620.0	0.10					
					SLE Rare	336.4			0.0		0.0	2.3	99.5	12.6		
					SLE Freq.	281.4			0.0		0.0	2.0	83.2	10.5	OK	
					SLE Q.P.	266.0			0.0		0.0	1.9	78.6	9.9	OK	
Camp.	0.80	12.64	15.39	775.5	105.4	33.3	20725.8	0.13	-803.8	-24946.2	0.14					
					SLE Rare	0.0			-393.0		1.7	0.0	15.1	63.9		
					SLE Freq.	0.0			-396.4		1.8	0.0	15.2	64.5	OK	
					SLE Q.P.	0.0			-387.4		1.7	0.0	14.9	63.0	OK	
6	1.48	15.39	15.39			0.0	24943.3	0.14	-1218.3	-24943.3	0.14					
					SLE Rare	0.0			-862.0		3.7	0.0	31.9	140.1		
					SLE Freq.	0.0			-819.9		3.6	0.0	30.3	133.2	OK	
					SLE Q.P.	0.0			-805.2		3.5	0.0	29.8	130.9	OK	
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
6	0.00	15.39	15.39			0.0	24943.3	0.14	-2118.0	-24943.3	0.14					

				SLE Rare	0.0			-1504.0		6.5	0.0	55.6	244.4	
				SLE Freq.	0.0			-1367.2		5.9	0.0	50.5	222.2	OK
				SLE Q.P.	0.0			-1342.0		5.8	0.0	49.6	218.1	OK
Camp.	0.68	15.38	15.39	775.5	105.4	0.0	24919.8	0.14	-1729.2	-24943.3	0.14			
				SLE Rare	0.0			-1065.5		4.6	0.0	39.4	173.2	
				SLE Freq.	0.0			-964.8		4.2	0.0	35.7	156.8	OK
				SLE Q.P.	0.0			-944.2		4.1	0.0	34.9	153.4	OK
11	1.35	5.69	7.40		248.8	9986.6	0.10	-1022.1	-12620.0	0.10				
				SLE Rare	0.0			-391.5		2.5	0.0	11.5	124.2	
				SLE Freq.	0.0			-326.9		2.1	0.0	9.6	103.7	OK
				SLE Q.P.	0.0			-310.8		2.0	0.0	9.1	98.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave 1 6 Sez. 2 Rett. 70x50 [cm] 70X50											
0.13	1.48	1.35	1.00	17.65	117.87	995.37	210.54	1183.5	19204.6	5147.1	ø 8 4br. 15.0'
Trave 6 11 Sez. 2 Rett. 70x50 [cm] 70X50											
0.00	1.35	1.35	1.00	17.89	117.87	995.37	210.54	1316.7	19204.6	5147.1	ø 8 4br. 15.0'

Travata: ***Travata 4 Nodi 2 7 12***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
2	0.30	6.16	6.16			166.4	10693.9	0.10	-2728.3	-10693.9	0.10					
				SLE Rare		0.0			-1274.1			8.7	0.0	51.8	502.2	
				SLE Freq.		0.0			-1247.0			8.5	0.0	50.7	491.6	OK
				SLE Q.P.		0.0			-1221.7			8.3	0.0	49.7	481.6	OK
Camp.	0.83	6.16	6.16	0.0	0.0	0.0	10693.9	0.10	-3088.9	-10693.9	0.10					
				SLE Rare		0.0			-1783.7			12.1	0.0	72.5	703.1	
				SLE Freq.		0.0			-1748.1			11.9	0.0	71.1	689.1	OK
				SLE Q.P.		0.0			-1708.0			11.6	0.0	69.5	673.3	OK
7	1.37	6.16	6.16			0.0	10693.9	0.10	-3354.0	-10693.9	0.10					
				SLE Rare		0.0			-2294.3			15.6	0.0	93.3	904.4	
				SLE Freq.		0.0			-2249.2			15.3	0.0	91.5	886.6	OK
				SLE Q.P.		0.0			-2194.3			14.9	0.0	89.2	865.0	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
7	0.00	6.16	6.16			0.0	10693.9	0.10	-3485.5	-10693.9	0.10					
				SLE Rare		0.0			-2357.9			16.0	0.0	95.9	929.5	
				SLE Freq.		0.0			-2304.4			15.7	0.0	93.7	908.4	OK
				SLE Q.P.		0.0			-2242.0			15.2	0.0	91.2	883.8	OK
Camp.	0.53	6.16	6.16	0.0	0.0	0.0	10693.9	0.10	-2980.0	-10693.9	0.10					
				SLE Rare		0.0			-1842.9			12.5	0.0	74.9	726.5	
				SLE Freq.		0.0			-1801.3			12.2	0.0	73.3	710.1	OK
				SLE Q.P.		0.0			-1751.2			11.9	0.0	71.2	690.3	OK
12	1.07	6.16	6.16			0.0	10693.9	0.10	-2349.1	-10693.9	0.10					
				SLE Rare		0.0			-1327.9			9.0	0.0	54.0	523.5	
				SLE Freq.		0.0			-1298.2			8.8	0.0	52.8	511.8	OK
				SLE Q.P.		0.0			-1260.4			8.6	0.0	51.3	496.8	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe

Trave 2 7 Sez. 2 Rett. 70x50 [cm] 70X50

0.37 1.27 0.90 1.00 12.09 117.87 995.37 210.54 1294.2 19204.6 5147.1 ø 8 4br. 15.0'

Trave 7 12 Sez. 2 Rett. 70x50 [cm] 70X50

0.00 0.90 0.90 1.00 11.97 117.87 995.37 210.54 1163.9 19204.6 5147.1 ø 8 4br. 15.0'

Travata: ***Travata 5 Nodi 3 8 13***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
3	0.13	5.69	7.40			301.4	9986.6	0.10	-2463.3	-12620.0	0.10					
				SLE Rare		0.0			-1023.9			6.5	0.0	30.1	324.7	
				SLE Freq.		0.0			-1041.4			6.6	0.0	30.6	330.2	OK
				SLE Q.P.		0.0			-1012.0			6.4	0.0	29.8	320.9	OK
Camp.	0.80	15.38	15.39	0.0	0.0	0.0	24919.8	0.14	-2913.2	-24943.3	0.14					
				SLE Rare		0.0			-1741.0			7.6	0.0	64.4	282.9	
				SLE Freq.		0.0			-1736.8			7.5	0.0	64.2	282.3	OK
				SLE Q.P.		0.0			-1689.0			7.3	0.0	62.4	274.5	OK
8	1.48	15.39	15.39			0.0	24943.3	0.14	-3626.3	-24943.3	0.14					
				SLE Rare		0.0			-2458.1			10.7	0.0	90.9	399.5	
				SLE Freq.		0.0			-2432.2			10.6	0.0	89.9	395.3	OK
				SLE Q.P.		0.0			-2366.1			10.3	0.0	87.4	384.5	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
8	0.00	15.39	15.39			0.0	24943.3	0.14	-4076.5	-24943.3	0.14					
				SLE Rare		0.0			-2739.8			11.9	0.0	101.3	445.3	
				SLE Freq.		0.0			-2686.4			11.7	0.0	99.3	436.6	OK
				SLE Q.P.		0.0			-2608.2			11.3	0.0	96.4	423.9	OK
Camp.	0.68	15.38	15.39	0.0	0.0	0.0	24919.8	0.14	-3412.3	-24943.3	0.14					
				SLE Rare		0.0			-2085.8			9.1	0.0	77.1	339.0	
				SLE Freq.		0.0			-2047.8			8.9	0.0	75.7	332.8	OK
				SLE Q.P.		0.0			-1985.5			8.6	0.0	73.4	322.7	OK
13	1.35	6.35	7.40			0.0	11005.7	0.10	-2633.5	-12626.2	0.10					
				SLE Rare		0.0			-1431.8			9.0	0.0	45.2	454.1	
				SLE Freq.		0.0			-1409.3			8.9	0.0	44.5	447.0	OK
				SLE Q.P.		0.0			-1362.7			8.6	0.0	43.1	432.2	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave 3 8 Sez. 2 Rett. 70x50 [cm] 70X50											
0.13	1.48	1.35	1.00	15.75	117.87	995.37	210.54	474.4	19204.6	5147.1	ø 8 4br. 15.0'
Trave 8 13 Sez. 2 Rett. 70x50 [cm] 70X50											
0.00	1.35	1.35	1.00	14.19	117.87	995.37	210.54	413.1	19204.6	5147.1	ø 8 4br. 15.0'

Travata: ***Travata 6 Nodi 4 9 14***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
4	0.13	5.69	7.40			255.0	9986.6	0.10	-2676.1	-12620.0	0.10					
				SLE Rare		0.0			-1200.7			7.6	0.0	35.3	380.8	
				SLE Freq.		0.0			-1174.4			7.4	0.0	34.6	372.4	OK
				SLE Q.P.		0.0			-1151.3			7.3	0.0	33.9	365.1	OK

Camp.	0.80	15.38	15.39	0.0	0.0	0.0	24919.8	0.14	-3062.8	-24943.3	0.14						
				SLE Rare		0.0			-1746.7			7.6	0.0	64.6	283.9		
				SLE Freq.		0.0			-1711.8			7.4	0.0	63.3	278.2	OK	
				SLE Q.P.		0.0			-1672.8			7.3	0.0	61.8	271.9	OK	
9	1.48	15.39	15.39			0.0	24943.3	0.14	-3354.0	-24943.3	0.14						
				SLE Rare		0.0			-2294.3			10.0	0.0	84.8	372.9		
				SLE Freq.		0.0			-2249.2			9.8	0.0	83.1	365.5	OK	
				SLE Q.P.		0.0			-2194.3			9.5	0.0	81.1	356.6	OK	
Trave Sez. 2 Rett. 70x50 [cm] 70X50																	
9	0.00	15.39	15.39			0.0	24943.3	0.14	-3485.5	-24943.3	0.14						
				SLE Rare		0.0			-2357.9			10.2	0.0	87.1	383.2		
				SLE Freq.		0.0			-2304.4			10.0	0.0	85.2	374.5	OK	
				SLE Q.P.		0.0			-2242.0			9.7	0.0	82.9	364.4	OK	
Camp.	0.68	15.38	15.39	0.0	0.0	0.0	24919.8	0.14	-2925.5	-24943.3	0.14						
				SLE Rare		0.0			-1805.6			7.8	0.0	66.7	293.4		
				SLE Freq.		0.0			-1764.9			7.7	0.0	65.2	286.8	OK	
				SLE Q.P.		0.0			-1715.6			7.4	0.0	63.4	278.8	OK	
14	1.35	6.35	7.40			0.0	11005.7	0.10	-2299.8	-12626.2	0.10						
				SLE Rare		0.0			-1253.4			7.9	0.0	39.6	397.5		
				SLE Freq.		0.0			-1225.4			7.7	0.0	38.7	388.7	OK	
				SLE Q.P.		0.0			-1189.3			7.5	0.0	37.6	377.2	OK	

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave 4 9 Sez. 2 Rett. 70x50 [cm] 70X50											
0.13	1.48	1.35	1.00	12.09	117.87	995.37	210.54	1294.2	19204.6	5147.1	ø 8 4br. 15.0'
Trave 9 14 Sez. 2 Rett. 70x50 [cm] 70X50											
0.00	1.35	1.35	1.00	11.97	117.87	995.37	210.54	1163.9	19204.6	5147.1	ø 8 4br. 15.0'

Travata: ***Travata 7 Nodi 5 10 15***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
5	0.13	5.69	7.40			556.1	9986.6	0.10	-230.1	-12620.0	0.10					
				SLE Rare		336.4			0.0			0.0	2.3	99.4	12.6	
				SLE Freq.		281.3			0.0			0.0	2.0	83.2	10.5	OK
				SLE Q.P.		265.9			0.0			0.0	1.9	78.6	9.9	OK
Camp.	0.80	12.64	15.39	775.5	105.4	34.3	20725.8	0.13	-803.8	-24946.2	0.14					
				SLE Rare		0.0			-393.0			1.7	0.0	15.1	63.9	
				SLE Freq.		0.0			-396.4			1.8	0.0	15.2	64.5	OK
				SLE Q.P.		0.0			-387.4			1.7	0.0	14.9	63.0	OK
10	1.48	15.39	15.39			0.0	24943.3	0.14	-1218.3	-24943.3	0.14					
				SLE Rare		0.0			-862.0			3.7	0.0	31.9	140.1	
				SLE Freq.		0.0			-819.9			3.6	0.0	30.3	133.2	OK
				SLE Q.P.		0.0			-805.2			3.5	0.0	29.8	130.9	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
10	0.00	15.39	15.39			0.0	24943.3	0.14	-2118.0	-24943.3	0.14					
				SLE Rare		0.0			-1504.0			6.5	0.0	55.6	244.4	
				SLE Freq.		0.0			-1367.2			5.9	0.0	50.5	222.2	OK
				SLE Q.P.		0.0			-1342.0			5.8	0.0	49.6	218.1	OK
Camp.	0.68	15.38	15.39	775.5	105.4	0.0	24919.8	0.14	-1729.2	-24943.3	0.14					
				SLE Rare		0.0			-1065.5			4.6	0.0	39.4	173.2	
				SLE Freq.		0.0			-964.8			4.2	0.0	35.7	156.8	OK

				SLE Q.P.	0.0		-944.2		4.1	0.0	34.9	153.4	OK
15	1.35	6.35	7.40		0.0	11005.7	0.10	-869.7	-12626.2	0.10			
				SLE Rare	0.0		-391.5		2.5	0.0	12.4	124.2	
				SLE Freq.	0.0		-326.8		2.1	0.0	10.3	103.7	OK
				SLE Q.P.	0.0		-310.8		2.0	0.0	9.8	98.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	T_{Ed} [kgm]	T_{Rcd} [kgm]	T_{Rsd} [kgm]	Staffe
Trave 5 10 Sez. 2 Rett. 70x50 [cm] 70X50											
0.13	1.48	1.35	1.00	17.65	117.87	995.37	210.54	1183.5	19204.6	5147.1	ø 8 4br. 15.0'
Trave 10 15 Sez. 2 Rett. 70x50 [cm] 70X50											
0.00	1.35	1.35	1.00	17.89	117.87	995.37	210.54	1316.7	19204.6	5147.1	ø 8 4br. 15.0'

- En.Ex.Sys. WinStrand
- Verifiche travi

AMPLIAMENTO CIMITERO CIVICO – CORPO B

ELENCO DOCUMENTAZIONE

- INPUT ED OUTPUT STRUTTURALI
- VERIFICA PI DELTA SLD
- VERIFICA PI DELTA SLV
- VERIFICA SPOSTAMENTI DIFFERENZIALI
- VERIFICA PALI DI FONDAZIONE
- VERIFICA SETTI C.A.
- VERIFICA SOLETTA DI BASE C.A.
- VERIFICA SOLETTA C.A. DI COPERTURA
- VERIFICA TRAVI C.A.

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
  -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -
    - Via statica equivalente.
    - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.

- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Indice

Dati relativi ai nodi della struttura

Convenzioni adottate

La terna di riferimento generale è destrorsa.

I nodi vengono numerati, con riferimento a una sezione orizzontale, da sinistra a destra, dal basso verso l'alto e per quote crescenti.

L'impalcato di appartenenza di un nodo è definito, in generale, dalla prima delle tre cifre che ne definiscono il numero, possono tuttavia presentarsi casi in cui si hanno più di 100 nodi per solaio nel qual caso il solaio di appartenenza è specificato dall'ultimo valore stampato nella riga dei dati relativi al nodo.

La maschera dei vincoli è costituita dai valori 0 e 1. Il valore 1 indica che per il nodo in riferimento il grado di libertà correlativo è soppresso mentre il valore 0 indica che è libero.

Nel caso di edifici civili multipiano l'asse *z* generale coincide con l'asse verticale rivolto verso l'alto.

Nodi

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
1	0.00	0.00	0.00	0	0	0	0	0	0	0
2	2.80	0.00	0.00	0	0	0	0	0	0	0
3	5.60	0.00	0.00	0	0	0	0	0	0	0
4	8.40	0.00	0.00	0	0	0	0	0	0	0
5	0.00	1.48	0.00	0	0	0	0	0	0	0
6	2.80	1.48	0.00	0	0	0	0	0	0	0
7	5.60	1.48	0.00	0	0	0	0	0	0	0
8	8.40	1.48	0.00	0	0	0	0	0	0	0
9	0.00	2.95	0.00	0	0	0	0	0	0	0
10	2.80	2.95	0.00	0	0	0	0	0	0	0
11	5.60	2.95	0.00	0	0	0	0	0	0	0

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
12	8.40	2.95	0.00	0	0	0	0	0	0	0
13	0.00	0.00	2.35	0	0	0	0	0	0	0
14	2.80	0.00	2.35	0	0	0	0	0	0	0
15	5.60	0.00	2.35	0	0	0	0	0	0	0
16	8.40	0.00	2.35	0	0	0	0	0	0	0
17	0.00	1.48	2.35	0	0	0	0	0	0	0
18	8.40	1.48	2.35	0	0	0	0	0	0	0
19	0.00	2.95	2.35	0	0	0	0	0	0	0
20	8.40	2.95	2.35	0	0	0	0	0	0	0
101	0.00	0.00	4.70	0	0	0	0	0	0	1
102	2.80	0.00	4.70	0	0	0	0	0	0	1
103	5.60	0.00	4.70	0	0	0	0	0	0	1
104	8.40	0.00	4.70	0	0	0	0	0	0	1
105	0.00	1.48	4.70	0	0	0	0	0	0	1
106	2.80	1.48	4.70	0	0	0	0	0	0	1
107	5.60	1.48	4.70	0	0	0	0	0	0	1
108	8.40	1.48	4.70	0	0	0	0	0	0	1
109	0.00	2.95	4.70	0	0	0	0	0	0	1
110	2.80	2.95	4.70	0	0	0	0	0	0	1
111	5.60	2.95	4.70	0	0	0	0	0	0	1
112	8.40	2.95	4.70	0	0	0	0	0	0	1
113	-1.85	0.00	4.70	0	0	0	0	0	0	1
114	-1.85	1.48	4.70	0	0	0	0	0	0	1
115	-1.85	2.95	4.70	0	0	0	0	0	0	1
116	-1.85	3.45	4.70	0	0	0	0	0	0	1
117	0.00	3.45	4.70	0	0	0	0	0	0	1
118	2.80	3.45	4.70	0	0	0	0	0	0	1
119	5.60	3.45	4.70	0	0	0	0	0	0	1
120	8.40	3.45	4.70	0	0	0	0	0	0	1

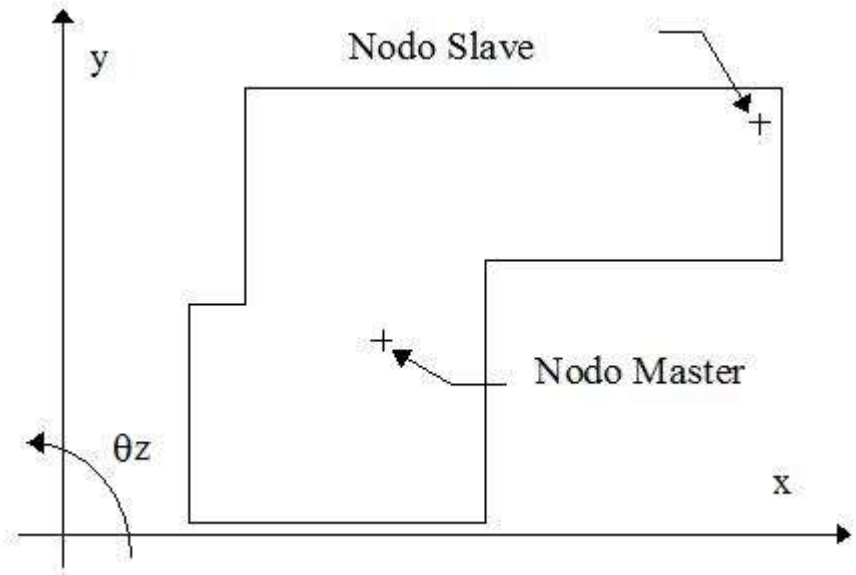
Dati relativi ai solai della struttura

Convenzioni adottate

Nel seguito con la dizione *solai* **non** sono individuati i solai che effetivamente verranno realizzati nella struttura bensi gli orizzonatamenti ai quali appartengono nodi per i quali vale l'ipotesi di impalcato infinitamente rigido.

Seguendo tale ipotesi di calcolo, le componenti di spostamento del singolo nodo di impalcato vengono in parte riferite a quelle di un nodo *master*, solitamente coincidente con il centro di massa dell'impalcato. In particolare le componenti di spostamento nodale sono cosi definite:

Componente di spostamento	espressa da
U_x	$U_{xMaster} - \theta_{zMaster} \times (Y_{Master} - Y_{Nodo})$
U_y	$U_{yMaster} + \theta_{zMaster} \times (X_{Master} - X_{Nodo})$
U_z	U_{zNodo}
θ_x	θ_{xNodo}
θ_y	θ_{yNodo}
θ_z	$\theta_{zMaster}$



Solaio	x [m]	y [m]	z [m]	Massa [UTM]	Jpolare [UTM m²]
1	3.67	1.29	4.70	3980.1	44320.5

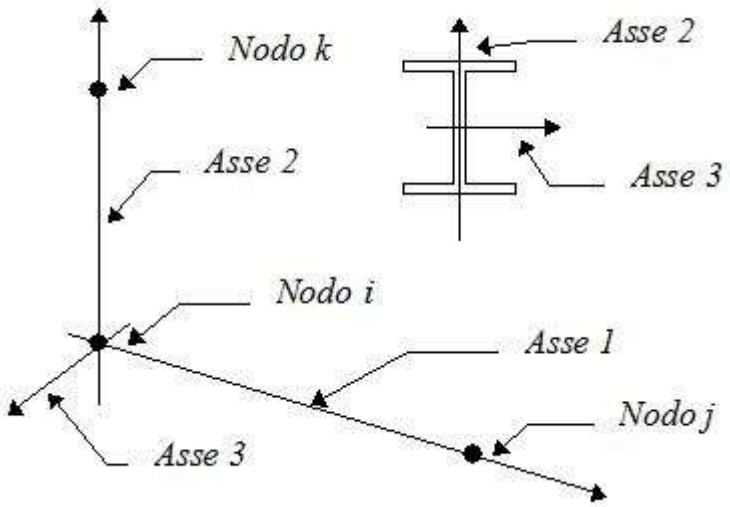
Elementi tipo trave

Convenzioni adottate

Ogni elemento tipo trave viene identificato da:

- Il nodo iniziale **i**;
- Il nodo finale **j**;
- Il nodo **k** che definisce l'orientamento nello spazio della terna riferimento locale dell'elemento.

La terna di riferimento locale della trave risulta essere così disposta:



Vengono riportati i valori di efficacia dei vincoli alle estreità dello elemento (variabili fra 0 e 100%), nei due piani **1-2** e **1-3** della trave in corrispondenza dei nodi, dando quindi la possibilità di considerare aste non perfettamente incastrate (coefficienti **Vi12, Vj12, Vi13, Vj13**).

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm²]	ν	alfa [1/°C]	Peso Specifico [kg/m³]	Commento
1	300000.0	0.120	0.000012	2500.0	Calcestruzzo
2	2100000.0	0.330	0.000012	7850.0	Acciaio

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	1	Rett.	B= 25 H= 25 [cm] AUSILIARIA
2	1	Rett.	B= 70 H= 50 [cm] 70X50

Caratteristiche Inerziali:

Sezione	Materiale	Area [cm²]	Jt [cm^4]	J2 [cm^4]	J3 [cm^4]	J23 [cm^4]	Xx	Xy
1	1	625.00	54912	32552	32552	0	1.2	1.2
2	1	3500.00	1564944	729167	1429166	0	1.2	1.2

Dal Nodo	Al Nodo	Nodo k	Luce [m]	Materiale	Sezione	Fixity factors								Rigid-end [m]	
						V_{i12}	V_{j12}	V_{i13}	V_{j13}	N_i	N_j	T_i	T_j	d_{ri}	d_{rj}
2	1	10003	2.80	1	2	100	100	100	100	100	100	100	100	0.00	0.00
3	2	10003	2.80	1	2	100	100	100	100	100	100	100	100	0.00	0.00
4	3	10003	2.80	1	2	100	100	100	100	100	100	100	100	0.00	0.00
9	10	10004	2.80	1	2	100	100	100	100	100	100	100	100	0.00	0.00
10	11	10004	2.80	1	2	100	100	100	100	100	100	100	100	0.00	0.00
11	12	10004	2.80	1	2	100	100	100	100	100	100	100	100	0.00	0.00
1	5	10000	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
5	9	10000	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
2	6	10006	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
6	10	10006	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
3	7	10005	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
7	11	10005	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
4	8	10002	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
8	12	10002	1.48	1	2	100	100	100	100	100	100	100	100	0.00	0.00
101	113	10002	1.85	1	1	100	100	100	100	100	100	100	100	0.00	0.00
101	102	10002	2.80	1	1	100	100	100	100	100	100	100	100	0.00	0.00
102	103	10002	2.80	1	1	100	100	100	100	100	100	100	100	0.00	0.00
103	104	10002	2.80	1	1	100	100	100	100	100	100	100	100	0.00	0.00
116	117	10001	1.85	1	1	100	100	100	100	100	100	100	100	0.00	0.00
118	117	10001	2.80	1	1	100	100	100	100	100	100	100	100	0.00	0.00
119	118	10001	2.80	1	1	100	100	100	100	100	100	100	100	0.00	0.00
120	119	10001	2.80	1	1	100	100	100	100	100	100	100	100	0.00	0.00
113	114	10003	1.48	1	1	100	100	100	100	100	100	100	100	0.00	0.00
114	115	10003	1.48	1	1	100	100	100	100	100	100	100	100	0.00	0.00
115	116	10003	0.50	1	1	100	100	100	100	100	100	100	100	0.00	0.00
105	101	10000	1.48	1	1	100	100	100	100	100	100	100	100	0.00	0.00

109	105	10000	1.48	1	1	100	100	100	100	100	100	100	100	0.00	0.00
117	109	10000	0.50	1	1	100	100	100	100	100	100	100	100	0.00	0.00
104	108	10002	1.48	1	1	100	100	100	100	100	100	100	100	0.00	0.00
108	112	10002	1.48	1	1	100	100	100	100	100	100	100	100	0.00	0.00
112	120	10002	0.50	1	1	100	100	100	100	100	100	100	100	0.00	0.00

Pali o gruppi di pali di fondazione

Convenzioni adottate

Il *palo* o il *gruppo di pali* di fondazione vengono schematizzati nel codice di calcolo assimilandoli ad un elemento *boundary*, agente nel nodo definito dall'operatore, ed in grado di reagire lungo le sei componenti di spostamento possibili per il nodo.

La matrice di rigidezza dell'elemento *palo* o *gruppo di pali* risulta pertanto essere cosi composta:

	U_x	U_y	U_z	R_x	R_y	R_z
U_x	K_{UxUx}	K_{UxUy}	K_{UxUz}	K_{UxRx}	K_{UxRy}	K_{UxRz}
U_y		K_{UyUy}	K_{UyUz}	K_{UyRx}	K_{UyRy}	K_{UyRz}
U_z			K_{UzUz}	K_{UzRx}	K_{UzRy}	K_{UzRz}
R_x				K_{RxRx}	K_{RxRy}	K_{RxRz}
R_y		simm.			K_{RyRy}	K_{RyRz}
R_z						K_{RzRz}

Tale matrice può essere definita direttamente dall'operatore ovvero calcolata con l'ausilio del programma *Pali*. In ogni caso il codice di calcolo si limita ad assemblare la matrice, assumendo che la stessa sia già definita nel sistema di riferimento gloabale, ed a ottenere le sei componenti di sollecitazioni ad essa associate.

La matrice è riferita ad una terna di riferimento destrorsa.

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	PALO 60	d:\Andrea\Desktop\Ampliamento cimitero Massa fermana 28-05-2018\Palo1.wpa	

Caratteristiche inerziali delle sezioni:

Sezione	Tipo	Ktx [kg/m]	Kty [kg/m]	Ktz [kg/m]	Krx [kgm]	Kmy [kgm]	Kmz [kgm]
1	d:\Andrea\Desktop\Ampliamento cimitero Massa fermana 28-05-2018\Palo1.wpa						
		3.3e+06	0.0e+00	-1.7e-09	0.0e+00	-6.3e+06	0.0e+00
		0.0e+00	3.3e+06	0.0e+00	6.3e+06	0.0e+00	2.8e-10
		-1.7e-09	0.0e+00	3.0e+07	0.0e+00	5.4e-10	0.0e+00
		0.0e+00	6.3e+06	0.0e+00	1.9e+07	0.0e+00	8.4e-10
		-6.3e+06	0.0e+00	5.4e-10	0.0e+00	1.9e+07	0.0e+00
		0.0e+00	2.8e-10	0.0e+00	8.4e-10	0.0e+00	1.9e+06

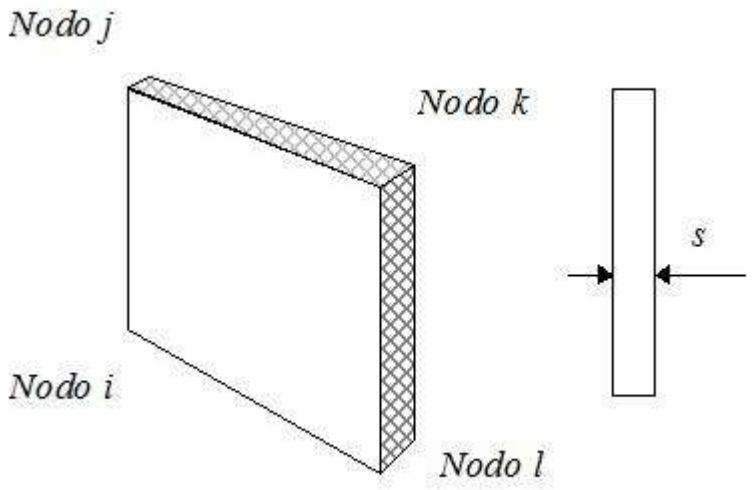
Nodo	Sezione
1	1

Nodo	Sezione
2	1
3	1
4	1
9	1
10	1
11	1
12	1

Elementi setto

Convenzioni adottate

L'elemento setto viene identificato mediante i quattro nodi (**i, j, k, l**) di bordo.



Numerazione dei nodi cui fa capo l'elemento

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm²]	v	alfa [1/°C]	Peso Specifico [kg/m³]	Commento
1	300000.0	0.120	0.000012	2500.0	Calcestruzzo
2	2100000.0	0.330	0.000012	7850.0	Acciaio

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	1	Muro	s= 20 [cm] SETTO PERIMETRALE

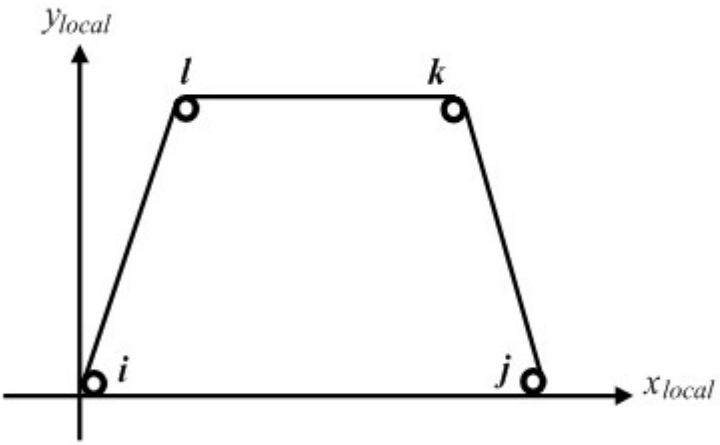
Nodo i	Nodo j	Nodo k	Nodo l	Materiale	Sezione
1	101	102	2	1	1
2	102	103	3	1	1
3	103	104	4	1	1
5	105	101	1	1	1
8	108	104	4	1	1
9	109	105	5	1	1
12	112	108	8	1	1

Elementi a 4 nodi

Convenzioni adottate

L'elemento a 4 nodi è individuato tramite il numero dei quattro nodi di vertice dello stesso.

Gli assi del sistema di riferimento locale risultano così disposti:



- L'asse $\mathbf{x}_{locale}$ ha direzione parallela alla retta congiungente i nodi **i** e **j**, è passante per i medesimi nodi ed ha verso positivo da **i** a **j**.
- L'asse $\mathbf{y}_{locale}$ è ortogonale all'asse $\mathbf{x}_{locale}$, passa per il nodo **i** ed ha verso positivo dalla parte del nodo **l**.
- L'asse $\mathbf{z}_{locale}$ è ottenuto per prodotto vettoriale fra $\mathbf{x}_{locale}$ e $\mathbf{y}_{locale}$.

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm²]	ν	alfa [1/°C]	Peso Specifico [kg/m³]	Commento
1	300000.0	0.120	0.000012	2500.0	Calcestruzzo
2	2100000.0	0.330	0.000012	7850.0	Acciaio

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	1	Mesh isotropa	s= 30 [cm] PLATEA DI BASE
2	1	Mesh isotropa	s= 20 [cm] SOLETTA COPERTURA

Nodo i	Nodo j	Nodo k	Nodo l	Materiale	Sezione
4	8	7	3	1	1
6	7	3	2	1	1
2	1	5	6	1	1
8	12	11	7	1	1
10	11	7	6	1	1
6	10	9	5	1	1
104	108	107	103	1	2
107	106	102	103	1	2
102	106	105	101	1	2
106	110	109	105	1	2
110	118	117	109	1	2
107	111	110	106	1	2
111	119	118	110	1	2
108	112	111	107	1	2
112	120	119	111	1	2
101	113	114	105	1	2
105	109	115	114	1	2
109	117	116	115	1	2

Condizioni e combinazioni di carico

Convenzioni adottate

Nel seguito vengono riportate il numero di condizioni di carico statiche e dinamiche che sollecitano la struttura. Si noti che:

- Per quanto riguarda le condizioni di carico dinamiche, il programma assimila ogni direzione di ingresso del sisma, definita dal progettista, ad una condizione di carico. Pertanto qualora agiscano sulla struttura *n* condizioni di carico statiche e il progettista abbia supposto che la struttura venga sollecitata da un sisma entrante in *m* direzioni, la struttura stessa viene considerata del programma come soggetta ad *n* + *m* condizioni di carico.
- Le combinazioni di carico, definite dal progettista, combinano fra loro le *n* + *m* condizioni di carico ognuna partecipante alla combinazione *i-esima* secondo i fattori di partecipazione nel seguito riportati. N.B.: se la condizione *j-esima* ha fattore di partecipazione unitario, allora partecipa per intero alla combinazione *i-esima*.
- Le prime *n* condizioni sono sempre statiche mentre sono di origine dinamica le (eventuali) condizioni da *n+1* a *n+m*.

Condizioni di carico definite:

Condizione	
1	Peso proprio
2	Pesi permamenti
3	Accidentali loculi _250
4	Neve _120
5	Carico H _50
6	Sisma 0+SLU
7	Sisma 0-SLU
8	Sisma 90+SLU
9	Sisma 90-SLU
10	Sisma 180+SLU
11	Sisma 180-SLU
12	Sisma 270+SLU
13	Sisma 270-SLU
14	Sisma 0+SLD

Condizione	
15	Sisma 0-SLD
16	Sisma 90+SLD
17	Sisma 90-SLD
18	Sisma 180+SLD
19	Sisma 180-SLD
20	Sisma 270+SLD
21	Sisma 270-SLD

Combinazioni agli Stati Limite Ultimi

Combinazione di carico numero	
1	SLU_1
2	SLU_2
3	SLU_3

Comb.\Cond	**1**	**2**	**3**	**4**	**5**
1	1.3	1.3	1.5	0.75	
2	1.3	1.3	1.5	1.5	
3	1.3	1.3	1.5	0.75	1.5

Combinazioni agli Stati Limite di Salvaguardia della Vita

Combinazione di carico numero	
4	Sisma 0+ / 90+
5	Sisma 0+ / 90-
6	Sisma 0+ / 270+
7	Sisma 0+ / 270-
8	Sisma 0- / 90+
9	Sisma 0- / 90-
10	Sisma 0- / 270+
11	Sisma 0- / 270-
12	Sisma 90+ / 0+
13	Sisma 90+ / 0-
14	Sisma 90+ / 180+
15	Sisma 90+ / 180-
16	Sisma 90- / 0+
17	Sisma 90- / 0-
18	Sisma 90- / 180+
19	Sisma 90- / 180-
20	Sisma 180+ / 90+
21	Sisma 180+ / 90-
22	Sisma 180+ / 270+
23	Sisma 180+ / 270-
24	Sisma 180- / 90+

Combinazione di carico numero	
25	Sisma 180- / 90-
26	Sisma 180- / 270+
27	Sisma 180- / 270-
28	Sisma 270+ / 0+
29	Sisma 270+ / 0-
30	Sisma 270+ / 180+
31	Sisma 270+ / 180-
32	Sisma 270- / 0+
33	Sisma 270- / 0-
34	Sisma 270- / 180+
35	Sisma 270- / 180-

Comb.\Cond	**1**	**2**	**3**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**
4	1	1	0.8	1		0.3					
5	1	1	0.8	1			0.3				
6	1	1	0.8	1						0.3	
7	1	1	0.8	1							0.3
8	1	1	0.8		1	0.3					
9	1	1	0.8		1		0.3				
10	1	1	0.8		1					0.3	
11	1	1	0.8		1						0.3
12	1	1	0.8	0.3		1					
13	1	1	0.8		0.3	1					
14	1	1	0.8			1		0.3			
15	1	1	0.8			1			0.3		
16	1	1	0.8	0.3			1				
17	1	1	0.8		0.3		1				
18	1	1	0.8				1	0.3			
19	1	1	0.8				1		0.3		
20	1	1	0.8			0.3		1			
21	1	1	0.8				0.3	1			
22	1	1	0.8					1		0.3	
23	1	1	0.8					1			0.3
24	1	1	0.8			0.3			1		
25	1	1	0.8				0.3		1		
26	1	1	0.8						1	0.3	
27	1	1	0.8						1		0.3
28	1	1	0.8	0.3						1	
29	1	1	0.8		0.3					1	
30	1	1	0.8					0.3		1	
31	1	1	0.8						0.3	1	
32	1	1	0.8	0.3							1
33	1	1	0.8		0.3						1
34	1	1	0.8					0.3			1
35	1	1	0.8						0.3		1

Combinazioni RARE Stati Limite di Esercizio

Combinazione di carico numero	
36	SLE_RARE_1

Combinazione di carico numero	
37	SLE_RARE_2
38	SLE_RARE_3

Comb.\Cond	**1**	**2**	**3**	**4**	**5**
36	1	1	1	0.5	
37	1	1	1	1	
38	1	1	1	0.5	1

Combinazioni FREQUENTI Stati Limite di Esercizio

Combinazione di carico numero	
39	SLE_FREQ_1
40	SLE_FREQ_2
41	

Comb.\Cond	**1**	**2**	**3**	**4**
39	1	1	0.9	
40	1	1	0.8	0.2
41	1	1	0.8	

Combinazioni QUASI PERMANENTI Stati Limite di Esercizio

Combinazione di carico numero	
42	SLE_QP_1

Comb.\Cond	**1**	**2**	**3**
42	1	1	0.8

Combinazioni agli Stati Limite di Danno

Combinazione di carico numero	
43	Sisma 0+ / 90+
44	Sisma 0+ / 90-
45	Sisma 0+ / 270+
46	Sisma 0+ / 270-
47	Sisma 0- / 90+
48	Sisma 0- / 90-
49	Sisma 0- / 270+

Combinazione di carico numero

50	Sisma 0- / 270-
51	Sisma 90+ / 0+
52	Sisma 90+ / 0-
53	Sisma 90+ / 180+
54	Sisma 90+ / 180-
55	Sisma 90- / 0+
56	Sisma 90- / 0-
57	Sisma 90- / 180+
58	Sisma 90- / 180-
59	Sisma 180+ / 90+
60	Sisma 180+ / 90-
61	Sisma 180+ / 270+
62	Sisma 180+ / 270-
63	Sisma 180- / 90+
64	Sisma 180- / 90-
65	Sisma 180- / 270+
66	Sisma 180- / 270-
67	Sisma 270+ / 0+
68	Sisma 270+ / 0-
69	Sisma 270+ / 180+
70	Sisma 270+ / 180-
71	Sisma 270- / 0+
72	Sisma 270- / 0-
73	Sisma 270- / 180+
74	Sisma 270- / 180-

Comb.\Cond	**1**	**2**	**3**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**
43	1	1	0.8	1		0.3					
44	1	1	0.8	1			0.3				
45	1	1	0.8	1						0.3	
46	1	1	0.8	1							0.3
47	1	1	0.8		1	0.3					
48	1	1	0.8		1		0.3				
49	1	1	0.8		1					0.3	
50	1	1	0.8		1						0.3
51	1	1	0.8	0.3		1					
52	1	1	0.8		0.3	1					
53	1	1	0.8			1		0.3			
54	1	1	0.8			1			0.3		
55	1	1	0.8	0.3			1				
56	1	1	0.8		0.3		1				
57	1	1	0.8				1	0.3			
58	1	1	0.8				1		0.3		
59	1	1	0.8			0.3		1			
60	1	1	0.8				0.3	1			
61	1	1	0.8					1		0.3	
62	1	1	0.8					1			0.3
63	1	1	0.8			0.3			1		
64	1	1	0.8				0.3		1		
65	1	1	0.8						1	0.3	
66	1	1	0.8						1		0.3
67	1	1	0.8	0.3						1	
68	1	1	0.8		0.3					1	
69	1	1	0.8					0.3		1	

70	1	1	0.8				0.3	1	
71	1	1	0.8	0.3					1
72	1	1	0.8		0.3				1
73	1	1	0.8			0.3			1
74	1	1	0.8				0.3		1

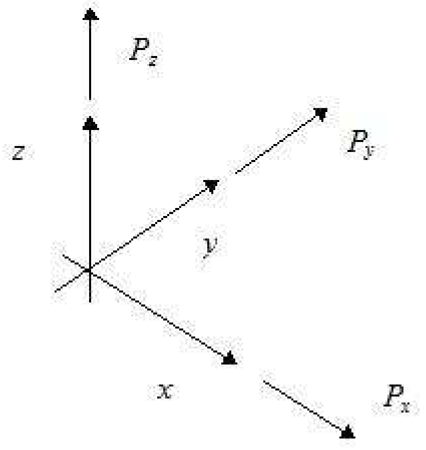
Tabella delle combinazioni di carico presentate come inviluppi

Commento	Sigla Combinazione	Combinazioni utilizzate
SLU Statiche	SLU Statiche +-	1 2 3
SLV	SLV +-	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35
SLE Rare	SLE Rare +-	36 37 38
SLE Frequenti	SLE Frequenti +-	39 40 41
SLE Quasi Permanenti	SLE Quasi Permanenti +-	42
SLD	SLD +-	43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74

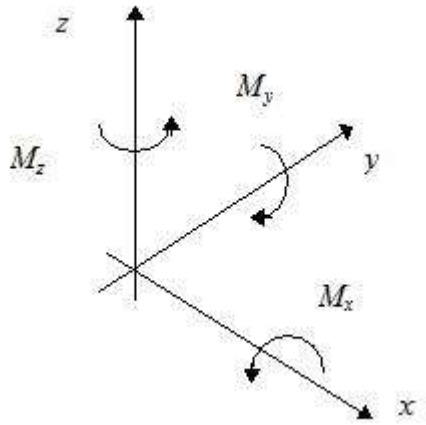
Carichi e coppie applicati ai nodi

Convenzioni adottate

La terna di riferimento generale è destrorsa per cui si hanno i seguenti segni positivi per i carichi o per le coppie direttamente applicati ai nodi:



Versi positivi delle forze concentrate applicate ai nodi.



Versi positivi delle coppie concentrate applicate ai nodi.

Nel seguito vengono riportati per ogni nodo, su cui agiscono carichi concentrati, le componenti del carico (**P_x**, **P_y**, **P_z**, **M_x**, **M_y**, **M_z**) e la condizione di carico cui esse fanno riferimento.

Nodo	Cond.	Px [kN]	Py [kN]	Pz [kN]	Mx [kgm]	My [kgm]	Mz [kgm]

Carichi e coppie applicati ai solai

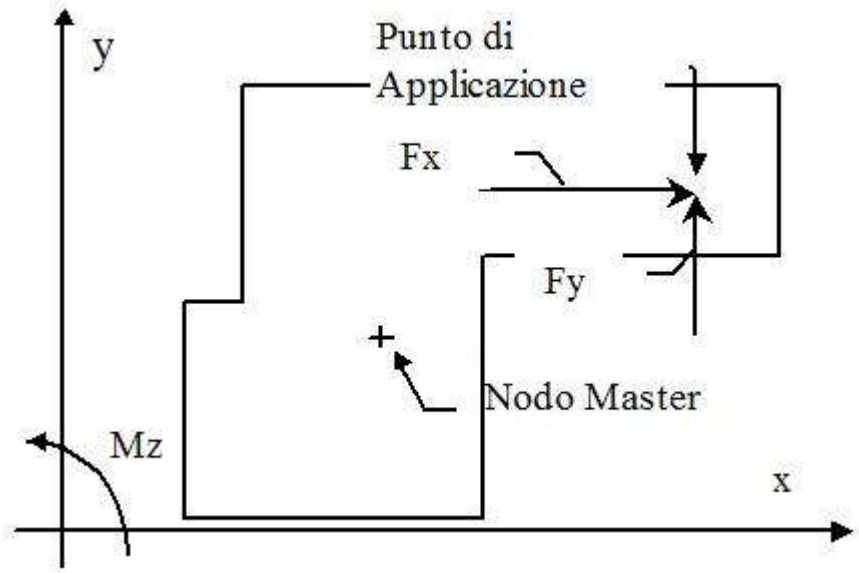
Convenzioni adottate

Seguendo l'ipotesi di piano infinitamente rigido le azioni agenti nel piano del solaio vengono trasformate dal codice di calcolo in azioni agenti nel cosiddetto nodo *master di solaio* secondo le trasformazioni seguenti:

$F_{xMaster} = F_{xNodo}$

$F_{yMaster} = F_{yNodo}$

$M_{zMaster} = M_{zNodo} - F_{xNodo} (y_{App} - y_{Master}) + F_{yNodo} (x_{App} - x_{Master})$



Nel seguito vengono riportati per ogni solaio, su cui agiscono carichi concentrati, le componenti del carico (**F_x**, **F_y**, **M_z**), le coordinate del punto di applicazione nel piano orizzontale (**x, y**) e la condizione di carico cui esse fanno riferimento.

Solaio	Condizione	Fx [kN]	Fy [kN]	Mz [kgm]	x Punto di applicazione [m]	y Punto di Applicazione [m]

Carichi applicati agli elementi

Convenzioni adottate

I carichi applicati vengono raccolti nella tabella riportata alla fine del paragrafo e si intendono applicati nel sistema di riferimento locale dell'elemento.

Per la lettura della tabella si definiscono:

NodoI, NodoJ
: I nodi iniziale/finale dell'asta o lato dell'elemento cui afferisce il carico

L
: La distanza fra i suddetti nodi.

qxi, ..., qzj
: Le componenti di un carico distribuito costante o variabile lineramente iniziali (indice i) e finale (indice j).

xi, xj
: Le distanze, misurate a partire dal NodoI, dei punti di applicazione dei carichi qxi..qzj relativi a carichi distribuiti applicati su porzioni di un'asta.

Px, ..., Pz xApp
: Le componenti di un Carico Concentrato applicato a distanza xApp dal NodoI.

Mx, ..., Mz xApp
: Le componenti di una Coppia Concentrata applicata a distanza xApp dal NodoI.

Var Termica Assiale, ..., Var Termica Farfalla 13
: Le variazioni termiche (Assiali ed a Farfalla) misurate in gradi Celsius.

mxi, ..., mzj
: Le componenti di coppie distribuite costanti o variabili lineramente iniziali (indice i) e finale (indice j).

qS_x, qS_y, qS_z
: carichi, per unità di superficie, applicati su elementi superficiali o facce di elementi solidi

Peso Proprio
: Il valore del carico derivante dal peso proprio dell'elemento

Carichi distribuiti

Nodo I	Nodo J	L [m]	Condizione di carico	xi [m]	qxi [kg/m]	qyi [kg/m]	qzi [kg/m]	xj [m]	qxj [kg/m]	qyj [kg/m]	qzj [kg/m]
2	1	2.80	2	0.00	0.0	1000.0	0.0	2.80	0.0	1000.0	0.0
			1	0.00	0.0	875.0	0.0	2.80	0.0	875.0	0.0
3	2	2.80	2	0.00	0.0	1000.0	0.0	2.80	0.0	1000.0	0.0
			1	0.00	0.0	875.0	0.0	2.80	0.0	875.0	0.0
4	3	2.80	2	0.00	0.0	1000.0	0.0	2.80	0.0	1000.0	0.0
			1	0.00	0.0	875.0	0.0	2.80	0.0	875.0	0.0
9	10	2.80	1	0.00	0.0	875.0	0.0	2.80	0.0	875.0	0.0
10	11	2.80	1	0.00	0.0	875.0	0.0	2.80	0.0	875.0	0.0
11	12	2.80	1	0.00	0.0	875.0	0.0	2.80	0.0	875.0	0.0
1	5	1.48	2	0.00	0.0	1000.0	0.0	1.48	0.0	1000.0	0.0
			1	0.00	0.0	875.0	0.0	1.48	0.0	875.0	0.0
5	9	1.48	2	0.00	0.0	1000.0	0.0	1.48	0.0	1000.0	0.0
			1	0.00	0.0	875.0	0.0	1.48	0.0	875.0	0.0
2	6	1.48	1	0.00	0.0	875.0	0.0	1.48	0.0	875.0	0.0
6	10	1.48	1	0.00	0.0	875.0	0.0	1.48	0.0	875.0	0.0
3	7	1.48	1	0.00	0.0	875.0	0.0	1.48	0.0	875.0	0.0
7	11	1.48	1	0.00	0.0	875.0	0.0	1.48	0.0	875.0	0.0
4	8	1.48	2	0.00	0.0	1000.0	0.0	1.48	0.0	1000.0	0.0
			1	0.00	0.0	875.0	0.0	1.48	0.0	875.0	0.0
8	12	1.48	2	0.00	0.0	1000.0	0.0	1.48	0.0	1000.0	0.0
			1	0.00	0.0	875.0	0.0	1.48	0.0	875.0	0.0
116	117	1.85	2	0.00	0.0	100.0	0.0	1.85	0.0	100.0	0.0
			4	0.00	0.0	100.0	0.0	1.85	0.0	100.0	0.0
118	117	2.80	2	0.00	0.0	100.0	0.0	2.80	0.0	100.0	0.0
			4	0.00	0.0	100.0	0.0	2.80	0.0	100.0	0.0

119	118	2.80	2	0.00	0.0	100.0	0.0	2.80	0.0	100.0	0.0
			4	0.00	0.0	100.0	0.0	2.80	0.0	100.0	0.0
120	119	2.80	2	0.00	0.0	100.0	0.0	2.80	0.0	100.0	0.0
			4	0.00	0.0	100.0	0.0	2.80	0.0	100.0	0.0

Carichi distribuiti

Elemento	Condizione di carico	Nodi	L [m]	xi [m]	qxi [kg/m]	qyi [kg/m]	qzi [kg/m]	xj [m]	qxj [kg/m]	qyj [kg/m]	qzj [kg/m]	qSx [kg/m²]	qSy [kg/m²]	qSz [kg/m²]
	1											0.0	500.0	0.0
4 7	3											0.0	0.0	1250.0
	2											0.0	0.0	3000.0
	1											0.0	0.0	750.0
	1											0.0	500.0	0.0
6 3	3											0.0	0.0	-1250.0
	2											0.0	0.0	-3000.0
	1											0.0	0.0	-750.0
	1											0.0	500.0	0.0
2 5	3											0.0	0.0	-1250.0
	2											0.0	0.0	-3000.0
	1											0.0	0.0	-750.0
	1											0.0	500.0	0.0
8 11	3											0.0	0.0	1250.0
	2											0.0	0.0	3000.0
	1											0.0	0.0	750.0
	1											0.0	500.0	0.0
10 7	3											0.0	0.0	-1250.0
	2											0.0	0.0	-3000.0
	1											0.0	0.0	-750.0
	1											0.0	500.0	0.0
6 9	3											0.0	0.0	1250.0
	2											0.0	0.0	3000.0
	1											0.0	0.0	750.0
	1											0.0	500.0	0.0
104 107	2											0.0	0.0	100.0
	4											0.0	0.0	120.0
	5											0.0	0.0	50.0
	1											0.0	0.0	500.0
107 102	2											0.0	0.0	100.0
	4											0.0	0.0	120.0
	5											0.0	0.0	50.0
	1											0.0	0.0	500.0
102 105	2											0.0	0.0	100.0
	4											0.0	0.0	120.0
	5											0.0	0.0	50.0
	1											0.0	0.0	500.0
106 109	2											0.0	0.0	100.0
	4											0.0	0.0	120.0
	5											0.0	0.0	50.0
	1											0.0	0.0	500.0
110 117	2											0.0	0.0	100.0
	4											0.0	0.0	120.0
	5											0.0	0.0	50.0
	1											0.0	0.0	500.0
107 110	2											0.0	0.0	100.0
	4											0.0	0.0	120.0
	5											0.0	0.0	50.0
	1											0.0	0.0	500.0

111 118	2	0.0	0.0	100.0
	4	0.0	0.0	120.0
	5	0.0	0.0	50.0
	1	0.0	0.0	500.0
108 111	2	0.0	0.0	100.0
	4	0.0	0.0	120.0
	5	0.0	0.0	50.0
	1	0.0	0.0	500.0
112 119	2	0.0	0.0	100.0
	4	0.0	0.0	120.0
	5	0.0	0.0	50.0
	1	0.0	0.0	500.0
101 114	4	0.0	0.0	-120.0
	2	0.0	0.0	-100.0
	5	0.0	0.0	-50.0
	1	0.0	0.0	-500.0
105 115	4	0.0	0.0	120.0
	2	0.0	0.0	100.0
	5	0.0	0.0	50.0
	1	0.0	0.0	500.0
109 116	4	0.0	0.0	120.0
	2	0.0	0.0	100.0
	5	0.0	0.0	50.0
	1	0.0	0.0	500.0

Analisi dinamica

Convenzioni adottate

Nella presente versione del programma ***WinStrand*** l'analisi in campo dinamico della struttura può essere condotta per via *statica equivalente* ovvero per via *modale* facendo uso, per il calcolo della risposta, dello spettro di pseudo accellerazioni fornito dal regolamento italiano.

Dati generali relativi all'analisi dinamica

Spettro in accordo con TU 2018

- Via Monte Stalio, 2, 63834 Massa Fermana FM, Italia Longitudine 13.4720 Latitudine 43.1565
- Tipo di Terreno B
- Coefficiente di amplificazione topografica (S_T) 1.0000
- Vita nominale della costruzione (V_N) 50.0 anni
- Classe d'uso II coefficiente C_U 1.0
- Classe di duttilità impostata Non Dissipativa
- Fattore di duttilità α_u/α_1 per sisma orizzontale 1.00
- Fattore riduttivo regolarità in altezza K_R 1.00
- Fattore riduttivo per la presenza di setti K_W 1.00

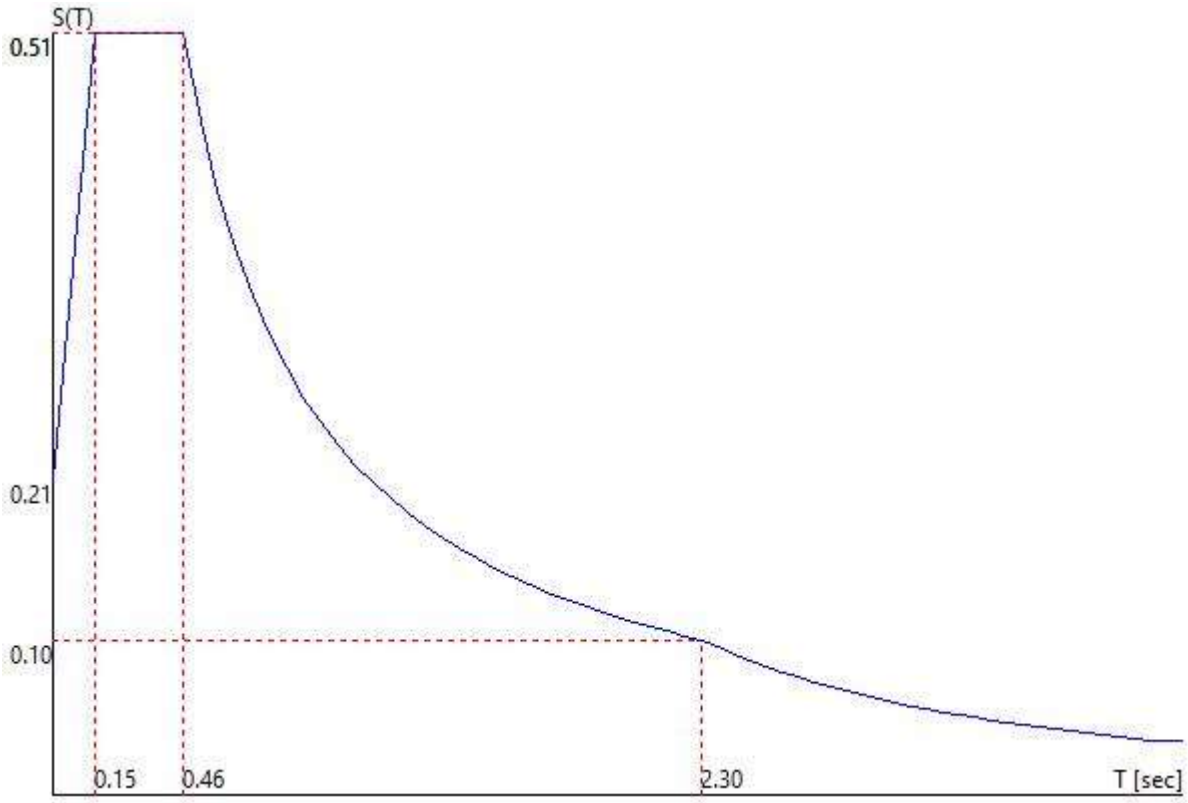
Stato Limite	q_o	q_H	q_V
SLV	1.00	1.00	1.50
SLD	1.00	1.00	1.50
SLC	1.00	1.00	1.50
SLO	1.00	1.00	1.50

- Smorzamento Viscoso (0.05 = 5%) 0.05

TU 2018 SLV H

- Probabilità di superamento (P_{VR}) 10.0 e periodo di ritorno (T_R) 475 (anni)
- S_s 1.200
- T_B 0.15 [sec]
- T_C 0.46 [sec]
- T_D 2.30 [sec]
- a_g/g 0.1745
- F_o 2.4341
- T_C^* 0.3400

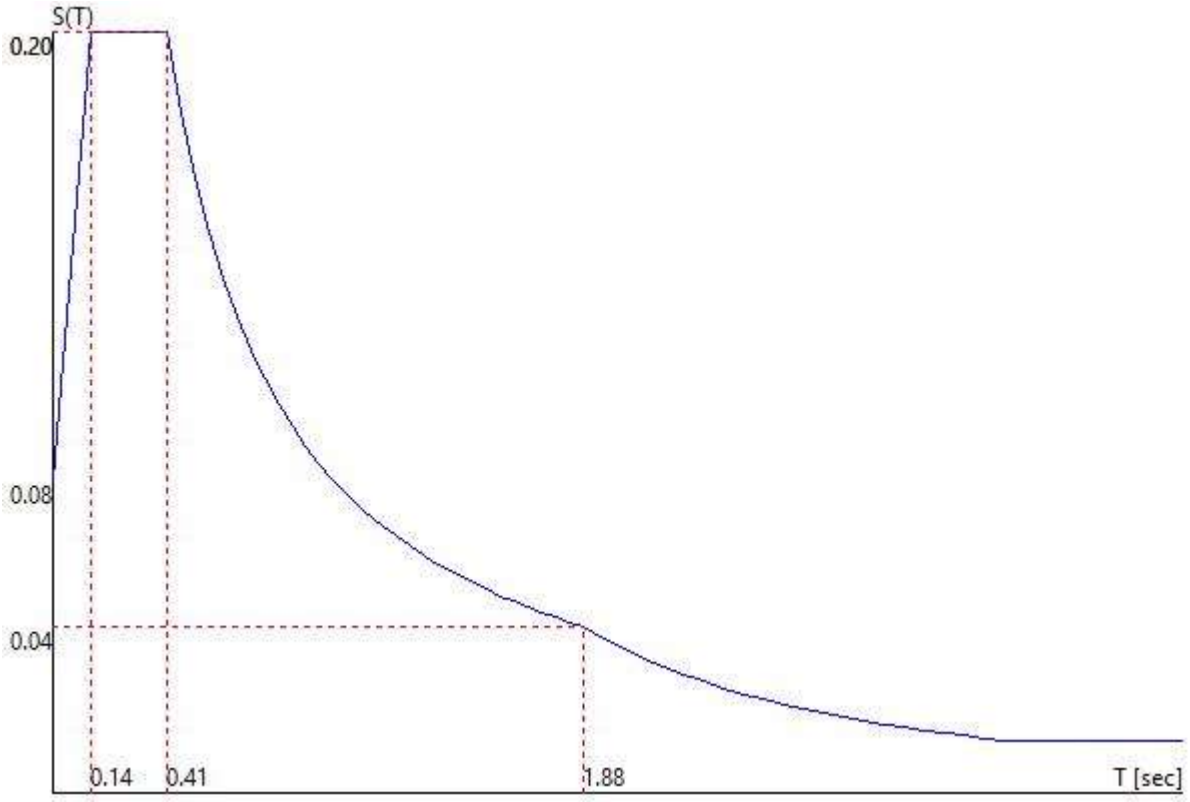
TU 2018 SLV H



TU 2018 SLD H

- Probabilità di superamento (P_{VR}) 63.0 e periodo di ritorno (T_R) 50 (anni)
- S_s 1.200
- T_B 0.14 [sec]
- T_C 0.41 [sec]
- T_D 1.88 [sec]
- a_g/g 0.0699
- F_o 2.4420
- T_C^* 0.2902

TU 2018 SLD H



Fattori di partecipazione per il calcolo delle masse

Cond. Carico 1 Peso proprio 1.0000

Cond. Carico 2 Pesi permamenti 1.0000

Cond. Carico 3 Accidentali loculi _250 0.8000

Cond. Carico 4 Neve _120 0.0000

Cond. Carico 5 Carico H _50 0.0000

Angoli d'ingresso del Sisma

- SLV Direzione 1 Angolo in pianta 0.00 [°]
- SLV Direzione 2 Angolo in pianta 0.00 [°]
- SLV Direzione 3 Angolo in pianta 90.00 [°]
- SLV Direzione 4 Angolo in pianta 90.00 [°]
- SLV Direzione 5 Angolo in pianta 180.00 [°]
- SLV Direzione 6 Angolo in pianta 180.00 [°]
- SLV Direzione 7 Angolo in pianta 270.00 [°]
- SLV Direzione 8 Angolo in pianta 270.00 [°]
- SLD Direzione 9 Angolo in pianta 0.00 [°]
- SLD Direzione 10 Angolo in pianta 0.00 [°]
- SLD Direzione 11 Angolo in pianta 90.00 [°]

- SLD Direzione 12 Angolo in pianta 90.00 [°]
- SLD Direzione 13 Angolo in pianta 180.00 [°]
- SLD Direzione 14 Angolo in pianta 180.00 [°]
- SLD Direzione 15 Angolo in pianta 270.00 [°]
- SLD Direzione 16 Angolo in pianta 270.00 [°]

Solaio	x [m]	y [m]	z [m]	Massa [UTM]	Jpolare [UTM m²]
1	3.67	1.29	4.70	3980.1	44320.5

Rigidezze traslanti dei solai.

Solaio	Kxx [kg/m]	Kyy [kg/m]	Kxy [kg/m]	Kxt [kgm]	Kyt [kgm]
1	1.4e+07	7.4e+06	-1.8e+02	1.8e+07	3.9e+06

Analisi Modale via Vettori di Ritz

Direzione d'ingresso 1 angolo 0.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.75027e+03	41.836	0.15	0.5010
2	2.36537e+03	48.635	0.13	0.4602
3	4.59739e+03	67.804	0.09	0.3893

Direzione d'ingresso 2 angolo 0.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.71500e+03	41.413	0.15	0.5040
2	2.17829e+03	46.672	0.13	0.4708
3	5.09490e+03	71.379	0.09	0.3803

Direzione d'ingresso 3 angolo 90.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.85497e+03	43.069	0.15	0.4926
2	2.13583e+03	46.215	0.14	0.4734
3	4.80410e+03	69.312	0.09	0.3854

Direzione d'ingresso 4 angolo 90.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.55616e+03	39.448	0.16	0.5097
2	2.47317e+03	49.731	0.13	0.4547

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
3	4.94544e+03	70.324	0.09	0.3829

Direzione d'ingresso 5 angolo 180.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.71500e+03	41.413	0.15	0.5040
2	2.17829e+03	46.672	0.13	0.4708
3	5.09490e+03	71.379	0.09	0.3803

Direzione d'ingresso 6 angolo 180.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.75027e+03	41.836	0.15	0.5010
2	2.36537e+03	48.635	0.13	0.4602
3	4.59739e+03	67.804	0.09	0.3893

Direzione d'ingresso 7 angolo 270.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.55616e+03	39.448	0.16	0.5097
2	2.47317e+03	49.731	0.13	0.4547
3	4.94544e+03	70.324	0.09	0.3829

Direzione d'ingresso 8 angolo 270.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.85497e+03	43.069	0.15	0.4926
2	2.13583e+03	46.215	0.14	0.4734
3	4.80410e+03	69.312	0.09	0.3854

Direzione d'ingresso 9 angolo 0.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.75027e+03	41.836	0.15	0.5010
2	2.36537e+03	48.635	0.13	0.4602
3	4.59739e+03	67.804	0.09	0.3893

Direzione d'ingresso 10 angolo 0.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.71500e+03	41.413	0.15	0.5040
2	2.17829e+03	46.672	0.13	0.4708
3	5.09490e+03	71.379	0.09	0.3803

Direzione d'ingresso 11 angolo 90.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.85497e+03	43.069	0.15	0.4926
2	2.13583e+03	46.215	0.14	0.4734
3	4.80410e+03	69.312	0.09	0.3854

Direzione d'ingresso 12 angolo 90.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.55616e+03	39.448	0.16	0.5097
2	2.47317e+03	49.731	0.13	0.4547
3	4.94544e+03	70.324	0.09	0.3829

Direzione d'ingresso 13 angolo 180.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.71500e+03	41.413	0.15	0.5040
2	2.17829e+03	46.672	0.13	0.4708
3	5.09490e+03	71.379	0.09	0.3803

Direzione d'ingresso 14 angolo 180.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.75027e+03	41.836	0.15	0.5010
2	2.36537e+03	48.635	0.13	0.4602
3	4.59739e+03	67.804	0.09	0.3893

Direzione d'ingresso 15 angolo 270.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.55616e+03	39.448	0.16	0.5097
2	2.47317e+03	49.731	0.13	0.4547
3	4.94544e+03	70.324	0.09	0.3829

Direzione d'ingresso 16 angolo 270.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	1.85497e+03	43.069	0.15	0.4926
2	2.13583e+03	46.215	0.14	0.4734
3	4.80410e+03	69.312	0.09	0.3854

Direzione di Ingresso del Sisma 1 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
3	-4.67744e+01	100.0	2.18785e+03	55.0	55.0
2	4.02461e+01	86.0	1.61975e+03	40.7	95.7
1	1.31348e+01	28.1	1.72524e+02	4.3	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.25	3.45	3.45	0.17	0.00	-0.17	686.6	0.0	118.4

Direzione di Ingresso del Sisma 1 Angolo 0.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	3	83.56	8.03	26535.6			
	2	73.13	-43.94	-24288.0			
	1	8.48	37.50	-4333.7			
Per Via Statica Equivalente					152.01	0.00	38426.3
Per Via Modale					117.59	48.62	-35542.3
Variazione					-34.42	48.62	-73968.6

Direzione di Ingresso del Sisma 2 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
6	-4.43102e+01	100.0	1.96339e+03	49.3	49.3

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
5	-3.96861e+01	89.6	1.57499e+03	39.6	88.9
4	2.10177e+01	47.4	4.41743e+02	11.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.25	3.45	3.45	0.17	-0.00	0.17	-686.6	-0.0	118.4

Direzione di Ingresso del Sisma 2 Angolo 0.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	6	73.25	6.68	23409.1			
	5	72.74	-60.36	-23481.5			
	4	21.84	55.76	-9278.2			
Per Via Statica Equivalente					148.49	0.00	16302.9
Per Via Modale					114.35	63.36	-35991.3
Variazione					-34.14	63.36	-52294.2

Direzione di Ingresso del Sisma 3 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
7	6.30746e+01	100.0	3.97840e+03	100.0	100.0
8	1.30679e+00	2.1	1.70771e+00	0.0	100.0
9	1.14501e-01	0.2	1.31104e-02	0.0	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.25	3.45	10.25	0.51	0.51	0.00	-0.0	2039.8	1045.4

Direzione di Ingresso del Sisma 3 Angolo 90.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	7	2.46	192.27	8801.3			
	8	-2.61	0.08	939.0			
	9	0.20	0.00	62.1			
Per Via Statica Equivalente					-0.00	192.35	-35498.9
Per Via Modale					2.08	192.32	9456.9
Variazione					2.08	-0.03	44955.8

Direzione di Ingresso del Sisma 4 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
10	5.36047e+01	100.0	2.87346e+03	72.2	72.2
11	-3.21852e+01	60.0	1.03588e+03	26.0	98.2
12	8.41278e+00	15.7	7.07749e+01	1.8	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.25	3.45	10.25	0.51	-0.51	-0.00	0.0	-2039.8	1045.4

Direzione di Ingresso del Sisma 4 Angolo 90.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	10	49.23	143.68	-32171.5			
	11	-60.21	46.21	14126.4			
	12	13.71	2.66	4609.1			
Per Via Statica Equivalente					-0.00	199.02	-2124.5
Per Via Modale					72.31	157.77	-33410.0
Variazione					72.31	-41.25	-31285.5

Direzione di Ingresso del Sisma 5 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
15	-4.43102e+01	100.0	1.96339e+03	49.3	49.3
14	-3.96861e+01	89.6	1.57499e+03	39.6	88.9
13	2.10176e+01	47.4	4.41742e+02	11.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.25	3.45	3.45	0.17	-0.00	0.17	-686.6	-0.0	118.4

Direzione di Ingresso del Sisma 5 Angolo 180.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	15	-73.25	-6.68	-23409.1			
	14	-72.74	60.36	23481.5			
	13	-21.84	-55.76	9278.2			
Per Via Statica Equivalente					-148.49	-0.00	-37537.0
Per Via Modale					-114.35	-63.36	35991.3
Variazione					34.14	-63.36	73528.3

Direzione di Ingresso del Sisma 6 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
18	-4.67744e+01	100.0	2.18785e+03	55.0	55.0
17	4.02461e+01	86.0	1.61975e+03	40.7	95.7
16	1.31348e+01	28.1	1.72523e+02	4.3	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.25	3.45	3.45	0.17	0.00	-0.17	686.6	0.0	118.4

Direzione di Ingresso del Sisma 6 Angolo 180.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	18	-83.56	-8.03	-26535.6			
	17	-73.13	43.94	24288.0			
	16	-8.48	-37.50	4333.7			
Per Via Statica Equivalente					-152.01	-0.00	-16689.2
Per Via Modale					-117.59	-48.62	35542.3
Variazione					34.42	-48.62	52231.5

Direzione di Ingresso del Sisma 7 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
19	5.36047e+01	100.0	2.87346e+03	72.2	72.2
20	-3.21851e+01	60.0	1.03588e+03	26.0	98.2
21	8.41280e+00	15.7	7.07752e+01	1.8	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.25	3.45	10.25	0.51	-0.51	-0.00	0.0	-2039.8	1045.4

Direzione di Ingresso del Sisma 7 Angolo 270.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	19	-49.23	-143.68	32171.5			
	20	60.21	-46.21	-14126.4			
	21	-13.71	-2.66	-4609.2			
Per Via Statica Equivalente					0.00	-199.02	36729.5
Per Via Modale					-72.31	-157.77	33410.0
Variazione					-72.31	41.25	-3319.5

Direzione di Ingresso del Sisma 8 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
22	6.30746e+01	100.0	3.97840e+03	100.0	100.0
23	1.30677e+00	2.1	1.70766e+00	0.0	100.0
24	1.14521e-01	0.2	1.31152e-02	0.0	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.25	3.45	10.25	0.51	0.51	0.00	-0.0	2039.8	1045.4

Direzione di Ingresso del Sisma 8 Angolo 270.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	22	-2.46	-192.27	-8801.3			
	23	2.61	-0.08	-939.0			
	24	-0.20	-0.00	-62.1			
Per Via Statica Equivalente					0.00	-192.35	2053.3
Per Via Modale					-2.08	-192.32	-9456.9
Variazione					-2.08	0.03	-11510.2

Direzione di Ingresso del Sisma 9 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
27	-4.67744e+01	100.0	2.18785e+03	55.0	55.0
26	4.02461e+01	86.0	1.61975e+03	40.7	95.7
25	1.31348e+01	28.1	1.72524e+02	4.3	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.25	3.45	3.45	0.17	0.00	-0.17	686.6	0.0	118.4

Direzione di Ingresso del Sisma 9 Angolo 0.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	27	35.65	3.43	11321.0			
	26	31.54	-18.95	-10476.1			
	25	3.47	15.33	-1771.4			
Per Via Statica Equivalente					64.85	0.00	16394.0
Per Via Modale					50.37	-20.55	-15215.9
Variazione					-14.49	-20.55	-31609.9

Direzione di Ingresso del Sisma 10 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
30	-4.43102e+01	100.0	1.96339e+03	49.3	49.3
29	-3.96861e+01	89.6	1.57499e+03	39.6	88.9
28	2.10177e+01	47.4	4.41743e+02	11.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.25	3.45	3.45	0.17	-0.00	0.17	-686.6	-0.0	118.4

Direzione di Ingresso del Sisma 10 Angolo 0.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	30	31.20	2.85	9970.3			
	29	31.42	-26.07	-10141.8			
	28	8.87	22.66	-3770.1			
Per Via Statica Equivalente					63.24	0.00	6943.7
Per Via Modale					48.83	-26.69	-15340.5
Variazione					-14.42	-26.69	-22284.1

Direzione di Ingresso del Sisma 11 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
31	6.30746e+01	100.0	3.97840e+03	100.0	100.0
32	1.30679e+00	2.1	1.70771e+00	0.0	100.0
33	1.14501e-01	0.2	1.31104e-02	0.0	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.25	3.45	10.25	0.51	0.51	0.00	-0.0	2039.8	1045.4

Direzione di Ingresso del Sisma 11 Angolo 90.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	31	1.02	79.92	3658.6			
	32	-1.13	0.03	405.7			
	33	0.09	0.00	26.5			
Per Via Statica Equivalente					-0.00	79.96	-14756.5
Per Via Modale					-0.88	79.95	3942.2
Variazione					-0.88	-0.01	18698.8

Direzione di Ingresso del Sisma 12 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
34	5.36047e+01	100.0	2.87346e+03	72.2	72.2
35	-3.21852e+01	60.0	1.03588e+03	26.0	98.2
36	8.41278e+00	15.7	7.07749e+01	1.8	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta	Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp

	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m²]
1	10.25	3.45	10.25	0.51	-0.51	-0.00	0.0	-2039.8	1045.4

Direzione di Ingresso del Sisma 12 Angolo 90.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	34	19.78	57.73	-12925.3			
	35	-25.95	19.92	6088.7			
	36	5.84	1.13	1964.1			
Per Via Statica Equivalente					-0.00	79.96	-853.5
Per Via Modale					-30.38	63.99	-13562.5
Variazione					-30.38	-15.97	-12709.0

Direzione di Ingresso del Sisma 13 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
39	-4.43102e+01	100.0	1.96339e+03	49.3	49.3
38	-3.96861e+01	89.6	1.57499e+03	39.6	88.9
37	2.10176e+01	47.4	4.41742e+02	11.1	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.25	3.45	3.45	0.17	-0.00	0.17	-686.6	-0.0	118.4

Direzione di Ingresso del Sisma 13 Angolo 180.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	39	-31.20	-2.85	-9970.3			
	38	-31.42	26.07	10141.8			
	37	-8.87	-22.66	3770.1			
Per Via Statica Equivalente					-63.24	-0.00	-15987.6
Per Via Modale					-48.83	26.69	15340.5
Variazione					14.42	26.69	31328.0

Direzione di Ingresso del Sisma 14 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
42	-4.67744e+01	100.0	2.18785e+03	55.0	55.0
41	4.02461e+01	86.0	1.61975e+03	40.7	95.7
40	1.31348e+01	28.1	1.72523e+02	4.3	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.25	3.45	3.45	0.17	0.00	-0.17	686.6	0.0	118.4

Direzione di Ingresso del Sisma 14 Angolo 180.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	42	-35.65	-3.43	-11321.0			
	41	-31.54	18.95	10476.1			
	40	-3.47	-15.33	1771.4			
Per Via Statica Equivalente					-64.85	-0.00	-7120.2
Per Via Modale					-50.37	20.55	15215.9
Variazione					14.49	20.55	22336.1

Direzione di Ingresso del Sisma 15 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
43	5.36047e+01	100.0	2.87346e+03	72.2	72.2
44	-3.21851e+01	60.0	1.03588e+03	26.0	98.2
45	8.41280e+00	15.7	7.07752e+01	1.8	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.25	3.45	10.25	0.51	-0.51	-0.00	0.0	-2039.8	1045.4

Direzione di Ingresso del Sisma 15 Angolo 270.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	43	-19.78	-57.73	12925.3			
	44	25.95	-19.92	-6088.7			
	45	-5.84	-1.13	-1964.1			
Per Via Statica Equivalente					0.00	-79.96	14756.5
Per Via Modale					30.38	-63.99	13562.5
Variazione					30.38	15.97	-1194.0

Direzione di Ingresso del Sisma 16 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
46	6.30746e+01	100.0	3.97840e+03	100.0	100.0
47	1.30677e+00	2.1	1.70766e+00	0.0	100.0
48	1.14521e-01	0.2	1.31152e-02	0.0	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	10.25	3.45	10.25	0.51	0.51	0.00	-0.0	2039.8	1045.4

Direzione di Ingresso del Sisma 16 Angolo 270.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	46	-1.02	-79.92	-3658.6			
	47	1.13	-0.03	-405.7			
	48	-0.09	-0.00	-26.5			
Per Via Statica Equivalente					0.00	-79.96	853.5

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
Per Via Modale					0.88	-79.95	-3942.2
Variazione					0.88	0.01	-4795.8

Componenti di spostamento Modale

Nodo	Modo	Ux	Uy	Uz	Rx	Ry	Rz
1	1	-7.7655567533e-06	9.1986248949e-03	2.9274995614e-03	-2.1621558894e-03	1.9857863458e-04	-7.1875319937e-04
	2	2.4832453367e-03	1.6883219336e-03	2.3574353091e-03	-6.6508045340e-04	7.4044159653e-04	-1.2110038382e-03
	3	-1.2958548199e-02	8.6587845709e-03	-1.9611632745e-03	-5.4039485034e-04	-6.0296459437e-04	-2.3305396658e-03
	4	3.8206737368e-04	9.1756628242e-03	3.1824472184e-03	-2.1993138591e-03	2.9446677262e-04	-8.5070523401e-04
	5	-2.3646523319e-03	-1.0757266004e-05	-1.7323707410e-03	2.5787569966e-04	-6.6825507300e-04	1.0228283214e-03
	6	-1.3633292027e-02	9.2420455927e-03	-2.0181253068e-03	-5.9960713626e-04	-6.2969905160e-04	-2.4667614638e-03
	7	-1.7090787846e-05	7.3453181602e-03	1.9990760407e-03	-1.7320584447e-03	-4.4095126245e-05	-6.4752471385e-05
	8	-2.0794118633e-03	-5.7285636265e-03	-3.3730101376e-03	1.5710515655e-03	-7.2813835373e-04	1.3880047905e-03
	9	1.3351856802e-02	-1.0140897108e-02	1.6998440446e-03	8.4488593095e-04	6.3567542315e-04	2.3933019155e-03
	10	-9.7630265679e-05	9.0855586321e-03	3.0098069436e-03	-2.1221340645e-03	2.8183455723e-04	-9.5188348583e-04
	11	3.3292509142e-03	-1.0390139826e-03	1.7951411510e-03	-1.2142935788e-04	7.3206377919e-04	-8.8773070928e-04
	12	1.3089530603e-02	-7.8230693897e-03	2.1770226203e-03	3.2677053443e-04	5.6983726828e-04	2.4316921017e-03
	13	-3.8206742201e-04	-9.1756628027e-03	-3.1824472519e-03	2.1993138592e-03	-2.9446678879e-04	8.5070526076e-04
	14	2.3646523237e-03	1.0756947298e-05	1.7323706294e-03	-2.5787562391e-04	6.6825506134e-04	-1.0228282867e-03
	15	1.3633292116e-02	-9.2420456292e-03	2.0181253259e-03	5.9960713455e-04	6.2969905526e-04	2.4667614804e-03
	16	7.7655950775e-06	-9.1986248764e-03	-2.9274995237e-03	2.1621558810e-03	-1.9857862112e-04	7.1875317573e-04
	17	-2.4832453164e-03	-1.6883222034e-03	-2.3574353918e-03	6.6508051440e-04	-7.4044160362e-04	1.2110038682e-03
	18	1.2958548123e-02	-8.6587845227e-03	1.9611632664e-03	5.4039484789e-04	6.0296459336e-04	2.3305396458e-03
	19	9.7630315721e-05	-9.0855586544e-03	-3.0098069250e-03	2.1221340641e-03	-2.8183455016e-04	9.5188348258e-04
	20	-3.3292509757e-03	1.0390138939e-03	-1.7951412089e-03	1.2142938569e-04	-7.3206378922e-04	8.8773071935e-04
	21	-1.3089530501e-02	7.8230692862e-03	-2.1770226116e-03	-3.2677052176e-04	-5.6983726156e-04	-2.4316920875e-03
	22	1.7090803055e-05	-7.3453180277e-03	-1.9990759774e-03	1.7320584122e-03	4.4095139414e-05	6.4752439293e-05
	23	2.0794118585e-03	5.7285637483e-03	3.3730101618e-03	-1.5710515939e-03	7.2813834830e-04	-1.3880047810e-03
	24	-1.3351856887e-02	1.0140897221e-02	-1.6998440404e-03	-8.4488594774e-04	-6.3567542642e-04	-2.3933019338e-03
	25	-7.7655567533e-06	9.1986248949e-03	2.9274995614e-03	-2.1621558894e-03	1.9857863458e-04	-7.1875319937e-04
	26	2.4832453367e-03	1.6883219336e-03	2.3574353091e-03	-6.6508045340e-04	7.4044159653e-04	-1.2110038382e-03
	27	-1.2958548199e-02	8.6587845709e-03	-1.9611632745e-03	-5.4039485034e-04	-6.0296459437e-04	-2.3305396658e-03
	28	3.8206737368e-04	9.1756628242e-03	3.1824472184e-03	-2.1993138591e-03	2.9446677262e-04	-8.5070523401e-04
	29	-2.3646523319e-03	-1.0757266004e-05	-1.7323707410e-03	2.5787569966e-04	-6.6825507300e-04	1.0228283214e-03
	30	-1.3633292027e-02	9.2420455927e-03	-2.0181253068e-03	-5.9960713626e-04	-6.2969905160e-04	-2.4667614638e-03
	31	-1.7090787846e-05	7.3453181602e-03	1.9990760407e-03	-1.7320584447e-03	-4.4095126245e-05	-6.4752471385e-05
	32	-2.0794118633e-03	-5.7285636265e-03	-3.3730101376e-03	1.5710515655e-03	-7.2813835373e-04	1.3880047905e-03
	33	1.3351856802e-02	-1.0140897108e-02	1.6998440446e-03	8.4488593095e-04	6.3567542315e-04	2.3933019155e-03
	34	-9.7630265679e-05	9.0855586321e-03	3.0098069436e-03	-2.1221340645e-03	2.8183455723e-04	-9.5188348583e-04
	35	3.3292509142e-03	-1.0390139826e-03	1.7951411510e-03	-1.2142935788e-04	7.3206377919e-04	-8.8773070928e-04
	36	1.3089530603e-02	-7.8230693897e-03	2.1770226203e-03	3.2677053443e-04	5.6983726828e-04	2.4316921017e-03
	37	-3.8206742201e-04	-9.1756628027e-03	-3.1824472519e-03	2.1993138592e-03	-2.9446678879e-04	8.5070526076e-04
	38	2.3646523237e-03	1.0756947298e-05	1.7323706294e-03	-2.5787562391e-04	6.6825506134e-04	-1.0228282867e-03
	39	1.3633292116e-02	-9.2420456292e-03	2.0181253259e-03	5.9960713455e-04	6.2969905526e-04	2.4667614804e-03
	40	7.7655950775e-06	-9.1986248764e-03	-2.9274995237e-03	2.1621558810e-03	-1.9857862112e-04	7.1875317573e-04
	41	-2.4832453164e-03	-1.6883222034e-03	-2.3574353918e-03	6.6508051440e-04	-7.4044160362e-04	1.2110038682e-03
	42	1.2958548123e-02	-8.6587845227e-03	1.9611632664e-03	5.4039484789e-04	6.0296459336e-04	2.3305396458e-03
	43	9.7630315721e-05	-9.0855586544e-03	-3.0098069250e-03	2.1221340641e-03	-2.8183455016e-04	9.5188348258e-04
	44	-3.3292509757e-03	1.0390138939e-03	-1.7951412089e-03	1.2142938569e-04	-7.3206378922e-04	8.8773071935e-04
	45	-1.3089530501e-02	7.8230692862e-03	-2.1770226116e-03	-3.2677052176e-04	-5.6983726156e-04	-2.4316920875e-03
	46	1.7090803055e-05	-7.3453180277e-03	-1.9990759774e-03	1.7320584122e-03	4.4095139414e-05	6.4752439293e-05
	47	2.0794118585e-03	5.7285637483e-03	3.3730101618e-03	-1.5710515939e-03	7.2813834830e-04	-1.3880047810e-03
	48	-1.3351856887e-02	1.0140897221e-02	-1.6998440404e-03	-8.4488594774e-04	-6.3567542642e-04	-2.3933019338e-03

2	1	-9.2115949317e-06	7.1500883212e-03	2.1170182363e-03	-1.4468115352e-03	3.2908041950e-04	-7.2499187032e-04
	2	2.4595395186e-03	-1.7302375386e-03	1.7937115751e-04	5.1037007187e-05	8.1138988230e-04	-1.2242151459e-03
	3	-1.2997967622e-02	2.0607285989e-03	-8.3083767274e-04	-7.8935862690e-05	-4.6489089356e-04	-2.3727526132e-03
	4	3.7773004232e-04	6.7551612289e-03	2.0980303742e-03	-1.4078569326e-03	4.3074508456e-04	-8.5833671770e-04
	5	-2.3424519460e-03	2.8732177539e-03	1.9393255256e-04	-2.9759753204e-04	-7.1295580918e-04	1.0342512343e-03
	6	-1.3674884445e-02	2.2581801464e-03	-8.4604424049e-04	-1.0205241140e-04	-4.8239533042e-04	-2.5113238052e-03
	7	-7.0370017574e-06	7.1456480465e-03	1.9626722134e-03	-1.3599882043e-03	4.1874376883e-05	-6.2803635552e-05
	8	-2.0580733390e-03	-1.8012637662e-03	-1.1239909900e-03	6.2126585478e-04	-8.5009090879e-04	1.4024917496e-03
	9	1.3390391233e-02	-3.3622405464e-03	5.1976433421e-04	3.1476624300e-04	4.7979988374e-04	2.4362143136e-03
	10	-1.0439685524e-04	6.3797199441e-03	1.9474478768e-03	-1.3272386250e-03	4.1907705412e-04	-9.6144015488e-04
	11	3.3085064063e-03	-3.5391606067e-03	-2.6306717609e-04	3.9545415905e-04	7.6324037431e-04	-8.9669191274e-04
	12	1.3132499867e-02	-9.4160786650e-04	1.1323482735e-03	-1.2585548326e-04	4.3811595938e-04	2.4757478509e-03
	13	-3.7773009003e-04	-6.7551611321e-03	-2.0980303612e-03	1.4078569201e-03	-4.3074510160e-04	8.5833674478e-04
	14	2.3424519381e-03	-2.8732179743e-03	-1.9393262195e-04	2.9759757865e-04	7.1295579262e-04	-1.0342511994e-03
	15	1.3674884534e-02	-2.2581801359e-03	8.4604425275e-04	1.0205240736e-04	4.8239533337e-04	2.5113238221e-03
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	34	9.1260468680e-03	1.4221049557e-02	-4.4020760691e-03	-1.7766469132e-03	-7.3754734333e-04	-2.0882645155e-03
	35	1.6136705299e-02	-7.1517900851e-03	1.6917694028e-03	6.6065966564e-04	-9.9854218473e-04	-2.5923108952e-03
	36	3.5854797182e-03	8.9192781137e-04	1.6866506793e-04	-3.4918691517e-04	1.2846721915e-03	3.3885120325e-03
	37	-9.1225089207e-03	-1.5169416851e-02	4.6561636899e-03	1.8976733227e-03	6.7558829968e-04	1.9328516939e-03
	38	1.5409774178e-02	-5.8848717950e-03	1.3090019838e-03	5.3118938453e-04	-1.0488504955e-03	-2.7362338872e-03
	39	4.4394363624e-03	-1.9245737147e-03	9.7772887107e-04	-2.8882861362e-05	1.2674140414e-03	3.3674985824e-03
	40	-6.9526794417e-03	-1.5963490953e-02	4.8328422700e-03	1.9674205719e-03	5.3492382367e-04	1.5658392819e-03
	41	-1.7512356098e-02	3.3061682637e-03	-5.0219528778e-04	-2.0294288202e-04	1.2042410029e-03	3.1725932660e-03
	42	4.3586476647e-03	-1.6380222193e-03	8.6966398216e-04	-5.1514094150e-05	1.1935461044e-03	3.1695011549e-03
	43	-9.1260467275e-03	-1.4221049615e-02	4.4020760837e-03	1.7766469182e-03	7.3754733721e-04	2.0882644997e-03
	44	-1.6136705529e-02	7.1517899369e-03	-1.6917693552e-03	-6.6065964494e-04	9.9854219637e-04	2.5923109275e-03
	45	-3.5854796404e-03	-8.9192792944e-04	-1.6866503208e-04	3.4918692696e-04	-1.2846721862e-03	-3.3885120175e-03
	46	-3.7090169434e-04	-1.5955328334e-02	4.6221120229e-03	1.9091932356e-03	-2.5095173067e-05	7.7897841215e-05
	47	1.8306196019e-02	4.4883357152e-03	-1.7915501128e-03	-7.2866140481e-04	-1.2921694758e-03	-3.4763278739e-03
	48	-4.6129453463e-03	4.4549818087e-03	-1.6916720630e-03	-2.7647835302e-04	-1.2091725202e-03	-3.2360492422e-03
119	1	6.9526797624e-03	1.1579141144e-02	-3.1932544145e-03	-1.3475555277e-03	-5.9453301391e-04	-1.5658393423e-03
	2	1.7512355847e-02	-1.2189428732e-02	3.8868571163e-03	1.6058223452e-03	-1.1161948814e-03	-3.1725932029e-03
	3	-4.3586476260e-03	-7.2365802369e-03	2.4802746373e-03	6.0818064906e-04	-1.1565283151e-03	-3.1695011881e-03
	4	9.1225085458e-03	9.7574330609e-03	-2.6241967409e-03	-1.1097968805e-03	-7.2249362418e-04	-1.9328516243e-03
	5	-1.5409774535e-02	1.3546325621e-02	-4.2334822268e-03	-1.7541840166e-03	9.5513087977e-04	2.7362339651e-03
	6	-4.4394363399e-03	-7.5044212433e-03	2.5813777631e-03	6.2763223018e-04	-1.2289475693e-03	-3.3674985590e-03
	7	3.7090204740e-04	1.5737214287e-02	-4.5656102429e-03	-1.8837093056e-03	-6.5152307391e-05	-7.7897916242e-05
	8	-1.8306196129e-02	5.2453817338e-03	-1.9027865081e-03	-7.7110298771e-04	1.2433110063e-03	3.4763278976e-03
	9	4.6129453467e-03	4.6059551840e-03	-1.7238248678e-03	-2.8443900150e-04	1.1875687866e-03	3.2360492149e-03
	10	9.1260468680e-03	8.3739095107e-03	-2.2039150608e-03	-9.5266773964e-04	-7.7649015990e-04	-2.0882645155e-03
	11	1.6136705299e-02	-1.4410259850e-02	4.4666696654e-03	1.8792748159e-03	-8.9909168548e-04	-2.5923108952e-03
	12	3.5854797182e-03	1.0379760533e-02	-3.4182697210e-03	-9.8685202186e-04	1.2287700263e-03	3.3885120325e-03
	13	-9.1225089207e-03	-9.7574326607e-03	2.6241966171e-03	1.1097968295e-03	7.2249364836e-04	1.9328516939e-03
	14	1.5409774178e-02	-1.3546325896e-02	4.2334822984e-03	1.7541840474e-03	-9.5513085089e-04	-2.7362338872e-03
	15	4.4394363624e-03	7.5044213526e-03	-2.5813777976e-03	-6.2763224155e-04	1.2289475777e-03	3.3674985824e-03
	16	-6.9526794417e-03	-1.1579141412e-02	3.1932544991e-03	1.3475555623e-03	5.9453299272e-04	1.5658392819e-03
	17	-1.7512356098e-02	1.2189428501e-02	-3.8868570560e-03	-1.6058223185e-03	1.1161949048e-03	3.1725932660e-03
	18	4.3586476647e-03	7.2365801075e-03	-2.4802745959e-03	-6.0818063471e-04	1.1565283032e-03	3.1695011549e-03
	19	-9.1260467275e-03	-8.3739096135e-03	2.2039150923e-03	9.5266775367e-04	7.7649015451e-04	2.0882644997e-03
	20	-1.6136705529e-02	1.4410259792e-02	-4.4666696521e-03	-1.8792748115e-03	8.9909169722e-04	2.5923109275e-03
	21	-3.5854796404e-03	-1.0379760609e-02	3.4182697413e-03	9.8685203326e-04	-1.2287700205e-03	-3.3885120175e-03
	22	-3.7090169434e-04	-1.5737214400e-02	4.5656102842e-03	1.8837093215e-03	6.5152280502e-05	7.7897841215e-05

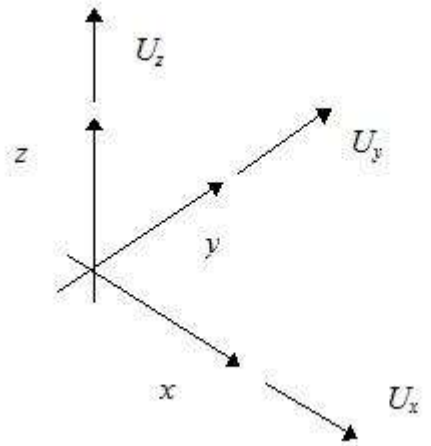
	23	1.8306196019e-02	-5.2453813371e-03	1.9027863902e-03	7.7110293946e-04	-1.2433109986e-03	-3.4763278739e-03
	24	-4.6129453463e-03	-4.6059551437e-03	1.7238248592e-03	2.8443899514e-04	-1.1875687968e-03	-3.2360492422e-03
	25	6.9526797624e-03	1.1579141144e-02	-3.1932544145e-03	-1.3475555277e-03	-5.9453301391e-04	-1.5658393423e-03
	26	1.7512355847e-02	-1.2189428732e-02	3.8868571163e-03	1.6058223452e-03	-1.1161948814e-03	-3.1725932029e-03
	27	-4.3586476260e-03	-7.2365802369e-03	2.4802746373e-03	6.0818064906e-04	-1.1565283151e-03	-3.1695011881e-03
	28	9.1225085458e-03	9.7574330609e-03	-2.6241967409e-03	-1.1097968805e-03	-7.2249362418e-04	-1.9328516243e-03
	29	-1.5409774535e-02	1.3546325621e-02	-4.2334822268e-03	-1.7541840166e-03	9.5513087977e-04	2.7362339651e-03
	30	-4.4394363399e-03	-7.5044212433e-03	2.5813777631e-03	6.2763223018e-04	-1.2289475693e-03	-3.3674985590e-03
	31	3.7090204740e-04	1.5737214287e-02	-4.5656102429e-03	-1.8837093056e-03	-6.5152307391e-05	-7.7897916242e-05
	32	-1.8306196129e-02	5.2453817338e-03	-1.9027865081e-03	-7.7110298771e-04	1.2433110063e-03	3.4763278976e-03
	33	4.6129453467e-03	4.6059551840e-03	-1.7238248678e-03	-2.8443900150e-04	1.1875687866e-03	3.2360492149e-03
	34	9.1260468680e-03	8.3739095107e-03	-2.2039150608e-03	-9.5266773964e-04	-7.7649015990e-04	-2.0882645155e-03
	35	1.6136705299e-02	-1.4410259850e-02	4.4666696654e-03	1.8792748159e-03	-8.9909168548e-04	-2.5923108952e-03
	36	3.5854797182e-03	1.0379760533e-02	-3.4182697210e-03	-9.8685202186e-04	1.2287700263e-03	3.3885120325e-03
	37	-9.1225089207e-03	-9.7574326607e-03	2.6241966171e-03	1.1097968295e-03	7.2249364836e-04	1.9328516939e-03
	38	1.5409774178e-02	-1.3546325896e-02	4.2334822984e-03	1.7541840474e-03	-9.5513085089e-04	-2.7362338872e-03
	39	4.4394363624e-03	7.5044213526e-03	-2.5813777976e-03	-6.2763224155e-04	1.2289475777e-03	3.3674985824e-03
	40	-6.9526794417e-03	-1.1579141412e-02	3.1932544991e-03	1.3475555623e-03	5.9453299272e-04	1.5658392819e-03
	41	-1.7512356098e-02	1.2189428501e-02	-3.8868570560e-03	-1.6058223185e-03	1.1161949048e-03	3.1725932660e-03
	42	4.3586476647e-03	7.2365801075e-03	-2.4802745959e-03	-6.0818063471e-04	1.1565283032e-03	3.1695011549e-03
	43	-9.1260467275e-03	-8.3739096135e-03	2.2039150923e-03	9.5266775367e-04	7.7649015451e-04	2.0882644997e-03
	44	-1.6136705529e-02	1.4410259792e-02	-4.4666696521e-03	-1.8792748115e-03	8.9909169722e-04	2.5923109275e-03
	45	-3.5854796404e-03	-1.0379760609e-02	3.4182697413e-03	9.8685203326e-04	-1.2287700205e-03	-3.3885120175e-03
	46	-3.7090169434e-04	-1.5737214400e-02	4.5656102842e-03	1.8837093215e-03	6.5152280502e-05	7.7897841215e-05
	47	1.8306196019e-02	-5.2453813371e-03	1.9027863902e-03	7.7110293946e-04	-1.2433109986e-03	-3.4763278739e-03
	48	-4.6129453463e-03	-4.6059551437e-03	1.7238248592e-03	2.8443899514e-04	-1.1875687968e-03	-3.2360492422e-03
120	1	6.9526797624e-03	7.1947906864e-03	-2.4101986972e-03	-8.9634140763e-04	3.8985092646e-05	-1.5658393423e-03
	2	1.7512355847e-02	-2.1072690305e-02	4.6093858373e-03	2.7383366974e-03	6.1200519474e-04	-3.1725932029e-03
	3	-4.3586476260e-03	-1.6111184168e-02	4.7930443972e-03	1.0645281080e-03	-4.8591904484e-04	-3.1695011881e-03
	4	9.1225085458e-03	4.3454481441e-03	-1.7747186094e-03	-5.2190151721e-04	1.2093569868e-04	-1.9328516243e-03
	5	-1.5409774535e-02	2.1207781245e-02	-4.7821080784e-03	-2.7499474208e-03	-5.7388318773e-04	2.7362339651e-03
	6	-4.4394363399e-03	-1.6933417851e-02	5.0286946843e-03	1.1176688845e-03	-5.0901413227e-04	-3.3674985590e-03
	7	3.7090204740e-04	1.5519100106e-02	-4.2611619616e-03	-1.9094084675e-03	-1.5380681777e-04	-7.7897916242e-05
	8	-1.8306196129e-02	1.4979100510e-02	-2.8981891425e-03	-1.9592556537e-03	-5.4437572783e-04	3.4763278976e-03
	9	4.6129453467e-03	1.3666893603e-02	-4.1453985768e-03	-7.3648361435e-04	5.3271849378e-04	3.2360492149e-03
	10	9.1260468680e-03	2.5267684689e-03	-1.2741139296e-03	-3.3252530242e-04	1.1815840212e-04	-2.0882645155e-03
	11	1.6136705299e-02	-2.1668730851e-02	4.8528537742e-03	2.8741176991e-03	6.3361745615e-04	-2.5923108952e-03
	12	3.5854797182e-03	1.9867594870e-02	-5.7703352146e-03	-1.5156609452e-03	4.4070419594e-04	3.3885120325e-03
	13	-9.1225089207e-03	-4.3454475491e-03	1.7747184714e-03	5.2190144125e-04	-1.2093571304e-04	1.9328516939e-03
	14	1.5409774178e-02	-2.1207781302e-02	4.7821081170e-03	2.7499474278e-03	5.7388318214e-04	-2.7362338872e-03
	15	4.4394363624e-03	1.6933418026e-02	-5.0286947343e-03	-1.1176688997e-03	5.0901413482e-04	3.3674985824e-03
	16	-6.9526794417e-03	-7.1947911239e-03	2.4101987957e-03	8.9634146361e-04	-3.8985081230e-05	1.5658392819e-03
	17	-1.7512356098e-02	2.1072690250e-02	-4.6093858064e-03	-2.7383366888e-03	-6.1200519735e-04	3.1725932660e-03
	18	4.3586476647e-03	1.6111183946e-02	-4.7930443382e-03	-1.0645280862e-03	4.8591904434e-04	3.1695011549e-03
	19	-9.1260467275e-03	-2.5267686160e-03	1.2741139604e-03	3.3252532383e-04	-1.1815839609e-04	2.0882644997e-03
	20	-1.6136705529e-02	2.1668730884e-02	-4.8528537679e-03	-2.8741177071e-03	-6.3361746299e-04	2.5923109275e-03
	21	-3.5854796404e-03	-1.9867594904e-02	5.7703352180e-03	1.5156609565e-03	-4.4070418976e-04	-3.3885120175e-03
	22	-3.7090169434e-04	-1.5519100430e-02	4.2611620272e-03	1.9094085078e-03	1.5380682751e-04	7.7897841215e-05
	23	1.8306196019e-02	-1.4979100047e-02	2.8981890232e-03	1.9592555966e-03	5.4437572107e-04	-3.4763278739e-03
	24	-4.6129453463e-03	-1.3666893639e-02	4.1453985874e-03	7.3648361273e-04	-5.3271849722e-04	-3.2360492422e-03
	25	6.9526797624e-03	7.1947906864e-03	-2.4101986972e-03	-8.9634140763e-04	3.8985092646e-05	-1.5658393423e-03
	26	1.7512355847e-02	-2.1072690305e-02	4.6093858373e-03	2.7383366974e-03	6.1200519474e-04	-3.1725932029e-03
	27	-4.3586476260e-03	-1.6111184168e-02	4.7930443972e-03	1.0645281080e-03	-4.8591904484e-04	-3.1695011881e-03
	28	9.1225085458e-03	4.3454481441e-03	-1.7747186094e-03	-5.2190151721e-04	1.2093569868e-04	-1.9328516243e-03
	29	-1.5409774535e-02	2.1207781245e-02	-4.7821080784e-03	-2.7499474208e-03	-5.7388318773e-04	2.7362339651e-03
	30	-4.4394363399e-03	-1.6933417851e-02	5.0286946843e-03	1.1176688845e-03	-5.0901413227e-04	-3.3674985590e-03
	31	3.7090204740e-04	1.5519100106e-02	-4.2611619616e-03	-1.9094084675e-03	-1.5380681777e-04	-7.7897916242e-05
	32	-1.8306196129e-02	1.4979100510e-02	-2.8981891425e-03	-1.9592556537e-03	-5.4437572783e-04	3.4763278976e-03

33	4.6129453467e-03	1.3666893603e-02	-4.1453985768e-03	-7.3648361435e-04	5.3271849378e-04	3.2360492149e-03
34	9.1260468680e-03	2.5267684689e-03	-1.2741139296e-03	-3.3252530242e-04	1.1815840212e-04	-2.0882645155e-03
35	1.6136705299e-02	-2.1668730851e-02	4.8528537742e-03	2.8741176991e-03	6.3361745615e-04	-2.5923108952e-03
36	3.5854797182e-03	1.9867594870e-02	-5.7703352146e-03	-1.5156609452e-03	4.4070419594e-04	3.3885120325e-03
37	-9.1225089207e-03	-4.3454475491e-03	1.7747184714e-03	5.2190144125e-04	-1.2093571304e-04	1.9328516939e-03
38	1.5409774178e-02	-2.1207781302e-02	4.7821081170e-03	2.7499474278e-03	5.7388318214e-04	-2.7362338872e-03
39	4.4394363624e-03	1.6933418026e-02	-5.0286947343e-03	-1.1176688997e-03	5.0901413482e-04	3.3674985824e-03
40	-6.9526794417e-03	-7.1947911239e-03	2.4101987957e-03	8.9634146361e-04	-3.8985081230e-05	1.5658392819e-03
41	-1.7512356098e-02	2.1072690250e-02	-4.6093858064e-03	-2.7383366888e-03	-6.1200519735e-04	3.1725932660e-03
42	4.3586476647e-03	1.6111183946e-02	-4.7930443382e-03	-1.0645280862e-03	4.8591904434e-04	3.1695011549e-03
43	-9.1260467275e-03	-2.5267686160e-03	1.2741139604e-03	3.3252532383e-04	-1.1815839609e-04	2.0882644997e-03
44	-1.6136705529e-02	2.1668730884e-02	-4.8528537679e-03	-2.8741177071e-03	-6.3361746299e-04	2.5923109275e-03
45	-3.5854796404e-03	-1.9867594904e-02	5.7703352180e-03	1.5156609565e-03	-4.4070418976e-04	-3.3885120175e-03
46	-3.7090169434e-04	-1.5519100430e-02	4.2611620272e-03	1.9094085078e-03	1.5380682751e-04	7.7897841215e-05
47	1.8306196019e-02	-1.4979100047e-02	2.8981890232e-03	1.9592555966e-03	5.4437572107e-04	-3.4763278739e-03
48	-4.6129453463e-03	-1.3666893639e-02	4.1453985874e-03	7.3648361273e-04	-5.3271849722e-04	-3.2360492422e-03

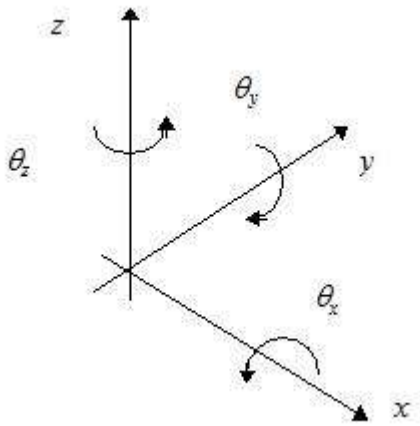
Spostamenti nodali

Convenzioni adottate

La terna di riferimento generale è destrorsa per cui si hanno i seguenti segni positivi per le componenti di spostamento nodale:



e per quanto riguarda le rotazioni:



Nel seguito vengono riportate, per ogni nodo (con esclusione dei nodi *K* che definiscono l'orientamento delle aste e quindi, essendo bloccati, hanno componenti di spostamento nulle), le componenti di spostamento in tutte le combinazioni di carico definite.

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
1	SLU Statiche -	-0.00	-0.02	-0.14	-0.00	0.00	0.00
	SLU Statiche +	-0.00	-0.01	-0.13	0.00	0.00	0.00
	SLV -	-0.06	-0.19	-0.16	-0.02	-0.00	-0.01
	SLV +	0.06	0.16	-0.04	0.02	0.01	0.01
	SLE Rare -	-0.00	-0.01	-0.10	-0.00	0.00	0.00
	SLE Rare +	-0.00	-0.01	-0.10	0.00	0.00	0.00
	SLE Frequenti -	-0.00	-0.01	-0.10	0.00	0.00	0.00
	SLE Frequenti +	-0.00	-0.01	-0.10	0.00	0.00	0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.10	0.00	0.00	0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.10	0.00	0.00	0.00
	SLD -	-0.03	-0.08	-0.12	-0.01	-0.00	-0.00
	SLD +	0.02	0.06	-0.07	0.01	0.00	0.00
2	SLU Statiche -	-0.00	-0.02	-0.14	-0.01	-0.00	-0.00
	SLU Statiche +	-0.00	-0.01	-0.14	-0.01	-0.00	-0.00
	SLV -	-0.06	-0.14	-0.14	-0.02	-0.01	-0.01
	SLV +	0.06	0.12	-0.06	0.01	0.01	0.01
	SLE Rare -	-0.00	-0.01	-0.10	-0.00	-0.00	-0.00
	SLE Rare +	-0.00	-0.01	-0.10	-0.00	-0.00	-0.00
	SLE Frequenti -	-0.00	-0.01	-0.10	-0.00	-0.00	-0.00
	SLE Frequenti +	-0.00	-0.01	-0.10	-0.00	-0.00	-0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.10	-0.00	-0.00	-0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.10	-0.00	-0.00	-0.00
	SLD -	-0.03	-0.07	-0.11	-0.01	-0.00	-0.01
	SLD +	0.02	0.04	-0.08	0.00	0.00	0.00
3	SLU Statiche -	-0.00	-0.02	-0.13	-0.01	-0.00	0.00
	SLU Statiche +	-0.00	-0.01	-0.13	-0.01	-0.00	0.00
	SLV -	-0.06	-0.14	-0.13	-0.02	-0.01	-0.01
	SLV +	0.06	0.12	-0.06	0.01	0.01	0.01
	SLE Rare -	-0.00	-0.01	-0.10	-0.00	-0.00	0.00
	SLE Rare +	-0.00	-0.01	-0.10	-0.00	-0.00	0.00
	SLE Frequenti -	-0.00	-0.01	-0.10	-0.00	-0.00	0.00
	SLE Frequenti +	-0.00	-0.01	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.10	-0.00	-0.00	0.00
	SLD -	-0.03	-0.07	-0.11	-0.01	-0.00	-0.00
	SLD +	0.03	0.04	-0.08	0.00	0.00	0.00
4	SLU Statiche -	-0.00	-0.01	-0.13	0.00	-0.00	0.00
	SLU Statiche +	-0.00	-0.01	-0.12	0.00	-0.00	0.00
	SLV -	-0.06	-0.15	-0.14	-0.02	-0.01	-0.01
	SLV +	0.06	0.13	-0.05	0.02	0.00	0.01
	SLE Rare -	-0.00	-0.01	-0.09	0.00	-0.00	0.00
	SLE Rare +	-0.00	-0.01	-0.09	0.00	-0.00	0.00
	SLE Frequenti -	-0.00	-0.01	-0.09	0.00	-0.00	0.00
	SLE Frequenti +	-0.00	-0.01	-0.09	0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.09	0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.09	0.00	-0.00	0.00
	SLD -	-0.03	-0.07	-0.11	-0.01	-0.00	-0.00
	SLD +	0.03	0.05	-0.07	0.01	0.00	0.00
5	SLU Statiche -	-0.00	-0.01	-0.14	0.00	0.00	-0.00
	SLU Statiche +	-0.00	-0.01	-0.13	0.00	0.00	-0.00
	SLV -	-0.06	-0.19	-0.11	-0.02	-0.00	-0.01
	SLV +	0.06	0.16	-0.08	0.02	0.01	0.01
	SLE Rare -	-0.00	-0.01	-0.10	0.00	0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Rare +	-0.00	-0.01	-0.10	0.00	0.00	-0.00
	SLE Frequenti -	-0.00	-0.01	-0.10	0.00	0.00	-0.00
	SLE Frequenti +	-0.00	-0.01	-0.10	0.00	0.00	-0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.10	0.00	0.00	-0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.10	0.00	0.00	-0.00
	SLD -	-0.03	-0.08	-0.10	-0.01	-0.00	-0.01
	SLD +	0.02	0.06	-0.09	0.01	0.00	0.00
6	SLU Statiche -	-0.00	-0.02	-0.14	0.00	0.00	-0.00
	SLU Statiche +	-0.00	-0.02	-0.14	0.01	0.00	-0.00
	SLV -	-0.06	-0.14	-0.11	-0.01	-0.00	-0.01
	SLV +	0.06	0.12	-0.09	0.01	0.00	0.01
	SLE Rare -	-0.00	-0.01	-0.11	0.00	0.00	-0.00
	SLE Rare +	-0.00	-0.01	-0.10	0.00	0.00	-0.00
	SLE Frequenti -	-0.00	-0.01	-0.10	0.00	0.00	-0.00
	SLE Frequenti +	-0.00	-0.01	-0.10	0.00	0.00	-0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.10	0.00	0.00	-0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.10	0.00	0.00	-0.00
	SLD -	-0.03	-0.07	-0.10	0.00	-0.00	-0.00
	SLD +	0.02	0.04	-0.10	0.01	0.00	0.00
7	SLU Statiche -	-0.00	-0.02	-0.14	0.00	-0.00	0.00
	SLU Statiche +	-0.00	-0.01	-0.14	0.01	-0.00	0.00
	SLV -	-0.06	-0.14	-0.11	-0.00	-0.00	-0.01
	SLV +	0.06	0.12	-0.09	0.01	0.00	0.01
	SLE Rare -	-0.00	-0.01	-0.10	0.00	-0.00	0.00
	SLE Rare +	-0.00	-0.01	-0.10	0.00	-0.00	0.00
	SLE Frequenti -	-0.00	-0.01	-0.10	0.00	-0.00	0.00
	SLE Frequenti +	-0.00	-0.01	-0.10	0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.10	0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.10	0.00	-0.00	0.00
	SLD -	-0.03	-0.07	-0.10	0.00	-0.00	-0.00
	SLD +	0.02	0.04	-0.10	0.01	-0.00	0.00
8	SLU Statiche -	-0.00	-0.01	-0.12	0.00	-0.00	0.00
	SLU Statiche +	-0.00	-0.01	-0.12	0.00	-0.00	0.00
	SLV -	-0.06	-0.15	-0.11	-0.02	-0.01	-0.01
	SLV +	0.06	0.13	-0.07	0.02	0.00	0.01
	SLE Rare -	-0.00	-0.01	-0.09	0.00	-0.00	0.00
	SLE Rare +	-0.00	-0.01	-0.09	0.00	-0.00	0.00
	SLE Frequenti -	-0.00	-0.01	-0.09	0.00	-0.00	0.00
	SLE Frequenti +	-0.00	-0.01	-0.09	0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.09	0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.09	0.00	-0.00	0.00
	SLD -	-0.03	-0.07	-0.10	-0.01	-0.00	-0.00
	SLD +	0.03	0.05	-0.08	0.01	-0.00	0.00
9	SLU Statiche -	-0.00	-0.01	-0.12	0.01	-0.00	-0.00
	SLU Statiche +	-0.00	-0.01	-0.12	0.01	-0.00	-0.00
	SLV -	-0.08	-0.19	-0.14	-0.02	-0.01	-0.01
	SLV +	0.07	0.17	-0.03	0.03	0.01	0.01
	SLE Rare -	-0.00	-0.01	-0.09	0.01	-0.00	-0.00
	SLE Rare +	-0.00	-0.01	-0.09	0.01	-0.00	-0.00
	SLE Frequenti -	-0.00	-0.01	-0.09	0.01	-0.00	-0.00
	SLE Frequenti +	-0.00	-0.01	-0.08	0.01	-0.00	-0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.08	0.01	-0.00	-0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.08	0.01	-0.00	-0.00
	SLD -	-0.03	-0.08	-0.11	-0.00	-0.00	-0.01
	SLD +	0.03	0.06	-0.06	0.01	0.00	0.00
10	SLU Statiche -	-0.00	-0.02	-0.11	0.02	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLU Statiche +	-0.00	-0.02	-0.11	0.02	-0.00	-0.00
	SLV -	-0.08	-0.14	-0.10	-0.00	-0.01	-0.01
	SLV +	0.07	0.12	-0.06	0.02	0.01	0.01
	SLE Rare -	-0.00	-0.01	-0.08	0.01	-0.00	-0.00
	SLE Rare +	-0.00	-0.01	-0.08	0.01	-0.00	-0.00
	SLE Frequenti -	-0.00	-0.01	-0.08	0.01	-0.00	-0.00
	SLE Frequenti +	-0.00	-0.01	-0.08	0.01	-0.00	-0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.08	0.01	-0.00	-0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.08	0.01	-0.00	-0.00
	SLD -	-0.03	-0.07	-0.09	0.01	-0.00	-0.00
	SLD +	0.03	0.04	-0.07	0.02	0.00	0.00
11	SLU Statiche -	-0.00	-0.02	-0.11	0.02	-0.00	0.00
	SLU Statiche +	-0.00	-0.01	-0.11	0.02	0.00	0.00
	SLV -	-0.08	-0.14	-0.10	-0.00	-0.00	-0.01
	SLV +	0.07	0.12	-0.06	0.02	0.00	0.01
	SLE Rare -	-0.00	-0.01	-0.08	0.01	0.00	0.00
	SLE Rare +	-0.00	-0.01	-0.08	0.01	0.00	0.00
	SLE Frequenti -	-0.00	-0.01	-0.08	0.01	-0.00	0.00
	SLE Frequenti +	-0.00	-0.01	-0.08	0.01	0.00	0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.08	0.01	-0.00	0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.08	0.01	-0.00	0.00
	SLD -	-0.03	-0.07	-0.09	0.01	-0.00	-0.00
	SLD +	0.03	0.04	-0.07	0.02	0.00	0.00
12	SLU Statiche -	-0.00	-0.01	-0.11	0.01	-0.00	0.00
	SLU Statiche +	-0.00	-0.01	-0.11	0.01	-0.00	0.00
	SLV -	-0.08	-0.15	-0.13	-0.01	-0.01	-0.01
	SLV +	0.07	0.13	-0.02	0.02	0.01	0.01
	SLE Rare -	-0.00	-0.01	-0.08	0.01	-0.00	0.00
	SLE Rare +	-0.00	-0.01	-0.08	0.01	0.00	0.00
	SLE Frequenti -	-0.00	-0.01	-0.08	0.01	-0.00	0.00
	SLE Frequenti +	-0.00	-0.01	-0.08	0.01	-0.00	0.00
	SLE Quasi Permanenti -	-0.00	-0.01	-0.08	0.01	-0.00	0.00
	SLE Quasi Permanenti +	-0.00	-0.01	-0.08	0.01	-0.00	0.00
	SLD -	-0.03	-0.07	-0.10	-0.00	-0.00	-0.00
	SLD +	0.03	0.05	-0.05	0.01	0.00	0.01
13	SLU Statiche -	-0.01	-0.02	-0.14	0.00	-0.00	0.00
	SLU Statiche +	-0.01	-0.02	-0.14	0.00	-0.00	0.00
	SLV -	-0.08	-0.30	-0.17	-0.02	-0.01	-0.02
	SLV +	0.07	0.26	-0.04	0.03	0.01	0.02
	SLE Rare -	-0.00	-0.02	-0.11	0.00	-0.00	0.00
	SLE Rare +	-0.00	-0.02	-0.10	0.00	-0.00	0.00
	SLE Frequenti -	-0.00	-0.02	-0.10	0.00	-0.00	0.00
	SLE Frequenti +	-0.00	-0.02	-0.10	0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.00	-0.02	-0.10	0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.00	-0.02	-0.10	0.00	-0.00	0.00
	SLD -	-0.04	-0.13	-0.13	-0.01	-0.00	-0.01
	SLD +	0.03	0.09	-0.07	0.01	0.00	0.01
14	SLU Statiche -	-0.01	-0.05	-0.14	0.02	-0.00	-0.01
	SLU Statiche +	-0.01	-0.05	-0.14	0.02	-0.00	-0.01
	SLV -	-0.08	-0.24	-0.14	-0.01	-0.01	-0.03
	SLV +	0.07	0.17	-0.06	0.04	0.01	0.01
	SLE Rare -	-0.00	-0.04	-0.10	0.02	-0.00	-0.01
	SLE Rare +	-0.00	-0.04	-0.10	0.02	-0.00	-0.01
	SLE Frequenti -	-0.00	-0.04	-0.10	0.01	-0.00	-0.01
	SLE Frequenti +	-0.00	-0.03	-0.10	0.02	-0.00	-0.01
	SLE Quasi Permanenti -	-0.00	-0.03	-0.10	0.01	-0.00	-0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Quasi Permanenti +	-0.00	-0.03	-0.10	0.01	-0.00	-0.01
	SLD -	-0.04	-0.12	-0.11	0.01	-0.00	-0.01
	SLD +	0.03	0.05	-0.08	0.02	0.00	0.00
15	SLU Statiche -	-0.01	-0.05	-0.13	0.02	-0.00	0.01
	SLU Statiche +	-0.01	-0.05	-0.13	0.02	-0.00	0.01
	SLV -	-0.08	-0.24	-0.13	-0.01	-0.01	-0.01
	SLV +	0.07	0.17	-0.06	0.04	0.01	0.02
	SLE Rare -	-0.00	-0.04	-0.10	0.02	-0.00	0.01
	SLE Rare +	-0.00	-0.04	-0.10	0.02	-0.00	0.01
	SLE Frequenti -	-0.00	-0.04	-0.10	0.02	-0.00	0.01
	SLE Frequenti +	-0.00	-0.03	-0.10	0.02	-0.00	0.01
	SLE Quasi Permanenti -	-0.00	-0.04	-0.10	0.02	-0.00	0.01
	SLE Quasi Permanenti +	-0.00	-0.04	-0.10	0.02	-0.00	0.01
	SLD -	-0.04	-0.12	-0.11	0.01	-0.00	-0.00
	SLD +	0.03	0.05	-0.08	0.02	0.00	0.01
16	SLU Statiche -	-0.01	-0.02	-0.13	0.00	-0.00	-0.00
	SLU Statiche +	-0.01	-0.02	-0.13	0.00	-0.00	-0.00
	SLV -	-0.08	-0.24	-0.14	-0.02	-0.01	-0.02
	SLV +	0.07	0.20	-0.05	0.02	0.01	0.02
	SLE Rare -	-0.00	-0.02	-0.10	0.00	-0.00	-0.00
	SLE Rare +	-0.00	-0.02	-0.10	0.00	-0.00	-0.00
	SLE Frequenti -	-0.00	-0.02	-0.10	0.00	-0.00	-0.00
	SLE Frequenti +	-0.00	-0.02	-0.09	0.00	-0.00	-0.00
	SLE Quasi Permanenti -	-0.00	-0.02	-0.09	0.00	-0.00	-0.00
	SLE Quasi Permanenti +	-0.00	-0.02	-0.09	0.00	-0.00	-0.00
	SLD -	-0.04	-0.11	-0.11	-0.01	-0.00	-0.01
	SLD +	0.03	0.07	-0.07	0.01	0.00	0.01
17	SLU Statiche -	-0.02	-0.02	-0.14	0.00	-0.01	0.01
	SLU Statiche +	-0.02	-0.02	-0.13	0.00	-0.01	0.01
	SLV -	-0.11	-0.30	-0.11	-0.02	-0.02	-0.01
	SLV +	0.09	0.26	-0.08	0.03	0.01	0.02
	SLE Rare -	-0.01	-0.02	-0.10	0.00	-0.01	0.01
	SLE Rare +	-0.01	-0.02	-0.10	0.00	-0.01	0.01
	SLE Frequenti -	-0.01	-0.02	-0.10	0.00	-0.00	0.00
	SLE Frequenti +	-0.01	-0.02	-0.10	0.00	-0.00	0.01
	SLE Quasi Permanenti -	-0.01	-0.02	-0.10	0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	-0.02	-0.10	0.00	-0.00	0.00
	SLD -	-0.05	-0.13	-0.10	-0.01	-0.01	-0.00
	SLD +	0.03	0.09	-0.09	0.01	0.00	0.01
18	SLU Statiche -	0.02	-0.03	-0.12	0.00	0.01	-0.02
	SLU Statiche +	0.02	-0.02	-0.12	0.00	0.01	-0.02
	SLV -	-0.09	-0.24	-0.10	-0.02	-0.01	-0.03
	SLV +	0.11	0.20	-0.07	0.02	0.02	0.01
	SLE Rare -	0.01	-0.02	-0.09	0.00	0.01	-0.01
	SLE Rare +	0.01	-0.02	-0.09	0.00	0.01	-0.01
	SLE Frequenti -	0.01	-0.02	-0.09	0.00	0.01	-0.01
	SLE Frequenti +	0.01	-0.02	-0.09	0.00	0.01	-0.01
	SLE Quasi Permanenti -	0.01	-0.02	-0.09	0.00	0.01	-0.01
	SLE Quasi Permanenti +	0.01	-0.02	-0.09	0.00	0.01	-0.01
	SLD -	-0.03	-0.11	-0.09	-0.01	0.00	-0.02
	SLD +	0.05	0.07	-0.08	0.01	0.01	-0.00
19	SLU Statiche -	-0.04	-0.02	-0.14	0.00	-0.02	0.01
	SLU Statiche +	-0.04	-0.02	-0.13	0.00	-0.02	0.01
	SLV -	-0.15	-0.30	-0.16	-0.03	-0.04	-0.01
	SLV +	0.11	0.26	-0.02	0.03	0.02	0.02
	SLE Rare -	-0.03	-0.02	-0.10	0.00	-0.01	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Rare +	-0.03	-0.02	-0.10	0.00	-0.01	0.01
	SLE Frequenti -	-0.03	-0.02	-0.09	0.00	-0.01	0.01
	SLE Frequenti +	-0.02	-0.02	-0.09	0.00	-0.01	0.01
	SLE Quasi Permanenti -	-0.02	-0.02	-0.09	0.00	-0.01	0.01
	SLE Quasi Permanenti +	-0.02	-0.02	-0.09	0.00	-0.01	0.01
	SLD -	-0.08	-0.13	-0.12	-0.01	-0.02	-0.00
	SLD +	0.03	0.09	-0.06	0.01	0.00	0.01
20	SLU Statiche -	0.06	-0.02	-0.12	0.00	0.03	-0.02
	SLU Statiche +	0.07	-0.02	-0.12	0.00	0.03	-0.02
	SLV -	-0.09	-0.24	-0.14	-0.02	-0.01	-0.03
	SLV +	0.17	0.20	-0.02	0.02	0.05	0.01
	SLE Rare -	0.04	-0.02	-0.09	0.00	0.02	-0.01
	SLE Rare +	0.05	-0.02	-0.09	0.00	0.03	-0.01
	SLE Frequenti -	0.04	-0.02	-0.08	0.00	0.02	-0.01
	SLE Frequenti +	0.04	-0.02	-0.08	0.00	0.02	-0.01
	SLE Quasi Permanenti -	0.04	-0.02	-0.08	0.00	0.02	-0.01
	SLE Quasi Permanenti +	0.04	-0.02	-0.08	0.00	0.02	-0.01
	SLD -	-0.02	-0.11	-0.11	-0.01	0.01	-0.02
	SLD +	0.09	0.07	-0.06	0.01	0.03	-0.00
101	SLU Statiche -	-0.01	-0.03	-0.14	-0.00	-0.00	-0.00
	SLU Statiche +	-0.01	-0.02	-0.14	0.00	-0.00	-0.00
	SLV -	-0.10	-0.41	-0.17	-0.03	-0.01	-0.03
	SLV +	0.09	0.36	-0.03	0.03	0.01	0.03
	SLE Rare -	-0.01	-0.02	-0.11	-0.00	-0.00	-0.00
	SLE Rare +	-0.01	-0.02	-0.10	0.00	-0.00	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.10	0.00	-0.00	-0.00
	SLE Frequenti +	-0.01	-0.02	-0.10	0.00	-0.00	-0.00
	SLE Quasi Permanenti -	-0.01	-0.03	-0.10	0.00	-0.00	-0.00
	SLE Quasi Permanenti +	-0.01	-0.03	-0.10	0.00	-0.00	-0.00
	SLD -	-0.05	-0.18	-0.13	-0.01	-0.00	-0.01
	SLD +	0.04	0.13	-0.07	0.01	0.00	0.01
102	SLU Statiche -	-0.01	-0.03	-0.14	-0.03	-0.00	-0.00
	SLU Statiche +	-0.01	-0.02	-0.14	-0.03	-0.00	-0.00
	SLV -	-0.10	-0.31	-0.14	-0.04	-0.01	-0.03
	SLV +	0.09	0.26	-0.06	0.00	0.01	0.03
	SLE Rare -	-0.01	-0.02	-0.10	-0.03	-0.00	-0.00
	SLE Rare +	-0.01	-0.02	-0.10	-0.02	-0.00	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.10	-0.02	-0.00	-0.00
	SLE Frequenti +	-0.01	-0.02	-0.10	-0.02	-0.00	-0.00
	SLE Quasi Permanenti -	-0.01	-0.03	-0.10	-0.02	-0.00	-0.00
	SLE Quasi Permanenti +	-0.01	-0.03	-0.10	-0.02	-0.00	-0.00
	SLD -	-0.05	-0.15	-0.12	-0.03	-0.00	-0.01
	SLD +	0.04	0.09	-0.08	-0.01	0.00	0.01
103	SLU Statiche -	-0.01	-0.03	-0.13	-0.03	-0.00	-0.00
	SLU Statiche +	-0.01	-0.02	-0.13	-0.03	-0.00	-0.00
	SLV -	-0.10	-0.32	-0.14	-0.04	-0.01	-0.03
	SLV +	0.09	0.26	-0.06	0.00	0.01	0.03
	SLE Rare -	-0.01	-0.02	-0.10	-0.03	-0.00	-0.00
	SLE Rare +	-0.01	-0.02	-0.10	-0.02	-0.00	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.10	-0.02	-0.00	-0.00
	SLE Frequenti +	-0.01	-0.03	-0.10	-0.02	-0.00	-0.00
	SLE Quasi Permanenti -	-0.01	-0.03	-0.10	-0.02	-0.00	-0.00
	SLE Quasi Permanenti +	-0.01	-0.03	-0.10	-0.02	-0.00	-0.00
	SLD -	-0.05	-0.15	-0.11	-0.03	-0.00	-0.01
	SLD +	0.04	0.09	-0.08	-0.01	0.00	0.01
104	SLU Statiche -	-0.01	-0.03	-0.13	0.00	-0.00	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLU Statiche +	-0.01	-0.03	-0.13	0.00	-0.00	-0.00
	SLV -	-0.10	-0.34	-0.14	-0.02	-0.01	-0.03
	SLV +	0.09	0.28	-0.04	0.02	0.01	0.03
	SLE Rare -	-0.01	-0.02	-0.10	0.00	-0.00	-0.00
	SLE Rare +	-0.01	-0.02	-0.10	0.00	-0.00	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.09	0.00	-0.00	-0.00
	SLE Frequenti +	-0.01	-0.03	-0.09	0.00	-0.00	-0.00
	SLE Quasi Permanenti -	-0.01	-0.03	-0.09	0.00	-0.00	-0.00
	SLE Quasi Permanenti +	-0.01	-0.03	-0.09	0.00	-0.00	-0.00
	SLD -	-0.05	-0.16	-0.11	-0.01	-0.00	-0.01
	SLD +	0.04	0.10	-0.07	0.01	0.00	0.01
105	SLU Statiche -	-0.01	-0.03	-0.14	0.00	0.01	-0.00
	SLU Statiche +	-0.01	-0.02	-0.14	0.00	0.01	-0.00
	SLV -	-0.14	-0.41	-0.11	-0.02	0.00	-0.03
	SLV +	0.13	0.36	-0.08	0.03	0.01	0.03
	SLE Rare -	-0.01	-0.02	-0.10	0.00	0.01	-0.00
	SLE Rare +	-0.01	-0.02	-0.10	0.00	0.01	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.10	0.00	0.01	-0.00
	SLE Frequenti +	-0.01	-0.02	-0.10	0.00	0.01	-0.00
	SLE Quasi Permanenti -	-0.01	-0.03	-0.10	0.00	0.01	-0.00
	SLE Quasi Permanenti +	-0.01	-0.03	-0.10	0.00	0.01	-0.00
	SLD -	-0.06	-0.18	-0.11	-0.01	0.00	-0.01
	SLD +	0.05	0.13	-0.09	0.01	0.01	0.01
106	SLU Statiche -	-0.01	-0.03	-0.27	-0.07	0.03	-0.00
	SLU Statiche +	-0.01	-0.02	-0.25	-0.06	0.04	-0.00
	SLV -	-0.14	-0.31	-0.19	-0.06	0.02	-0.03
	SLV +	0.13	0.26	-0.16	-0.02	0.03	0.03
	SLE Rare -	-0.01	-0.02	-0.20	-0.05	0.03	-0.00
	SLE Rare +	-0.01	-0.02	-0.19	-0.04	0.03	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.18	-0.04	0.02	-0.00
	SLE Frequenti +	-0.01	-0.02	-0.17	-0.04	0.02	-0.00
	SLE Quasi Permanenti -	-0.01	-0.03	-0.17	-0.04	0.02	-0.00
	SLE Quasi Permanenti +	-0.01	-0.03	-0.17	-0.04	0.02	-0.00
	SLD -	-0.06	-0.15	-0.18	-0.05	0.02	-0.01
	SLD +	0.05	0.09	-0.17	-0.03	0.02	0.01
107	SLU Statiche -	-0.01	-0.03	-0.28	-0.08	-0.04	-0.00
	SLU Statiche +	-0.01	-0.02	-0.26	-0.07	-0.03	-0.00
	SLV -	-0.14	-0.32	-0.19	-0.06	-0.02	-0.03
	SLV +	0.13	0.26	-0.16	-0.02	-0.02	0.03
	SLE Rare -	-0.01	-0.02	-0.21	-0.06	-0.03	-0.00
	SLE Rare +	-0.01	-0.02	-0.19	-0.05	-0.02	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.18	-0.05	-0.02	-0.00
	SLE Frequenti +	-0.01	-0.03	-0.18	-0.04	-0.02	-0.00
	SLE Quasi Permanenti -	-0.01	-0.03	-0.18	-0.04	-0.02	-0.00
	SLE Quasi Permanenti +	-0.01	-0.03	-0.18	-0.04	-0.02	-0.00
	SLD -	-0.06	-0.15	-0.19	-0.05	-0.02	-0.01
	SLD +	0.05	0.09	-0.17	-0.03	-0.02	0.01
108	SLU Statiche -	-0.01	-0.03	-0.13	0.00	-0.03	-0.00
	SLU Statiche +	-0.01	-0.03	-0.12	0.00	-0.02	-0.00
	SLV -	-0.14	-0.34	-0.11	-0.02	-0.02	-0.03
	SLV +	0.13	0.28	-0.07	0.02	-0.01	0.03
	SLE Rare -	-0.01	-0.02	-0.09	0.00	-0.02	-0.00
	SLE Rare +	-0.01	-0.02	-0.09	0.00	-0.02	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.09	0.00	-0.02	-0.00
	SLE Frequenti +	-0.01	-0.03	-0.09	0.00	-0.02	-0.00
	SLE Quasi Permanenti -	-0.01	-0.03	-0.09	0.00	-0.02	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Quasi Permanenti +	-0.01	-0.03	-0.09	0.00	-0.02	-0.00
	SLD -	-0.06	-0.16	-0.10	-0.01	-0.02	-0.01
	SLD +	0.05	0.10	-0.08	0.01	-0.01	0.01
109	SLU Statiche -	-0.01	-0.03	-0.14	-0.00	0.03	-0.00
	SLU Statiche +	-0.01	-0.02	-0.14	-0.00	0.04	-0.00
	SLV -	-0.20	-0.41	-0.17	-0.03	0.01	-0.03
	SLV +	0.19	0.36	-0.02	0.03	0.03	0.03
	SLE Rare -	-0.01	-0.02	-0.11	-0.00	0.02	-0.00
	SLE Rare +	-0.01	-0.02	-0.10	-0.00	0.03	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.10	-0.00	0.02	-0.00
	SLE Frequenti +	-0.01	-0.02	-0.10	-0.00	0.02	-0.00
	SLE Quasi Permanenti -	-0.01	-0.03	-0.10	-0.00	0.02	-0.00
	SLE Quasi Permanenti +	-0.01	-0.03	-0.10	-0.00	0.02	-0.00
	SLD -	-0.09	-0.18	-0.12	-0.01	0.02	-0.01
	SLD +	0.08	0.13	-0.07	0.01	0.02	0.01
110	SLU Statiche -	-0.01	-0.03	-0.43	-0.06	0.07	-0.00
	SLU Statiche +	-0.01	-0.02	-0.39	-0.05	0.08	-0.00
	SLV -	-0.20	-0.31	-0.33	-0.05	0.04	-0.03
	SLV +	0.19	0.26	-0.19	-0.01	0.06	0.03
	SLE Rare -	-0.01	-0.02	-0.32	-0.04	0.05	-0.00
	SLE Rare +	-0.01	-0.02	-0.29	-0.04	0.06	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.27	-0.03	0.05	-0.00
	SLE Frequenti +	-0.01	-0.02	-0.26	-0.03	0.05	-0.00
	SLE Quasi Permanenti -	-0.01	-0.03	-0.26	-0.03	0.05	-0.00
	SLE Quasi Permanenti +	-0.01	-0.03	-0.26	-0.03	0.05	-0.00
	SLD -	-0.09	-0.15	-0.29	-0.04	0.04	-0.01
	SLD +	0.08	0.09	-0.23	-0.02	0.05	0.01
111	SLU Statiche -	-0.01	-0.03	-0.47	-0.07	-0.07	-0.00
	SLU Statiche +	-0.01	-0.02	-0.42	-0.06	-0.06	-0.00
	SLV -	-0.20	-0.32	-0.35	-0.06	-0.05	-0.03
	SLV +	0.19	0.26	-0.22	-0.02	-0.03	0.03
	SLE Rare -	-0.01	-0.02	-0.35	-0.05	-0.05	-0.00
	SLE Rare +	-0.01	-0.02	-0.32	-0.05	-0.04	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.30	-0.04	-0.04	-0.00
	SLE Frequenti +	-0.01	-0.03	-0.28	-0.04	-0.04	-0.00
	SLE Quasi Permanenti -	-0.01	-0.03	-0.28	-0.04	-0.04	-0.00
	SLE Quasi Permanenti +	-0.01	-0.03	-0.28	-0.04	-0.04	-0.00
	SLD -	-0.09	-0.15	-0.31	-0.05	-0.04	-0.01
	SLD +	0.08	0.09	-0.26	-0.03	-0.04	0.01
112	SLU Statiche -	-0.01	-0.03	-0.12	-0.00	-0.07	-0.00
	SLU Statiche +	-0.01	-0.03	-0.12	-0.00	-0.06	-0.00
	SLV -	-0.20	-0.34	-0.15	-0.02	-0.05	-0.03
	SLV +	0.19	0.28	-0.02	0.02	-0.04	0.03
	SLE Rare -	-0.01	-0.02	-0.09	-0.00	-0.05	-0.00
	SLE Rare +	-0.01	-0.02	-0.09	-0.00	-0.05	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.09	0.00	-0.04	-0.00
	SLE Frequenti +	-0.01	-0.03	-0.09	0.00	-0.04	-0.00
	SLE Quasi Permanenti -	-0.01	-0.03	-0.09	0.00	-0.04	-0.00
	SLE Quasi Permanenti +	-0.01	-0.03	-0.09	0.00	-0.04	-0.00
	SLD -	-0.09	-0.16	-0.11	-0.01	-0.04	-0.01
	SLD +	0.08	0.10	-0.06	0.01	-0.04	0.01
113	SLU Statiche -	-0.01	-0.03	-0.17	0.01	-0.02	-0.00
	SLU Statiche +	-0.01	-0.02	-0.16	0.01	-0.01	-0.00
	SLV -	-0.10	-0.49	-0.21	-0.02	-0.02	-0.03
	SLV +	0.09	0.44	-0.03	0.03	-0.00	0.03
	SLE Rare -	-0.01	-0.02	-0.13	0.00	-0.01	-0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Rare +	-0.01	-0.02	-0.12	0.00	-0.01	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.12	0.00	-0.01	-0.00
	SLE Frequenti +	-0.01	-0.02	-0.12	0.00	-0.01	-0.00
	SLE Quasi Permanenti -	-0.01	-0.03	-0.12	0.00	-0.01	-0.00
	SLE Quasi Permanenti +	-0.01	-0.03	-0.12	0.00	-0.01	-0.00
	SLD -	-0.05	-0.21	-0.15	-0.01	-0.01	-0.01
	SLD +	0.04	0.16	-0.08	0.02	-0.01	0.01
114	SLU Statiche -	-0.01	-0.03	-0.15	0.01	-0.02	-0.00
	SLU Statiche +	-0.01	-0.02	-0.14	0.01	-0.01	-0.00
	SLV -	-0.14	-0.49	-0.14	-0.02	-0.02	-0.03
	SLV +	0.13	0.44	-0.07	0.03	-0.00	0.03
	SLE Rare -	-0.01	-0.02	-0.11	0.01	-0.01	-0.00
	SLE Rare +	-0.01	-0.02	-0.11	0.01	-0.01	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.10	0.01	-0.01	-0.00
	SLE Frequenti +	-0.01	-0.02	-0.10	0.01	-0.01	-0.00
	SLE Quasi Permanenti -	-0.01	-0.03	-0.10	0.01	-0.01	-0.00
	SLE Quasi Permanenti +	-0.01	-0.03	-0.10	0.01	-0.01	-0.00
	SLD -	-0.06	-0.21	-0.12	-0.00	-0.01	-0.01
	SLD +	0.05	0.16	-0.09	0.02	-0.01	0.01
115	SLU Statiche -	-0.01	-0.03	-0.11	0.01	-0.02	-0.00
	SLU Statiche +	-0.01	-0.02	-0.11	0.01	-0.02	-0.00
	SLV -	-0.20	-0.49	-0.14	-0.02	-0.02	-0.03
	SLV +	0.19	0.44	-0.02	0.04	-0.01	0.03
	SLE Rare -	-0.01	-0.02	-0.09	0.01	-0.01	-0.00
	SLE Rare +	-0.01	-0.02	-0.08	0.01	-0.01	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.08	0.01	-0.01	-0.00
	SLE Frequenti +	-0.01	-0.02	-0.08	0.01	-0.01	-0.00
	SLE Quasi Permanenti -	-0.01	-0.03	-0.08	0.01	-0.01	-0.00
	SLE Quasi Permanenti +	-0.01	-0.03	-0.08	0.01	-0.01	-0.00
	SLD -	-0.09	-0.21	-0.11	-0.00	-0.01	-0.01
	SLD +	0.08	0.16	-0.06	0.02	-0.01	0.01
116	SLU Statiche -	-0.01	-0.03	-0.10	0.01	-0.02	-0.00
	SLU Statiche +	-0.01	-0.02	-0.10	0.01	-0.01	-0.00
	SLV -	-0.22	-0.49	-0.15	-0.02	-0.02	-0.03
	SLV +	0.21	0.44	0.01	0.04	-0.00	0.03
	SLE Rare -	-0.01	-0.02	-0.08	0.01	-0.01	-0.00
	SLE Rare +	-0.01	-0.02	-0.08	0.01	-0.01	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.07	0.01	-0.01	-0.00
	SLE Frequenti +	-0.00	-0.02	-0.07	0.01	-0.01	-0.00
	SLE Quasi Permanenti -	-0.00	-0.03	-0.07	0.01	-0.01	-0.00
	SLE Quasi Permanenti +	-0.00	-0.03	-0.07	0.01	-0.01	-0.00
	SLD -	-0.10	-0.21	-0.11	-0.00	-0.01	-0.01
	SLD +	0.09	0.16	-0.04	0.02	-0.01	0.01
117	SLU Statiche -	-0.01	-0.03	-0.15	-0.01	0.04	-0.00
	SLU Statiche +	-0.01	-0.02	-0.14	-0.01	0.05	-0.00
	SLV -	-0.22	-0.41	-0.19	-0.03	0.02	-0.03
	SLV +	0.21	0.36	-0.00	0.02	0.03	0.03
	SLE Rare -	-0.01	-0.02	-0.11	-0.01	0.03	-0.00
	SLE Rare +	-0.01	-0.02	-0.10	-0.00	0.03	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.10	-0.00	0.03	-0.00
	SLE Frequenti +	-0.00	-0.02	-0.10	-0.00	0.03	-0.00
	SLE Quasi Permanenti -	-0.00	-0.03	-0.10	-0.00	0.03	-0.00
	SLE Quasi Permanenti +	-0.00	-0.03	-0.10	-0.00	0.03	-0.00
	SLD -	-0.10	-0.18	-0.14	-0.01	0.02	-0.01
	SLD +	0.09	0.13	-0.06	0.01	0.03	0.01
118	SLU Statiche -	-0.01	-0.03	-0.48	-0.06	0.07	-0.00

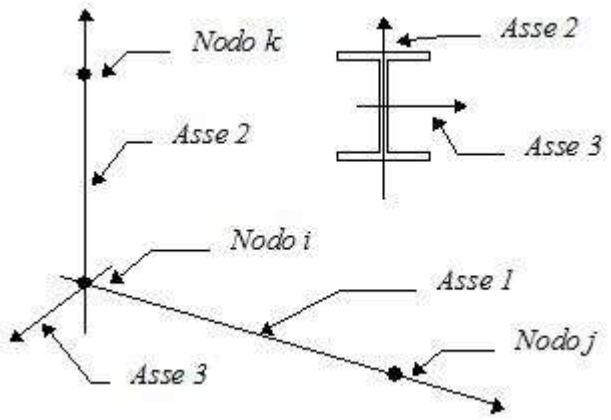
Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLU Statiche +	-0.01	-0.02	-0.43	-0.05	0.08	-0.00
	SLV -	-0.22	-0.31	-0.37	-0.05	0.04	-0.03
	SLV +	0.21	0.26	-0.20	-0.01	0.06	0.03
	SLE Rare -	-0.01	-0.02	-0.36	-0.04	0.06	-0.00
	SLE Rare +	-0.01	-0.02	-0.32	-0.04	0.06	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.30	-0.03	0.05	-0.00
	SLE Frequenti +	-0.00	-0.02	-0.29	-0.03	0.05	-0.00
	SLE Quasi Permanenti -	-0.00	-0.03	-0.29	-0.03	0.05	-0.00
	SLE Quasi Permanenti +	-0.00	-0.03	-0.29	-0.03	0.05	-0.00
	SLD -	-0.10	-0.15	-0.32	-0.04	0.04	-0.01
	SLD +	0.09	0.09	-0.25	-0.02	0.05	0.01
119	SLU Statiche -	-0.01	-0.03	-0.53	-0.07	-0.06	-0.00
	SLU Statiche +	-0.01	-0.02	-0.47	-0.06	-0.06	-0.00
	SLV -	-0.22	-0.32	-0.40	-0.06	-0.05	-0.03
	SLV +	0.21	0.26	-0.23	-0.02	-0.03	0.03
	SLE Rare -	-0.01	-0.02	-0.39	-0.05	-0.05	-0.00
	SLE Rare +	-0.01	-0.02	-0.36	-0.04	-0.04	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.33	-0.04	-0.04	-0.00
	SLE Frequenti +	-0.00	-0.03	-0.32	-0.04	-0.04	-0.00
	SLE Quasi Permanenti -	-0.00	-0.03	-0.32	-0.04	-0.04	-0.00
	SLE Quasi Permanenti +	-0.00	-0.03	-0.32	-0.04	-0.04	-0.00
	SLD -	-0.10	-0.15	-0.35	-0.05	-0.04	-0.01
	SLD +	0.09	0.09	-0.28	-0.03	-0.03	0.01
120	SLU Statiche -	-0.01	-0.03	-0.13	-0.01	-0.09	-0.00
	SLU Statiche +	-0.01	-0.03	-0.13	-0.01	-0.08	-0.00
	SLV -	-0.22	-0.34	-0.17	-0.03	-0.06	-0.03
	SLV +	0.21	0.28	-0.01	0.02	-0.05	0.03
	SLE Rare -	-0.01	-0.02	-0.10	-0.01	-0.07	-0.00
	SLE Rare +	-0.01	-0.02	-0.09	-0.01	-0.06	-0.00
	SLE Frequenti -	-0.01	-0.03	-0.09	-0.01	-0.06	-0.00
	SLE Frequenti +	-0.00	-0.03	-0.09	-0.01	-0.05	-0.00
	SLE Quasi Permanenti -	-0.00	-0.03	-0.09	-0.01	-0.05	-0.00
	SLE Quasi Permanenti +	-0.00	-0.03	-0.09	-0.01	-0.05	-0.00
	SLD -	-0.10	-0.16	-0.12	-0.01	-0.06	-0.01
	SLD +	0.09	0.10	-0.05	0.00	-0.05	0.01

Sollecitazioni nelle travi

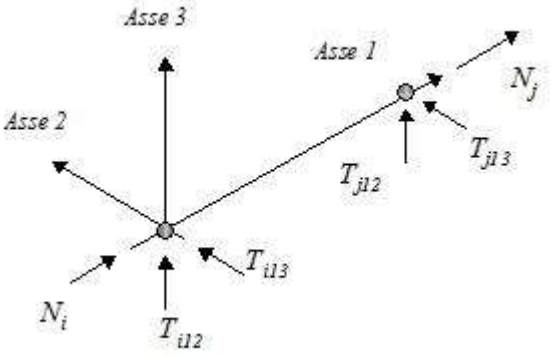
Convenzioni adottate

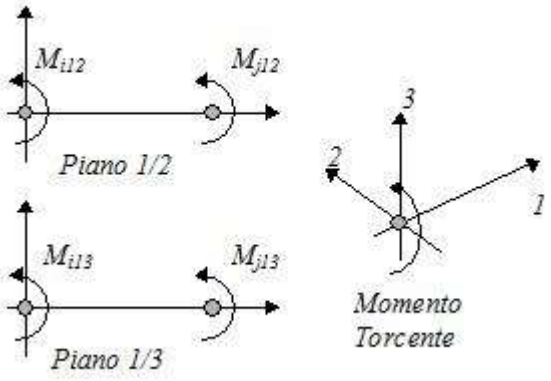
Le sollecitazioni nelle travi sono da intendersi nel sistema di riferimento locale dell'elemento, e si riferiscono all'asta. L'orientamento della trave nello spazio è definito a mezzo del nodo *K*.

La terna di riferimento locale dell'asta è così disposta:



Per quanto concerne i segni positivi assunti per le varie componenti di sollecitazione si assumono come positivi i versi e le sollecitazioni se così diretti:





Per ogni trave vengono riportate, nelle varie combinazioni di carico, le componenti di sollecitazione alle estremità dell'asta.

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLU Statiche -	2	-27.85	34.47	0.48	728.3	-126.8	1395.7
	1	27.50	33.77	-0.51	-795.8	-15.9	-1306.0
SLU Statiche +	2	-27.50	34.48	0.51	795.8	-120.3	1402.5
	1	27.85	33.78	-0.48	-728.3	-15.3	-1297.6
SLV -	2	-31.19	24.47	-0.71	-624.0	-203.7	878.8
	1	9.79	23.88	-1.39	-1766.0	-189.4	-1484.7
SLV +	2	-9.79	28.62	1.39	1766.0	34.7	1282.7

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	1	31.19	28.03	0.71	624.0	166.7	-512.2
SLE Rare -	2	-20.94	26.52	0.37	533.6	-94.8	1078.3
	1	20.71	25.97	-0.38	-578.6	-12.1	-1005.8
SLE Rare +	2	-20.71	26.53	0.38	578.6	-90.6	1082.8
	1	20.94	25.98	-0.37	-533.6	-11.7	-1000.2
SLE Frequenti -	2	-20.83	26.54	0.34	553.0	-86.2	1077.2
	1	20.40	25.96	-0.35	-597.3	-11.5	-1000.6
SLE Frequenti +	2	-20.40	26.54	0.35	597.3	-84.5	1082.5
	1	20.83	25.96	-0.34	-553.0	-11.3	-996.5
SLE Quasi Permanenti -	2	-20.49	26.54	0.34	571.0	-84.5	1080.7
	1	20.49	25.96	-0.34	-571.0	-11.4	-998.4
SLE Quasi Permanenti +	2	-20.49	26.54	0.34	571.0	-84.5	1080.7
	1	20.49	25.96	-0.34	-571.0	-11.4	-998.4
SLD -	2	-25.06	25.68	-0.08	87.2	-132.5	994.6
	1	15.92	25.09	-0.77	-1054.7	-83.2	-1195.9
SLD +	2	-15.92	27.41	0.77	1054.7	-36.5	1166.8
	1	25.06	26.82	0.08	-87.2	60.4	-800.9
SLU Statiche -	3	-35.50	34.11	0.10	22.2	101.7	1543.5
	2	35.09	34.14	-0.11	-25.1	-135.5	-1547.7
SLU Statiche +	3	-35.09	34.11	0.11	25.1	103.7	1544.1
	2	35.50	34.14	-0.10	-22.2	-130.3	-1546.8
SLV -	3	-59.10	24.65	-0.31	-1225.1	-92.6	956.2
	2	-9.10	24.66	-0.45	-1259.9	-260.2	-1415.0
SLV +	3	9.10	27.84	0.45	1259.9	237.1	1430.5
	2	59.10	27.85	0.31	1225.1	76.8	-975.6
SLE Rare -	3	-26.49	26.24	0.08	17.1	76.1	1190.0
	2	26.22	26.26	-0.08	-19.0	-101.2	-1193.1
SLE Rare +	3	-26.22	26.24	0.08	19.0	77.4	1190.4
	2	26.49	26.26	-0.08	-17.1	-97.7	-1192.4
SLE Frequenti -	3	-25.47	26.24	0.07	17.3	72.3	1191.6
	2	25.00	26.26	-0.07	-17.5	-93.1	-1195.6
SLE Frequenti +	3	-25.00	26.24	0.07	17.5	73.5	1193.4
	2	25.47	26.26	-0.07	-17.3	-91.7	-1193.6
SLE Quasi Permanenti -	3	-25.00	26.24	0.07	17.4	72.3	1193.4
	2	25.00	26.26	-0.07	-17.4	-91.7	-1195.3
SLE Quasi Permanenti +	3	-25.00	26.24	0.07	17.4	72.3	1193.4
	2	25.00	26.26	-0.07	-17.4	-91.7	-1195.3
SLD -	3	-39.19	25.56	-0.09	-492.1	3.8	1092.3
	2	10.81	25.58	-0.23	-527.0	-162.1	-1288.8
SLD +	3	-10.81	26.92	0.23	527.0	140.7	1294.5
	2	39.19	26.94	0.09	492.1	-21.3	-1101.8
SLU Statiche -	4	-26.33	33.80	-0.62	-862.4	28.5	1317.6
	3	25.89	34.44	0.58	805.0	134.9	-1416.0
SLU Statiche +	4	-25.89	33.81	-0.58	-805.0	30.2	1327.1
	3	26.33	34.45	0.62	862.4	142.6	-1407.9
SLV -	4	-35.71	24.15	-1.23	-1455.6	-95.6	652.3
	3	3.10	24.69	-0.41	-226.9	-22.2	-1295.4
SLV +	4	-3.10	27.81	0.41	226.9	136.7	1373.6
	3	35.71	28.35	1.23	1455.6	211.6	-882.6
SLE Rare -	4	-19.78	25.99	-0.46	-628.8	21.7	1015.5
	3	19.49	26.50	0.44	590.5	101.6	-1092.9
SLE Rare +	4	-19.49	26.00	-0.44	-590.5	22.9	1021.8
	3	19.78	26.51	0.46	628.8	106.7	-1087.5
SLE Frequenti -	4	-19.74	25.98	-0.42	-640.7	20.6	1011.1

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	3	19.28	26.52	0.41	599.0	94.7	-1091.2
SLE Frequenti +	4	-19.28	25.98	-0.41	-599.0	21.0	1015.5
	3	19.74	26.52	0.42	640.7	96.7	-1085.5
SLE Quasi Permanenti -	4	-19.40	25.98	-0.41	-614.4	20.6	1013.0
	3	19.40	26.52	0.41	614.4	94.7	-1089.0
SLE Quasi Permanenti +	4	-19.40	25.98	-0.41	-614.4	20.6	1013.0
	3	19.40	26.52	0.41	614.4	94.7	-1089.0
SLD -	4	-25.99	25.20	-0.76	-974.1	-29.0	859.5
	3	12.81	25.74	0.07	254.6	45.8	-1177.0
SLD +	4	-12.81	26.76	-0.07	-254.6	70.2	1166.5
	3	25.99	27.30	0.76	974.1	143.6	-1001.1
SLU Statiche -	9	13.30	13.22	-0.81	-1128.2	-75.9	382.9
	10	-13.40	18.28	0.77	1094.1	290.3	-1140.1
SLU Statiche +	9	13.40	13.57	-0.77	-1094.1	-75.3	397.6
	10	-13.30	18.63	0.81	1128.2	300.9	-1057.3
SLV -	9	-4.73	2.38	-2.55	-1973.9	-308.1	-1095.9
	10	-24.02	5.70	-1.46	-434.6	-105.5	-1752.2
SLV +	9	24.02	18.80	1.46	434.6	198.2	1725.0
	10	4.73	22.12	2.55	1973.9	518.3	193.1
SLE Rare -	9	9.95	10.19	-0.60	-841.0	-56.8	296.4
	10	-10.02	14.08	0.58	818.2	218.4	-873.0
SLE Rare +	9	10.02	10.42	-0.58	-818.2	-56.4	306.2
	10	-9.95	14.31	0.60	841.0	225.5	-817.8
SLE Frequenti -	9	9.63	10.50	-0.55	-782.6	-56.1	310.6
	10	-9.83	13.88	0.54	769.6	206.4	-801.6
SLE Frequenti +	9	9.83	10.62	-0.54	-769.6	-54.8	315.3
	10	-9.63	14.00	0.55	782.6	209.2	-771.1
SLE Quasi Permanenti -	9	9.65	10.59	-0.54	-769.6	-55.0	314.5
	10	-9.65	13.91	0.54	769.6	206.4	-779.5
SLE Quasi Permanenti +	9	9.65	10.59	-0.54	-769.6	-55.0	314.5
	10	-9.65	13.91	0.54	769.6	206.4	-779.5
SLD -	9	3.64	7.27	-1.35	-1257.5	-157.2	-262.5
	10	-15.65	10.59	-0.27	281.8	80.9	-1171.0
SLD +	9	15.65	13.91	0.27	-281.8	47.3	891.5
	10	-3.64	17.23	1.35	1257.5	331.9	-388.1
SLU Statiche -	10	10.22	16.16	0.02	21.5	-41.6	942.0
	11	-10.53	15.67	-0.02	-23.7	34.6	-977.9
SLU Statiche +	10	10.53	16.18	0.02	23.7	-40.8	1050.1
	11	-10.22	15.69	-0.02	-21.5	35.3	-876.8
SLV -	10	-19.66	9.05	-0.78	-1022.8	-168.8	-606.9
	11	-34.89	8.73	-0.81	-1053.5	-158.8	-1947.1
SLV +	10	34.89	15.77	0.81	1053.5	109.3	2023.2
	11	19.66	15.45	0.78	1022.8	209.4	620.3
SLE Rare -	10	7.61	12.43	0.02	16.4	-31.0	742.5
	11	-7.82	12.06	-0.02	-17.8	25.7	-760.5
SLE Rare +	10	7.82	12.44	0.02	17.8	-30.4	814.6
	11	-7.61	12.07	-0.02	-16.4	26.2	-693.1
SLE Frequenti -	10	7.53	12.41	0.02	15.3	-30.5	689.3
	11	-7.82	12.08	-0.02	-15.8	25.1	-690.4
SLE Frequenti +	10	7.82	12.42	0.02	15.8	-29.6	737.0
	11	-7.53	12.09	-0.02	-15.3	26.0	-644.6
SLE Quasi Permanenti -	10	7.61	12.41	0.02	15.3	-29.8	708.2
	11	-7.61	12.09	-0.02	-15.3	25.3	-663.4
SLE Quasi Permanenti +	10	7.61	12.41	0.02	15.3	-29.8	708.2

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	11	-7.61	12.09	-0.02	-15.3	25.3	-663.4
SLD -	10	-3.74	10.99	-0.32	-410.5	-88.1	158.3
	11	-18.97	10.67	-0.35	-441.2	-49.0	-1194.7
SLD +	10	18.97	13.83	0.35	441.2	28.5	1258.0
	11	3.74	13.51	0.32	410.5	99.6	-132.2
SLU Statiche -	11	10.26	17.73	0.75	1114.3	-267.0	934.6
	12	-10.63	13.85	-0.79	-1147.4	46.5	-429.6
SLU Statiche +	11	10.63	18.00	0.79	1147.4	-260.4	1002.5
	12	-10.26	14.12	-0.75	-1114.3	49.9	-420.8
SLV -	11	-6.28	7.62	-0.98	-83.1	-456.7	-165.7
	12	-21.89	5.04	-2.04	-1654.8	-134.1	-1574.0
SLV +	11	21.89	19.46	2.04	1654.8	83.8	1559.3
	12	6.28	16.88	0.98	83.1	208.4	904.7
SLE Rare -	11	7.68	13.66	0.57	833.8	-200.2	725.1
	12	-7.93	10.66	-0.59	-855.9	34.8	-330.3
SLE Rare +	11	7.93	13.84	0.59	855.9	-195.8	770.3
	12	-7.68	10.84	-0.57	-833.8	37.1	-324.4
SLE Frequenti -	11	7.71	13.51	0.53	785.9	-188.9	688.3
	12	-7.99	10.88	-0.54	-798.8	36.2	-335.4
SLE Frequenti +	11	7.99	13.62	0.54	798.8	-186.4	714.9
	12	-7.71	10.99	-0.53	-785.9	38.2	-332.3
SLE Quasi Permanenti -	11	7.80	13.54	0.53	785.9	-186.4	696.8
	12	-7.80	10.96	-0.53	-785.9	37.1	-334.7
SLE Quasi Permanenti +	11	7.80	13.54	0.53	785.9	-186.4	696.8
	12	-7.80	10.96	-0.53	-785.9	37.1	-334.7
SLD -	11	1.96	11.01	-0.10	414.8	-299.6	336.0
	12	-13.65	8.42	-1.17	-1157.0	-36.1	-862.4
SLD +	11	13.65	16.08	1.17	1157.0	-73.3	1057.6
	12	-1.96	13.49	0.10	-414.8	110.4	193.0
SLU Statiche -	1	-59.00	31.16	-2.34	95.3	302.2	873.8
	5	58.36	4.13	2.24	-192.5	27.9	1071.4
SLU Statiche +	1	-58.36	31.83	-2.24	192.5	307.1	942.4
	5	59.00	4.79	2.34	-95.3	37.8	1100.2
SLV -	1	-59.79	21.74	-4.32	-1081.1	22.9	232.3
	5	24.42	3.03	-1.12	-1208.7	-207.1	498.0
SLV +	1	-24.42	24.63	1.12	1208.7	413.4	1025.5
	5	59.79	5.92	4.32	1081.1	242.2	1004.2
SLE Rare -	1	-44.25	23.78	-1.76	91.7	227.4	669.3
	5	43.83	3.43	1.69	-156.5	22.1	799.1
SLE Rare +	1	-43.83	24.22	-1.69	156.5	230.6	715.0
	5	44.25	3.87	1.76	-91.7	28.6	818.3
SLE Frequenti -	1	-42.76	23.18	-1.62	45.3	218.1	626.2
	5	42.11	4.30	1.60	-89.7	16.5	751.1
SLE Frequenti +	1	-42.11	23.36	-1.60	89.7	221.1	647.2
	5	42.76	4.47	1.62	-45.3	20.2	765.5
SLE Quasi Permanenti -	1	-42.11	23.18	-1.60	63.8	218.1	628.9
	5	42.11	4.47	1.60	-63.8	17.6	751.1
SLE Quasi Permanenti +	1	-42.11	23.18	-1.60	63.8	218.1	628.9
	5	42.11	4.47	1.60	-63.8	17.6	751.1
SLD -	1	-49.40	22.57	-2.69	-397.2	139.0	465.4
	5	34.82	3.86	0.50	-524.7	-73.1	645.2
SLD +	1	-34.82	23.79	-0.50	524.7	297.2	792.3
	5	49.40	5.08	2.69	397.2	108.3	857.0

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLU Statiche -	5	-76.17	4.55	2.33	508.7	62.2	-2027.7
	9	72.43	31.09	-2.41	-557.2	-425.7	-14.1
SLU Statiche +	5	-72.43	4.86	2.41	557.2	69.5	-1920.6
	9	76.17	31.40	-2.33	-508.7	-406.6	47.4
SLV -	5	-66.67	-2.79	-1.41	-562.3	-147.7	-2032.0
	9	35.39	16.01	-4.76	-1265.1	-562.4	-521.0
SLV +	5	-35.39	11.64	4.76	1265.1	228.7	-627.9
	9	66.67	30.44	1.41	562.3	-13.4	407.8
SLE Rare -	5	-57.04	3.76	1.76	385.2	46.3	-1509.6
	9	54.55	23.69	-1.82	-417.5	-319.1	-16.5
SLE Rare +	5	-54.55	3.97	1.82	417.5	51.2	-1438.2
	9	57.04	23.90	-1.76	-385.2	-306.4	24.6
SLE Frequenti -	5	-52.03	4.30	1.68	351.4	40.5	-1358.6
	9	51.03	23.23	-1.70	-364.4	-293.0	-57.0
SLE Frequenti +	5	-51.03	4.43	1.70	364.4	42.5	-1330.0
	9	52.03	23.36	-1.68	-351.4	-287.9	-40.2
SLE Quasi Permanenti -	5	-51.03	4.43	1.68	351.4	40.5	-1330.0
	9	51.03	23.23	-1.68	-351.4	-287.9	-56.6
SLE Quasi Permanenti +	5	-51.03	4.43	1.68	351.4	40.5	-1330.0
	9	51.03	23.23	-1.68	-351.4	-287.9	-56.6
SLD -	5	-57.34	1.50	0.44	-16.7	-35.2	-1612.5
	9	44.72	20.30	-2.92	-719.5	-401.9	-253.5
SLD +	5	-44.72	7.36	2.92	719.5	116.3	-1047.5
	9	57.34	26.16	-0.44	16.7	-173.9	140.3
SLU Statiche -	2	7.48	21.28	2.09	-374.1	-200.6	-1644.4
	6	-7.56	-4.60	-2.19	307.2	-122.6	3542.3
SLU Statiche +	2	7.56	21.38	2.19	-307.2	-191.9	-1625.7
	6	-7.48	-4.50	-2.09	374.1	-116.8	3545.8
SLV -	2	4.70	12.33	-1.70	-1934.4	-415.8	-2854.0
	6	-6.24	-5.95	-4.68	-1397.3	-274.8	1286.7
SLV +	2	6.24	18.86	4.68	1397.3	143.2	527.6
	6	-4.70	0.57	1.70	1934.4	108.2	3736.6
SLE Rare -	2	5.60	15.98	1.58	-263.9	-150.5	-1229.3
	6	-5.65	-3.15	-1.65	219.3	-92.2	2633.0
SLE Rare +	2	5.65	16.05	1.65	-219.3	-144.7	-1216.9
	6	-5.60	-3.08	-1.58	263.9	-88.3	2635.3
SLE Frequenti -	2	5.45	15.57	1.49	-288.5	-138.6	-1183.8
	6	-5.58	-2.95	-1.51	250.7	-84.8	2511.7
SLE Frequenti +	2	5.58	15.86	1.51	-250.7	-136.3	-1163.2
	6	-5.45	-2.66	-1.49	288.5	-83.3	2571.2
SLE Quasi Permanenti -	2	5.47	15.60	1.49	-268.5	-136.3	-1163.2
	6	-5.47	-2.69	-1.49	268.5	-83.3	2511.7
SLE Quasi Permanenti +	2	5.47	15.60	1.49	-268.5	-136.3	-1163.2
	6	-5.47	-2.69	-1.49	268.5	-83.3	2511.7
SLD -	2	5.16	14.23	0.20	-942.9	-249.1	-1866.8
	6	-5.79	-4.05	-2.78	-405.9	-160.7	2002.7
SLD +	2	5.79	16.96	2.78	405.9	-23.5	-459.5
	6	-5.16	-1.33	-0.20	942.9	-5.9	3020.6
SLU Statiche -	6	7.38	-4.38	-1.11	559.5	39.7	-3622.2
	10	-7.58	21.11	1.10	-590.2	119.9	1729.6
SLU Statiche +	6	7.58	-4.34	-1.10	590.2	43.4	-3612.3
	10	-7.38	21.15	1.11	-559.5	121.9	1745.3
SLV -	6	-0.06	-5.17	-3.88	-721.7	-205.6	-3477.9
	10	-10.54	12.85	-2.25	-1504.3	-126.9	-100.3

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLV +	6	10.54	0.06	2.25	1504.3	273.0	-1609.3
	10	0.06	18.08	3.88	721.7	300.3	2529.8
SLE Rare -	6	5.53	-3.03	-0.83	420.5	30.2	-2678.5
	10	-5.66	15.91	0.83	-440.9	90.3	1272.8
SLE Rare +	6	5.66	-3.01	-0.83	440.9	32.6	-2671.9
	10	-5.53	15.94	0.83	-420.5	91.6	1283.3
SLE Frequenti -	6	5.24	-2.77	-0.83	391.3	32.7	-2614.3
	10	-5.32	15.46	0.81	-399.4	86.7	1210.5
SLE Frequenti +	6	5.32	-2.56	-0.81	399.4	34.4	-2541.0
	10	-5.24	15.67	0.83	-391.3	87.8	1254.3
SLE Quasi Permanenti -	6	5.24	-2.56	-0.82	391.3	33.7	-2543.6
	10	-5.24	15.46	0.82	-391.3	86.7	1214.7
SLE Quasi Permanenti +	6	5.24	-2.56	-0.82	391.3	33.7	-2543.6
	10	-5.24	15.46	0.82	-391.3	86.7	1214.7
SLD -	6	3.11	-3.64	-2.05	-59.4	-62.9	-2933.2
	10	-7.38	14.38	-0.42	-842.0	0.3	666.9
SLD +	6	7.38	-1.47	0.42	842.0	130.2	-2154.0
	10	-3.11	16.55	2.05	59.4	173.0	1762.5
SLU Statiche -	3	9.02	21.01	-2.37	300.4	206.1	-1715.7
	7	-9.11	-4.37	2.25	-363.0	126.1	3572.3
SLU Statiche +	3	9.11	21.15	-2.25	363.0	216.8	-1690.0
	7	-9.02	-4.23	2.37	-300.4	133.0	3576.8
SLV -	3	5.73	12.28	-4.34	-931.9	-96.9	-2893.4
	7	-7.21	-5.71	-1.15	-1445.8	-73.3	1297.9
SLV +	3	7.21	18.62	1.15	1445.8	388.4	479.4
	7	-5.73	0.63	4.34	931.9	252.4	3769.5
SLE Rare -	3	6.76	15.78	-1.78	213.3	155.5	-1282.7
	7	-6.81	-2.97	1.70	-255.0	95.4	2655.8
SLE Rare +	3	6.81	15.88	-1.70	255.0	162.5	-1265.5
	7	-6.76	-2.88	1.78	-213.3	100.0	2658.8
SLE Frequenti -	3	6.47	15.41	-1.63	240.2	145.7	-1227.7
	7	-6.58	-2.81	1.60	-276.9	89.6	2533.7
SLE Frequenti +	3	6.58	15.71	-1.60	276.9	148.6	-1207.0
	7	-6.47	-2.50	1.63	-240.2	91.4	2593.3
SLE Quasi Permanenti -	3	6.47	15.45	-1.60	256.9	145.7	-1207.0
	7	-6.47	-2.54	1.60	-256.9	89.6	2533.7
SLE Quasi Permanenti +	3	6.47	15.45	-1.60	256.9	145.7	-1207.0
	7	-6.47	-2.54	1.60	-256.9	89.6	2533.7
SLD -	3	6.17	14.13	-2.75	-253.7	44.0	-1909.2
	7	-6.77	-3.86	0.44	-767.6	21.3	2018.2
SLD +	3	6.77	16.76	-0.44	767.6	247.4	-504.8
	7	-6.17	-1.23	2.75	253.7	157.9	3049.1
SLU Statiche -	7	7.36	-4.35	0.68	-595.2	-22.5	-3576.1
	11	-7.55	21.10	-0.73	566.1	-85.9	1678.5
SLU Statiche +	7	7.55	-4.32	0.73	-566.1	-16.5	-3557.1
	11	-7.36	21.13	-0.68	595.2	-83.4	1700.9
SLV -	7	0.85	-5.18	-1.91	-1188.4	-203.9	-3439.1
	11	-9.62	12.84	-3.04	-393.4	-244.5	-119.1
SLV +	7	9.62	0.06	3.04	393.4	165.2	-1590.9
	11	-0.85	18.09	1.91	1188.4	116.7	2490.5
SLE Rare -	7	5.52	-3.01	0.51	-445.2	-16.8	-2643.9
	11	-5.64	15.90	-0.55	425.7	-64.5	1234.9
SLE Rare +	7	5.64	-3.00	0.55	-425.7	-12.8	-2631.2
	11	-5.52	15.92	-0.51	445.2	-62.9	1249.9

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLE Frequenti -	7	5.24	-2.77	0.55	-405.3	-20.1	-2585.8
	11	-5.32	15.47	-0.58	397.5	-65.1	1179.7
SLE Frequenti +	7	5.32	-2.56	0.58	-397.5	-17.7	-2509.9
	11	-5.24	15.68	-0.55	405.3	-63.3	1225.3
SLE Quasi Permanenti -	7	5.24	-2.56	0.56	-397.5	-19.4	-2515.0
	11	-5.24	15.47	-0.56	397.5	-63.9	1185.7
SLE Quasi Permanenti +	7	5.24	-2.56	0.56	-397.5	-19.4	-2515.0
	11	-5.24	15.47	-0.56	397.5	-63.9	1185.7
SLD -	7	3.40	-3.65	-0.47	-735.6	-96.8	-2899.2
	11	-7.07	14.37	-1.60	59.4	-139.7	642.8
SLD +	7	7.07	-1.47	1.60	-59.4	58.1	-2130.8
	11	-3.40	16.56	0.47	735.6	11.8	1728.6
SLU Statiche -	4	-53.30	29.65	2.54	-51.2	-306.6	770.9
	8	53.24	5.84	-2.67	-31.5	-86.8	951.3
SLU Statiche +	4	-53.24	30.12	2.67	31.5	-302.3	823.9
	8	53.30	6.30	-2.54	51.2	-72.6	966.6
SLV -	4	-54.31	20.76	-0.53	-866.2	-401.2	194.2
	8	22.90	4.07	-4.15	-910.7	-223.1	425.7
SLV +	4	-22.90	23.59	4.15	910.7	-35.7	929.2
	8	54.31	6.90	0.53	866.2	126.2	912.4
SLE Rare -	4	-39.99	22.64	1.92	-51.0	-230.3	591.7
	8	39.95	4.71	-2.01	-4.2	-65.4	708.0
SLE Rare +	4	-39.95	22.95	2.01	4.2	-227.4	627.0
	8	39.99	5.02	-1.92	51.0	-55.9	718.3
SLE Frequenti -	4	-39.25	22.17	1.81	0.2	-221.5	559.0
	8	38.61	5.36	-1.84	-40.8	-52.3	669.0
SLE Frequenti +	4	-38.61	22.30	1.84	40.8	-218.5	575.8
	8	39.25	5.48	-1.81	-0.2	-47.4	683.4
SLE Quasi Permanenti -	4	-38.61	22.17	1.81	22.3	-218.5	561.7
	8	38.61	5.48	-1.81	-22.3	-48.4	669.0
SLE Quasi Permanenti +	4	-38.61	22.17	1.81	22.3	-218.5	561.7
	8	38.61	5.48	-1.81	-22.3	-48.4	669.0
SLD -	4	-45.17	21.57	0.83	-350.0	-295.1	405.7
	8	32.04	4.89	-2.79	-394.5	-121.5	567.5
SLD +	4	-32.04	22.77	2.79	394.5	-141.8	717.7
	8	45.17	6.08	-0.83	350.0	24.6	770.6
SLU Statiche -	8	-66.82	5.88	-1.87	-588.1	-82.1	-1744.9
	12	64.19	29.89	1.85	541.4	345.3	-87.0
SLU Statiche +	8	-64.19	6.06	-1.85	-541.4	-72.7	-1670.5
	12	66.82	30.07	1.87	588.1	356.0	-38.8
SLV -	8	-61.13	-1.23	-4.20	-1072.0	-188.1	-1803.3
	12	29.95	15.93	-1.49	-316.7	-34.7	-541.9
SLV +	8	-29.95	11.73	1.49	316.7	93.9	-522.4
	12	61.13	28.89	4.20	1072.0	529.1	336.9
SLE Rare -	8	-50.07	4.76	-1.41	-441.6	-60.6	-1298.7
	12	48.32	22.78	1.40	410.4	260.1	-71.2
SLE Rare +	8	-48.32	4.88	-1.40	-410.4	-54.3	-1249.1
	12	50.07	22.90	1.41	441.6	267.2	-39.1
SLE Frequenti -	8	-46.24	5.12	-1.37	-390.1	-49.6	-1182.7
	12	45.54	22.41	1.36	377.6	247.2	-103.0
SLE Frequenti +	8	-45.54	5.25	-1.36	-377.6	-47.1	-1162.8
	12	46.24	22.53	1.37	390.1	250.1	-89.7
SLE Quasi Permanenti -	8	-45.54	5.25	-1.36	-377.6	-47.1	-1162.8
	12	45.54	22.41	1.36	377.6	247.2	-102.5

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLE Quasi Permanenti +	8	-45.54	5.25	-1.36	-377.6	-47.1	-1162.8
	12	45.54	22.41	1.36	377.6	247.2	-102.5
SLD -	8	-52.07	2.54	-2.55	-668.4	-106.2	-1430.7
	12	39.01	19.70	0.17	86.9	129.3	-289.0
SLD +	8	-39.01	7.95	-0.17	-86.9	12.0	-895.0
	12	52.07	25.11	2.55	668.4	365.1	84.0
SLU Statiche -	101	0.00	0.12	0.00	41.0	0.0	145.0
	113	0.00	-0.13	0.00	-47.9	0.0	-135.1
SLU Statiche +	101	0.00	0.13	0.00	47.9	0.0	159.6
	113	0.00	-0.12	0.00	-41.0	0.0	-122.7
SLV -	101	0.00	0.08	0.00	20.6	0.0	100.6
	113	0.00	-0.09	0.00	-31.9	0.0	-93.1
SLV +	101	0.00	0.09	0.00	31.9	0.0	108.9
	113	0.00	-0.08	0.00	-20.6	0.0	-85.1
SLE Rare -	101	0.00	0.09	0.00	30.9	0.0	110.7
	113	0.00	-0.10	0.00	-35.5	0.0	-101.9
SLE Rare +	101	0.00	0.10	0.00	35.5	0.0	120.4
	113	0.00	-0.09	0.00	-30.9	0.0	-93.7
SLE Frequenti -	101	0.00	0.08	0.00	26.3	0.0	104.7
	113	0.00	-0.09	0.00	-28.1	0.0	-90.9
SLE Frequenti +	101	0.00	0.09	0.00	28.1	0.0	107.1
	113	0.00	-0.08	0.00	-26.3	0.0	-89.1
SLE Quasi Permanenti -	101	0.00	0.08	0.00	26.3	0.0	104.7
	113	0.00	-0.08	0.00	-26.3	0.0	-89.1
SLE Quasi Permanenti +	101	0.00	0.08	0.00	26.3	0.0	104.7
	113	0.00	-0.08	0.00	-26.3	0.0	-89.1
SLD -	101	0.00	0.08	0.00	23.9	0.0	103.0
	113	0.00	-0.09	0.00	-28.6	0.0	-90.8
SLD +	101	0.00	0.09	0.00	28.6	0.0	106.5
	113	0.00	-0.08	0.00	-23.9	0.0	-87.4
SLU Statiche -	101	0.00	0.01	0.00	136.0	0.0	1.2
	102	0.00	-0.01	0.00	-154.8	0.0	2.3
SLU Statiche +	101	0.00	0.01	0.00	154.8	0.0	1.5
	102	0.00	-0.01	0.00	-136.0	0.0	2.9
SLV -	101	0.00	-0.06	0.00	51.5	0.0	-5.4
	102	0.00	-0.08	0.00	-130.3	0.0	-11.9
SLV +	101	0.00	0.08	0.00	130.3	0.0	7.3
	102	0.00	0.06	0.00	-51.5	0.0	14.6
SLE Rare -	101	0.00	0.01	0.00	103.0	0.0	0.9
	102	0.00	-0.01	0.00	-115.6	0.0	1.7
SLE Rare +	101	0.00	0.01	0.00	115.6	0.0	1.1
	102	0.00	-0.01	0.00	-103.0	0.0	2.1
SLE Frequenti -	101	0.00	0.01	0.00	90.7	0.0	0.9
	102	0.00	-0.01	0.00	-95.9	0.0	1.4
SLE Frequenti +	101	0.00	0.01	0.00	95.9	0.0	1.0
	102	0.00	-0.01	0.00	-90.7	0.0	1.5
SLE Quasi Permanenti -	101	0.00	0.01	0.00	90.9	0.0	1.0
	102	0.00	-0.01	0.00	-90.9	0.0	1.4
SLE Quasi Permanenti +	101	0.00	0.01	0.00	90.9	0.0	1.0
	102	0.00	-0.01	0.00	-90.9	0.0	1.4
SLD -	101	0.00	-0.02	0.00	74.7	0.0	-1.7
	102	0.00	-0.04	0.00	-107.1	0.0	-4.0
SLD +	101	0.00	0.04	0.00	107.1	0.0	3.7
	102	0.00	0.02	0.00	-74.7	0.0	6.7

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLU Statiche -	102	0.00	0.01	0.00	2.4	0.0	-3.0
	103	0.00	-0.01	0.00	-2.6	0.0	5.3
SLU Statiche +	102	0.00	0.01	0.00	2.6	0.0	-2.9
	103	0.00	-0.01	0.00	-2.4	0.0	5.7
SLV -	102	0.00	-0.04	0.00	-45.1	0.0	-8.8
	103	0.00	-0.05	0.00	-48.6	0.0	-2.9
SLV +	102	0.00	0.05	0.00	48.6	0.0	4.7
	103	0.00	0.04	0.00	45.1	0.0	10.4
SLE Rare -	102	0.00	0.01	0.00	1.8	0.0	-2.3
	103	0.00	-0.01	0.00	-2.0	0.0	4.0
SLE Rare +	102	0.00	0.01	0.00	2.0	0.0	-2.2
	103	0.00	-0.01	0.00	-1.8	0.0	4.2
SLE Frequenti -	102	0.00	0.01	0.00	1.7	0.0	-2.1
	103	0.00	-0.01	0.00	-1.8	0.0	3.7
SLE Frequenti +	102	0.00	0.01	0.00	1.8	0.0	-2.1
	103	0.00	-0.01	0.00	-1.7	0.0	3.8
SLE Quasi Permanenti -	102	0.00	0.01	0.00	1.7	0.0	-2.1
	103	0.00	-0.01	0.00	-1.7	0.0	3.7
SLE Quasi Permanenti +	102	0.00	0.01	0.00	1.7	0.0	-2.1
	103	0.00	-0.01	0.00	-1.7	0.0	3.7
SLD -	102	0.00	-0.01	0.00	-17.5	0.0	-4.9
	103	0.00	-0.03	0.00	-21.0	0.0	0.9
SLD +	102	0.00	0.03	0.00	21.0	0.0	0.8
	103	0.00	0.01	0.00	17.5	0.0	6.6
SLU Statiche -	103	0.00	-0.00	0.00	-160.3	0.0	-3.5
	104	0.00	0.00	0.00	140.8	0.0	2.0
SLU Statiche +	103	0.00	-0.00	0.00	-140.8	0.0	-2.9
	104	0.00	0.00	0.00	160.3	0.0	2.4
SLV -	103	0.00	-0.06	0.00	-135.6	0.0	-13.0
	104	0.00	-0.06	0.00	52.5	0.0	-4.7
SLV +	103	0.00	0.06	0.00	-52.5	0.0	9.3
	104	0.00	0.06	0.00	135.6	0.0	7.5
SLE Rare -	103	0.00	-0.00	0.00	-119.7	0.0	-2.6
	104	0.00	0.00	0.00	106.6	0.0	1.6
SLE Rare +	103	0.00	-0.00	0.00	-106.6	0.0	-2.2
	104	0.00	0.00	0.00	119.7	0.0	1.8
SLE Frequenti -	103	0.00	-0.00	0.00	-99.2	0.0	-2.0
	104	0.00	0.00	0.00	93.8	0.0	1.4
SLE Frequenti +	103	0.00	-0.00	0.00	-93.8	0.0	-1.8
	104	0.00	0.00	0.00	99.2	0.0	1.5
SLE Quasi Permanenti -	103	0.00	-0.00	0.00	-94.0	0.0	-1.8
	104	0.00	0.00	0.00	94.0	0.0	1.4
SLE Quasi Permanenti +	103	0.00	-0.00	0.00	-94.0	0.0	-1.8
	104	0.00	0.00	0.00	94.0	0.0	1.4
SLD -	103	0.00	-0.03	0.00	-111.1	0.0	-6.5
	104	0.00	-0.02	0.00	77.0	0.0	-1.2
SLD +	103	0.00	0.02	0.00	-77.0	0.0	2.8
	104	0.00	0.03	0.00	111.1	0.0	4.0
SLU Statiche -	116	0.00	1.43	0.00	139.2	0.0	528.6
	117	0.00	2.33	0.00	-158.9	0.0	-708.0
SLU Statiche +	116	0.00	2.08	0.00	158.9	0.0	613.5
	117	0.00	3.10	0.00	-139.2	0.0	-609.3
SLV -	116	0.00	0.59	0.00	86.8	0.0	331.8

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	117	0.00	1.15	0.00	-97.5	0.0	-410.9
SLV +	116	0.00	0.70	0.00	97.5	0.0	352.2
	117	0.00	1.26	0.00	-86.8	0.0	-375.8
SLE Rare -	116	0.00	1.04	0.00	105.2	0.0	398.2
	117	0.00	1.72	0.00	-118.3	0.0	-524.6
SLE Rare +	116	0.00	1.47	0.00	118.3	0.0	454.8
	117	0.00	2.23	0.00	-105.2	0.0	-458.8
SLE Frequenti -	116	0.00	0.65	0.00	92.1	0.0	341.8
	117	0.00	1.20	0.00	-97.4	0.0	-419.6
SLE Frequenti +	116	0.00	0.81	0.00	97.4	0.0	364.7
	117	0.00	1.41	0.00	-92.1	0.0	-393.2
SLE Quasi Permanenti -	116	0.00	0.65	0.00	92.1	0.0	342.0
	117	0.00	1.20	0.00	-92.1	0.0	-393.3
SLE Quasi Permanenti +	116	0.00	0.65	0.00	92.1	0.0	342.0
	117	0.00	1.20	0.00	-92.1	0.0	-393.3
SLD -	116	0.00	0.63	0.00	89.9	0.0	337.6
	117	0.00	1.18	0.00	-94.4	0.0	-400.6
SLD +	116	0.00	0.67	0.00	94.4	0.0	346.4
	117	0.00	1.22	0.00	-89.9	0.0	-386.1
SLU Statiche -	118	0.00	2.26	0.00	193.7	0.0	255.4
	117	0.00	3.44	0.00	-223.9	0.0	-500.6
SLU Statiche +	118	0.00	3.26	0.00	223.9	0.0	317.0
	117	0.00	4.58	0.00	-193.7	0.0	-415.3
SLV -	118	0.00	1.00	0.00	87.1	0.0	63.3
	117	0.00	1.75	0.00	-164.7	0.0	-345.3
SLV +	118	0.00	1.05	0.00	164.7	0.0	234.1
	117	0.00	1.80	0.00	-87.1	0.0	-161.7
SLE Rare -	118	0.00	1.64	0.00	146.0	0.0	190.0
	117	0.00	2.53	0.00	-166.1	0.0	-367.5
SLE Rare +	118	0.00	2.31	0.00	166.1	0.0	231.1
	117	0.00	3.29	0.00	-146.0	0.0	-310.6
SLE Frequenti -	118	0.00	1.03	0.00	125.9	0.0	148.7
	117	0.00	1.77	0.00	-134.0	0.0	-276.3
SLE Frequenti +	118	0.00	1.28	0.00	134.0	0.0	165.1
	117	0.00	2.08	0.00	-125.9	0.0	-253.5
SLE Quasi Permanenti -	118	0.00	1.03	0.00	125.9	0.0	148.7
	117	0.00	1.77	0.00	-125.9	0.0	-253.5
SLE Quasi Permanenti +	118	0.00	1.03	0.00	125.9	0.0	148.7
	117	0.00	1.77	0.00	-125.9	0.0	-253.5
SLD -	118	0.00	1.02	0.00	110.0	0.0	113.7
	117	0.00	1.76	0.00	-141.8	0.0	-291.1
SLD +	118	0.00	1.04	0.00	141.8	0.0	183.7
	117	0.00	1.78	0.00	-110.0	0.0	-215.9
SLU Statiche -	119	0.00	2.87	0.00	40.8	0.0	-719.5
	118	0.00	2.86	0.00	-47.2	0.0	659.2
SLU Statiche +	119	0.00	3.93	0.00	47.2	0.0	-657.7
	118	0.00	3.91	0.00	-40.8	0.0	721.6
SLV -	119	0.00	1.31	0.00	-22.8	0.0	-473.1
	118	0.00	1.30	0.00	-75.8	0.0	445.1
SLV +	119	0.00	1.50	0.00	75.8	0.0	-444.8
	118	0.00	1.49	0.00	22.8	0.0	473.9
SLE Rare -	119	0.00	2.10	0.00	30.8	0.0	-541.0
	118	0.00	2.10	0.00	-35.0	0.0	500.9
SLE Rare +	119	0.00	2.81	0.00	35.0	0.0	-499.8

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	118	0.00	2.79	0.00	-30.8	0.0	542.5
SLE Frequenti -	119	0.00	1.40	0.00	26.5	0.0	-475.4
	118	0.00	1.40	0.00	-28.2	0.0	459.4
SLE Frequenti +	119	0.00	1.68	0.00	28.2	0.0	-458.8
	118	0.00	1.68	0.00	-26.5	0.0	476.2
SLE Quasi Permanenti -	119	0.00	1.40	0.00	26.5	0.0	-458.9
	118	0.00	1.40	0.00	-26.5	0.0	459.5
SLE Quasi Permanenti +	119	0.00	1.40	0.00	26.5	0.0	-458.9
	118	0.00	1.40	0.00	-26.5	0.0	459.5
SLD -	119	0.00	1.36	0.00	6.3	0.0	-464.9
	118	0.00	1.36	0.00	-46.8	0.0	453.7
SLD +	119	0.00	1.44	0.00	46.8	0.0	-452.9
	118	0.00	1.44	0.00	-6.3	0.0	465.4
SLU Statiche -	120	0.00	3.23	0.00	-258.1	0.0	19.6
	119	0.00	2.48	0.00	222.6	0.0	59.4
SLU Statiche +	120	0.00	4.34	0.00	-222.6	0.0	56.9
	119	0.00	3.50	0.00	258.1	0.0	90.0
SLV -	120	0.00	1.63	0.00	-182.1	0.0	-78.3
	119	0.00	1.15	0.00	106.1	0.0	-2.8
SLV +	120	0.00	1.65	0.00	-106.1	0.0	73.1
	119	0.00	1.17	0.00	182.1	0.0	142.8
SLE Rare -	120	0.00	2.37	0.00	-191.4	0.0	12.5
	119	0.00	1.81	0.00	167.7	0.0	49.2
SLE Rare +	120	0.00	3.11	0.00	-167.7	0.0	37.4
	119	0.00	2.49	0.00	191.4	0.0	69.6
SLE Frequenti -	120	0.00	1.64	0.00	-153.6	0.0	-2.6
	119	0.00	1.16	0.00	144.1	0.0	65.9
SLE Frequenti +	120	0.00	1.93	0.00	-144.1	0.0	5.3
	119	0.00	1.43	0.00	153.6	0.0	70.0
SLE Quasi Permanenti -	120	0.00	1.64	0.00	-144.1	0.0	-2.6
	119	0.00	1.16	0.00	144.1	0.0	70.0
SLE Quasi Permanenti +	120	0.00	1.64	0.00	-144.1	0.0	-2.6
	119	0.00	1.16	0.00	144.1	0.0	70.0
SLD -	120	0.00	1.64	0.00	-159.7	0.0	-33.8
	119	0.00	1.15	0.00	128.5	0.0	40.0
SLD +	120	0.00	1.65	0.00	-128.5	0.0	28.6
	119	0.00	1.16	0.00	159.7	0.0	100.0
SLU Statiche -	113	0.00	0.07	0.00	-4.8	0.0	-49.0
	114	0.00	-0.08	0.00	3.4	0.0	54.6
SLU Statiche +	113	0.00	0.08	0.00	-3.4	0.0	-44.1
	114	0.00	-0.07	0.00	4.8	0.0	60.5
SLV -	113	0.00	-0.05	0.00	-4.7	0.0	-41.5
	114	0.00	-0.14	0.00	-0.5	0.0	33.2
SLV +	113	0.00	0.14	0.00	0.5	0.0	-19.6
	114	0.00	0.05	0.00	4.7	0.0	42.0
SLE Rare -	113	0.00	0.05	0.00	-3.7	0.0	-36.8
	114	0.00	-0.06	0.00	2.7	0.0	41.5
SLE Rare +	113	0.00	0.06	0.00	-2.7	0.0	-33.6
	114	0.00	-0.05	0.00	3.7	0.0	45.5
SLE Frequenti -	113	0.00	0.05	0.00	-2.5	0.0	-31.8
	114	0.00	-0.05	0.00	1.9	0.0	37.5
SLE Frequenti +	113	0.00	0.05	0.00	-1.9	0.0	-30.4
	114	0.00	-0.05	0.00	2.5	0.0	39.2
SLE Quasi Permanenti -	113	0.00	0.05	0.00	-2.1	0.0	-30.5

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	114	0.00	-0.05	0.00	2.1	0.0	37.6
SLE Quasi Permanenti +	113	0.00	0.05	0.00	-2.1	0.0	-30.5
	114	0.00	-0.05	0.00	2.1	0.0	37.6
SLD -	113	0.00	0.01	0.00	-3.2	0.0	-34.9
	114	0.00	-0.09	0.00	1.0	0.0	35.8
SLD +	113	0.00	0.09	0.00	-1.0	0.0	-26.1
	114	0.00	-0.01	0.00	3.2	0.0	39.4
SLU Statiche -	114	0.00	-0.13	0.00	7.0	0.0	-37.6
	115	0.00	0.11	0.00	-12.4	0.0	16.6
SLU Statiche +	114	0.00	-0.11	0.00	12.4	0.0	-33.7
	115	0.00	0.13	0.00	-7.0	0.0	20.0
SLV -	114	0.00	-0.12	0.00	-4.5	0.0	-30.9
	115	0.00	0.03	0.00	-8.3	0.0	12.8
SLV +	114	0.00	-0.03	0.00	8.3	0.0	-19.1
	115	0.00	0.12	0.00	4.5	0.0	15.9
SLE Rare -	114	0.00	-0.09	0.00	5.1	0.0	-28.4
	115	0.00	0.08	0.00	-8.7	0.0	13.0
SLE Rare +	114	0.00	-0.08	0.00	8.7	0.0	-25.9
	115	0.00	0.09	0.00	-5.1	0.0	15.3
SLE Frequenti -	114	0.00	-0.08	0.00	1.7	0.0	-25.4
	115	0.00	0.07	0.00	-3.3	0.0	14.1
SLE Frequenti +	114	0.00	-0.07	0.00	3.3	0.0	-24.9
	115	0.00	0.08	0.00	-1.7	0.0	14.3
SLE Quasi Permanenti -	114	0.00	-0.07	0.00	1.9	0.0	-25.0
	115	0.00	0.07	0.00	-1.9	0.0	14.3
SLE Quasi Permanenti +	114	0.00	-0.07	0.00	1.9	0.0	-25.0
	115	0.00	0.07	0.00	-1.9	0.0	14.3
SLD -	114	0.00	-0.09	0.00	-0.7	0.0	-27.4
	115	0.00	0.05	0.00	-4.5	0.0	13.7
SLD +	114	0.00	-0.05	0.00	4.5	0.0	-22.6
	115	0.00	0.09	0.00	0.7	0.0	15.0
SLU Statiche -	115	0.00	-1.84	0.00	-14.3	0.0	-76.6
	116	0.00	1.61	0.00	11.0	0.0	-15.2
SLU Statiche +	115	0.00	-1.61	0.00	-11.0	0.0	-67.6
	116	0.00	1.84	0.00	14.3	0.0	-13.0
SLV -	115	0.00	-1.19	0.00	-35.6	0.0	-57.5
	116	0.00	0.94	0.00	-16.0	0.0	-15.2
SLV +	115	0.00	-0.94	0.00	16.0	0.0	-31.9
	116	0.00	1.19	0.00	35.6	0.0	-1.9
SLE Rare -	115	0.00	-1.37	0.00	-11.1	0.0	-57.0
	116	0.00	1.22	0.00	8.9	0.0	-11.3
SLE Rare +	115	0.00	-1.22	0.00	-8.9	0.0	-50.9
	116	0.00	1.37	0.00	11.1	0.0	-9.9
SLE Frequenti -	115	0.00	-1.13	0.00	-9.8	0.0	-47.1
	116	0.00	1.07	0.00	9.6	0.0	-9.2
SLE Frequenti +	115	0.00	-1.07	0.00	-9.6	0.0	-44.7
	116	0.00	1.13	0.00	9.8	0.0	-8.5
SLE Quasi Permanenti -	115	0.00	-1.07	0.00	-9.8	0.0	-44.7
	116	0.00	1.07	0.00	9.8	0.0	-8.6
SLE Quasi Permanenti +	115	0.00	-1.07	0.00	-9.8	0.0	-44.7
	116	0.00	1.07	0.00	9.8	0.0	-8.6
SLD -	115	0.00	-1.12	0.00	-20.3	0.0	-49.8
	116	0.00	1.01	0.00	-0.6	0.0	-11.3
SLD +	115	0.00	-1.01	0.00	0.6	0.0	-39.5

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	116	0.00	1.12	0.00	20.3	0.0	-5.9
SLU Statiche -	105	0.00	0.20	0.00	-109.8	0.0	3.7
	101	0.00	-0.22	0.00	95.8	0.0	25.5
SLU Statiche +	105	0.00	0.22	0.00	-95.8	0.0	4.3
	101	0.00	-0.20	0.00	109.8	0.0	28.7
SLV -	105	0.00	-0.07	0.00	-66.9	0.0	-0.7
	101	0.00	-0.33	0.00	58.2	0.0	-11.2
SLV +	105	0.00	0.33	0.00	-58.2	0.0	5.3
	101	0.00	0.07	0.00	66.9	0.0	45.0
SLE Rare -	105	0.00	0.15	0.00	-81.5	0.0	2.7
	101	0.00	-0.17	0.00	72.1	0.0	19.2
SLE Rare +	105	0.00	0.17	0.00	-72.1	0.0	3.1
	101	0.00	-0.15	0.00	81.5	0.0	21.4
SLE Frequenti -	105	0.00	0.13	0.00	-66.3	0.0	2.3
	101	0.00	-0.14	0.00	62.5	0.0	16.9
SLE Frequenti +	105	0.00	0.14	0.00	-62.5	0.0	2.5
	101	0.00	-0.13	0.00	66.3	0.0	17.8
SLE Quasi Permanenti -	105	0.00	0.13	0.00	-62.5	0.0	2.3
	101	0.00	-0.13	0.00	62.5	0.0	16.9
SLE Quasi Permanenti +	105	0.00	0.13	0.00	-62.5	0.0	2.3
	101	0.00	-0.13	0.00	62.5	0.0	16.9
SLD -	105	0.00	0.05	0.00	-64.3	0.0	1.0
	101	0.00	-0.21	0.00	60.7	0.0	5.6
SLD +	105	0.00	0.21	0.00	-60.7	0.0	3.6
	101	0.00	-0.05	0.00	64.3	0.0	28.2
SLU Statiche -	109	0.00	0.06	0.00	-198.1	0.0	33.0
	105	0.00	-0.07	0.00	170.5	0.0	-27.5
SLU Statiche +	109	0.00	0.07	0.00	-170.5	0.0	38.3
	105	0.00	-0.06	0.00	198.1	0.0	-23.5
SLV -	109	0.00	-0.06	0.00	-121.4	0.0	-5.1
	105	0.00	-0.14	0.00	101.2	0.0	-26.8
SLV +	109	0.00	0.14	0.00	-101.2	0.0	47.9
	105	0.00	0.06	0.00	121.4	0.0	-3.4
SLE Rare -	109	0.00	0.05	0.00	-147.3	0.0	24.9
	105	0.00	-0.05	0.00	129.0	0.0	-20.4
SLE Rare +	109	0.00	0.05	0.00	-129.0	0.0	28.4
	105	0.00	-0.05	0.00	147.3	0.0	-17.7
SLE Frequenti -	109	0.00	0.04	0.00	-118.7	0.0	21.4
	105	0.00	-0.05	0.00	110.9	0.0	-16.2
SLE Frequenti +	109	0.00	0.05	0.00	-110.9	0.0	22.8
	105	0.00	-0.04	0.00	118.7	0.0	-15.1
SLE Quasi Permanenti -	109	0.00	0.04	0.00	-111.3	0.0	21.4
	105	0.00	-0.04	0.00	111.3	0.0	-15.1
SLE Quasi Permanenti +	109	0.00	0.04	0.00	-111.3	0.0	21.4
	105	0.00	-0.04	0.00	111.3	0.0	-15.1
SLD -	109	0.00	0.00	0.00	-115.5	0.0	10.7
	105	0.00	-0.08	0.00	107.1	0.0	-19.8
SLD +	109	0.00	0.08	0.00	-107.1	0.0	32.1
	105	0.00	-0.00	0.00	115.5	0.0	-10.4
SLU Statiche -	117	0.00	-3.44	0.00	-303.9	0.0	108.6
	109	0.00	2.95	0.00	264.4	0.0	-301.8
SLU Statiche +	117	0.00	-2.95	0.00	-264.4	0.0	129.6
	109	0.00	3.44	0.00	303.9	0.0	-256.3

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLV -	117	0.00	-1.98	0.00	-203.7	0.0	54.4
	109	0.00	1.81	0.00	141.3	0.0	-179.2
SLV +	117	0.00	-1.81	0.00	-141.3	0.0	80.3
	109	0.00	1.98	0.00	203.7	0.0	-144.7
SLE Rare -	117	0.00	-2.55	0.00	-225.4	0.0	81.4
	109	0.00	2.22	0.00	199.1	0.0	-222.7
SLE Rare +	117	0.00	-2.22	0.00	-199.1	0.0	95.3
	109	0.00	2.55	0.00	225.4	0.0	-192.4
SLE Frequenti -	117	0.00	-2.02	0.00	-183.0	0.0	67.3
	109	0.00	1.89	0.00	172.5	0.0	-174.1
SLE Frequenti +	117	0.00	-1.89	0.00	-172.5	0.0	72.9
	109	0.00	2.02	0.00	183.0	0.0	-162.0
SLE Quasi Permanenti -	117	0.00	-1.89	0.00	-172.5	0.0	67.3
	109	0.00	1.89	0.00	172.5	0.0	-162.0
SLE Quasi Permanenti +	117	0.00	-1.89	0.00	-172.5	0.0	67.3
	109	0.00	1.89	0.00	172.5	0.0	-162.0
SLD -	117	0.00	-1.93	0.00	-185.3	0.0	62.1
	109	0.00	1.86	0.00	159.8	0.0	-168.9
SLD +	117	0.00	-1.86	0.00	-159.8	0.0	72.6
	109	0.00	1.93	0.00	185.3	0.0	-155.0
SLU Statiche -	104	0.00	-0.32	0.00	193.8	0.0	-34.8
	108	0.00	0.28	0.00	-220.3	0.0	-11.9
SLU Statiche +	104	0.00	-0.28	0.00	220.3	0.0	-31.1
	108	0.00	0.32	0.00	-193.8	0.0	-10.6
SLV -	104	0.00	-0.41	0.00	124.3	0.0	-48.3
	108	0.00	-0.03	0.00	-132.4	0.0	-12.3
SLV +	104	0.00	0.03	0.00	132.4	0.0	6.7
	108	0.00	0.41	0.00	-124.3	0.0	-1.6
SLE Rare -	104	0.00	-0.24	0.00	146.2	0.0	-25.9
	108	0.00	0.21	0.00	-163.9	0.0	-8.8
SLE Rare +	104	0.00	-0.21	0.00	163.9	0.0	-23.4
	108	0.00	0.24	0.00	-146.2	0.0	-7.9
SLE Frequenti -	104	0.00	-0.20	0.00	128.4	0.0	-21.8
	108	0.00	0.19	0.00	-135.4	0.0	-7.3
SLE Frequenti +	104	0.00	-0.19	0.00	135.4	0.0	-20.8
	108	0.00	0.20	0.00	-128.4	0.0	-7.0
SLE Quasi Permanenti -	104	0.00	-0.19	0.00	128.4	0.0	-20.8
	108	0.00	0.19	0.00	-128.4	0.0	-7.0
SLE Quasi Permanenti +	104	0.00	-0.19	0.00	128.4	0.0	-20.8
	108	0.00	0.19	0.00	-128.4	0.0	-7.0
SLD -	104	0.00	-0.28	0.00	126.6	0.0	-32.3
	108	0.00	0.10	0.00	-130.1	0.0	-9.2
SLD +	104	0.00	-0.10	0.00	130.1	0.0	-9.3
	108	0.00	0.28	0.00	-126.6	0.0	-4.7
SLU Statiche -	108	0.00	-0.20	0.00	346.6	0.0	9.1
	112	0.00	0.18	0.00	-399.7	0.0	-40.8
SLU Statiche +	108	0.00	-0.18	0.00	399.7	0.0	10.7
	112	0.00	0.20	0.00	-346.6	0.0	-35.5
SLV -	108	0.00	-0.23	0.00	214.0	0.0	-2.4
	112	0.00	0.01	0.00	-240.8	0.0	-48.0
SLV +	108	0.00	-0.01	0.00	240.8	0.0	14.0
	112	0.00	0.23	0.00	-214.0	0.0	1.6
SLE Rare -	108	0.00	-0.15	0.00	261.9	0.0	6.9
	112	0.00	0.13	0.00	-297.3	0.0	-30.4

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLE Rare +	108	0.00	-0.13	0.00	297.3	0.0	7.9
	112	0.00	0.15	0.00	-261.9	0.0	-26.8
SLE Frequenti -	108	0.00	-0.12	0.00	226.9	0.0	5.8
	112	0.00	0.12	0.00	-241.6	0.0	-24.7
SLE Frequenti +	108	0.00	-0.12	0.00	241.6	0.0	6.2
	112	0.00	0.12	0.00	-226.9	0.0	-23.2
SLE Quasi Permanenti -	108	0.00	-0.12	0.00	227.4	0.0	5.8
	112	0.00	0.12	0.00	-227.4	0.0	-23.2
SLE Quasi Permanenti +	108	0.00	-0.12	0.00	227.4	0.0	5.8
	112	0.00	0.12	0.00	-227.4	0.0	-23.2
SLD -	108	0.00	-0.17	0.00	222.0	0.0	2.4
	112	0.00	0.07	0.00	-232.8	0.0	-33.6
SLD +	108	0.00	-0.07	0.00	232.8	0.0	9.3
	112	0.00	0.17	0.00	-222.0	0.0	-12.9
SLU Statiche -	112	0.00	2.07	0.00	483.5	0.0	356.4
	120	0.00	-2.40	0.00	-558.7	0.0	-293.6
SLU Statiche +	112	0.00	2.40	0.00	558.7	0.0	413.6
	120	0.00	-2.07	0.00	-483.5	0.0	-252.8
SLV -	112	0.00	1.33	0.00	266.8	0.0	216.5
	120	0.00	-1.35	0.00	-360.6	0.0	-177.7
SLV +	112	0.00	1.35	0.00	360.6	0.0	244.3
	120	0.00	-1.33	0.00	-266.8	0.0	-148.9
SLE Rare -	112	0.00	1.56	0.00	364.1	0.0	268.4
	120	0.00	-1.78	0.00	-414.2	0.0	-217.6
SLE Rare +	112	0.00	1.78	0.00	414.2	0.0	306.5
	120	0.00	-1.56	0.00	-364.1	0.0	-190.4
SLE Frequenti -	112	0.00	1.34	0.00	313.7	0.0	230.3
	120	0.00	-1.43	0.00	-333.8	0.0	-174.2
SLE Frequenti +	112	0.00	1.43	0.00	333.8	0.0	245.7
	120	0.00	-1.34	0.00	-313.7	0.0	-163.2
SLE Quasi Permanenti -	112	0.00	1.34	0.00	313.7	0.0	230.4
	120	0.00	-1.34	0.00	-313.7	0.0	-163.3
SLE Quasi Permanenti +	112	0.00	1.34	0.00	313.7	0.0	230.4
	120	0.00	-1.34	0.00	-313.7	0.0	-163.3
SLD -	112	0.00	1.34	0.00	294.4	0.0	224.7
	120	0.00	-1.35	0.00	-333.1	0.0	-169.2
SLD +	112	0.00	1.35	0.00	333.1	0.0	236.1
	120	0.00	-1.34	0.00	-294.4	0.0	-157.4

Pali o gruppi di pali di fondazione

Convenzioni adottate

I *pali* o *gruppo di pali* di fondazione vengono schematizzati nel codice di calcolo assimilandoli ad un elemento boundary, agente nel nodo definito dall'operatore, ed in grado di reagire lungo le sei componenti di spostamento possibili per il nodo.

La matrice di rigidezza dell'elemento *palo* o *gruppo di pali* risulta pertanto essere cosi composta:

	U_x	U_y	U_z	R_x	R_y	R_z
U_x	K_{UxUx}	K_{UxUy}	K_{UxUz}	K_{UxRx}	K_{UxRy}	K_{UxRz}
U_y		K_{UyUy}	K_{UyUz}	K_{UyRx}	K_{UyRy}	K_{UyRz}
U_z			K_{UzUz}	K_{UzRx}	K_{UzRy}	K_{UzRz}
R_x				K_{RxRx}	K_{RxRy}	K_{RxRz}
R_y		simm.			K_{RyRy}	K_{RyRz}

R_z K_{RzRz}

Tale matrice può essere definita direttamente dall'operatore ovvero calcolata con l'ausilio del programma **Pali**.

In ogni caso il codice di calcolo si limita ad assemblare tale matrice, assumendo che la stessa sia già definita nel sistema di riferimento gloabale, ed a ottenere le sei componenti di sollecitazioni ad essa associate.

Tale matrice è riferita ad una terna di riferimento **destrorsa**.

Nodo	Comb.	Tx [kN]	Ty [kN]	N [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
1	SLU Statiche -	-2.58	-5.19	-413.91	-1020.0	612.7	0.1
	SLU Statiche +	-2.53	-4.83	-408.86	-889.9	638.5	0.2
	SLV -	-19.40	-36.69	-480.16	-4278.3	-2640.8	-390.4
	SLV +	15.59	29.87	-114.63	3122.8	3595.5	390.6
	SLE Rare -	-1.94	-3.91	-311.60	-755.0	462.0	0.1
	SLE Rare +	-1.90	-3.67	-308.24	-668.3	479.2	0.2
	SLE Frequenti -	-1.94	-3.51	-301.13	-612.5	470.5	0.1
	SLE Frequenti +	-1.89	-3.41	-297.39	-577.7	486.9	0.1
	SLE Quasi Permanenti -	-1.90	-3.41	-297.39	-577.7	477.4	0.1
	SLE Quasi Permanenti +	-1.90	-3.41	-297.39	-577.7	477.4	0.1
	SLD -	-9.35	-16.85	-371.29	-2082.1	-846.7	-159.1
	SLD +	5.55	10.03	-223.49	926.6	1801.4	159.3
2	SLU Statiche -	-0.36	-11.62	-416.79	-2896.2	-6.5	-6.7
	SLU Statiche +	-0.34	-11.41	-413.31	-2857.7	2.0	-6.4
	SLV -	-18.31	-35.70	-415.31	-5599.1	-3340.3	-399.1
	SLV +	17.87	19.15	-186.94	1566.2	3336.6	390.2
	SLE Rare -	-0.26	-8.60	-313.75	-2127.0	-7.2	-5.0
	SLE Rare +	-0.24	-8.46	-311.43	-2101.4	-1.5	-4.8
	SLE Frequenti -	-0.23	-8.51	-305.12	-2084.6	-3.7	-4.5
	SLE Frequenti +	-0.22	-8.22	-301.12	-2006.2	0.6	-4.4
	SLE Quasi Permanenti -	-0.22	-8.28	-301.12	-2016.5	-1.8	-4.4
	SLE Quasi Permanenti +	-0.22	-8.28	-301.12	-2016.5	-1.8	-4.4
	SLD -	-7.92	-19.68	-347.08	-3508.0	-1416.0	-165.4
	SLD +	7.47	3.13	-255.17	-525.0	1412.3	156.5
3	SLU Statiche -	0.34	-11.76	-405.15	-2942.4	-177.9	7.9
	SLU Statiche +	0.35	-11.55	-402.81	-2903.6	-170.6	8.2
	SLV -	-17.67	-35.98	-405.63	-5621.9	-3412.3	-377.4
	SLV +	18.17	19.22	-182.21	1518.0	3177.4	388.8
	SLE Rare -	0.25	-8.71	-305.03	-2162.5	-131.6	6.0
	SLE Rare +	0.26	-8.57	-303.47	-2136.6	-126.8	6.1
	SLE Frequenti -	0.24	-8.61	-297.92	-2120.2	-120.0	5.7
	SLE Frequenti +	0.26	-8.32	-293.92	-2041.6	-117.5	5.8
	SLE Quasi Permanenti -	0.25	-8.38	-293.92	-2052.0	-117.5	5.7
	SLE Quasi Permanenti +	0.25	-8.38	-293.92	-2052.0	-117.5	5.7
	SLD -	-7.38	-19.89	-340.64	-3538.3	-1514.2	-150.8
	SLD +	7.87	3.13	-247.21	-565.6	1279.3	162.2
4	SLU Statiche -	2.35	-4.64	-379.77	-865.2	-765.9	1.1
	SLU Statiche +	2.44	-4.35	-378.08	-758.9	-750.5	1.4
	SLV -	-15.84	-29.18	-412.20	-3330.0	-3747.0	-377.0
	SLV +	19.49	22.98	-140.43	2339.5	2612.1	379.2
	SLE Rare -	1.78	-3.50	-286.03	-640.8	-576.2	0.9
	SLE Rare +	1.83	-3.31	-284.91	-569.9	-565.9	1.1
	SLE Frequenti -	1.80	-3.17	-280.05	-523.6	-576.9	1.1
	SLE Frequenti +	1.86	-3.10	-276.31	-495.3	-563.3	1.1

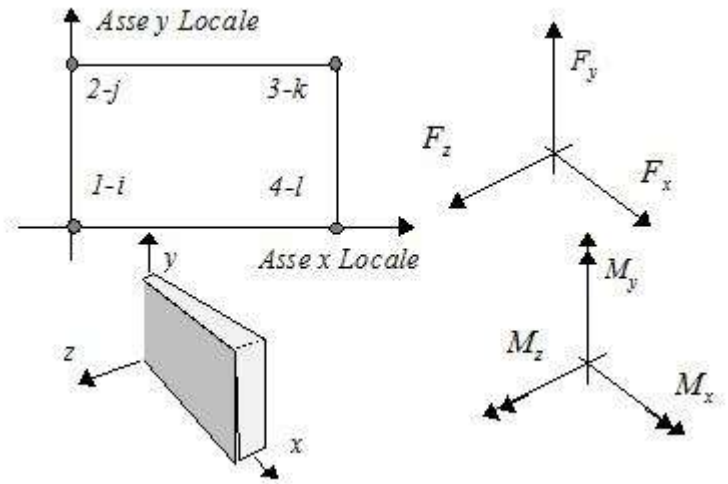
Nodo	Comb.	Tx [kN]	Ty [kN]	N [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
	SLE Quasi Permanenti -	1.83	-3.10	-276.31	-495.3	-567.4	1.1
	SLE Quasi Permanenti +	1.83	-3.10	-276.31	-495.3	-567.4	1.1
	SLD -	-5.70	-14.00	-334.51	-1681.0	-1916.2	-153.3
	SLD +	9.35	7.81	-218.12	690.4	781.3	155.5
9	SLU Statiche -	0.64	3.95	-372.67	1627.0	-478.4	-24.8
	SLU Statiche +	1.35	4.02	-359.62	1671.9	-260.0	-24.1
	SLV -	-26.00	-32.36	-432.12	-3004.4	-5530.9	-410.6
	SLV +	26.65	38.14	-78.31	5495.2	5244.5	376.4
	SLE Rare -	0.59	2.94	-279.05	1228.1	-371.5	-18.5
	SLE Rare +	1.05	2.99	-270.35	1258.0	-225.9	-18.1
	SLE Frequenti -	0.22	2.87	-258.70	1233.4	-201.4	-17.4
	SLE Frequenti +	0.51	2.96	-255.22	1266.6	-111.8	-17.1
	SLE Quasi Permanenti -	0.33	2.89	-255.22	1245.4	-143.2	-17.1
	SLE Quasi Permanenti +	0.33	2.89	-255.22	1245.4	-143.2	-17.1
	SLD -	-10.44	-11.34	-326.63	-480.5	-2333.4	-177.5
	SLD +	11.09	17.12	-183.81	2971.3	2047.0	143.3
10	SLU Statiche -	0.65	12.49	-338.15	4266.7	-412.0	-1.5
	SLU Statiche +	1.08	12.69	-334.92	4302.9	-275.3	-1.4
	SLV -	-28.22	-20.01	-307.41	-930.6	-6218.5	-392.0
	SLV +	29.10	37.71	-170.75	7071.2	5846.3	390.1
	SLE Rare -	0.57	9.32	-252.47	3198.4	-323.4	-1.1
	SLE Rare +	0.86	9.45	-250.31	3222.5	-232.3	-1.0
	SLE Frequenti -	0.37	8.85	-243.62	3070.3	-222.5	-1.0
	SLE Frequenti +	0.55	9.02	-239.08	3122.3	-163.6	-1.0
	SLE Quasi Permanenti -	0.44	8.85	-239.08	3070.3	-186.1	-1.0
	SLE Quasi Permanenti +	0.44	8.85	-239.08	3070.3	-186.1	-1.0
	SLD -	-11.33	-3.15	-266.61	1406.1	-2653.5	-160.5
	SLD +	12.21	20.84	-211.55	4734.5	2281.3	158.5
11	SLU Statiche -	-1.20	12.35	-327.53	4221.7	141.1	3.2
	SLU Statiche +	-0.78	12.54	-325.55	4253.2	254.8	3.4
	SLV -	-27.33	-20.34	-295.24	-966.5	-5204.3	-380.0
	SLV +	26.23	37.85	-170.43	7044.7	5405.2	384.8
	SLE Rare -	-0.95	9.22	-244.55	3164.2	131.4	2.4
	SLE Rare +	-0.68	9.34	-243.24	3185.2	207.2	2.5
	SLE Frequenti -	-0.66	8.75	-237.38	3039.1	78.0	2.4
	SLE Frequenti +	-0.47	8.93	-232.84	3091.1	130.8	2.5
	SLE Quasi Permanenti -	-0.55	8.75	-232.84	3039.1	100.4	2.4
	SLE Quasi Permanenti +	-0.55	8.75	-232.84	3039.1	100.4	2.4
	SLD -	-11.94	-3.38	-258.92	1370.2	-2161.1	-153.7
	SLD +	10.84	20.88	-206.76	4708.0	2362.0	158.6
12	SLU Statiche -	-1.04	3.62	-334.96	1525.8	12.6	22.4
	SLU Statiche +	-0.38	3.71	-326.24	1576.1	196.5	22.7
	SLV -	-23.33	-25.26	-392.30	-2184.7	-4294.5	-359.6
	SLV +	23.00	30.61	-73.47	4536.5	4253.5	392.1
	SLE Rare -	-0.82	2.69	-250.93	1151.3	39.2	16.8
	SLE Rare +	-0.39	2.76	-245.12	1184.8	161.8	17.0
	SLE Frequenti -	-0.34	2.65	-236.10	1162.5	-52.0	16.2
	SLE Frequenti +	-0.06	2.74	-232.88	1197.1	28.5	16.5
	SLE Quasi Permanenti -	-0.17	2.67	-232.88	1175.9	-20.5	16.2
	SLE Quasi Permanenti +	-0.17	2.67	-232.88	1175.9	-20.5	16.2
	SLD -	-10.05	-9.01	-299.48	-229.1	-1852.8	-137.3
	SLD +	9.72	14.35	-166.29	2580.9	1811.7	169.8

Nodo	Comb.	Tx [kN]	Ty [kN]	N [kN]	Mx [kgm]	My [kgm]	Mz [kgm]

Sollecitazioni nei setti

Convenzioni adottate

L'elemento parete viene individuato tramite il numero dei due nodi a numerazione più bassa cui fa capo l'elemento. La numerazione dei nodi e le convenzioni sulle sollecitazioni agenti nel setto sono le seguenti:



Dove:

F_x, F_y, F_z
forze, agenti nel generico nodo, in direzione degli assi locali **x**, **y**, **z**.

M_x, M_y, M_z
momenti agenti nel generico nodo ed aventi asse vettore concorde con gli assi locali **x**, **y**, **z**.

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
SLU Statiche -	1	46.77	102.43	-24.37	-3190.0	94.5	154.0
	13	0.48	3.80	22.91	-2003.0	514.3	920.0
	101	-30.91	21.32	-4.21	63.4	211.8	-518.3
	102	-20.99	-33.58	3.66	-1304.7	258.5	371.3
	14	-11.08	-35.93	13.38	-568.4	132.2	-118.3
	2	11.26	23.93	-13.03	-1855.7	-35.2	-2495.0
SLU Statiche +	1	47.12	103.55	-23.98	-3144.4	145.7	223.8
	13	2.48	4.84	23.99	-1985.1	656.8	935.8
	101	-28.99	23.16	-4.17	121.4	265.2	-438.6
	102	-20.70	-31.64	4.45	-1135.2	311.7	429.0
	14	-8.28	-34.82	14.20	-564.6	194.7	-106.9
	2	12.63	24.99	-12.83	-1809.0	0.3	-2423.4
SLV -	1	1.46	-15.89	-23.46	-2988.2	-567.9	-1670.9
	13	-14.37	-72.35	9.46	-1978.3	-70.5	42.2
	101	-55.14	-37.99	-7.20	-355.9	21.5	-654.9
	102	-37.53	-46.65	0.88	-919.9	53.8	-440.7
	14	-57.47	-71.84	6.74	-802.4	-207.8	-564.3
	2	-28.25	-37.89	-14.45	-1696.1	-649.2	-4937.5
SLV +	1	67.54	168.71	-11.02	-1532.9	666.3	1896.6
	13	19.79	76.24	26.16	-889.4	710.5	1281.1
	101	15.61	66.60	1.00	586.9	248.2	108.5
	102	7.99	2.51	3.75	-578.1	282.3	973.6
	14	38.37	23.34	12.07	-27.5	354.7	432.0

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	2	41.99	76.80	-3.93	-868.8	573.4	1323.5
SLE Rare -	1	35.19	77.52	-18.27	-2390.9	74.4	132.2
	13	0.46	2.74	17.21	-1502.5	395.8	691.3
	101	-22.92	15.92	-3.17	50.9	163.1	-381.0
	102	-15.58	-25.10	2.78	-971.6	197.8	290.6
	14	-8.32	-26.68	10.10	-426.7	103.9	-84.5
	2	8.20	19.02	-9.75	-1386.1	-23.6	-1903.1
SLE Rare +	1	35.41	78.26	-18.01	-2360.5	108.5	178.7
	13	1.79	3.43	17.92	-1490.6	490.7	701.9
	101	-21.64	17.15	-3.14	89.5	198.7	-327.9
	102	-15.38	-23.80	3.31	-858.5	233.3	329.1
	14	-6.45	-25.94	10.65	-424.2	145.6	-76.9
	2	9.12	19.73	-9.62	-1354.9	0.1	-1855.4
SLE Frequenti -	1	34.42	76.27	-17.50	-2295.3	44.7	99.3
	13	2.18	1.94	17.52	-1456.3	310.4	661.7
	101	-20.28	14.30	-3.15	100.0	131.2	-294.4
	102	-15.13	-22.59	2.28	-794.2	165.2	259.3
	14	-9.87	-24.72	9.40	-422.1	67.9	-69.2
	2	6.87	19.01	-9.34	-1303.1	-42.5	-1825.5
SLE Frequenti +	1	35.06	77.31	-17.24	-2260.5	62.9	131.4
	13	2.92	2.22	18.23	-1433.8	358.0	671.2
	101	-19.76	14.80	-3.09	121.9	149.1	-273.2
	102	-14.75	-22.07	2.52	-747.2	182.2	281.8
	14	-8.80	-24.25	9.62	-413.9	90.2	-66.2
	2	7.24	19.64	-9.19	-1282.4	-28.5	-1807.0
SLE Quasi Permanenti -	1	34.50	76.41	-17.24	-2260.5	49.2	112.8
	13	2.71	1.94	17.81	-1433.8	320.0	661.7
	101	-19.76	14.30	-3.10	115.5	134.9	-273.2
	102	-14.77	-22.07	2.31	-749.0	168.0	266.4
	14	-9.55	-24.25	9.40	-414.9	73.5	-66.2
	2	6.87	19.46	-9.19	-1282.4	-37.9	-1807.0
SLE Quasi Permanenti +	1	34.50	76.41	-17.24	-2260.5	49.2	112.8
	13	2.71	1.94	17.81	-1433.8	320.0	661.7
	101	-19.76	14.30	-3.10	115.5	134.9	-273.2
	102	-14.77	-22.07	2.31	-749.0	168.0	266.4
	14	-9.55	-24.25	9.40	-414.9	73.5	-66.2
	2	6.87	19.46	-9.19	-1282.4	-37.9	-1807.0
SLD -	1	20.98	38.86	-19.90	-2571.4	-199.6	-648.3
	13	-4.17	-28.04	14.23	-1663.5	162.7	402.7
	101	-34.52	-6.77	-4.76	-81.3	86.6	-429.0
	102	-24.49	-32.56	1.71	-820.2	119.7	-18.7
	14	-28.83	-44.68	8.29	-573.3	-40.3	-279.3
	2	-7.77	-3.63	-11.31	-1450.4	-284.4	-3072.8
SLD +	1	48.03	113.96	-14.58	-1949.6	298.1	873.9
	13	9.59	31.93	21.39	-1204.1	477.3	920.6
	101	-5.00	35.38	-1.44	312.3	183.1	-117.3
	102	-5.06	-11.58	2.91	-677.8	216.4	551.6
	14	9.73	-3.82	10.52	-256.6	187.3	146.9
	2	21.51	42.55	-7.06	-1114.5	208.6	-541.2
SLU Statiche -	2	-9.99	29.88	0.20	-502.9	33.6	1466.2
	14	8.28	34.82	-14.20	564.6	-194.7	106.9
	102	-8.77	-17.49	9.31	-2502.1	-98.2	-1772.2
	103	-1.30	-25.63	12.28	-2726.2	260.1	1377.0
	15	-3.48	28.56	-12.12	554.6	817.8	-295.8
	3	10.80	28.57	2.45	-328.4	59.9	-1575.5

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
SLU Statiche +	2	-9.48	32.62	0.62	-436.7	39.0	1616.6
	14	11.08	35.93	-13.38	568.4	-132.2	118.3
	102	-7.67	-14.43	10.19	-2255.8	-81.2	-1557.7
	103	-0.98	-21.86	13.48	-2458.9	296.1	1577.3
	15	-0.08	28.98	-11.50	557.9	955.9	-272.8
	3	11.53	31.13	2.65	-280.1	76.4	-1426.9
SLV -	2	-34.28	-7.87	-1.47	-655.2	-171.8	318.7
	14	-38.37	-23.34	-12.07	27.5	-354.7	-432.0
	102	-43.73	-33.83	4.62	-1791.9	-265.4	-2060.5
	103	-40.12	-39.56	7.28	-1861.6	-24.9	-86.3
	15	-46.03	-27.48	-10.68	77.3	346.9	-680.3
	3	-22.02	-11.06	0.04	-551.8	-165.9	-1955.9
SLV +	2	21.13	54.45	2.86	109.4	230.4	1964.3
	14	57.47	71.84	-6.74	802.4	207.8	564.3
	102	33.45	14.87	8.09	-1263.6	161.8	-54.0
	103	37.96	10.27	9.50	-1473.1	373.8	1942.5
	15	37.71	67.41	-5.56	735.9	736.3	316.6
	3	36.84	55.91	4.12	218.5	241.9	-268.6
SLE Rare -	2	-7.44	23.75	0.19	-368.1	24.8	1168.7
	14	6.45	25.94	-10.65	424.2	-145.6	76.9
	102	-6.55	-13.15	7.02	-1866.3	-73.1	-1329.7
	103	-0.98	-19.26	9.27	-2034.2	197.3	1048.7
	15	-2.53	21.19	-9.08	416.4	623.1	-218.4
	3	8.09	22.77	1.88	-237.6	46.4	-1237.5
SLE Rare +	2	-7.10	25.58	0.47	-323.9	28.4	1269.0
	14	8.32	26.68	-10.10	426.7	-103.9	84.5
	102	-5.83	-11.11	7.60	-1702.2	-61.7	-1186.7
	103	-0.77	-16.75	10.07	-1856.0	221.3	1182.2
	15	-0.27	21.47	-8.67	418.6	715.2	-203.0
	3	8.58	24.47	2.01	-205.5	57.5	-1138.4
SLE Frequenti -	2	-6.71	22.61	0.58	-290.6	27.8	1105.0
	14	8.80	24.25	-9.62	413.9	-90.2	66.2
	102	-5.43	-10.30	6.36	-1593.5	-56.3	-1114.5
	103	-1.11	-15.65	8.39	-1738.6	173.8	921.6
	15	-4.48	19.97	-8.28	405.7	536.3	-188.0
	3	7.41	21.74	2.03	-179.5	36.7	-1151.9
SLE Frequenti +	2	-6.57	24.02	0.73	-272.9	30.6	1181.6
	14	9.87	24.72	-9.40	422.1	-67.9	69.2
	102	-5.12	-9.27	6.59	-1527.8	-51.1	-1050.5
	103	-1.01	-14.44	8.71	-1667.4	184.0	981.5
	15	-3.26	20.44	-8.12	413.7	578.4	-181.8
	3	7.61	23.11	2.11	-166.7	42.5	-1075.8
SLE Quasi Permanenti -	2	-6.57	23.29	0.69	-272.9	29.3	1141.5
	14	9.55	24.25	-9.40	414.9	-73.5	66.2
	102	-5.14	-9.48	6.36	-1527.8	-51.8	-1057.3
	103	-1.08	-14.65	8.39	-1667.4	174.4	928.1
	15	-4.16	19.97	-8.12	406.6	541.6	-181.8
	3	7.41	22.43	2.08	-166.7	38.0	-1112.3
SLE Quasi Permanenti +	2	-6.57	23.29	0.69	-272.9	29.3	1141.5
	14	9.55	24.25	-9.40	414.9	-73.5	66.2
	102	-5.14	-9.48	6.36	-1527.8	-51.8	-1057.3
	103	-1.08	-14.65	8.39	-1667.4	174.4	928.1
	15	-4.16	19.97	-8.12	406.6	541.6	-181.8
	3	7.41	22.43	2.08	-166.7	38.0	-1112.3
SLD -	2	-18.33	10.19	-0.23	-432.9	-56.5	798.6
	14	-9.73	3.82	-10.52	256.6	-187.3	-146.9

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	102	-21.63	-19.92	5.66	-1635.0	-139.4	-1483.9
	103	-17.54	-25.02	7.91	-1749.7	92.2	500.1
	15	-21.68	-0.14	-9.18	266.5	458.0	-394.6
	3	-5.17	8.15	1.22	-321.9	-47.9	-1465.2
SLD +	2	5.18	36.39	1.62	-112.9	115.0	1484.5
	14	28.83	44.68	-8.29	573.3	40.3	279.3
	102	11.35	0.95	7.06	-1420.6	35.8	-630.6
	103	15.38	-4.27	8.86	-1585.0	256.7	1356.2
	15	13.36	40.07	-7.06	546.7	625.2	31.0
	3	19.99	36.70	2.94	-11.5	123.9	-759.3
SLU Statiche -	3	-15.16	19.84	-8.51	-1435.6	-144.5	2196.3
	15	0.08	-28.98	11.50	-557.9	-955.9	272.8
	103	14.36	-33.66	8.40	-1780.8	-516.9	-634.9
	104	33.22	23.36	-3.56	-190.8	-469.6	930.4
	16	6.29	8.71	12.32	-1888.7	-1429.5	-1121.8
	4	-44.32	92.61	-22.51	-2849.2	-294.0	-156.4
SLU Statiche +	3	-13.65	20.49	-8.22	-1430.3	-94.5	2251.6
	15	3.48	-28.56	12.12	-554.6	-817.8	295.8
	103	14.99	-31.70	9.71	-1563.5	-442.8	-555.2
	104	35.35	25.14	-3.42	-106.1	-395.4	1051.2
	16	9.06	10.11	14.47	-1880.4	-1210.3	-1092.2
	4	-43.68	93.88	-22.30	-2837.1	-227.8	-91.2
SLV -	3	-43.41	-31.36	-10.08	-1354.8	-460.5	-487.4
	15	-37.71	-67.41	5.56	-735.9	-736.3	-316.6
	103	-11.83	-46.89	3.78	-1208.5	-431.5	-867.0
	104	-11.91	-31.27	-6.31	-472.4	-410.3	275.9
	16	-9.00	-62.67	3.01	-1910.2	-1083.8	-1383.6
	4	-63.05	-7.04	-22.00	-2778.5	-552.0	-1903.3
SLV +	3	26.21	64.32	-2.39	-692.3	359.6	3772.7
	15	46.03	27.48	10.68	-77.3	-346.9	680.3
	103	33.32	2.71	7.31	-873.6	-155.4	87.6
	104	57.64	63.12	0.97	394.3	-109.1	965.9
	16	15.84	73.55	19.62	-811.8	-506.4	-183.0
	4	-2.14	147.05	-10.17	-1321.8	272.0	1766.3
SLE Rare -	3	-11.03	15.90	-6.34	-1071.6	-108.0	1681.9
	15	0.27	-21.47	8.67	-418.6	-715.2	203.0
	103	10.62	-25.15	6.37	-1327.7	-386.7	-482.4
	104	24.88	17.49	-2.68	-139.3	-351.5	702.5
	16	4.86	6.48	9.28	-1416.8	-1068.9	-842.0
	4	-33.29	70.11	-16.88	-2135.7	-219.4	-128.0
SLE Rare +	3	-10.02	16.33	-6.15	-1068.1	-74.6	1718.8
	15	2.53	-21.19	9.08	-416.4	-623.1	218.4
	103	11.04	-23.84	7.24	-1182.8	-337.3	-429.3
	104	26.30	18.68	-2.58	-82.8	-302.0	783.1
	16	6.71	7.41	10.71	-1411.2	-922.7	-822.3
	4	-32.87	70.96	-16.74	-2127.7	-175.3	-84.5
SLE Frequenti -	3	-9.00	16.03	-6.39	-1044.1	-63.8	1642.6
	15	3.26	-20.44	8.12	-413.7	-578.4	181.8
	103	10.58	-22.61	5.52	-1099.0	-313.2	-411.0
	104	22.86	15.93	-2.72	-61.7	-279.5	620.9
	16	3.22	5.44	10.75	-1383.3	-853.6	-792.9
	4	-33.16	69.67	-16.34	-2084.9	-157.7	-85.9
SLE Frequenti +	3	-8.60	16.61	-6.16	-1023.5	-45.8	1657.4
	15	4.48	-19.97	8.28	-405.7	-536.3	188.0
	103	11.10	-22.09	5.90	-1039.5	-290.7	-382.9

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	104	23.43	16.40	-2.63	-32.7	-256.1	653.1
	16	4.16	5.81	11.73	-1361.0	-785.8	-783.3
	4	-32.42	70.91	-16.08	-2050.2	-135.6	-54.8
SLE Quasi Permanenti -	3	-8.60	16.48	-6.24	-1023.5	-50.4	1642.6
	15	4.16	-19.97	8.12	-406.6	-541.6	181.8
	103	10.74	-22.09	5.55	-1041.1	-293.4	-389.7
	104	22.86	15.93	-2.67	-39.1	-259.7	620.9
	16	3.42	5.44	11.32	-1361.0	-795.1	-783.3
	4	-32.59	70.01	-16.08	-2050.2	-140.0	-68.5
SLE Quasi Permanenti +	3	-8.60	16.48	-6.24	-1023.5	-50.4	1642.6
	15	4.16	-19.97	8.12	-406.6	-541.6	181.8
	103	10.74	-22.09	5.55	-1041.1	-293.4	-389.7
	104	22.86	15.93	-2.67	-39.1	-259.7	620.9
	16	3.42	5.44	11.32	-1361.0	-795.1	-783.3
	4	-32.59	70.01	-16.08	-2050.2	-140.0	-68.5
SLD -	3	-23.11	-3.54	-7.88	-1166.1	-225.3	729.6
	15	-13.36	-40.07	7.06	-546.7	-625.2	-31.0
	103	1.53	-32.56	4.83	-1110.7	-349.7	-589.8
	104	8.37	-3.80	-4.18	-219.3	-320.8	472.5
	16	-1.79	-23.01	7.79	-1596.7	-916.1	-1032.4
	4	-45.64	36.86	-18.59	-2361.6	-316.1	-850.3
SLD +	3	5.92	36.50	-4.59	-881.0	124.4	2555.7
	15	21.68	0.14	9.18	-266.5	-458.0	394.6
	103	19.96	-11.62	6.26	-971.4	-237.2	-189.6
	104	37.36	35.65	-1.15	141.1	-198.6	769.3
	16	8.63	33.89	14.85	-1125.3	-674.1	-534.2
	4	-19.54	103.15	-13.57	-1738.7	36.1	713.4
SLU Statiche -	5	6.70	-25.58	-3.65	-300.3	104.2	-1583.7
	17	132.76	14.84	5.80	-137.9	7.8	2926.1
	105	-31.09	-5.49	2.35	-419.0	-125.5	-1615.5
	101	-16.05	-41.16	-0.71	-96.1	-232.3	241.6
	13	-23.99	-4.84	0.48	-935.8	-656.8	-2003.0
	1	-76.88	102.29	-6.42	-1006.9	-58.9	2010.3
SLU Statiche +	5	8.73	-25.13	-3.09	-254.2	117.3	-1535.1
	17	140.23	15.89	6.45	-130.7	42.0	3005.4
	105	-28.36	-4.30	3.15	-334.6	-100.5	-1485.7
	101	-13.49	-37.95	-0.59	-60.2	-187.5	287.0
	13	-22.91	-3.80	2.48	-920.0	-514.3	-1985.1
	1	-75.65	105.06	-6.37	-995.0	-20.8	2044.1
SLV -	5	-19.95	-37.88	-10.20	-718.7	-169.1	-2696.3
	17	60.72	-132.24	2.42	-573.1	-211.0	1310.6
	105	-64.78	-58.27	-2.55	-595.8	-180.9	-2060.6
	101	-47.92	-71.28	-7.76	-823.5	-295.4	-391.0
	13	-26.16	-76.24	-14.37	-1281.1	-710.5	-1978.3
	1	-83.72	-23.75	-6.32	-1400.0	-252.7	252.9
SLV +	5	34.49	3.07	4.49	255.9	349.8	375.6
	17	125.10	152.85	5.55	365.0	292.1	3146.7
	105	26.11	49.49	5.31	186.3	54.2	10.7
	101	30.94	19.04	6.66	783.9	57.0	871.1
	13	-9.46	72.35	19.79	-42.2	70.5	-889.4
	1	-25.37	172.17	-3.03	-87.7	254.1	2692.5
SLE Rare -	5	5.13	-18.89	-2.70	-220.5	78.6	-1181.8
	17	99.85	11.18	4.41	-103.5	5.1	2204.4
	105	-23.19	-4.16	1.81	-310.4	-93.7	-1208.2
	101	-11.86	-30.74	-0.56	-67.0	-173.6	188.4

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	13	-17.92	-3.43	0.46	-701.9	-490.7	-1502.5
	1	-57.71	77.38	-4.85	-758.4	-43.0	1498.6
SLE Rare +	5	6.49	-18.59	-2.32	-189.8	87.3	-1149.4
	17	104.83	11.88	4.84	-98.8	27.9	2257.3
	105	-21.37	-3.38	2.35	-254.1	-77.1	-1121.7
	101	-10.15	-28.60	-0.49	-43.1	-143.7	218.6
	13	-17.21	-2.74	1.79	-691.3	-395.8	-1490.6
	1	-56.89	79.23	-4.81	-750.5	-17.6	1521.2
SLE Frequenti -	5	6.73	-17.86	-2.96	-241.3	86.9	-1187.3
	17	92.91	10.31	3.98	-106.2	31.4	2207.5
	105	-20.06	-4.47	1.33	-227.2	-70.0	-1059.6
	101	-9.17	-26.98	-0.55	-29.4	-131.2	228.0
	13	-18.23	-2.22	2.18	-671.2	-358.0	-1456.3
	1	-55.31	74.21	-4.73	-755.1	-9.4	1463.7
SLE Frequenti +	5	7.55	-17.40	-2.70	-219.1	93.2	-1147.4
	17	94.90	10.59	4.16	-102.2	45.6	2269.4
	105	-19.33	-4.16	1.60	-201.2	-61.9	-1025.0
	101	-8.47	-26.12	-0.53	-19.5	-116.5	244.5
	13	-17.52	-1.94	2.92	-661.7	-310.4	-1433.8
	1	-54.55	74.95	-4.68	-740.7	4.3	1508.2
SLE Quasi Permanenti -	5	7.27	-17.40	-2.85	-231.4	90.4	-1160.4
	17	92.91	10.31	3.98	-104.1	40.5	2228.6
	105	-19.33	-4.39	1.38	-204.7	-63.4	-1025.0
	101	-8.49	-26.12	-0.55	-19.8	-119.2	240.1
	13	-17.81	-1.94	2.71	-661.7	-320.0	-1433.8
	1	-54.55	74.21	-4.68	-743.8	0.7	1472.7
SLE Quasi Permanenti +	5	7.27	-17.40	-2.85	-231.4	90.4	-1160.4
	17	92.91	10.31	3.98	-104.1	40.5	2228.6
	105	-19.33	-4.39	1.38	-204.7	-63.4	-1025.0
	101	-8.49	-26.12	-0.55	-19.8	-119.2	240.1
	13	-17.81	-1.94	2.71	-661.7	-320.0	-1433.8
	1	-54.55	74.21	-4.68	-743.8	0.7	1472.7
SLD -	5	-3.83	-25.76	-5.82	-428.1	-14.0	-1782.2
	17	79.91	-47.06	3.35	-294.3	-60.9	1858.8
	105	-37.62	-26.08	-0.20	-362.1	-111.1	-1442.4
	101	-24.36	-44.33	-3.45	-343.8	-190.7	-14.7
	13	-21.39	-31.93	-4.17	-920.6	-477.3	-1663.5
	1	-66.34	34.73	-5.37	-1010.7	-102.5	978.6
SLD +	5	18.37	-9.04	0.11	-34.7	194.8	-538.5
	17	105.91	67.68	4.62	86.1	142.0	2598.5
	105	-1.04	17.29	2.97	-47.3	-15.6	-607.6
	101	7.38	-7.91	2.35	304.1	-47.8	494.8
	13	-14.23	28.04	9.59	-402.7	-162.7	-1204.1
	1	-42.76	113.69	-3.99	-476.9	103.9	1966.7
SLU Statiche -	8	7.50	-30.65	1.09	188.5	-54.6	-1660.6
	18	112.65	17.30	-10.79	52.2	48.2	2982.6
	108	-33.59	10.01	-7.17	798.6	211.8	-1086.0
	104	-9.81	-33.32	0.24	260.6	398.2	581.1
	16	-14.47	-10.11	6.29	1092.2	1210.3	-1888.7
	4	-68.97	87.08	7.38	1060.3	236.6	2010.5
SLU Statiche +	8	9.30	-29.76	1.76	232.0	-35.7	-1625.7
	18	117.20	18.78	-9.60	72.3	80.0	3038.6
	108	-30.76	12.27	-6.06	926.7	247.2	-1014.4
	104	-8.13	-30.86	0.28	307.4	466.5	596.4
	16	-12.32	-8.71	9.06	1121.8	1429.5	-1880.4

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	4	-68.59	88.10	7.56	1061.6	300.5	2045.5
SLV -	8	-17.35	-39.90	-3.75	-154.1	-291.1	-2541.0
	18	49.07	-104.28	-7.55	-284.5	-140.8	1355.5
	108	-59.74	-39.01	-7.09	216.5	48.3	-1496.1
	104	-37.73	-63.94	-6.01	-588.1	132.7	70.4
	16	-19.62	-73.55	-9.00	183.0	506.4	-1910.2
	4	-70.68	-5.62	2.99	254.5	-109.8	502.5
SLV +	8	32.41	-1.29	6.75	509.8	197.5	123.2
	18	110.31	128.05	-5.44	411.4	199.6	3116.6
	108	17.54	51.37	-0.90	837.2	232.9	77.9
	104	27.66	21.49	6.48	918.4	393.2	778.7
	16	-3.01	62.67	15.84	1383.6	1083.8	-811.8
	4	-28.87	133.33	7.69	1295.3	400.3	2446.8
SLE Rare -	8	5.70	-22.70	0.81	139.1	-39.7	-1239.5
	18	84.68	13.03	-8.06	41.0	41.1	2243.0
	108	-25.09	7.56	-5.37	606.0	161.4	-813.7
	104	-7.23	-24.86	0.21	195.9	303.3	438.9
	16	-10.71	-7.41	4.86	822.3	922.7	-1416.8
	4	-51.80	65.86	5.57	798.2	180.8	1499.0
SLE Rare +	8	6.90	-22.10	1.26	168.1	-27.1	-1216.2
	18	87.71	14.02	-7.27	54.4	62.3	2280.3
	108	-23.21	9.07	-4.63	691.4	185.0	-766.0
	104	-6.11	-23.22	0.23	227.1	348.9	449.2
	16	-9.28	-6.48	6.71	842.0	1068.9	-1411.2
	4	-51.55	66.54	5.69	799.1	223.4	1522.4
SLE Frequenti -	8	7.05	-21.05	1.32	166.3	-49.5	-1235.8
	18	79.69	11.89	-6.81	58.1	24.7	2221.1
	108	-21.85	6.12	-4.29	523.7	139.2	-728.2
	104	-5.48	-21.88	0.22	165.0	260.4	424.6
	16	-11.73	-5.81	3.22	783.3	785.8	-1383.3
	4	-50.53	63.85	5.34	774.9	141.8	1465.3
SLE Frequenti +	8	7.82	-20.59	1.61	187.5	-41.8	-1199.6
	18	80.90	12.28	-6.49	65.6	37.9	2276.8
	108	-21.10	6.78	-3.94	561.0	150.1	-709.1
	104	-5.01	-21.22	0.24	177.6	281.2	429.3
	16	-10.75	-5.44	4.16	792.9	853.6	-1361.0
	4	-49.77	64.52	5.39	786.1	162.3	1510.2
SLE Quasi Permanenti -	8	7.53	-20.59	1.50	177.9	-46.8	-1208.9
	18	79.69	11.89	-6.50	63.5	29.4	2236.0
	108	-21.10	6.18	-4.00	526.8	140.6	-709.1
	104	-5.03	-21.22	0.23	165.1	262.9	424.6
	16	-11.32	-5.44	3.42	783.3	795.1	-1361.0
	4	-49.77	63.85	5.34	774.9	145.3	1474.6
SLE Quasi Permanenti +	8	7.53	-20.59	1.50	177.9	-46.8	-1208.9
	18	79.69	11.89	-6.50	63.5	29.4	2236.0
	108	-21.10	6.18	-4.00	526.8	140.6	-709.1
	104	-5.03	-21.22	0.23	165.1	262.9	424.6
	16	-11.32	-5.44	3.42	783.3	795.1	-1361.0
	4	-49.77	63.85	5.34	774.9	145.3	1474.6
SLD -	8	-2.86	-28.65	-0.70	35.8	-149.0	-1765.3
	18	66.90	-36.74	-6.95	-84.7	-43.4	1868.1
	108	-37.27	-12.74	-5.29	396.9	101.4	-1038.2
	104	-18.72	-39.07	-2.38	-149.6	207.4	272.8
	16	-14.85	-33.89	-1.79	534.2	674.1	-1596.7
	4	-58.72	34.72	4.39	553.6	38.7	1068.3
SLD +	8	17.92	-12.54	3.70	319.9	55.4	-652.5

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	18	92.48	60.52	-6.05	211.6	102.2	2603.9
	108	-4.93	25.10	-2.70	656.8	179.8	-380.0
	104	8.65	-3.37	2.85	479.8	318.5	576.4
	16	-7.79	23.01	8.63	1032.4	916.1	-1125.3
	4	-40.82	92.99	6.29	996.3	251.9	1880.9
SLU Statiche -	9	119.75	187.69	1.59	-195.5	-303.4	-3710.3
	19	-0.00	-0.00	0.00	0.0	0.0	0.0
	109	50.24	-93.70	4.19	-1193.5	-186.4	1456.1
	105	-21.83	-51.80	2.18	-461.4	-58.1	1121.4
	17	-140.23	-15.89	-6.45	130.7	-42.0	-3005.4
	5	-21.57	-0.34	-2.37	-162.9	-361.1	316.0
SLU Statiche +	9	125.66	201.48	1.76	-170.5	-281.2	-3622.2
	19	-0.00	-0.00	0.00	0.0	0.0	0.0
	109	57.98	-82.02	4.62	-1055.1	-159.6	1719.0
	105	-17.66	-45.43	2.61	-397.4	-54.5	1210.0
	17	-132.76	-14.84	-5.80	137.9	-7.8	-2926.1
	5	-19.57	4.96	-2.33	-147.5	-340.6	427.4
SLV -	9	9.69	-56.75	-4.11	-682.2	-441.5	-3354.0
	19	-0.00	-0.00	-0.00	-0.0	-0.0	-0.0
	109	14.45	-59.24	-1.94	-1259.1	-128.6	264.3
	105	-41.80	-88.82	-0.61	-869.9	-99.7	572.3
	17	-125.10	-152.85	-5.55	-365.0	-292.1	-3146.7
	5	-21.28	-19.26	-3.45	-697.1	-418.2	-1462.4
SLV +	9	159.29	319.03	6.83	464.8	49.3	-1797.1
	19	0.00	0.00	0.00	0.0	0.0	0.0
	109	50.85	-49.07	7.54	-134.9	-77.7	1567.7
	105	20.24	28.37	3.46	349.2	25.6	994.7
	17	-60.72	132.24	-2.42	573.1	211.0	-1310.6
	5	-5.62	15.68	0.23	519.3	-57.4	2158.7
SLE Rare -	9	90.17	141.82	1.21	-143.8	-227.5	-2773.8
	19	-0.00	-0.00	0.00	0.0	0.0	0.0
	109	37.83	-69.70	3.14	-886.2	-138.3	1092.3
	105	-16.11	-38.62	1.67	-343.5	-43.0	848.8
	17	-104.83	-11.88	-4.84	98.8	-27.9	-2257.3
	5	-16.15	0.30	-1.75	-116.6	-269.9	237.1
SLE Rare +	9	94.11	151.01	1.32	-127.2	-212.7	-2715.1
	19	-0.00	-0.00	0.00	0.0	0.0	0.0
	109	42.99	-61.91	3.43	-793.9	-120.5	1267.6
	105	-13.33	-34.37	1.95	-300.8	-40.7	907.9
	17	-99.85	-11.18	-4.41	103.5	-5.1	-2204.4
	5	-14.82	3.84	-1.72	-106.3	-256.3	311.4
SLE Frequenti -	9	84.49	131.14	1.32	-115.4	-202.1	-2616.0
	19	-0.00	-0.00	0.00	0.0	0.0	0.0
	109	32.65	-57.27	2.80	-733.9	-110.3	916.0
	105	-11.89	-31.92	1.40	-277.4	-38.0	783.5
	17	-94.90	-10.59	-4.16	102.2	-45.6	-2269.4
	5	-13.98	-2.51	-1.65	-93.0	-243.3	318.5
SLE Frequenti +	9	86.06	134.82	1.40	-108.7	-196.1	-2575.6
	19	-0.00	-0.00	0.00	0.0	0.0	0.0
	109	34.72	-54.14	2.92	-697.0	-102.9	986.1
	105	-10.67	-30.17	1.54	-259.3	-37.1	807.1
	17	-92.91	-10.31	-3.98	106.2	-31.4	-2207.5
	5	-13.45	-0.37	-1.61	-88.9	-237.8	366.9
SLE Quasi Permanenti -	9	84.49	131.14	1.36	-108.7	-196.1	-2575.6
	19	-0.00	-0.00	0.00	0.0	0.0	0.0

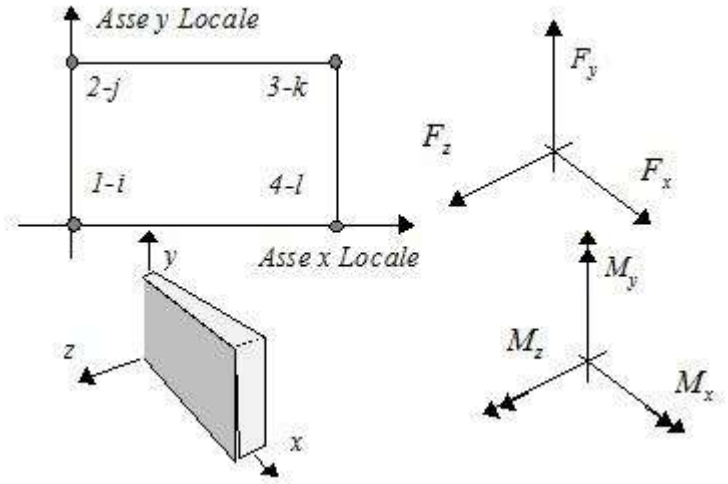
Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	109	32.65	-54.15	2.80	-697.0	-103.2	916.0
	105	-10.78	-30.22	1.42	-260.3	-37.1	783.5
	17	-92.91	-10.31	-3.98	104.1	-40.5	-2228.6
	5	-13.45	-1.79	-1.61	-88.9	-237.8	348.2
SLE Quasi Permanenti +	9	84.49	131.14	1.36	-108.7	-196.1	-2575.6
	19	-0.00	-0.00	0.00	0.0	0.0	0.0
	109	32.65	-54.15	2.80	-697.0	-103.2	916.0
	105	-10.78	-30.22	1.42	-260.3	-37.1	783.5
	17	-92.91	-10.31	-3.98	104.1	-40.5	-2228.6
	5	-13.45	-1.79	-1.61	-88.9	-237.8	348.2
SLD -	9	54.39	55.51	-0.85	-342.0	-296.9	-2907.0
	19	-0.00	-0.00	-0.00	-0.0	-0.0	-0.0
	109	25.32	-56.27	0.88	-926.6	-114.0	653.6
	105	-23.27	-53.80	0.60	-508.0	-63.9	698.4
	17	-105.91	-67.68	-4.62	-86.1	-142.0	-2598.5
	5	-16.72	-8.84	-2.38	-336.3	-313.1	-380.7
SLD +	9	114.58	206.77	3.58	124.6	-95.3	-2244.1
	19	0.00	0.00	0.00	0.0	0.0	0.0
	109	39.98	-52.03	4.73	-467.4	-92.3	1178.4
	105	1.70	-6.64	2.25	-12.7	-10.3	868.6
	17	-79.91	47.06	-3.35	294.3	60.9	-1858.8
	5	-10.17	5.26	-0.84	158.5	-162.6	1077.1
SLU Statiche -	12	106.82	155.74	0.38	446.6	327.5	-3640.5
	20	-0.00	0.00	0.00	-0.0	-0.0	0.0
	112	34.93	-54.95	-9.29	2083.0	341.6	1500.3
	108	-15.90	-39.15	-5.23	851.4	96.6	1041.3
	18	-117.20	-18.78	9.60	-72.3	-80.0	-3038.6
	8	-17.96	-11.08	2.77	431.3	437.8	510.2
SLU Statiche +	12	111.00	165.26	0.77	504.2	356.8	-3562.6
	20	-0.00	0.00	0.00	-0.0	-0.0	0.0
	112	40.06	-48.22	-8.21	2371.2	393.9	1741.8
	108	-12.64	-34.07	-4.55	970.8	109.8	1131.4
	18	-112.65	-17.30	10.79	-52.2	-48.2	-2982.6
	8	-16.45	-7.32	2.96	493.2	475.7	596.5
SLV -	12	12.21	-46.88	-3.74	-160.9	-24.0	-3255.7
	20	-0.00	-0.00	-0.00	-0.0	-0.0	-0.0
	112	9.74	-35.87	-9.18	867.7	188.5	582.1
	108	-33.01	-72.30	-4.56	95.0	-26.0	632.8
	18	-110.31	-128.05	5.44	-411.4	-199.6	-3116.6
	8	-18.74	-22.04	-0.36	-215.6	114.5	-1016.1
SLV +	12	139.52	266.58	3.94	751.9	476.8	-1819.6
	20	0.00	0.00	0.00	0.0	0.0	0.0
	112	36.01	-27.98	-1.64	1880.8	259.0	1354.2
	108	17.75	27.28	-1.52	1037.5	150.8	810.8
	18	-49.07	104.28	7.55	284.5	140.8	-1355.5
	8	-4.11	4.31	4.06	760.4	484.8	1933.6
SLE Rare -	12	80.40	117.68	0.30	336.0	247.6	-2722.3
	20	-0.00	0.00	0.00	-0.0	-0.0	0.0
	112	26.32	-40.89	-6.89	1570.0	257.9	1129.2
	108	-11.74	-29.16	-3.91	644.0	72.2	787.5
	18	-87.71	-14.02	7.27	-54.4	-62.3	-2280.3
	8	-13.47	-7.80	2.05	320.3	329.4	381.3
SLE Rare +	12	83.18	124.02	0.56	374.4	267.1	-2670.4
	20	-0.00	0.00	0.00	-0.0	-0.0	0.0
	112	29.74	-36.41	-6.17	1762.1	292.8	1290.2

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	108	-9.57	-25.78	-3.46	723.6	81.0	847.6
	18	-84.68	-13.03	8.06	-41.0	-41.1	-2243.0
	8	-12.47	-5.29	2.18	361.6	354.7	438.8
SLE Frequenti -	12	75.87	109.85	0.07	295.5	226.4	-2578.0
	20	-0.00	0.00	0.00	0.0	-0.0	0.0
	112	22.88	-33.72	-5.70	1374.3	223.4	968.1
	108	-8.50	-23.86	-3.22	565.4	62.4	721.8
	18	-80.90	-12.28	6.49	-65.6	-37.9	-2276.8
	8	-11.82	-9.59	1.85	272.4	299.7	435.8
SLE Frequenti +	12	76.98	112.39	0.21	310.9	234.2	-2537.6
	20	-0.00	0.00	0.00	0.0	-0.0	0.0
	112	24.24	-31.92	-5.41	1451.1	237.7	1032.5
	108	-7.51	-22.45	-3.02	598.1	66.0	745.9
	18	-79.69	-11.89	6.81	-58.1	-24.7	-2221.1
	8	-11.42	-7.86	1.90	288.9	309.8	477.6
SLE Quasi Permanenti -	12	75.87	109.85	0.10	295.5	226.4	-2537.6
	20	-0.00	0.00	0.00	0.0	-0.0	0.0
	112	22.88	-31.93	-5.41	1374.3	223.7	968.1
	108	-7.63	-22.51	-3.04	566.3	62.4	721.8
	18	-79.69	-11.89	6.50	-63.5	-29.4	-2236.0
	8	-11.42	-8.86	1.85	272.4	299.7	458.8
SLE Quasi Permanenti +	12	75.87	109.85	0.10	295.5	226.4	-2537.6
	20	-0.00	0.00	0.00	0.0	-0.0	0.0
	112	22.88	-31.93	-5.41	1374.3	223.7	968.1
	108	-7.63	-22.51	-3.04	566.3	62.4	721.8
	18	-79.69	-11.89	6.50	-63.5	-29.4	-2236.0
	8	-11.42	-8.86	1.85	272.4	299.7	458.8
SLD -	12	49.22	44.26	-1.54	101.9	121.7	-2844.3
	20	-0.00	-0.00	-0.00	-0.0	-0.0	-0.0
	112	17.37	-33.56	-7.01	1165.4	209.5	806.4
	108	-18.26	-43.35	-3.69	366.0	26.7	683.7
	18	-92.48	-60.52	6.05	-211.6	-102.2	-2603.9
	8	-14.52	-14.39	0.96	65.4	224.0	-158.6
SLD +	12	102.51	175.43	1.75	489.0	331.1	-2231.0
	20	0.00	0.00	0.00	0.0	0.0	0.0
	112	28.38	-30.29	-3.81	1583.1	238.0	1129.9
	108	3.00	-1.67	-2.40	766.5	98.2	759.9
	18	-66.90	36.74	6.95	84.7	43.4	-1868.1
	8	-8.32	-3.34	2.75	479.4	375.3	1076.1

Sollecitazioni nei setti

Convenzioni adottate

L'elemento parete viene individuato tramite il numero dei due nodi a numerazione più bassa cui fa capo l'elemento. La numerazione dei nodi e le convenzioni sulle sollecitazioni agenti nel setto sono le seguenti:



Dove:

F_x, F_y, F_z
forze, agenti nel generico nodo, in direzione degli assi locali **x**, **y**, **z**.

M_x, M_y, M_z
momenti agenti nel generico nodo ed aventi asse vettore concorde con gli assi locali **x**, **y**, **z**.

		Azioni via equilibrio					Azioni via tensioni	
		Nel Piano			FuoriPiano		Nel Piano	
Setto nodi	**Combinazione**	$N_{Base,Em}$ $N_{Top,Em}$ [kN]	$T_{Base,Em}$ $T_{Top,Em}$ [kN]	$M_{Base,Em}$ $M_{Top,Em}$ [kgm]	$T_{Base,Ef}$ $T_{Top,Ef}$ [kN]	$M_{Base,Ef}$ $M_{Top,Ef}$ [kgm]	$N_{Base,\sigma m}$ $N_{Top,\sigma m}$ [kN]	$M_{Base,\sigma m}$ $M_{Top,\sigma m}$ [kgm]
1 101 102 2	SLU Statiche -	126.89	58.37	-13333.6	-37.40	-5045.7	101.10	-6422.8
		-11.56	-51.60	-8034.2	-0.55	-0.0	0.00	0.0
	SLU Statiche +	128.53	59.41	-13163.1	-36.81	-4953.4	102.95	-6126.3
		-10.32	-49.76	-7481.5	0.28	-0.0	0.00	0.0
	SLV -	-49.69	0.49	-18599.7	-34.74	-4557.7	-57.65	-12222.3
		-71.38	-89.90	-12763.3	-6.02	-0.0	0.00	0.0
	SLV +	241.43	82.26	-736.3	-18.12	-2528.2	209.63	2686.1
		55.85	20.83	2565.0	4.45	-0.0	0.00	0.0
	SLE Rare -	96.89	43.61	-9961.2	-28.02	-3777.0	77.19	-4796.9
		-8.71	-38.31	-5966.4	-0.39	-0.0	0.00	0.0
	SLE Rare +	97.99	44.30	-9847.5	-27.63	-3715.5	78.42	-4599.2
		-7.89	-37.08	-5598.0	0.17	-0.0	0.00	0.0
	SLE Frequenti -	95.87	41.37	-9871.4	-26.83	-3598.4	75.99	-4881.3
		-7.79	-35.19	-5246.5	-0.87	-0.0	0.00	0.0
	SLE Frequenti +	96.32	42.14	-9622.5	-26.43	-3543.0	76.31	-4689.1
		-7.77	-34.53	-5099.1	-0.56	-0.0	0.00	0.0
	SLE Quasi Permanenti -	95.87	41.37	-9668.0	-26.43	-3543.0	75.99	-4768.1
		-7.77	-34.53	-5099.1	-0.79	-0.0	0.00	0.0
	SLE Quasi Permanenti +	95.87	41.37	-9668.0	-26.43	-3543.0	75.99	-4768.1
		-7.77	-34.53	-5099.1	-0.79	-0.0	0.00	0.0
	SLD -	37.06	23.82	-13434.3	-29.97	-3974.0	21.93	-7782.0
		-33.42	-57.69	-8297.8	-2.97	-0.0	0.00	0.0
	SLD +	154.68	58.93	-5901.6	-22.88	-3111.9	130.05	-1754.3
		17.89	-11.38	-1900.5	1.40	-0.0	0.00	0.0
2 102 103 3	SLU Statiche -	58.45	1.32	-167.7	2.65	-831.3	45.82	13.7
		-43.12	-9.75	-1334.6	21.60	-0.0	0.00	0.0
	SLU Statiche +	63.76	1.55	-143.7	3.28	-716.8	50.54	16.7
		-36.29	-8.92	-1221.8	23.67	-0.0	0.00	0.0
	SLV -	-5.83	-50.73	-7037.2	-0.42	-1146.2	-27.24	-1110.0
		-41.74	-83.26	-9580.9	13.24	-0.0	0.00	0.0
	SLV +	97.26	52.40	6854.0	5.97	267.0	101.34	1126.6

		-6.52	70.81	7877.1	16.25	-0.0	0.00	0.0
	SLE Rare -	46.52	0.99	-123.9	2.07	-605.7	37.12	10.3
		-32.41	-7.33	-1003.0	16.28	-0.0	0.00	0.0
	SLE Rare +	50.06	1.14	-107.9	2.49	-529.3	40.27	12.3
		-27.85	-6.78	-927.8	17.67	-0.0	0.00	0.0
	SLE Frequenti -	44.35	0.83	-98.0	2.61	-470.1	35.52	8.3
		-25.95	-6.44	-882.0	14.75	-0.0	0.00	0.0
	SLE Frequenti +	47.13	0.90	-91.6	2.84	-439.6	38.31	9.1
		-23.71	-6.22	-851.9	15.30	-0.0	0.00	0.0
	SLE Quasi Permanenti -	45.72	0.83	-91.6	2.77	-439.6	37.05	8.3
		-24.13	-6.22	-851.9	14.75	-0.0	0.00	0.0
	SLE Quasi Permanenti +	45.72	0.83	-91.6	2.77	-439.6	37.05	8.3
		-24.13	-6.22	-851.9	14.75	-0.0	0.00	0.0
	SLD -	24.26	-21.22	-3061.3	1.44	-733.7	10.29	-465.2
		-31.46	-38.92	-4555.7	14.12	-0.0	0.00	0.0
	SLD +	67.17	22.89	2878.1	4.11	-145.5	63.81	481.8
		-16.80	26.47	2851.9	15.37	-0.0	0.00	0.0
3 103 104 4	SLU Statiche -	112.93	-58.85	12214.3	-30.80	-4284.8	87.97	5236.9
		-9.29	48.21	8083.8	4.84	-0.0	0.00	0.0
	SLU Statiche +	114.11	-57.97	12470.3	-30.73	-4267.4	88.74	5599.3
		-8.34	49.70	8648.4	6.29	-0.0	0.00	0.0
	SLV -	-21.39	-81.41	232.0	-30.63	-4087.3	-35.47	-1073.7
		-53.05	-20.64	-1999.1	-2.01	-0.0	0.00	0.0
	SLV +	194.36	-0.97	17904.4	-14.01	-2060.0	169.00	9444.9
		40.72	87.85	13106.4	7.77	-0.0	0.00	0.0
	SLE Rare -	86.34	-43.90	9134.5	-23.08	-3207.4	67.21	3928.7
		-6.98	35.92	6060.2	3.69	-0.0	0.00	0.0
	SLE Rare +	87.12	-43.32	9305.2	-23.03	-3195.8	67.72	4170.3
		-6.35	36.92	6436.6	4.66	-0.0	0.00	0.0
	SLE Frequenti -	86.28	-41.96	8999.9	-22.72	-3129.0	66.73	4089.0
		-6.21	33.61	5553.6	2.80	-0.0	0.00	0.0
	SLE Frequenti +	86.94	-41.19	9272.0	-22.30	-3073.7	67.08	4298.7
		-6.16	34.26	5704.2	3.27	-0.0	0.00	0.0
	SLE Quasi Permanenti -	86.49	-41.19	9068.2	-22.32	-3073.7	66.76	4185.6
		-6.16	33.61	5553.6	2.88	-0.0	0.00	0.0
	SLE Quasi Permanenti +	86.49	-41.19	9068.2	-22.32	-3073.7	66.76	4185.6
		-6.16	33.61	5553.6	2.88	-0.0	0.00	0.0
	SLD -	40.29	-58.17	5310.4	-25.87	-3508.1	22.98	1934.2
		-25.83	10.99	2404.6	0.85	-0.0	0.00	0.0
	SLD +	132.69	-24.21	12826.0	-18.77	-2639.2	110.55	6437.1
		13.51	56.23	8702.6	4.92	-0.0	0.00	0.0
5 105 101 1	SLU Statiche -	77.14	-70.18	9859.3	-10.01	-1307.2	54.52	1929.3
		-45.58	-47.14	-4091.8	1.73	-0.0	0.00	0.0
	SLU Statiche +	79.47	-66.91	10110.0	-9.49	-1249.3	57.89	2060.8
		-43.12	-41.85	-3615.6	2.56	-0.0	0.00	0.0
	SLV -	-24.88	-100.01	-1745.7	-15.31	-2113.8	-55.01	-1123.9
		-42.45	-112.69	-11301.0	-10.29	-0.0	0.00	0.0
	SLV +	138.50	5.45	15883.1	0.25	163.3	134.32	4243.7
		-18.57	57.05	6526.0	11.96	-0.0	0.00	0.0
	SLE Rare -	58.78	-52.58	7418.1	-7.51	-978.9	41.73	1456.1
		-34.20	-35.05	-3038.0	1.31	-0.0	0.00	0.0
	SLE Rare +	60.34	-50.41	7585.3	-7.15	-940.3	43.97	1543.7
		-32.56	-31.52	-2720.5	1.86	-0.0	0.00	0.0
	SLE Frequenti -	56.81	-48.15	7068.7	-7.69	-996.4	39.57	1524.8
		-31.14	-29.23	-2514.5	0.79	-0.0	0.00	0.0
	SLE Frequenti +	57.43	-47.28	7159.8	-7.39	-959.8	40.55	1595.6
		-30.51	-27.82	-2387.5	1.06	-0.0	0.00	0.0
	SLE Quasi Permanenti -	56.81	-47.28	7068.7	-7.53	-975.3	39.66	1559.9

		-30.51	-27.82	-2387.5	0.83	-0.0	0.00	0.0
	SLE Quasi Permanenti +	56.81	-47.28	7068.7	-7.53	-975.3	39.66	1559.9
		-30.51	-27.82	-2387.5	0.83	-0.0	0.00	0.0
	SLD -	23.79	-68.52	3519.9	-10.68	-1436.7	1.50	476.9
		-35.55	-61.98	-5975.5	-3.64	-0.0	0.00	0.0
	SLD +	89.83	-26.04	10617.5	-4.38	-513.9	77.81	2642.8
		-25.47	6.34	1200.4	5.31	-0.0	0.00	0.0
8 108 104 4	SLU Statiche -	57.32	-61.47	9002.2	8.65	1250.1	34.30	1979.5
		-21.37	-43.40	-3860.0	-6.92	-0.0	0.00	0.0
	SLU Statiche +	57.69	-59.29	9143.1	9.14	1292.3	35.32	2094.5
		-20.85	-38.89	-3447.5	-5.82	-0.0	0.00	0.0
	SLV -	-14.25	-84.43	-309.9	1.22	123.3	-39.48	-303.3
		-26.98	-97.47	-9824.1	-13.10	-0.0	0.00	0.0
	SLV +	100.77	-0.05	13297.3	12.46	1782.3	91.29	3450.0
		-3.11	45.21	5213.4	5.57	-0.0	0.00	0.0
	SLE Rare -	43.76	-46.10	6770.0	6.51	938.2	26.41	1491.4
		-16.00	-32.32	-2871.9	-5.15	-0.0	0.00	0.0
	SLE Rare +	44.01	-44.65	6863.9	6.83	966.3	27.09	1568.1
		-15.65	-29.32	-2596.9	-4.42	-0.0	0.00	0.0
	SLE Frequenti -	43.26	-42.82	6493.7	6.71	941.5	25.82	1542.7
		-15.28	-27.34	-2415.4	-4.06	-0.0	0.00	0.0
	SLE Frequenti +	43.47	-42.24	6584.9	7.00	973.6	26.17	1609.0
		-15.04	-26.13	-2305.3	-3.73	-0.0	0.00	0.0
	SLE Quasi Permanenti -	43.26	-42.24	6493.7	6.84	952.8	25.90	1573.3
		-15.04	-26.13	-2305.3	-3.76	-0.0	0.00	0.0
	SLE Quasi Permanenti +	43.26	-42.24	6493.7	6.84	952.8	25.90	1573.3
		-15.04	-26.13	-2305.3	-3.76	-0.0	0.00	0.0
	SLD -	18.64	-59.90	3644.0	4.43	598.1	-1.52	769.8
		-20.10	-55.99	-5451.6	-7.67	-0.0	0.00	0.0
	SLD +	67.88	-24.58	9343.3	9.24	1307.5	53.33	2376.9
		-9.99	3.72	840.9	0.14	-0.0	0.00	0.0
9 109 105 5	SLU Statiche -	187.35	100.18	-17887.5	-0.78	-358.4	116.30	-5759.7
		-145.50	32.58	5275.9	6.38	-0.0	0.00	0.0
	SLU Statiche +	206.45	104.09	-17062.5	-0.57	-318.0	131.31	-5389.2
		-127.45	36.14	6019.0	7.23	-0.0	0.00	0.0
	SLV -	-75.37	-9.58	-26161.1	-5.48	-1379.2	-124.84	-8462.5
		-146.60	-27.33	-1456.9	-2.54	-0.0	0.00	0.0
	SLV +	334.07	151.66	2099.4	4.99	984.0	283.26	957.9
		-22.15	71.07	8385.6	10.99	-0.0	0.00	0.0
	SLE Rare -	142.12	75.35	-13390.6	-0.54	-260.4	88.48	-4307.5
		-108.31	24.50	3972.4	4.81	-0.0	0.00	0.0
	SLE Rare +	154.86	77.95	-12840.6	-0.40	-233.5	98.49	-4060.5
		-96.28	26.88	4467.8	5.38	-0.0	0.00	0.0
	SLE Frequenti -	129.35	71.04	-12250.9	-0.30	-208.4	78.84	-3851.1
		-89.19	21.87	3464.4	4.23	-0.0	0.00	0.0
	SLE Frequenti +	134.44	72.08	-12030.9	-0.24	-197.6	83.21	-3752.3
		-84.31	22.82	3662.5	4.46	-0.0	0.00	0.0
	SLE Quasi Permanenti -	129.35	71.04	-12030.9	-0.24	-197.6	79.21	-3752.3
		-84.38	21.87	3464.4	4.23	-0.0	0.00	0.0
	SLE Quasi Permanenti +	129.35	71.04	-12030.9	-0.24	-197.6	79.21	-3752.3
		-84.38	21.87	3464.4	4.23	-0.0	0.00	0.0
	SLD -	46.96	38.59	-17717.7	-2.38	-678.3	-2.95	-5647.8
		-109.42	2.07	1483.5	1.48	-0.0	0.00	0.0
	SLD +	211.74	103.49	-6344.1	1.89	283.1	161.37	-1856.9
		-59.33	41.67	5445.3	6.98	-0.0	0.00	0.0
12 112 108 8	SLU Statiche -	144.66	90.37	-15858.0	3.16	877.9	81.68	-5017.7
		-94.10	22.29	3585.1	-14.52	-0.0	0.00	0.0
	SLU Statiche +	157.93	93.04	-15269.3	3.73	997.4	92.00	-4739.7

	-82.29	24.16	4038.2	-12.76	-0.0	0.00	0.0
SLV -	-68.65	-4.45	-22758.2	-2.37	-376.4	-112.54	-7195.4
	-107.92	-23.26	-1476.3	-13.72	-0.0	0.00	0.0
SLV +	270.62	133.34	1090.5	6.27	1512.1	224.87	547.2
	-0.95	53.75	6245.1	-3.18	-0.0	0.00	0.0
SLE Rare -	109.88	67.93	-11878.2	2.35	656.3	62.33	-3755.8
	-70.05	16.75	2700.5	-10.80	-0.0	0.00	0.0
SLE Rare +	118.73	69.71	-11485.7	2.74	736.0	69.21	-3570.4
	-62.18	18.00	3002.5	-9.63	-0.0	0.00	0.0
SLE Frequenti -	100.98	64.45	-10990.8	1.95	567.9	55.80	-3398.2
	-57.58	15.25	2384.4	-8.92	-0.0	0.00	0.0
SLE Frequenti +	104.52	65.30	-10833.8	2.11	599.7	58.92	-3324.1
	-54.38	15.75	2505.2	-8.45	-0.0	0.00	0.0
SLE Quasi Permanenti -	100.98	64.45	-10833.8	1.95	567.9	56.16	-3324.1
	-54.44	15.25	2384.4	-8.45	-0.0	0.00	0.0
SLE Quasi Permanenti +	100.98	64.45	-10833.8	1.95	567.9	56.16	-3324.1
	-54.44	15.25	2384.4	-8.45	-0.0	0.00	0.0
SLD -	29.98	35.62	-15823.8	0.13	167.4	-14.43	-4944.9
	-76.81	-0.88	767.6	-10.69	-0.0	0.00	0.0
SLD +	171.99	93.27	-5843.8	3.78	968.4	126.76	-1703.2
	-32.06	31.38	4001.2	-6.21	-0.0	0.00	0.0

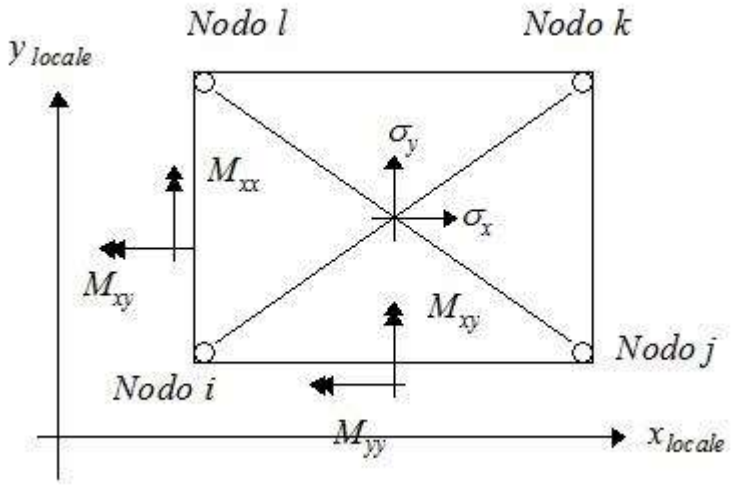
Sollecitazioni negli elementi a 4 nodi

Convenzioni adottate

Nel seguito sono riportate le sollecitazioni indotte negli elementi a 4 nodi sia come sollecitazioni in corrispondenza dei nodi che come tensioni e momenti medi valutati nel centro dell'elemento. Per una dettagliata spiegazione sui presupposti teorici, il campo di applicazione e le modalità di impiego si rimanda all'apposito capitolo del manuale teorico in dotazione al programma.

Il sistema di riferimento locale dell'elemento risulta essere cosi diposto:

- L'asse **x** locale sulla congiungente i nodi **i** e **j** da **i** verso **j**.
- L'asse **y** locale sulla congiungente i nodi **i** e **l** da **i** verso **l**.
- L'asse **z** locale e ottenuto per prodotto vettoriale fra $\mathbf{x}_{locale}$ e $\mathbf{y}_{locale}$.
- Le tensioni medie nell'elemento (σ_x, σ_y, τ_{xy}) e i momenti medi ($\mathbf{M}_x$, $\mathbf{M}_y$, $\mathbf{M}_{xy}$) sono anch'essi da intendersi diretti lungo le direzioni sopra citate.



Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
4 7	SLU Statiche -	0.3	0.7	0.0	0.3	0.7	-4.69
	SLU Statiche +	0.3	0.7	0.0	0.3	0.7	-4.51
	SLV -	0.1	0.2	-0.5	-0.3	0.4	-38.72
	SLV +	0.4	0.8	0.5	0.3	1.0	38.13
	SLE Rare -	0.3	0.5	0.0	0.3	0.5	-4.77
	SLE Rare +	0.3	0.5	0.0	0.3	0.5	-4.61
	SLE Frequenti -	0.2	0.5	0.0	0.2	0.5	-4.67
	SLE Frequenti +	0.2	0.5	0.0	0.2	0.5	-4.53
	SLE Quasi Permanenti -	0.2	0.5	0.0	0.2	0.5	-4.61
	SLE Quasi Permanenti +	0.2	0.5	0.0	0.2	0.5	-4.61
	SLD -	0.2	0.4	-0.2	0.1	0.4	-30.27
	SLD +	0.3	0.6	0.2	0.3	0.7	27.50
6 3	SLU Statiche -	0.7	0.0	-0.0	0.7	0.0	-2.88
	SLU Statiche +	0.7	0.0	-0.0	0.7	0.0	-2.56
	SLV -	0.0	-0.2	-0.3	0.1	-0.4	-32.92
	SLV +	1.0	0.3	0.3	1.0	0.3	22.50
	SLE Rare -	0.5	0.0	-0.0	0.5	0.0	-2.87
	SLE Rare +	0.5	0.0	-0.0	0.5	0.0	-2.59
	SLE Frequenti -	0.5	0.0	-0.0	0.5	0.0	-2.51
	SLE Frequenti +	0.5	0.0	-0.0	0.5	0.0	-2.35
	SLE Quasi Permanenti -	0.5	0.0	-0.0	0.5	0.0	-2.40
	SLE Quasi Permanenti +	0.5	0.0	-0.0	0.5	0.0	-2.40
	SLD -	0.3	-0.1	-0.2	0.3	-0.1	-17.01
	SLD +	0.7	0.1	0.1	0.7	0.1	13.16
2 5	SLU Statiche -	0.8	0.4	-0.0	0.8	0.4	-2.38
	SLU Statiche +	0.8	0.4	-0.0	0.8	0.4	-2.23
	SLV -	0.4	0.2	-0.6	0.4	-0.3	-38.77
	SLV +	0.7	0.4	0.6	1.1	0.4	38.04
	SLE Rare -	0.6	0.3	-0.0	0.6	0.3	-2.43
	SLE Rare +	0.6	0.3	-0.0	0.6	0.3	-2.29
	SLE Frequenti -	0.6	0.3	-0.0	0.6	0.3	-2.44
	SLE Frequenti +	0.6	0.3	-0.0	0.6	0.3	-2.39
	SLE Quasi Permanenti -	0.6	0.3	-0.0	0.6	0.3	-2.43
	SLE Quasi Permanenti +	0.6	0.3	-0.0	0.6	0.3	-2.43
	SLD -	0.5	0.2	-0.2	0.5	0.1	-30.73
	SLD +	0.6	0.3	0.2	0.7	0.3	29.06
8 11	SLU Statiche -	0.2	0.2	-0.2	0.4	0.0	-43.75
	SLU Statiche +	0.3	0.2	-0.2	0.5	0.0	-43.19
	SLV -	0.1	-0.0	-0.7	-0.2	-0.7	-44.82
	SLV +	0.2	0.3	0.5	0.8	0.7	44.18
	SLE Rare -	0.2	0.2	-0.2	0.3	0.0	-43.66
	SLE Rare +	0.2	0.2	-0.1	0.3	0.0	-43.15
	SLE Frequenti -	0.2	0.2	-0.1	0.3	0.0	-42.88
	SLE Frequenti +	0.2	0.2	-0.1	0.3	0.0	-42.62
	SLE Quasi Permanenti -	0.2	0.2	-0.1	0.3	0.0	-42.65
	SLE Quasi Permanenti +	0.2	0.2	-0.1	0.3	0.0	-42.65
	SLD -	0.2	0.1	-0.4	-0.0	-0.3	-44.85
	SLD +	0.2	0.2	0.1	0.5	0.4	44.84
10 7	SLU Statiche -	0.0	-0.0	-0.0	0.0	-0.0	-21.10
	SLU Statiche +	0.0	-0.0	-0.0	0.1	-0.0	-19.35
	SLV -	-0.4	-0.2	-0.4	-0.6	-0.3	-42.77

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
	SLV +	0.4	0.1	0.3	0.6	0.2	42.36
	SLE Rare -	0.0	-0.0	-0.0	0.0	-0.0	-20.88
	SLE Rare +	0.0	-0.0	-0.0	0.0	-0.0	-19.34
	SLE Frequenti -	0.0	-0.0	-0.0	0.0	-0.0	-18.66
	SLE Frequenti +	0.0	-0.0	-0.0	0.0	-0.0	-17.83
	SLE Quasi Permanenti -	0.0	-0.0	-0.0	0.0	-0.0	-17.98
	SLE Quasi Permanenti +	0.0	-0.0	-0.0	0.0	-0.0	-17.98
	SLD -	-0.1	-0.1	-0.2	-0.2	-0.2	-44.77
	SLD +	0.2	0.0	0.1	0.3	0.1	44.61
6 9	SLU Statiche -	0.3	0.2	0.2	0.5	0.1	40.60
	SLU Statiche +	0.3	0.2	0.2	0.5	0.1	40.94
	SLV -	0.2	-0.0	-0.6	-0.3	-0.7	-44.10
	SLV +	0.3	0.3	0.9	1.0	0.8	44.02
	SLE Rare -	0.2	0.2	0.1	0.3	0.0	40.57
	SLE Rare +	0.2	0.2	0.2	0.4	0.0	40.87
	SLE Frequenti -	0.2	0.2	0.1	0.3	0.0	40.24
	SLE Frequenti +	0.2	0.2	0.1	0.3	0.0	40.39
	SLE Quasi Permanenti -	0.2	0.2	0.1	0.3	0.0	40.25
	SLE Quasi Permanenti +	0.2	0.2	0.1	0.3	0.0	40.25
	SLD -	0.2	0.1	-0.2	0.2	-0.3	-44.36
	SLD +	0.2	0.2	0.4	0.6	0.3	44.94
104 107	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
107 102	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
102 105	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
106 109	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
110 117	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
107 110	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
111 118	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
108 111	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
112 119	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
101 114	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00
105 115	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
109 116	SLU Statiche -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLU Statiche +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLV +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Rare +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Frequenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLE Quasi Permanenti +	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD -	0.0	0.0	0.0	0.0	0.0	-0.00
	SLD +	0.0	0.0	0.0	0.0	0.0	-0.00

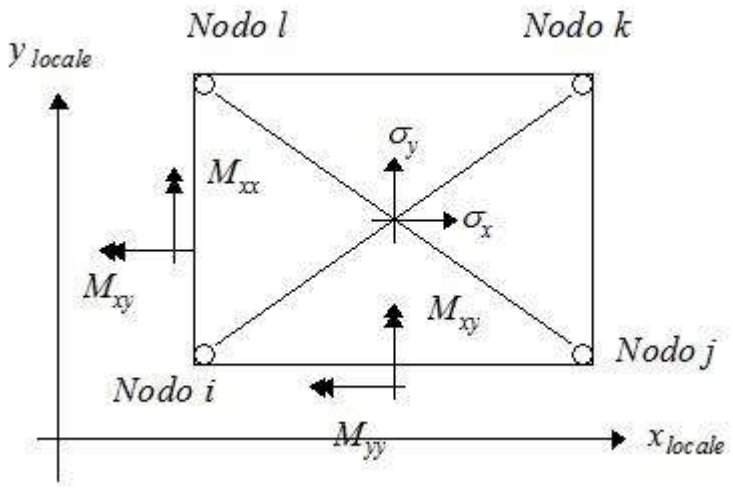
Sollecitazioni negli elementi a 4 nodi

Convenzioni adottate

Nel seguito sono riportate le sollecitazioni indotte negli elementi a 4 nodi sia come sollecitazioni in corrispondenza dei nodi che come tensioni e momenti medi valutati nel centro dell'elemento. Per una dettagliata spiegazione sui presupposti teorici, il campo di applicazione e le modalità di impiego si rimanda all'apposito capitolo del manuale teorico in dotazione al programma.

Il sistema di riferimento locale dell'elemento risulta essere cosi diposto:

- L'asse **x** locale sulla congiungente i nodi **i** e **j** da **i** verso **j**.
- L'asse **y** locale sulla congiungente i nodi **i** e **l** da **i** verso **l**.
- L'asse **z** locale e ottenuto per prodotto vettoriale fra $\mathbf{x}_{locale}$ e $\mathbf{y}_{locale}$.
- Le tensioni medie nell'elemento (σ_x, σ_y, τ_{xy}) e i momenti medi ($\mathbf{M}_x$, $\mathbf{M}_y$, $\mathbf{M}_{xy}$) sono anch'essi da intendersi diretti lungo le direzioni sopra citate.



Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
4 7	SLU Statiche -	-532.67	-106.70	48.78	-4496.1	-762.4	-543.48	-97.42	-8.94
	SLU Statiche +	-531.55	-102.13	68.72	-4438.0	-736.3	-537.02	-95.88	-6.40
	SLV -	-646.61	-104.69	-228.86	-3789.3	-1419.2	-669.93	-56.40	-42.93
	SLV +	-120.08	-54.89	326.98	-2508.3	422.2	-272.37	190.51	30.84

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLE Rare -	-398.01	-80.02	33.29	-3350.8	-560.3	-404.69	-74.17	-8.17
	SLE Rare +	-397.26	-76.98	46.58	-3312.1	-542.9	-400.68	-73.34	-5.87
	SLE Frequenti -	-391.05	-81.42	43.75	-3211.1	-512.0	-400.35	-72.41	-9.69
	SLE Frequenti +	-383.05	-78.57	54.47	-3148.8	-498.5	-389.21	-72.05	-8.02
	SLE Quasi Permanenti -	-383.35	-79.79	49.06	-3148.8	-498.5	-391.08	-72.05	-8.96
	SLE Quasi Permanenti +	-383.35	-79.79	49.06	-3148.8	-498.5	-391.08	-72.05	-8.96
	SLD -	-493.03	-90.35	-69.88	-3415.8	-890.9	-493.14	-89.02	-28.00
	SLD +	-273.66	-69.22	168.01	-2881.8	-106.1	-315.46	5.31	13.06
6 3	SLU Statiche -	173.16	890.34	1.82	51.0	-4677.5	173.16	890.34	-0.22
	SLU Statiche +	183.98	893.08	2.72	59.9	-4632.6	183.97	893.09	-0.15
	SLV -	74.23	197.08	-339.68	-611.0	-4434.5	-123.77	271.38	-43.18
	SLV +	186.64	1076.24	343.96	676.1	-2153.1	150.94	1116.03	25.87
	SLE Rare -	126.98	664.55	1.49	38.4	-3455.4	126.98	664.55	-0.22
	SLE Rare +	134.19	666.38	2.10	44.3	-3425.4	134.19	666.38	-0.16
	SLE Frequenti -	127.55	636.66	2.01	32.5	-3389.6	127.54	636.67	-0.24
	SLE Frequenti +	135.92	649.69	2.15	34.9	-3281.8	135.91	649.70	-0.23
	SLE Quasi Permanenti -	130.43	636.66	2.14	32.5	-3293.8	130.43	636.67	-0.24
	SLE Quasi Permanenti +	130.43	636.66	2.14	32.5	-3293.8	130.43	636.67	-0.24
	SLD -	107.04	453.71	-138.42	-238.8	-3768.6	86.80	455.90	-18.64
	SLD +	153.83	819.61	142.71	303.9	-2819.1	151.64	820.87	14.37
2 5	SLU Statiche -	94.00	523.84	30.21	-658.9	4754.9	91.88	525.95	-6.96
	SLU Statiche +	99.15	525.81	52.84	-646.2	4856.1	93.00	532.26	-4.00
	SLV -	49.50	114.53	-368.68	-1788.7	2721.2	-318.89	226.86	-43.64
	SLV +	99.47	643.02	446.56	910.7	3997.6	99.42	770.45	31.07
	SLE Rare -	70.86	391.52	19.57	-483.3	3551.4	69.67	392.71	-6.14
	SLE Rare +	74.30	392.84	34.66	-474.8	3618.9	70.57	396.57	-3.48
	SLE Frequenti -	73.11	378.25	32.91	-452.7	3359.4	69.58	381.76	-7.97
	SLE Frequenti +	76.11	386.47	44.34	-439.0	3421.7	69.90	392.68	-6.09
	SLE Quasi Permanenti -	74.49	378.78	38.94	-439.0	3359.4	69.58	383.68	-7.18
	SLE Quasi Permanenti +	74.49	378.78	38.94	-439.0	3359.4	69.58	383.68	-7.18
	SLD -	63.77	268.78	-125.56	-984.9	3093.1	-43.79	310.32	-30.69
	SLD +	85.21	488.77	203.44	106.8	3625.7	84.68	497.33	16.51
8 11	SLU Statiche -	-645.89	-93.60	-194.56	4472.7	67.8	-706.92	-38.92	16.78
	SLU Statiche +	-640.47	-86.63	-181.36	4509.1	193.1	-695.15	-25.60	17.41
	SLV -	-615.63	-214.73	-362.50	1559.1	-2774.4	-709.93	-207.17	-13.51
	SLV +	-289.54	74.98	107.71	4830.2	2886.9	-339.73	203.57	33.16
	SLE Rare -	-480.12	-69.46	-146.10	3342.1	83.0	-526.36	-27.48	17.00
	SLE Rare +	-476.50	-64.81	-137.30	3366.4	166.5	-518.48	-18.56	17.56
	SLE Frequenti -	-462.74	-71.99	-130.91	3194.7	27.8	-500.90	-33.83	16.61
	SLE Frequenti +	-452.59	-68.02	-127.39	3256.2	89.6	-491.11	-27.81	17.07
	SLE Quasi Permanenti -	-452.59	-69.88	-127.39	3194.7	56.2	-491.11	-31.35	16.83
	SLE Quasi Permanenti +	-452.59	-69.88	-127.39	3194.7	56.2	-491.11	-31.35	16.83
	SLD -	-520.36	-128.77	-227.96	2512.2	-1155.4	-576.90	-106.13	3.82
	SLD +	-384.81	-10.99	-26.82	3877.1	1267.8	-417.48	57.40	25.76
10 7	SLU Statiche -	124.32	894.53	1.78	171.0	4619.7	124.32	894.54	-0.17
	SLU Statiche +	152.56	903.10	2.23	191.9	4631.1	152.55	903.10	-0.13
	SLV -	-251.34	252.15	-272.99	-1059.3	2325.7	-311.47	259.55	-22.55
	SLV +	467.69	1022.53	276.22	1290.2	4220.0	460.25	1074.23	23.54
	SLE Rare -	87.99	662.06	1.40	129.4	3434.2	87.99	662.07	-0.17
	SLE Rare +	106.82	667.77	1.70	143.3	3441.8	106.81	667.77	-0.14
	SLE Frequenti -	100.65	635.06	1.57	115.5	3272.9	100.64	635.06	-0.17

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLE Frequenti +	116.91	655.41	1.61	121.0	3349.7	116.90	655.42	-0.17
	SLE Quasi Permanenti -	108.18	637.34	1.61	115.5	3272.9	108.17	637.35	-0.17
	SLE Quasi Permanenti +	108.18	637.34	1.61	115.5	3272.9	108.17	637.35	-0.17
	SLD -	-41.45	477.03	-111.13	-381.9	2878.7	-42.52	478.10	-11.55
	SLD +	257.81	797.66	114.35	612.8	3667.1	257.04	798.42	11.52
6 9	SLU Statiche -	-680.97	-81.05	179.85	4693.0	-622.1	-737.60	-30.54	-16.28
	SLU Statiche +	-670.87	-73.26	193.97	4756.3	-442.6	-721.39	-16.63	-15.69
	SLV -	-639.31	-182.51	-225.85	1608.8	-4353.0	-749.81	-160.29	-34.67
	SLV +	-305.48	60.69	476.94	5078.0	3747.1	-345.89	307.74	22.13
	SLE Rare -	-506.14	-59.92	136.06	3508.8	-485.4	-548.96	-21.21	-16.40
	SLE Rare +	-499.41	-54.72	145.47	3551.0	-365.8	-538.12	-11.91	-15.88
	SLE Frequenti -	-482.54	-63.01	125.54	3343.4	-350.8	-517.52	-28.03	-15.93
	SLE Frequenti +	-472.40	-58.84	129.31	3405.0	-274.5	-507.67	-21.94	-15.51
	SLE Quasi Permanenti -	-472.40	-60.91	125.54	3343.4	-303.0	-507.67	-25.63	-15.70
	SLE Quasi Permanenti +	-472.40	-60.91	125.54	3343.4	-303.0	-507.67	-25.63	-15.70
	SLD -	-542.18	-113.26	-16.26	2640.1	-1940.5	-597.11	-102.51	-26.90
	SLD +	-402.61	-8.57	267.35	4046.7	1334.6	-434.12	91.45	2.15
104 107	SLU Statiche -	423.28	94.07	549.05	-390.6	-292.0	831.87	-357.67	36.65
	SLU Statiche +	482.70	107.48	625.21	-353.8	-253.6	947.84	-314.51	36.77
	SLV -	251.85	17.35	279.44	-636.5	-531.4	475.98	-275.81	31.35
	SLV +	305.72	108.57	450.35	137.4	197.8	636.23	-152.92	40.48
	SLE Rare -	319.02	71.38	415.03	-294.4	-217.3	628.31	-266.67	36.68
	SLE Rare +	358.63	80.32	465.80	-269.8	-191.7	705.62	-237.90	36.79
	SLE Frequenti -	278.78	62.70	364.58	-258.2	-177.0	551.19	-221.16	36.73
	SLE Frequenti +	294.63	66.53	385.21	-248.9	-166.4	582.32	-209.39	36.76
	SLE Quasi Permanenti -	278.78	62.96	364.90	-249.6	-166.8	551.39	-209.65	36.76
	SLE Quasi Permanenti +	278.78	62.96	364.90	-249.6	-166.8	551.39	-209.65	36.76
	SLD -	267.93	44.26	329.97	-410.9	-318.9	518.99	-235.75	34.80
	SLD +	289.64	81.65	399.83	-88.3	-14.7	585.32	-185.08	38.44
107 102	SLU Statiche -	-376.48	704.40	54.83	-7.8	1671.8	-379.68	707.30	-3.04
	SLU Statiche +	-331.58	803.81	61.52	-7.3	1861.8	-334.47	807.01	-2.98
	SLV -	-246.40	445.96	-106.49	-276.5	995.6	-258.83	448.95	-14.09
	SLV +	-198.40	479.08	180.58	265.0	1275.4	-202.37	517.74	8.51
	SLE Rare -	-281.21	530.41	41.50	-5.8	1264.6	-283.61	532.61	-3.05
	SLE Rare +	-251.27	596.68	45.95	-5.5	1391.3	-253.47	599.08	-2.99
	SLE Frequenti -	-234.38	462.52	37.04	-5.9	1135.5	-236.45	464.52	-3.09
	SLE Frequenti +	-221.87	489.03	38.83	-5.6	1186.2	-223.86	491.11	-3.06
	SLE Quasi Permanenti -	-222.40	462.52	37.05	-5.7	1135.5	-224.40	464.52	-3.09
	SLE Quasi Permanenti +	-222.40	462.52	37.05	-5.7	1135.5	-224.40	464.52	-3.09
	SLD -	-232.39	455.62	-21.88	-121.3	1077.3	-234.07	457.17	-7.87
	SLD +	-212.41	469.42	95.97	109.8	1193.8	-215.02	479.80	1.82
102 105	SLU Statiche -	333.47	190.85	-556.44	-274.0	496.8	755.68	-264.04	-40.99
	SLU Statiche +	380.87	216.06	-488.35	-247.1	557.5	860.97	-231.37	-40.79
	SLV -	198.55	86.06	-398.26	-491.4	-41.1	407.73	-209.99	-43.63
	SLV +	239.12	170.55	-250.56	140.3	711.9	597.03	-102.11	-37.07
	SLE Rare -	251.12	144.61	-414.56	-206.7	375.9	570.85	-196.90	-41.02
	SLE Rare +	282.73	161.41	-369.16	-188.7	416.3	641.04	-175.12	-40.84
	SLE Frequenti -	218.84	128.06	-342.57	-181.3	335.4	500.90	-162.70	-41.03
	SLE Frequenti +	231.48	135.03	-324.09	-175.0	351.6	529.20	-153.66	-40.99
	SLE Quasi Permanenti -	218.84	128.31	-324.41	-175.6	335.4	501.13	-153.98	-41.03
	SLE Quasi Permanenti +	218.84	128.31	-324.41	-175.6	335.4	501.13	-153.98	-41.03

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLD -	210.27	110.92	-355.21	-307.0	181.8	462.11	-177.36	-42.25
	SLD +	227.40	145.69	-293.62	-44.1	489.0	540.55	-131.33	-39.57
106 109	SLU Statiche -	4.38	411.45	-684.80	25.4	878.2	-478.04	839.35	35.52
	SLU Statiche +	19.20	465.07	-596.62	28.6	981.9	-420.42	962.30	35.98
	SLV -	-31.11	146.76	-469.60	-127.1	398.5	-318.95	397.89	32.98
	SLV +	24.36	404.73	-313.48	168.1	797.6	-244.00	709.45	38.74
	SLE Rare -	2.44	311.21	-508.86	19.8	665.9	-356.03	633.35	35.48
	SLE Rare +	12.32	346.96	-450.08	21.9	735.0	-317.63	715.30	35.90
	SLE Frequenti -	-3.37	275.61	-415.05	20.4	597.4	-294.80	551.66	35.19
	SLE Frequenti +	-0.25	290.04	-391.42	20.5	625.7	-279.39	584.60	35.36
	SLE Quasi Permanenti -	-3.37	275.75	-391.54	20.5	598.1	-279.48	551.85	35.19
	SLE Quasi Permanenti +	-3.37	275.75	-391.54	20.5	598.1	-279.48	551.85	35.19
	SLD -	-15.24	222.76	-423.57	-40.0	517.0	-295.35	486.76	34.16
	SLD +	8.49	328.74	-359.51	80.9	679.2	-264.26	617.20	36.43
110 117	SLU Statiche -	184.29	487.55	-513.07	-950.5	4835.7	-154.28	804.58	35.41
	SLU Statiche +	219.86	549.29	-443.45	-796.5	5536.0	-132.74	923.44	36.10
	SLV -	73.75	143.79	-382.27	-575.8	2929.1	-89.90	305.26	32.56
	SLV +	154.73	509.43	-193.34	-412.4	3434.1	-83.77	753.48	39.87
	SLE Rare -	138.04	368.30	-380.49	-699.5	3648.2	-114.53	606.53	35.37
	SLE Rare +	161.76	409.46	-334.08	-596.9	4115.0	-100.19	685.75	35.99
	SLE Frequenti -	114.24	326.61	-306.37	-535.2	3181.4	-92.01	527.19	34.86
	SLE Frequenti +	123.73	343.07	-287.74	-494.1	3368.4	-86.16	558.81	35.15
	SLE Quasi Permanenti -	114.24	326.61	-287.80	-494.1	3181.6	-86.34	527.19	34.87
	SLE Quasi Permanenti +	114.24	326.61	-287.80	-494.1	3181.6	-86.34	527.19	34.87
	SLD -	97.68	251.77	-326.50	-527.6	3077.8	-87.63	435.47	33.74
	SLD +	130.80	401.45	-249.10	-460.7	3285.4	-85.26	619.56	36.41
107 110	SLU Statiche -	-315.24	-1428.35	-118.19	-496.1	64.5	-303.44	-1440.60	-6.05
	SLU Statiche +	-285.12	-1257.27	-103.54	-425.6	78.8	-274.22	-1268.17	-5.92
	SLV -	-211.85	-863.22	-214.87	-355.9	-130.7	-210.21	-885.91	-17.62
	SLV +	-204.16	-811.59	77.80	-190.8	207.5	-138.09	-817.85	6.72
	SLE Rare -	-238.04	-1064.45	-87.98	-367.3	48.1	-229.18	-1073.61	-6.06
	SLE Rare +	-217.96	-950.40	-78.21	-320.2	57.6	-209.71	-958.66	-5.94
	SLE Frequenti -	-212.10	-883.02	-72.44	-292.2	38.4	-204.37	-890.76	-6.14
	SLE Frequenti +	-207.86	-836.87	-68.49	-273.3	42.2	-200.49	-844.24	-6.09
	SLE Quasi Permanenti -	-208.00	-837.40	-68.54	-273.4	38.4	-200.63	-844.78	-6.14
	SLE Quasi Permanenti +	-208.00	-837.40	-68.54	-273.4	38.4	-200.63	-844.78	-6.14
	SLD -	-209.61	-848.13	-128.61	-307.8	-32.7	-208.57	-856.82	-11.25
	SLD +	-206.40	-826.67	-8.46	-239.0	109.5	-181.73	-833.21	-0.76
111 118	SLU Statiche -	-391.38	-1895.93	-123.95	464.0	97.4	-381.23	-1906.08	-4.68
	SLU Statiche +	-348.61	-1664.46	-107.10	510.3	109.2	-339.94	-1673.12	-4.61
	SLV -	-239.23	-1113.46	-177.20	321.1	-529.3	-236.17	-1136.10	-11.23
	SLV +	-231.51	-1092.32	38.04	346.4	676.3	-203.53	-1094.69	2.48
	SLE Rare -	-292.33	-1411.19	-91.95	353.9	74.9	-284.83	-1418.70	-4.67
	SLE Rare +	-263.82	-1256.87	-80.72	384.8	82.8	-257.30	-1263.39	-4.61
	SLE Frequenti -	-246.78	-1164.62	-74.07	333.7	73.4	-240.84	-1170.56	-4.58
	SLE Frequenti +	-235.34	-1102.72	-69.54	341.9	74.2	-229.80	-1108.26	-4.55
	SLE Quasi Permanenti -	-235.37	-1102.89	-69.58	333.8	73.5	-229.83	-1108.44	-4.56
	SLE Quasi Permanenti +	-235.37	-1102.89	-69.58	333.8	73.5	-229.83	-1108.44	-4.56
	SLD -	-236.98	-1107.29	-113.77	328.6	-174.2	-233.72	-1117.56	-7.38
	SLD +	-233.77	-1098.49	-25.39	338.9	321.2	-221.99	-1101.92	-1.67

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
108 111	SLU Statiche -	-46.95	7.90	708.16	90.6	-1036.2	-824.72	692.70	-44.31
	SLU Statiche +	-31.39	9.28	812.80	98.8	-913.8	-724.41	801.35	-43.94
	SLV -	-77.04	-125.31	383.27	-121.9	-784.6	-485.59	-485.21	-44.85
	SLV +	3.57	137.67	546.43	252.1	-436.9	389.59	621.14	44.99
	SLE Rare -	-36.18	6.15	534.27	69.2	-772.8	-614.03	522.03	-44.24
	SLE Rare +	-25.81	7.07	604.03	74.7	-691.2	-547.17	594.45	-43.91
	SLE Frequenti -	-36.75	6.12	464.68	65.0	-643.4	-507.34	449.86	-43.82
	SLE Frequenti +	-34.55	6.21	492.75	66.9	-610.2	-480.49	479.01	-43.68
	SLE Quasi Permanenti -	-36.74	6.18	464.85	65.1	-610.8	-480.62	450.07	-43.68
	SLE Quasi Permanenti +	-36.74	6.18	464.85	65.1	-610.8	-480.62	450.07	-43.68
	SLD -	-53.07	-47.81	431.39	-13.0	-684.3	-482.61	380.96	-44.86
	SLD +	-20.41	60.17	498.31	143.2	-537.2	-478.75	519.82	-42.65
112 119	SLU Statiche -	203.62	-200.42	568.32	-881.6	-3942.7	614.97	-674.44	35.74
	SLU Statiche +	241.07	-170.23	658.77	-739.6	-3461.2	715.10	-581.57	35.90
	SLV -	87.84	-269.81	273.30	-517.6	-2505.4	235.63	-417.66	28.40
	SLV +	167.69	51.17	462.49	-402.1	-2078.5	575.58	-355.57	41.41
	SLE Rare -	152.77	-148.67	428.03	-649.0	-2934.0	462.65	-500.35	35.76
	SLE Rare +	177.73	-128.54	488.33	-554.4	-2613.0	529.40	-438.43	35.91
	SLE Frequenti -	127.76	-117.37	367.81	-497.7	-2420.4	395.75	-402.06	35.99
	SLE Frequenti +	137.75	-108.87	392.02	-459.8	-2292.0	422.44	-376.92	36.08
	SLE Quasi Permanenti -	127.76	-109.32	367.90	-459.8	-2292.0	395.75	-377.30	36.07
	SLE Quasi Permanenti +	127.76	-109.32	367.90	-459.8	-2292.0	395.75	-377.30	36.07
	SLD -	111.35	-175.50	328.98	-483.6	-2379.6	326.81	-391.54	33.22
	SLD +	144.18	-43.14	406.82	-436.1	-2204.4	467.98	-366.33	38.52
101 114	SLU Statiche -	-405.50	16.99	124.00	628.0	-325.1	-445.74	53.13	-17.09
	SLU Statiche +	-372.30	20.40	143.32	684.1	-283.0	-408.45	64.46	-16.07
	SLV -	-273.93	0.51	74.69	422.7	-422.6	-293.99	21.73	-16.62
	SLV +	-251.49	21.15	87.07	459.2	56.8	-275.78	44.30	-13.98
	SLE Rare -	-305.03	12.89	93.56	477.2	-240.4	-334.85	39.99	-16.91
	SLE Rare +	-282.90	15.16	106.44	514.6	-212.3	-310.01	47.52	-16.01
	SLE Frequenti -	-270.54	10.72	80.78	440.9	-194.2	-294.69	32.78	-15.68
	SLE Frequenti +	-262.71	11.74	86.03	455.2	-182.9	-284.83	35.89	-15.27
	SLE Quasi Permanenti -	-262.71	10.83	80.88	440.9	-182.9	-284.83	32.96	-15.30
	SLE Quasi Permanenti +	-262.71	10.83	80.88	440.9	-182.9	-284.83	32.96	-15.30
	SLD -	-267.40	6.55	78.23	433.6	-279.6	-288.64	28.36	-15.87
	SLD +	-258.01	15.11	83.52	448.3	-86.3	-281.04	37.57	-14.73
105 115	SLU Statiche -	83.96	677.09	-223.42	388.0	-757.1	24.62	736.44	16.78
	SLU Statiche +	98.16	757.97	-196.78	444.9	-681.4	29.63	826.50	17.05
	SLV -	30.27	448.53	-139.67	130.9	-523.0	-6.37	485.17	15.46
	SLV +	76.94	468.85	-123.69	382.3	-411.0	35.36	510.42	17.57
	SLE Rare -	63.11	512.57	-166.75	293.5	-567.3	18.21	557.47	16.77
	SLE Rare +	72.57	566.49	-148.98	331.4	-516.9	21.55	617.51	17.01
	SLE Frequenti -	53.60	458.67	-138.78	256.1	-487.2	14.56	497.59	16.49
	SLE Frequenti +	57.39	480.26	-131.45	271.8	-466.7	15.91	521.74	16.64
	SLE Quasi Permanenti -	53.60	458.69	-131.68	256.6	-467.0	14.56	497.73	16.51
	SLE Quasi Permanenti +	53.60	458.69	-131.68	256.6	-467.0	14.56	497.73	16.51
	SLD -	44.21	454.59	-135.10	206.0	-489.6	6.19	492.61	16.07
	SLD +	63.00	462.79	-128.26	307.2	-444.4	22.91	502.87	16.96
109 116	SLU Statiche -	277.21	985.76	-353.64	-640.0	-2272.7	160.47	1102.50	20.55
	SLU Statiche +	323.89	1120.90	-310.39	-533.7	-1957.7	189.60	1255.19	20.79
	SLV -	170.20	640.49	-219.65	-345.5	-1369.8	92.75	709.74	19.77

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLV +	185.07	671.72	-192.66	-312.8	-1157.6	109.39	755.74	20.93
	SLE Rare -	208.58	745.19	-263.45	-470.7	-1683.7	120.47	833.30	20.53
	SLE Rare +	239.70	835.28	-234.62	-399.8	-1473.7	139.90	935.09	20.75
	SLE Frequenti -	177.55	655.60	-217.69	-357.5	-1347.7	101.05	732.10	20.38
	SLE Frequenti +	190.09	692.14	-205.97	-329.1	-1263.7	108.84	773.38	20.47
	SLE Quasi Permanenti -	177.64	656.10	-206.16	-329.2	-1263.7	101.07	732.68	20.38
	SLE Quasi Permanenti +	177.64	656.10	-206.16	-329.2	-1263.7	101.07	732.68	20.38
	SLD -	174.48	649.55	-211.81	-335.8	-1306.8	97.58	723.04	20.13
	SLD +	180.80	662.65	-200.50	-322.6	-1220.6	104.56	742.33	20.62

Valutazione Effetti NON-Lineari Pd_r/Vh

$V_x\ \Theta_x = P\ d_{r,x}\ /h$

$V_y\ \Theta_y = P\ d_{r,y}\ /h$

$V\ \Theta = P\ d_r\ /h$ dove: $d_r=sqrt(d_{r,x}^2+d_{r,y}^2)$

Controllo combinazioni 43 .. 74

Fattore di struttura 1.00

Fattore di importanza γ_i 1.00

Modalità di calcolo: spostamenti d'interpiano medi

Massimi

Interpiano Solai	Comb.	Altezza [m]	P [kN]	Direzione x				Direzione y				Direzione $U=\sqrt{d_{r,x}^2+d_{r,y}^2}$			
				V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ
1 0	67	4.70	222.42	13.81	0.02	0.04	0.0012								
1 0	65	4.70	222.42					-11.91	0.02	0.05	0.0020				
1 0	61	4.70	222.42									56.10	0.03	0.07	0.0006

Dettaglio risultati

Interpiano Solai	Comb.	Altezza [m]	P [kN]	Direzione x				Direzione y				Direzione $U=\sqrt{d_{r,x}^2+d_{r,y}^2}$			
				V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ
1 0	43	4.70	222.42	53.63	0.01	0.03	0.0002	14.21	0.02	0.05	0.0015	55.48	0.03	0.05	0.0005
	44	4.70	222.42	54.22	0.01	0.03	0.0003	11.91	0.02	0.05	0.0020	55.51	0.03	0.06	0.0005
	45	4.70	222.42	52.87	0.01	0.02	0.0002	-31.47	0.02	0.04	0.0006	61.53	0.02	0.04	0.0003
	46	4.70	222.42	53.46	0.01	0.03	0.0002	-33.77	0.02	0.05	0.0006	63.23	0.02	0.05	0.0004
	47	4.70	222.42	53.69	0.01	0.03	0.0003	16.45	0.02	0.05	0.0015	56.16	0.03	0.06	0.0005
	48	4.70	222.42	54.29	0.02	0.03	0.0003	14.15	0.03	0.06	0.0019	56.10	0.03	0.07	0.0006
	49	4.70	222.42	52.93	0.01	0.02	0.0002	-29.23	0.02	0.05	0.0007	60.47	0.02	0.05	0.0004
	50	4.70	222.42	53.53	0.01	0.03	0.0003	-31.53	0.02	0.05	0.0008	62.12	0.03	0.06	0.0004
	51	4.70	222.42	16.34	0.01	0.01	0.0003	77.02	0.03	0.07	0.0004	78.73	0.03	0.07	0.0004
	52	4.70	222.42	16.36	0.01	0.01	0.0004	77.69	0.03	0.07	0.0004	79.39	0.03	0.07	0.0004
	53	4.70	222.42	-15.81	0.01	0.01	0.0003	82.21	0.04	0.08	0.0004	83.72	0.04	0.08	0.0004
	54	4.70	222.42	-15.79	0.00	0.01	0.0003	82.89	0.04	0.08	0.0004	84.38	0.04	0.08	0.0004
	55	4.70	222.42	18.32	0.02	0.04	0.0010	69.36	0.03	0.07	0.0005	71.74	0.04	0.08	0.0005
	56	4.70	222.42	18.33	0.02	0.04	0.0010	70.03	0.03	0.07	0.0005	72.39	0.04	0.08	0.0005
	57	4.70	222.42	-13.83	0.02	0.03	0.0012	74.56	0.03	0.07	0.0005	75.83	0.04	0.08	0.0005
	58	4.70	222.42	-13.81	0.02	0.04	0.0012	75.23	0.03	0.07	0.0005	76.49	0.04	0.08	0.0005
	59	4.70	222.42	-53.53	0.01	0.03	0.0003	31.53	0.02	0.05	0.0008	62.12	0.03	0.06	0.0004
	60	4.70	222.42	-52.93	0.01	0.02	0.0002	29.23	0.02	0.05	0.0007	60.47	0.02	0.05	0.0004
	61	4.70	222.42	-54.29	0.02	0.03	0.0003	-14.15	0.03	0.06	0.0019	56.10	0.03	0.07	0.0006
	62	4.70	222.42	-53.69	0.01	0.03	0.0003	-16.45	0.02	0.05	0.0015	56.16	0.03	0.06	0.0005
	63	4.70	222.42	-53.46	0.01	0.03	0.0002	33.77	0.02	0.05	0.0006	63.23	0.02	0.05	0.0004

64	4.70	222.42	-52.87	0.01	0.02	0.0002	31.47	0.02	0.04	0.0006	61.53	0.02	0.04	0.0003
65	4.70	222.42	-54.22	0.01	0.03	0.0003	-11.91	0.02	0.05	0.0020	55.51	0.03	0.06	0.0005
66	4.70	222.42	-53.63	0.01	0.03	0.0002	-14.21	0.02	0.05	0.0015	55.48	0.03	0.05	0.0005
67	4.70	222.42	13.81	0.02	0.04	0.0012	-75.23	0.03	0.07	0.0005	76.49	0.04	0.08	0.0005
68	4.70	222.42	13.83	0.02	0.03	0.0012	-74.56	0.03	0.07	0.0005	75.83	0.04	0.08	0.0005
69	4.70	222.42	-18.33	0.02	0.04	0.0010	-70.03	0.03	0.07	0.0005	72.39	0.04	0.08	0.0005
70	4.70	222.42	-18.32	0.02	0.04	0.0010	-69.36	0.03	0.07	0.0005	71.74	0.04	0.08	0.0005
71	4.70	222.42	15.79	0.00	0.01	0.0003	-82.89	0.04	0.08	0.0004	84.38	0.04	0.08	0.0004
72	4.70	222.42	15.81	0.01	0.01	0.0003	-82.21	0.04	0.08	0.0004	83.72	0.04	0.08	0.0004
73	4.70	222.42	-16.36	0.01	0.01	0.0004	-77.69	0.03	0.07	0.0004	79.39	0.03	0.07	0.0004
74	4.70	222.42	-16.34	0.01	0.01	0.0003	-77.02	0.03	0.07	0.0004	78.73	0.03	0.07	0.0004

Valutazione Effetti NON-Lineari Pd_r/Vh

$V_x\ \Theta_x = P\ d_{r,x}\ /h$

$V_y\ \Theta_y = P\ d_{r,y}\ /h$

$V\ \Theta = P\ d_r\ /h$ dove: $d_r = sqrt(d_{r,x}^2 + d_{r,y}^2)$

Controllo combinazioni 4 .. 35

Fattore di struttura 1.00

Fattore di importanza γ_i 1.00

Modalità di calcolo: spostamenti d'interpiano medi

Massimi

Interpiano Solai	Comb.	Altezza [m]	P [kN]	Direzione x				Direzione y				Direzione $U=\sqrt{d_{r,x}^2+d_{r,y}^2}$			
				V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ
1 0	17	4.70	222.42	44.62	0.05	0.10	0.0011								
1 0	26	4.70	222.42					-31.50	0.05	0.10	0.0015				
1 0	22	4.70	222.42									133.30	0.07	0.14	0.0005

Dettaglio risultati

Interpiano Solai	Comb.	Altezza [m]	P [kN]	Direzione x				Direzione y				Direzione $U=\sqrt{d_{r,x}^2+d_{r,y}^2}$			
				V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ
1 0	4	4.70	222.42	125.29	0.03	0.06	0.0002	36.03	0.04	0.09	0.0011	130.36	0.05	0.10	0.0004
	5	4.70	222.42	127.14	0.04	0.08	0.0003	31.50	0.05	0.10	0.0015	130.99	0.06	0.13	0.0005
	6	4.70	222.42	123.00	0.01	0.03	0.0001	-74.65	0.04	0.07	0.0005	143.88	0.04	0.08	0.0003
	7	4.70	222.42	124.85	0.03	0.06	0.0002	-79.18	0.04	0.08	0.0005	147.84	0.05	0.10	0.0003
	8	4.70	222.42	125.91	0.03	0.06	0.0002	42.54	0.05	0.10	0.0011	132.91	0.06	0.12	0.0004
	9	4.70	222.42	127.77	0.04	0.09	0.0003	38.02	0.05	0.12	0.0014	133.30	0.07	0.14	0.0005
	10	4.70	222.42	123.62	0.02	0.04	0.0001	-68.14	0.04	0.08	0.0006	141.16	0.04	0.09	0.0003
	11	4.70	222.42	125.48	0.03	0.06	0.0002	-72.66	0.05	0.10	0.0006	145.00	0.06	0.12	0.0004
	12	4.70	222.42	38.25	0.01	0.02	0.0003	185.53	0.07	0.15	0.0004	189.43	0.07	0.15	0.0004
	13	4.70	222.42	38.44	0.01	0.02	0.0003	187.49	0.07	0.15	0.0004	191.38	0.07	0.15	0.0004
	14	4.70	222.42	-36.98	0.01	0.02	0.0002	196.52	0.08	0.16	0.0004	199.97	0.08	0.16	0.0004
	15	4.70	222.42	-36.79	0.01	0.02	0.0002	198.48	0.08	0.16	0.0004	201.86	0.08	0.16	0.0004
	16	4.70	222.42	44.43	0.05	0.10	0.0011	170.45	0.07	0.14	0.0004	176.15	0.08	0.18	0.0005
	17	4.70	222.42	44.62	0.05	0.10	0.0011	172.41	0.07	0.15	0.0004	178.09	0.08	0.18	0.0005
	18	4.70	222.42	-30.80	0.03	0.06	0.0010	181.44	0.07	0.15	0.0004	184.04	0.08	0.17	0.0004
	19	4.70	222.42	-30.61	0.03	0.07	0.0010	183.40	0.07	0.15	0.0004	185.93	0.08	0.17	0.0004
	20	4.70	222.42	-125.48	0.03	0.06	0.0002	72.66	0.05	0.10	0.0006	145.00	0.06	0.12	0.0004
	21	4.70	222.42	-123.62	0.02	0.04	0.0001	68.14	0.04	0.08	0.0006	141.16	0.04	0.09	0.0003
	22	4.70	222.42	-127.77	0.04	0.09	0.0003	-38.02	0.05	0.12	0.0014	133.30	0.07	0.14	0.0005
	23	4.70	222.42	-125.91	0.03	0.06	0.0002	-42.54	0.05	0.10	0.0011	132.91	0.06	0.12	0.0004
	24	4.70	222.42	-124.85	0.03	0.06	0.0002	79.18	0.04	0.08	0.0005	147.84	0.05	0.10	0.0003
	25	4.70	222.42	-123.00	0.01	0.03	0.0001	74.65	0.04	0.07	0.0005	143.88	0.04	0.08	0.0003
	26	4.70	222.42	-127.14	0.04	0.08	0.0003	-31.50	0.05	0.10	0.0015	130.99	0.06	0.13	0.0005
	27	4.70	222.42	-125.29	0.03	0.06	0.0002	-36.02	0.04	0.09	0.0011	130.36	0.05	0.10	0.0004
	28	4.70	222.42	30.61	0.03	0.07	0.0010	-183.40	0.07	0.15	0.0004	185.93	0.08	0.17	0.0004
	29	4.70	222.42	30.80	0.03	0.06	0.0010	-181.44	0.07	0.15	0.0004	184.04	0.08	0.17	0.0004
	30	4.70	222.42	-44.62	0.05	0.10	0.0011	-172.41	0.07	0.15	0.0004	178.09	0.08	0.18	0.0005
	31	4.70	222.42	-44.43	0.05	0.10	0.0011	-170.45	0.07	0.14	0.0004	176.15	0.08	0.18	0.0005
	32	4.70	222.42	36.79	0.01	0.02	0.0002	-198.48	0.08	0.16	0.0004	201.86	0.08	0.16	0.0004

33	4.70	222.42	36.98	0.01	0.02	0.0002	-196.52	0.08	0.16	0.0004	199.97	0.08	0.16	0.0004
34	4.70	222.42	-38.44	0.01	0.02	0.0003	-187.49	0.07	0.15	0.0004	191.38	0.07	0.15	0.0004
35	4.70	222.42	-38.25	0.01	0.02	0.0003	-185.53	0.07	0.15	0.0004	189.43	0.07	0.15	0.0004

AMPLIAMENTO CIVICO CIMITERO MASSA FERMANA – CORPO B – VERIFICA SPOSTAMENTI DIFFERENZIALI SLD

Combinazioni agli Stati Limite di Danno

Massimi spostamenti differenziali orizzontali

- Fattore moltiplicativo spostamenti dovuti al sisma b 1
- c 1
- Controllo degli spostamenti di interpiano dU inferiore a 0.005 H

Comb.	U_x		U_y		U_z		$\|U_{xyz}\|$	
	Nodi	**U_x [cm]**	**Nodi**	**U_y [cm]**	**Nodi**	**U_z [cm]**	**Nodi**	**$\|U_{xyz}\|$ [cm]**
43	12-112	0.03	1-101	0.04	12-112	0.02	9-109	0.05
44	12-112	0.05	1-101	0.04	12-112	0.02	9-109	0.06
45	9-109	0.02	4-104	-0.05	12-112	0.02	12-112	0.06
46	9-109	0.03	4-104	-0.05	12-112	0.02	12-112	0.07
47	12-112	0.04	1-101	0.05	9-109	-0.00	9-109	0.06
48	12-112	0.05	1-101	0.05	9-109	-0.00	9-109	0.07
49	9-109	0.03	4-104	-0.05	12-112	0.00	12-112	0.06
50	9-109	0.04	4-104	-0.06	12-112	0.00	12-112	0.07
51	12-112	0.01	1-101	0.07	9-109	-0.01	9-109	0.07
52	12-112	0.01	1-101	0.07	9-109	-0.00	9-109	0.07
53	9-109	-0.01	4-104	0.07	12-112	-0.00	12-112	0.07
54	9-109	-0.01	4-104	0.07	12-112	-0.01	12-112	0.07
55	8-108	0.06	1-101	0.08	9-109	-0.01	5-105	0.10
56	8-108	0.06	1-101	0.08	9-109	-0.01	5-105	0.10
57	8-108	0.05	1-101	0.07	9-109	-0.00	5-105	0.08
58	8-108	0.05	1-101	0.07	12-112	-0.01	5-105	0.08
59	9-109	-0.04	4-104	0.06	12-112	-0.00	12-112	0.07
60	9-109	-0.03	4-104	0.05	12-112	-0.00	12-112	0.06
61	12-112	-0.05	1-101	-0.05	9-109	0.00	9-109	0.07
62	12-112	-0.04	1-101	-0.05	9-109	0.00	9-109	0.06
63	9-109	-0.03	4-104	0.05	12-112	-0.02	12-112	0.07
64	9-109	-0.02	4-104	0.05	12-112	-0.02	12-112	0.06
65	12-112	-0.05	1-101	-0.04	12-112	-0.02	9-109	0.06
66	12-112	-0.03	1-101	-0.04	12-112	-0.02	9-109	0.05

67	8-108	-0.05	1-101	-0.07	12-112	0.01	5-105	0.08
68	8-108	-0.05	1-101	-0.07	9-109	0.00	5-105	0.08
69	8-108	-0.06	1-101	-0.08	9-109	0.01	5-105	0.10
70	8-108	-0.06	1-101	-0.08	9-109	0.01	5-105	0.10
71	9-109	0.01	4-104	-0.07	12-112	0.01	12-112	0.07
72	9-109	0.01	4-104	-0.07	12-112	0.00	12-112	0.07
73	12-112	-0.01	1-101	-0.07	9-109	0.00	9-109	0.07
74	12-112	-0.01	1-101	-0.07	9-109	0.01	9-109	0.07

Spostamenti Max in direzione U_x [cm]

Nodi	Comb.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
12 112	43	**0.03**	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
12 112	44	0.03	**0.05**	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
9 109	45	0.03	0.05	**0.02**	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
9 109	46	0.03	0.05	0.02	**0.03**	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
12 112	47	0.03	0.05	0.02	0.03	**0.04**	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
12 112	48	0.03	0.05	0.02	0.03	0.04	**0.05**	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
9 109	49	0.03	0.05	0.02	0.03	0.04	0.05	**0.03**	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
9 109	50	0.03	0.05	0.02	0.03	0.04	0.05	0.03	**0.04**	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
12 112	51	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	**0.01**	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
12 112	52	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	**0.01**	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
9 109	53	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	**-0.01**	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
9 109	54	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	**-0.01**	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
8 108	55	0.02	0.04	0.01	0.02	0.03	0.04	0.01	0.02	0.01	0.01	-0.01	-0.01	**0.06**	0.06	0.05	0.05	-0.02	-0.01	-0.04	-0.03	-0.02	-0.01	-0.04	-0.02	-0.05	-0.05	-0.06	-0.06	0.01	0.01	-0.01	-0.01
8 108	56	0.02	0.04	0.01	0.02	0.03	0.04	0.01	0.02	0.01	0.01	-0.01	-0.01	0.06	**0.06**	0.05	0.05	-0.02	-0.01	-0.04	-0.03	-0.02	-0.01	-0.04	-0.02	-0.05	-0.05	-0.06	-0.06	0.01	0.01	-0.01	-0.01
8 108	57	0.02	0.04	0.01	0.02	0.03	0.04	0.01	0.02	0.01	0.01	-0.01	-0.01	0.06	0.06	**0.05**	0.05	-0.02	-0.01	-0.04	-0.03	-0.02	-0.01	-0.04	-0.02	-0.05	-0.05	-0.06	-0.06	0.01	0.01	-0.01	-0.01
8 108	58	0.02	0.04	0.01	0.02	0.03	0.04	0.01	0.02	0.01	0.01	-0.01	-0.01	0.06	0.06	0.05	**0.05**	-0.02	-0.01	-0.04	-0.03	-0.02	-0.01	-0.04	-0.02	-0.05	-0.05	-0.06	-0.06	0.01	0.01	-0.01	-0.01
9 109	59	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	**-0.04**	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
9 109	60	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	**-0.03**	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
12 112	61	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	**-0.05**	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
12 112	62	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	**-0.04**	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
9 109	63	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	**-0.03**	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
9 109	64	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	**-0.02**	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
12 112	65	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	**-0.05**	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01
12 112	66	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	**-0.03**	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	-0.01

8	108	67	0.02	0.04	0.01	0.02	0.03	0.04	0.01	0.02	0.01	0.01	-0.01	-0.01	0.06	0.06	0.05	0.05	-0.02	-0.01	-0.04	-0.03	-0.02	-0.01	-0.04	-0.02	**-0.05**	-0.05	-0.06	-0.06	0.01	0.01	-0.01	-0.01
8	108	68	0.02	0.04	0.01	0.02	0.03	0.04	0.01	0.02	0.01	0.01	-0.01	-0.01	0.06	0.06	0.05	0.05	-0.02	-0.01	-0.04	-0.03	-0.02	-0.01	-0.04	-0.02	-0.05	**-0.05**	-0.06	-0.06	0.01	0.01	-0.01	-0.01
8	108	69	0.02	0.04	0.01	0.02	0.03	0.04	0.01	0.02	0.01	0.01	-0.01	-0.01	0.06	0.06	0.05	0.05	-0.02	-0.01	-0.04	-0.03	-0.02	-0.01	-0.04	-0.02	-0.05	-0.05	**-0.06**	-0.06	0.01	0.01	-0.01	-0.01
8	108	70	0.02	0.04	0.01	0.02	0.03	0.04	0.01	0.02	0.01	0.01	-0.01	-0.01	0.06	0.06	0.05	0.05	-0.02	-0.01	-0.04	-0.03	-0.02	-0.01	-0.04	-0.02	-0.05	-0.05	-0.06	**-0.06**	0.01	0.01	-0.01	-0.01
9	109	71	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	**0.01**	0.01	-0.01	-0.01
9	109	72	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	**0.01**	-0.01	-0.01
12	112	73	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	**-0.01**	-0.01
12	112	74	0.03	0.05	0.02	0.03	0.04	0.05	0.03	0.04	0.01	0.01	-0.01	-0.01	0.05	0.05	0.03	0.03	-0.04	-0.03	-0.05	-0.04	-0.03	-0.02	-0.05	-0.03	-0.03	-0.03	-0.05	-0.05	0.01	0.01	-0.01	**-0.01**

Spostamenti Max in direzione U_y [cm]

Nodi	**Comb.**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**
1	101	43	**0.04**	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07
1	101	44	0.04	**0.04**	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07
4	104	45	-0.02	-0.03	**-0.05**	-0.05	-0.02	-0.03	-0.05	-0.06	0.05	0.05	0.07	0.07	0.02	0.02	0.05	0.05	0.06	0.05	0.03	0.02	0.05	0.05	0.03	0.02	-0.05	-0.05	-0.02	-0.02	-0.07	-0.07	-0.05	-0.05
4	104	46	-0.02	-0.03	-0.05	**-0.05**	-0.02	-0.03	-0.05	-0.06	0.05	0.05	0.07	0.07	0.02	0.02	0.05	0.05	0.06	0.05	0.03	0.02	0.05	0.05	0.03	0.02	-0.05	-0.05	-0.02	-0.02	-0.07	-0.07	-0.05	-0.05
1	101	47	0.04	0.04	-0.00	0.00	**0.05**	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07
1	101	48	0.04	0.04	-0.00	0.00	0.05	**0.05**	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07
4	104	49	-0.02	-0.03	-0.05	-0.05	-0.02	-0.03	**-0.05**	-0.06	0.05	0.05	0.07	0.07	0.02	0.02	0.05	0.05	0.06	0.05	0.03	0.02	0.05	0.05	0.03	0.02	-0.05	-0.05	-0.02	-0.02	-0.07	-0.07	-0.05	-0.05
4	104	50	-0.02	-0.03	-0.05	-0.05	-0.02	-0.03	-0.05	**-0.06**	0.05	0.05	0.07	0.07	0.02	0.02	0.05	0.05	0.06	0.05	0.03	0.02	0.05	0.05	0.03	0.02	-0.05	-0.05	-0.02	-0.02	-0.07	-0.07	-0.05	-0.05
1	101	51	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	**0.07**	0.07	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07
1	101	52	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	**0.07**	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07
4	104	53	-0.02	-0.03	-0.05	-0.05	-0.02	-0.03	-0.05	-0.06	0.05	0.05	**0.07**	0.07	0.02	0.02	0.05	0.05	0.06	0.05	0.03	0.02	0.05	0.05	0.03	0.02	-0.05	-0.05	-0.02	-0.02	-0.07	-0.07	-0.05	-0.05
4	104	54	-0.02	-0.03	-0.05	-0.05	-0.02	-0.03	-0.05	-0.06	0.05	0.05	0.07	**0.07**	0.02	0.02	0.05	0.05	0.06	0.05	0.03	0.02	0.05	0.05	0.03	0.02	-0.05	-0.05	-0.02	-0.02	-0.07	-0.07	-0.05	-0.05
1	101	55	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	**0.08**	0.08	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07
1	101	56	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	**0.08**	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07
1	101	57	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	**0.07**	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07
1	101	58	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	0.07	**0.07**	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07
4	104	59	-0.02	-0.03	-0.05	-0.05	-0.02	-0.03	-0.05	-0.06	0.05	0.05	0.07	0.07	0.02	0.02	0.05	0.05	**0.06**	0.05	0.03	0.02	0.05	0.05	0.03	0.02	-0.05	-0.05	-0.02	-0.02	-0.07	-0.07	-0.05	-0.05
4	104	60	-0.02	-0.03	-0.05	-0.05	-0.02	-0.03	-0.05	-0.06	0.05	0.05	0.07	0.07	0.02	0.02	0.05	0.05	0.06	**0.05**	0.03	0.02	0.05	0.05	0.03	0.02	-0.05	-0.05	-0.02	-0.02	-0.07	-0.07	-0.05	-0.05
1	101	61	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	**-0.05**	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07
1	101	62	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	-0.05	**-0.05**	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07
4	104	63	-0.02	-0.03	-0.05	-0.05	-0.02	-0.03	-0.05	-0.06	0.05	0.05	0.07	0.07	0.02	0.02	0.05	0.05	0.06	0.05	0.03	0.02	**0.05**	0.05	0.03	0.02	-0.05	-0.05	-0.02	-0.02	-0.07	-0.07	-0.05	-0.05
4	104	64	-0.02	-0.03	-0.05	-0.05	-0.02	-0.03	-0.05	-0.06	0.05	0.05	0.07	0.07	0.02	0.02	0.05	0.05	0.06	0.05	0.03	0.02	0.05	**0.05**	0.03	0.02	-0.05	-0.05	-0.02	-0.02	-0.07	-0.07	-0.05	-0.05
1	101	65	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	**-0.04**	-0.04	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07
1	101	66	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	**-0.04**	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07

1 101 67	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	**-0.07**	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07
1 101 68	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	**-0.07**	-0.08	-0.08	-0.05	-0.05	-0.07	-0.07
1 101 69	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	**-0.08**	-0.08	-0.05	-0.05	-0.07	-0.07
1 101 70	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	-0.08	**-0.08**	-0.05	-0.05	-0.07	-0.07
4 104 71	-0.02	-0.03	-0.05	-0.05	-0.02	-0.03	-0.05	-0.06	0.05	0.05	0.07	0.07	0.02	0.02	0.05	0.05	0.06	0.05	0.03	0.02	0.05	0.05	0.03	0.02	-0.05	-0.05	-0.02	-0.02	**-0.07**	-0.07	-0.05	-0.05
4 104 72	-0.02	-0.03	-0.05	-0.05	-0.02	-0.03	-0.05	-0.06	0.05	0.05	0.07	0.07	0.02	0.02	0.05	0.05	0.06	0.05	0.03	0.02	0.05	0.05	0.03	0.02	-0.05	-0.05	-0.02	-0.02	-0.07	**-0.07**	-0.05	-0.05
1 101 73	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	**-0.07**	-0.07
1 101 74	0.04	0.04	-0.00	0.00	0.05	0.05	0.01	0.01	0.07	0.07	0.05	0.05	0.08	0.08	0.07	0.07	-0.01	-0.01	-0.05	-0.05	-0.00	0.00	-0.04	-0.04	-0.07	-0.07	-0.08	-0.08	-0.05	-0.05	-0.07	**-0.07**

Spostamenti Max in direzione U_z [cm]

Nodi	Comb.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
12	112 43	**0.02**	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.02	-0.02	0.01	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00
12	112 44	0.02	**0.02**	0.02	0.02	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.02	-0.02	0.01	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00
12	112 45	0.02	0.02	**0.02**	0.02	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.02	-0.02	0.01	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00
12	112 46	0.02	0.02	0.02	**0.02**	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.02	-0.02	0.01	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00
9	109 47	-0.01	-0.02	-0.01	-0.01	**-0.00**	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
9	109 48	-0.01	-0.02	-0.01	-0.01	-0.00	**-0.00**	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
12	112 49	0.02	0.02	0.02	0.02	0.00	0.00	**0.00**	0.00	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.02	-0.02	0.01	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00
12	112 50	0.02	0.02	0.02	0.02	0.00	0.00	0.00	**0.00**	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.02	-0.02	0.01	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00
9	109 51	-0.01	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	**-0.01**	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
9	109 52	-0.01	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	**-0.00**	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
12	112 53	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	-0.00	**-0.00**	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.02	-0.02	0.01	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00
12	112 54	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	**-0.01**	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.02	-0.02	0.01	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00
9	109 55	-0.01	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	**-0.01**	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
9	109 56	-0.01	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	**-0.01**	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
9	109 57	-0.01	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	**-0.00**	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
12	112 58	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	**-0.01**	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.02	-0.02	0.01	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00
12	112 59	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	-0.01	**-0.00**	-0.00	-0.00	-0.00	-0.02	-0.02	-0.02	-0.02	0.01	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00
12	112 60	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	**-0.00**	-0.00	-0.00	-0.02	-0.02	-0.02	-0.02	0.01	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00
9	109 61	-0.01	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	**0.00**	0.00	0.01	0.01	0.02	0.01	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
9	109 62	-0.01	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	**0.00**	0.01	0.01	0.02	0.01	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	0.01
12	112 63	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	**-0.02**	-0.02	-0.02	-0.02	0.01	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00
12	112 64	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	**-0.02**	-0.02	-0.02	0.01	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00
12	112 65	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	**-0.02**	-0.02	0.01	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00
12	112 66	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.02	**-0.02**	0.01	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00

12 112	67	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.02	-0.02	**0.01**	0.00	0.00	-0.00	0.01	0.00	0.00	-0.00
9 109	68	-0.01	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.00	**0.00**	0.01	0.01	-0.00	0.00	0.00	0.01
9 109	69	-0.01	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.00	**0.01**	0.01	-0.00	0.00	0.00	0.01
9 109	70	-0.01	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.00	0.01	**0.01**	-0.00	0.00	0.00	0.01
12 112	71	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.02	-0.02	0.01	0.00	0.00	-0.00	**0.01**	0.00	0.00	-0.00
12 112	72	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	-0.00	-0.00	-0.01	0.00	-0.00	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.02	-0.02	-0.02	-0.02	0.01	0.00	0.00	-0.00	0.01	**0.00**	0.00	-0.00
9 109	73	-0.01	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.00	0.01	0.01	-0.00	0.00	**0.00**	0.01
9 109	74	-0.01	-0.02	-0.01	-0.01	-0.00	-0.00	-0.00	-0.00	-0.01	-0.00	-0.00	0.00	-0.01	-0.01	-0.00	-0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.00	0.01	0.01	-0.00	0.00	0.00	**0.01**

Spostamenti Max in direzione $|U_{xyz}|$ [cm]

Nodi	Comb.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
9 109	43	**0.05**	0.06	0.02	0.04	0.06	0.07	0.03	0.04	0.07	0.07	0.05	0.05	0.10	0.10	0.07	0.07	0.04	0.03	0.07	0.06	0.04	0.02	0.06	0.05	0.07	0.07	0.10	0.10	0.05	0.05	0.07	0.07
9 109	44	0.05	**0.06**	0.02	0.04	0.06	0.07	0.03	0.04	0.07	0.07	0.05	0.05	0.10	0.10	0.07	0.07	0.04	0.03	0.07	0.06	0.04	0.02	0.06	0.05	0.07	0.07	0.10	0.10	0.05	0.05	0.07	0.07
12 112	45	0.04	0.06	**0.06**	0.07	0.04	0.06	0.06	0.07	0.05	0.05	0.07	0.07	0.05	0.06	0.05	0.05	0.07	0.06	0.06	0.04	0.07	0.06	0.06	0.04	0.05	0.05	0.06	0.05	0.07	0.07	0.05	0.05
12 112	46	0.04	0.06	0.06	**0.07**	0.04	0.06	0.06	0.07	0.05	0.05	0.07	0.07	0.05	0.06	0.05	0.05	0.07	0.06	0.06	0.04	0.07	0.06	0.06	0.04	0.05	0.05	0.06	0.05	0.07	0.07	0.05	0.05
9 109	47	0.05	0.06	0.02	0.04	**0.06**	0.07	0.03	0.04	0.07	0.07	0.05	0.05	0.10	0.10	0.07	0.07	0.04	0.03	0.07	0.06	0.04	0.02	0.06	0.05	0.07	0.07	0.10	0.10	0.05	0.05	0.07	0.07
9 109	48	0.05	0.06	0.02	0.04	0.06	**0.07**	0.03	0.04	0.07	0.07	0.05	0.05	0.10	0.10	0.07	0.07	0.04	0.03	0.07	0.06	0.04	0.02	0.06	0.05	0.07	0.07	0.10	0.10	0.05	0.05	0.07	0.07
12 112	49	0.04	0.06	0.06	0.07	0.04	0.06	**0.06**	0.07	0.05	0.05	0.07	0.07	0.05	0.06	0.05	0.05	0.07	0.06	0.06	0.04	0.07	0.06	0.06	0.04	0.05	0.05	0.06	0.05	0.07	0.07	0.05	0.05
12 112	50	0.04	0.06	0.06	0.07	0.04	0.06	0.06	**0.07**	0.05	0.05	0.07	0.07	0.05	0.06	0.05	0.05	0.07	0.06	0.06	0.04	0.07	0.06	0.06	0.04	0.05	0.05	0.06	0.05	0.07	0.07	0.05	0.05
9 109	51	0.05	0.06	0.02	0.04	0.06	0.07	0.03	0.04	**0.07**	0.07	0.05	0.05	0.10	0.10	0.07	0.07	0.04	0.03	0.07	0.06	0.04	0.02	0.06	0.05	0.07	0.07	0.10	0.10	0.05	0.05	0.07	0.07
9 109	52	0.05	0.06	0.02	0.04	0.06	0.07	0.03	0.04	0.07	**0.07**	0.05	0.05	0.10	0.10	0.07	0.07	0.04	0.03	0.07	0.06	0.04	0.02	0.06	0.05	0.07	0.07	0.10	0.10	0.05	0.05	0.07	0.07
12 112	53	0.04	0.06	0.06	0.07	0.04	0.06	0.06	0.07	0.05	0.05	**0.07**	0.07	0.05	0.06	0.05	0.05	0.07	0.06	0.06	0.04	0.07	0.06	0.06	0.04	0.05	0.05	0.06	0.05	0.07	0.07	0.05	0.05
12 112	54	0.04	0.06	0.06	0.07	0.04	0.06	0.06	0.07	0.05	0.05	0.07	**0.07**	0.05	0.06	0.05	0.05	0.07	0.06	0.06	0.04	0.07	0.06	0.06	0.04	0.05	0.05	0.06	0.05	0.07	0.07	0.05	0.05
5 105	55	0.04	0.06	0.01	0.02	0.05	0.07	0.01	0.03	0.07	0.07	0.05	0.05	**0.10**	0.10	0.08	0.08	0.03	0.01	0.07	0.05	0.02	0.01	0.06	0.04	0.08	0.08	0.10	0.10	0.05	0.05	0.07	0.07
5 105	56	0.04	0.06	0.01	0.02	0.05	0.07	0.01	0.03	0.07	0.07	0.05	0.05	0.10	**0.10**	0.08	0.08	0.03	0.01	0.07	0.05	0.02	0.01	0.06	0.04	0.08	0.08	0.10	0.10	0.05	0.05	0.07	0.07
5 105	57	0.04	0.06	0.01	0.02	0.05	0.07	0.01	0.03	0.07	0.07	0.05	0.05	0.10	0.10	**0.08**	0.08	0.03	0.01	0.07	0.05	0.02	0.01	0.06	0.04	0.08	0.08	0.10	0.10	0.05	0.05	0.07	0.07
5 105	58	0.04	0.06	0.01	0.02	0.05	0.07	0.01	0.03	0.07	0.07	0.05	0.05	0.10	0.10	0.08	**0.08**	0.03	0.01	0.07	0.05	0.02	0.01	0.06	0.04	0.08	0.08	0.10	0.10	0.05	0.05	0.07	0.07
12 112	59	0.04	0.06	0.06	0.07	0.04	0.06	0.06	0.07	0.05	0.05	0.07	0.07	0.05	0.06	0.05	0.05	**0.07**	0.06	0.06	0.04	0.07	0.06	0.06	0.04	0.05	0.05	0.06	0.05	0.07	0.07	0.05	0.05
12 112	60	0.04	0.06	0.06	0.07	0.04	0.06	0.06	0.07	0.05	0.05	0.07	0.07	0.05	0.06	0.05	0.05	0.07	**0.06**	0.06	0.04	0.07	0.06	0.06	0.04	0.05	0.05	0.06	0.05	0.07	0.07	0.05	0.05
9 109	61	0.05	0.06	0.02	0.04	0.06	0.07	0.03	0.04	0.07	0.07	0.05	0.05	0.10	0.10	0.07	0.07	0.04	0.03	**0.07**	0.06	0.04	0.02	0.06	0.05	0.07	0.07	0.10	0.10	0.05	0.05	0.07	0.07
9 109	62	0.05	0.06	0.02	0.04	0.06	0.07	0.03	0.04	0.07	0.07	0.05	0.05	0.10	0.10	0.07	0.07	0.04	0.03	0.07	**0.06**	0.04	0.02	0.06	0.05	0.07	0.07	0.10	0.10	0.05	0.05	0.07	0.07
12 112	63	0.04	0.06	0.06	0.07	0.04	0.06	0.06	0.07	0.05	0.05	0.07	0.07	0.05	0.06	0.05	0.05	0.07	0.06	0.06	0.04	**0.07**	0.06	0.06	0.04	0.05	0.05	0.06	0.05	0.07	0.07	0.05	0.05
12 112	64	0.04	0.06	0.06	0.07	0.04	0.06	0.06	0.07	0.05	0.05	0.07	0.07	0.05	0.06	0.05	0.05	0.07	0.06	0.06	0.04	0.07	**0.06**	0.06	0.04	0.05	0.05	0.06	0.05	0.07	0.07	0.05	0.05
9 109	65	0.05	0.06	0.02	0.04	0.06	0.07	0.03	0.04	0.07	0.07	0.05	0.05	0.10	0.10	0.07	0.07	0.04	0.03	0.07	0.06	0.04	0.02	**0.06**	0.05	0.07	0.07	0.10	0.10	0.05	0.05	0.07	0.07
9 109	66	0.05	0.06	0.02	0.04	0.06	0.07	0.03	0.04	0.07	0.07	0.05	0.05	0.10	0.10	0.07	0.07	0.04	0.03	0.07	0.06	0.04	0.02	0.06	**0.05**	0.07	0.07	0.10	0.10	0.05	0.05	0.07	0.07

5	105	67	0.04	0.06	0.01	0.02	0.05	0.07	0.01	0.03	0.07	0.07	0.05	0.05	0.10	0.10	0.08	0.08	0.03	0.01	0.07	0.05	0.02	0.01	0.06	0.04	**0.08**	0.08	0.10	0.10	0.05	0.05	0.07	0.07
5	105	68	0.04	0.06	0.01	0.02	0.05	0.07	0.01	0.03	0.07	0.07	0.05	0.05	0.10	0.10	0.08	0.08	0.03	0.01	0.07	0.05	0.02	0.01	0.06	0.04	0.08	**0.08**	0.10	0.10	0.05	0.05	0.07	0.07
5	105	69	0.04	0.06	0.01	0.02	0.05	0.07	0.01	0.03	0.07	0.07	0.05	0.05	0.10	0.10	0.08	0.08	0.03	0.01	0.07	0.05	0.02	0.01	0.06	0.04	0.08	0.08	**0.10**	0.10	0.05	0.05	0.07	0.07
5	105	70	0.04	0.06	0.01	0.02	0.05	0.07	0.01	0.03	0.07	0.07	0.05	0.05	0.10	0.10	0.08	0.08	0.03	0.01	0.07	0.05	0.02	0.01	0.06	0.04	0.08	0.08	0.10	**0.10**	0.05	0.05	0.07	0.07
12	112	71	0.04	0.06	0.06	0.07	0.04	0.06	0.06	0.07	0.05	0.05	0.07	0.07	0.05	0.06	0.05	0.05	0.07	0.06	0.06	0.04	0.07	0.06	0.06	0.04	0.05	0.05	0.06	0.05	**0.07**	0.07	0.05	0.05
12	112	72	0.04	0.06	0.06	0.07	0.04	0.06	0.06	0.07	0.05	0.05	0.07	0.07	0.05	0.06	0.05	0.05	0.07	0.06	0.06	0.04	0.07	0.06	0.06	0.04	0.05	0.05	0.06	0.05	0.07	**0.07**	0.05	0.05
9	109	73	0.05	0.06	0.02	0.04	0.06	0.07	0.03	0.04	0.07	0.07	0.05	0.05	0.10	0.10	0.07	0.07	0.04	0.03	0.07	0.06	0.04	0.02	0.06	0.05	0.07	0.07	0.10	0.10	0.05	0.05	**0.07**	0.07
9	109	74	0.05	0.06	0.02	0.04	0.06	0.07	0.03	0.04	0.07	0.07	0.05	0.05	0.10	0.10	0.07	0.07	0.04	0.03	0.07	0.06	0.04	0.02	0.06	0.05	0.07	0.07	0.10	0.10	0.05	0.05	0.07	**0.07**

Spostamenti Massimi :

Combinazione di Carico 56 Fra i nodi 5 105 $|U_{xyz}|$ Spostamento 0.10 [cm]

Non si sono rilevati spostamenti di interpiano superiori a 0.005000 H

du/H x 1000 Max in direzione U_x

Nodi	dx [cm]	dy [cm]	dz [cm]	L [cm]	Comb.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
12 112	0.00	0.00	470.00	470.00	43	**0.072**	0.096	0.046	0.070	0.081	0.104	0.054	0.078	0.026	0.029	-0.019	-0.016	0.105	0.108	0.060	0.063	-0.078	-0.054	-0.104	-0.081	-0.070	-0.046	-0.096	-0.072	-0.063	-0.060	-0.108	-0.105	0.016	0.019	-0.029
12 112	0.00	0.00	470.00	470.00	44	0.072	**0.096**	0.046	0.070	0.081	0.104	0.054	0.078	0.026	0.029	-0.019	-0.016	0.105	0.108	0.060	0.063	-0.078	-0.054	-0.104	-0.081	-0.070	-0.046	-0.096	-0.072	-0.063	-0.060	-0.108	-0.105	0.016	0.019	-0.029
9 109	0.00	0.00	470.00	470.00	45	0.072	0.096	**0.046**	0.071	0.080	0.104	0.054	0.079	0.023	0.026	-0.022	-0.019	0.105	0.107	0.060	0.062	-0.079	-0.054	-0.104	-0.080	-0.071	-0.046	-0.096	-0.072	-0.062	-0.060	-0.107	-0.105	0.019	0.022	-0.026
9 109	0.00	0.00	470.00	470.00	46	0.072	0.096	0.046	**0.071**	0.080	0.104	0.054	0.079	0.023	0.026	-0.022	-0.019	0.105	0.107	0.060	0.062	-0.079	-0.054	-0.104	-0.080	-0.071	-0.046	-0.096	-0.072	-0.062	-0.060	-0.107	-0.105	0.019	0.022	-0.026
12 112	0.00	0.00	470.00	470.00	47	0.072	0.096	0.046	0.070	**0.081**	0.104	0.054	0.078	0.026	0.029	-0.019	-0.016	0.105	0.108	0.060	0.063	-0.078	-0.054	-0.104	-0.081	-0.070	-0.046	-0.096	-0.072	-0.063	-0.060	-0.108	-0.105	0.016	0.019	-0.029
12 112	0.00	0.00	470.00	470.00	48	0.072	0.096	0.046	0.070	0.081	**0.104**	0.054	0.078	0.026	0.029	-0.019	-0.016	0.105	0.108	0.060	0.063	-0.078	-0.054	-0.104	-0.081	-0.070	-0.046	-0.096	-0.072	-0.063	-0.060	-0.108	-0.105	0.016	0.019	-0.029
9 109	0.00	0.00	470.00	470.00	49	0.072	0.096	0.046	0.071	0.080	0.104	**0.054**	0.079	0.023	0.026	-0.022	-0.019	0.105	0.107	0.060	0.062	-0.079	-0.054	-0.104	-0.080	-0.071	-0.046	-0.096	-0.072	-0.062	-0.060	-0.107	-0.105	0.019	0.022	-0.026
9 109	0.00	0.00	470.00	470.00	50	0.072	0.096	0.046	0.071	0.080	0.104	0.054	**0.079**	0.023	0.026	-0.022	-0.019	0.105	0.107	0.060	0.062	-0.079	-0.054	-0.104	-0.080	-0.071	-0.046	-0.096	-0.072	-0.062	-0.060	-0.107	-0.105	0.019	0.022	-0.026
12 112	0.00	0.00	470.00	470.00	51	0.072	0.096	0.046	0.070	0.081	0.104	0.054	0.078	**0.026**	0.029	-0.019	-0.016	0.105	0.108	0.060	0.063	-0.078	-0.054	-0.104	-0.081	-0.070	-0.046	-0.096	-0.072	-0.063	-0.060	-0.108	-0.105	0.016	0.019	-0.029

12 112	0.00	0.00	470.00	470.00	52	0.072	0.096	0.046	0.070	0.081	0.104	0.054	0.078	0.026	**0.029**	-0.019	-0.016	0.105	0.108	0.060	0.063	-0.078	-0.054	-0.104	-0.081	-0.070	-0.046	-0.096	-0.072	-0.063	-0.060	-0.108	-0.105	0.016	0.019	-0.029
9 109	0.00	0.00	470.00	470.00	53	0.072	0.096	0.046	0.071	0.080	0.104	0.054	0.079	0.023	0.026	**-0.022**	-0.019	0.105	0.107	0.060	0.062	-0.079	-0.054	-0.104	-0.080	-0.071	-0.046	-0.096	-0.072	-0.062	-0.060	-0.107	-0.105	0.019	0.022	-0.026
9 109	0.00	0.00	470.00	470.00	54	0.072	0.096	0.046	0.071	0.080	0.104	0.054	0.079	0.023	0.026	-0.022	**-0.019**	0.105	0.107	0.060	0.062	-0.079	-0.054	-0.104	-0.080	-0.071	-0.046	-0.096	-0.072	-0.062	-0.060	-0.107	-0.105	0.019	0.022	-0.026
8 108	0.00	0.00	470.00	470.00	55	0.048	0.081	0.012	0.046	0.054	0.087	0.019	0.052	0.017	0.019	-0.013	-0.011	**0.128**	0.130	0.098	0.100	-0.052	-0.019	-0.087	-0.054	-0.046	-0.012	-0.081	-0.048	-0.100	-0.098	-0.130	-0.128	0.011	0.013	-0.019
8 108	0.00	0.00	470.00	470.00	56	0.048	0.081	0.012	0.046	0.054	0.087	0.019	0.052	0.017	0.019	-0.013	-0.011	0.128	**0.130**	0.098	0.100	-0.052	-0.019	-0.087	-0.054	-0.046	-0.012	-0.081	-0.048	-0.100	-0.098	-0.130	-0.128	0.011	0.013	-0.019
8 108	0.00	0.00	470.00	470.00	57	0.048	0.081	0.012	0.046	0.054	0.087	0.019	0.052	0.017	0.019	-0.013	-0.011	0.128	0.130	**0.098**	0.100	-0.052	-0.019	-0.087	-0.054	-0.046	-0.012	-0.081	-0.048	-0.100	-0.098	-0.130	-0.128	0.011	0.013	-0.019
8 108	0.00	0.00	470.00	470.00	58	0.048	0.081	0.012	0.046	0.054	0.087	0.019	0.052	0.017	0.019	-0.013	-0.011	0.128	0.130	0.098	**0.100**	-0.052	-0.019	-0.087	-0.054	-0.046	-0.012	-0.081	-0.048	-0.100	-0.098	-0.130	-0.128	0.011	0.013	-0.019
9 109	0.00	0.00	470.00	470.00	59	0.072	0.096	0.046	0.071	0.080	0.104	0.054	0.079	0.023	0.026	-0.022	-0.019	0.105	0.107	0.060	0.062	**-0.079**	-0.054	-0.104	-0.080	-0.071	-0.046	-0.096	-0.072	-0.062	-0.060	-0.107	-0.105	0.019	0.022	-0.026
9 109	0.00	0.00	470.00	470.00	60	0.072	0.096	0.046	0.071	0.080	0.104	0.054	0.079	0.023	0.026	-0.022	-0.019	0.105	0.107	0.060	0.062	-0.079	**-0.054**	-0.104	-0.080	-0.071	-0.046	-0.096	-0.072	-0.062	-0.060	-0.107	-0.105	0.019	0.022	-0.026
12 112	0.00	0.00	470.00	470.00	61	0.072	0.096	0.046	0.070	0.081	0.104	0.054	0.078	0.026	0.029	-0.019	-0.016	0.105	0.108	0.060	0.063	-0.078	-0.054	**-0.104**	-0.081	-0.070	-0.046	-0.096	-0.072	-0.063	-0.060	-0.108	-0.105	0.016	0.019	-0.029
12 112	0.00	0.00	470.00	470.00	62	0.072	0.096	0.046	0.070	0.081	0.104	0.054	0.078	0.026	0.029	-0.019	-0.016	0.105	0.108	0.060	0.063	-0.078	-0.054	-0.104	**-0.081**	-0.070	-0.046	-0.096	-0.072	-0.063	-0.060	-0.108	-0.105	0.016	0.019	-0.029
9 109	0.00	0.00	470.00	470.00	63	0.072	0.096	0.046	0.071	0.080	0.104	0.054	0.079	0.023	0.026	-0.022	-0.019	0.105	0.107	0.060	0.062	-0.079	-0.054	-0.104	-0.080	**-0.071**	-0.046	-0.096	-0.072	-0.062	-0.060	-0.107	-0.105	0.019	0.022	-0.026
9 109	0.00	0.00	470.00	470.00	64	0.072	0.096	0.046	0.071	0.080	0.104	0.054	0.079	0.023	0.026	-0.022	-0.019	0.105	0.107	0.060	0.062	-0.079	-0.054	-0.104	-0.080	-0.071	**-0.046**	-0.096	-0.072	-0.062	-0.060	-0.107	-0.105	0.019	0.022	-0.026
12 112	0.00	0.00	470.00	470.00	65	0.072	0.096	0.046	0.070	0.081	0.104	0.054	0.078	0.026	0.029	-0.019	-0.016	0.105	0.108	0.060	0.063	-0.078	-0.054	-0.104	-0.081	-0.070	-0.046	**-0.096**	-0.072	-0.063	-0.060	-0.108	-0.105	0.016	0.019	-0.029
12 112	0.00	0.00	470.00	470.00	66	0.072	0.096	0.046	0.070	0.081	0.104	0.054	0.078	0.026	0.029	-0.019	-0.016	0.105	0.108	0.060	0.063	-0.078	-0.054	-0.104	-0.081	-0.070	-0.046	-0.096	**-0.072**	-0.063	-0.060	-0.108	-0.105	0.016	0.019	-0.029
8 108	0.00	0.00	470.00	470.00	67	0.048	0.081	0.012	0.046	0.054	0.087	0.019	0.052	0.017	0.019	-0.013	-0.011	0.128	0.130	0.098	0.100	-0.052	-0.019	-0.087	-0.054	-0.046	-0.012	-0.081	-0.048	**-0.100**	-0.098	-0.130	-0.128	0.011	0.013	-0.019
8 108	0.00	0.00	470.00	470.00	68	0.048	0.081	0.012	0.046	0.054	0.087	0.019	0.052	0.017	0.019	-0.013	-0.011	0.128	0.130	0.098	0.100	-0.052	-0.019	-0.087	-0.054	-0.046	-0.012	-0.081	-0.048	-0.100	**-0.098**	-0.130	-0.128	0.011	0.013	-0.019
8 108	0.00	0.00	470.00	470.00	69	0.048	0.081	0.012	0.046	0.054	0.087	0.019	0.052	0.017	0.019	-0.013	-0.011	0.128	0.130	0.098	0.100	-0.052	-0.019	-0.087	-0.054	-0.046	-0.012	-0.081	-0.048	-0.100	-0.098	**-0.130**	-0.128	0.011	0.013	-0.019
8 108	0.00	0.00	470.00	470.00	70	0.048	0.081	0.012	0.046	0.054	0.087	0.019	0.052	0.017	0.019	-0.013	-0.011	0.128	0.130	0.098	0.100	-0.052	-0.019	-0.087	-0.054	-0.046	-0.012	-0.081	-0.048	-0.100	-0.098	-0.130	**-0.128**	0.011	0.013	-0.019
9 109	0.00	0.00	470.00	470.00	71	0.072	0.096	0.046	0.071	0.080	0.104	0.054	0.079	0.023	0.026	-0.022	-0.019	0.105	0.107	0.060	0.062	-0.079	-0.054	-0.104	-0.080	-0.071	-0.046	-0.096	-0.072	-0.062	-0.060	-0.107	-0.105	**0.019**	0.022	-0.026
9 109	0.00	0.00	470.00	470.00	72	0.072	0.096	0.046	0.071	0.080	0.104	0.054	0.079	0.023	0.026	-0.022	-0.019	0.105	0.107	0.060	0.062	-0.079	-0.054	-0.104	-0.080	-0.071	-0.046	-0.096	-0.072	-0.062	-0.060	-0.107	-0.105	0.019	**0.022**	-0.026
12 112	0.00	0.00	470.00	470.00	73	0.072	0.096	0.046	0.070	0.081	0.104	0.054	0.078	0.026	0.029	-0.019	-0.016	0.105	0.108	0.060	0.063	-0.078	-0.054	-0.104	-0.081	-0.070	-0.046	-0.096	-0.072	-0.063	-0.060	-0.108	-0.105	0.016	0.019	**-0.029**

12 112	0.00	0.00	470.00	470.00	74	0.072	0.096	0.046	0.070	0.081	0.104	0.054	0.078	0.026	0.029	-0.019	-0.016	0.105	0.108	0.060	0.063	-0.078	-0.054	-0.104	-0.081	-0.070	-0.046	-0.096	-0.072	-0.063	-0.060	-0.108	-0.105	0.016	0.019	-0.029

du/H x 1000 Max in direzione U_y

Nodi	dx [cm]	dy [cm]	dz [cm]	L [cm]	Comb.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
1 101	0.00	0.00	470.00	470.00	43	**0.083**	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
1 101	0.00	0.00	470.00	470.00	44	0.083	**0.093**	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
4 104	0.00	0.00	470.00	470.00	45	-0.043	-0.058	**-0.102**	-0.117	-0.051	-0.066	-0.110	-0.125	0.099	0.097	0.150	0.147	0.049	0.047	0.100	0.097	0.125	0.110	0.066	0.051	0.117	0.102	0.058	0.043	-0.097	-0.100	-0.047	-0.049	-0.147	-0.150	-0.097
4 104	0.00	0.00	470.00	470.00	46	-0.043	-0.058	-0.102	**-0.117**	-0.051	-0.066	-0.110	-0.125	0.099	0.097	0.150	0.147	0.049	0.047	0.100	0.097	0.125	0.110	0.066	0.051	0.117	0.102	0.058	0.043	-0.097	-0.100	-0.047	-0.049	-0.147	-0.150	-0.097
1 101	0.00	0.00	470.00	470.00	47	0.083	0.093	-0.003	0.007	**0.099**	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
1 101	0.00	0.00	470.00	470.00	48	0.083	0.093	-0.003	0.007	0.099	**0.109**	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
4 104	0.00	0.00	470.00	470.00	49	-0.043	-0.058	-0.102	-0.117	-0.051	-0.066	**-0.110**	-0.125	0.099	0.097	0.150	0.147	0.049	0.047	0.100	0.097	0.125	0.110	0.066	0.051	0.117	0.102	0.058	0.043	-0.097	-0.100	-0.047	-0.049	-0.147	-0.150	-0.097
4 104	0.00	0.00	470.00	470.00	50	-0.043	-0.058	-0.102	-0.117	-0.051	-0.066	-0.110	**-0.125**	0.099	0.097	0.150	0.147	0.049	0.047	0.100	0.097	0.125	0.110	0.066	0.051	0.117	0.102	0.058	0.043	-0.097	-0.100	-0.047	-0.049	-0.147	-0.150	-0.097
1 101	0.00	0.00	470.00	470.00	51	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	**0.139**	0.144	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
1 101	0.00	0.00	470.00	470.00	52	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	**0.144**	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
4 104	0.00	0.00	470.00	470.00	53	-0.043	-0.058	-0.102	-0.117	-0.051	-0.066	-0.110	-0.125	0.099	0.097	**0.150**	0.147	0.049	0.047	0.100	0.097	0.125	0.110	0.066	0.051	0.117	0.102	0.058	0.043	-0.097	-0.100	-0.047	-0.049	-0.147	-0.150	-0.097
4 104	0.00	0.00	470.00	470.00	54	-0.043	-0.058	-0.102	-0.117	-0.051	-0.066	-0.110	-0.125	0.099	0.097	0.150	**0.147**	0.049	0.047	0.100	0.097	0.125	0.110	0.066	0.051	0.117	0.102	0.058	0.043	-0.097	-0.100	-0.047	-0.049	-0.147	-0.150	-0.097
1 101	0.00	0.00	470.00	470.00	55	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	**0.173**	0.177	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
1 101	0.00	0.00	470.00	470.00	56	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	**0.177**	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
1 101	0.00	0.00	470.00	470.00	57	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	**0.141**	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
1 101	0.00	0.00	470.00	470.00	58	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	0.141	**0.146**	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
4 104	0.00	0.00	470.00	470.00	59	-0.043	-0.058	-0.102	-0.117	-0.051	-0.066	-0.110	-0.125	0.099	0.097	0.150	0.147	0.049	0.047	0.100	0.097	**0.125**	0.110	0.066	0.051	0.117	0.102	0.058	0.043	-0.097	-0.100	-0.047	-0.049	-0.147	-0.150	-0.097
4 104	0.00	0.00	470.00	470.00	60	-0.043	-0.058	-0.102	-0.117	-0.051	-0.066	-0.110	-0.125	0.099	0.097	0.150	0.147	0.049	0.047	0.100	0.097	0.125	**0.110**	0.066	0.051	0.117	0.102	0.058	0.043	-0.097	-0.100	-0.047	-0.049	-0.147	-0.150	-0.097

1	0.00	0.00	470.00	470.00	61	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	**-0.109**	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
101																																								
1	0.00	0.00	470.00	470.00	62	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	-0.109	**-0.099**	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
101																																								
4	0.00	0.00	470.00	470.00	63	-0.043	-0.058	-0.102	-0.117	-0.051	-0.066	-0.110	-0.125	0.099	0.097	0.150	0.147	0.049	0.047	0.100	0.097	0.125	0.110	0.066	0.051	**0.117**	0.102	0.058	0.043	-0.097	-0.100	-0.047	-0.049	-0.147	-0.150	-0.097
104																																								
4	0.00	0.00	470.00	470.00	64	-0.043	-0.058	-0.102	-0.117	-0.051	-0.066	-0.110	-0.125	0.099	0.097	0.150	0.147	0.049	0.047	0.100	0.097	0.125	0.110	0.066	0.051	0.117	**0.102**	0.058	0.043	-0.097	-0.100	-0.047	-0.049	-0.147	-0.150	-0.097
104																																								
1	0.00	0.00	470.00	470.00	65	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	**-0.093**	-0.083	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
101																																								
1	0.00	0.00	470.00	470.00	66	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	**-0.083**	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
101																																								
1	0.00	0.00	470.00	470.00	67	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	**-0.146**	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
101																																								
1	0.00	0.00	470.00	470.00	68	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	**-0.141**	-0.177	-0.173	-0.112	-0.107	-0.144
101																																								
1	0.00	0.00	470.00	470.00	69	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	**-0.177**	-0.173	-0.112	-0.107	-0.144
101																																								
1	0.00	0.00	470.00	470.00	70	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	-0.177	**-0.173**	-0.112	-0.107	-0.144
101																																								
4	0.00	0.00	470.00	470.00	71	-0.043	-0.058	-0.102	-0.117	-0.051	-0.066	-0.110	-0.125	0.099	0.097	0.150	0.147	0.049	0.047	0.100	0.097	0.125	0.110	0.066	0.051	0.117	0.102	0.058	0.043	-0.097	-0.100	-0.047	-0.049	**-0.147**	-0.150	-0.097
104																																								
4	0.00	0.00	470.00	470.00	72	-0.043	-0.058	-0.102	-0.117	-0.051	-0.066	-0.110	-0.125	0.099	0.097	0.150	0.147	0.049	0.047	0.100	0.097	0.125	0.110	0.066	0.051	0.117	0.102	0.058	0.043	-0.097	-0.100	-0.047	-0.049	-0.147	**-0.150**	-0.097
104																																								
1	0.00	0.00	470.00	470.00	73	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	**-0.144**
101																																								
1	0.00	0.00	470.00	470.00	74	0.083	0.093	-0.003	0.007	0.099	0.109	0.014	0.024	0.139	0.144	0.107	0.112	0.173	0.177	0.141	0.146	-0.024	-0.014	-0.109	-0.099	-0.007	0.003	-0.093	-0.083	-0.146	-0.141	-0.177	-0.173	-0.112	-0.107	-0.144
101																																								

du/H x 1000 Max in direzione U_z

Nodi	dx [cm]	dy [cm]	dz [cm]	L [cm]	Comb.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
12	0.00	0.00	470.00	470.00	43	**0.043**	0.044	0.046	0.047	0.003	0.004	0.007	0.008	0.005	-0.007	-0.010	-0.022	0.009	-0.003	-0.006	-0.018	-0.008	-0.007	-0.004	-0.003	-0.047	-0.046	-0.044	-0.043	0.018	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
12	0.00	0.00	470.00	470.00	44	0.043	**0.044**	0.046	0.047	0.003	0.004	0.007	0.008	0.005	-0.007	-0.010	-0.022	0.009	-0.003	-0.006	-0.018	-0.008	-0.007	-0.004	-0.003	-0.047	-0.046	-0.044	-0.043	0.018	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
12	0.00	0.00	470.00	470.00	45	0.043	0.044	**0.046**	0.047	0.003	0.004	0.007	0.008	0.005	-0.007	-0.010	-0.022	0.009	-0.003	-0.006	-0.018	-0.008	-0.007	-0.004	-0.003	-0.047	-0.046	-0.044	-0.043	0.018	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
12	0.00	0.00	470.00	470.00	46	0.043	0.044	0.046	**0.047**	0.003	0.004	0.007	0.008	0.005	-0.007	-0.010	-0.022	0.009	-0.003	-0.006	-0.018	-0.008	-0.007	-0.004	-0.003	-0.047	-0.046	-0.044	-0.043	0.018	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
9	0.00	0.00	470.00	470.00	47	-0.032	-0.032	-0.026	-0.027	**-0.006**	-0.006	-0.000	-0.001	-0.017	-0.009	-0.007	0.000	-0.019	-0.011	-0.009	-0.001	0.001	0.000	0.006	0.006	0.027	0.026	0.032	0.032	0.001	0.009	0.011	0.019	-0.000	0.007	0.009
109																																				

9	0.00	0.00	470.00	470.00	48	-0.032	-0.032	-0.026	-0.027	-0.006	**-0.006**	0.000	0.001	0.017	0.009	0.007	0.000	-0.019	-0.011	-0.009	-0.001	0.001	0.000	0.006	0.006	0.027	0.026	0.032	0.032	0.001	0.009	0.011	0.019	-0.000	0.007	0.009
109																																				
12	0.00	0.00	470.00	470.00	49	0.043	0.044	0.046	0.047	0.003	0.004	**0.007**	0.008	0.005	-0.007	-0.010	-0.022	0.009	-0.003	0.006	0.018	0.008	0.007	0.004	0.003	0.047	0.046	0.044	0.043	0.018	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
12	0.00	0.00	470.00	470.00	50	0.043	0.044	0.046	0.047	0.003	0.004	0.007	**0.008**	0.005	-0.007	-0.010	-0.022	0.009	-0.003	0.006	0.018	0.008	0.007	0.004	0.003	0.047	0.046	0.044	0.043	0.018	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
9	0.00	0.00	470.00	470.00	51	-0.032	-0.032	-0.026	-0.027	-0.006	-0.006	0.000	0.001	**-0.017**	-0.009	-0.007	0.000	-0.019	-0.011	-0.009	-0.001	0.001	0.000	0.006	0.006	0.027	0.026	0.032	0.032	0.001	0.009	0.011	0.019	-0.000	0.007	0.009
109																																				
9	0.00	0.00	470.00	470.00	52	-0.032	-0.032	-0.026	-0.027	-0.006	-0.006	0.000	0.001	0.017	**-0.009**	-0.007	0.000	-0.019	-0.011	-0.009	-0.001	0.001	0.000	0.006	0.006	0.027	0.026	0.032	0.032	0.001	0.009	0.011	0.019	-0.000	0.007	0.009
109																																				
12	0.00	0.00	470.00	470.00	53	0.043	0.044	0.046	0.047	0.003	0.004	0.007	0.008	0.005	-0.007	**-0.010**	-0.022	0.009	-0.003	0.006	0.018	0.008	0.007	0.004	0.003	0.047	0.046	0.044	0.043	0.018	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
12	0.00	0.00	470.00	470.00	54	0.043	0.044	0.046	0.047	0.003	0.004	0.007	0.008	0.005	-0.007	-0.010	**-0.022**	0.009	-0.003	0.006	0.018	0.008	0.007	0.004	0.003	0.047	0.046	0.044	0.043	0.018	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
9	0.00	0.00	470.00	470.00	55	-0.032	-0.032	-0.026	-0.027	-0.006	-0.006	0.000	0.001	0.017	-0.009	-0.007	0.000	**-0.019**	-0.011	-0.009	-0.001	0.001	0.000	0.006	0.006	0.027	0.026	0.032	0.032	0.001	0.009	0.011	0.019	-0.000	0.007	0.009
109																																				
9	0.00	0.00	470.00	470.00	56	-0.032	-0.032	-0.026	-0.027	-0.006	-0.006	0.000	0.001	0.017	-0.009	-0.007	0.000	-0.019	**-0.011**	-0.009	-0.001	0.001	0.000	0.006	0.006	0.027	0.026	0.032	0.032	0.001	0.009	0.011	0.019	-0.000	0.007	0.009
109																																				
9	0.00	0.00	470.00	470.00	57	-0.032	-0.032	-0.026	-0.027	-0.006	-0.006	0.000	0.001	0.017	-0.009	-0.007	0.000	-0.019	-0.011	**-0.009**	-0.001	0.001	0.000	0.006	0.006	0.027	0.026	0.032	0.032	0.001	0.009	0.011	0.019	-0.000	0.007	0.009
109																																				
12	0.00	0.00	470.00	470.00	58	0.043	0.044	0.046	0.047	0.003	0.004	0.007	0.008	0.005	-0.007	-0.010	-0.022	0.009	-0.003	0.006	**-0.018**	0.008	0.007	0.004	0.003	0.047	0.046	0.044	0.043	0.018	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
12	0.00	0.00	470.00	470.00	59	0.043	0.044	0.046	0.047	0.003	0.004	0.007	0.008	0.005	-0.007	-0.010	-0.022	0.009	-0.003	0.006	0.018	**-0.008**	0.007	0.004	0.003	0.047	0.046	0.044	0.043	0.018	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
12	0.00	0.00	470.00	470.00	60	0.043	0.044	0.046	0.047	0.003	0.004	0.007	0.008	0.005	-0.007	-0.010	-0.022	0.009	-0.003	0.006	0.018	0.008	**-0.007**	0.004	0.003	0.047	0.046	0.044	0.043	0.018	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
9	0.00	0.00	470.00	470.00	61	-0.032	-0.032	-0.026	-0.027	-0.006	-0.006	0.000	0.001	0.017	-0.009	-0.007	0.000	-0.019	-0.011	-0.009	-0.001	0.001	0.000	**0.006**	0.006	0.027	0.026	0.032	0.032	0.001	0.009	0.011	0.019	-0.000	0.007	0.009
109																																				
9	0.00	0.00	470.00	470.00	62	-0.032	-0.032	-0.026	-0.027	-0.006	-0.006	0.000	0.001	0.017	-0.009	-0.007	0.000	-0.019	-0.011	-0.009	-0.001	0.001	0.000	0.006	**0.006**	0.027	0.026	0.032	0.032	0.001	0.009	0.011	0.019	-0.000	0.007	0.009
109																																				
12	0.00	0.00	470.00	470.00	63	0.043	0.044	0.046	0.047	0.003	0.004	0.007	0.008	0.005	-0.007	-0.010	-0.022	0.009	-0.003	0.006	0.018	0.008	0.007	0.004	0.003	**-0.047**	0.046	0.044	0.043	0.018	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
12	0.00	0.00	470.00	470.00	64	0.043	0.044	0.046	0.047	0.003	0.004	0.007	0.008	0.005	-0.007	-0.010	-0.022	0.009	-0.003	0.006	0.018	0.008	0.007	0.004	0.003	0.047	**-0.046**	0.044	0.043	0.018	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
12	0.00	0.00	470.00	470.00	65	0.043	0.044	0.046	0.047	0.003	0.004	0.007	0.008	0.005	-0.007	-0.010	-0.022	0.009	-0.003	0.006	0.018	0.008	0.007	0.004	0.003	0.047	0.046	**-0.044**	0.043	0.018	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
12	0.00	0.00	470.00	470.00	66	0.043	0.044	0.046	0.047	0.003	0.004	0.007	0.008	0.005	-0.007	-0.010	-0.022	0.009	-0.003	0.006	0.018	0.008	0.007	0.004	0.003	0.047	0.046	0.044	**-0.043**	0.018	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
12	0.00	0.00	470.00	470.00	67	0.043	0.044	0.046	0.047	0.003	0.004	0.007	0.008	0.005	-0.007	-0.010	-0.022	0.009	-0.003	0.006	0.018	0.008	0.007	0.004	0.003	0.047	0.046	0.044	0.043	**0.018**	0.006	0.003	-0.009	0.022	0.010	0.007
112																																				
9	0.00	0.00	470.00	470.00	68	-0.032	-0.032	-0.026	-0.027	-0.006	-0.006	0.000	0.001	0.017	-0.009	-0.007	0.000	-0.019	-0.011	-0.009	-0.001	0.001	0.000	0.006	0.006	0.027	0.026	0.032	0.032	0.001	**0.009**	0.011	0.019	-0.000	0.007	0.009
109																																				
9	0.00	0.00	470.00	470.00	69	-0.032	-0.032	-0.026	-0.027	-0.006	-0.006	0.000	0.001	0.017	-0.009	-0.007	0.000	-0.019	-0.011	-0.009	-0.001	0.001	0.000	0.006	0.006	0.027	0.026	0.032	0.032	0.001	0.009	**0.011**	0.019	-0.000	0.007	0.009
109																																				

9 109	0.00	0.00	470.00	470.00	70	-0.032	-0.032	-0.026	-0.027	-0.006	-0.006	-0.000	-0.001	-0.017	-0.009	-0.007	0.000	-0.019	-0.011	-0.009	-0.001	0.001	0.000	0.006	0.006	0.027	0.026	0.032	0.032	0.001	0.009	0.011	**0.019**	-0.000	0.007	0.009
12 112	0.00	0.00	470.00	470.00	71	0.043	0.044	0.046	0.047	0.003	0.004	0.007	0.008	0.005	-0.007	-0.010	-0.022	0.009	-0.003	-0.006	-0.018	-0.008	-0.007	-0.004	-0.003	-0.047	-0.046	-0.044	-0.043	0.018	0.006	0.003	-0.009	**0.022**	0.010	0.007
12 112	0.00	0.00	470.00	470.00	72	0.043	0.044	0.046	0.047	0.003	0.004	0.007	0.008	0.005	-0.007	-0.010	-0.022	0.009	-0.003	-0.006	-0.018	-0.008	-0.007	-0.004	-0.003	-0.047	-0.046	-0.044	-0.043	0.018	0.006	0.003	-0.009	0.022	**0.010**	0.007
9 109	0.00	0.00	470.00	470.00	73	-0.032	-0.032	-0.026	-0.027	-0.006	-0.006	-0.000	-0.001	-0.017	-0.009	-0.007	0.000	-0.019	-0.011	-0.009	-0.001	0.001	0.000	0.006	0.006	0.027	0.026	0.032	0.032	0.001	0.009	0.011	0.019	-0.000	0.007	**0.009**
9 109	0.00	0.00	470.00	470.00	74	-0.032	-0.032	-0.026	-0.027	-0.006	-0.006	-0.000	-0.001	-0.017	-0.009	-0.007	0.000	-0.019	-0.011	-0.009	-0.001	0.001	0.000	0.006	0.006	0.027	0.026	0.032	0.032	0.001	0.009	0.011	0.019	-0.000	0.007	0.009

du/H x 1000 Max in direzione $|U_{xyz}|$

Nodi	dx [cm]	dy [cm]	dz [cm]	L [cm]	Comb.	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
9 109	0.00	0.00	470.00	470.00	43	**0.114**	0.137	0.053	0.076	0.127	0.151	0.056	0.082	0.142	0.146	0.109	0.114	0.202	0.207	0.153	0.158	0.082	0.056	0.151	0.127	0.076	0.053	0.137	0.114	0.158	0.153	0.207	0.202	0.114	0.109	0.146
9 109	0.00	0.00	470.00	470.00	44	0.114	**0.137**	0.053	0.076	0.127	0.151	0.056	0.082	0.142	0.146	0.109	0.114	0.202	0.207	0.153	0.158	0.082	0.056	0.151	0.127	0.076	0.053	0.137	0.114	0.158	0.153	0.207	0.202	0.114	0.109	0.146
12 112	0.00	0.00	470.00	470.00	45	0.094	0.120	**0.121**	0.144	0.096	0.124	0.123	0.147	0.103	0.101	0.151	0.149	0.117	0.117	0.116	0.117	0.147	0.123	0.124	0.096	0.144	0.121	0.120	0.094	0.117	0.116	0.117	0.117	0.149	0.151	0.101
12 112	0.00	0.00	470.00	470.00	46	0.094	0.120	0.121	**0.144**	0.096	0.124	0.123	0.147	0.103	0.101	0.151	0.149	0.117	0.117	0.116	0.117	0.147	0.123	0.124	0.096	0.144	0.121	0.120	0.094	0.117	0.116	0.117	0.117	0.149	0.151	0.101
9 109	0.00	0.00	470.00	470.00	47	0.114	0.137	0.053	0.076	**0.127**	0.151	0.056	0.082	0.142	0.146	0.109	0.114	0.202	0.207	0.153	0.158	0.082	0.056	0.151	0.127	0.076	0.053	0.137	0.114	0.158	0.153	0.207	0.202	0.114	0.109	0.146
9 109	0.00	0.00	470.00	470.00	48	0.114	0.137	0.053	0.076	0.127	**0.151**	0.056	0.082	0.142	0.146	0.109	0.114	0.202	0.207	0.153	0.158	0.082	0.056	0.151	0.127	0.076	0.053	0.137	0.114	0.158	0.153	0.207	0.202	0.114	0.109	0.146
12 112	0.00	0.00	470.00	470.00	49	0.094	0.120	0.121	0.144	0.096	0.124	**0.123**	0.147	0.103	0.101	0.151	0.149	0.117	0.117	0.116	0.117	0.147	0.123	0.124	0.096	0.144	0.121	0.120	0.094	0.117	0.116	0.117	0.117	0.149	0.151	0.101
12 112	0.00	0.00	470.00	470.00	50	0.094	0.120	0.121	0.144	0.096	0.124	0.123	**0.147**	0.103	0.101	0.151	0.149	0.117	0.117	0.116	0.117	0.147	0.123	0.124	0.096	0.144	0.121	0.120	0.094	0.117	0.116	0.117	0.117	0.149	0.151	0.101
9 109	0.00	0.00	470.00	470.00	51	0.114	0.137	0.053	0.076	0.127	0.151	0.056	0.082	**0.142**	0.146	0.109	0.114	0.202	0.207	0.153	0.158	0.082	0.056	0.151	0.127	0.076	0.053	0.137	0.114	0.158	0.153	0.207	0.202	0.114	0.109	0.146
9 109	0.00	0.00	470.00	470.00	52	0.114	0.137	0.053	0.076	0.127	0.151	0.056	0.082	0.142	**0.146**	0.109	0.114	0.202	0.207	0.153	0.158	0.082	0.056	0.151	0.127	0.076	0.053	0.137	0.114	0.158	0.153	0.207	0.202	0.114	0.109	0.146
12 112	0.00	0.00	470.00	470.00	53	0.094	0.120	0.121	0.144	0.096	0.124	0.123	0.147	0.103	0.101	**0.151**	0.149	0.117	0.117	0.116	0.117	0.147	0.123	0.124	0.096	0.144	0.121	0.120	0.094	0.117	0.116	0.117	0.117	0.149	0.151	0.101
12 112	0.00	0.00	470.00	470.00	54	0.094	0.120	0.121	0.144	0.096	0.124	0.123	0.147	0.103	0.101	0.151	**0.149**	0.117	0.117	0.116	0.117	0.147	0.123	0.124	0.096	0.144	0.121	0.120	0.094	0.117	0.116	0.117	0.117	0.149	0.151	0.101
5 105	0.00	0.00	470.00	470.00	55	0.095	0.123	0.013	0.046	0.113	0.139	0.023	0.057	0.140	0.145	0.108	0.113	**0.214**	0.220	0.171	0.176	0.057	0.023	0.139	0.113	0.046	0.013	0.123	0.095	0.176	0.171	0.220	0.214	0.113	0.108	0.145
5 105	0.00	0.00	470.00	470.00	56	0.095	0.123	0.013	0.046	0.113	0.139	0.023	0.057	0.140	0.145	0.108	0.113	0.214	**0.220**	0.171	0.176	0.057	0.023	0.139	0.113	0.046	0.013	0.123	0.095	0.176	0.171	0.220	0.214	0.113	0.108	0.145

5 105	0.00	0.00	470.00	470.00	57	0.095	0.123	0.013	0.046	0.113	0.139	0.023	0.057	0.140	0.145	0.108	0.113	0.214	0.220	**0.171**	0.176	0.057	0.023	0.139	0.113	0.046	0.013	0.123	0.095	0.176	0.171	0.220	0.214	0.113	0.108	0.145
5 105	0.00	0.00	470.00	470.00	58	0.095	0.123	0.013	0.046	0.113	0.139	0.023	0.057	0.140	0.145	0.108	0.113	0.214	0.220	0.171	**0.176**	0.057	0.023	0.139	0.113	0.046	0.013	0.123	0.095	0.176	0.171	0.220	0.214	0.113	0.108	0.145
12 112	0.00	0.00	470.00	470.00	59	0.094	0.120	0.121	0.144	0.096	0.124	0.123	0.147	0.103	0.101	0.151	0.149	0.117	0.117	0.116	0.117	**0.147**	0.123	0.124	0.096	0.144	0.121	0.120	0.094	0.117	0.116	0.117	0.117	0.149	0.151	0.101
12 112	0.00	0.00	470.00	470.00	60	0.094	0.120	0.121	0.144	0.096	0.124	0.123	0.147	0.103	0.101	0.151	0.149	0.117	0.117	0.116	0.117	0.147	**0.123**	0.124	0.096	0.144	0.121	0.120	0.094	0.117	0.116	0.117	0.117	0.149	0.151	0.101
9 109	0.00	0.00	470.00	470.00	61	0.114	0.137	0.053	0.076	0.127	0.151	0.056	0.082	0.142	0.146	0.109	0.114	0.202	0.207	0.153	0.158	0.082	0.056	**0.151**	0.127	0.076	0.053	0.137	0.114	0.158	0.153	0.207	0.202	0.114	0.109	0.146
9 109	0.00	0.00	470.00	470.00	62	0.114	0.137	0.053	0.076	0.127	0.151	0.056	0.082	0.142	0.146	0.109	0.114	0.202	0.207	0.153	0.158	0.082	0.056	0.151	**0.127**	0.076	0.053	0.137	0.114	0.158	0.153	0.207	0.202	0.114	0.109	0.146
12 112	0.00	0.00	470.00	470.00	63	0.094	0.120	0.121	0.144	0.096	0.124	0.123	0.147	0.103	0.101	0.151	0.149	0.117	0.117	0.116	0.117	0.147	0.123	0.124	0.096	**0.144**	0.121	0.120	0.094	0.117	0.116	0.117	0.117	0.149	0.151	0.101
12 112	0.00	0.00	470.00	470.00	64	0.094	0.120	0.121	0.144	0.096	0.124	0.123	0.147	0.103	0.101	0.151	0.149	0.117	0.117	0.116	0.117	0.147	0.123	0.124	0.096	0.144	**0.121**	0.120	0.094	0.117	0.116	0.117	0.117	0.149	0.151	0.101
9 109	0.00	0.00	470.00	470.00	65	0.114	0.137	0.053	0.076	0.127	0.151	0.056	0.082	0.142	0.146	0.109	0.114	0.202	0.207	0.153	0.158	0.082	0.056	0.151	0.127	0.076	0.053	**0.137**	0.114	0.158	0.153	0.207	0.202	0.114	0.109	0.146
9 109	0.00	0.00	470.00	470.00	66	0.114	0.137	0.053	0.076	0.127	0.151	0.056	0.082	0.142	0.146	0.109	0.114	0.202	0.207	0.153	0.158	0.082	0.056	0.151	0.127	0.076	0.053	0.137	**0.114**	0.158	0.153	0.207	0.202	0.114	0.109	0.146
5 105	0.00	0.00	470.00	470.00	67	0.095	0.123	0.013	0.046	0.113	0.139	0.023	0.057	0.140	0.145	0.108	0.113	0.214	0.220	0.171	0.176	0.057	0.023	0.139	0.113	0.046	0.013	0.123	0.095	**0.176**	0.171	0.220	0.214	0.113	0.108	0.145
5 105	0.00	0.00	470.00	470.00	68	0.095	0.123	0.013	0.046	0.113	0.139	0.023	0.057	0.140	0.145	0.108	0.113	0.214	0.220	0.171	0.176	0.057	0.023	0.139	0.113	0.046	0.013	0.123	0.095	0.176	**0.171**	0.220	0.214	0.113	0.108	0.145
5 105	0.00	0.00	470.00	470.00	69	0.095	0.123	0.013	0.046	0.113	0.139	0.023	0.057	0.140	0.145	0.108	0.113	0.214	0.220	0.171	0.176	0.057	0.023	0.139	0.113	0.046	0.013	0.123	0.095	0.176	0.171	**0.220**	0.214	0.113	0.108	0.145
5 105	0.00	0.00	470.00	470.00	70	0.095	0.123	0.013	0.046	0.113	0.139	0.023	0.057	0.140	0.145	0.108	0.113	0.214	0.220	0.171	0.176	0.057	0.023	0.139	0.113	0.046	0.013	0.123	0.095	0.176	0.171	0.220	**0.214**	0.113	0.108	0.145
12 112	0.00	0.00	470.00	470.00	71	0.094	0.120	0.121	0.144	0.096	0.124	0.123	0.147	0.103	0.101	0.151	0.149	0.117	0.117	0.116	0.117	0.147	0.123	0.124	0.096	0.144	0.121	0.120	0.094	0.117	0.116	0.117	0.117	**0.149**	0.151	0.101
12 112	0.00	0.00	470.00	470.00	72	0.094	0.120	0.121	0.144	0.096	0.124	0.123	0.147	0.103	0.101	0.151	0.149	0.117	0.117	0.116	0.117	0.147	0.123	0.124	0.096	0.144	0.121	0.120	0.094	0.117	0.116	0.117	0.117	0.149	**0.151**	0.101
9 109	0.00	0.00	470.00	470.00	73	0.114	0.137	0.053	0.076	0.127	0.151	0.056	0.082	0.142	0.146	0.109	0.114	0.202	0.207	0.153	0.158	0.082	0.056	0.151	0.127	0.076	0.053	0.137	0.114	0.158	0.153	0.207	0.202	0.114	0.109	**0.146**
9 109	0.00	0.00	470.00	470.00	74	0.114	0.137	0.053	0.076	0.127	0.151	0.056	0.082	0.142	0.146	0.109	0.114	0.202	0.207	0.153	0.158	0.082	0.056	0.151	0.127	0.076	0.053	0.137	0.114	0.158	0.153	0.207	0.202	0.114	0.109	0.146

Verifiche pali

Modalità di verifica

Il comportamento del palo è caratterizzato definendo il suo funzionamento per attrito laterale, resistenza di punta e rigidezza trasversale.

E' possibile tenere conto dell'efficienza del palo isolato o del gruppo di pali, sia alle azioni orizzontali che verticali.

E' possibile tenere conto della presenza di uno zoccolo rigido in sommità al palo o al gruppo di pali. Tale elemento influenza unicamente l'entità dei momenti di trasporto.

Le coordinate del centro del gruppo di pali possono essere coincidenti con il baricentro geometrico dei pali o fissate dall'utente.

La distanza minima di interferenza fra pali è misurata fra i centri ed è stabilita dall'Utente.

L'angolo di carico flessionale definisce la semiampiezza del cono di carico del palo nella direzione dello spostamento. Se non vi sono pali nel cono di carico a distanza inferiore alla distanza di interferenza minima il palo viene considerato isolato.

Viene condotta la verifica a presso/tensoflessione deviata dei pali in c.a. La verifica viene condotta in ciascuno dei conci in cui è diviso il fusto del palo.

Non viene condotta la verifica a taglio.

Dati Generali

- Lunghezza dei pali 9.00 [m]
- Altezza dello zoccolo di fondazione 0.50 [m]
- Centro della palificata 0.00 0.00 [m]
- Efficienza assiale dei pali esterni 1
- Efficienza assiale dei pali interni 1
- Efficienza flessionale dei pali esterni 1
- Efficienza flessionale dei pali interni 1
- Angolo di carico flessionale 90.00 [°]
- Distanza d'interazione flessionale 3.00 [m]

Sezione Circolare PALO FI 60 D=60 [cm]

- D 60 [cm]
- Circonferenza 188 [cm]
- Area 2827.43 [cm²]
- J 636173 [cm^4]
- Jt 1272345 [cm^4]
- X 1.00

Materiale

- E 300000.0 [kg/cm²]
- v 0.12

Dati relativi al terreno:

Dati per il calcolo della rigidezza assiale:

Variazione delle costanti di Winkler assiali con la profondita'

z [m]	kv [kg/cm³]
0.00	2.0

NON c'e' Rigidezza per punta

Dati per il calcolo della rigidezza flessionale:

Variazione delle costanti di Winkler laterali con la profondita'

z [m]	kh [kg/cm³]
0.00	2.0

Dati relativi al progetto-verifica delle armature:

Calcestruzzo *C 25/30* :

- fcd 141.7 [kg/cm²]

Acciaio *B 450 C* :

- fyd 3913.0 [kg/cm²]

Criterio di verifica:

- Copriferro : 7.50 [cm]
- Numero minimo di barre : 15
- Numero massimo di barre : 20
- Diametri [mm] : 16

Geometria palificata:

Palo	x [m]	y [m]	Inclinazione xy [°]	Inclinazione vert. [°] [°]
1	0.00	0.00	0.00	0.00

Azioni di verifica:

Cond.	Commento	x [m]	y [m]	Px [kN]	Py [kN]	Pz [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
1	nodo 12 (1)			0.18	4.03	-335.44	1674.2	-158.4	22.9
2	nodo 12 (2)			-0.45	3.94	-343.95	1623.8	17.9	23.0
3	nodo 12 (3)			-0.18	3.97	-340.19	1649.8	-59.6	23.1
4	nodo 12 (4)			15.96	25.64	-347.54	4262.0	-2852.9	-233.4
5	nodo 12 (5)			13.38	21.84	-329.43	3769.6	-2618.9	-324.8
6	nodo 12 (6)			22.19	15.57	-284.44	3138.6	-4169.8	-147.7
7	nodo 12 (7)			19.61	11.77	-266.33	2646.1	-3935.8	-239.2
8	nodo 12 (8)			17.17	25.65	-210.59	4131.4	-3101.0	-243.5
9	nodo 12 (9)			14.59	21.85	-192.48	3639.0	-2867.0	-335.0
10	nodo 12 (10)			23.40	15.58	-147.49	3008.0	-4417.9	-157.8
11	nodo 12 (11)			20.82	11.78	-129.38	2515.6	-4183.9	-249.3
12	nodo 12 (12)			-0.56	30.77	-395.42	4605.5	681.7	-49.6
13	nodo 12 (13)			-0.20	30.77	-354.33	4566.3	607.3	-52.6
14	nodo 12 (14)			-11.44	21.29	-396.33	3323.2	2703.0	105.2
15	nodo 12 (15)			-11.08	21.29	-355.24	3284.1	2628.5	102.2
16	nodo 12 (16)			-9.18	18.11	-335.05	2964.0	1461.8	-354.4
17	nodo 12 (17)			-8.81	18.12	-293.96	2924.9	1387.4	-357.5
18	nodo 12 (18)			-20.06	8.64	-335.96	1681.8	3483.0	-199.6

19	nodo 12 (19)	-19.69	8.64	-294.88	1642.6	3408.6	-202.7
20	nodo 12 (20)	-20.30	-5.94	-350.58	-12.2	3884.5	282.6
21	nodo 12 (21)	-22.88	-9.74	-332.47	-504.7	4118.5	191.2
22	nodo 12 (22)	-14.07	-16.02	-287.48	-1135.6	2567.6	368.3
23	nodo 12 (23)	-16.65	-19.81	-269.37	-1628.1	2801.6	276.8
24	nodo 12 (24)	-19.09	-5.93	-213.63	-142.8	3636.4	272.5
25	nodo 12 (25)	-21.68	-9.73	-195.52	-635.2	3870.4	181.0
26	nodo 12 (26)	-12.86	-16.00	-150.53	-1266.2	2319.5	358.2
27	nodo 12 (27)	-15.44	-19.80	-132.41	-1758.6	2553.5	266.7
28	nodo 12 (28)	20.21	-2.80	-185.08	860.8	-3708.0	236.0
29	nodo 12 (29)	20.57	-2.80	-143.99	821.6	-3782.4	233.0
30	nodo 12 (30)	9.33	-12.28	-185.99	-421.5	-1686.7	390.8
31	nodo 12 (31)	9.70	-12.27	-144.91	-460.7	-1761.2	387.8
32	nodo 12 (32)	11.60	-15.45	-124.71	-780.7	-2927.9	-68.8
33	nodo 12 (33)	11.96	-15.45	-83.62	-819.9	-3002.3	-71.9
34	nodo 12 (34)	0.72	-24.93	-125.62	-2063.0	-906.7	86.0
35	nodo 12 (35)	1.08	-24.93	-84.54	-2102.1	-981.1	82.9
36	nodo 12 (36)	0.05	3.00	-252.16	1260.4	-93.1	17.2
37	nodo 12 (37)	-0.37	2.94	-257.83	1226.9	24.5	17.3
38	nodo 12 (38)	-0.19	2.96	-255.32	1244.2	-27.2	17.4
39	nodo 12 (39)	0.36	2.99	-243.23	1272.8	-180.2	16.9
40	nodo 12 (40)	0.09	2.89	-242.25	1238.3	-102.7	16.7
41	nodo 12 (41)	0.26	2.92	-239.98	1251.7	-149.7	16.7
42	nodo 12 (42)	0.26	2.92	-239.98	1251.7	-149.7	16.7
43	nodo 11 (1)	-0.62	13.53	-340.31	4579.5	91.1	3.3
44	nodo 11 (2)	-1.01	13.72	-342.50	4612.7	197.5	3.2
45	nodo 11 (3)	-0.85	13.63	-341.58	4603.9	153.4	3.4
46	nodo 11 (4)	18.22	26.33	-235.34	5599.5	-3493.3	-249.3
47	nodo 11 (5)	24.80	23.92	-228.41	5286.3	-4897.0	-341.4
48	nodo 11 (6)	14.12	13.09	-208.41	3744.1	-2833.7	-160.5
49	nodo 11 (7)	20.71	10.69	-201.48	3430.9	-4237.4	-252.6
50	nodo 11 (8)	19.59	27.55	-233.09	5752.5	-3789.6	-259.8
51	nodo 11 (9)	26.18	25.15	-226.16	5439.3	-5193.3	-351.9
52	nodo 11 (10)	15.50	14.32	-206.16	3897.1	-3130.0	-171.0
53	nodo 11 (11)	22.08	11.91	-199.23	3584.0	-4533.8	-263.1
54	nodo 11 (12)	1.40	38.37	-292.86	7289.4	123.4	-68.0
55	nodo 11 (13)	1.81	38.74	-292.18	7335.3	34.5	-71.2
56	nodo 11 (14)	-10.94	32.70	-308.99	6523.4	2568.2	87.2
57	nodo 11 (15)	-10.53	33.07	-308.31	6569.3	2479.3	84.0
58	nodo 11 (16)	23.35	30.37	-269.77	6245.4	-4555.6	-375.0
59	nodo 11 (17)	23.76	30.74	-269.09	6291.4	-4644.5	-378.1
60	nodo 11 (18)	11.01	24.69	-285.89	5479.5	-2110.8	-219.8

61	nodo 11 (19)	11.42	25.06	-285.22	5525.4	-2199.7	-222.9
62	nodo 11 (20)	-22.92	7.41	-289.09	3046.2	4656.0	268.0
63	nodo 11 (21)	-16.34	5.01	-282.17	2733.0	3252.3	175.9
64	nodo 11 (22)	-27.02	-5.82	-262.17	1190.8	5315.6	356.7
65	nodo 11 (23)	-20.43	-8.22	-255.24	877.6	3911.8	264.7
66	nodo 11 (24)	-21.55	8.63	-286.84	3199.2	4359.7	257.5
67	nodo 11 (25)	-14.96	6.23	-279.92	2886.0	2955.9	165.4
68	nodo 11 (26)	-25.65	-4.60	-259.92	1343.8	5019.2	346.2
69	nodo 11 (27)	-19.06	-7.00	-252.99	1030.6	3615.5	254.2
70	nodo 11 (28)	-12.26	-5.73	-203.11	1104.8	2322.0	227.8
71	nodo 11 (29)	-11.85	-5.37	-202.44	1150.7	2233.1	224.7
72	nodo 11 (30)	-24.60	-11.41	-219.24	338.8	4766.8	383.0
73	nodo 11 (31)	-24.19	-11.04	-218.56	384.7	4677.9	379.9
74	nodo 11 (32)	9.69	-13.74	-180.02	60.8	-2357.1	-79.1
75	nodo 11 (33)	10.10	-13.37	-179.34	106.7	-2446.0	-82.3
76	nodo 11 (34)	-2.65	-19.41	-196.15	-705.2	87.7	76.1
77	nodo 11 (35)	-2.24	-19.05	-195.47	-659.3	-1.2	72.9
78	nodo 11 (36)	-0.54	10.13	-254.63	3440.1	90.8	2.5
79	nodo 11 (37)	-0.80	10.25	-256.08	3462.3	161.8	2.4
80	nodo 11 (38)	-0.70	10.20	-255.47	3456.4	132.4	2.5
81	nodo 11 (39)	-0.35	9.83	-248.67	3366.5	40.5	2.5
82	nodo 11 (40)	-0.52	9.71	-244.75	3323.9	89.5	2.4
83	nodo 11 (41)	-0.42	9.66	-244.16	3315.1	61.1	2.4
84	nodo 11 (42)	-0.42	9.66	-244.16	3315.1	61.1	2.4
85	nodo 10 (1)	0.51	13.68	-349.80	4629.5	-229.5	-1.5
86	nodo 10 (2)	0.91	13.89	-353.24	4667.9	-359.1	-1.6
87	nodo 10 (3)	0.72	13.80	-351.80	4658.4	-301.0	-1.4
88	nodo 10 (4)	20.60	11.23	-283.02	3429.4	-4175.0	-256.8
89	nodo 10 (5)	25.82	10.95	-284.95	3365.2	-5186.4	-346.0
90	nodo 10 (6)	12.55	-4.22	-246.82	1314.8	-2347.2	-159.8
91	nodo 10 (7)	17.77	-4.49	-248.75	1250.6	-3358.6	-249.0
92	nodo 10 (8)	22.14	8.92	-288.99	3162.6	-4524.3	-267.8
93	nodo 10 (9)	27.35	8.64	-290.92	3098.5	-5535.7	-356.9
94	nodo 10 (10)	14.08	-6.53	-252.79	1048.1	-2696.5	-170.8
95	nodo 10 (11)	19.30	-6.81	-254.72	983.9	-3707.9	-259.9
96	nodo 10 (12)	10.71	34.06	-312.22	6678.0	-2595.6	-89.7
97	nodo 10 (13)	11.17	33.36	-314.01	6597.9	-2700.4	-93.0
98	nodo 10 (14)	-1.07	38.59	-301.20	7363.7	-320.6	64.7
99	nodo 10 (15)	-0.61	37.89	-302.99	7283.7	-425.4	61.4
100	nodo 10 (16)	28.10	33.13	-318.67	6464.1	-5967.0	-386.8
101	nodo 10 (17)	28.56	32.44	-320.46	6384.1	-6071.7	-390.1
102	nodo 10 (18)	16.33	37.66	-307.64	7149.9	-3692.0	-232.4

103	nodo 10 (19)	16.79	36.97	-309.43	7069.9	-3796.7	-235.7
104	nodo 10 (20)	-18.65	26.34	-246.27	5715.3	3408.3	257.8
105	nodo 10 (21)	-13.43	26.06	-248.20	5651.1	2396.9	168.7
106	nodo 10 (22)	-26.71	10.89	-210.07	3600.7	5236.1	354.8
107	nodo 10 (23)	-21.49	10.61	-212.00	3536.5	4224.7	265.7
108	nodo 10 (24)	-17.12	24.03	-252.24	5448.6	3059.0	246.9
109	nodo 10 (25)	-11.90	23.75	-254.17	5384.4	2047.6	157.8
110	nodo 10 (26)	-25.17	8.58	-216.04	3334.0	4886.8	343.9
111	nodo 10 (27)	-19.96	8.30	-217.97	3269.8	3875.4	254.8
112	nodo 10 (28)	-16.14	-17.44	-191.55	-370.7	3497.1	233.6
113	nodo 10 (29)	-15.68	-18.13	-193.34	-450.7	3392.3	230.4
114	nodo 10 (30)	-27.92	-12.90	-180.53	315.1	5772.1	388.0
115	nodo 10 (31)	-27.46	-13.60	-182.32	235.1	5667.3	384.8
116	nodo 10 (32)	1.26	-18.36	-198.00	-584.5	125.8	-63.5
117	nodo 10 (33)	1.72	-19.06	-199.79	-664.5	21.0	-66.7
118	nodo 10 (34)	-10.52	-13.83	-186.97	101.3	2400.8	90.9
119	nodo 10 (35)	-10.06	-14.52	-188.76	21.2	2296.0	87.6
120	nodo 10 (36)	0.45	10.24	-261.79	3478.1	-195.0	-1.1
121	nodo 10 (37)	0.72	10.38	-264.09	3503.7	-281.4	-1.1
122	nodo 10 (38)	0.60	10.32	-263.13	3497.3	-242.6	-1.0
123	nodo 10 (39)	0.25	9.94	-255.00	3401.0	-129.2	-1.1
124	nodo 10 (40)	0.43	9.82	-251.41	3359.9	-184.4	-1.0
125	nodo 10 (41)	0.32	9.77	-250.49	3349.6	-149.8	-1.0
126	nodo 10 (42)	0.32	9.77	-250.49	3349.6	-149.8	-1.0
127	nodo 9 (1)	0.05	4.34	-368.74	1770.4	-80.1	-24.6
128	nodo 9 (2)	0.73	4.27	-381.59	1725.7	-290.0	-25.2
129	nodo 9 (3)	0.42	4.31	-376.08	1755.7	-196.5	-24.8
130	nodo 9 (4)	17.91	-1.71	-257.58	234.5	-3376.6	-273.2
131	nodo 9 (5)	22.18	0.63	-263.47	521.7	-4119.9	-361.3
132	nodo 9 (6)	9.69	-18.19	-169.39	-1702.3	-1491.3	-173.5
133	nodo 9 (7)	13.96	-15.86	-175.29	-1415.1	-2234.6	-261.6
134	nodo 9 (8)	19.36	23.44	-360.08	243.8	-3707.0	-284.2
135	nodo 9 (9)	23.62	25.77	-365.98	531.0	-4450.3	-372.3
136	nodo 9 (10)	11.14	6.95	-271.90	-1693.0	-1821.7	-184.5
137	nodo 9 (11)	15.40	9.29	-277.80	-1405.8	-2565.0	-272.6
138	nodo 9 (12)	11.29	23.15	-385.65	3497.3	-2750.6	-111.9
139	nodo 9 (13)	11.72	30.69	-416.41	3500.1	-2849.7	-115.1
140	nodo 9 (14)	1.22	22.75	-382.40	4641.5	-972.9	41.4
141	nodo 9 (15)	1.66	30.30	-413.16	4644.3	-1072.0	38.1
142	nodo 9 (16)	25.51	30.94	-405.32	4454.6	-5228.3	-405.5
143	nodo 9 (17)	25.94	38.48	-436.07	4457.4	-5327.4	-408.8
144	nodo 9 (18)	15.45	30.55	-402.07	5598.9	-3450.6	-252.3

145	nodo 9 (19)	15.88	38.09	-432.82	5601.7	-3549.7	-255.5
146	nodo 9 (20)	-15.64	-3.01	-246.74	4048.6	2549.1	237.5
147	nodo 9 (21)	-11.37	-0.68	-252.63	4335.8	1805.8	149.4
148	nodo 9 (22)	-23.86	-19.50	-158.55	2111.8	4434.4	337.2
149	nodo 9 (23)	-19.59	-17.16	-164.45	2399.0	3691.1	249.1
150	nodo 9 (24)	-14.20	22.13	-349.24	4057.9	2218.7	226.6
151	nodo 9 (25)	-9.93	24.47	-355.14	4345.1	1475.4	138.5
152	nodo 9 (26)	-22.42	5.64	-261.06	2121.1	4104.0	326.3
153	nodo 9 (27)	-18.15	7.98	-266.96	2408.3	3360.7	238.2
154	nodo 9 (28)	-16.11	-31.82	-91.72	-2958.8	3533.8	220.5
155	nodo 9 (29)	-15.68	-24.27	-122.47	-2956.1	3434.7	217.2
156	nodo 9 (30)	-26.18	-32.21	-88.47	-1814.6	5311.5	373.7
157	nodo 9 (31)	-25.75	-24.66	-119.22	-1811.8	5212.4	370.4
158	nodo 9 (32)	-1.89	-24.02	-111.38	-2001.5	1056.1	-73.1
159	nodo 9 (33)	-1.46	-16.48	-142.13	-1998.7	957.0	-76.4
160	nodo 9 (34)	-11.96	-24.42	-108.13	-857.3	2833.8	80.1
161	nodo 9 (35)	-11.52	-16.87	-138.88	-854.5	2734.7	76.8
162	nodo 9 (36)	0.13	3.23	-277.33	1333.9	-87.0	-18.4
163	nodo 9 (37)	0.58	3.19	-285.89	1304.1	-226.9	-18.9
164	nodo 9 (38)	0.37	3.21	-282.22	1324.1	-164.5	-18.6
165	nodo 9 (39)	-0.22	3.21	-265.52	1342.6	22.5	-17.8
166	nodo 9 (40)	0.06	3.12	-265.69	1309.5	-63.9	-17.7
167	nodo 9 (41)	-0.12	3.14	-262.27	1321.4	-8.0	-17.5
168	nodo 9 (42)	-0.12	3.14	-262.27	1321.4	-8.0	-17.5
169	nodo 4 (1)	2.57	-4.47	-389.54	-786.9	-805.1	2.1
170	nodo 4 (2)	2.48	-4.75	-391.21	-891.4	-789.2	1.8
171	nodo 4 (3)	2.54	-4.64	-391.14	-842.2	-802.2	2.1
172	nodo 4 (4)	17.44	18.42	-355.65	2200.4	-3284.5	-247.8
173	nodo 4 (5)	15.62	14.83	-361.60	1769.4	-2904.6	-339.0
174	nodo 4 (6)	19.56	9.08	-406.59	1287.4	-3768.3	-160.5
175	nodo 4 (7)	17.75	5.49	-412.54	856.4	-3388.4	-251.8
176	nodo 4 (8)	15.65	18.37	-363.05	2054.5	-2964.7	-258.4
177	nodo 4 (9)	13.84	14.79	-369.00	1623.5	-2584.8	-349.6
178	nodo 4 (10)	17.78	9.03	-413.99	1141.5	-3448.5	-171.1
179	nodo 4 (11)	15.97	5.45	-419.94	710.5	-3068.6	-262.4
180	nodo 4 (12)	6.10	22.90	-220.00	2336.8	-1246.2	-67.1
181	nodo 4 (13)	5.56	22.88	-222.22	2293.1	-1150.3	-70.3
182	nodo 4 (14)	-2.76	13.82	-158.39	1153.5	301.1	86.9
183	nodo 4 (15)	-3.30	13.81	-160.61	1109.7	397.0	83.8
184	nodo 4 (16)	0.07	10.95	-239.83	900.2	20.1	-371.2
185	nodo 4 (17)	-0.47	10.94	-242.05	856.4	116.0	-374.4
186	nodo 4 (18)	-8.80	1.88	-178.22	-283.1	1567.4	-217.2

187	nodo 4 (19)	-9.33	1.87	-180.45	-326.9	1663.3	-220.4
188	nodo 4 (20)	-12.11	-11.82	-150.30	-1744.0	1873.2	265.7
189	nodo 4 (21)	-13.92	-15.41	-156.25	-2175.0	2253.0	174.4
190	nodo 4 (22)	-9.98	-21.17	-201.24	-2657.0	1389.4	352.9
191	nodo 4 (23)	-11.79	-24.75	-207.19	-3088.0	1769.3	261.7
192	nodo 4 (24)	-13.89	-11.87	-157.71	-1889.9	2192.9	255.1
193	nodo 4 (25)	-15.71	-15.45	-163.66	-2320.9	2572.8	163.8
194	nodo 4 (26)	-11.77	-21.21	-208.65	-2802.9	1709.2	342.3
195	nodo 4 (27)	-13.58	-24.79	-214.60	-3233.9	2089.0	251.1
196	nodo 4 (28)	13.19	-8.24	-389.80	-706.6	-2858.7	223.7
197	nodo 4 (29)	12.66	-8.25	-392.02	-750.4	-2762.8	220.5
198	nodo 4 (30)	4.33	-17.31	-328.19	-1889.9	-1311.5	377.7
199	nodo 4 (31)	3.79	-17.33	-330.42	-1933.7	-1215.5	374.6
200	nodo 4 (32)	7.16	-20.19	-409.63	-2143.3	-1592.5	-80.4
201	nodo 4 (33)	6.62	-20.20	-411.85	-2187.0	-1496.6	-83.6
202	nodo 4 (34)	-1.71	-29.26	-348.02	-3326.6	-45.2	73.6
203	nodo 4 (35)	-2.24	-29.27	-350.25	-3370.3	50.7	70.4
204	nodo 4 (36)	1.94	-3.39	-293.72	-591.0	-606.2	1.6
205	nodo 4 (37)	1.88	-3.58	-294.84	-660.7	-595.7	1.4
206	nodo 4 (38)	1.92	-3.50	-294.79	-627.9	-604.3	1.6
207	nodo 4 (39)	1.96	-3.20	-288.86	-519.1	-607.3	1.7
208	nodo 4 (40)	1.90	-3.26	-285.57	-544.6	-593.5	1.6
209	nodo 4 (41)	1.93	-3.19	-285.12	-516.8	-597.7	1.7
210	nodo 4 (42)	1.93	-3.19	-285.12	-516.8	-597.7	1.7
211	nodo 3 (1)	0.35	-13.14	-415.13	-3345.5	-169.6	8.3
212	nodo 3 (2)	0.33	-12.94	-417.45	-3308.0	-176.2	8.5
213	nodo 3 (3)	0.35	-13.03	-417.37	-3318.3	-176.9	8.6
214	nodo 3 (4)	16.26	6.14	-320.37	-378.7	-2984.4	-247.0
215	nodo 3 (5)	14.23	3.94	-329.87	-631.8	-2526.0	-339.5
216	nodo 3 (6)	18.11	-6.46	-368.67	-2048.5	-3396.4	-158.5
217	nodo 3 (7)	16.08	-8.67	-378.17	-2301.6	-2937.9	-250.9
218	nodo 3 (8)	14.40	7.32	-325.52	-238.7	-2652.3	-257.6
219	nodo 3 (9)	12.37	5.11	-335.02	-491.8	-2193.9	-350.1
220	nodo 3 (10)	16.25	-5.28	-373.82	-1908.5	-3064.3	-169.1
221	nodo 3 (11)	14.22	-7.49	-383.32	-2161.6	-2605.9	-261.5
222	nodo 3 (12)	5.33	17.69	-220.83	1148.1	-1047.7	-64.0
223	nodo 3 (13)	4.77	18.04	-222.38	1190.1	-948.1	-67.2
224	nodo 3 (14)	-3.67	12.42	-191.77	492.0	559.1	92.2
225	nodo 3 (15)	-4.23	12.78	-193.32	534.0	658.7	89.0
226	nodo 3 (16)	-1.44	10.33	-252.51	304.6	480.4	-372.2
227	nodo 3 (17)	-2.00	10.68	-254.05	346.6	580.0	-375.4
228	nodo 3 (18)	-10.44	5.07	-223.45	-351.5	2087.2	-216.0

229	nodo 3 (19)	-11.00	5.42	-224.99	-309.5	2186.8	-219.2
230	nodo 3 (20)	-13.72	-11.41	-223.50	-2565.8	2371.7	273.6
231	nodo 3 (21)	-15.76	-13.62	-233.00	-2818.9	2830.1	181.1
232	nodo 3 (22)	-11.87	-24.01	-271.80	-4235.6	1959.7	362.1
233	nodo 3 (23)	-13.90	-26.22	-281.30	-4488.7	2418.1	269.7
234	nodo 3 (24)	-15.59	-10.23	-228.65	-2425.8	2703.7	263.0
235	nodo 3 (25)	-17.62	-12.44	-238.15	-2678.9	3162.2	170.5
236	nodo 3 (26)	-13.74	-22.84	-276.95	-4095.6	2291.7	351.5
237	nodo 3 (27)	-15.77	-25.04	-286.45	-4348.7	2750.2	259.1
238	nodo 3 (28)	11.49	-24.32	-381.83	-4417.9	-2421.0	231.2
239	nodo 3 (29)	10.93	-23.97	-383.37	-4375.9	-2321.4	228.0
240	nodo 3 (30)	2.50	-29.58	-352.77	-5074.0	-814.2	387.4
241	nodo 3 (31)	1.94	-29.23	-354.31	-5032.0	-714.6	384.2
242	nodo 3 (32)	4.72	-31.68	-413.50	-5261.4	-892.9	-77.0
243	nodo 3 (33)	4.16	-31.32	-415.05	-5219.4	-793.3	-80.2
244	nodo 3 (34)	-4.27	-36.94	-384.44	-5917.5	713.9	79.2
245	nodo 3 (35)	-4.83	-36.59	-385.99	-5875.5	813.5	76.0
246	nodo 3 (36)	0.25	-9.78	-312.95	-2473.6	-126.2	6.3
247	nodo 3 (37)	0.25	-9.64	-314.50	-2448.5	-130.6	6.4
248	nodo 3 (38)	0.26	-9.70	-314.44	-2455.4	-131.1	6.4
249	nodo 3 (39)	0.25	-9.68	-307.40	-2431.2	-119.4	6.1
250	nodo 3 (40)	0.24	-9.40	-304.03	-2353.7	-118.9	6.1
251	nodo 3 (41)	0.25	-9.45	-303.41	-2363.7	-117.1	6.0
252	nodo 3 (42)	0.25	-9.45	-303.41	-2363.7	-117.1	6.0
253	nodo 2 (1)	-0.33	-13.02	-425.65	-3302.0	-0.6	-6.8
254	nodo 2 (2)	-0.34	-12.82	-429.12	-3265.0	-7.8	-7.1
255	nodo 2 (3)	-0.33	-12.89	-428.78	-3270.0	-9.2	-6.8
256	nodo 2 (4)	15.56	-8.04	-254.42	-2315.6	-2803.9	-262.3
257	nodo 2 (5)	13.60	-8.39	-252.73	-2398.1	-2359.6	-351.8
258	nodo 2 (6)	17.82	-22.58	-314.49	-4161.3	-3326.4	-163.6
259	nodo 2 (7)	15.86	-22.93	-312.80	-4243.7	-2882.1	-253.1
260	nodo 2 (8)	13.71	-10.17	-244.33	-2530.8	-2476.0	-273.4
261	nodo 2 (9)	11.74	-10.52	-242.64	-2613.2	-2031.6	-362.9
262	nodo 2 (10)	15.97	-24.71	-304.40	-4376.4	-2998.5	-174.8
263	nodo 2 (11)	14.01	-25.06	-302.71	-4458.8	-2554.1	-264.3
264	nodo 2 (12)	4.06	13.62	-205.22	598.5	-725.0	-95.9
265	nodo 2 (13)	3.51	12.98	-202.19	533.9	-626.6	-99.3
266	nodo 2 (14)	-4.94	17.93	-224.45	1232.7	880.5	59.2
267	nodo 2 (15)	-5.49	17.30	-221.42	1168.2	978.9	55.9
268	nodo 2 (16)	-2.48	12.47	-199.59	323.7	756.3	-394.3
269	nodo 2 (17)	-3.04	11.83	-196.57	259.2	854.6	-397.6
270	nodo 2 (18)	-11.49	16.79	-218.83	958.0	2361.7	-239.1

271	nodo 2 (19)	-12.04	16.15	-215.80	893.5	2460.1	-242.5
272	nodo 2 (20)	-14.44	6.35	-318.54	-201.4	2547.7	254.8
273	nodo 2 (21)	-16.41	6.01	-316.85	-283.9	2992.0	165.3
274	nodo 2 (22)	-12.18	-8.19	-378.61	-2047.1	2025.2	353.5
275	nodo 2 (23)	-14.14	-8.53	-376.92	-2129.5	2469.5	264.0
276	nodo 2 (24)	-16.29	4.22	-308.45	-416.5	2875.6	243.6
277	nodo 2 (25)	-18.26	3.88	-306.76	-499.0	3320.0	154.1
278	nodo 2 (26)	-14.03	-10.32	-368.52	-2262.2	2353.1	342.3
279	nodo 2 (27)	-15.99	-10.66	-366.83	-2344.6	2797.5	252.8
280	nodo 2 (28)	11.61	-34.85	-405.45	-5553.8	-2466.6	233.0
281	nodo 2 (29)	11.05	-35.49	-402.42	-5618.3	-2368.2	229.7
282	nodo 2 (30)	2.61	-30.54	-424.68	-4919.5	-861.1	388.1
283	nodo 2 (31)	2.05	-31.17	-421.66	-4984.0	-762.7	384.8
284	nodo 2 (32)	5.06	-36.00	-399.82	-5828.5	-985.4	-65.3
285	nodo 2 (33)	4.51	-36.64	-396.80	-5893.0	-887.0	-68.7
286	nodo 2 (34)	-3.94	-31.68	-419.06	-5194.2	620.1	89.8
287	nodo 2 (35)	-4.50	-32.32	-416.03	-5258.8	718.5	86.5
288	nodo 2 (36)	-0.24	-9.68	-320.93	-2440.2	-3.4	-5.1
289	nodo 2 (37)	-0.25	-9.55	-323.24	-2415.5	-8.1	-5.3
290	nodo 2 (38)	-0.24	-9.60	-323.01	-2418.8	-9.1	-5.1
291	nodo 2 (39)	-0.23	-9.58	-314.62	-2397.5	-0.9	-4.8
292	nodo 2 (40)	-0.22	-9.30	-311.55	-2320.3	-5.1	-4.8
293	nodo 2 (41)	-0.22	-9.35	-310.62	-2330.1	-3.2	-4.7
294	nodo 2 (42)	-0.22	-9.35	-310.62	-2330.1	-3.2	-4.7
295	nodo 1 (1)	-2.71	-4.95	-420.34	-916.5	677.0	-0.7
296	nodo 1 (2)	-2.65	-5.30	-425.40	-1044.5	650.6	-0.6
297	nodo 1 (3)	-2.68	-5.14	-424.53	-979.6	662.2	-0.6
298	nodo 1 (4)	13.77	-8.45	-200.59	-1730.1	-2273.8	-254.4
299	nodo 1 (5)	11.87	-6.15	-183.53	-1454.5	-1872.6	-342.7
300	nodo 1 (6)	15.44	-23.94	-276.22	-3381.0	-2597.3	-156.8
301	nodo 1 (7)	13.55	-21.65	-259.16	-3105.4	-2196.2	-245.1
302	nodo 1 (8)	11.96	15.81	-188.83	-1682.9	-1948.0	-265.6
303	nodo 1 (9)	10.07	18.11	-171.77	-1407.3	-1546.9	-353.9
304	nodo 1 (10)	13.64	0.31	-264.46	-3333.8	-2271.6	-168.0
305	nodo 1 (11)	11.75	2.61	-247.40	-3058.2	-1870.5	-256.3
306	nodo 1 (12)	3.06	15.04	-185.70	1148.0	-444.6	-90.8
307	nodo 1 (13)	2.52	22.32	-182.17	1162.2	-346.9	-94.2
308	nodo 1 (14)	-5.80	14.70	-235.03	2225.5	1103.1	62.1
309	nodo 1 (15)	-6.34	21.97	-231.50	2239.7	1200.8	58.8
310	nodo 1 (16)	-3.26	22.70	-128.82	2066.6	892.5	-385.1
311	nodo 1 (17)	-3.80	29.97	-125.29	2080.8	990.2	-388.5
312	nodo 1 (18)	-12.12	22.35	-178.15	3144.1	2440.2	-232.2

313	nodo 1 (19)	-12.66	29.63	-174.62	3158.2	2537.9	-235.5
314	nodo 1 (20)	-15.75	-9.60	-365.03	1861.4	2885.2	255.3
315	nodo 1 (21)	-17.65	-7.30	-347.97	2137.0	3286.3	167.0
316	nodo 1 (22)	-14.07	-25.10	-440.66	210.5	2561.6	352.9
317	nodo 1 (23)	-15.97	-22.80	-423.60	486.1	2962.7	264.6
318	nodo 1 (24)	-17.56	14.66	-353.27	1908.6	3210.9	244.1
319	nodo 1 (25)	-19.45	16.95	-336.21	2184.2	3612.0	155.8
320	nodo 1 (26)	-15.88	-0.84	-428.90	257.7	2887.3	341.7
321	nodo 1 (27)	-17.77	1.45	-411.84	533.3	3288.5	253.5
322	nodo 1 (28)	8.65	-36.62	-437.81	-4355.0	-1523.2	234.5
323	nodo 1 (29)	8.11	-29.34	-434.28	-4340.8	-1425.5	231.2
324	nodo 1 (30)	-0.20	-36.97	-487.14	-3277.5	24.5	387.5
325	nodo 1 (31)	-0.74	-29.69	-483.61	-3263.4	122.2	384.1
326	nodo 1 (32)	2.33	-28.96	-380.93	-3436.4	-186.1	-59.8
327	nodo 1 (33)	1.79	-21.69	-377.40	-3422.3	-88.4	-63.1
328	nodo 1 (34)	-6.52	-29.31	-430.26	-2359.0	1361.6	93.2
329	nodo 1 (35)	-7.06	-22.03	-426.73	-2344.8	1459.3	89.8
330	nodo 1 (36)	-2.04	-3.75	-317.07	-688.3	508.8	-0.5
331	nodo 1 (37)	-2.00	-3.99	-320.44	-773.6	491.2	-0.5
332	nodo 1 (38)	-2.02	-3.88	-319.86	-730.4	498.9	-0.4
333	nodo 1 (39)	-2.04	-3.51	-309.95	-600.7	516.9	-0.5
334	nodo 1 (40)	-1.99	-3.59	-307.56	-632.5	500.3	-0.5
335	nodo 1 (41)	-2.00	-3.50	-306.21	-598.4	507.4	-0.5
336	nodo 1 (42)	-2.00	-3.50	-306.21	-598.4	507.4	-0.5

Spostamenti globali palificata:

Cond.	Commento	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
1	nodo 12 (1)	-0.00	-0.01	-0.11	0.00	-0.00	0.00
2	nodo 12 (2)	-0.00	-0.01	-0.11	0.00	-0.00	0.00
3	nodo 12 (3)	-0.00	-0.01	-0.11	0.00	-0.00	0.00
4	nodo 12 (4)	0.05	0.09	-0.11	-0.00	0.00	-0.00
5	nodo 12 (5)	0.04	0.08	-0.11	-0.00	-0.00	-0.00
6	nodo 12 (6)	0.07	0.04	-0.09	0.00	0.00	-0.00
7	nodo 12 (7)	0.05	0.02	-0.09	0.00	-0.00	-0.00
8	nodo 12 (8)	0.06	0.10	-0.07	-0.00	0.00	-0.00
9	nodo 12 (9)	0.04	0.08	-0.06	-0.00	-0.00	-0.00
10	nodo 12 (10)	0.07	0.05	-0.05	0.00	0.00	-0.00

11	nodo 12 (11)	0.06	0.03	-0.04	0.00	-0.00	-0.00
12	nodo 12 (12)	0.01	0.13	-0.13	-0.00	0.00	-0.00
13	nodo 12 (13)	0.02	0.13	-0.12	-0.00	0.00	-0.00
14	nodo 12 (14)	-0.02	0.08	-0.13	-0.00	0.00	0.00
15	nodo 12 (15)	-0.02	0.09	-0.12	-0.00	0.00	0.00
16	nodo 12 (16)	-0.04	0.07	-0.11	-0.00	-0.00	-0.00
17	nodo 12 (17)	-0.03	0.07	-0.10	-0.00	-0.00	-0.00
18	nodo 12 (18)	-0.07	0.02	-0.11	0.00	-0.00	-0.00
19	nodo 12 (19)	-0.07	0.03	-0.10	0.00	-0.00	-0.00
20	nodo 12 (20)	-0.06	-0.05	-0.12	0.00	0.00	0.00
21	nodo 12 (21)	-0.08	-0.07	-0.11	0.00	-0.00	0.00
22	nodo 12 (22)	-0.05	-0.10	-0.09	0.00	-0.00	0.00
23	nodo 12 (23)	-0.06	-0.12	-0.09	0.00	-0.00	0.00
24	nodo 12 (24)	-0.06	-0.05	-0.07	0.00	0.00	0.00
25	nodo 12 (25)	-0.07	-0.06	-0.06	0.00	-0.00	0.00
26	nodo 12 (26)	-0.04	-0.10	-0.05	0.00	-0.00	0.00
27	nodo 12 (27)	-0.06	-0.12	-0.04	0.00	-0.00	0.00
28	nodo 12 (28)	0.06	-0.05	-0.06	0.00	0.00	0.00
29	nodo 12 (29)	0.07	-0.05	-0.05	0.00	0.00	0.00
30	nodo 12 (30)	0.03	-0.09	-0.06	0.00	0.00	0.00
31	nodo 12 (31)	0.03	-0.09	-0.05	0.00	0.00	0.00
32	nodo 12 (32)	0.01	-0.11	-0.04	0.00	-0.00	-0.00
33	nodo 12 (33)	0.02	-0.11	-0.03	0.00	-0.00	-0.00
34	nodo 12 (34)	-0.02	-0.15	-0.04	0.00	-0.00	0.00
35	nodo 12 (35)	-0.02	-0.15	-0.03	0.00	-0.00	0.00
36	nodo 12 (36)	-0.00	-0.01	-0.08	0.00	-0.00	0.00
37	nodo 12 (37)	-0.00	-0.01	-0.08	0.00	-0.00	0.00
38	nodo 12 (38)	-0.00	-0.01	-0.08	0.00	-0.00	0.00
39	nodo 12 (39)	-0.00	-0.01	-0.08	0.00	-0.00	0.00
40	nodo 12 (40)	-0.00	-0.01	-0.08	0.00	-0.00	0.00
41	nodo 12 (41)	-0.00	-0.01	-0.08	0.00	-0.00	0.00
42	nodo 12 (42)	-0.00	-0.01	-0.08	0.00	-0.00	0.00
43	nodo 11 (1)	-0.00	-0.02	-0.11	0.00	-0.00	0.00
44	nodo 11 (2)	-0.00	-0.02	-0.11	0.00	0.00	0.00
45	nodo 11 (3)	-0.00	-0.02	-0.11	0.00	-0.00	0.00
46	nodo 11 (4)	0.05	0.06	-0.08	0.00	-0.00	-0.00
47	nodo 11 (5)	0.07	0.05	-0.08	0.00	-0.00	-0.00
48	nodo 11 (6)	0.04	0.00	-0.07	0.00	-0.00	-0.00
49	nodo 11 (7)	0.05	-0.01	-0.07	0.00	-0.00	-0.00
50	nodo 11 (8)	0.06	0.07	-0.08	0.00	-0.00	-0.00
51	nodo 11 (9)	0.07	0.06	-0.07	0.00	-0.00	-0.00
52	nodo 11 (10)	0.04	0.01	-0.07	0.00	-0.00	-0.00

53	nodo 11 (11)	0.06	-0.00	-0.07	0.00	-0.00	-0.00
54	nodo 11 (12)	0.02	0.12	-0.10	0.00	0.00	-0.00
55	nodo 11 (13)	0.02	0.12	-0.10	-0.00	0.00	-0.00
56	nodo 11 (14)	-0.02	0.09	-0.10	0.00	0.00	0.00
57	nodo 11 (15)	-0.02	0.09	-0.10	0.00	0.00	0.00
58	nodo 11 (16)	0.07	0.08	-0.09	0.00	-0.00	-0.00
59	nodo 11 (17)	0.07	0.08	-0.09	0.00	-0.00	-0.00
60	nodo 11 (18)	0.03	0.05	-0.09	0.00	-0.00	-0.00
61	nodo 11 (19)	0.03	0.05	-0.09	0.00	-0.00	-0.00
62	nodo 11 (20)	-0.06	-0.02	-0.10	0.00	0.00	0.00
63	nodo 11 (21)	-0.04	-0.04	-0.09	0.00	0.00	0.00
64	nodo 11 (22)	-0.08	-0.08	-0.09	0.00	0.00	0.00
65	nodo 11 (23)	-0.06	-0.09	-0.08	0.00	0.00	0.00
66	nodo 11 (24)	-0.06	-0.02	-0.09	0.00	0.00	0.00
67	nodo 11 (25)	-0.04	-0.03	-0.09	0.00	0.00	0.00
68	nodo 11 (26)	-0.07	-0.08	-0.09	0.00	0.00	0.00
69	nodo 11 (27)	-0.06	-0.09	-0.08	0.00	-0.00	0.00
70	nodo 11 (28)	-0.04	-0.08	-0.07	0.00	-0.00	0.00
71	nodo 11 (29)	-0.04	-0.08	-0.07	0.00	-0.00	0.00
72	nodo 11 (30)	-0.07	-0.10	-0.07	0.00	0.00	0.00
73	nodo 11 (31)	-0.07	-0.10	-0.07	0.00	0.00	0.00
74	nodo 11 (32)	0.01	-0.12	-0.06	0.00	-0.00	-0.00
75	nodo 11 (33)	0.02	-0.11	-0.06	0.00	-0.00	-0.00
76	nodo 11 (34)	-0.02	-0.14	-0.06	0.00	-0.00	0.00
77	nodo 11 (35)	-0.02	-0.14	-0.06	0.00	-0.00	0.00
78	nodo 11 (36)	-0.00	-0.01	-0.08	0.00	-0.00	0.00
79	nodo 11 (37)	-0.00	-0.01	-0.08	0.00	0.00	0.00
80	nodo 11 (38)	-0.00	-0.01	-0.08	0.00	-0.00	0.00
81	nodo 11 (39)	-0.00	-0.01	-0.08	0.00	-0.00	0.00
82	nodo 11 (40)	-0.00	-0.01	-0.08	0.00	-0.00	0.00
83	nodo 11 (41)	-0.00	-0.01	-0.08	0.00	-0.00	0.00
84	nodo 11 (42)	-0.00	-0.01	-0.08	0.00	-0.00	0.00
85	nodo 10 (1)	-0.00	-0.02	-0.12	0.00	-0.00	-0.00
86	nodo 10 (2)	-0.00	-0.02	-0.12	0.00	-0.00	-0.00
87	nodo 10 (3)	-0.00	-0.02	-0.12	0.00	-0.00	-0.00
88	nodo 10 (4)	0.05	-0.00	-0.09	0.00	-0.00	-0.00
89	nodo 10 (5)	0.07	-0.00	-0.09	0.00	-0.00	-0.00
90	nodo 10 (6)	0.04	-0.07	-0.08	0.00	0.00	-0.00
91	nodo 10 (7)	0.05	-0.07	-0.08	0.00	0.00	-0.00
92	nodo 10 (8)	0.06	-0.01	-0.10	0.00	-0.00	-0.00
93	nodo 10 (9)	0.07	-0.02	-0.10	0.00	-0.00	-0.00
94	nodo 10 (10)	0.04	-0.08	-0.08	0.00	-0.00	-0.00

95	nodo 10 (11)	0.06	-0.08	-0.08	0.00	-0.00	-0.00
96	nodo 10 (12)	0.02	0.10	-0.10	0.00	-0.00	-0.00
97	nodo 10 (13)	0.02	0.09	-0.10	0.00	-0.00	-0.00
98	nodo 10 (14)	-0.02	0.11	-0.10	0.00	-0.00	0.00
99	nodo 10 (15)	-0.02	0.11	-0.10	0.00	-0.00	0.00
100	nodo 10 (16)	0.07	0.09	-0.10	0.00	-0.00	-0.00
101	nodo 10 (17)	0.07	0.09	-0.11	0.00	-0.00	-0.00
102	nodo 10 (18)	0.03	0.11	-0.10	-0.00	-0.00	-0.00
103	nodo 10 (19)	0.03	0.11	-0.10	0.00	-0.00	-0.00
104	nodo 10 (20)	-0.06	0.06	-0.08	0.00	-0.00	0.00
105	nodo 10 (21)	-0.04	0.06	-0.08	0.00	-0.00	0.00
106	nodo 10 (22)	-0.08	-0.01	-0.07	0.00	0.00	0.00
107	nodo 10 (23)	-0.06	-0.01	-0.07	0.00	0.00	0.00
108	nodo 10 (24)	-0.06	0.05	-0.08	0.00	-0.00	0.00
109	nodo 10 (25)	-0.04	0.05	-0.08	0.00	-0.00	0.00
110	nodo 10 (26)	-0.07	-0.02	-0.07	0.00	0.00	0.00
111	nodo 10 (27)	-0.06	-0.02	-0.07	0.00	0.00	0.00
112	nodo 10 (28)	-0.04	-0.14	-0.06	0.00	0.00	0.00
113	nodo 10 (29)	-0.04	-0.14	-0.06	0.00	0.00	0.00
114	nodo 10 (30)	-0.07	-0.12	-0.06	0.00	0.00	0.00
115	nodo 10 (31)	-0.07	-0.12	-0.06	0.00	0.00	0.00
116	nodo 10 (32)	0.01	-0.14	-0.07	0.00	0.00	-0.00
117	nodo 10 (33)	0.01	-0.14	-0.07	0.00	0.00	-0.00
118	nodo 10 (34)	-0.02	-0.12	-0.06	0.00	0.00	0.00
119	nodo 10 (35)	-0.02	-0.12	-0.06	0.00	0.00	0.00
120	nodo 10 (36)	-0.00	-0.01	-0.09	0.00	-0.00	-0.00
121	nodo 10 (37)	-0.00	-0.01	-0.09	0.00	-0.00	-0.00
122	nodo 10 (38)	-0.00	-0.01	-0.09	0.00	-0.00	-0.00
123	nodo 10 (39)	-0.00	-0.01	-0.08	0.00	-0.00	-0.00
124	nodo 10 (40)	-0.00	-0.01	-0.08	0.00	-0.00	-0.00
125	nodo 10 (41)	-0.00	-0.01	-0.08	0.00	-0.00	-0.00
126	nodo 10 (42)	-0.00	-0.01	-0.08	0.00	-0.00	-0.00
127	nodo 9 (1)	-0.00	-0.01	-0.12	0.00	-0.00	-0.00
128	nodo 9 (2)	-0.00	-0.01	-0.13	0.00	-0.00	-0.00
129	nodo 9 (3)	-0.00	-0.01	-0.12	0.00	-0.00	-0.00
130	nodo 9 (4)	0.05	-0.02	-0.08	0.00	0.00	-0.00
131	nodo 9 (5)	0.07	-0.01	-0.09	0.00	0.00	-0.00
132	nodo 9 (6)	0.04	-0.10	-0.06	0.00	0.00	-0.00
133	nodo 9 (7)	0.05	-0.09	-0.06	0.00	0.00	-0.00
134	nodo 9 (8)	0.06	0.19	-0.12	-0.00	-0.00	-0.00
135	nodo 9 (9)	0.07	0.20	-0.12	-0.00	0.00	-0.00
136	nodo 9 (10)	0.04	0.11	-0.09	-0.00	0.00	-0.00

137	nodo 9 (11)	0.06	0.12	-0.09	-0.00	0.00	-0.00
138	nodo 9 (12)	0.02	0.09	-0.13	-0.00	-0.00	-0.00
139	nodo 9 (13)	0.02	0.16	-0.14	-0.00	-0.00	-0.00
140	nodo 9 (14)	-0.02	0.06	-0.13	0.00	-0.00	0.00
141	nodo 9 (15)	-0.02	0.12	-0.14	-0.00	-0.00	0.00
142	nodo 9 (16)	0.07	0.13	-0.13	-0.00	-0.00	-0.00
143	nodo 9 (17)	0.07	0.20	-0.14	-0.00	-0.00	-0.00
144	nodo 9 (18)	0.03	0.10	-0.13	-0.00	-0.00	-0.00
145	nodo 9 (19)	0.03	0.16	-0.14	-0.00	-0.00	-0.00
146	nodo 9 (20)	-0.06	-0.14	-0.08	0.00	-0.00	0.00
147	nodo 9 (21)	-0.04	-0.13	-0.08	0.00	-0.00	0.00
148	nodo 9 (22)	-0.07	-0.22	-0.05	0.00	-0.00	0.00
149	nodo 9 (23)	-0.06	-0.21	-0.05	0.00	-0.00	0.00
150	nodo 9 (24)	-0.06	0.07	-0.11	-0.00	-0.00	0.00
151	nodo 9 (25)	-0.04	0.08	-0.12	-0.00	-0.00	0.00
152	nodo 9 (26)	-0.07	-0.01	-0.09	0.00	-0.00	0.00
153	nodo 9 (27)	-0.06	-0.00	-0.09	0.00	-0.00	0.00
154	nodo 9 (28)	-0.04	-0.18	-0.03	0.00	0.00	0.00
155	nodo 9 (29)	-0.03	-0.12	-0.04	0.00	0.00	0.00
156	nodo 9 (30)	-0.07	-0.22	-0.03	0.00	0.00	0.00
157	nodo 9 (31)	-0.07	-0.15	-0.04	0.00	0.00	0.00
158	nodo 9 (32)	0.01	-0.14	-0.04	0.00	0.00	-0.00
159	nodo 9 (33)	0.01	-0.08	-0.05	0.00	0.00	-0.00
160	nodo 9 (34)	-0.02	-0.18	-0.04	0.00	0.00	0.00
161	nodo 9 (35)	-0.02	-0.12	-0.05	0.00	0.00	0.00
162	nodo 9 (36)	-0.00	-0.01	-0.09	0.00	-0.00	-0.00
163	nodo 9 (37)	-0.00	-0.01	-0.09	0.00	-0.00	-0.00
164	nodo 9 (38)	-0.00	-0.01	-0.09	0.00	-0.00	-0.00
165	nodo 9 (39)	-0.00	-0.01	-0.09	0.00	-0.00	-0.00
166	nodo 9 (40)	-0.00	-0.01	-0.09	0.00	-0.00	-0.00
167	nodo 9 (41)	-0.00	-0.01	-0.09	0.00	-0.00	-0.00
168	nodo 9 (42)	-0.00	-0.01	-0.09	0.00	-0.00	-0.00
169	nodo 4 (1)	-0.00	-0.02	-0.13	0.00	-0.00	0.00
170	nodo 4 (2)	-0.00	-0.01	-0.13	0.00	-0.00	0.00
171	nodo 4 (3)	-0.00	-0.02	-0.13	0.00	-0.00	0.00
172	nodo 4 (4)	0.05	0.09	-0.12	-0.00	0.00	-0.00
173	nodo 4 (5)	0.05	0.07	-0.12	-0.00	0.00	-0.00
174	nodo 4 (6)	0.06	0.04	-0.13	-0.00	-0.00	-0.00
175	nodo 4 (7)	0.05	0.02	-0.14	-0.00	-0.00	-0.00
176	nodo 4 (8)	0.05	0.10	-0.12	-0.00	0.00	-0.00
177	nodo 4 (9)	0.04	0.08	-0.12	-0.00	0.00	-0.00
178	nodo 4 (10)	0.05	0.04	-0.14	-0.00	-0.00	-0.00

179	nodo 4 (11)	0.05	0.03	-0.14	-0.00	-0.00	-0.00
180	nodo 4 (12)	0.02	0.13	-0.07	-0.00	-0.00	-0.00
181	nodo 4 (13)	0.01	0.13	-0.07	-0.00	-0.00	-0.00
182	nodo 4 (14)	-0.01	0.08	-0.05	-0.00	-0.00	0.00
183	nodo 4 (15)	-0.02	0.08	-0.05	-0.00	-0.00	0.00
184	nodo 4 (16)	0.00	0.07	-0.08	-0.00	0.00	-0.00
185	nodo 4 (17)	-0.00	0.07	-0.08	-0.00	0.00	-0.00
186	nodo 4 (18)	-0.03	0.02	-0.06	-0.00	-0.00	-0.00
187	nodo 4 (19)	-0.03	0.02	-0.06	-0.00	-0.00	-0.00
188	nodo 4 (20)	-0.05	-0.05	-0.05	0.00	-0.00	0.00
189	nodo 4 (21)	-0.05	-0.07	-0.05	0.00	-0.00	0.00
190	nodo 4 (22)	-0.04	-0.10	-0.07	0.00	-0.00	0.00
191	nodo 4 (23)	-0.05	-0.12	-0.07	0.00	-0.00	0.00
192	nodo 4 (24)	-0.05	-0.05	-0.05	0.00	-0.00	0.00
193	nodo 4 (25)	-0.06	-0.06	-0.05	0.00	-0.00	0.00
194	nodo 4 (26)	-0.05	-0.10	-0.07	0.00	-0.00	0.00
195	nodo 4 (27)	-0.05	-0.12	-0.07	0.00	-0.00	0.00
196	nodo 4 (28)	0.03	-0.05	-0.13	0.00	-0.00	0.00
197	nodo 4 (29)	0.03	-0.05	-0.13	0.00	-0.00	0.00
198	nodo 4 (30)	-0.00	-0.09	-0.11	0.00	-0.00	0.00
199	nodo 4 (31)	-0.00	-0.09	-0.11	0.00	-0.00	0.00
200	nodo 4 (32)	0.01	-0.11	-0.13	0.00	-0.00	-0.00
201	nodo 4 (33)	0.01	-0.11	-0.14	0.00	-0.00	-0.00
202	nodo 4 (34)	-0.02	-0.15	-0.11	0.00	-0.00	0.00
203	nodo 4 (35)	-0.02	-0.15	-0.12	0.00	-0.00	0.00
204	nodo 4 (36)	-0.00	-0.01	-0.10	0.00	-0.00	0.00
205	nodo 4 (37)	-0.00	-0.01	-0.10	0.00	-0.00	0.00
206	nodo 4 (38)	-0.00	-0.01	-0.10	0.00	-0.00	0.00
207	nodo 4 (39)	-0.00	-0.01	-0.10	0.00	-0.00	0.00
208	nodo 4 (40)	-0.00	-0.01	-0.09	0.00	-0.00	0.00
209	nodo 4 (41)	-0.00	-0.01	-0.09	0.00	-0.00	0.00
210	nodo 4 (42)	-0.00	-0.01	-0.09	0.00	-0.00	0.00
211	nodo 3 (1)	-0.00	-0.02	-0.14	-0.00	-0.00	0.00
212	nodo 3 (2)	-0.00	-0.01	-0.14	-0.00	-0.00	0.00
213	nodo 3 (3)	-0.00	-0.02	-0.14	-0.00	-0.00	0.00
214	nodo 3 (4)	0.05	0.06	-0.11	-0.00	0.00	-0.00
215	nodo 3 (5)	0.05	0.05	-0.11	-0.00	0.00	-0.00
216	nodo 3 (6)	0.06	0.00	-0.12	-0.00	0.00	-0.00
217	nodo 3 (7)	0.05	-0.01	-0.12	-0.00	0.00	-0.00
218	nodo 3 (8)	0.05	0.07	-0.11	-0.00	0.00	-0.00
219	nodo 3 (9)	0.04	0.06	-0.11	-0.00	0.00	-0.00
220	nodo 3 (10)	0.05	0.01	-0.12	-0.00	0.00	-0.00

221	nodo 3 (11)	0.05	-0.00	-0.13	-0.00	0.00	-0.00
222	nodo 3 (12)	0.01	0.12	-0.07	-0.00	-0.00	-0.00
223	nodo 3 (13)	0.01	0.12	-0.07	-0.00	-0.00	-0.00
224	nodo 3 (14)	-0.01	0.09	-0.06	-0.00	-0.00	0.00
225	nodo 3 (15)	-0.02	0.09	-0.06	-0.00	-0.00	0.00
226	nodo 3 (16)	0.00	0.08	-0.08	-0.00	0.00	-0.00
227	nodo 3 (17)	-0.00	0.08	-0.08	-0.00	0.00	-0.00
228	nodo 3 (18)	-0.03	0.05	-0.07	-0.00	0.00	-0.00
229	nodo 3 (19)	-0.03	0.05	-0.07	-0.00	0.00	-0.00
230	nodo 3 (20)	-0.05	-0.02	-0.07	-0.00	-0.00	0.00
231	nodo 3 (21)	-0.05	-0.03	-0.08	-0.00	-0.00	0.00
232	nodo 3 (22)	-0.04	-0.08	-0.09	0.00	-0.00	0.00
233	nodo 3 (23)	-0.05	-0.09	-0.09	0.00	-0.00	0.00
234	nodo 3 (24)	-0.05	-0.02	-0.08	-0.00	-0.00	0.00
235	nodo 3 (25)	-0.06	-0.03	-0.08	-0.00	-0.00	0.00
236	nodo 3 (26)	-0.05	-0.08	-0.09	0.00	-0.00	0.00
237	nodo 3 (27)	-0.05	-0.09	-0.09	0.00	-0.00	0.00
238	nodo 3 (28)	0.03	-0.08	-0.13	0.00	-0.00	0.00
239	nodo 3 (29)	0.03	-0.08	-0.13	0.00	-0.00	0.00
240	nodo 3 (30)	-0.00	-0.10	-0.12	0.00	-0.00	0.00
241	nodo 3 (31)	-0.00	-0.10	-0.12	0.00	-0.00	0.00
242	nodo 3 (32)	0.01	-0.12	-0.14	0.00	0.00	-0.00
243	nodo 3 (33)	0.01	-0.11	-0.14	0.00	-0.00	-0.00
244	nodo 3 (34)	-0.02	-0.14	-0.13	0.00	-0.00	0.00
245	nodo 3 (35)	-0.02	-0.14	-0.13	0.00	-0.00	0.00
246	nodo 3 (36)	-0.00	-0.01	-0.10	-0.00	-0.00	0.00
247	nodo 3 (37)	-0.00	-0.01	-0.10	-0.00	-0.00	0.00
248	nodo 3 (38)	-0.00	-0.01	-0.10	-0.00	-0.00	0.00
249	nodo 3 (39)	-0.00	-0.01	-0.10	-0.00	-0.00	0.00
250	nodo 3 (40)	-0.00	-0.01	-0.10	-0.00	-0.00	0.00
251	nodo 3 (41)	-0.00	-0.01	-0.10	-0.00	-0.00	0.00
252	nodo 3 (42)	-0.00	-0.01	-0.10	-0.00	-0.00	0.00
253	nodo 2 (1)	-0.00	-0.02	-0.14	-0.00	-0.00	-0.00
254	nodo 2 (2)	-0.00	-0.02	-0.14	-0.00	-0.00	-0.00
255	nodo 2 (3)	-0.00	-0.02	-0.14	-0.00	-0.00	-0.00
256	nodo 2 (4)	0.05	-0.00	-0.08	-0.00	0.00	-0.00
257	nodo 2 (5)	0.05	-0.00	-0.08	-0.00	0.00	-0.00
258	nodo 2 (6)	0.06	-0.07	-0.10	0.00	0.00	-0.00
259	nodo 2 (7)	0.05	-0.07	-0.10	0.00	0.00	-0.00
260	nodo 2 (8)	0.04	-0.01	-0.08	-0.00	0.00	-0.00
261	nodo 2 (9)	0.04	-0.01	-0.08	-0.00	0.00	-0.00
262	nodo 2 (10)	0.05	-0.08	-0.10	0.00	0.00	-0.00

263	nodo 2 (11)	0.05	-0.08	-0.10	0.00	0.00	-0.00
264	nodo 2 (12)	0.01	0.10	-0.07	-0.00	0.00	-0.00
265	nodo 2 (13)	0.01	0.09	-0.07	-0.00	0.00	-0.00
266	nodo 2 (14)	-0.02	0.11	-0.07	-0.00	-0.00	0.00
267	nodo 2 (15)	-0.02	0.11	-0.07	-0.00	-0.00	0.00
268	nodo 2 (16)	0.00	0.09	-0.07	-0.00	0.00	-0.00
269	nodo 2 (17)	-0.00	0.09	-0.06	-0.00	0.00	-0.00
270	nodo 2 (18)	-0.03	0.11	-0.07	-0.00	0.00	-0.00
271	nodo 2 (19)	-0.03	0.11	-0.07	-0.00	0.00	-0.00
272	nodo 2 (20)	-0.05	0.06	-0.10	-0.00	-0.00	0.00
273	nodo 2 (21)	-0.05	0.06	-0.10	-0.00	-0.00	0.00
274	nodo 2 (22)	-0.04	-0.01	-0.12	-0.00	-0.00	0.00
275	nodo 2 (23)	-0.05	-0.01	-0.12	-0.00	-0.00	0.00
276	nodo 2 (24)	-0.06	0.05	-0.10	-0.00	-0.00	0.00
277	nodo 2 (25)	-0.06	0.05	-0.10	-0.00	-0.00	0.00
278	nodo 2 (26)	-0.05	-0.02	-0.12	-0.00	-0.00	0.00
279	nodo 2 (27)	-0.05	-0.02	-0.12	-0.00	-0.00	0.00
280	nodo 2 (28)	0.03	-0.13	-0.13	0.00	-0.00	0.00
281	nodo 2 (29)	0.03	-0.14	-0.13	0.00	-0.00	0.00
282	nodo 2 (30)	-0.00	-0.12	-0.14	0.00	-0.00	0.00
283	nodo 2 (31)	-0.00	-0.12	-0.14	0.00	-0.00	0.00
284	nodo 2 (32)	0.01	-0.14	-0.13	0.00	-0.00	-0.00
285	nodo 2 (33)	0.01	-0.14	-0.13	0.00	-0.00	-0.00
286	nodo 2 (34)	-0.02	-0.12	-0.14	0.00	-0.00	0.00
287	nodo 2 (35)	-0.02	-0.12	-0.14	0.00	-0.00	0.00
288	nodo 2 (36)	-0.00	-0.01	-0.11	-0.00	-0.00	-0.00
289	nodo 2 (37)	-0.00	-0.01	-0.11	-0.00	-0.00	-0.00
290	nodo 2 (38)	-0.00	-0.01	-0.11	-0.00	-0.00	-0.00
291	nodo 2 (39)	-0.00	-0.01	-0.10	-0.00	-0.00	-0.00
292	nodo 2 (40)	-0.00	-0.01	-0.10	-0.00	-0.00	-0.00
293	nodo 2 (41)	-0.00	-0.01	-0.10	-0.00	-0.00	-0.00
294	nodo 2 (42)	-0.00	-0.01	-0.10	-0.00	-0.00	-0.00
295	nodo 1 (1)	-0.00	-0.02	-0.14	0.00	0.00	-0.00
296	nodo 1 (2)	-0.00	-0.01	-0.14	-0.00	0.00	-0.00
297	nodo 1 (3)	-0.00	-0.02	-0.14	-0.00	0.00	-0.00
298	nodo 1 (4)	0.05	-0.02	-0.07	-0.00	0.00	-0.00
299	nodo 1 (5)	0.05	-0.01	-0.06	-0.00	0.00	-0.00
300	nodo 1 (6)	0.06	-0.10	-0.09	0.00	0.00	-0.00
301	nodo 1 (7)	0.05	-0.09	-0.09	0.00	0.00	-0.00
302	nodo 1 (8)	0.05	0.18	-0.06	-0.00	0.00	-0.00
303	nodo 1 (9)	0.04	0.19	-0.06	-0.00	0.00	-0.00
304	nodo 1 (10)	0.05	0.10	-0.09	-0.00	0.00	-0.00

305	nodo 1 (11)	0.05	0.11	-0.08	-0.00	0.00	-0.00
306	nodo 1 (12)	0.01	0.09	-0.06	-0.00	0.00	-0.00
307	nodo 1 (13)	0.01	0.15	-0.06	-0.00	0.00	-0.00
308	nodo 1 (14)	-0.02	0.06	-0.08	-0.00	0.00	0.00
309	nodo 1 (15)	-0.02	0.12	-0.08	-0.00	-0.00	0.00
310	nodo 1 (16)	-0.00	0.13	-0.04	-0.00	0.00	-0.00
311	nodo 1 (17)	-0.00	0.19	-0.04	-0.00	0.00	-0.00
312	nodo 1 (18)	-0.03	0.10	-0.06	-0.00	0.00	-0.00
313	nodo 1 (19)	-0.03	0.16	-0.06	-0.00	0.00	-0.00
314	nodo 1 (20)	-0.05	-0.13	-0.12	0.00	-0.00	0.00
315	nodo 1 (21)	-0.05	-0.12	-0.11	0.00	-0.00	0.00
316	nodo 1 (22)	-0.05	-0.22	-0.15	0.00	-0.00	0.00
317	nodo 1 (23)	-0.05	-0.20	-0.14	0.00	-0.00	0.00
318	nodo 1 (24)	-0.06	0.07	-0.12	-0.00	-0.00	0.00
319	nodo 1 (25)	-0.06	0.08	-0.11	-0.00	-0.00	0.00
320	nodo 1 (26)	-0.05	-0.01	-0.14	0.00	-0.00	0.00
321	nodo 1 (27)	-0.06	-0.00	-0.14	0.00	-0.00	0.00
322	nodo 1 (28)	0.03	-0.18	-0.14	0.00	0.00	0.00
323	nodo 1 (29)	0.03	-0.12	-0.14	0.00	0.00	0.00
324	nodo 1 (30)	-0.00	-0.22	-0.16	0.00	-0.00	0.00
325	nodo 1 (31)	-0.00	-0.16	-0.16	0.00	-0.00	0.00
326	nodo 1 (32)	0.01	-0.15	-0.13	0.00	0.00	-0.00
327	nodo 1 (33)	0.01	-0.08	-0.12	0.00	0.00	-0.00
328	nodo 1 (34)	-0.02	-0.18	-0.14	0.00	0.00	0.00
329	nodo 1 (35)	-0.02	-0.12	-0.14	0.00	0.00	0.00
330	nodo 1 (36)	-0.00	-0.01	-0.10	0.00	0.00	-0.00
331	nodo 1 (37)	-0.00	-0.01	-0.11	-0.00	0.00	-0.00
332	nodo 1 (38)	-0.00	-0.01	-0.11	0.00	0.00	-0.00
333	nodo 1 (39)	-0.00	-0.01	-0.10	0.00	0.00	-0.00
334	nodo 1 (40)	-0.00	-0.01	-0.10	0.00	0.00	-0.00
335	nodo 1 (41)	-0.00	-0.01	-0.10	0.00	0.00	-0.00
336	nodo 1 (42)	-0.00	-0.01	-0.10	0.00	0.00	-0.00

Armature pali:

Armature pali nodo 12

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature

1	12	0.00	-386.22	3067.2	0.0	0.11	15 ø 16

Armature pali nodo 11

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	55	0.00	-285.38	5398.3	0.0	0.15	15 ø 16

Armature pali nodo 10

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	98	0.00	-294.19	5434.3	0.0	0.15	15 ø 16

Armature pali nodo 9

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	143	0.00	-425.92	0.0	4030.2	0.13	15 ø 16

Armature pali nodo 4

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	174	0.00	-397.13	0.0	2790.1	0.11	15 ø 16

Armature pali nodo 3

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	244	0.00	-375.49	-4070.4	0.0	0.13	15 ø 16

Armature pali nodo 2

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	285	0.00	-387.56	-4061.1	0.0	0.13	15 ø 16

Armature pali nodo 1

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	323	0.00	-424.17	-2873.7	0.0	0.12	15 ø 16

- Verifiche pilastri

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
  -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -
    - Via statica equivalente.
    - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.

- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche setti in c.a.

Modalità di verifica

Le pareti in c.a. vengono verificate come setti/diaframmi o nuclei.

La verifica dei setti/diaframmi viene condotta a pressoflessione retta e a taglio. Viene calcolato lo sforzo normale medio agente sul setto e il momento ad esso associato. Quando previsto, sono introdotti ferri verticali aggiuntivi da disporsi sulle estremità del setto stesso.

La verifica dei nuclei viene condotta a pressoflessione deviata sulla sezione complessiva e a taglio sulle singole pareti costituenti il nucleo.

Sezioni Impiegate:

Sez. Num.	Info	Dimensioni	Criterio	Calcestruzzo	γ_M	F.C.	f_{ck} [kg/cm²]	f_{cd} [kg/cm²]	σ_{RARE} [kg/cm²]	σ_{FREQ} [kg/cm²]	σ_{QP} [kg/cm²]	Acciaio	γ_M	F.C.	f_{yk} [kg/cm²]	f_{yd} [kg/cm²]	σ_{yRA} [kg/c
1	Muro SETTO PERIMETRALE	s 20 [cm]	Verset	C25/30	1.50	1.00	250.0	141.7	150.0	250.0	112.5	B 450 C	1.15	1.00	4500.0	3913.0	3600.

Taglio di progetto pari al taglio di calcolo

Attenzione non è stato controllato che il valore dell'azione assiale ridotta $N_E > 0.4\ N_R$

Verifica a taglio-compressione del calcestruzzo dell'anima nelle zone dissipative: fattore riduttivo 0.40

Verifiche Setti:

Setto : 1 101 102 2 / Sezione 1

B = 280.00 H = 470.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 30' [cm], Dx: ø 12 30' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	30	-241.78	0.0	-19235.2	0.06
Sommità	19	40.78	0.0	-12649.5	0.11

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	42	-97.07	0.0	-10248.0	-6.6
$\sigma_{Cls,Med}$	42	-97.07	0.0	-10248.0	-3.3
$\sigma_{s,t}$	36	-98.08	0.0	-10533.8	95.4
$\sigma_{s,c}$	36	-98.08	0.0	-10533.8	-99.4
Sommita					
$\sigma_{Cls,Max}$	42	-7.78	0.0	-5279.7	-4.2
$\sigma_{Cls,Med}$	42	-7.78	0.0	-5279.7	-2.1
$\sigma_{s,t}$	37	-7.98	0.0	-6140.9	224.4
$\sigma_{s,c}$	37	-7.98	0.0	-6140.9	-68.3

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
1 102	15	-90.72	1.00	-90.72	22.91	-12841.1	1763.10	489.46	0.00	0.19

Setto : 2 102 103 3 / Sezione 1

B = 280.00 H = 470.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 30' [cm], Dx: ø 12 30' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	4	-17.89	0.0	5854.6	0.03
Sommità	22	-32.19	0.0	-9556.2	0.04

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	42	-43.05	0.0	-82.0	-0.7
$\sigma_{Cls,Med}$	42	-43.05	0.0	-82.0	-0.7
$\sigma_{s,t}$	36	-43.94	0.0	-97.8	-10.3
$\sigma_{s,c}$	37	-47.51	0.0	-113.3	-12.3
Sommita					
$\sigma_{Cls,Max}$	42	-23.24	0.0	-853.7	-0.7
$\sigma_{Cls,Med}$	37	-31.56	0.0	-1004.8	-0.5
$\sigma_{s,t}$	36	-26.99	0.0	-929.6	-1.9
$\sigma_{s,c}$	37	-31.56	0.0	-1004.8	-12.9

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
2 103	22	-82.97	1.00	-82.97	-32.19	-9556.2	1763.10	489.46	0.00	0.17

Setto : 3 103 104 4 / Sezione 1

B = 280.00 H = 470.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 30' [cm], Dx: ø 12 30' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	18	-2.97	0.0	13238.4	0.08
Sommità	14	40.51	0.0	11147.4	0.10

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	42	-87.76	0.0	9645.0	-6.3
$\sigma_{Cls,Med}$	42	-87.76	0.0	9645.0	-3.1
$\sigma_{s,t}$	36	-88.13	0.0	9874.4	98.0
$\sigma_{s,c}$	36	-88.13	0.0	9874.4	-94.1
Sommita					
$\sigma_{Cls,Max}$	42	-6.21	0.0	5731.2	-4.5
$\sigma_{Cls,Med}$	42	-6.21	0.0	5731.2	-2.3
$\sigma_{s,t}$	37	-6.53	0.0	6608.0	250.0
$\sigma_{s,c}$	37	-6.53	0.0	6608.0	-73.6

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
3 104	12	88.63	1.00	88.63	20.79	13196.1	1763.10	489.46	0.00	0.18

Setto : 5 105 101 1 / Sezione 1

B = 147.50 H = 470.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 30' [cm], Dx: ø 12 30' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	30	-140.61	0.0	16598.7	0.22
Sommità	17	-18.66	0.0	-11355.6	0.23

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	42	-56.58	0.0	7419.8	-19.1
$\sigma_{Cls,Med}$	42	-56.58	0.0	7419.8	-9.5
$\sigma_{s,t}$	37	-60.00	0.0	7915.5	648.6
$\sigma_{s,c}$	37	-60.00	0.0	7915.5	-278.2
Sommita					
$\sigma_{Cls,Max}$	42	-31.13	0.0	-2410.1	-5.8
$\sigma_{Cls,Med}$	42	-31.13	0.0	-2410.1	-2.9
$\sigma_{s,t}$	37	-34.69	0.0	-3060.8	181.3
$\sigma_{s,c}$	37	-34.69	0.0	-3060.8	-104.8

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
5 101	17	-113.29	1.00	-113.29	-18.66	-11355.6	918.22	254.91	0.00	0.44

Setto : 8 108 104 4 / Sezione 1

B = 147.50 H = 470.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 30' [cm], Dx: ø 12 30' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	33	-96.64	0.0	13932.2	0.20
Sommità	14	-11.71	0.0	-9848.7	0.20

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	42	-43.00	0.0	6853.1	-17.8
$\sigma_{Cls,Med}$	42	-43.00	0.0	6853.1	-8.9
$\sigma_{s,t}$	37	-43.48	0.0	7205.1	662.4
$\sigma_{s,c}$	37	-43.48	0.0	7205.1	-254.7
Sommita					

$\sigma_{Cls,Max}$	42	-15.62	0.0	-2332.9	-6.0
$\sigma_{Cls,Med}$	42	-15.62	0.0	-2332.9	-3.0
$\sigma_{s,t}$	37	-16.32	0.0	-2899.6	274.3
$\sigma_{s,c}$	37	-16.32	0.0	-2899.6	-102.6

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
8 104	14	-97.76	1.00	-97.76	-11.71	-9848.7	918.22	254.91	0.00	0.38

Setto : 9 109 105 5 / Sezione 1

B = 147.50 H = 470.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 30' [cm], Dx: ø 12 30' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	17	-335.90	0.0	-26650.6	0.30
Sommità	30	-21.41	0.0	8434.6	0.16

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	42	-129.69	0.0	-12607.6	-31.5
$\sigma_{Cls,Med}$	42	-129.69	0.0	-12607.6	-15.8
$\sigma_{s,t}$	36	-142.49	0.0	-13415.5	849.7
$\sigma_{s,c}$	37	-155.25	0.0	-13958.3	-478.9
Sommita					
$\sigma_{Cls,Max}$	42	-84.19	0.0	3488.7	-7.6
$\sigma_{Cls,Med}$	42	-84.19	0.0	3488.7	-3.8
$\sigma_{s,t}$	37	-108.14	0.0	4491.4	57.6
$\sigma_{s,c}$	37	-108.14	0.0	4491.4	-140.7

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
9 105	17	154.89	1.00	154.89	-335.90	-26650.6	918.22	254.91	0.00	0.61

Setto : 12 112 108 8 / Sezione 1

B = 147.50 H = 470.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 30' [cm], Dx: ø 12 30' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	14	-271.46	0.0	-23202.1	0.27
Sommità	33	-0.59	0.0	6283.3	0.14

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	42	-101.33	0.0	-11413.3	-29.0

$\sigma_{Cls,Med}$	42	-101.33	0.0	-11413.3	-14.5
$\sigma_{s,t}$	36	-110.24	0.0	-12063.8	871.1
$\sigma_{s,c}$	37	-119.11	0.0	-12449.6	-432.4
Sommita					
$\sigma_{Cls,Max}$	42	-54.26	0.0	2414.3	-5.3
$\sigma_{Cls,Med}$	42	-54.26	0.0	2414.3	-2.6
$\sigma_{s,t}$	37	-69.89	0.0	3031.7	44.5
$\sigma_{s,c}$	37	-69.89	0.0	3031.7	-94.9

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
12 108	14	136.30	1.00	136.30	-271.46	-23202.1	918.22	254.91	0.00	0.53

- En.Ex.Sys. WinStrand
- Verifiche setti in c.a.

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
  -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -

- Via statica equivalente.
- Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.
- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche lastre/piastre

Modalità di verifica

Gli elementi lastra/piastra possono essere distinti in due categorie in funzione dello stato di sollecitazione:

- elementi soggetti ad uno stato di sollecitazione semplice (flessione o tensionale a membrana);
- elementi soggetti ad uno stato di sollecitazione misto (flessionale e tensionale a membrana).

Le verifiche per stato di sollecitazione semplice sono svolte proiettando le armature lungo le direzioni principali e effettuando la verifica a flessione retta/membrana lungo tali direzioni.

Per gli elementi soggetti ad uno stato di sollecitazione misto, le direzioni principali variano, lungo lo sviluppo z dell'elemento, in modo continuo. Il codice di verifica procede a:

- suddivisione dell'elemento in strati di 1 cm di spessore;
- valutazione, per ogni strato, del corrispondente stato di deformazione e tensione membranale;
- ricostruzione, per sovrapposizione dei vari strati membranali, del comportamento globale dell'elemento soggetto allo stato misto di presso-flessione.

L'Utente può definire delle sezioni trasversali, per le quali le sollecitazioni sono valutate mediando integrazione sulla lunghezza della sezione

Nella determinazione della matrice di rigidezza degli strati di cls, si assume:

- Metodo T.A.: il calcestruzzo in compressione è assunto indefinitamente elastico lineare mentre, in trazione, si può assumere (opzionalmente) che sia in grado di assumere una trazione compresa fra 0 e f_{ct}, essendo f_{ct} la resstenza a trazione del calcestruzzo definita dall'EC2;
- Metodo S.L.U.: il metodo impiegato è quello noto come MCFT acronimo di "Modified Compression Field Method", sviluppato presso l'Università di Toronto da Collins e Del Vecchio a partire dagli anni '80. Il metodo, nella forma implementata, assume per la curva monoassiale tensione-deformazioni del cls quanto previsto dall'EC2;

La verifica a punzonamento può essere condotta considerando o non considerando autoequilibrate le tensioni nel terreno sotto il cono di punzonamento. L'angolo di diffusione è fissato dall'utente.

I copriferri indicati sono da intendersi riferiti al centro delle barre resistenti.

Simbologia utilizzata T.A.:

σ_{amm}
Tensione ammissibile
$\sigma_{amm,Trazione}$
Tensione ammissibile di trazione cls
$\sigma_{cls,1}$
Tensione cls direzione 1
$\sigma_{cls,2}$
Tensione cls direzione 2
$\sigma_{acciaio,1}$
Tensione acciaio direzione 1
$\sigma_{acciaio,2}$
Tensione acciaio direzione 2
$cf_{x,Eq}$
Copriferro in direzione x
Af_x
Armatura in direzione x
$cf_{y,Eq}$
Copriferro in direzione y
Af_y
Armatura in direzione y
N_x, N_y, N_{xy}, M_{xx}, M_{yy}, M_{xy}
Componenti di sollecitazione esterna
N_{11}, N_{22}, M_{11}, M_{22}, M_{12}
Componenti di sollecitazione principali
α
Angolo direzioni principali
d
Distanza a cui è calcolato il perimetro critico
$\tau_{b,0}$
Tensione ammissibile a taglio elementi privi di armatura a taglio
$\tau_{b,1}$
Tensione ammissibile a taglio elementi con armatura a taglio
N, Mx, My
Sollecitazione esterna verifica a punzonamento
τ

Tensione tangenziale massima

Simbologia utilizzata S.L.:

f_{yd}
Tensione di snervamento di progetto barre armatura
ε_{ud}
Deformazione uniforme ultima
ε_{yd}
Deformazione al limite di snervamento
f_{ck}
Resistenza cilindrica caratteristica
f_{cd}
Tensione di calcolo a compressione di base
ε_{c2}
Deformazione limite elastico
ε_{y}
Deformazione limite ultimo
f_{ctd}
Tensione di calcolo a trazione di progetto
ε_{ctd}
Deformazione al limite di trazione
E_{cm}
Modulo elastico
$cf_{x,Eq}$
Copriferro in direzione x
Af_{x}
Armatura in direzione x
$cf_{y,Eq}$
Copriferro in direzione y
Af_{y}
Armatura in direzione y
N_x, N_y, N_{xy}, M_{xx}, M_{yy}, M_{xy}
Componenti di sollecitazione esterna
N_{11}, N_{22}, M_{11}, M_{22}, M_{12}
Componenti di sollecitazione principali
α
Angolo direzioni principali
Cr
Coefficiente rottura S_D/S_R
ε_{x}
Deformazione acciaio direzione x
ε_{y}
Deformazione acciaio direzione y
ε_{min}
Deformazione minima cls
ε_{max}
Deformazione massima cls
θ_{max}
Angolo direzioni principali di deformazione

σ_{amm}
Tensione ammissibile S.L.E. di riferimento

σ_x
Tensione nelle barre nello S.L.E. di riferimento in direzione x

σ_y
Tensione nelle barre nello S.L.E. di riferimento in direzione y

$\sigma_{c,Max}$
Tensione massima nel cls nello S.L.E. di riferimento

d
Distanza a cui è calcolato il perimetro critico

$C_{Rd,c}$
Coefficiente taglio resistente elementi privi di armatura a taglio

V_{Ed}, Mx_{Ed}, My_{Ed}
Sollecitazione esterna verifica a punzonamento

B_x,B_y
Dimensioni perimetro critico

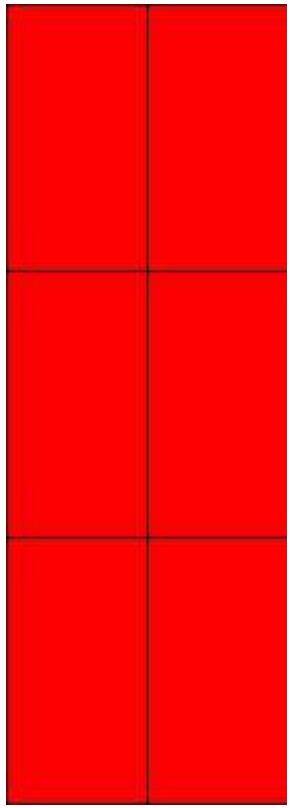
β
Angolo diffusione tensioni

v_{Ed}
Tensione tangenziale sull'area critica

ρ
Rapporto meccanico di armatura

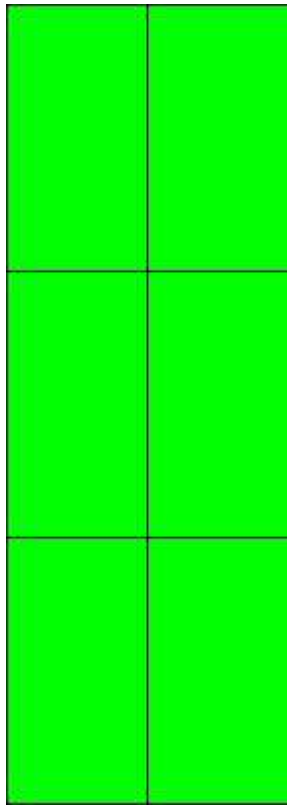
$V_{Rd,c}$
Taglio resistente elementi privi di armatura

Mappa armature di Estradosso



Colore	Armature
	top ø 12/25' X + ø 12/25' Y c=4.00 [cm]

Mappa armature di Intradosso



Colore	Armature
	bottom ø 12/25' X + ø 12/25' Y c=4.00 [cm]

Impostazioni di verifica

Curva σ/ε Calcestruzzo

- secondo Hognestad

Modellazione softening (trazione/compressione)

- $fc_{d,soft}$= fc_d 0.9/sqrt(1+400 et) / Hognestad

Modellazione compressione biassiale

- $fc_{d,biaxial} = fc_d\ (1 + 3.8\ \alpha) / (1.0+\alpha)^2$ / α=ec1/ec2 (EC2 Ponti 6.110)

Elementi più sollecitati per tipologia di sezione

Verifiche SLU *Shell* elemento nodi 6 3

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 12.0 [kg/cm²]**
- **ε_{ctd} 0.08 ‰**
- **E_{cm} 141666.7 [kg/cm²]**

Sezione

- **sezione 1 H=30.00 [cm]**

	Estradosso				**Intradosso**		
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
4.52	4.00	4.52	4.00	4.52	4.00	4.52	4.00

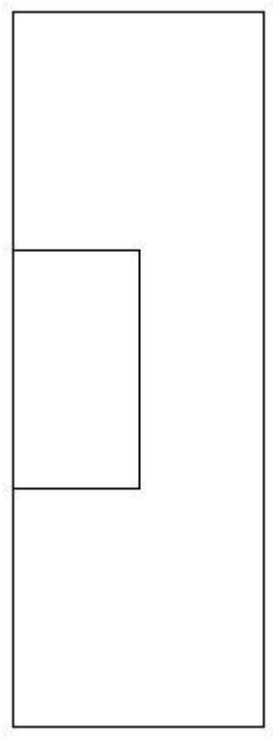
Azioni di verifica combinazione 17 (0.74 4.20 [m])

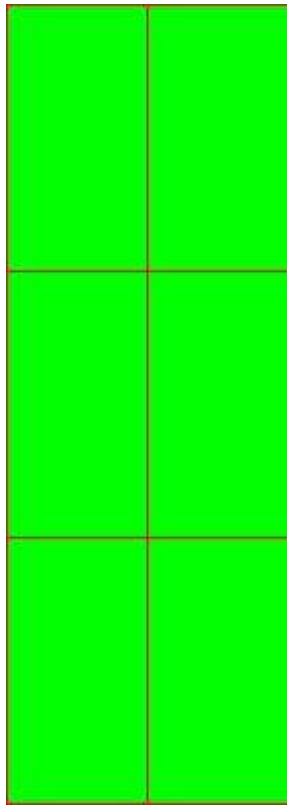
N_x	638.9	[kg/m]	N_{11}	2822.0	[kg/m]
N_y	2562.3	[kg/m]	N_{22}	379.2	[kg/m]
N_{xy}	-752.9	[kg/m]	α	19.03	[°]

M_{xx}	-1028.93	[kgm/m]	M_{11}	-4.07	[kgm/m]
M_y	-99.68	[kgm/m]	M_{22}	1132.68	[kgm/m]
M_{xy}	327.38	[kgm/m]	α	17.58	[°]

Verifiche

Cr=S/R	**Posizione**	**Acciaio**		**Calcestruzzo**		
		ε_x‰	**ε_y‰**	**ε_{min}‰**	**ε_{max}‰**	**θ [°]**
0.29	Estradosso	1.467	0.732	0.060	-3.500	68.99
	Intradosso	24.342	6.466	36.550	-0.103	-27.28





Verifiche SLE Rare *Shell* elemento nodi 10 7

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 3600.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 150.0 [kg/cm²]**

Sezione

- **sezione 1 H=30.00 [cm]**

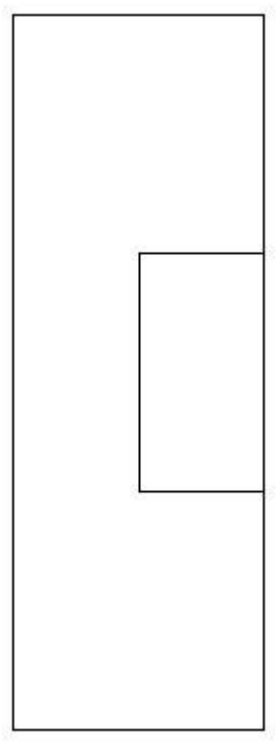
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
4.52	4.00	4.52	4.00	4.52	4.00	4.52	4.00

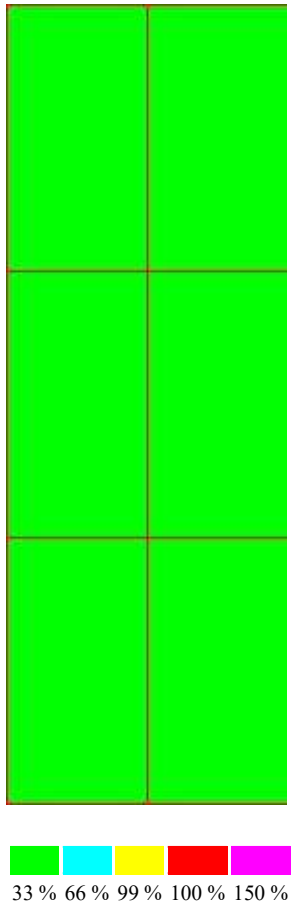
Azioni di verifica combinazione 36 (2.21 4.20 [m])

N_x	-74.4	[kg/m]	N_{11}	-175.8	[kg/m]
N_y	-128.0	[kg/m]	N_{22}	-26.6	[kg/m]
N_{xy}	69.7	[kg/m]	α	34.48	[°]
M_{xx}	-758.65	[kgm/m]	M_{11}	120.79	[kgm/m]
M_y	-120.79	[kgm/m]	M_{22}	758.66	[kgm/m]
M_{xy}	-1.66	[kgm/m]	α	-0.15	[°]

Verifiche

		Acciaio		**Calcestruzzo**			
Cr=S/R	**Posizione**	**σ_x [kg/cm²]**	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**	**Stato**	**Ampiezza Fessure mm**
0.16	Estradosso	-49.6	-8.0	-5.5	-86.38		
	Intradosso	52.7	3.0	0.0	10.66		





Verifiche SLE Frequenti *Shell* elemento nodi 10 7

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 4500.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 250.0 [kg/cm²]**

Sezione

- **sezione 1 H=30.00 [cm]**

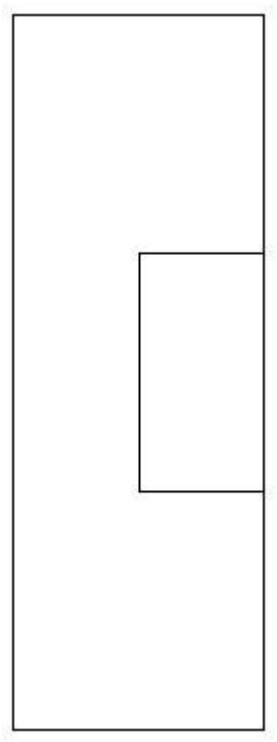
	Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
4.52	4.00	4.52	4.00	4.52	4.00	4.52	4.00

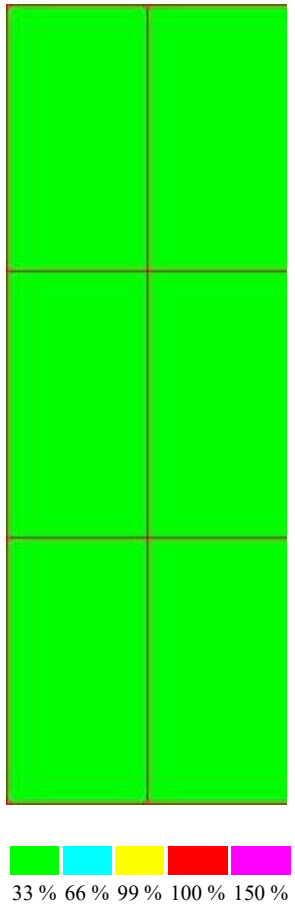
Azioni di verifica combinazione 39 (2.21 4.20 [m])

N_x	-83.5	[kg/m]	N_{11}	-174.0	[kg/m]
N_y	-130.6	[kg/m]	N_{22}	-40.1	[kg/m]
N_{xy}	62.7	[kg/m]	α	34.72	[°]
M_{xx}	-744.32	[kgm/m]	M_{11}	129.95	[kgm/m]
M_y	-129.96	[kgm/m]	M_{22}	744.33	[kgm/m]
M_{xy}	-1.75	[kgm/m]	α	-0.16	[°]

Verifiche

		Acciaio		**Calcestruzzo**			
Cr=S/R	**Posizione**	**σ_x [kg/cm²]**	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**	**Stato**	**Ampiezza Fessure mm**
0.16	Estradosso	-48.7	-8.6	-5.5	-86.05		
	Intradosso	52.0	3.3	0.0	11.29		





Verifiche SLE Quasi Permanenti *Shell* elemento nodi 10 7

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 4500.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 112.5 [kg/cm²]**
- **w_{Max} 0.30 mm**

Sezione

- **sezione 1 H=30.00 [cm]**

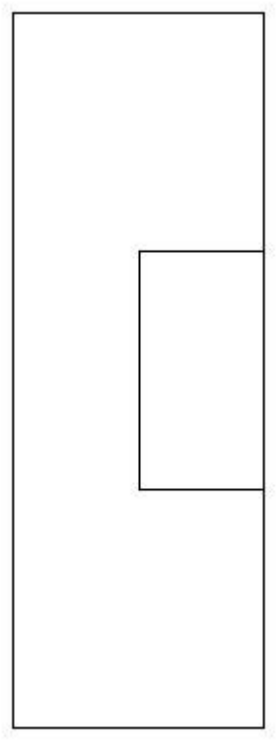
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
4.52	4.00	4.52	4.00	4.52	4.00	4.52	4.00

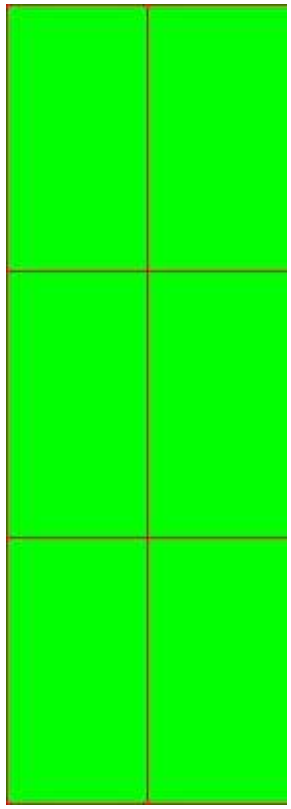
Azioni di verifica combinazione 42 (2.21 4.20 [m])

N_x	-79.8	[kg/m]	N_{11}	-169.5	[kg/m]
N_y	-125.7	[kg/m]	N_{22}	-36.0	[kg/m]
N_{xy}	62.7	[kg/m]	α	34.95	[°]
M_{xx}	-726.98	[kgm/m]	M_{11}	122.08	[kgm/m]
M_y	-122.08	[kgm/m]	M_{22}	726.98	[kgm/m]
M_{xy}	-1.75	[kgm/m]	α	-0.17	[°]

Verifiche

		Acciaio		**Calcestruzzo**			
Cr=S/R	**Posizione**	**σ_x [kg/cm²]**	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**	**Stato**	**Ampiezza Fessure mm**
0.15	Estradosso	-47.6	-8.0	-5.3	-85.78	NON Fessurato	0.000
	Intradosso	51.2	2.5	0.0	11.88	NON Fessurato	0.000





- **En.Ex.Sys. WinStrand**
- **Verifiche lastre/piastre**

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
  -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -

- Via statica equivalente.
- Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.
- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche lastre/piastre

Modalità di verifica

Gli elementi lastra/piastra possono essere distinti in due categorie in funzione dello stato di sollecitazione:

- elementi soggetti ad uno stato di sollecitazione semplice (flessione o tensionale a membrana);
- elementi soggetti ad uno stato di sollecitazione misto (flessionale e tensionale a membrana).

Le verifiche per stato di sollecitazione semplice sono svolte proiettando le armature lungo le direzioni principali e effettuando la verifica a flessione retta/membrana lungo tali direzioni.

Per gli elementi soggetti ad uno stato di sollecitazione misto, le direzioni principali variano, lungo lo sviluppo z dell'elemento, in modo continuo. Il codice di verifica procede a:

- suddivisione dell'elemento in strati di 1 cm di spessore;
- valutazione, per ogni strato, del corrispondente stato di deformazione e tensione membranale;
- ricostruzione, per sovrapposizione dei vari strati membranali, del comportamento globale dell'elemento soggetto allo stato misto di presso-flessione.

L'Utente può definire delle sezioni trasversali, per le quali le sollecitazioni sono valutate mediando integrazione sulla lunghezza della sezione

Nella determinazione della matrice di rigidezza degli strati di cls, si assume:

- Metodo T.A.: il calcestruzzo in compressione è assunto indefinitamente elastico lineare mentre, in trazione, si può assumere (opzionalmente) che sia in grado di assumere una trazione compresa fra 0 e f_{ct}, essendo f_{ct} la resstenza a trazione del calcestruzzo definita dall'EC2;
- Metodo S.L.U.: il metodo impiegato è quello noto come MCFT acronimo di "Modified Compression Field Method", sviluppato presso l'Università di Toronto da Collins e Del Vecchio a partire dagli anni '80. Il metodo, nella forma implementata, assume per la curva monoassiale tensione-deformazioni del cls quanto previsto dall'EC2;

La verifica a punzonamento può essere condotta considerando o non considerando autoequilibrate le tensioni nel terreno sotto il cono di punzonamento. L'angolo di diffusione è fissato dall'utente.

I copriferri indicati sono da intendersi riferiti al centro delle barre resistenti.

Simbologia utilizzata T.A.:

σ_{amm}
Tensione ammissibile
$\sigma_{amm,Trazione}$
Tensione ammissibile di trazione cls
$\sigma_{cls,1}$
Tensione cls direzione 1
$\sigma_{cls,2}$
Tensione cls direzione 2
$\sigma_{acciaio,1}$
Tensione acciaio direzione 1
$\sigma_{acciaio,2}$
Tensione acciaio direzione 2
$cf_{x,Eq}$
Copriferro in direzione x
Af_x
Armatura in direzione x
$cf_{y,Eq}$
Copriferro in direzione y
Af_y
Armatura in direzione y
N_x, N_y, N_{xy}, M_{xx}, M_{yy}, M_{xy}
Componenti di sollecitazione esterna
N_{11}, N_{22}, M_{11}, M_{22}, M_{12}
Componenti di sollecitazione principali
α
Angolo direzioni principali
d
Distanza a cui è calcolato il perimetro critico
$\tau_{b,0}$
Tensione ammissibile a taglio elementi privi di armatura a taglio
$\tau_{b,1}$
Tensione ammissibile a taglio elementi con armatura a taglio
N, Mx, My
Sollecitazione esterna verifica a punzonamento
τ

Tensione tangenziale massima

Simbologia utilizzata S.L.:

f_{yd}
Tensione di snervamento di progetto barre armatura
ε_{ud}
Deformazione uniforme ultima
ε_{yd}
Deformazione al limite di snervamento
f_{ck}
Resistenza cilindrica caratteristica
f_{cd}
Tensione di calcolo a compressione di base
ε_{c2}
Deformazione limite elastico
ε_{y}
Deformazione limite ultimo
f_{ctd}
Tensione di calcolo a trazione di progetto
ε_{ctd}
Deformazione al limite di trazione
E_{cm}
Modulo elastico
$cf_{x,Eq}$
Copriferro in direzione x
Af_{x}
Armatura in direzione x
$cf_{y,Eq}$
Copriferro in direzione y
Af_{y}
Armatura in direzione y
N_x, N_y, N_{xy}, M_{xx}, M_{yy}, M_{xy}
Componenti di sollecitazione esterna
N_{11}, N_{22}, M_{11}, M_{22}, M_{12}
Componenti di sollecitazione principali
α
Angolo direzioni principali
Cr
Coefficiente rottura S_D/S_R
ε_{x}
Deformazione acciaio direzione x
ε_{y}
Deformazione acciaio direzione y
ε_{min}
Deformazione minima cls
ε_{max}
Deformazione massima cls
θ_{max}
Angolo direzioni principali di deformazione

σ_{amm}
Tensione ammissibile S.L.E. di riferimento

σ_x
Tensione nelle barre nello S.L.E. di riferimento in direzione x

σ_y
Tensione nelle barre nello S.L.E. di riferimento in direzione y

$\sigma_{c,Max}$
Tensione massima nel cls nello S.L.E. di riferimento

d
Distanza a cui è calcolato il perimetro critico

$C_{Rd,c}$
Coefficiente taglio resistente elementi privi di armatura a taglio

V_{Ed}, Mx_{Ed}, My_{Ed}
Sollecitazione esterna verifica a punzonamento

B_x,B_y
Dimensioni perimetro critico

β
Angolo diffusione tensioni

v_{Ed}
Tensione tangenziale sull'area critica

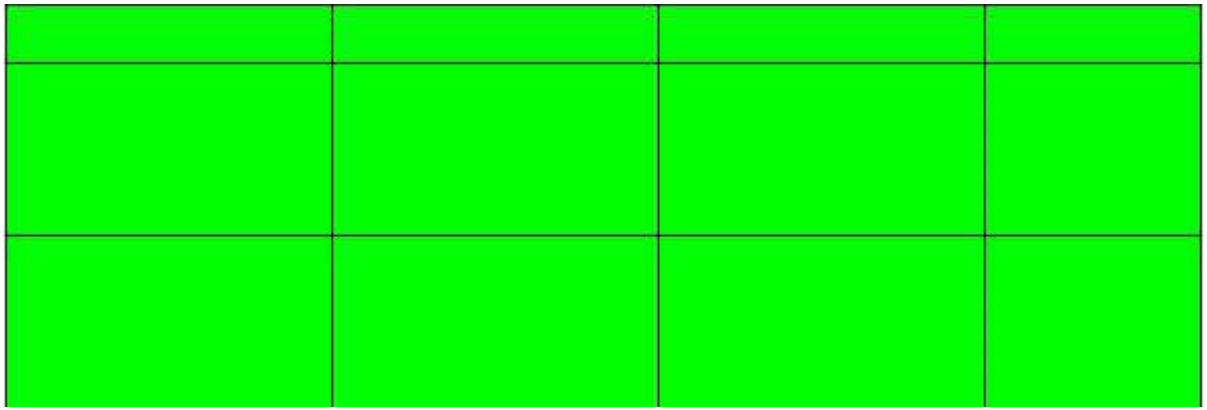
ρ
Rapporto meccanico di armatura

$V_{Rd,c}$
Taglio resistente elementi privi di armatura

Mappa armature di Estradosso

Colore	Armature
	top ø 12/20' X + ø 12/20' Y c=3.00 [cm]

Mappa armature di Intradosso



Colore	Armature
	bottom ø 12/20' X + ø 12/20' Y c=3.00 [cm]

Impostazioni di verifica

Curva σ/ε Calcestruzzo

- secondo Hognestad

Modellazione softening (trazione/compressione)

- $fc_{d,soft}$= fc_d 0.9/sqrt(1+400 et) / Hognestad

Modellazione compressione biassiale

- $fc_{d,biaxial}$= fc_d (1 + 3.8 α) / $(1.0+\alpha)^2$ / α=ec1/ec2 (EC2 Ponti 6.110)

Elementi più sollecitati per tipologia di sezione

Verifiche SLU *Shell* elemento nodi 111 118

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 12.0 [kg/cm²]**
- **ε_{ctd} 0.08 ‰**
- **E_{cm} 141666.7 [kg/cm²]**

Sezione

- **sezione 2 H=20.00 [cm]**

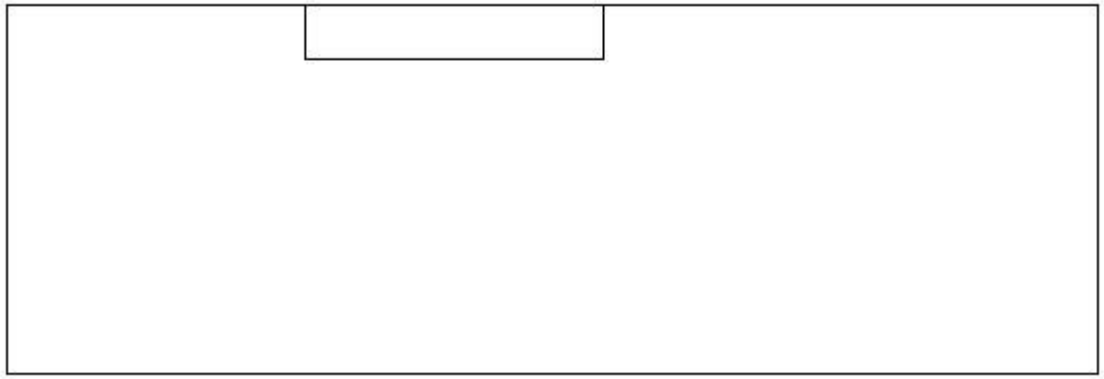
	Estradosso				**Intradosso**		
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	3.00	5.65	3.00	5.65	3.00	5.65	3.00

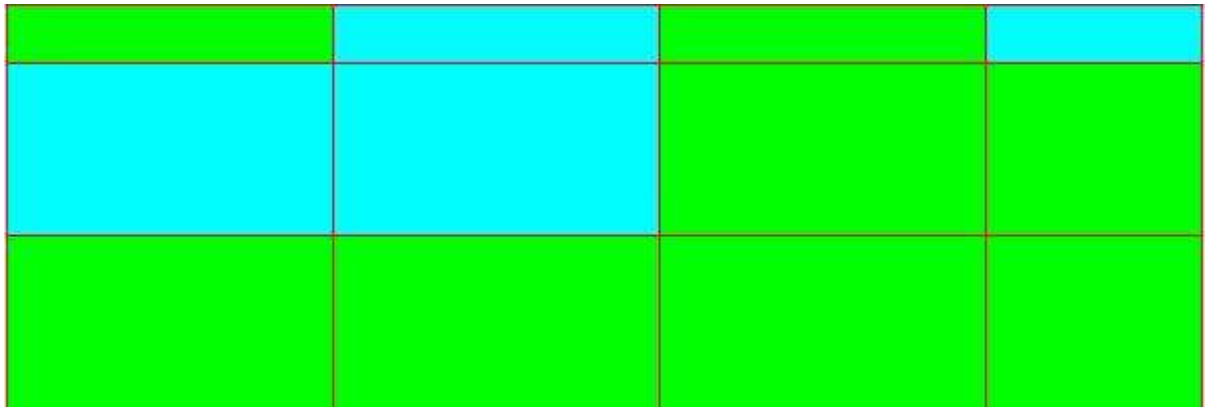
Azioni di verifica combinazione 2 (4.20 3.20 [m])

N_x	0.0	[kg/m]	N_{11}	0.0	[kg/m]
N_y	0.0	[kg/m]	N_{22}	0.0	[kg/m]
N_{xy}	0.0	[kg/m]	α	-0.00	[°]
M_{xx}	1896.61	[kgm/m]	M_{11}	-381.19	[kgm/m]
M_y	391.27	[kgm/m]	M_{22}	-1906.69	[kgm/m]
M_{xy}	123.60	[kgm/m]	α	-4.66	[°]

Verifiche

Cr=S/R	**Posizione**	**Acciaio**		**Calcestruzzo**		
		ε_x‰	**ε_y‰**	**ε_{min}‰**	**ε_{max}‰**	**θ [°]**
0.56	Estradosso	17.686	0.624	22.576	-0.006	10.66
	Intradosso	0.686	0.029	-0.046	-3.500	-81.87





33 % 66 % 99 % 100 % 150 %

Verifiche SLE Rare *Shell* elemento nodi 111 118

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 3600.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 150.0 [kg/cm²]**

Sezione

- **sezione 2 H=20.00 [cm]**

	Estradosso				**Intradosso**		
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	3.00	5.65	3.00	5.65	3.00	5.65	3.00

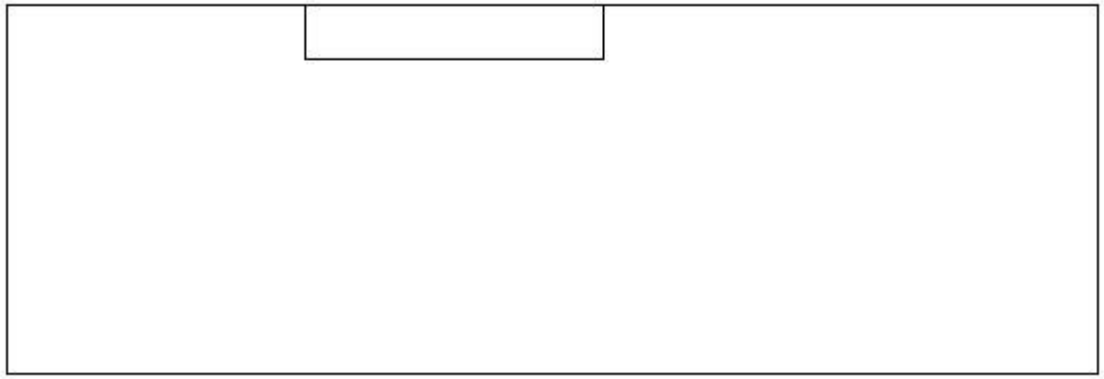
Azioni di verifica combinazione 37 (4.20 3.20 [m])

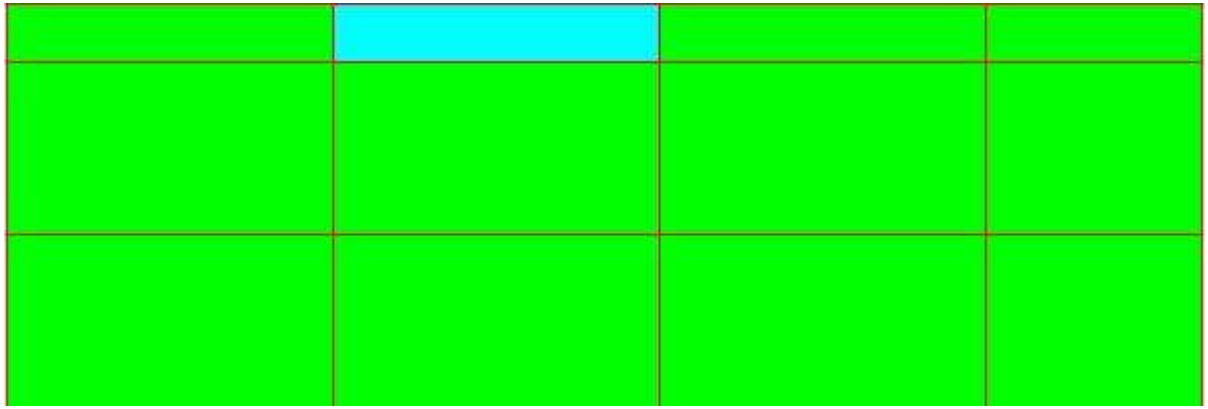
N_x	0.0	[kg/m]	N_{11}	0.0	[kg/m]
N_y	0.0	[kg/m]	N_{22}	0.0	[kg/m]
N_{xy}	0.0	[kg/m]	α	-0.00	[°]
M_{xx}	1411.68	[kgm/m]	M_{11}	-284.79	[kgm/m]
M_y	292.25	[kgm/m]	M_{22}	-1419.14	[kgm/m]
M_{xy}	91.69	[kgm/m]	α	-4.65	[°]

Verifiche

		Acciaio		**Calcestruzzo**			
Cr=S/R	**Posizione**	**σ_x [kg/cm²]**	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**	**Stato**	**Ampiezza Fessure mm**
0.41	Estradosso	182.5	37.8	0.0	5.12		

Intradosso -182.5 -37.8 -21.7 -84.88





33 % 66 % 99 % 100 % 150 %

Verifiche SLE Frequenti *Shell* elemento nodi 111 118

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 4500.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 250.0 [kg/cm²]**

Sezione

- **sezione 2 H=20.00 [cm]**

Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	3.00	5.65	3.00	5.65	3.00	5.65	3.00

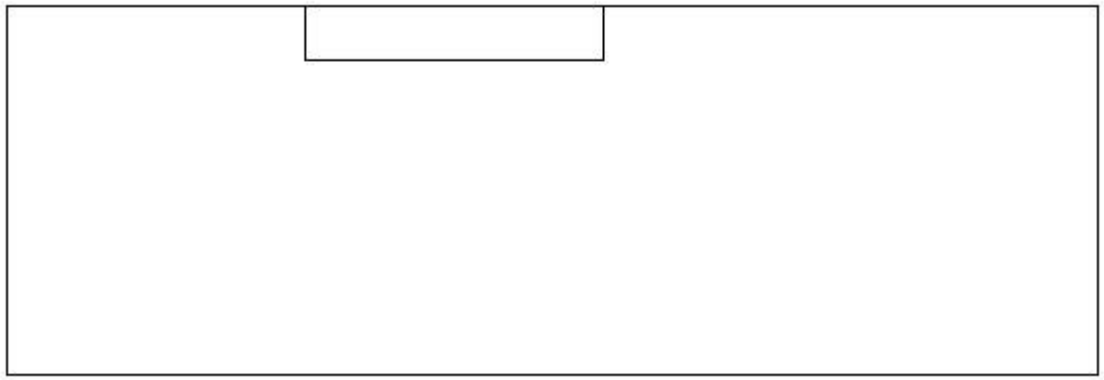
Azioni di verifica combinazione 40 (4.20 3.20 [m])

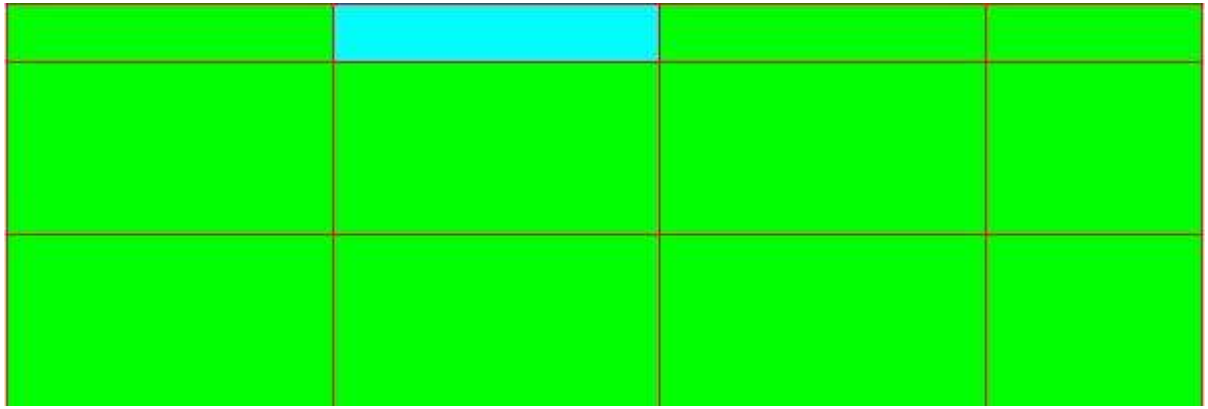
N_x	0.0	[kg/m]	N_{11}	0.0	[kg/m]
N_y	0.0	[kg/m]	N_{22}	0.0	[kg/m]
N_{xy}	0.0	[kg/m]	α	-0.00	[°]
M_{xx}	1165.08	[kgm/m]	M_{11}	-240.80	[kgm/m]
M_y	246.69	[kgm/m]	M_{22}	-1170.97	[kgm/m]
M_{xy}	73.80	[kgm/m]	α	-4.57	[°]

Verifiche

Cr=S/R	**Posizione**	**Acciaio**	**Calcestruzzo**	**Stato**

		σ_x [kg/cm²]	σ_y [kg/cm²]	$\sigma_{c,Max}$ [kg/cm²]	θ [°]	Ampiezza Fessure mm
0.34	Estradosso	150.7	31.9	0.0	5.03	
	Intradosso	-150.7	-31.9	-18.1	-84.97	





33 % 66 % 99 % 100 % 150 %

Verifiche SLE Quasi Permanenti *Shell* elemento nodi 111 118

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 4500.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 112.5 [kg/cm²]**
- **w_{Max} 0.30 mm**

Sezione

- **sezione 2 H=20.00 [cm]**

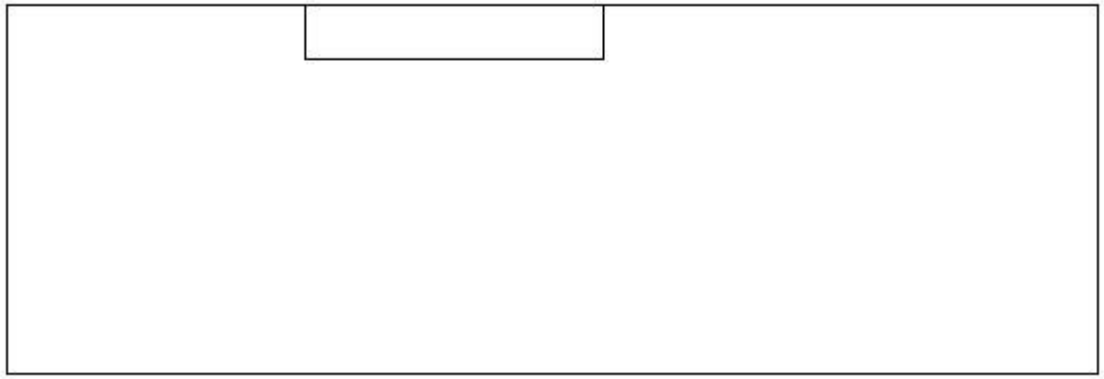
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	3.00	5.65	3.00	5.65	3.00	5.65	3.00

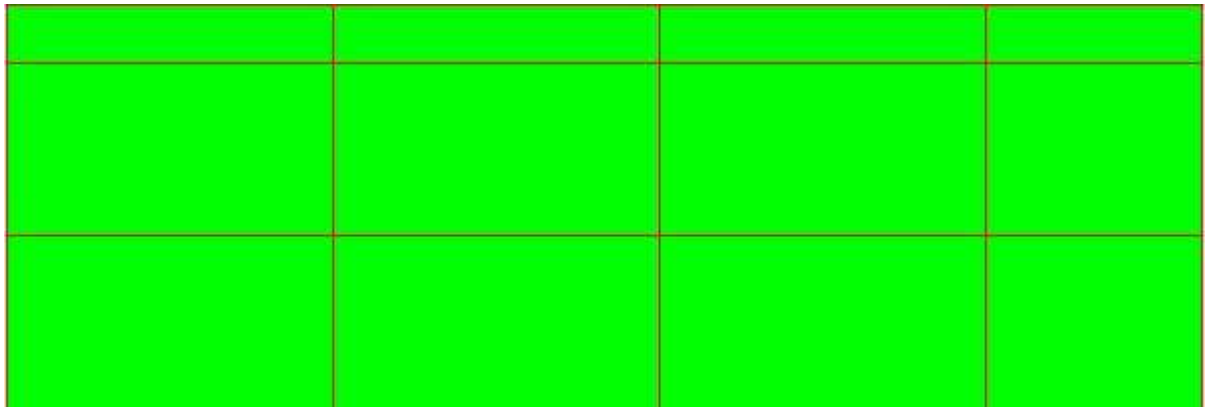
Azioni di verifica combinazione 42 (4.20 3.20 [m])

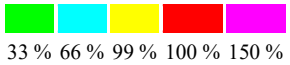
N_x	0.0	[kg/m]	N_{11}	0.0	[kg/m]
N_y	0.0	[kg/m]	N_{22}	0.0	[kg/m]
N_{xy}	0.0	[kg/m]	α	-0.00	[°]
M_{xx}	1103.36	[kgm/m]	M_{11}	-229.79	[kgm/m]
M_y	235.28	[kgm/m]	M_{22}	-1108.86	[kgm/m]
M_{xy}	69.30	[kgm/m]	α	-4.54	[°]

Verifiche

Cr=S/R	Posizione	Acciaio σ_x [kg/cm²]	Acciaio σ_y [kg/cm²]	Calcestruzzo $\sigma_{c,Max}$ [kg/cm²]	Calcestruzzo θ [°]	Stato	Ampiezza Fessure mm
0.32	Estradosso	142.7	30.4	0.0	5.00	NON Fessurato	0.000
	Intradosso	-142.7	-30.4	-17.2	-85.00	NON Fessurato	0.000







AMPLIAMENTO CIVICO CIMITERO MASSA FERMANA – CORPO B – SOLETTA COPERTURA

Verifiche a PUNZONAMENTO Stati Limite

Dati di verifica

- Distanza a cui è calcolato il perimetro critico d=H * 1.00
- Le tensioni nel terreno **vanno** ad equilibrare V_{Ed}

Materiali

Calcestruzzo

- f_{ck} 250.0 [kg/cm²]
- f_{cd} 141.7 [kg/cm²]
- $V_{Rd,max}$ 38.3 [kg/cm²]
- $C_{Rd,c}$ 0.12

Acciaio

- f_y 3913.0 [kg/cm²]

Elemento	Perimetro Critico [cm]	H [cm]	Tipo	A_{soil} [m²]	Comb. Crit.	σ_{soil} [kg/cm²]	N_{Ed} [kN]	N_{soil} [kN]	V_{Ed} [kN]	Mx_{Ed} [kgm]	My_{Ed} [kgm]	B_x [cm]	B_y [cm]	Estradosso Af [cm²]/m	Estradosso cf [cm]	Intradosso Af [cm²]/m	Intradosso cf [cm]	d [cm]	W1 [cm²]	k (fr. 6.39)	β	k (fr. 6.47)	ρ	v_{Ed} [kg/cm²]	$V_{Rd,c}$ [kg/cm²]	U_o[cm]	$v_{Ed,max}$ [kg/cm²]
Diaframma Nodi 101...104 Sezione 1	876.66	20.00	Interno	0.0	2	0.0	-137.11	0.00	-137.11	9411.7	-2922.3	840.00	17.00	5.65	3.00	5.65	3.00	17.00	5982793.33	0.535	1.56	2.000	0.0033	-1.4	4.9	1714.00	-0.7
Diaframma Nodi 109...101 Sezione 1	663.31	20.00	Interno	0.0	2	0.0	-164.05	0.00	-164.05	-2508.4	11767.0	295.00	17.00	5.65	3.00	5.65	3.00	17.00	1820628.17	0.789	3.11	2.000	0.0033	-4.5	4.9	624.00	-4.8
Diaframma Nodi 112...104 Sezione 1	336.36	20.00	Bordo	0.0	2	0.0	-87.42	0.00	-87.42	5040.9	8549.1	295.00	20.00	5.65	3.00	5.65	3.00	17.00	1511157.75	0.736	2.86	2.000	0.0033	-4.4	4.9	71.00	-20.7

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
  -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -
    - Via statica equivalente.
    - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.

- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche travi

Modalità di verifica

Le travi vengono progettate-verificate a flessione retta e taglio nel piano longitudinale della trave sulla base dell'inviluppo delle sollecitazioni.

Viene comunque sempre predisposta l'armatura minima mentre gli sforzi di taglio vengono integralmente assorbiti dalle staffe.

Le operazioni di progetto-verifica vengono condotte, per ogni asta, in tre diverse sezioni e precisamente in corrispondenza dei fili esterni dei pilastri e della sezione in campata nella quale viene riscontrato il massimo momento positivo (negativo).

I momenti si intendono postivi se tendono le fibre di intradosso (inferiori).

Per quanto concerne il progetto e la verifica delle travi a taglio esse vengono condotte nel modo seguente:

- Si controlla se la trave necessita o meno di armatura aggiuntiva a taglio:
    1. Se non occorre armatura aggiuntiva a taglio si procede a disporre la staffatura minima di regolamento e la progettazione ha termine.
    2. Se occorre armatura aggiuntiva a taglio la staffatuta viene progettata andando a suddividere la trave, a seconda del caso, in uno, tre o cinque conci:
        - due tronchi in prossimità degli appoggi di lunghezza pari all'altezza della sezione;
        - due altri (eventuali) tronchi dall'ascissa precedente a quella in cui il taglio può essere assorbito con la sola staffatura minima da regolamento
        - un restante (eventuale) concio di chiusura centrale.
- In ogni caso l'armatura a taglio si intende simmetrica rispetto alla mezzeria della trave e viene progettata considerando, rispetto alla mezzeria, la zona della trave più sollecitata.

Per quanto concerne le verifiche a taglio esse vengono condotte suddividendo la trave in cinque conci:

due tronchi in prossimità degli appoggi di lunghezza pari all'altezza della sezione; due altri (eventuali) tronchi dall'ascissa precedente a quella in cui il taglio può essere assorbito con la sola staffatura minima da regolamento; il restante (eventuale) concio di chiusura centrale.

L'armatura a taglio si intende simmetrica rispetto alla mezzeria della trave e viene progettata considerando, rispetto alla mezzeria, la zona della trave più sollecitata.

Simbologia utilizzata:

Af Es.
: Area di ferro all'estradosso

Af In.
: Area di ferro all'intradosso

Sigb.Es.
: Tensione del calcestruzzo estradosso

Sigb. In.
: Tensione del calcestruzzo intradosso

Sigf. Es.
: Tensione dell'acciaio estradosso

Sigf. In.
: Tensione dell'acciaio intradosso

Sezioni Impiegate: Trave

Sezioni Nuove

Sez. Num.	Info	Dimensioni	Criterio	Calcestruzzo	γ_M	F.C.	f_{ck} [kg/cm²]	f_{cd} [kg/cm²]	σ_{RARE} [kg/cm²]	σ_{FREQ} [kg/cm²]	σ_{QP} [kg/cm²]	Acciaio	γ_M	F.C.	f_{yk} [kg/cm²]	f_{yd} [kg/cm²]	σ_{yRARE} [kg/cm²]	σ_{yFRE} [kg/cr

2	Rett. 70X50	B 70 [cm] H 50 [cm]	Vertrav	C25/30	1.50	1.00	250.0	141.7	150.0	250.0	112.5	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0

Verifica a fessurazione indiretta

Fattore di sovraresistenza Travi $\gamma_{R,d\ (Nuovo)}$=0.00 $\gamma_{R,d\ (Esistente)}$=0.00
Fattore di sovraresistenza delle azioni sulle Fondazioni $\gamma_{R,d\ (Nuovo)}$=0.00 $\gamma_{R,d\ (Esistente)}$=0.00

Verifiche Travate :

Travata: ***Travata 1 Nodi 1 2 3 4***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
1	0.13	4.28	5.93			1124.7	7772.8	0.09	-150.6	-10303.2	0.09					
				SLE Rare		696.0			0.0			0.0	5.6	271.5	23.9	
				SLE Freq.		691.1			0.0			0.0	5.5	269.6	23.7	OK
				SLE Q.P.		688.9			0.0			0.0	5.5	268.7	23.7	OK
Camp.	1.40	6.16	6.16	2437.5	1194.4	0.0	10693.9	0.10	-1194.4	-10693.9	0.10					
				SLE Rare		0.0			-918.8			6.2	0.0	37.4	362.2	
				SLE Freq.		0.0			-918.8			6.2	0.0	37.4	362.2	OK
				SLE Q.P.		0.0			-918.8			6.2	0.0	37.4	362.2	OK
2	2.67	6.16	6.16			991.0	10693.9	0.10	0.0	-10693.9	0.10					
				SLE Rare		766.1			0.0			0.0	5.2	302.0	31.2	
				SLE Freq.		765.7			0.0			0.0	5.2	301.8	31.1	OK
				SLE Q.P.		763.8			0.0			0.0	5.2	301.1	31.1	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
2	0.13	6.16	6.16			1140.4	10693.9	0.10	0.0	-10693.9	0.10					
				SLE Rare		879.7			0.0			0.0	6.0	346.8	35.8	
				SLE Freq.		882.2			0.0			0.0	6.0	347.8	35.9	OK
				SLE Q.P.		882.0			0.0			0.0	6.0	347.7	35.9	OK
Camp.	1.40	6.16	11.31	2437.5	1194.4	0.0	10736.9	0.11	-1194.4	-18685.5	0.12					
				SLE Rare		0.0			-918.8			4.9	0.0	39.4	201.1	
				SLE Freq.		0.0			-918.8			4.9	0.0	39.4	201.1	OK
				SLE Q.P.		0.0			-918.8			4.9	0.0	39.4	201.1	OK
3	2.67	8.20	6.16			1137.1	13858.2	0.11	0.0	-10715.5	0.10					
				SLE Rare		877.3			0.0			0.0	5.3	197.7	37.2	
				SLE Freq.		880.3			0.0			0.0	5.3	198.4	37.4	OK
				SLE Q.P.		880.2			0.0			0.0	5.3	198.4	37.4	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
3	0.13	8.20	6.16			1092.8	13858.2	0.11	0.0	-10715.5	0.10					
				SLE Rare		776.6			0.0			0.0	4.7	185.3	33.0	
				SLE Freq.		774.6			0.0			0.0	4.7	184.8	32.9	OK
				SLE Q.P.		772.4			0.0			0.0	4.7	184.3	32.8	OK
Camp.	1.40	6.16	6.16	2437.5	1194.4	0.0	10693.9	0.10	-1194.4	-10693.9	0.10					
				SLE Rare		0.0			-918.7			6.2	0.0	37.4	362.2	
				SLE Freq.		0.0			-918.7			6.2	0.0	37.4	362.2	OK
				SLE Q.P.		0.0			-918.7			6.2	0.0	37.4	362.2	OK
4	2.67	4.28	5.93			1040.9	7772.8	0.09	-45.7	-10303.2	0.09					
				SLE Rare		711.8			0.0			0.0	5.7	277.6	24.5	
				SLE Freq.		705.7			0.0			0.0	5.6	275.3	24.2	OK
				SLE Q.P.		703.2			0.0			0.0	5.6	274.3	24.2	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 1 2 Sez. 2 Rett. 70x50 [cm] 70X50								
0.13	2.67	2.55	1.00	31.43	117.87	995.37	210.54	ø 8 4br. 15.0'
Trave 2 3 Sez. 2 Rett. 70x50 [cm] 70X50								
0.13	2.67	2.55	1.00	31.09	117.87	995.37	210.54	ø 8 4br. 15.0'
Trave 3 4 Sez. 2 Rett. 70x50 [cm] 70X50								
0.13	2.67	2.55	1.00	31.40	117.87	995.37	210.54	ø 8 4br. 15.0'

Travata: ***Travata 3 Nodi 9 10 11 12***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
9	0.30	6.16	6.16			1370.6	10693.9	0.10	-1128.1	-10693.9	0.10					
				SLE Rare		118.2			0.0			0.0	0.8	46.6	4.8	
				SLE Freq.		123.4			0.0			0.0	0.8	48.6	5.0	OK
				SLE Q.P.		123.2			0.0			0.0	0.8	48.6	5.0	OK
Camp.	1.41	6.16	6.16	1137.5	557.4	204.2	10693.9	0.10	-853.1	-10693.9	0.10					
				SLE Rare		0.0			-428.8			2.9	0.0	17.4	169.0	
				SLE Freq.		0.0			-428.8			2.9	0.0	17.4	169.0	OK
				SLE Q.P.		0.0			-428.8			2.9	0.0	17.4	169.0	OK
10	2.52	6.16	6.16			1248.2	10693.9	0.10	-319.7	-10693.9	0.10					
				SLE Rare		607.9			0.0			0.0	4.1	239.6	24.7	
				SLE Freq.		542.5			0.0			0.0	3.7	213.9	22.1	OK
				SLE Q.P.		522.3			0.0			0.0	3.6	205.9	21.2	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
10	0.30	6.16	6.16			1781.3	10693.9	0.10	-1005.3	-10693.9	0.10					
				SLE Rare		586.5			0.0			0.0	4.0	231.2	23.9	
				SLE Freq.		509.4			0.0			0.0	3.5	200.8	20.7	OK
				SLE Q.P.		480.7			0.0			0.0	3.3	189.5	19.5	OK
Camp.	1.41	3.95	7.04	1137.5	557.4	1080.3	7278.9	0.09	-1389.5	-12027.6	0.10					
				SLE Rare		0.0			-428.8			2.8	0.0	7.0	108.3	
				SLE Freq.		0.0			-428.8			2.8	0.0	7.0	108.3	OK
				SLE Q.P.		0.0			-428.8			2.8	0.0	7.0	108.3	OK
11	2.52	6.16	6.16			1894.7	10693.9	0.10	-1139.5	-10693.9	0.10					
				SLE Rare		540.1			0.0			0.0	3.7	212.9	22.0	
				SLE Freq.		469.4			0.0			0.0	3.2	185.1	19.1	OK
				SLE Q.P.		442.3			0.0			0.0	3.0	174.4	18.0	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
11	0.30	6.16	6.16			1208.4	10693.9	0.10	-433.3	-10693.9	0.10					
				SLE Rare		514.5			0.0			0.0	3.5	202.8	20.9	
				SLE Freq.		463.5			0.0			0.0	3.2	182.7	18.9	OK
				SLE Q.P.		446.9			0.0			0.0	3.0	176.2	18.2	OK
Camp.	1.41	6.16	6.16	1137.5	557.4	55.2	10693.9	0.10	-750.4	-10693.9	0.10					
				SLE Rare		0.0			-428.7			2.9	0.0	17.4	169.0	
				SLE Freq.		0.0			-428.7			2.9	0.0	17.4	169.0	OK
				SLE Q.P.		0.0			-428.7			2.9	0.0	17.4	169.0	OK
12	2.52	6.16	6.16			1116.3	10693.9	0.10	-893.0	-10693.9	0.10					
				SLE Rare		134.0			0.0			0.0	0.9	52.8	5.4	
				SLE Freq.		136.2			0.0			0.0	0.9	53.7	5.5	OK
				SLE Q.P.		136.1			0.0			0.0	0.9	53.6	5.5	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 9 10 Sez. 2 Rett. 70x50 [cm] 70X50								
0.39	2.44	2.05	1.00	20.39	117.87	995.37	210.54	ø 8 4br. 15.0'
Trave 10 11 Sez. 2 Rett. 70x50 [cm] 70X50								
0.39	2.44	2.05	1.00	14.07	117.87	995.37	210.54	ø 8 4br. 15.0'
Trave 11 12 Sez. 2 Rett. 70x50 [cm] 70X50								
0.39	2.44	2.05	1.00	17.73	117.87	995.37	210.54	ø 8 4br. 15.0'

Travata: ***Travata 4 Nodi 1 5 9***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
1	0.13	5.70	7.41			734.1	9996.4	0.10	-388.9	-12632.4	0.10					
				SLE Rare		427.3			0.0			0.0	3.0	126.3	16.0	
				SLE Freq.		370.3			0.0			0.0	2.6	109.5	13.9	OK
				SLE Q.P.		354.2			0.0			0.0	2.5	104.7	13.3	OK
Camp.	0.80	15.39	15.39	2437.5	331.4	0.0	24933.9	0.14	-1030.8	-24943.3	0.14					
				SLE Rare		0.0			-633.1			2.7	0.0	23.4	102.9	
				SLE Freq.		0.0			-634.6			2.8	0.0	23.5	103.1	OK
				SLE Q.P.		0.0			-625.6			2.7	0.0	23.1	101.7	OK
5	1.48	15.39	15.39			0.0	24943.3	0.14	-1133.9	-24943.3	0.14					
				SLE Rare		0.0			-818.3			3.6	0.0	30.2	133.0	
				SLE Freq.		0.0			-765.5			3.3	0.0	28.3	124.4	OK
				SLE Q.P.		0.0			-751.1			3.3	0.0	27.8	122.1	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
5	0.00	15.39	15.39			0.0	24943.3	0.14	-2070.0	-24943.3	0.14					
				SLE Rare		0.0			-1509.6			6.6	0.0	55.8	245.3	
				SLE Freq.		0.0			-1358.6			5.9	0.0	50.2	220.8	OK
				SLE Q.P.		0.0			-1330.0			5.8	0.0	49.2	216.1	OK
Camp.	0.68	15.39	15.39	2437.5	331.4	0.0	24933.9	0.14	-1973.0	-24943.3	0.14					
				SLE Rare		0.0			-1336.0			5.8	0.0	49.4	217.1	
				SLE Freq.		0.0			-1224.4			5.3	0.0	45.3	199.0	OK
				SLE Q.P.		0.0			-1201.4			5.2	0.0	44.4	195.3	OK
9	1.35	5.70	7.41			468.2	9996.4	0.10	-1197.4	-12632.4	0.10					
				SLE Rare		0.0			-308.4			1.9	0.0	9.1	97.8	
				SLE Freq.		0.0			-236.4			1.5	0.0	7.0	75.0	OK
				SLE Q.P.		0.0			-218.9			1.4	0.0	6.4	69.4	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 1 5 Sez. 2 Rett. 70x50 [cm] 70X50								
0.13	1.48	1.35	1.00	28.78	117.87	995.37	210.54	ø 8 4br. 15.0'
Trave 5 9 Sez. 2 Rett. 70x50 [cm] 70X50								
0.00	1.35	1.35	1.00	28.36	117.87	995.37	210.54	ø 8 4br. 15.0'

Travata: ***Travata 5 Nodi 2 6 10***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 70x50 [cm] 70X50																

2	0.13	5.70	7.41		299.0	9996.4	0.10	-3214.9	-12632.4	0.10						
				SLE Rare	0.0			-1422.1			9.0	0.0	41.9	451.0	
				SLE Freq.	0.0			-1375.0			8.7	0.0	40.5	436.0	OK
				SLE Q.P.	0.0			-1351.0			8.5	0.0	39.8	428.4	OK
Camp.	0.80	15.39	15.39	1137.5 154.7	0.0	24933.9	0.14	-3652.1	-24943.3	0.14						
				SLE Rare	0.0			-2228.0			9.7	0.0	82.4	362.1	
				SLE Freq.	0.0			-2172.4			9.4	0.0	80.3	353.1	OK
				SLE Q.P.	0.0			-2130.7			9.2	0.0	78.8	346.3	OK
6	1.48	15.39	15.39		0.0	24943.3	0.14	-3723.3	-24943.3	0.14						
				SLE Rare	0.0			-2635.3			11.4	0.0	97.4	428.3	
				SLE Freq.	0.0			-2571.2			11.2	0.0	95.0	417.9	OK
				SLE Q.P.	0.0			-2511.7			10.9	0.0	92.8	408.2	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
6	0.00	15.39	15.39		0.0	24943.3	0.14	-3622.2	-24943.3	0.14						
				SLE Rare	0.0			-2678.5			11.6	0.0	99.0	435.3	
				SLE Freq.	0.0			-2614.3			11.3	0.0	96.6	424.9	OK
				SLE Q.P.	0.0			-2543.6			11.0	0.0	94.0	413.4	OK
Camp.	0.68	15.39	15.39	1137.5 154.7	0.0	24933.9	0.14	-3363.3	-24943.3	0.14						
				SLE Rare	0.0			-2276.1			9.9	0.0	84.1	369.9	
				SLE Freq.	0.0			-2228.1			9.7	0.0	82.4	362.1	OK
				SLE Q.P.	0.0			-2171.6			9.4	0.0	80.3	352.9	OK
10	1.35	6.36	7.41		0.0	11017.5	0.10	-2860.9	-12638.5	0.10						
				SLE Rare	0.0			-1475.3			9.3	0.0	46.7	467.9	
				SLE Freq.	0.0			-1443.3			9.1	0.0	45.7	457.8	OK
				SLE Q.P.	0.0			-1401.1			8.8	0.0	44.3	444.4	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 2 6 Sez. 2 Rett. 70x50 [cm] 70X50								
0.13	1.48	1.35	1.00	19.96	117.87	995.37	210.54	ø 8 4br. 15.0'
Trave 6 10 Sez. 2 Rett. 70x50 [cm] 70X50								
0.00	1.35	1.35	1.00	19.73	117.87	995.37	210.54	ø 8 4br. 15.0'

Travata: ***Travata 6 Nodi 3 7 11***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
3	0.30	6.16	6.16			115.3	10693.9	0.10	-3325.3	-10693.9	0.10					
				SLE Rare		0.0			-1588.5			10.8	0.0	64.6	626.2	
				SLE Freq.		0.0			-1532.0			10.4	0.0	62.3	603.9	OK
				SLE Q.P.		0.0			-1506.0			10.2	0.0	61.2	593.6	OK
Camp.	0.87	6.16	6.16	1137.5	154.7	0.0	10693.9	0.10	-3698.9	-10693.9	0.10					
				SLE Rare		0.0			-2299.5			15.6	0.0	93.5	906.5	
				SLE Freq.		0.0			-2238.5			15.2	0.0	91.0	882.4	OK
				SLE Q.P.		0.0			-2195.6			14.9	0.0	89.3	865.5	OK
7	1.44	6.16	6.16			0.0	10693.9	0.10	-3755.0	-10693.9	0.10					
				SLE Rare		0.0			-2658.8			18.1	0.0	108.1	1048.1	
				SLE Freq.		0.0			-2593.3			17.6	0.0	105.5	1022.3	OK
				SLE Q.P.		0.0			-2533.7			17.2	0.0	103.0	998.8	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
7	0.00	6.16	6.16			0.0	10693.9	0.10	-3576.1	-10693.9	0.10					
				SLE Rare		0.0			-2643.9			18.0	0.0	107.5	1042.2	
				SLE Freq.		0.0			-2585.8			17.6	0.0	105.2	1019.3	OK

				SLE Q.P.	0.0			-2515.0			17.1	0.0	102.3	991.4	OK
Camp.	0.57	6.16	6.16	1137.5	154.7	0.0	10693.9	0.10	-3338.6	-10693.9	0.10				
				SLE Rare	0.0			-2276.9			15.5	0.0	92.6	897.5	
				SLE Freq.	0.0			-2233.2			15.2	0.0	90.8	880.3	OK
				SLE Q.P.	0.0			-2175.8			14.8	0.0	88.5	857.7	OK
11	1.13	6.16	6.16		0.0		10693.9	0.10	-2895.7	-10693.9	0.10				
				SLE Rare	0.0			-1558.2			10.6	0.0	63.4	614.2	
				SLE Freq.	0.0			-1528.9			10.4	0.0	62.2	602.7	OK
				SLE Q.P.	0.0			-1485.0			10.1	0.0	60.4	585.4	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 3 7 Sez. 2 Rett. 70x50 [cm] 70X50								
0.38	1.40	1.01	1.00	18.81	117.87	995.37	210.54	ø 8 4br. 15.0'
Trave 7 11 Sez. 2 Rett. 70x50 [cm] 70X50								
0.00	1.01	1.01	1.00	18.79	117.87	995.37	210.54	ø 8 4br. 15.0'

Travata: ***Travata 7 Nodi 4 8 12***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
4	0.13	5.70	7.41			651.6	9996.4	0.10	-396.4	-12632.4	0.10					
				SLE Rare		355.3			0.0			0.0	2.5	105.0	13.3	
				SLE Freq.		312.3			0.0			0.0	2.2	92.3	11.7	OK
				SLE Q.P.		299.7			0.0			0.0	2.1	88.6	11.2	OK
Camp.	0.80	15.39	15.39	2437.5	331.4	0.0	24933.9	0.14	-983.1	-24943.3	0.14					
				SLE Rare		0.0			-619.2			2.7	0.0	22.9	100.6	
				SLE Freq.		0.0			-620.8			2.7	0.0	22.9	100.9	OK
				SLE Q.P.		0.0			-611.8			2.7	0.0	22.6	99.4	OK
8	1.48	15.39	15.39			0.0	24943.3	0.14	-1034.8	-24943.3	0.14					
				SLE Rare		0.0			-718.3			3.1	0.0	26.5	116.7	
				SLE Freq.		0.0			-683.4			3.0	0.0	25.3	111.1	OK
				SLE Q.P.		0.0			-669.0			2.9	0.0	24.7	108.7	OK
Trave Sez. 2 Rett. 70x50 [cm] 70X50																
8	0.00	15.39	15.39			0.0	24943.3	0.14	-1814.0	-24943.3	0.14					
				SLE Rare		0.0			-1298.7			5.6	0.0	48.0	211.1	
				SLE Freq.		0.0			-1182.7			5.1	0.0	43.7	192.2	OK
				SLE Q.P.		0.0			-1162.8			5.0	0.0	43.0	189.0	OK
Camp.	0.68	15.39	15.39	2437.5	331.4	0.0	24933.9	0.14	-1753.3	-24943.3	0.14					
				SLE Rare		0.0			-1192.5			5.2	0.0	44.1	193.8	
				SLE Freq.		0.0			-1106.4			4.8	0.0	40.9	179.8	OK
				SLE Q.P.		0.0			-1089.8			4.7	0.0	40.3	177.1	OK
12	1.35	5.70	7.41			625.0	9996.4	0.10	-1225.3	-12632.4	0.10					
				SLE Rare		0.0			-232.3			1.5	0.0	6.8	73.7	
				SLE Freq.		0.0			-176.2			1.1	0.0	5.2	55.9	OK
				SLE Q.P.		0.0			-163.1			1.0	0.0	4.8	51.7	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 4 8 Sez. 2 Rett. 70x50 [cm] 70X50								
0.13	1.48	1.35	1.00	27.07	117.87	995.37	210.54	ø 8 4br. 15.0'

Trave 8 12 Sez. 2 Rett. 70x50 [cm] 70X50

0.00 1.35 1.35 1.00 27.02 117.87 995.37 210.54 ø 8 4br. 15.0'

- En.Ex.Sys. WinStrand
- Verifiche travi