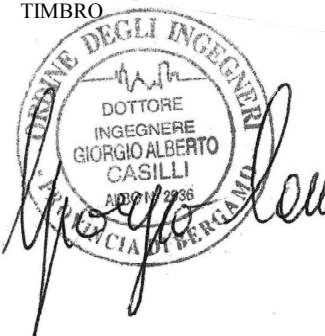


VALBONDIONE

TERRAZZA ESTERNA

PROGETTISTA	Dott. Ing. Giorgio Alberto Casilli	TIMBRO 
FIRMA		



ANALISI STRUTTURALE

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DATA: 17-1-2020		PRATICA:	FILE: \\192.168.1.2\documenti condivisi\disb\arch.carnicelli\0 valbondione\strutture terrazzo\fascicolo dei calcoli.docx	ELAB N° : E-ST-00-00	
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rev. 0	-	EMISSIONE			
revisione	data	motivo della revisione:	redatto da:	controllato da:	approvato da:

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FASCICOLO DEI CALCOLI

Programma: **CMP v.30.00**

Codice Utente: **33016**

Data ed ora dell'elaborazione: **17-1-2020 , 13:16:53**

Nome Modello: **TERRAZZOagg**

Nome File: **TERRAZZOagg.cmp**

**VALBONDIONE
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FASCICOLO DEI CALCOLI

1. DESCRIZIONE DEI DATI DEL MODELLO

Di seguito sono descritti i dati geometrici e non del modello fisico-matematico utilizzato per il calcolo strutturale.

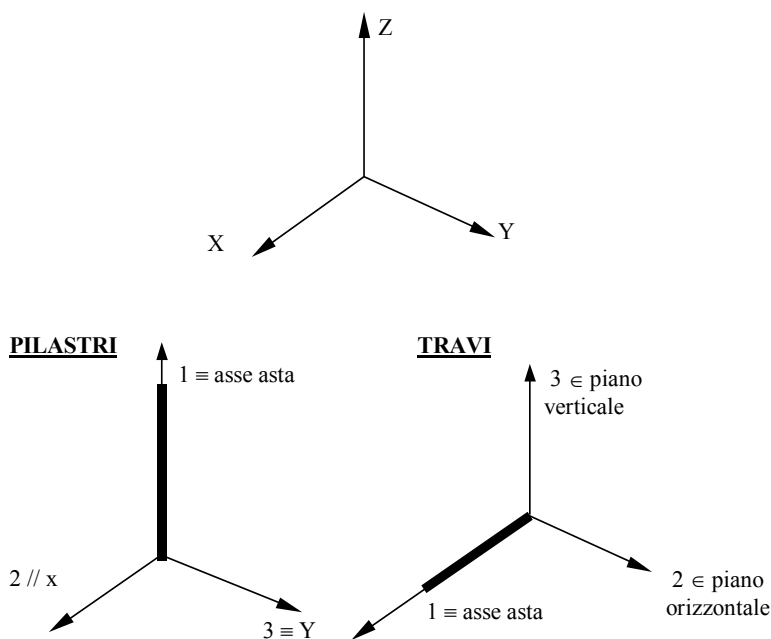
1.1 INTRODUZIONE

1.1.1 SISTEMI DI RIFERIMENTO

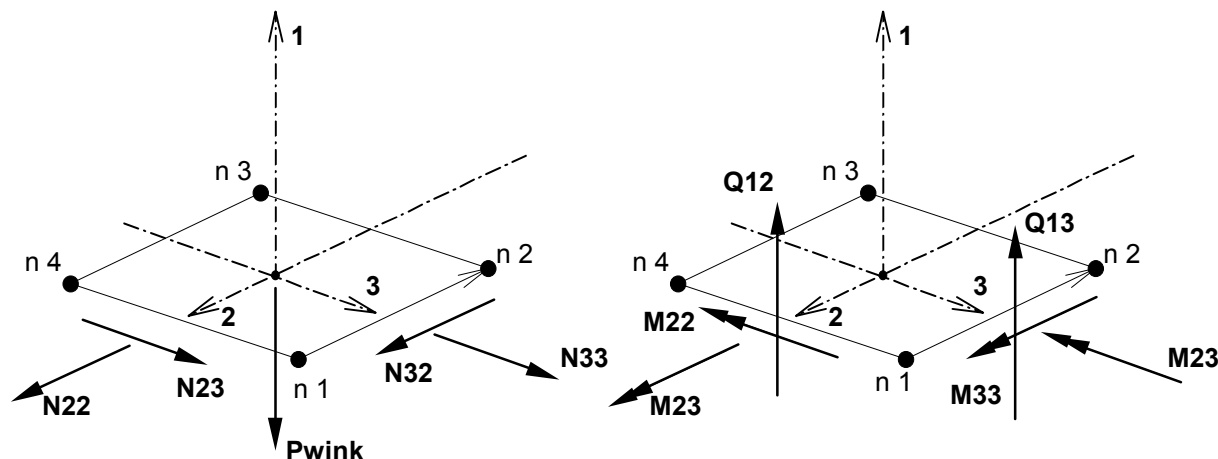
Il Sistema di Riferimento Globale XYZ è una Terna destrorsa cartesiana con l'asse Z verticale rivolto verso l'alto.

Il Sistema di Riferimento Locale 123 degli Elementi tipo Beam è una Terna destrorsa Cartesiana con asse 1 avente la direzione dell'elemento, asse 2 definibile dall'utente e asse 3 avente la direzione che completa la terna.

Il Sistema di Riferimento Locale 123 predefinito degli Elementi tipo Shell è una Terna destrorsa cartesiana con origine nel baricentro dell'Elemento, asse 1 avente la direzione della normale, asse 2 avente la direzione della congiungente i punti medi dei due lati N2-N3 e N1-N4 (N1,N2,N3,N4 sono i nodi che definiscono l'elemento) e asse 3 avente la direzione che completa la terna.



Riferimento locale aste e sezioni



Convenzioni di segno - sollecitazioni Shell

1.1.2 MODELLAZIONE

La Modellazione Numerica della struttura, la rielaborazione dei risultati dell'analisi agli Elementi Finiti, la progettazione-verifica degli elementi strutturali sono state condotte utilizzando il programma CMP realizzato da Namirial S.p.A - Senigallia (AN). Il solutore ad elementi finiti utilizzato è *XFINEST della Ce.A.S. di Milano*.

1.1.3 NORMATIVA

Per la progettazione e verifica degli elementi strutturali è stata utilizzata la seguente normativa:
Normativa italiana D.M. 17/01/2018

Classe d'Uso: 2

Vita Nominale: 50 anni

1.2 CARATTERISTICHE DEI MATERIALI

Di seguito vengono elencati i materiali usati nel modello:

Dati generali

ID	= numero identificativo del materiale
E	= modulo di Elasticità
ν	= coefficiente di Poisson
G	= modulo di Elasticità Tangenziale
Ps	= peso specifico
α	= coefficiente di Dilatazione Termica
f_{yk}	= tensione caratteristica di snervamento
f_u	= resistenza ultima a trazione
ϵ_{ud}	= deformazione ultima
$\gamma_{M,c}$	= coeff. parziale materiale per resistenza a SLU per compressione
$\gamma_{M,t}$	= coeff. parziale materiale per resistenza a SLU per trazione
γ_M	= coeff. parziale materiale per resistenza a SLU
$\gamma_{M,ecc}$	= coeff. parziale materiale per resistenza a SLU per situazioni eccezionali

Dati specifici per calcestruzzo

R_{ck}	= resistenza caratteristica cubica di compressione del calcestruzzo
f_{ck}	= resistenza caratteristica cilindrica di compressione del calcestruzzo
f_{ctk}	= resistenza caratteristica di trazione del calcestruzzo
f_{ctm}	= resistenza media di trazione del calcestruzzo
$f_{tc,eff}$	= resistenza media di trazione efficace del calcestruzzo al momento in cui si suppone l'insorgere delle prime fessure
γ_c	= coeff. parziale materiale per resistenza a SLU per compressione del calcestruzzo
α_{cc}	= coefficiente riduttivo per le resistenze a compressione di lunga durata
α_{ct}	= coefficiente riduttivo per le resistenze a trazione di lunga durata
GrpEsig	= gruppo di esigenza (livello di aggressività dell'ambiente) per le verifiche SLE; par.4.3.1.6 del DM 9/1/1996 (a = condizioni ambiente poco aggressivo, b = moderatamente aggressivo, c = molto aggressivo) oppure § 5.1.2.2.6.5 del DM 2005 o § 4.1.2.2.4.3 DM 2008 o § 4.1.2.2.4.2 DM 2018 (a = condizioni ambientali ordinarie, b = aggressive, c = molto aggressive). Per l'Eurocodice corrisponde alla classe di esposizione, prospetto 7.1N EN 1992-1-1:2005 (a = X0, XC1, b = XC2, XC3, XC4, c = XD1, XD2, XS1, XS2, XS3)

Dati specifici per acciaio da carpenteria

f_y	= tensione di snervamento acciaio per spessori minori o uguali a 40mm
f_{y1}	= tensione di snervamento acciaio per spessori maggiori di 40mm
$\gamma_{M0,c}$	= coeff. parziale materiale per resistenza a SLU per compressione per acciaio da carpenteria (per il DM 14/09/2005 corrisponde a γ_M)
$\gamma_{M0,t}$	= coeff. parziale materiale per resistenza a SLU per trazione per acciaio da carpenteria
γ_{M1}	= coeff. parziale materiale per resistenza a SLU per acciaio da carpenteria per verifiche di instabilità (per il DM 14/09/2005 corrisponde a γ_M)

Dati specifici per legno strutturale

Cl.Serv.	= classe di servizio per materiali di tipo "legno strutturale"
$k_{mod,perm}$	= coefficiente di modificazione delle resistenze del legno strutturale in presenza di azioni permanenti
$k_{mod,lung}$	= coefficiente di modificazione delle resistenze del legno strutturale in presenza di azioni di lunga durata
$k_{mod,med}$	= coefficiente di modificazione delle resistenze del legno strutturale in presenza di azioni di media durata
$k_{mod,brev}$	= coefficiente di modificazione delle resistenze del legno strutturale in presenza di azioni di breve durata
$k_{mod,ist}$	= coefficiente di modificazione delle resistenze del legno strutturale in presenza di azioni istantanee
k_{def}	= coefficiente per l'abbattimento delle caratteristiche di rigidità del legno strutturale per il calcolo delle deformazioni a lungo termine.
k_{cr}	= coefficiente di fessurazione per la resistenza a taglio.
$f_{m,k}$	= resistenza caratteristica del legno strutturale a flessione.
$f_{t,0,k}$	= resistenza caratteristica del legno strutturale a trazione parallela alla fibratura.

$f_{t,90,k}$	= resistenza caratteristica del legno strutturale a trazione perpendicolare alla fibratura.
$f_{c,0,k}$	= resistenza caratteristica del legno strutturale a compressione parallela alla fibratura.
$f_{c,90,k}$	= resistenza caratteristica del legno strutturale a compressione perpendicolare alla fibratura.
$f_{v,k}$	= resistenza caratteristica del legno strutturale a taglio in direzione perpendicolare alla fibratura (cioè quello che agisce in un piano perpendicolare alla fibratura stessa).
$f_{v,r,k}$	= resistenza caratteristica del legno strutturale a taglio di rotolamento (cioè quello che determina lo scorrimento delle fibre rispetto a quelle adiacenti agendo in un piano parallelo alla direzione di fibratura, con direzione perpendicolare alla fibratura).
$f_{v,b,k}$	= resistenza caratteristica del legno strutturale a taglio da spacco (cioè quello che determina lo scorrimento delle fibre rispetto a quelle adiacenti agendo in un piano parallelo alla direzione di fibratura, con direzione parallela alla fibratura stessa).
$E_{0,k}$	= modulo elastico caratteristico del legno strutturale in direzione parallela alla fibratura.
$E_{90,k}$	= modulo elastico caratteristico del legno strutturale in direzione perpendicolare alla fibratura.
ρ_k	= densità caratteristica del legno strutturale.

Dati specifici per pannelli di tavole di legno massiccio incrociato (XLam)

EA_2	= rigidezza membranale dei pannelli XLam in direzione 2
EA_3	= rigidezza membranale dei pannelli XLam in direzione 3
EJ_2	= rigidezza flessionale dei pannelli XLam in direzione 2
EJ_3	= rigidezza flessionale dei pannelli XLam in direzione 3
GA_{v12}	= rigidezza dei pannelli XLam a taglio fuori piano sulla faccia perpendicolare alla direzione 2 (cioè quella associata all'azione interna Q12 degli elementi Shell).
GA_{v13}	= rigidezza dei pannelli XLam a taglio fuori piano sulla faccia perpendicolare alla direzione 3 (cioè quella associata all'azione interna Q13 degli elementi Shell).
GA_{v23}	= rigidezza dei pannelli XLam a taglio membranale (cioè quella associata all'azione interna N23 degli elementi Shell).

Nome Materiale: S 235

ID = 28

Proprietà reologiche:

$$E = 2.1e+005 \text{ N/mm}^2$$

$$\nu = 0.300$$

$$G = 80769 \text{ N/mm}^2$$

$$P_s = 78.5 \text{ kN/m}^3$$

$$\alpha = 1.2e-005 \text{ 1/}^\circ\text{C}$$

Parametri di verifica:

Tipologia del Materiale: Acciaio da Carpenteria

$$f_y = 235 \text{ N/mm}^2$$

$$f_{y1} = 215 \text{ N/mm}^2$$

$$\gamma_{M0,c} = 1.05$$

$$\gamma_{M0,t} = 1.05$$

$$\gamma_{M1} = 1.05$$

$$\gamma_{M,ecc} = 1$$

$$f_u = 360 \text{ N/mm}^2$$

Valori di progetto

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$$f_{cd} = 223.81 \text{ N/mm}^2$$

$$f_{ctd} = 223.81 \text{ N/mm}^2$$

Nome Materiale: B450C

ID = 26

Proprietà reologiche:

$$E = 2e+005 \text{ N/mm}^2$$

$$\nu = 0.300$$

$$G = 76923 \text{ N/mm}^2$$

$$P_s = 78.5 \text{ kN/m}^3$$

$$\alpha = 1.2e-005 \text{ 1/}^\circ\text{C}$$

Parametri di verifica:

Tipologia del Materiale: Acciaio per Armature

$$f_{yk} = 450 \text{ N/mm}^2$$

$$\gamma_{M,c} = 1.15$$

$$\gamma_{M,t} = 1.15$$

$$\gamma_{M,ecc} = 1$$

$$f_u = 540 \text{ N/mm}^2$$

$$\epsilon_{ud} = 0.0675$$

Aderenza Migliorata = Si

Tipo Armatura = armatura poco sensibile

Valori di progetto

$$f_{cd} = 391.3 \text{ N/mm}^2$$

$$f_{ctd} = 391.3 \text{ N/mm}^2$$

1.3 DESCRIZIONE SEZIONI

1.3.1 CARATTERISTICHE STATICHE DELLE SEZIONI

Le caratteristiche statiche delle sezioni utilizzate nel modello sono riportate nella seguente tabella con il seguente significato dei simboli

Sez	= Nome della Sezione
A	= Area della Sezione
I_{22}^*	= Momento d'Inerzia rispetto all'asse locale baricentrico 2* parallelo all'asse locale 2 della sezione
I_{33}^*	= Momento d'Inerzia rispetto all'asse locale baricentrico 3* parallelo all'asse locale 3 della sezione
I_{23}^*	= Momento d'Inerzia centrifugo rispetto agli assi locali baricentrici 2* e 3* paralleli rispettivamente all'asse locale 2 e 3 della sezione
I_{44}	= Momento d'Inerzia Principale (Minimo) rispetto all'asse baricentrico 4
I_{55}	= Momento d'Inerzia Principale (Massimo) rispetto all'asse baricentrico 5
θ	= Angolo formato dagli assi principali d'inerzia rispetto agli assi locali 2 e 3 della sezione.
i_{22}^*	= Raggio d'Inerzia rispetto all'asse locale baricentrico 2*
i_{33}^*	= Raggio d'Inerzia rispetto all'asse locale baricentrico 3*
i_{44}	= Raggio d'Inerzia rispetto all'asse locale baricentrico 4
i_{55}	= Raggio d'Inerzia rispetto all'asse locale baricentrico 5
J_T	= Fattore di Rigidezza Torsionale
AT2	= Area Resistente a Taglio in direzione dell'asse locale 2 della sezione (se vale 0 non viene considerata la deformabilità a taglio)
AT3	= Area Resistente a Taglio in direzione dell'asse locale 3 della sezione (se vale 0 non viene considerata la deformabilità a taglio)

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qp = Peso proprio (forza per unità di lunghezza) della sezione
& = Indica che la quantità è stata forzata e non calcolata da CMP

I nomi delle sezioni che terminano con un “/N”, ove N è un numero, si riferiscono all’armatura N.

	A (cm ²)	I _{22*} (cm ⁴)	I _{33*} (cm ⁴)	I _{23*} (cm ⁴)	I ₄₄ (cm ⁴)	I ₅₅ (cm ⁴)	θ (°)	i _{22*} (cm)
	i _{33*} (cm)	i ₄₄ (cm)	i ₅₅ (cm)	JT (cm ⁴)	AT2 (cm ²)	AT3 (cm ²)	qp (kN/m)	
Nome Sezione: Pilastrì HEB 240 [HEB 240]								
	105.985868	11259.15743	3922.712507	0.00000000	3922.712507	11259.15743	90.00000000	10.30692142
	6.083720582	6.083720582	10.30692142	103.00000000	0.00000000	0.00000000	0.8319891	
Nome Sezione: Trave HEA 240 [HEA 240]								
	76.8358682	7763.036264	2768.859366	0.00000000	2768.859366	7763.036264	90.00000000	10.05156779
	6.003001440	6.003001440	10.05156779	41.59999847	0.00000000	0.00000000	0.6031616	
Nome Sezione: Travetti HEA160 [HEA 160]								
	38.7715654	1672.942053	615.5864748	0.00000000	615.5864748	1672.942053	90.00000000	6.568765848
	3.984628773	3.984628773	6.568765848	12.19999981	0.00000000	0.00000000	0.3043568	

1.3.2 GEOMETRIA SEZIONI

Di seguito vengono elencate le caratteristiche geometriche delle sezioni presenti nel modello.

Sezione: Pilastrì HEB 240 [HEB 240] - Sezione Base

Poligonale n°1

Caratteristiche poligonale: chiusa, strutturale, piena

Coefficiente di Omog.: 1

Materiale Poligonale: S 235

N° vertice	Coord.X (cm)	Coord.Y (cm)
1	-12	-12
2	12	-12
3	12	-10.3
4	2.6	-10.3
5	1.94435	-10.2179
6	1.35288	-9.91651
7	0.883486	-9.44712
8	0.582116	-8.85565
9	0.5	-8.2
10	0.5	8.2
11	0.582116	8.85565
12	0.883486	9.44712
13	1.35288	9.91651
14	1.94435	10.2179
15	2.6	10.3
16	12	10.3
17	12	12
18	-12	12
19	-12	10.3
20	-2.6	10.3
21	-1.94435	10.2179
22	-1.35288	9.91651
23	-0.883486	9.44712
24	-0.582116	8.85565
25	-0.5	8.2
26	-0.5	-8.2
27	-0.582116	-8.85565
28	-0.883486	-9.44712
29	-1.35288	-9.91651
30	-1.94435	-10.2179
31	-2.6	-10.3
32	-12	-10.3

Sezione: Trave HEA 240 [HEA 240] - Sezione Base

VALBONDIONE
TERRAZZA ESTERNA

FASCICOLO DEI CALCOLI

Poligonale n°1

Caratteristiche poligonale: chiusa, strutturale, piena

Coefficiente di Omog.: 1

Materiale Poligonale: S 235

N° vertice	Coord.X (cm)	Coord.Y (cm)
1	-12	-11.5
2	12	-11.5
3	12	-10.3
4	2.475	-10.3
5	1.81935	-10.2179
6	1.22788	-9.91651
7	0.758486	-9.44712
8	0.457116	-8.85565
9	0.375	-8.2
10	0.375	8.2
11	0.457116	8.85565
12	0.758486	9.44712
13	1.22788	9.91651
14	1.81935	10.2179
15	2.475	10.3
16	12	10.3
17	12	11.5
18	-12	11.5
19	-12	10.3
20	-2.475	10.3
21	-1.81935	10.2179
22	-1.22788	9.91651
23	-0.758486	9.44712
24	-0.457116	8.85565
25	-0.375	8.2
26	-0.375	-8.2
27	-0.457116	-8.85565
28	-0.758486	-9.44712
29	-1.22788	-9.91651
30	-1.81935	-10.2179
31	-2.475	-10.3
32	-12	-10.3

Sezione: Travetti HEA160 [HEA 160] - Sezione Base

Poligonale n°1

Caratteristiche poligonale: chiusa, strutturale, piena

Coefficiente di Omog.: 1

Materiale Poligonale: S 235

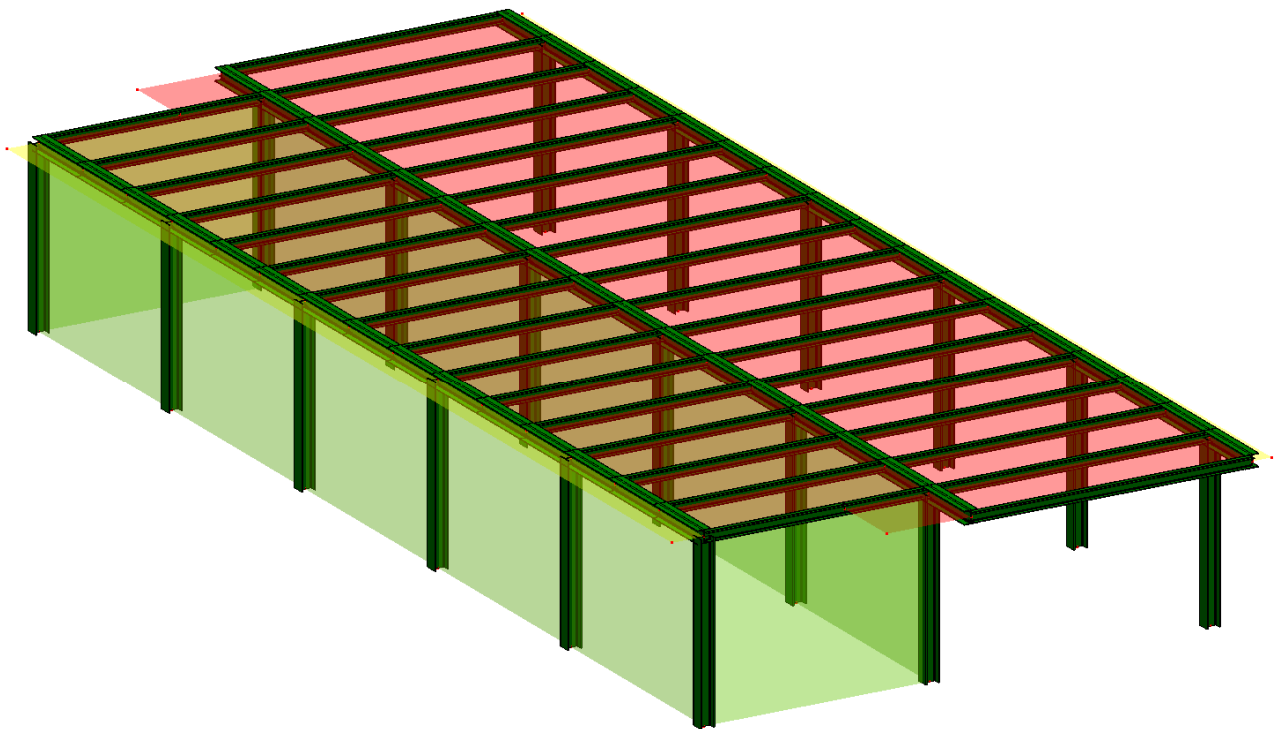
N° vertice	Coord.X (cm)	Coord.Y (cm)
1	-8	-7.6
2	8	-7.6
3	8	-6.7
4	1.8	-6.7
5	1.33168	-6.64135
6	0.909199	-6.42608
7	0.573918	-6.0908
8	0.358654	-5.66832
9	0.3	-5.2
10	0.3	5.2
11	0.358654	5.66832
12	0.573918	6.0908
13	0.909199	6.42608
14	1.33168	6.64135
15	1.8	6.7
16	8	6.7
17	8	7.6

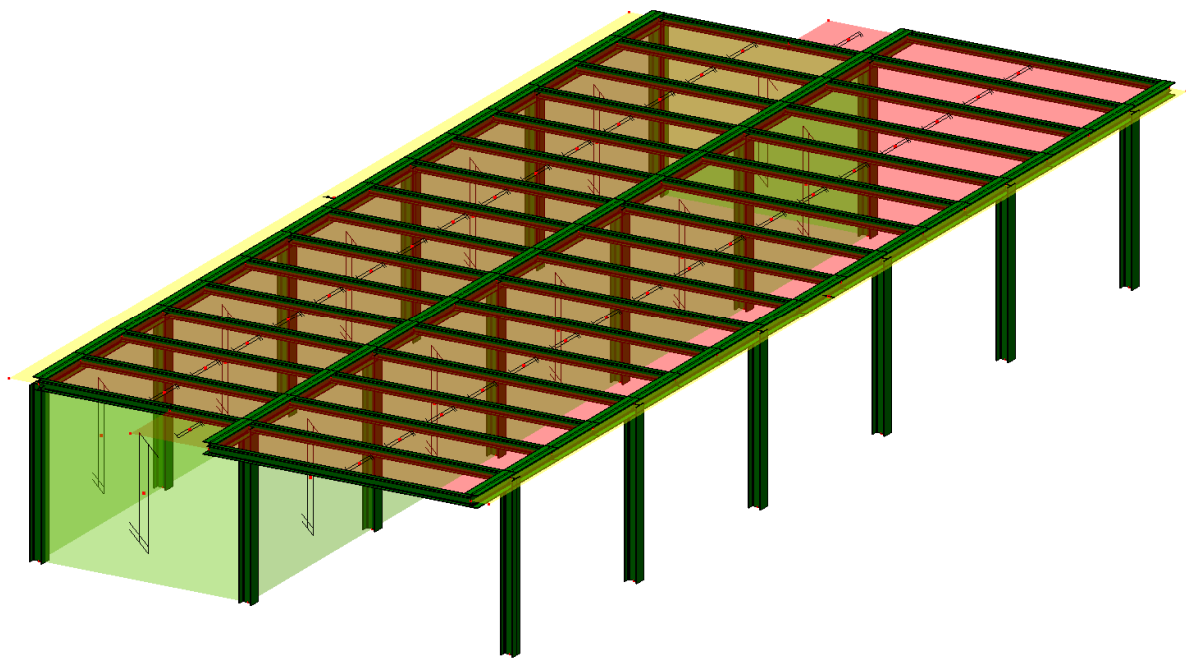
**VALBONDIONE
TERRAZZA ESTERNA**

FASCICOLO DEI CALCOLI

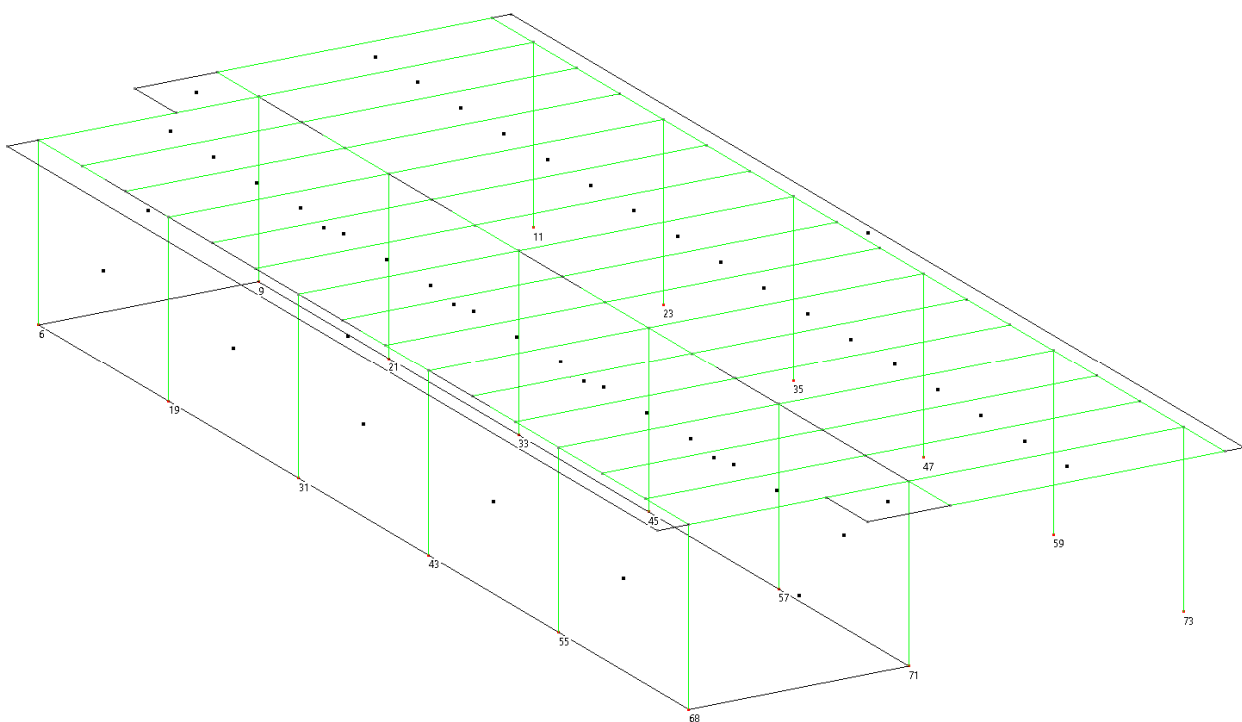
N° vertice	Coord.X (cm)	Coord.Y (cm)
18	-8	7.6
19	-8	6.7
20	-1.8	6.7
21	-1.33168	6.64135
22	-0.909199	6.42608
23	-0.573918	6.0908
24	-0.358654	5.66832
25	-0.3	5.2
26	-0.3	-5.2
27	-0.358654	-5.66832
28	-0.573918	-6.0908
29	-0.909199	-6.42608
30	-1.33168	-6.64135
31	-1.8	-6.7
32	-8	-6.7

1.4 RAPPRESENTAZIONE GRAFICA TELAIO





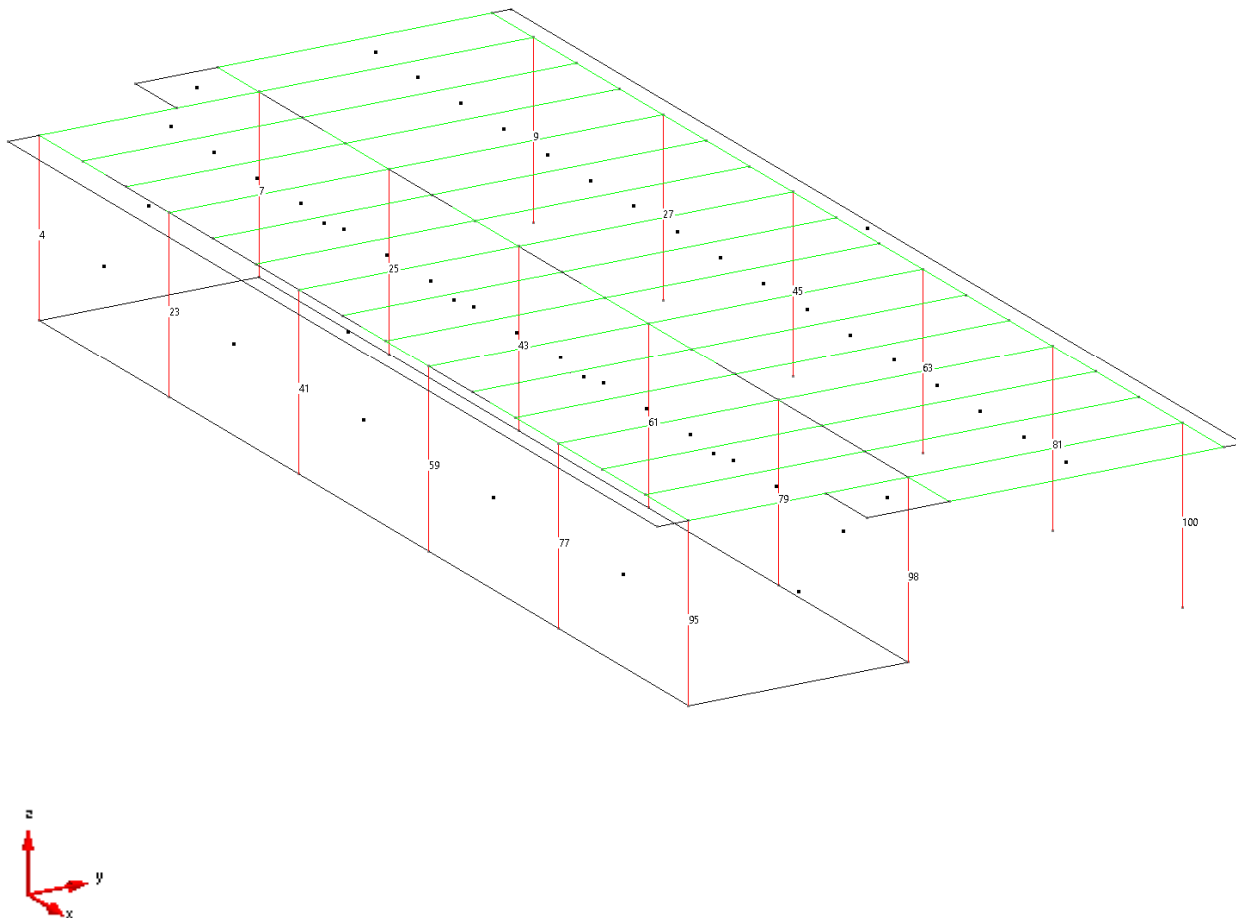
1.4.1 NUMERAZIONE NODI AL PIEDE



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1.4.2 NUMERAZIONE COLONNE



1.5 DESCRIZIONE DELLE CONDIZIONI DI CARICO ELEMENTARI STATICHE

Il peso proprio degli Elementi tipo Beam e tipo Shell viene calcolato automaticamente in base alle caratteristiche dei materiali, alla geometria degli elementi e ai seguenti parametri:

CdC	= Numero Condizione di Carico Elementare
mltX	= Moltiplicatore del peso proprio in direzione X Globale
mltY	= Moltiplicatore del peso proprio in direzione Y Globale
mltZ	= Moltiplicatore del peso proprio in direzione Z Globale
Tipo	= Tipo di Condizione di Carico (St = Statico, StEq = Sismico Statico Equivalente)
Ψ_0, Ψ_1, Ψ_2	= coefficienti di combinazione
Ψ_{2s}	= coefficiente di combinazione sismica
φ	= coefficiente per calcolo masse

Nome	CdC	mltX	mltY	mltZ	Tipo	Ψ_0	Ψ_1	Ψ_2	Ψ_{2s}	ϕ
CdC n. 1	1	0	0	-1	Permanente (St)	1	1	1	1	1
CdC n. 2	2	0	0	0	Permanente non strutt (St)	1	1	1	1	1
CdC n. 3	3	0	0	0	Uff.publ.Scuole, Negozi (St)	0.7	0.7	0.6	0.6	1
VENTO X	4	0	0	0	Vento (St)	0.6	0.2	0	0	0
VENTO Y	5	0	0	0	Vento (St)	0.6	0.2	0	0	0
VENTO Y-	6	0	0	0	Vento (St)	0.6	0.2	0	0	0

1.6 DESCRIZIONE DEGLI IMPALCATI

Gli Impalcati sono definiti nel modello al fine di gestire le operazioni legate al comportamento “di piano” (es. eccentricità accidentale delle masse in condizioni sismiche, ecc.) e “d’interpiano” (es, spostamenti orizzontali relativi, calcolo del fattore θ , deformabilità torsionale della struttura, ecc.). A tale scopo sono assegnati i parametri per il riconoscimento delle entità che fanno parte di un certo Impalcato e della posizione relativa dei vari Impalcati, al fine di riconoscere quali di essi devono essere correlati. È inoltre possibile indicare comportamenti “particolari” per ciascun Impalcato.

Gli Impalcati definiti nel modello ed i parametri ad essi relativi sono riportati nella tabella seguente, nella quale i simboli adottati hanno il significato descritto nel seguito:

Impalcato = nome che individua l’Impalcato in esame;

Verticali = elenco delle Verticali delle quali fa parte l’impalcato in esame; ogni Verticale è costituita da un insieme di Impalcati correlati verticalmente, ossia posti uno sopra l’altro;

Quota = quota di riferimento dell’Impalcato, utilizzata ad esempio per il calcolo dell’altezza d’interpiano;

Poligono = se presente, delimita l’ingombro in pianta dell’Impalcato; se è indicato un valore nullo l’Impalcato non ha limiti di estensione planimetrica; se è indicato un trattino “-” la definizione dell’Impalcato è legata ad un gruppo di selezione e non a criteri geometrici;

DZsup = se presente, indica la tolleranza altimetrica superiore, cioè al di sopra della quota di riferimento, che individua la quota massima delle entità facenti parte dell’Impalcato; se è indicato un trattino “-” la definizione dell’Impalcato è legata ad un gruppo di selezione e non a criteri geometrici;

DZinf = se presente, indica la tolleranza altimetrica inferiore, cioè al di sotto della quota di riferimento, che individua la quota minima delle entità facenti parte dell’Impalcato;

Selezione = se presente, individua il gruppo di selezione che definisce le entità facenti parte dell’Impalcato; se è indicato un trattino “-” la definizione dell’Impalcato è legata a criteri geometrici e non ad un gruppo di selezione;

Ecc. masse = se “si” per l’impalcato in questione viene generata automaticamente una distribuzione di masse tale da generare l’eccentricità definita nel capitolo “Analisi Sismica”;

Nodo Master = se presente determina l’assegnazione automatica di un vincolo di piano rigido a tutti i nodi facenti parte dell’Impalcato; se assente non esclude comunque che tale proprietà sia stata assegnata attraverso altre procedure;

Modalità θ = indica la modalità utilizzata per il calcolo del fattore θ ;

- Da norma: il calcolo è condotto secondo il § 7.3.1 del D.M. 17/01/2018 formula [7.3.3] (formula (7.3.2.) DM 14/01/2008);
- Pend: il calcolo è condotto tenendo conto del reale punto di applicazione dei carichi agli Impalcati superiori;

Orientamento θ = indica l'orientamento utilizzato per il calcolo del fattore θ :

- // Sisma: forze e spostamenti di piano sono determinati considerando direzioni orizzontali parallele a quelle di ingresso del sisma;
- Globale: forze e spostamenti di piano sono determinati considerando direzioni orizzontali parallele agli assi X ed Y del sistema di riferimento globale;
- Loc. 23: forze e spostamenti di piano sono determinati considerando direzioni orizzontali concordi con gli assi locali 2 e 3 di un elemento Beam, Truss specificato, ovvero con gli assi 1 (se orizzontale) o 2 di un elemento Shell
- Loc. 45: forze e spostamenti di piano sono determinati considerando direzioni orizzontali concordi con gli assi principali 4 e 5 di un elemento Beam, Truss specificato;

Elemento θ = se il riferimento usato per il calcolo del fattore θ è di tipo "locale", indica l'elemento dal quale ricavare le direzioni orizzontali di riferimento;

Nodo rif. = indica il nodo del modello che fornisce gli spostamenti da trasportare nell'origine per il calcolo del fattore θ ;

Origine per θ = indica la modalità con cui si individua il punto di origine dell'impalcato;

Coord. Orig. = indica la le coordinate (x,y) del punto suddetto, su cui si trasportano gli spostamenti di impalcato per il calcolo del fattore θ .

Impalcato	Verticali	Quota (cm)	Poligono	DZsup (cm)	DZinf (cm)	Selezione
Ecc. masse Origine per θ	Nodo Master Coord. Orig. (cm)	Modalità θ	Riferimento θ		Elemento θ	Nodo rif.
Impalcato n°1	Vert1	0	0	155	0	-
Si	-	Da norma	// Sisma		-	33
Centro massa Imp.(1025.0; 433.33)						
Impalcato n°2	Vert1	310	0	50	155	-
Si	69	Da norma	// Sisma		-	69
Centro massa Imp.(1025.0; 451.08)						

1.7 DESCRIZIONE NODI

1.7.1 NODI: GEOMETRIA, VINCOLI FISSI ESTERNI E NODI MASTER

La geometria e le altre caratteristiche dei nodi costituenti il modello sono riportate nella seguente tabella con il seguente significato dei simboli:

Nodo = Numero del Nodo

X,Y,Z = Coordinate dei nodi rispetto al sistema di Riferimento Globale

Vincoli = Vincolamento dei nodi rappresentato da sei cifre(0/1): queste sei cifre (0 = libero, 1 = vincolato) rappresentano il vincolamento dei seguenti gradi di libertà, nell'ordine:

spostamento in direzione x, y, z, rotazione attorno all'asse x, y, z

n.Master = Nodo Master

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Piano = Piano in cui si impone il comportamento Master-Slave
 Fase = fase di appartenenza

Nodo	X (cm)	Y (cm)	Z (cm)	Vincoli	n.Master	Piano	Fase
1	-130.00	250.000	310.000		69	Piano XY	
2	-130.00	400.000	310.000		69	Piano XY	
3	-130.00	900.000	310.000		69	Piano XY	
4	-130.00	935.000	310.000		69	Piano XY	
5	0.0000	-57.000	310.000		69	Piano XY	
6	0.0000	0.0000	0.0000	1 1 1 1 1 1			
7	0.0000	0.0000	310.000		69	Piano XY	
8	0.0000	250.000	310.000		69	Piano XY	
9	0.0000	400.000	0.0000	1 1 1 1 1 1			
10	0.0000	400.000	310.000		69	Piano XY	
11	0.0000	900.000	0.0000	1 1 1 1 1 1			
12	0.0000	900.000	310.000		69	Piano XY	
13	136.667	0.0000	310.000		69	Piano XY	
14	136.667	400.000	310.000		69	Piano XY	
15	136.667	900.000	310.000		69	Piano XY	
16	273.333	0.0000	310.000		69	Piano XY	
17	273.333	400.000	310.000		69	Piano XY	
18	273.333	900.000	310.000		69	Piano XY	
19	410.000	0.0000	0.0000	1 1 1 1 1 1			
20	410.000	0.0000	310.000		69	Piano XY	
21	410.000	400.000	0.0000	1 1 1 1 1 1			
22	410.000	400.000	310.000		69	Piano XY	
23	410.000	900.000	0.0000	1 1 1 1 1 1			
24	410.000	900.000	310.000		69	Piano XY	
25	546.667	0.0000	310.000		69	Piano XY	
26	546.667	400.000	310.000		69	Piano XY	
27	546.667	900.000	310.000		69	Piano XY	
28	683.333	0.0000	310.000		69	Piano XY	
29	683.333	400.000	310.000		69	Piano XY	
30	683.333	900.000	310.000		69	Piano XY	
31	820.000	0.0000	0.0000	1 1 1 1 1 1			
32	820.000	0.0000	310.000		69	Piano XY	
33	820.000	400.000	0.0000	1 1 1 1 1 1			
34	820.000	400.000	310.000		69	Piano XY	
35	820.000	900.000	0.0000	1 1 1 1 1 1			
36	820.000	900.000	310.000		69	Piano XY	
37	956.667	0.0000	310.000		69	Piano XY	
38	956.667	400.000	310.000		69	Piano XY	

1.8 DESCRIZIONE BEAM

1.8.1 CONFIGURAZIONE ELEMENTI TIPO BEAM

Al fine di consentire una più chiara interpretazione dei risultati di output dell'analisi, e quindi una maggiore possibilità di controllo dei medesimi, la modellazione è stata sviluppata in modo da assegnare a tutte le membrature sistemi di riferimento locale (in base al quale sono da leggere i risultati in termini di sollecitazioni) disposti secondo orientamenti logici. In particolare si è posta cura nel far sì che per default:

- tutte le aste aventi orientamento globale prevalente secondo l'asse globale X o Y [TRAVI su X o su Y] siano caratterizzate da asse locale 1 diretto secondo l'asse geometrico del Beam e asse locale 3 in direzione dell'asse globale Z (piano di flessione verticale = piano 1-3)
- tutte le aste aventi orientamento globale prevalente secondo l'asse globale Z [PILASTRI] siano caratterizzate da asse locale 1 diretto secondo l'asse globale Z positivo e asse locale 3 in direzione dell'asse globale y positivo.

L'orientamento di default di cui sopra è associato automaticamente per valori di n_1 , n_2 e Ang di cui sotto pari a 0.

Per modificare l'impostazione di default occorre specificare un valore diverso da zero per n1 e n2 e/o Ang.

In particolare, in base ai valori di $n1$ e $n2$, l'asse locale 2, (con $Ang = 0$) è così definito:

- $n1 = \text{"Asse +X"} \text{ e } n2 = 0$:** l'asse ha la direzione dell'asse globale X
- $n1 = \text{"Asse +Y"} \text{ e } n2 = 0$:** l'asse ha la direzione dell'asse globale Y
- $n1 = \text{"Asse +Z"} \text{ e } n2 = 0$:** l'asse ha la direzione dell'asse globale Z
- $n1 = \text{"Asse -X"} \text{ e } n2 = 0$:** l'asse ha la direzione dell'asse globale -X
- $n1 = \text{"Asse -Y"} \text{ e } n2 = 0$:** l'asse ha la direzione dell'asse globale -Y
- $n1 = \text{"Asse -Z"} \text{ e } n2 = 0$:** l'asse ha la direzione dell'asse globale -Z
- $n1 = \text{"Str7 Y"} \text{ e } n2 = 0$:** gli assi sono definiti utilizzando la convenzione di default di Straus7 considerando l'asse Y di Straus7 coincidente con l'asse Z di CMP: se l'asse 1 (del Beam in CMP) ha direzione coincidente con l'asse globale X (di CMP) la direzione di 3 è sempre quella positiva dell'asse Z. In tutti gli altri casi la direzione dell'asse 3 ha è ottenuto dal prodotto vettoriale fra l'asse globale X e il vettore definito dai nodi di inizio e fine Beam.
- $n1 = \text{"Str7 X"} \text{ e } n2 = 0$:** gli assi sono definiti utilizzando la convenzione di default di Straus7 considerando l'asse X di Straus7 coincidente con l'asse Z di CMP: se l'asse 1 (del Beam in CMP) ha direzione coincidente con l'asse globale Y (di CMP) la direzione di 3 è sempre quella positiva dell'asse X. In tutti gli altri casi la direzione dell'asse 3 ha è ottenuto dal prodotto vettoriale fra l'asse globale Y e il vettore definito dai nodi di inizio e fine Beam.
- $n1 = \text{"Str7 Z"} \text{ e } n2 = 0$:** gli assi sono definiti utilizzando la convenzione di default di Straus7 considerando l'asse Z di Straus7 coincidente con l'asse Z di CMP: se l'asse 1 (del Beam in CMP) ha direzione coincidente con l'asse globale Z (di CMP) la direzione di 3 è sempre quella positiva dell'asse Y. In tutti gli altri casi la direzione dell'asse 3 ha è ottenuto dal prodotto vettoriale fra l'asse globale Z e il vettore definito dai nodi di inizio e fine Beam.
- $n1 = 0 \text{ e } n2 \neq 0$:** in tal caso il valore assegnato a $n2$ è il numero di un nodo del modello. L'asse locale 3 è ottenuto dal prodotto vettoriale tra l'asse dell'asta e l'asse NI- $n2$ (NI = primo nodo di definizione Beam)
- $n1 \neq 0 \text{ e } n2 \neq 0$:** l'asse ha la direzione della congiungente $n1$ e $n2$

Se $Ang \neq 0$ allora $n1$ e $n2$ definiscono l'asse di riferimento rispetto al quale l'asse 2 forma un angolo Ang .

La geometria e le altre caratteristiche degli elementi Beam costituenti il modello sono riportate nella seguente tabella con il seguente significato dei simboli:

Beam	= Numero dell'Elemento Beam
N1	= Numero Nodo Iniziale dell'Elemento Beam
N2	= Numero Nodo Finale dell'Elemento Beam
Sez.	= Nome Sezione associata all'Elemento
$n1$	= primo nodo di individuazione asse locale di riferimento
$n2$	= secondo nodo di individuazione asse locale di riferimento
Ang.	= angolo asse locale 2 rispetto asse locale di riferimento, positivo se antiorario (rotazione attorno all'asse locale 1 sul piano definito dall'asse di riferimento e l'asse locale 3)

Fasi di inesistenza = elenca le fasi in cui il Beam è dichiarato come non esistente

Beam	N1	N2	Direzione asse 2 (n1 n2)	Ang (°)
1	2	3	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
2	2	10	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
3	3	12	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
4	6	7	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
5	7	8	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
6	8	10	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
7	9	10	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
8	10	12	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
9	11	12	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
10	7	13	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
11	10	14	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
12	12	15	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
13	13	14	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
14	14	15	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
15	13	16	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
16	14	17	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
17	15	18	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
18	16	17	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
19	17	18	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
20	16	20	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
21	17	22	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
22	18	24	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
23	19	20	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
24	20	22	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
25	21	22	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
26	22	24	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
27	23	24	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
28	20	25	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
29	22	26	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
30	24	27	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
31	25	26	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
32	26	27	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
33	25	28	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
34	26	29	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
35	27	30	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
36	28	29	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
37	29	30	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
38	28	32	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
39	29	34	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
40	30	36	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
41	31	32	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
42	32	34	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
43	33	34	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
44	34	36	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
45	35	36	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
46	32	37	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
47	34	38	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
48	36	39	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
49	37	38	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
50	38	39	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
51	37	40	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
52	38	41	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
53	39	42	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
54	40	41	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
55	41	42	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
56	40	44	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
57	41	46	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
58	42	48	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
59	43	44	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
60	44	46	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
61	45	46	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
62	46	48	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
63	47	48	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
64	44	49	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
65	46	50	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
66	48	51	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
67	49	50	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]

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68	50	51	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
69	49	52	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
70	50	53	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
71	51	54	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
72	52	53	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
73	53	54	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
74	52	56	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
75	53	58	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
76	54	60	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
77	55	56	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
78	56	58	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
79	57	58	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
80	58	60	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
81	59	60	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
82	56	61	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
83	58	62	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
84	60	63	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
85	61	62	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
86	62	63	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
87	61	64	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
88	62	65	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
89	63	66	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
90	64	65	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
91	65	66	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
92	64	69	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
93	65	72	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
94	66	74	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
95	68	69	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
96	69	70	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
97	70	72	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
98	71	72	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
99	72	74	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]
100	73	74	Asse +X 0	0 Sez.: Pilastri HEB 240 [HEB 240]
101	72	76	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
102	74	77	Asse +Y 0	0 Sez.: Trave HEA 240 [HEA 240]
103	76	77	Asse -X 0	0 Sez.: Travetti HEA160 [HEA 160]

1.8.2 SVINCOLAMENTO INTERNO ELEMENTI TIPO BEAM

Beam = Numero dell'Elemento Beam
 N = codice Svincolamento Sforzo Normale
 T2 = codice Svincolamento Taglio Asse 2
 T3 = codice Svincolamento Taglio Asse 3
 MT = codice Svincolamento Rotazione attorno all'Asse 1
 M13 = codice Svincolamento Rotazione attorno all'Asse 2
 M12 = codice Svincolamento Rotazione attorno all'Asse 3
 Fase = Fase di appartenenza

Beam	Nodo Iniziale	Nodo finale	Fase
1	M13 M12	M13 M12	
4		M13 M12	
5	M13 M12		
6		M13 M12	
7		M13 M12	
8	M13 M12	M13 M12	
9		M13 M12	
13	M13 M12	M13 M12	
14	M13 M12	M13 M12	
18	M13 M12	M13 M12	
19	M13 M12	M13 M12	
20		M13 M12	
21		M13 M12	
22		M13 M12	
24	M13 M12	M13 M12	

26	M13 M12	M13 M12
28	M13 M12	
29	M13 M12	
30	M13 M12	
31	M13 M12	M13 M12
32	M13 M12	M13 M12
36	M13 M12	M13 M12
37	M13 M12	M13 M12
38		M13 M12
39		M13 M12
40		M13 M12
42	M13 M12	M13 M12
44	M13 M12	M13 M12
46	M13 M12	
47	M13 M12	
48	M13 M12	
49	M13 M12	M13 M12
50	M13 M12	M13 M12

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54	M13 M12	M13 M12	78	M13 M12	M13 M12
55	M13 M12	M13 M12	80	M13 M12	M13 M12
56		M13 M12	82	M13 M12	
57		M13 M12	83	M13 M12	
58		M13 M12	84	M13 M12	
60	M13 M12	M13 M12	85	M13 M12	M13 M12
62	M13 M12	M13 M12	86	M13 M12	M13 M12
64	M13 M12		90	M13 M12	M13 M12
65	M13 M12		91	M13 M12	M13 M12
66	M13 M12		95		M13 M12
67	M13 M12	M13 M12	96	M13 M12	
68	M13 M12	M13 M12	97		M13 M12
72	M13 M12	M13 M12	98		M13 M12
73	M13 M12	M13 M12	99	M13 M12	M13 M12
74		M13 M12	100		M13 M12
75		M13 M12	103	M13 M12	M13 M12
76		M13 M12			

1.9 DESCRIZIONE SOLAI - TAMPONAMENTI

1.9.1 CONFIGURAZIONE ELEMENTI SOLAIO - TAMPONAMENTO

Gli Elementi Solaio/Tamponamento sono elementi ausiliari, cioè che non appartengono al modello matematico agli elementi finiti, ma che servono per calcolare automaticamente i carichi da solaio agenti sugli elementi di calcolo (nodi e aste). La geometria e le altre caratteristiche degli elementi Solaio/Tamponamento costituenti il modello sono riportate nella seguente tabella con il seguente significato dei simboli:

- Solai = Numero dell'Elemento Solaio/Tamponamento
Elenco Nodi = Elenco dei nodi che individuano il contorno dei solaio
Orientamento = Indica la modalità utilizzata per individuare l'orientamento/orditura
PP = Peso Proprio Solaio/Tamponamento per unità di superficie
SP = Sovraccarico Permanente per unità di superficie
SV = Sovraccarico Variabile per unità di superficie
MolI = multip. del carico trasmesso alla trave iniziale per le forze verticali
MolF = multip. del carico trasmesso alla trave finale per le forze verticali
MolIO = multip. del carico trasmesso alla trave iniziale per le forze orizz.
MolFO = multip. del carico trasmesso alla trave finale per le forze orizzontali
EccI = eccentricità orizzontale di applicazione del carico verticale trasmesso alla trave iniziale
EccF = eccentricità orizzontale di applicazione del carico verticale trasmesso alla trave finale
Fasi di inesistenza = elenco delle Fasi in cui l'elemento è dichiarato come non esistente
Unità di misura Carichi = kN/m²; Unità di misura Lunghezze = cm

Solaio: Elenco nodi di definizione solaio								Orientamento	
PP	SP	SV	MolIV	MolFV	MolIO	MolFO	EccI	EccF	
Solaio n°1: 2, 3, 12, 10							Dir+X		Solaio n°9: 5, 7, 13, 16, 20, 25, 28, 32, 37, 40, 44, 49, 52, 56, 61, 64, 69, 67
Solaio n°1: 2, 3, 12, 10							Dir+X		Dir+Y
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.				Solaio n°9: 5, 7, 13, 16, 20, 25, 28, 32, 37, 40, 44, 49, 52, 56, 61, 64, 69, 67
Solaio n°2: 1, 2, 10, 8							Dir+X		Dir+Y
Solaio n°2: 1, 2, 10, 8							Dir+X		3.7500003.5000004.0000000. 2.000 0. 2.000 0. 0.
2.4000003.5000004.0000000.	2.000	0.	2.000	0.	0.				Solaio n°10: 3, 4, 78, 77, 74, 66, 63, 60, 54, 51, 48, 42, 39, 36, 30, 27, 24, 18, 15, 12
Solaio n°4: 72, 74, 77, 76							Dir+X		Dir+Y
Solaio n°4: 72, 74, 77, 76							Dir+X		Solaio n°10: 3, 4, 78, 77, 74, 66, 63, 60, 54, 51, 48, 42, 39, 36, 30, 27, 24, 18, 15, 12
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.				3.7500003.5000004.0000002.000 0. 2.000 0. 0.
Solaio n°5: 70, 72, 76, 75							Dir+X		Solaio n°11: 7, 8, 10, 14, 13
Solaio n°5: 70, 72, 76, 75							Dir+X		Dir+X
2.4000003.5000004.0000002.000	0.	2.000	0.	0.	0.				Solaio n°11: 7, 8, 10, 14, 13
									2.4000003.5000004.0000001.000 1.000 1.000 1.000 0. 0.
									Solaio n°12: 13, 14, 17, 16
									Dir+X
									Solaio n°12: 13, 14, 17, 16
									Dir+X

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2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°33: 38, 39, 42, 41	Dir+X
Solaio n°13: 16, 17, 22, 20				Dir+X		Solaio n°33: 38, 39, 42, 41	Dir+X
Solaio n°13: 16, 17, 22, 20				Dir+X		2.4000003.5000004.0000001.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°34: 41, 42, 48, 46	Dir+X
Solaio n°14: 20, 22, 26, 25				Dir+X		Solaio n°34: 41, 42, 48, 46	Dir+X
Solaio n°14: 20, 22, 26, 25				Dir+X		2.4000003.5000004.0000001.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°35: 46, 48, 51, 50	Dir+X
Solaio n°15: 25, 26, 29, 28				Dir+X		Solaio n°35: 46, 48, 51, 50	Dir+X
Solaio n°15: 25, 26, 29, 28				Dir+X		2.4000003.5000004.0000001.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°36: 50, 51, 54, 53	Dir+X
Solaio n°16: 28, 29, 34, 32				Dir+X		Solaio n°36: 50, 51, 54, 53	Dir+X
Solaio n°16: 28, 29, 34, 32				Dir+X		2.4000003.5000004.0000001.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°37: 53, 54, 60, 58	Dir+X
Solaio n°17: 32, 34, 38, 37				Dir+X		Solaio n°37: 53, 54, 60, 58	Dir+X
Solaio n°17: 32, 34, 38, 37				Dir+X		2.4000003.5000004.0000001.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°38: 58, 60, 63, 62	Dir+X
Solaio n°18: 37, 38, 41, 40				Dir+X		Solaio n°38: 58, 60, 63, 62	Dir+X
Solaio n°18: 37, 38, 41, 40				Dir+X		2.4000003.5000004.0000001.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°39: 62, 63, 66, 65	Dir+X
Solaio n°19: 40, 41, 46, 44				Dir+X		Solaio n°39: 62, 63, 66, 65	Dir+X
Solaio n°19: 40, 41, 46, 44				Dir+X		2.4000003.5000004.0000001.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°40: 65, 66, 74, 72	Dir+X
Solaio n°20: 44, 46, 50, 49				Dir+X		Solaio n°40: 65, 66, 74, 72	Dir+X
Solaio n°20: 44, 46, 50, 49				Dir+X		2.4000003.5000004.0000001.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°41: 10, 9, 6, 7	Dir+Z
Solaio n°21: 49, 50, 53, 52				Dir+X		Solaio n°41: 10, 9, 6, 7	Dir+Z
Solaio n°21: 49, 50, 53, 52				Dir+X		0. 0. 0. 1.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°42: 6, 19, 20, 7	Dir+Z
Solaio n°22: 52, 53, 58, 56				Dir+X		Solaio n°42: 6, 19, 20, 7	Dir+Z
Solaio n°22: 52, 53, 58, 56				Dir+X		0. 0. 0. 1.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°43: 19, 31, 32, 20	Dir+Z
Solaio n°23: 56, 58, 62, 61				Dir+X		Solaio n°43: 19, 31, 32, 20	Dir+Z
Solaio n°23: 56, 58, 62, 61				Dir+X		0. 0. 0. 1.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°44: 31, 43, 44, 32	Dir+Z
Solaio n°24: 61, 62, 65, 64				Dir+X		Solaio n°44: 31, 43, 44, 32	Dir+Z
Solaio n°24: 61, 62, 65, 64				Dir+X		0. 0. 0. 1.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°45: 43, 55, 56, 44	Dir+Z
Solaio n°25: 64, 65, 72, 70, 69				Dir+X		Solaio n°45: 43, 55, 56, 44	Dir+Z
Solaio n°25: 64, 65, 72, 70, 69				Dir+X		0. 0. 0. 1.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°46: 55, 68, 69, 56	Dir+Z
Solaio n°26: 10, 12, 15, 14				Dir+X		Solaio n°46: 55, 68, 69, 56	Dir+Z
Solaio n°26: 10, 12, 15, 14				Dir+X		0. 0. 0. 1.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°47: 69, 72, 71, 68	Dir+Z
Solaio n°27: 14, 15, 18, 17				Dir+X		Solaio n°47: 69, 72, 71, 68	Dir+Z
Solaio n°27: 14, 15, 18, 17				Dir+X		0. 0. 0. 1.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°48: 57, 71, 72, 58	Dir+Z
Solaio n°28: 17, 18, 24, 22				Dir+X		Solaio n°48: 57, 71, 72, 58	Dir+Z
Solaio n°28: 17, 18, 24, 22				Dir+X		0. 0. 0. 1.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°49: 45, 57, 58, 46	Dir+Z
Solaio n°29: 22, 24, 27, 26				Dir+X		Solaio n°49: 45, 57, 58, 46	Dir+Z
Solaio n°29: 22, 24, 27, 26				Dir+X		0. 0. 0. 1.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°50: 33, 45, 46, 34	Dir+Z
Solaio n°30: 26, 27, 30, 29				Dir+X		Solaio n°50: 33, 45, 46, 34	Dir+Z
Solaio n°30: 26, 27, 30, 29				Dir+X		0. 0. 0. 1.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°51: 21, 33, 34, 22	Dir+Z
Solaio n°31: 29, 30, 36, 34				Dir+X		Solaio n°51: 21, 33, 34, 22	Dir+Z
Solaio n°31: 29, 30, 36, 34				Dir+X		0. 0. 0. 1.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.	Solaio n°52: 9, 21, 22, 10	Dir+Z
Solaio n°32: 34, 36, 39, 38				Dir+X		Solaio n°52: 9, 21, 22, 10	Dir+Z
Solaio n°32: 34, 36, 39, 38				Dir+X		0. 0. 0. 1.000	1.000 1.000 1.000 0.
2.4000003.5000004.0000001.000	1.000	1.000	1.000	0.	0.		

1.9.2 PARAMETRI PER APPLICAZIONE AZIONE VENTO SUGLI ELEMENTI SOLAIO/TAMPONAMENTO

Solaio = Numero dell'Elemento Solaio

MolI = multip. del carico trasmesso dal solaio ai lati Iniziali

MolF = multip. del carico trasmesso dal solaio ai lati Finali

CdC = Condizione di carico assegnata nella quale agiranno le azioni del vento derivanti dalla applicazione dei coeff. Cp e Cf indicati a seguito

Cp = Coeff.di forma secondo DM 17/01/2018[3.3.4] per le azioni del vento normali

Cf = Coeff.d'attrito secondo DM 17/01/2018[3.3.5] per le azioni del vento radenti

[illegible]

1.10 RISULTANTE DEI CARICHI APPLICATI

Vengono di seguito indicate le risultanti dei carichi applicati nelle CdC elementari statiche:

CdC = Condizione di Carico Elementare

Descrizione = Descrizione tipologia CdC

Fx, Fy, Fz = forza risultante dai carichi applicati e dai pesi propri della CdC

Mx, My, Mz = momento calcolato rispetto all'origine e risultante dai carichi applicati e dai pesi propri della CdC

Fase = viene indicato (se presente) la fase a cui la CdC appartiene

CdC	Descrizione	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)	Fase
1	CdC n. 1	0.	0.	-691.02433	-3097.9996	7082.99948	0.	
2	CdC n. 2	0.	0.	-774.09502	-3500.6651	7934.47399	0.	
3	CdC n. 3	0.	0.	-884.68004	-4000.7602	9067.97043	0.	
4	VENTO X	7.42206733	0.	0.	0.	23.0084087	-21.723146	
5	VENTO Y	1.6365e-16	27.0134604	0.	-83.741727	5.0732e-16	276.887969	
6	VENTO Y-	-1.637e-16	-21.668183	0.	67.1713671	-5.073e-16	-222.09888	

1.11 CARICHI BEAM

1.11.1 BEAM CARICHI DISTRIBUITI IN DIREZIONE GLOBALE DA SOLAIO/TAMPONAMENTO

I carichi vengono descritti da una o più successioni di punti notevoli, tra i quali viene effettuata una interpolazione lineare.

Beam = Numero dell'Elemento Beam

CdC = Condizione di Carico Elementare a cui appartiene il Carico

Dist = distanza dal primo nodo Beam del punto di definizione carico

Tipo = Può assumere i seguenti valori:

- Inizio indica l'inizio della serie di punti

- Fine indica la fine della serie di punti

Per punti intermedi non viene data nessuna indicazione

qX = valore del carico distribuito in direzione globale X

qY = valore del carico distribuito in direzione globale Y

qZ = valore del carico distribuito in direzione globale Z

Beam	Tipo	Dist (m)	qX (kN/m)	qY (kN/m)	qZ (kN/m)
1	CdC n° 1				
	Inizio	0	0.	0.	-1.56000
	Fine	5	0.	0.	-1.56000
3	CdC n° 1				
	Inizio	0	0.	0.	-1.31250
	Fine	1.3	0.	0.	-1.31250
5	CdC n° 1				
	Inizio	0	0.	0.	-1.64000
	Fine	2.5	0.	0.	-1.64000
6	CdC n° 1				
	Inizio	0	0.	0.	-4.76000
	Fine	1.5	0.	0.	-4.76000

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15	Fine	5	0.	0.	-3.28000	54	CdC n° 1				
	Inizio	0	0.	0.	-2.13750		Inizio	0	0.	0.	-3.28000
	Fine	1.37	0.	0.	-2.13750		Fine	4	0.	0.	-3.28000
17	CdC n° 1					55	CdC n° 1				
	Inizio	0	0.	0.	-1.31250		Inizio	0	0.	0.	-3.28000
	Fine	1.37	0.	0.	-1.31250		Fine	5	0.	0.	-3.28000
18	CdC n° 1					56	CdC n° 1				
	Inizio	0	0.	0.	-3.28000		Inizio	0	0.	0.	-2.13750
	Fine	4	0.	0.	-3.28000		Fine	1.37	0.	0.	-2.13750
19	CdC n° 1					58	CdC n° 1				
	Inizio	0	0.	0.	-3.28000		Inizio	0	0.	0.	-1.31250
	Fine	5	0.	0.	-3.28000		Fine	1.37	0.	0.	-1.31250
20	CdC n° 1					60	CdC n° 1				
	Inizio	0	0.	0.	-2.13750		Inizio	0	0.	0.	-3.28000
	Fine	1.37	0.	0.	-2.13750		Fine	4	0.	0.	-3.28000
22	CdC n° 1					62	CdC n° 1				
	Inizio	0	0.	0.	-1.31250		Inizio	0	0.	0.	-3.28000
	Fine	1.37	0.	0.	-1.31250		Fine	5	0.	0.	-3.28000
24	CdC n° 1					64	CdC n° 1				
	Inizio	0	0.	0.	-3.28000		Inizio	0	0.	0.	-2.13750
	Fine	4	0.	0.	-3.28000		Fine	1.37	0.	0.	-2.13750
26	CdC n° 1					66	CdC n° 1				
	Inizio	0	0.	0.	-3.28000		Inizio	0	0.	0.	-1.31250
	Fine	5	0.	0.	-3.28000		Fine	1.37	0.	0.	-1.31250
28	CdC n° 1					67	CdC n° 1				
	Inizio	0	0.	0.	-2.13750		Inizio	0	0.	0.	-3.28000
	Fine	1.37	0.	0.	-2.13750		Fine	4	0.	0.	-3.28000
30	CdC n° 1					68	CdC n° 1				
	Inizio	0	0.	0.	-1.31250		Inizio	0	0.	0.	-3.28000
	Fine	1.37	0.	0.	-1.31250		Fine	5	0.	0.	-3.28000
31	CdC n° 1					69	CdC n° 1				
	Inizio	0	0.	0.	-3.28000		Inizio	0	0.	0.	-2.13750
	Fine	4	0.	0.	-3.28000		Fine	1.37	0.	0.	-2.13750
32	CdC n° 1					71	CdC n° 1				
	Inizio	0	0.	0.	-3.28000		Inizio	0	0.	0.	-1.31250
	Fine	5	0.	0.	-3.28000		Fine	1.37	0.	0.	-1.31250
33	CdC n° 1					72	CdC n° 1				
	Inizio	0	0.	0.	-2.13750		Inizio	0	0.	0.	-3.28000
	Fine	1.37	0.	0.	-2.13750		Fine	4	0.	0.	-3.28000
35	CdC n° 1					73	CdC n° 1				
	Inizio	0	0.	0.	-1.31250		Inizio	0	0.	0.	-3.28000
	Fine	1.37	0.	0.	-1.31250		Fine	5	0.	0.	-3.28000
36	CdC n° 1					74	CdC n° 1				
	Inizio	0	0.	0.	-3.28000		Inizio	0	0.	0.	-2.13750
	Fine	4	0.	0.	-3.28000		Fine	1.37	0.	0.	-2.13750
37	CdC n° 1					76	CdC n° 1				
	Inizio	0	0.	0.	-3.28000		Inizio	0	0.	0.	-1.31250
	Fine	5	0.	0.	-3.28000		Fine	1.37	0.	0.	-1.31250
38	CdC n° 1					78	CdC n° 1				
	Inizio	0	0.	0.	-2.13750		Inizio	0	0.	0.	-3.28000
	Fine	1.37	0.	0.	-2.13750		Fine	4	0.	0.	-3.28000
40	CdC n° 1					80	CdC n° 1				
	Inizio	0	0.	0.	-1.31250		Inizio	0	0.	0.	-3.28000
	Fine	1.37	0.	0.	-1.31250		Fine	5	0.	0.	-3.28000
42	CdC n° 1					82	CdC n° 1				
	Inizio	0	0.	0.	-3.28000		Inizio	0	0.	0.	-2.13750
	Fine	4	0.	0.	-3.28000		Fine	1.37	0.	0.	-2.13750
44	CdC n° 1					84	CdC n° 1				
	Inizio	0	0.	0.	-3.28000		Inizio	0	0.	0.	-1.31250
	Fine	5	0.	0.	-3.28000		Fine	1.37	0.	0.	-1.31250
46	CdC n° 1					85	CdC n° 1				
	Inizio	0	0.	0.	-2.13750		Inizio	0	0.	0.	-3.28001
	Fine	1.37	0.	0.	-2.13750		Fine	4	0.	0.	-3.28001
48	CdC n° 1					86	CdC n° 1				
	Inizio	0	0.	0.	-1.31250		Inizio	0	0.	0.	-3.28001
	Fine	1.37	0.	0.	-1.31250		Fine	5	0.	0.	-3.28001
49	CdC n° 1					87	CdC n° 1				
	Inizio	0	0.	0.	-3.28000		Inizio	0	0.	0.	-2.13750
	Fine	4	0.	0.	-3.28000		Fine	1.37	0.	0.	-2.13750
50	CdC n° 1					89	CdC n° 1				
	Inizio	0	0.	0.	-3.28000		Inizio	0	0.	0.	-1.31250
	Fine	5	0.	0.	-3.28000		Fine	1.37	0.	0.	-1.31250
51	CdC n° 1					90	CdC n° 1				
	Inizio	0	0.	0.	-2.13750		Inizio	0	0.	0.	-3.27999
	Fine	1.37	0.	0.	-2.13750		Fine	4	0.	0.	-3.27999
53	CdC n° 1					91	CdC n° 1				
	Inizio	0	0.	0.	-1.31250		Inizio	0	0.	0.	-3.27999
	Fine	1.37	0.	0.	-1.31250		Fine	5	0.	0.	-3.27999

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92	CdC n° 1								
	Inizio	0	0.	0.	-2.13750	31	CdC n° 2		
	Fine	1.37	0.	0.	-2.13750		Inizio	0	0.
							Fine	4	0.
94	CdC n° 1								-4.78334
	Inizio	0	0.	0.	-1.31250	32	CdC n° 2		
	Fine	1.37	0.	0.	-1.31250		Inizio	0	0.
							Fine	5	0.
96	CdC n° 1								-4.78334
	Inizio	0	0.	0.	-1.63999	33	CdC n° 2		
	Fine	2.5	0.	0.	-1.63999		Inizio	0	0.
							Fine	1.37	0.
97	CdC n° 1								-1.99500
	Inizio	0	0.	0.	-4.75999	35	CdC n° 2		
	Fine	1.5	0.	0.	-4.75999		Inizio	0	0.
							Fine	1.37	0.
99	CdC n° 1								-1.22500
	Inizio	0	0.	0.	-3.19999	36	CdC n° 2		
	Fine	5	0.	0.	-3.19999		Inizio	0	0.
							Fine	4	0.
102	CdC n° 1								-4.78333
	Inizio	0	0.	0.	-1.31250	37	CdC n° 2		
	Fine	1.3	0.	0.	-1.31250		Inizio	0	0.
							Fine	5	0.
103	CdC n° 1								-4.78333
	Inizio	0	0.	0.	-1.56000	38	CdC n° 2		
	Fine	5	0.	0.	-1.56000		Inizio	0	0.
							Fine	1.37	0.
1	CdC n° 2								-1.99500
	Inizio	0	0.	0.	-2.27500	40	CdC n° 2		
	Fine	5	0.	0.	-2.27500		Inizio	0	0.
							Fine	1.37	0.
3	CdC n° 2								-1.22500
	Inizio	0	0.	0.	-1.22500	42	CdC n° 2		
	Fine	1.3	0.	0.	-1.22500		Inizio	0	0.
							Fine	4	0.
5	CdC n° 2								-4.78333
	Inizio	0	0.	0.	-2.39167	44	CdC n° 2		
	Fine	2.5	0.	0.	-2.39167		Inizio	0	0.
							Fine	5	0.
6	CdC n° 2								-4.78333
	Inizio	0	0.	0.	-6.94167	46	CdC n° 2		
	Fine	1.5	0.	0.	-6.94167		Inizio	0	0.
							Fine	1.37	0.
8	CdC n° 2								-1.99500
	Inizio	0	0.	0.	-4.66667	48	CdC n° 2		
	Fine	5	0.	0.	-4.66667		Inizio	0	0.
							Fine	1.37	0.
10	CdC n° 2								-1.22500
	Inizio	0	0.	0.	-1.99500	49	CdC n° 2		
	Fine	1.37	0.	0.	-1.99500		Inizio	0	0.
							Fine	4	0.
12	CdC n° 2								-4.78334
	Inizio	0	0.	0.	-1.22500	50	CdC n° 2		
	Fine	1.37	0.	0.	-1.22500		Inizio	0	0.
							Fine	5	0.
13	CdC n° 2								-4.78334
	Inizio	0	0.	0.	-4.78333	51	CdC n° 2		
	Fine	4	0.	0.	-4.78333		Inizio	0	0.
							Fine	1.37	0.
14	CdC n° 2								-1.99500
	Inizio	0	0.	0.	-4.78333	53	CdC n° 2		
	Fine	5	0.	0.	-4.78333		Inizio	0	0.
							Fine	1.37	0.
15	CdC n° 2								-1.22500
	Inizio	0	0.	0.	-1.99500	54	CdC n° 2		
	Fine	1.37	0.	0.	-1.99500		Inizio	0	0.
							Fine	4	0.
17	CdC n° 2								-4.78333
	Inizio	0	0.	0.	-1.22500	55	CdC n° 2		
	Fine	1.37	0.	0.	-1.22500		Inizio	0	0.
							Fine	5	0.
18	CdC n° 2								-4.78333
	Inizio	0	0.	0.	-4.78333	56	CdC n° 2		
	Fine	4	0.	0.	-4.78333		Inizio	0	0.
							Fine	1.37	0.
19	CdC n° 2								-1.99500
	Inizio	0	0.	0.	-4.78333	58	CdC n° 2		
	Fine	5	0.	0.	-4.78333		Inizio	0	0.
							Fine	1.37	0.
20	CdC n° 2								-1.22500
	Inizio	0	0.	0.	-1.99500	60	CdC n° 2		
	Fine	1.37	0.	0.	-1.99500		Inizio	0	0.
							Fine	4	0.
22	CdC n° 2								-4.78333
	Inizio	0	0.	0.	-1.22500	62	CdC n° 2		
	Fine	1.37	0.	0.	-1.22500		Inizio	0	0.
							Fine	5	0.
24	CdC n° 2								-4.78333
	Inizio	0	0.	0.	-4.78333	64	CdC n° 2		
	Fine	4	0.	0.	-4.78333		Inizio	0	0.
							Fine	1.37	0.
26	CdC n° 2								-1.99500
	Inizio	0	0.	0.	-4.78333	66	CdC n° 2		
	Fine	5	0.	0.	-4.78333		Inizio	0	0.
							Fine	1.37	0.
28	CdC n° 2								-1.22500
	Inizio	0	0.	0.	-1.99500	67	CdC n° 2		
	Fine	1.37	0.	0.	-1.99500		Inizio	0	0.
							Fine	4	0.
30	CdC n° 2								-4.78334
	Inizio	0	0.	0.	-1.22500	68	CdC n° 2		
	Fine	1.37	0.	0.	-1.22500		Inizio	0	0.
							Fine	5	0.



69	CdC n° 2								
	Inizio	0	0.	0.	-1.99500	6	CdC n° 3	0	0.
	Fine	1.37	0.	0.	-1.99500		Inizio	1.5	0.
71	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-1.22500	8	CdC n° 3	0	0.
	Fine	1.37	0.	0.	-1.22500		Inizio	5	0.
72	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-4.78333	10	CdC n° 3	0	0.
	Fine	4	0.	0.	-4.78333		Inizio	1.37	0.
73	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-4.78333	12	CdC n° 3	0	0.
	Fine	5	0.	0.	-4.78333		Inizio	1.37	0.
74	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-1.99500	13	CdC n° 3	0	0.
	Fine	1.37	0.	0.	-1.99500		Inizio	4	0.
76	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-1.22500	14	CdC n° 3	0	0.
	Fine	1.37	0.	0.	-1.22500		Inizio	5	0.
78	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-4.78333	15	CdC n° 3	0	0.
	Fine	4	0.	0.	-4.78333		Inizio	1.37	0.
80	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-4.78333	17	CdC n° 3	0	0.
	Fine	5	0.	0.	-4.78333		Inizio	1.37	0.
82	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-1.99500	18	CdC n° 3	0	0.
	Fine	1.37	0.	0.	-1.99500		Inizio	4	0.
84	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-1.22500	19	CdC n° 3	0	0.
	Fine	1.37	0.	0.	-1.22500		Inizio	5	0.
85	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-4.78334	20	CdC n° 3	0	0.
	Fine	4	0.	0.	-4.78334		Inizio	1.37	0.
86	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-4.78334	22	CdC n° 3	0	0.
	Fine	5	0.	0.	-4.78334		Inizio	1.37	0.
87	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-1.99500	24	CdC n° 3	0	0.
	Fine	1.37	0.	0.	-1.99500		Inizio	4	0.
89	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-1.22500	26	CdC n° 3	0	0.
	Fine	1.37	0.	0.	-1.22500		Inizio	5	0.
90	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-4.78333	28	CdC n° 3	0	0.
	Fine	4	0.	0.	-4.78333		Inizio	1.37	0.
91	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-4.78333	30	CdC n° 3	0	0.
	Fine	5	0.	0.	-4.78333		Inizio	1.37	0.
92	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-1.99500	31	CdC n° 3	0	0.
	Fine	1.37	0.	0.	-1.99500		Inizio	4	0.
94	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-1.22500	32	CdC n° 3	0	0.
	Fine	1.37	0.	0.	-1.22500		Inizio	5	0.
96	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-2.39166	33	CdC n° 3	0	0.
	Fine	2.5	0.	0.	-2.39166		Inizio	1.37	0.
97	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-6.94166	35	CdC n° 3	0	0.
	Fine	1.5	0.	0.	-6.94166		Inizio	1.37	0.
99	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-4.66666	36	CdC n° 3	0	0.
	Fine	5	0.	0.	-4.66666		Inizio	4	0.
102	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-1.22500	37	CdC n° 3	0	0.
	Fine	1.3	0.	0.	-1.22500		Inizio	5	0.
103	CdC n° 2						Fine	0.	0.
	Inizio	0	0.	0.	-2.27500	38	CdC n° 3	0	0.
	Fine	5	0.	0.	-2.27500		Inizio	1.37	0.
1	CdC n° 3						Fine	0.	0.
	Inizio	0	0.	0.	-2.60000	40	CdC n° 3	0	0.
	Fine	5	0.	0.	-2.60000		Inizio	1.37	0.
3	CdC n° 3						Fine	0.	0.
	Inizio	0	0.	0.	-1.40000	42	CdC n° 3	0	0.
	Fine	1.3	0.	0.	-1.40000		Inizio	4	0.
5	CdC n° 3						Fine	0.	0.
	Inizio	0	0.	0.	-2.73333	44	CdC n° 3	0	0.
	Fine	2.5	0.	0.	-2.73333		Inizio	5	0.
							Fine	0.	0.

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46	CdC n° 3						Fine	5	0.	0.	-5.46666
	Inizio	0	0.	0.	-2.28000	74	CdC n° 3				
	Fine	1.37	0.	0.	-2.28000		Inizio	0	0.	0.	-2.28000
48	CdC n° 3						Fine	1.37	0.	0.	-2.28000
	Inizio	0	0.	0.	-1.40000	76	CdC n° 3				
	Fine	1.37	0.	0.	-1.40000		Inizio	0	0.	0.	-1.40000
49	CdC n° 3						Fine	1.37	0.	0.	-1.40000
	Inizio	0	0.	0.	-5.46667	78	CdC n° 3				
	Fine	4	0.	0.	-5.46667		Inizio	0	0.	0.	-5.46667
50	CdC n° 3						Fine	4	0.	0.	-5.46667
	Inizio	0	0.	0.	-5.46667	80	CdC n° 3				
	Fine	5	0.	0.	-5.46667		Inizio	0	0.	0.	-5.46667
51	CdC n° 3						Fine	5	0.	0.	-5.46667
	Inizio	0	0.	0.	-2.28000	82	CdC n° 3				
	Fine	1.37	0.	0.	-2.28000		Inizio	0	0.	0.	-2.28000
53	CdC n° 3						Fine	1.37	0.	0.	-2.28000
	Inizio	0	0.	0.	-1.40000	84	CdC n° 3				
	Fine	1.37	0.	0.	-1.40000		Inizio	0	0.	0.	-1.40000
54	CdC n° 3						Fine	1.37	0.	0.	-1.40000
	Inizio	0	0.	0.	-5.46666	85	CdC n° 3				
	Fine	4	0.	0.	-5.46666		Inizio	0	0.	0.	-5.46668
55	CdC n° 3						Fine	4	0.	0.	-5.46668
	Inizio	0	0.	0.	-5.46666	86	CdC n° 3				
	Fine	5	0.	0.	-5.46666		Inizio	0	0.	0.	-5.46668
56	CdC n° 3						Fine	5	0.	0.	-5.46668
	Inizio	0	0.	0.	-2.28000	87	CdC n° 3				
	Fine	1.37	0.	0.	-2.28000		Inizio	0	0.	0.	-2.28000
58	CdC n° 3						Fine	1.37	0.	0.	-2.28000
	Inizio	0	0.	0.	-1.40000	89	CdC n° 3				
	Fine	1.37	0.	0.	-1.40000		Inizio	0	0.	0.	-1.40000
60	CdC n° 3						Fine	1.37	0.	0.	-1.40000
	Inizio	0	0.	0.	-5.46667	90	CdC n° 3				
	Fine	4	0.	0.	-5.46667		Inizio	0	0.	0.	-5.46666
62	CdC n° 3						Fine	4	0.	0.	-5.46666
	Inizio	0	0.	0.	-5.46667	91	CdC n° 3				
	Fine	5	0.	0.	-5.46667		Inizio	0	0.	0.	-5.46666
64	CdC n° 3						Fine	5	0.	0.	-5.46666
	Inizio	0	0.	0.	-2.28000	92	CdC n° 3				
	Fine	1.37	0.	0.	-2.28000		Inizio	0	0.	0.	-2.28000
66	CdC n° 3						Fine	1.37	0.	0.	-2.28000
	Inizio	0	0.	0.	-1.40000	94	CdC n° 3				
	Fine	1.37	0.	0.	-1.40000		Inizio	0	0.	0.	-1.40000
67	CdC n° 3						Fine	1.37	0.	0.	-1.40000
	Inizio	0	0.	0.	-5.46667	96	CdC n° 3				
	Fine	4	0.	0.	-5.46667		Inizio	0	0.	0.	-2.73332
68	CdC n° 3						Fine	2.5	0.	0.	-2.73332
	Inizio	0	0.	0.	-5.46667	97	CdC n° 3				
	Fine	5	0.	0.	-5.46667		Inizio	0	0.	0.	-7.93332
69	CdC n° 3						Fine	1.5	0.	0.	-7.93332
	Inizio	0	0.	0.	-2.28000	99	CdC n° 3				
	Fine	1.37	0.	0.	-2.28000		Inizio	0	0.	0.	-5.33332
71	CdC n° 3						Fine	5	0.	0.	-5.33332
	Inizio	0	0.	0.	-1.40000	102	CdC n° 3				
	Fine	1.37	0.	0.	-1.40000		Inizio	0	0.	0.	-1.40000
72	CdC n° 3						Fine	1.3	0.	0.	-1.40000
	Inizio	0	0.	0.	-5.46666	103	CdC n° 3				
	Fine	4	0.	0.	-5.46666		Inizio	0	0.	0.	-2.60000
73	CdC n° 3						Fine	5	0.	0.	-2.60000
	Inizio	0	0.	0.	-5.46666						

1.11.2 BEAM CARICHI DISTRIB. IN DIREZIONE GLOBALE DOVUTI ALLE AZIONI DEL VENTO NORMALE

I carichi vengono descritti da una o più successioni di punti notevoli, tra i quali viene effettuata una interpolazione lineare.

Beam = Numero dell'Elemento Beam
CdC = Condizione di Carico Elementare a cui appartiene il Carico
Dist = distanza dal primo nodo Beam del punto di definizione carico
Tipo = Può assumere i seguenti valori:
- Inizio indica l'inizio della serie di punti

- Fine indica la fine della serie di punti
Per punti intermedi non viene data nessuna indicazione

qX = valore del carico distribuito in direzione globale X
qY = valore del carico distribuito in direzione globale Y
qZ = valore del carico distribuito in direzione globale Z

Beam	Tipo	Dist (m)	qX (kN/m)	qY (kN/m)	qZ (kN/m)
5	CdC n° 4				
	Inizio	0	0.791571	0.	0.
	Fine	2.5	0.791571	0.	0.
6	CdC n° 4				
	Inizio	0	0.791571	0.	0.
	Fine	1.5	0.791571	0.	0.
96	CdC n° 4				
	Inizio	0	0.395786	0.	0.
	Fine	2.5	0.395786	0.	0.
97	CdC n° 4				
	Inizio	0	0.395786	0.	0.
	Fine	1.5	0.395786	0.	0.
10	CdC n° 5				
	Inizio	0	0.	0.791571	0.
	Fine	1.37	0.	0.791571	0.
11	CdC n° 5				
	Inizio	0	0.	0.395786	0.
	Fine	1.37	0.	0.395786	0.
15	CdC n° 5				
	Inizio	0	0.	0.791571	0.
	Fine	1.37	0.	0.791571	0.
16	CdC n° 5				
	Inizio	0	0.	0.395786	0.
	Fine	1.37	0.	0.395786	0.
20	CdC n° 5				
	Inizio	0	0.	0.791571	0.
	Fine	1.37	0.	0.791571	0.
21	CdC n° 5				
	Inizio	0	0.	0.395786	0.
	Fine	1.37	0.	0.395786	0.
28	CdC n° 5				
	Inizio	0	0.	0.791571	0.
	Fine	1.37	0.	0.791571	0.
29	CdC n° 5				
	Inizio	0	0.	0.395786	0.
	Fine	1.37	0.	0.395786	0.
33	CdC n° 5				
	Inizio	0	0.	0.791571	0.
	Fine	1.37	0.	0.791571	0.
34	CdC n° 5				
	Inizio	0	0.	0.395786	0.
	Fine	1.37	0.	0.395786	0.
38	CdC n° 5				
	Inizio	0	0.	0.791571	0.
	Fine	1.37	0.	0.791571	0.
39	CdC n° 5				
	Inizio	0	0.	0.395786	0.
	Fine	1.37	0.	0.395786	0.
46	CdC n° 5				
	Inizio	0	0.	0.791571	0.
	Fine	1.37	0.	0.791571	0.
47	CdC n° 5				
	Inizio	0	0.	0.395786	0.
	Fine	1.37	0.	0.395786	0.
51	CdC n° 5				
	Inizio	0	0.	0.791571	0.
	Fine	1.37	0.	0.791571	0.
52	CdC n° 5				
	Inizio	0	0.	0.395786	0.
	Fine	1.37	0.	0.395786	0.
56	CdC n° 5				
	Inizio	0	0.	0.791571	0.
	Fine	1.37	0.	0.791571	0.
57	CdC n° 5				
	Inizio	0	0.	0.395786	0.
	Fine	1.37	0.	0.395786	0.

64	CdC n° 5				
	Inizio	0	0.	0.791571	0.
	Fine	1.37	0.	0.791571	0.
65	CdC n° 5				
	Inizio	0	0.	0.395786	0.
	Fine	1.37	0.	0.395786	0.
69	CdC n° 5				
	Inizio	0	0.	0.791571	0.
	Fine	1.37	0.	0.791571	0.
70	CdC n° 5				
	Inizio	0	0.	0.395786	0.
	Fine	1.37	0.	0.395786	0.
74	CdC n° 5				
	Inizio	0	0.	0.791571	0.
	Fine	1.37	0.	0.791571	0.
75	CdC n° 5				
	Inizio	0	0.	0.395786	0.
	Fine	1.37	0.	0.395786	0.
82	CdC n° 5				
	Inizio	0	0.	0.791571	0.
	Fine	1.37	0.	0.791571	0.
83	CdC n° 5				
	Inizio	0	0.	0.395786	0.
	Fine	1.37	0.	0.395786	0.
87	CdC n° 5				
	Inizio	0	0.	0.791571	0.
	Fine	1.37	0.	0.791571	0.
88	CdC n° 5				
	Inizio	0	0.	0.395786	0.
	Fine	1.37	0.	0.395786	0.
92	CdC n° 5				
	Inizio	0	0.	0.791571	0.
	Fine	1.37	0.	0.791571	0.
93	CdC n° 5				
	Inizio	0	0.	0.395786	0.
	Fine	1.37	0.	0.395786	0.
10	CdC n° 6				
	Inizio	0	0.	-0.39579	0.
	Fine	1.37	0.	-0.39579	0.
11	CdC n° 6				
	Inizio	0	0.	-0.79157	0.
	Fine	1.37	0.	-0.79157	0.
15	CdC n° 6				
	Inizio	0	0.	-0.39579	0.
	Fine	1.37	0.	-0.39579	0.
16	CdC n° 6				
	Inizio	0	0.	-0.79157	0.
	Fine	1.37	0.	-0.79157	0.
20	CdC n° 6				
	Inizio	0	0.	-0.39579	0.
	Fine	1.37	0.	-0.39579	0.
21	CdC n° 6				
	Inizio	0	0.	-0.79157	0.
	Fine	1.37	0.	-0.79157	0.
28	CdC n° 6				
	Inizio	0	0.	-0.39579	0.
	Fine	1.37	0.	-0.39579	0.
29	CdC n° 6				
	Inizio	0	0.	-0.79157	0.
	Fine	1.37	0.	-0.79157	0.
33	CdC n° 6				
	Inizio	0	0.	-0.39579	0.
	Fine	1.37	0.	-0.39579	0.
34	CdC n° 6				
	Inizio	0	0.	-0.79157	0.
	Fine	1.37	0.	-0.79157	0.
38	CdC n° 6				
	Inizio	0	0.	-0.39579	0.
	Fine	1.37	0.	-0.39579	0.

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39	CdC n° 6					Fine	1.37	0.	-0.39579	0.	
	Inizio	0	0.	-0.79157	0.	70	CdC n° 6				
	Fine	1.37	0.	-0.79157	0.		Inizio	0	0.	-0.79157	0.
46	CdC n° 6						Fine	1.37	0.	-0.79157	0.
	Inizio	0	0.	-0.39579	0.	74	CdC n° 6				
	Fine	1.37	0.	-0.39579	0.		Inizio	0	0.	-0.39579	0.
47	CdC n° 6						Fine	1.37	0.	-0.39579	0.
	Inizio	0	0.	-0.79157	0.	75	CdC n° 6				
	Fine	1.37	0.	-0.79157	0.		Inizio	0	0.	-0.79157	0.
51	CdC n° 6						Fine	1.37	0.	-0.79157	0.
	Inizio	0	0.	-0.39579	0.	82	CdC n° 6				
	Fine	1.37	0.	-0.39579	0.		Inizio	0	0.	-0.39579	0.
52	CdC n° 6						Fine	1.37	0.	-0.39579	0.
	Inizio	0	0.	-0.79157	0.	83	CdC n° 6				
	Fine	1.37	0.	-0.79157	0.		Inizio	0	0.	-0.79157	0.
56	CdC n° 6						Fine	1.37	0.	-0.79157	0.
	Inizio	0	0.	-0.39579	0.	87	CdC n° 6				
	Fine	1.37	0.	-0.39579	0.		Inizio	0	0.	-0.39579	0.
57	CdC n° 6						Fine	1.37	0.	-0.39579	0.
	Inizio	0	0.	-0.79157	0.	88	CdC n° 6				
	Fine	1.37	0.	-0.79157	0.		Inizio	0	0.	-0.79157	0.
64	CdC n° 6						Fine	1.37	0.	-0.79157	0.
	Inizio	0	0.	-0.39579	0.	92	CdC n° 6				
	Fine	1.37	0.	-0.39579	0.		Inizio	0	0.	-0.39579	0.
65	CdC n° 6						Fine	1.37	0.	-0.39579	0.
	Inizio	0	0.	-0.79157	0.	93	CdC n° 6				
	Fine	1.37	0.	-0.79157	0.		Inizio	0	0.	-0.79157	0.
69	CdC n° 6						Fine	1.37	0.	-0.79157	0.
	Inizio	0	0.	-0.39579	0.						

1.11.3 BEAM CARICHI DISTRIB. IN DIREZIONE GLOBALE DOVUTI ALLE AZIONI DEL VENTO TANGENTE

I carichi vengono descritti da una o più successioni di punti notevoli, tra i quali viene effettuata una interpolazione lineare.

Beam = Numero dell'Elemento Beam
CdC = Condizione di Carico Elementare a cui appartiene il Carico
Dist = distanza dal primo nodo Beam del punto di definizione carico
Tipo = Può assumere i seguenti valori:
- Inizio indica l'inizio della serie di punti
- Fine indica la fine della serie di punti
Per punti intermedi non viene data nessuna indicazione

q_X = valore del carico distribuito in direzione globale X
 q_Y = valore del carico distribuito in direzione globale Y
 q_Z = valore del carico distribuito in direzione globale Z

[illegible]

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	Inizio	0	0.003639	0.	0.		Fine	4	0.017449	0.	0.
	Fine	1.37	0.003639	0.	0.	62	CdC n° 4				
22	CdC n° 4						Inizio	0	0.017449	0.	0.
	Inizio	0	0.002234	0.	0.		Fine	5	0.017449	0.	0.
	Fine	1.37	0.002234	0.	0.	64	CdC n° 4				
24	CdC n° 4						Inizio	0	0.003639	0.	0.
	Inizio	0	0.017449	0.	0.		Fine	1.37	0.003639	0.	0.
	Fine	4	0.017449	0.	0.	66	CdC n° 4				
26	CdC n° 4						Inizio	0	0.002234	0.	0.
	Inizio	0	0.017449	0.	0.		Fine	1.37	0.002234	0.	0.
	Fine	5	0.017449	0.	0.	67	CdC n° 4				
28	CdC n° 4						Inizio	0	0.017449	0.	0.
	Inizio	0	0.003639	0.	0.		Fine	4	0.017449	0.	0.
	Fine	1.37	0.003639	0.	0.	68	CdC n° 4				
30	CdC n° 4						Inizio	0	0.017449	0.	0.
	Inizio	0	0.002234	0.	0.		Fine	5	0.017449	0.	0.
	Fine	1.37	0.002234	0.	0.	69	CdC n° 4				
31	CdC n° 4						Inizio	0	0.003639	0.	0.
	Inizio	0	0.017449	0.	0.		Fine	1.37	0.003639	0.	0.
	Fine	4	0.017449	0.	0.	71	CdC n° 4				
32	CdC n° 4						Inizio	0	0.002234	0.	0.
	Inizio	0	0.017449	0.	0.		Fine	1.37	0.002234	0.	0.
	Fine	5	0.017449	0.	0.	72	CdC n° 4				
33	CdC n° 4						Inizio	0	0.017449	0.	0.
	Inizio	0	0.003639	0.	0.		Fine	4	0.017449	0.	0.
	Fine	1.37	0.003639	0.	0.	73	CdC n° 4				
35	CdC n° 4						Inizio	0	0.017449	0.	0.
	Inizio	0	0.002234	0.	0.		Fine	5	0.017449	0.	0.
	Fine	1.37	0.002234	0.	0.	74	CdC n° 4				
36	CdC n° 4						Inizio	0	0.003639	0.	0.
	Inizio	0	0.017449	0.	0.		Fine	1.37	0.003639	0.	0.
	Fine	4	0.017449	0.	0.	76	CdC n° 4				
37	CdC n° 4						Inizio	0	0.002234	0.	0.
	Inizio	0	0.017449	0.	0.		Fine	1.37	0.002234	0.	0.
	Fine	5	0.017449	0.	0.	78	CdC n° 4				
38	CdC n° 4						Inizio	0	0.017449	0.	0.
	Inizio	0	0.003639	0.	0.		Fine	4	0.017449	0.	0.
	Fine	1.37	0.003639	0.	0.	80	CdC n° 4				
40	CdC n° 4						Inizio	0	0.017449	0.	0.
	Inizio	0	0.002234	0.	0.		Fine	5	0.017449	0.	0.
	Fine	1.37	0.002234	0.	0.	82	CdC n° 4				
42	CdC n° 4						Inizio	0	0.003639	0.	0.
	Inizio	0	0.017449	0.	0.		Fine	1.37	0.003639	0.	0.
	Fine	4	0.017449	0.	0.	84	CdC n° 4				
44	CdC n° 4						Inizio	0	0.002234	0.	0.
	Inizio	0	0.017449	0.	0.		Fine	1.37	0.002234	0.	0.
	Fine	5	0.017449	0.	0.	85	CdC n° 4				
46	CdC n° 4						Inizio	0	0.017449	0.	0.
	Inizio	0	0.003639	0.	0.		Fine	4	0.017449	0.	0.
	Fine	1.37	0.003639	0.	0.	86	CdC n° 4				
48	CdC n° 4						Inizio	0	0.017449	0.	0.
	Inizio	0	0.002234	0.	0.		Fine	5	0.017449	0.	0.
	Fine	1.37	0.002234	0.	0.	87	CdC n° 4				
49	CdC n° 4						Inizio	0	0.003639	0.	0.
	Inizio	0	0.017449	0.	0.		Fine	1.37	0.003639	0.	0.
	Fine	4	0.017449	0.	0.	89	CdC n° 4				
50	CdC n° 4						Inizio	0	0.002234	0.	0.
	Inizio	0	0.017449	0.	0.		Fine	1.37	0.002234	0.	0.
	Fine	5	0.017449	0.	0.	90	CdC n° 4				
51	CdC n° 4						Inizio	0	0.017449	0.	0.
	Inizio	0	0.003639	0.	0.		Fine	4	0.017449	0.	0.
	Fine	1.37	0.003639	0.	0.	91	CdC n° 4				
53	CdC n° 4						Inizio	0	0.017449	0.	0.
	Inizio	0	0.002234	0.	0.		Fine	5	0.017449	0.	0.
	Fine	1.37	0.002234	0.	0.	92	CdC n° 4				
54	CdC n° 4						Inizio	0	0.003639	0.	0.
	Inizio	0	0.017449	0.	0.		Fine	1.37	0.003639	0.	0.
	Fine	4	0.017449	0.	0.	94	CdC n° 4				
55	CdC n° 4						Inizio	0	0.002234	0.	0.
	Inizio	0	0.017449	0.	0.		Fine	1.37	0.002234	0.	0.
	Fine	5	0.017449	0.	0.	96	CdC n° 4				
56	CdC n° 4						Inizio	0	0.008724	0.	0.
	Inizio	0	0.003639	0.	0.		Fine	2.5	0.008724	0.	0.
	Fine	1.37	0.003639	0.	0.	97	CdC n° 4				
58	CdC n° 4						Inizio	0	0.017023	0.	0.
	Inizio	0	0.002234	0.	0.		Fine	1.5	0.017023	0.	0.
	Fine	1.37	0.002234	0.	0.	99	CdC n° 4				
60	CdC n° 4						Inizio	0	0.017023	0.	0.
	Inizio	0	0.017449	0.	0.		Fine	5	0.017023	0.	0.

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102	CdC n° 4					Inizio	0	1.07e-18	0.017449	0.
	Inizio	0	0.002234	0.	0.	Fine	5	1.07e-18	0.017449	0.
	Fine	1.3	0.002234	0.	0.	38	CdC n° 5			
103	CdC n° 4					Inizio	0	2.23e-19	0.003639	0.
	Inizio	0	0.008299	0.	0.	Fine	1.37	2.23e-19	0.003639	0.
	Fine	5	0.008299	0.	0.	40	CdC n° 5			
1	CdC n° 5					Inizio	0	1.37e-19	0.002234	0.
	Inizio	0	5.08e-19	0.008299	0.	Fine	1.37	1.37e-19	0.002234	0.
	Fine	5	5.08e-19	0.008299	0.	42	CdC n° 5			
3	CdC n° 5					Inizio	0	1.07e-18	0.017449	0.
	Inizio	0	1.37e-19	0.002234	0.	Fine	4	1.07e-18	0.017449	0.
	Fine	1.3	1.37e-19	0.002234	0.	44	CdC n° 5			
5	CdC n° 5					Inizio	0	1.07e-18	0.017449	0.
	Inizio	0	5.34e-19	0.008724	0.	Fine	5	1.07e-18	0.017449	0.
	Fine	2.5	5.34e-19	0.008724	0.	46	CdC n° 5			
6	CdC n° 5					Inizio	0	2.23e-19	0.003639	0.
	Inizio	0	1.04e-18	0.017023	0.	Fine	1.37	2.23e-19	0.003639	0.
	Fine	1.5	1.04e-18	0.017023	0.	48	CdC n° 5			
8	CdC n° 5					Inizio	0	1.37e-19	0.002234	0.
	Inizio	0	1.04e-18	0.017023	0.	Fine	1.37	1.37e-19	0.002234	0.
	Fine	5	1.04e-18	0.017023	0.	49	CdC n° 5			
10	CdC n° 5					Inizio	0	1.07e-18	0.017449	0.
	Inizio	0	2.23e-19	0.003639	0.	Fine	4	1.07e-18	0.017449	0.
	Fine	1.37	2.23e-19	0.003639	0.	50	CdC n° 5			
12	CdC n° 5					Inizio	0	1.07e-18	0.017449	0.
	Inizio	0	1.37e-19	0.002234	0.	Fine	5	1.07e-18	0.017449	0.
	Fine	1.37	1.37e-19	0.002234	0.	51	CdC n° 5			
13	CdC n° 5					Inizio	0	2.23e-19	0.003639	0.
	Inizio	0	1.07e-18	0.017449	0.	Fine	1.37	2.23e-19	0.003639	0.
	Fine	4	1.07e-18	0.017449	0.	53	CdC n° 5			
14	CdC n° 5					Inizio	0	1.37e-19	0.002234	0.
	Inizio	0	1.07e-18	0.017449	0.	Fine	1.37	1.37e-19	0.002234	0.
	Fine	5	1.07e-18	0.017449	0.	54	CdC n° 5			
15	CdC n° 5					Inizio	0	1.07e-18	0.017449	0.
	Inizio	0	2.23e-19	0.003639	0.	Fine	4	1.07e-18	0.017449	0.
	Fine	1.37	2.23e-19	0.003639	0.	55	CdC n° 5			
17	CdC n° 5					Inizio	0	1.07e-18	0.017449	0.
	Inizio	0	1.37e-19	0.002234	0.	Fine	5	1.07e-18	0.017449	0.
	Fine	1.37	1.37e-19	0.002234	0.	56	CdC n° 5			
18	CdC n° 5					Inizio	0	2.23e-19	0.003639	0.
	Inizio	0	1.07e-18	0.017449	0.	Fine	1.37	2.23e-19	0.003639	0.
	Fine	4	1.07e-18	0.017449	0.	58	CdC n° 5			
19	CdC n° 5					Inizio	0	1.37e-19	0.002234	0.
	Inizio	0	1.07e-18	0.017449	0.	Fine	1.37	1.37e-19	0.002234	0.
	Fine	5	1.07e-18	0.017449	0.	60	CdC n° 5			
20	CdC n° 5					Inizio	0	1.07e-18	0.017449	0.
	Inizio	0	2.23e-19	0.003639	0.	Fine	4	1.07e-18	0.017449	0.
	Fine	1.37	2.23e-19	0.003639	0.	62	CdC n° 5			
22	CdC n° 5					Inizio	0	1.07e-18	0.017449	0.
	Inizio	0	1.37e-19	0.002234	0.	Fine	5	1.07e-18	0.017449	0.
	Fine	1.37	1.37e-19	0.002234	0.	64	CdC n° 5			
24	CdC n° 5					Inizio	0	2.23e-19	0.003639	0.
	Inizio	0	1.07e-18	0.017449	0.	Fine	1.37	2.23e-19	0.003639	0.
	Fine	4	1.07e-18	0.017449	0.	66	CdC n° 5			
26	CdC n° 5					Inizio	0	1.37e-19	0.002234	0.
	Inizio	0	1.07e-18	0.017449	0.	Fine	1.37	1.37e-19	0.002234	0.
	Fine	5	1.07e-18	0.017449	0.	67	CdC n° 5			
28	CdC n° 5					Inizio	0	1.07e-18	0.017449	0.
	Inizio	0	2.23e-19	0.003639	0.	Fine	4	1.07e-18	0.017449	0.
	Fine	1.37	2.23e-19	0.003639	0.	68	CdC n° 5			
30	CdC n° 5					Inizio	0	1.07e-18	0.017449	0.
	Inizio	0	1.37e-19	0.002234	0.	Fine	5	1.07e-18	0.017449	0.
	Fine	1.37	1.37e-19	0.002234	0.	69	CdC n° 5			
31	CdC n° 5					Inizio	0	2.23e-19	0.003639	0.
	Inizio	0	1.07e-18	0.017449	0.	Fine	1.37	2.23e-19	0.003639	0.
	Fine	4	1.07e-18	0.017449	0.	71	CdC n° 5			
32	CdC n° 5					Inizio	0	1.37e-19	0.002234	0.
	Inizio	0	1.07e-18	0.017449	0.	Fine	1.37	1.37e-19	0.002234	0.
	Fine	5	1.07e-18	0.017449	0.	72	CdC n° 5			
33	CdC n° 5					Inizio	0	1.07e-18	0.017449	0.
	Inizio	0	2.23e-19	0.003639	0.	Fine	4	1.07e-18	0.017449	0.
	Fine	1.37	2.23e-19	0.003639	0.	73	CdC n° 5			
35	CdC n° 5					Inizio	0	1.07e-18	0.017449	0.
	Inizio	0	1.37e-19	0.002234	0.	Fine	5	1.07e-18	0.017449	0.
	Fine	1.37	1.37e-19	0.002234	0.	74	CdC n° 5			
36	CdC n° 5					Inizio	0	2.23e-19	0.003639	0.
	Inizio	0	1.07e-18	0.017449	0.	Fine	1.37	2.23e-19	0.003639	0.
	Fine	4	1.07e-18	0.017449	0.	76	CdC n° 5			
37	CdC n° 5					Inizio	0	1.37e-19	0.002234	0.

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78	Fine	1.37	1.37e-19	0.002234	0.	15	CdC n° 6	0	-2.2e-19	0.003639	0.
	Inizio	0	1.07e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Fine	4	1.07e-18	0.017449	0.	17	CdC n° 6	0	-1.4e-19	0.002234	0.
80	CdC n° 5	0	1.07e-18	0.017449	0.		Inizio	1.37	-1.4e-19	0.002234	0.
	Inizio	5	1.07e-18	0.017449	0.	18	CdC n° 6	0	-1.1e-18	0.017449	0.
	Fine	0	2.23e-19	0.003639	0.		Inizio	4	-1.1e-18	0.017449	0.
82	CdC n° 5	1.37	2.23e-19	0.003639	0.	19	CdC n° 6	0	-1.1e-18	0.017449	0.
	Inizio	0	1.37e-19	0.002234	0.		Inizio	5	-1.1e-18	0.017449	0.
	Fine	1.37	1.37e-19	0.002234	0.	20	CdC n° 6	0	-2.2e-19	0.003639	0.
84	CdC n° 5	0	1.07e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Inizio	4	1.07e-18	0.017449	0.	22	CdC n° 6	0	-1.4e-19	0.002234	0.
	Fine	0	1.07e-18	0.017449	0.		Inizio	1.37	-1.4e-19	0.002234	0.
85	CdC n° 5	0	2.23e-19	0.003639	0.	24	CdC n° 6	0	-1.1e-18	0.017449	0.
	Inizio	1.37	2.23e-19	0.003639	0.		Inizio	4	-1.1e-18	0.017449	0.
	Fine	0	1.37e-19	0.002234	0.	26	CdC n° 6	0	-1.1e-18	0.017449	0.
86	CdC n° 5	1.37	1.37e-19	0.002234	0.		Inizio	5	-1.1e-18	0.017449	0.
	Inizio	0	1.07e-18	0.017449	0.	28	CdC n° 6	0	-2.2e-19	0.003639	0.
	Fine	0	1.07e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
87	CdC n° 5	0	2.23e-19	0.003639	0.	30	CdC n° 6	0	-1.4e-19	0.002234	0.
	Inizio	1.37	2.23e-19	0.003639	0.		Inizio	1.37	-1.4e-19	0.002234	0.
	Fine	0	1.37e-19	0.002234	0.	31	CdC n° 6	0	-1.1e-18	0.017449	0.
89	CdC n° 5	1.37	1.37e-19	0.002234	0.		Inizio	4	-1.1e-18	0.017449	0.
	Inizio	0	1.07e-18	0.017449	0.	32	CdC n° 6	0	-1.1e-18	0.017449	0.
	Fine	0	1.07e-18	0.017449	0.		Inizio	5	-1.1e-18	0.017449	0.
90	CdC n° 5	0	2.23e-19	0.003639	0.	33	CdC n° 6	0	-2.2e-19	0.003639	0.
	Inizio	1.37	2.23e-19	0.003639	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Fine	0	1.37e-19	0.002234	0.	35	CdC n° 6	0	-1.4e-19	0.002234	0.
91	CdC n° 5	1.37	1.37e-19	0.002234	0.		Inizio	1.37	-1.4e-19	0.002234	0.
	Inizio	0	1.07e-18	0.017449	0.	36	CdC n° 6	0	-1.1e-18	0.017449	0.
	Fine	0	1.07e-18	0.017449	0.		Inizio	4	-1.1e-18	0.017449	0.
92	CdC n° 5	0	2.23e-19	0.003639	0.	37	CdC n° 6	0	-1.1e-18	0.017449	0.
	Inizio	1.37	2.23e-19	0.003639	0.		Inizio	5	-1.1e-18	0.017449	0.
	Fine	0	1.37e-19	0.002234	0.	38	CdC n° 6	0	-2.2e-19	0.003639	0.
94	CdC n° 5	1.37	1.37e-19	0.002234	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Inizio	0	5.34e-19	0.008724	0.	40	CdC n° 6	0	-1.4e-19	0.002234	0.
	Fine	2.5	5.34e-19	0.008724	0.		Inizio	1.37	-1.4e-19	0.002234	0.
96	CdC n° 5	0	1.04e-18	0.017023	0.	42	CdC n° 6	0	-1.1e-18	0.017449	0.
	Inizio	1.5	1.04e-18	0.017023	0.		Inizio	4	-1.1e-18	0.017449	0.
	Fine	0	1.04e-18	0.017023	0.	44	CdC n° 6	0	-1.1e-18	0.017449	0.
97	CdC n° 5	0	1.04e-18	0.017023	0.		Inizio	5	-1.1e-18	0.017449	0.
	Inizio	0	1.04e-18	0.017023	0.	46	CdC n° 6	0	-2.2e-19	0.003639	0.
	Fine	0	1.04e-18	0.017023	0.		Inizio	1.37	-2.2e-19	0.003639	0.
99	CdC n° 5	0	1.04e-18	0.017023	0.	48	CdC n° 6	0	-1.4e-19	0.002234	0.
	Inizio	0	1.04e-18	0.017023	0.		Inizio	1.37	-1.4e-19	0.002234	0.
	Fine	0	1.04e-18	0.017023	0.	49	CdC n° 6	0	-1.1e-18	0.017449	0.
102	CdC n° 5	0	1.37e-19	0.002234	0.		Inizio	4	-1.1e-18	0.017449	0.
	Inizio	1.3	1.37e-19	0.002234	0.	50	CdC n° 6	0	-1.1e-18	0.017449	0.
	Fine	0	5.08e-19	0.008299	0.		Inizio	5	-1.1e-18	0.017449	0.
103	CdC n° 5	5	5.08e-19	0.008299	0.	51	CdC n° 6	0	-2.2e-19	0.003639	0.
	Inizio	0	-5.1e-19	0.008299	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Fine	5	-5.1e-19	0.008299	0.	53	CdC n° 6	0	-1.4e-19	0.002234	0.
1	CdC n° 6	0	-1.4e-19	0.002234	0.		Inizio	1.37	-1.4e-19	0.002234	0.
	Inizio	1.3	-1.4e-19	0.002234	0.	54	CdC n° 6	0	-1.1e-18	0.017449	0.
	Fine	0	-5.3e-19	0.008724	0.		Inizio	4	-1.1e-18	0.017449	0.
3	CdC n° 6	2.5	-5.3e-19	0.008724	0.		Inizio	5	-1.1e-18	0.017449	0.
	Inizio	0	-1.0e-18	0.017023	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Fine	1.5	-1.0e-18	0.017023	0.		Inizio	1.37	-2.2e-19	0.003639	0.
5	CdC n° 6	0	-1.0e-18	0.017023	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Inizio	0	-1.0e-18	0.017023	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Fine	0	-1.0e-18	0.017023	0.		Inizio	1.37	-2.2e-19	0.003639	0.
6	CdC n° 6	0	-2.2e-19	0.003639	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Inizio	1.37	-2.2e-19	0.003639	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Fine	0	-1.4e-19	0.002234	0.		Inizio	1.37	-2.2e-19	0.003639	0.
8	CdC n° 6	1.37	-1.4e-19	0.002234	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Inizio	0	-1.1e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Fine	4	-1.1e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
10	CdC n° 6	0	-1.1e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Inizio	0	-1.1e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Fine	0	-1.1e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
12	CdC n° 6	0	-1.1e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Inizio	0	-1.1e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Fine	0	-1.1e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
13	CdC n° 6	0	-1.1e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Inizio	0	-1.1e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Fine	0	-1.1e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
14	CdC n° 6	0	-1.1e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Inizio	0	-1.1e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.
	Fine	0	-1.1e-18	0.017449	0.		Inizio	1.37	-2.2e-19	0.003639	0.

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	Inizio	0	-1.1e-18	0.017449	0.		Fine	4	-1.1e-18	0.017449	0.
	Fine	4	-1.1e-18	0.017449	0.	80	CdC n° 6				
55	CdC n° 6						Inizio	0	-1.1e-18	0.017449	0.
	Inizio	0	-1.1e-18	0.017449	0.		Fine	5	-1.1e-18	0.017449	0.
	Fine	5	-1.1e-18	0.017449	0.	82	CdC n° 6				
56	CdC n° 6						Inizio	0	-2.2e-19	0.003639	0.
	Inizio	0	-2.2e-19	0.003639	0.		Fine	1.37	-2.2e-19	0.003639	0.
	Fine	1.37	-2.2e-19	0.003639	0.	84	CdC n° 6				
58	CdC n° 6						Inizio	0	-1.4e-19	0.002234	0.
	Inizio	0	-1.4e-19	0.002234	0.		Fine	1.37	-1.4e-19	0.002234	0.
	Fine	1.37	-1.4e-19	0.002234	0.	85	CdC n° 6				
60	CdC n° 6						Inizio	0	-1.1e-18	0.017449	0.
	Inizio	0	-1.1e-18	0.017449	0.		Fine	4	-1.1e-18	0.017449	0.
	Fine	4	-1.1e-18	0.017449	0.	86	CdC n° 6				
62	CdC n° 6						Inizio	0	-1.1e-18	0.017449	0.
	Inizio	0	-1.1e-18	0.017449	0.		Fine	5	-1.1e-18	0.017449	0.
	Fine	5	-1.1e-18	0.017449	0.	87	CdC n° 6				
64	CdC n° 6						Inizio	0	-2.2e-19	0.003639	0.
	Inizio	0	-2.2e-19	0.003639	0.		Fine	1.37	-2.2e-19	0.003639	0.
	Fine	1.37	-2.2e-19	0.003639	0.	89	CdC n° 6				
66	CdC n° 6						Inizio	0	-1.4e-19	0.002234	0.
	Inizio	0	-1.4e-19	0.002234	0.		Fine	1.37	-1.4e-19	0.002234	0.
	Fine	1.37	-1.4e-19	0.002234	0.	90	CdC n° 6				
67	CdC n° 6						Inizio	0	-1.1e-18	0.017449	0.
	Inizio	0	-1.1e-18	0.017449	0.		Fine	4	-1.1e-18	0.017449	0.
	Fine	4	-1.1e-18	0.017449	0.	91	CdC n° 6				
68	CdC n° 6						Inizio	0	-1.1e-18	0.017449	0.
	Inizio	0	-1.1e-18	0.017449	0.		Fine	5	-1.1e-18	0.017449	0.
	Fine	5	-1.1e-18	0.017449	0.	92	CdC n° 6				
69	CdC n° 6						Inizio	0	-2.2e-19	0.003639	0.
	Inizio	0	-2.2e-19	0.003639	0.		Fine	1.37	-2.2e-19	0.003639	0.
	Fine	1.37	-2.2e-19	0.003639	0.	94	CdC n° 6				
71	CdC n° 6						Inizio	0	-1.4e-19	0.002234	0.
	Inizio	0	-1.4e-19	0.002234	0.		Fine	1.37	-1.4e-19	0.002234	0.
	Fine	1.37	-1.4e-19	0.002234	0.	96	CdC n° 6				
72	CdC n° 6						Inizio	0	-5.3e-19	0.008724	0.
	Inizio	0	-1.1e-18	0.017449	0.		Fine	2.5	-5.3e-19	0.008724	0.
	Fine	4	-1.1e-18	0.017449	0.	97	CdC n° 6				
73	CdC n° 6						Inizio	0	-1.0e-18	0.017023	0.
	Inizio	0	-1.1e-18	0.017449	0.		Fine	1.5	-1.0e-18	0.017023	0.
	Fine	5	-1.1e-18	0.017449	0.	99	CdC n° 6				
74	CdC n° 6						Inizio	0	-1.0e-18	0.017023	0.
	Inizio	0	-2.2e-19	0.003639	0.		Fine	5	-1.0e-18	0.017023	0.
	Fine	1.37	-2.2e-19	0.003639	0.	102	CdC n° 6				
76	CdC n° 6						Inizio	0	-1.4e-19	0.002234	0.
	Inizio	0	-1.4e-19	0.002234	0.		Fine	1.3	-1.4e-19	0.002234	0.
	Fine	1.37	-1.4e-19	0.002234	0.	103	CdC n° 6				
78	CdC n° 6						Inizio	0	-5.1e-19	0.008299	0.
	Inizio	0	-1.1e-18	0.017449	0.		Fine	5	-5.1e-19	0.008299	0.

1.12 CONDIZIONI DI CARICO GENERALI DEI CARICHI DA SOLAIO/TAMPONAMENTO

Di seguito vengono indicate le condizioni elementari di carico nelle quali sono applicati i carichi da solaio in mancanza di indicazioni specifiche per il singolo elemento solaio-tamponamento:

- Condizione di carico nella quale applicare il Peso Proprio del solaio: 1
- Condizione di carico nella quale applicare il Sovraccarico Permanente del solaio: 2
- Condizione di carico nella quale applicare il carico Variabile per la Scacchiera A: 3
- Condizione di carico nella quale applicare il carico Variabile per la Scacchiera B: 3

1.13 CONDIZIONI DI CARICO SPECIFICHE DEI CARICHI DA SOLAIO/TAMPONAMENTO

Per gli elementi tipo solaio che differiscono dalle condizioni generali di seguito sono indicate le condizioni di carico elementari associate ai carichi da solaio, una volta che questi sono stati scaricati sugli elementi sottostanti.

Solaio = numero del solaio, la dicitura Default indica le impostazioni per i solai ai quali questo dataset non è stato assegnato

CdC PP = Condizione di carico nella quale applicare il Peso Proprio del solaio

CdC SP = Condizione di carico nella quale applicare il Sovraccarico Permanente del solaio

CdC SA = Condizione di carico nella quale applicare il carico Variabile per la Scacchiera A

CdC SB = Condizione di carico nella quale applicare il carico Variabile per la Scacchiera B

Solaio	CdC PP	CdC SP	CdC SA	CdC SB
1	1	2	3	3
2	1	2	3	3
4	1	2	3	3
5	1	2	3	3
9	1	2	3	3
10	1	2	3	3
11	1	2	3	3
12	1	2	3	3
13	1	2	3	3
14	1	2	3	3
15	1	2	3	3
16	1	2	3	3
17	1	2	3	3
18	1	2	3	3
19	1	2	3	3
20	1	2	3	3
21	1	2	3	3
22	1	2	3	3
23	1	2	3	3
24	1	2	3	3
25	1	2	3	3
26	1	2	3	3
27	1	2	3	3
28	1	2	3	3
29	1	2	3	3
30	1	2	3	3
31	1	2	3	3
32	1	2	3	3
33	1	2	3	3
34	1	2	3	3
35	1	2	3	3
36	1	2	3	3
37	1	2	3	3
38	1	2	3	3
39	1	2	3	3
40	1	2	3	3

1.14 ANALISI MODALE

Di seguito sono descritti tutti i parametri utilizzati per l'analisi modale.

Metodo di calcolo utilizzato: Restarted Lanczos

Matrici di Massa: CONSISTENT matrice di massa completa

Sequenza di STURM Abilitata

Moto Rigido non consentito

Tolleranza per calcolo autovalori 0

Numero Massimo di iterazioni per il calcolo autovalori 24

Analisi modale con effetti del II ordine: No

L'analisi modale è stata svolta considerando il modello nella fase 1.

Di seguito sono indicati i periodi per ogni modo di vibrare estratto

Lancio n°1:

n. Modo	Periodo (Secondi)
1	0.72964
2	0.43046
3	0.42127
4	0.19494
5	0.19494

n. Modo	Periodo (Secondi)
6	0.17783
7	0.17715
8	0.17649
9	0.17308
10	0.17308

Lancio n°2:

n. Modo	Periodo (Secondi)
1	0.73093

n. Modo	Periodo (Secondi)
2	0.4312

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n. Modo	Periodo (Secondi)
3	0.43046
4	0.18113
5	0.18113
6	0.17447

n. Modo	Periodo (Secondi)
7	0.17447
8	0.15915
9	0.15855
10	0.15796

Lancio n°3:

n. Modo	Periodo (Secondi)
1	0.72939
2	0.4619
3	0.39363
4	0.20314
5	0.18462

n. Modo	Periodo (Secondi)
6	0.18036
7	0.17739
8	0.16837
9	0.16485
10	0.1498

Lancio n°4:

n. Modo	Periodo (Secondi)
1	0.72939
2	0.4619
3	0.39363
4	0.20314
5	0.18462

n. Modo	Periodo (Secondi)
6	0.18036
7	0.17739
8	0.16837
9	0.16485
10	0.1498

1.15 ANALISI SISMICA LINEARE

Di seguito vengono indicati i parametri dell'analisi sismica.

Parametri del DM 17/01/2018:

Categoria suolo di fondazione: D
 Categoria Topografica: T1
 Coeff.smorzam.equivalente ξ : 5 %
 Fattore di struttura q_x, q_y per sismi in dir.x e y (orizzontali) e q_z (verticali): 1.5, 1.5, 1.5
 Classe di duttilità Bassa
 Coefficiente eccentricità accidentale centro di massa: 0.05
 L'eccentricità accidentale è assunta costante ed è calcolata sulla base delle dimensioni massime della struttura

La massa propria degli elementi strutturali è inclusa nelle analisi sismiche.

1.15.1 FATTORE DI STRUTTURA PER SISMA IN DIREZIONE X

1.15.1.1 Fattore di struttura per spettri SLV

Il valore di q_x è stato imposto a $q_x = 1.5$.

Il valore di $q_{0,x}$ è stato imposto a $q_{0,x} = 1.5$.

1.15.1.2 Fattore di struttura per spettri SLD

Il valore del fattore di struttura per gli spettri SLD è stato imposto a $q_x = 1.5$.

1.15.2 FATTORE DI STRUTTURA PER SISMA IN DIREZIONE Y

1.15.2.1 Fattore di struttura per spettri SLV

Il valore di q_y è stato imposto a $q_y = 1.5$.

Il valore di $q_{0,y}$ è stato imposto a $q_{0,y} = 1.5$.

1.15.2.2 Fattore di struttura per spettri SLD

Il valore del fattore di struttura per gli spettri SLD è stato imposto a $q_y = 1.5$.

1.15.3 CONDIZIONI SISMICHE DINAMICHE

La presente analisi numerica prevede l'esame delle condizioni di carico sismiche corrispondenti alle seguenti tipologie di azioni indicate in tabella:

CdC = numero della condizione di carico dinamica

Lancio = ad ogni lancio corrisponde una distribuzione delle masse differente; tutte le CdC di tipo sismico statico equivalente sono analizzate in un unico lancio statico del solutore, mentre per le CdC dinamiche ad ogni lancio corrisponde un lancio dinamico del solutore.

Nome = nome della CdC dinamica

Tipo = indica la direzione ed eventualmente il tipo di CdC sismica

SottoTipo: indica il tipo di stato limite:

· SLO, SLD, SLV, SLC sono gli stati limite del par.3.2.1 DM 17/01/2018

Spettro di risposta = definisce il coefficiente di risposta in funzione del periodo

a_g/g = questo valore indica l'accelerazione di picco del suolo, espressa in $g = 9.80665 \text{ m/s}^2$

Dy = indica che si tratta di una CdC dinamica

Molt.X , Molt.Y , Molt.Z: moltiplicatori per applicare lo spettro di risposta alle varie direzioni.

CdC	Lancio	Nome	Tipo	Spettro di Risposta	a_g/g	Molt.X	Molt.Y	Molt.Z
1	1	Sisma SLO X Dx	Sisma SLE X (Dy)	~DM2018 SLO X	0.0261	1	0	0
			SottoTipo: SLO					
5	1	Sisma SLD X Dx	Sisma SLE X (Dy)	~DM 2018 SLD X	0.0321	1	0	0
			SottoTipo: SLD					
9	1	Sisma SLV X Dx	Sisma SLU X (Dy)	~DM 2018 SLV X	0.0661	1	0	0
			SottoTipo: SLV					
2	2	Sisma SLO X Sx	Sisma SLE X (Dy)	~DM2018 SLO X	0.0261	1	0	0
			SottoTipo: SLO					
6	2	Sisma SLD X Sx	Sisma SLE X (Dy)	~DM 2018 SLD X	0.0321	1	0	0
			SottoTipo: SLD					
10	2	Sisma SLV X Sx	Sisma SLU X (Dy)	~DM 2018 SLV X	0.0661	1	0	0
			SottoTipo: SLV					
3	3	Sisma SLO Y Dx	Sisma SLE Y (Dy)	~DM 2018 SLO Y	0.0261	0	1	0
			SottoTipo: SLO					
7	3	Sisma SLD Y Dx	Sisma SLE Y (Dy)	~DM 2018 SLD Y	0.0321	0	1	0
			SottoTipo: SLD					
11	3	Sisma SLV Y Dx	Sisma SLU Y (Dy)	~DM 2018 SLV Y	0.0661	0	1	0
			SottoTipo: SLV					
4	4	Sisma SLO Y Sx	Sisma SLE Y (Dy)	~DM 2018 SLO Y	0.0261	0	1	0
			SottoTipo: SLO					
8	4	Sisma SLD Y Sx	Sisma SLE Y (Dy)	~DM 2018 SLD Y	0.0321	0	1	0
			SottoTipo: SLD					
12	4	Sisma SLV Y Sx	Sisma SLU Y (Dy)	~DM 2018 SLV Y	0.0661	0	1	0
			SottoTipo: SLV					

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1.15.4 PARAMETRI PER CALCOLO SPETTRI DI RISPOSTA

Per il calcolo degli spettri di risposta secondo il §3.2 dei DM 17/01/2018 - DM 14/01/2008 sono stati utilizzati i seguenti parametri, ove:

P_{VR}	probabilità di superamento nel periodo di ritorno
T_R	periodo di ritorno
a_g/g	accelerazione orizzontale massima del suolo
F_o	valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale
T_c^*	valore base per calcolo del periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale

Collocazione del sito: Longitudine = 10.0069°, Latitudine = 46.0351°

SLD:

$P_{VR}=63\%$, $T_R= 50$ anni, $a_g/g = 0.0321$ sec, $F_o = 2.5863$, $T_c^*= 0.2019$ sec

SLV:

$P_{VR}=10\%$, $T_R= 475$ anni, $a_g/g = 0.0661$ sec, $F_o = 2.6662$, $T_c^*= 0.29$ sec

1.15.5 SPETTRI DI RISPOSTA UTILIZZATI

Spettro per Punti ~DM 2018 SLV Y

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	1.8
2	0.224	3.199
3	0.673	3.199
4	0.873	2.467
5	1.073	2.007
6	1.273	1.692
7	1.473	1.462
8	1.673	1.287
9	1.864	1.155

10	2.064	0.942
11	2.264	0.783
12	2.464	0.661
13	2.664	0.566
14	2.864	0.489
15	3.064	0.428
16	3.264	0.377
17	3.464	0.335
18	3.664	0.299
19	3.864	0.269
20	4	0.251

Spettro per Punti ~DM 2018 SLV X

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	1.8
2	0.224	3.199
3	0.673	3.199
4	0.873	2.467
5	1.073	2.007
6	1.273	1.692
7	1.473	1.462
8	1.673	1.287
9	1.864	1.155

10	2.064	0.942
11	2.264	0.783
12	2.464	0.661
13	2.664	0.566
14	2.864	0.489
15	3.064	0.428
16	3.264	0.377
17	3.464	0.335
18	3.664	0.299
19	3.864	0.269
20	4	0.251

Spettro per Punti ~DM 2018 SLD Y

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	1.8
2	0.187	3.104

3	0.562	3.104
4	0.762	2.289
5	0.962	1.813
6	1.162	1.501

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7	1.362	1.28
8	1.562	1.116
9	1.728	1.009
10	1.928	0.81
11	2.128	0.665
12	2.328	0.556
13	2.528	0.471
14	2.728	0.405

15	2.928	0.351
16	3.128	0.308
17	3.328	0.272
18	3.528	0.242
19	3.728	0.217
20	3.928	0.2
21	4	0.2

Spettro per Punti ~DM 2018 SLD X

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	1.8
2	0.187	3.104
3	0.562	3.104
4	0.762	2.289
5	0.962	1.813
6	1.162	1.501
7	1.362	1.28
8	1.562	1.116
9	1.728	1.009
10	1.928	0.81
11	2.128	0.665

12	2.328	0.556
13	2.528	0.471
14	2.728	0.405
15	2.928	0.351
16	3.128	0.308
17	3.328	0.272
18	3.528	0.242
19	3.728	0.217
20	3.928	0.2
21	4	0.2

Spettro per Punti ~DM 2018 SLO Y

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	1.8
2	0.177	4.573
3	0.53	4.573
4	0.73	3.321
5	0.93	2.607
6	1.13	2.146
7	1.33	1.823
8	1.53	1.585
9	1.704	1.423
10	1.904	1.14
11	2.104	0.933

12	2.304	0.778
13	2.504	0.659
14	2.704	0.565
15	2.904	0.49
16	3.104	0.429
17	3.304	0.379
18	3.504	0.337
19	3.704	0.301
20	3.904	0.271
21	4	0.258

Spettro per Punti ~DM2018 SLO X

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	1.8
2	0.177	4.573
3	0.53	4.573
4	0.73	3.321
5	0.93	2.607
6	1.13	2.146
7	1.33	1.823
8	1.53	1.585
9	1.704	1.423
10	1.904	1.14
11	2.104	0.933

12	2.304	0.778
13	2.504	0.659
14	2.704	0.565
15	2.904	0.49
16	3.104	0.429
17	3.304	0.379
18	3.504	0.337
19	3.704	0.301
20	3.904	0.271
21	4	0.258

1.15.6 MULTIPLICATORI CALCOLO AUTOMATICO MASSE

Di seguito sono elencati i moltiplicatori delle CdC elementari per il calcolo automatico delle masse:

CdC = n. Condizione di Carico Elementare

Coeff.SLE = moltiplicatori per lo Stato Limite d'Esercizio

Coeff.SLU = moltiplicatori per lo Stato Limite Ultimo

X, Y, Z = coefficienti di direzionalità

CdC	Coeff.SLE	Coeff.SLU	X	Y	Z
1	1	1	1	1	1
2	1	1	1	1	1
3	0.6	0.6	1	1	1
4	0	0	1	1	1
5	0	0	1	1	1
6	0	0	1	1	1

1.15.7 DEFINIZIONI PIANI PER CALCOLO OFFSET MASSE

I piani per il calcolo dell'offset delle masse sono stati definiti tramite i seguenti gruppi di selezione:

Nome Gruppo di Selezione
~: Impalcato n°1
~: Impalcato n°2

1.15.8 ANALISI DINAMICA

Metodo di combinazione modale:

- CQC nel calcolo della risposta sismica, i contributi derivanti dai singoli modi sono combinati tenendo conto del segno delle singole componenti modali. La generica componente U_i delle risposte sismiche è data da una combinazione quadratica delle componenti U_{ij} ($j=1, N.\text{modi}$) in cui i coefficienti di combinazione fra due modi distinti dipendono dai coefficienti di smorzamento dei due modi e dal rapporto fra le due frequenze. Se non vengono assegnati smorzamenti modali, i risultati forniti da questo metodo coincidono con quelli del metodo RMS.

1.15.9 MASSE MOVIMENTATE

La massa movimentata è calcolata in percentuale sulla massa totale applicata ai gradi di libertà dei nodi non vincolati.

A seguito sono descritte le percentuali di masse movimentate:

Lancio n°1:

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
1	0.72964	99.952	99.952	0.000	0.000	0.000	0.000
2	0.43046	99.952	0.000	100.003	100.003	0.000	0.000
3	0.42127	100.003	0.051	100.003	0.000	0.000	0.000
4	0.19494	100.003	0.000	100.003	0.000	6.698	6.698
5	0.19494	100.003	0.000	100.003	0.000	6.880	0.182
6	0.17783	100.003	0.000	100.003	0.000	24.333	17.453
7	0.17715	100.003	0.000	100.003	0.000	24.333	0.000
8	0.17649	100.003	0.000	100.003	0.000	24.829	0.496
9	0.17308	100.003	0.000	100.003	0.000	25.992	1.164
10	0.17308	100.003	0.000	100.003	0.000	27.156	1.164

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Lancio n°2:

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
1	0.73093	99.760	99.760	0.000	0.000	0.000	0.000
2	0.4312	100.003	0.243	0.000	0.000	0.000	0.000
3	0.43046	100.003	0.000	100.003	100.003	0.000	0.000
4	0.18113	100.003	0.000	100.003	0.000	1.396	1.396
5	0.18113	100.003	0.000	100.003	0.000	2.317	0.921
6	0.17447	100.003	0.000	100.003	0.000	7.639	5.322
7	0.17447	100.003	0.000	100.003	0.000	7.780	0.142
8	0.15915	100.003	0.000	100.003	0.000	21.773	13.993
9	0.15855	100.003	0.000	100.003	0.000	21.773	0.000
10	0.15796	100.003	0.000	100.003	0.000	22.168	0.395

Lancio n°3:

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
1	0.72939	99.983	99.983	0.000	0.000	0.000	0.000
2	0.4619	99.993	0.010	59.836	59.836	0.000	0.000
3	0.39363	100.003	0.010	100.003	40.167	0.000	0.000
4	0.20314	100.003	0.000	100.003	0.000	3.733	3.733
5	0.18462	100.003	0.000	100.003	0.000	10.532	6.799
6	0.18036	100.003	0.000	100.003	0.000	11.797	1.265
7	0.17739	100.003	0.000	100.003	0.000	12.890	1.093
8	0.16837	100.003	0.000	100.003	0.000	18.252	5.362
9	0.16485	100.003	0.000	100.003	0.000	20.691	2.438
10	0.1498	100.003	0.000	100.003	0.000	24.717	4.027

Lancio n°4:

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
1	0.72939	99.983	99.983	0.000	0.000	0.000	0.000
2	0.4619	99.993	0.010	59.836	59.836	0.000	0.000
3	0.39363	100.003	0.010	100.003	40.167	0.000	0.000
4	0.20314	100.003	0.000	100.003	0.000	3.733	3.733
5	0.18462	100.003	0.000	100.003	0.000	10.532	6.799
6	0.18036	100.003	0.000	100.003	0.000	11.797	1.265
7	0.17739	100.003	0.000	100.003	0.000	12.890	1.093
8	0.16837	100.003	0.000	100.003	0.000	18.252	5.362
9	0.16485	100.003	0.000	100.003	0.000	20.691	2.438
10	0.1498	100.003	0.000	100.003	0.000	24.717	4.027

1.15.10 AUTOVALORI

Di seguito sono indicati gli autovalori trovati:

Lancio n°1:

numero autovalori: 10

n°	Autovalore
1	74.1554
2	213.054
3	222.451
4	1038.86

n°	Autovalore
5	1038.86
6	1248.45
7	1257.94
8	1267.43

n°	Autovalore
9	1317.81
10	1317.81

Lancio n°2:

numero autovalori: 10

n°	Autovalore
1	73.8946
2	212.327
3	213.054

n°	Autovalore
4	1203.31
5	1203.31
6	1296.93

n°	Autovalore
7	1296.93
8	1558.59
9	1570.44

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10	1582.29
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Lancio n°3:

numero autovalori: 10

n°	Autovalore
1	74.2053
2	185.041
3	254.787
4	956.664

n°	Autovalore
5	1158.23
6	1213.55
7	1254.55
8	1392.66

n°	Autovalore
9	1452.75
10	1759.34

Lancio n°4:

numero autovalori: 10

n°	Autovalore
1	74.2053
2	185.041
3	254.788
4	956.664

n°	Autovalore
5	1158.23
6	1213.55
7	1254.55
8	1392.65

n°	Autovalore
9	1452.75
10	1759.34

1.15.11 PERIODI SPETTRI UTILIZZATI NELLE VERIFICHE

Nell'esecuzione delle verifiche, qualora queste li richiedano, i periodi degli spettri utilizzati sono (in secondi):

Periodi fondam. T_{1x} , T_{1y} , T_{1z} (per sisma in dir.x,y,z): 0.72939, 0.43046, 0.17783

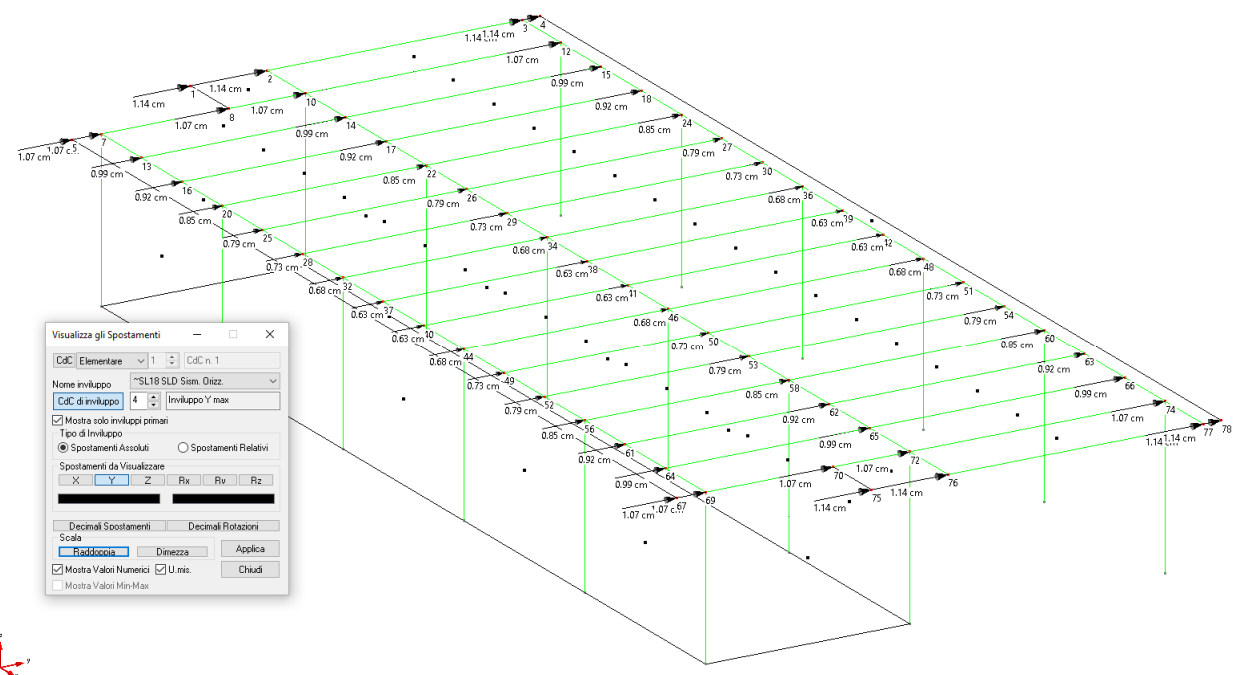
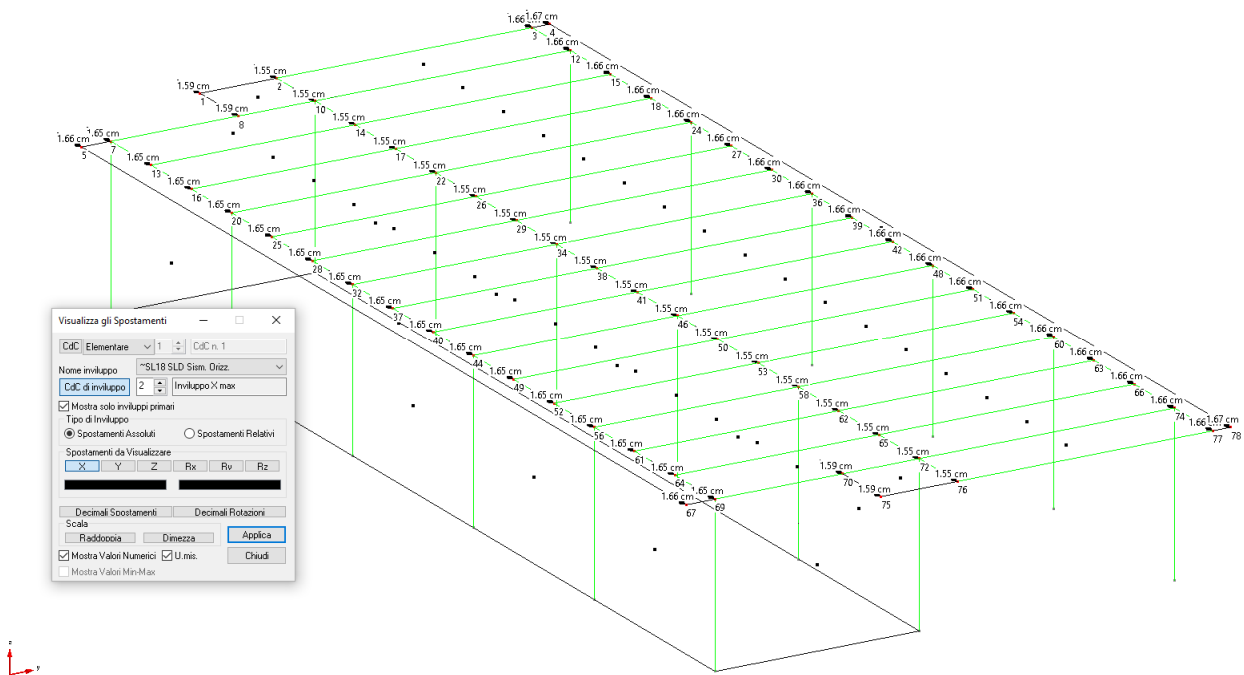
Periodo T_c per sismi x,y: 0.673146

Periodo T_c per sismi z: 0.15

2. DESCRIZIONE DEI RISULTATI DI CALCOLO

Di seguito sono descritti i dati generati dal calcolo del modello.

2.1 SPOSTAMENTI NODALI



Per ciascuna Condizione di Carico Elementare Statica, Condizione Sismica, Combinazione di Carico per Analisi Non Lineare vengono riportati gli spostamenti e le rotazioni di ciascun nodo del modello.

Nodo = Numero del Nodo
CdC = Condizione di Carico (S = Statico, D = Dinamico, N = Non Lineare)
Sx = Spostamento del nodo in direzione globale X
Sy = Spostamento del nodo in direzione globale Y
Sz = Spostamento del nodo in direzione globale Z
Rx = Rotazione del nodo attorno all'asse globale X
Ry = Rotazione del nodo attorno all'asse globale Y
Rz = Rotazione del nodo attorno all'asse globale Z

Nodo 1							9D	2.573956	-0.09822	-1.7e-19	0.014497	-1.4e-19	0.004872
CdC							10D	2.682895	0.212867	3.73e-16	-0.03142	-3.3e-16	-0.01056
Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)		11D	-0.35459	0.990119	1.20e-18	-0.21378	5.09e-19	0.046307
1S	-1.9e-18	6.43e-19	0.	0.	0.		12D	0.354591	1.414582	1.03e-17	-0.29575	4.70e-18	-0.04631
2S	-2.9e-19	-1.5e-17	0.	0.	0.		Nodo 4						
3S	-2.9e-19	-1.5e-17	0.	0.	0.		CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
4S	0.050537	-0.00523	0.	0.	0.		1S	-1.9e-18	6.43e-19	0.	0.	0.	-1.4e-21
5S	1.09e-13	0.063030	0.	0.	0.		2S	-2.7e-19	-1.5e-17	0.	0.	0.	-1.4e-21
6S	1.09e-13	-0.05056	0.	0.	0.		3S	-2.7e-19	-1.5e-17	0.	0.	0.	-1.4e-21
1D	1.152002	-0.04457	0.	0.	0.		4S	0.047434	-0.00523	0.	0.	0.	0.000260
2D	1.127804	0.096840	0.	0.	0.		5S	-3.0e-13	0.063030	0.	0.	0.	3.40e-14
3D	0.096552	0.558992	0.	0.	0.		6S	-3.0e-13	-0.05056	0.	0.	0.	3.40e-14
4D	-0.09655	0.798630	0.	0.	0.		1D	1.128066	-0.04457	0.	0.	0.	0.002211
5D	1.031946	-0.03949	0.	0.	0.		2D	1.179479	0.096840	0.	0.	0.	-0.00480
6D	1.009742	0.085686	0.	0.	0.		3D	-0.21611	0.558992	0.	0.	0.	0.026143
7D	0.080592	0.466574	0.	0.	0.		4D	0.216112	0.798630	0.	0.	0.	-0.02614
8D	-0.08059	0.666593	0.	0.	0.		5D	1.010481	-0.03949	0.	0.	0.	0.001959
9D	2.625922	-0.09822	0.	0.	0.		6D	1.056054	0.085686	0.	0.	0.	-0.00425
10D	2.570770	0.212867	0.	0.	0.		7D	-0.18039	0.466574	0.	0.	0.	0.021821
11D	0.171048	0.990119	0.	0.	0.		8D	0.180391	0.666593	0.	0.	0.	-0.02182
12D	-0.17105	1.414582	0.	0.	0.		9D	2.571161	-0.09822	0.	0.	0.	0.004872
Nodo 2							10D	2.688952	0.212867	0.	0.	0.	-0.01056
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)	11D	-0.38287	0.990119	0.	0.	0.	0.046307
1S	-1.9e-18	6.43e-19	0.154656	6.80e-15	0.065939	-1.4e-21	12D	0.382871	1.414582	0.	0.	0.	-0.04631
2S	-2.8e-19	-1.5e-17	0.207812	1.30e-14	0.089087	-1.4e-21	Nodo 5						
3S	-2.8e-19	-1.5e-17	0.237499	1.30e-14	0.101814	-1.4e-21	CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
4S	0.049857	-0.00523	0.	0.000772	0.	0.000260	1S	-1.9e-18	6.40e-19	0.	0.	0.	-1.4e-21
5S	1.98e-14	0.063030	0.	-0.01747	0.	3.40e-14	2S	-2.9e-19	-1.5e-17	0.	0.	0.	-1.4e-21
6S	1.98e-14	-0.05056	0.	0.014017	0.	3.40e-14	3S	-2.9e-19	-1.5e-17	0.	0.	0.	-1.4e-21
1D	1.146751	-0.04457	-1.5e-16	0.006578	-6.6e-17	0.002211	4S	0.051927	-0.00464	0.	0.	0.	0.000260
2D	1.139073	0.096840	8.97e-17	-0.01429	4.49e-17	-0.00480	5S	2.91e-13	0.063030	0.	0.	0.	3.40e-14
3D	0.028287	0.558992	5.61e-16	-0.12069	2.06e-16	0.026143	6S	2.91e-13	-0.05056	0.	0.	0.	3.40e-14
4D	-0.02829	0.798630	-6.9e-17	-0.16697	-3.2e-17	-0.02614	1D	1.162765	-0.03955	0.	0.	0.	0.002211
5D	1.027238	-0.03949	-1.3e-16	0.005828	-5.6e-17	0.001959	2D	1.104829	0.085940	0.	0.	0.	-0.00480
6D	1.019847	0.085686	7.44e-17	-0.01265	3.78e-17	-0.00425	3D	0.236588	0.521323	0.	0.	0.	0.026143
7D	0.023633	0.466574	4.67e-16	-0.10074	1.71e-16	0.021821	4D	-0.23659	0.748663	0.	0.	0.	-0.02614
8D	-0.02363	0.666593	-5.8e-17	-0.13936	-2.7e-17	-0.02182	5D	1.041594	-0.03504	0.	0.	0.	0.001959
9D	2.613918	-0.09822	-2.8e-16	0.014497	-1.2e-16	0.004872	6D	0.989130	0.076042	0.	0.	0.	-0.00425
10D	2.596584	0.212867	1.55e-16	-0.03142	-8.2e-17	-0.01056	7D	0.197471	0.435133	0.	0.	0.	0.021821
11D	0.050319	0.990119	9.71e-16	-0.21378	3.52e-16	0.046307	8D	-0.19747	0.624888	0.	0.	0.	-0.02182
12D	-0.05032	1.414582	-1.2e-16	-0.29575	-5.5e-17	-0.04631	9D	2.650512	-0.08717	0.	0.	0.	0.004872
Nodo 3							10D	2.518058	0.188908	0.	0.	0.	-0.01056
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)	11D	0.419045	0.923398	0.	0.	0.	0.046307
1S	-1.9e-18	6.43e-19	0.064212	-5.3e-16	0.025035	-1.4e-21	12D	-0.41904	1.326078	0.	0.	0.	-0.04631
2S	-2.7e-19	-1.5e-17	0.081337	4.08e-18	0.032006	-1.4e-21	Nodo 7						
3S	-2.7e-19	-1.5e-17	0.092956	4.08e-18	0.036578	-1.4e-21	CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
4S	0.047592	-0.00523	0.	0.000772	0.	0.000260	1S	-1.9e-18	6.40e-19	-0.00262	-7.5e-15	0.075017	-1.4e-21
5S	-2.8e-13	0.063030	0.	-0.01747	0.	3.40e-14	2S	-2.9e-19	-1.5e-17	-0.00275	-6.5e-15	0.083276	-1.4e-21
6S	-2.8e-13	-0.05056	0.	0.014017	0.	3.40e-14	3S	-2.9e-19	-1.5e-17	-0.00314	-6.5e-15	0.095172	-1.4e-21
1D	1.129287	-0.04457	-1.0e-19	0.006578	-8.3e-20	0.002211	4S	0.051669	-0.00464	0.	0.000772	0.	0.000260
2D	1.176826	0.096840	2.13e-16	-0.01429	-1.6e-16	-0.00480	5S	2.57e-13	0.063030	0.	-0.01747	0.	3.40e-14
3D	-0.20014	0.558992	7.07e-19	-0.12069	3.02e-19	0.026143	6S	2.57e-13	-0.05056	0.	0.014017	0.	3.40e-14
4D	0.200144	0.798630	6.34e-18	-0.16697	2.91e-18	-0.02614	1D	1.160765	-0.03955	-4.0e-19	0.006578	-6.2e-20	0.002211
5D	1.011575	-0.03949	-8.6e-20	0.005828	-6.9e-20	0.001959	2D	1.109086	0.085940	1.42e-18	-0.01429	-1.3e-19	-0.00480
6D	1.053677	0.085686	1.78e-16	-0.01265	-1.4e-16	-0.00425	3D	0.210584	0.521323	-5.5e-21	-0.12069	8.31e-20	0.026143
7D	-0.16706	0.466574	5.88e-19	-0.10074	2.51e-19	0.021821	4D	-0.21058	0.748663	-6.4e-21	-0.16697	-1.5e-20	-0.02614
8D	0.167064	0.666593	5.18e-18	-0.13936	2.38e-18	-0.02182							

VALBONDIONE
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FASCICOLO DEI CALCOLI

5D	1.039801	-0.03504	-3.5e-19	0.005828	-5.3e-20	0.001959
6D	0.992950	0.076042	1.27e-18	-0.01265	-1.2e-19	-0.00425
7D	0.175766	0.435133	-4.6e-21	-0.10074	6.91e-20	0.021821
8D	-0.17577	0.624888	-5.3e-21	-0.13936	-1.3e-20	-0.02182
9D	2.645945	-0.08717	-8.8e-19	0.014497	1.14e-19	0.004872
10D	2.527832	0.188908	3.24e-18	-0.03142	-3.0e-19	-0.01056
11D	0.372987	0.923398	-9.5e-21	-0.21378	1.43e-19	0.046307
12D	-0.37299	1.326078	-1.1e-20	-0.29575	-2.7e-20	-0.04631

Nodo 8

CdC	Sx (cm)	Sy (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.40e-19	-0.26521	0.039827	0.078484	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.34646	0.051047	0.097470	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.39595	0.058339	0.111394	-1.4e-21
4S	0.050537	-0.00464	0.	0.	0.	0.000260
5S	1.09e-13	0.063030	0.	0.	0.	3.40e-14
6S	1.09e-13	-0.05056	0.	0.	0.	3.40e-14
1D	1.152002	-0.03955	1.10e-16	4.13e-17	-3.2e-17	0.002211
2D	1.127804	0.085940	2.62e-17	-3.7e-18	2.26e-17	-0.00480
3D	0.096552	0.521323	-5.4e-18	2.94e-19	1.14e-16	0.026143
4D	-0.09655	0.748663	-5.3e-18	8.57e-19	-1.8e-17	-0.02614
5D	1.031946	-0.03504	9.22e-17	3.67e-17	-2.7e-17	0.001959
6D	1.009742	0.076042	2.19e-17	-3.1e-18	1.87e-17	-0.00425
7D	0.080592	0.435133	-4.5e-18	2.44e-19	9.49e-17	0.021821
8D	-0.08059	0.624888	-4.4e-18	7.14e-19	-1.5e-17	-0.02182
9D	2.625922	-0.08717	2.00e-16	9.14e-17	-5.4e-17	0.004872
10D	2.570770	0.188908	4.65e-17	-6.6e-18	3.87e-17	-0.01056
11D	0.171048	0.923398	-9.3e-18	5.00e-19	1.95e-16	0.046307
12D	-0.17105	1.326078	-9.2e-18	1.50e-18	-3.2e-17	-0.04631

Nodo 10

CdC	Sx (cm)	Sy (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.40e-19	-0.00587	6.80e-15	0.080564	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.00711	1.30e-14	0.105987	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.00812	1.30e-14	0.121128	-1.4e-21
4S	0.049857	-0.00464	0.	0.000772	0.	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	0.	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.146751	-0.03955	6.28e-19	0.006578	-1.2e-16	0.002211
2D	1.139073	0.085940	-1.4e-18	-0.01429	3.76e-17	-0.00480
3D	0.028287	0.521323	-1.3e-18	-0.12069	2.41e-16	0.026143
4D	-0.02829	0.748663	2.37e-19	-0.16697	-2.9e-17	-0.02614
5D	1.027238	-0.03504	5.30e-19	0.005828	-1.1e-16	0.001959
6D	1.019847	0.076042	-1.3e-18	-0.01265	3.14e-17	-0.00425
7D	0.023633	0.435133	-1.0e-18	-0.10074	2.01e-16	0.021821
8D	-0.02363	0.624888	1.98e-19	-0.13936	-2.4e-17	-0.02182
9D	2.613918	-0.08717	1.14e-18	0.014497	-2.6e-16	0.004872
10D	2.596584	0.188908	-3.3e-18	-0.03142	6.62e-17	-0.01056
11D	0.050319	0.923398	-2.1e-18	-0.21378	4.18e-16	0.046307
12D	-0.05032	1.326078	4.12e-19	-0.29575	-5.0e-17	-0.04631

Nodo 12

CdC	Sx (cm)	Sy (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.40e-19	-0.00445	-5.3e-16	0.041336	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.00494	4.08e-18	0.050464	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.00565	4.08e-18	0.057673	-1.4e-21
4S	0.047592	-0.00464	0.	0.000772	0.	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.129287	-0.03955	-3.0e-20	0.006578	-6.8e-17	0.002211
2D	1.176826	0.085940	-2.2e-20	-0.01429	-1.3e-16	-0.00480
3D	-0.20014	0.521323	6.23e-22	-0.12069	2.92e-19	0.026143
4D	0.200144	0.748663	-4.7e-22	-0.16697	2.57e-18	-0.02614
5D	1.011575	-0.03504	-2.7e-20	0.005828	-6.1e-17	0.001959
6D	1.053677	0.076042	-1.9e-20	-0.01265	-1.1e-16	-0.00425
7D	-0.16706	0.435133	5.18e-22	-0.10074	2.43e-19	0.021821
8D	0.167064	0.624888	-3.8e-22	-0.13936	2.10e-18	-0.02182
9D	2.573956	-0.08717	-6.8e-20	0.014497	-1.5e-16	0.004872
10D	2.682895	0.188908	4.44e-20	-0.03142	-2.7e-16	-0.01056
11D	-0.35459	0.923398	1.06e-21	-0.21378	5.02e-19	0.046307
12D	0.354591	1.326078	-7.6e-22	-0.29575	4.19e-18	-0.04631

Nodo 13

CdC	Sx (cm)	Sy (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.37e-19	-0.15063	-7.3e-15	0.037145	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.16752	-6.5e-15	0.041432	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.19145	-6.5e-15	0.047350	-1.4e-21
4S	0.051669	-0.00402	0.	0.000772	0.	0.000260
5S	2.57e-13	0.063030	0.	-0.01747	0.	3.40e-14

6S	2.57e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.160765	-0.03428	-6.4e-19	0.006578	-2.2e-20	0.002211
2D	1.109086	0.074481	5.72e-20	-0.01429	-1.8e-20	-0.00480
3D	0.210584	0.486399	-1.8e-19	-0.12069	4.11e-20	0.026143
4D	-0.21058	0.697716	2.51e-20	-0.16697	-6.0e-21	-0.02614
5D	1.039801	-0.03037	-5.6e-19	0.005828	-1.9e-20	0.001959
6D	0.992950	0.065903	4.76e-20	-0.01265	-1.6e-20	-0.00425
7D	0.175766	0.405983	-1.5e-19	-0.10074	3.43e-20	0.021821
8D	-0.17577	0.582363	2.09e-20	-0.13936	-5.0e-21	-0.02182
9D	2.645945	-0.07554	-1.4e-18	0.014497	-4.5e-20	0.004872
10D	2.527832	0.163720	9.97e-20	-0.03142	-3.9e-20	-0.01056
11D	0.372987	0.861538	-3.0e-19	-0.21378	7.15e-20	0.046307
12D	-0.37299	1.235837	4.35e-20	-0.29575	-1.1e-20	-0.04631

Nodo 14

CdC	Sx (cm)	Sy (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.37e-19	-0.18672	6.98e-15	0.050771	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.24141	1.30e-14	0.064951	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.27590	1.30e-14	0.074230	-1.4e-21
4S	0.049857	-0.00402	0.	0.000772	0.	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	0.	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.146751	-0.03428	9.69e-17	0.006578	-3.5e-17	0.002211
2D	1.139073	0.074481	-6.3e-17	-0.01429	1.66e-17	-0.00480
3D	0.028287	0.486399	-5.1e-16	-0.12069	6.56e-17	0.026143
4D	-0.02829	0.697716	5.51e-17	-0.16697	-1.2e-17	-0.02614
5D	1.027238	-0.03037	8.16e-17	0.005828	-3.0e-17	0.001959
6D	1.019847	0.065903	-5.2e-17	-0.01265	1.40e-17	-0.00425
7D	0.023633	0.405983	-4.3e-16	-0.10074	5.45e-17	0.021821
8D	-0.02363	0.582363	4.60e-17	-0.13936	-1.0e-17	-0.02182
9D	2.613918	-0.07554	1.70e-16	0.014497	-7.3e-17	0.004872
10D	2.596584	0.163720	-1.1e-16	-0.03142	-3.0e-17	-0.01056
11D	0.050319	0.861538	-9.0e-16	-0.21378	1.11e-16	0.046307
12D	-0.05032	1.235837	9.60e-17	-0.29575	-2.1e-17	-0.04631

Nodo 15

CdC	Sx (cm)	Sy (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.37e-19	-0.11021	-3.5e-16	0.032621	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.13154	4.08e-18	0.038526	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.15033	4.08e-18	0.044030	-1.4e-21
4S	0.047592	-0.00402	0.	0.000772	0.	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.129287	-0.03428	-1.2e-16	0.006578	3.40e-17	0.002211
2D	1.176826	0.074481	-1.5e-16	-0.01429	3.33e-17	-0.00480
3D	-0.20014	0.486399	-5.3e-19	-0.12069	6.36e-20	0.026143
4D	0.200144	0.697716	-4.4e-18	-0.16697	9.67e-19	-0.02614
5D	1.011575	-0.03037	-1.1e-16	0.005828	3.04e-17	0.001959
6D	1.053677	0.065903	-1.3e-16	-0.01265	2.82e-17	-0.00425
7D	-0.16706	0.405983	-4.4e-19	-0.10074	5.27e-20	0.021821
8D	0.167064	0.582363	-3.6e-18	-0.13936	7.94e-19	-0.02182
9D	2.573956	-0.07554	-2.8e-16	0.014497	7.75e-17	0.004872
10D	2.682895	0.163720	-2.7e-16	-0.03142	6.21e-17	-0.01056
11D	-0.35459	0.861538	-9.1e-19	-0.21378	1.05e-19	0.046307
12D	0.354591	1.235837	-7.2e-18	-0.29575	1.59e-18	-0.04631

Nodo 16

CdC	Sx (cm)	Sy (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.34e-19	-0.15134	-4.8e-15	-0.03655	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.16831	-4.3e-15	-0.04076	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.19236	-4.3e-15	-0.04659	-1.4e-21
4S	0.051669	-0.00340	0.	0.000772	0.	0.000260
5S	2.57e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	2.57e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.160765	-0.02901	2.19e-19	0.006578	-8.7e-20	0.002211
2D	1.109086	0.063023	-4.7e-19	-0.01429	-1.3e-19	-0.00480
3D	0.210584	0.457349	-1.6e-19	-0.12069	-4.6e-20	0.026143
4D	-0.21058	0.648764	-2.0e-20	-0.16697	6.52e-21	-0.02614
5D	1.039801	-0.02570	1.84e-19	0.005828	-7.5e-20	0.001959
6D	0.992950	0.055764	-4.2e-19	-0.01265	-1.2e-19	-0.00425
7D	0.175766	0.381736	-1.3e-19	-0.10074	-3.8e-20	0.021821
8D	-0.17577	0.541505	-1.7e-20	-0.13936	5.44e-21	-0.02182
9D	2.645945	-0.06392	-4.0e-19	0.014497	-1.8e-19	0.004872
10D	2.527832	0.138533	-1.1e-18	-0.03142	-3.0e-19	-0.01056
11D	0.372987	0.810083	-2.8e-19	-0.21378	-7.9e-20	0.046307
12D	-0.37299	1.149131	-3.7e-20	-0.29575	1.13e-20	-0.04631

**Nodo 17**

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.34e-19	-0.19548	4.71e-15	-0.04518	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.25138	8.70e-15	-0.05857	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.28729	8.70e-15	-0.06694	-1.4e-21
4S	0.049857	-0.00340	0.	0.000772	0.	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	0.	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.146751	-0.02901	1.61e-16	0.006578	4.37e-17	0.002211
2D	1.139073	0.063023	-6.2e-17	-0.01429	-1.7e-17	-0.00480
3D	0.028287	0.457349	-4.1e-16	-0.12069	-1.0e-16	0.026143
4D	-0.02829	0.648764	5.33e-17	-0.16697	1.33e-17	-0.02614
5D	1.027238	-0.02570	1.41e-16	0.005828	3.84e-17	0.001959
6D	1.019847	0.055764	-5.2e-17	-0.01265	-1.4e-17	-0.00425
7D	0.023633	0.381736	-3.4e-16	-0.10074	-8.5e-17	0.021821
8D	-0.02363	0.541505	4.45e-17	-0.13936	1.11e-17	-0.02182
9D	2.613918	-0.06392	3.41e-16	0.014497	9.30e-17	0.004872
10D	2.596584	0.138533	-1.1e-16	-0.03142	-2.9e-17	-0.01056
11D	0.050319	0.810083	-7.0e-16	-0.21378	-1.8e-16	0.046307
12D	-0.05032	1.149131	9.30e-17	-0.29575	2.31e-17	-0.04631

Nodo 18

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.34e-19	-0.12008	-1.8e-16	-0.02639	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.14242	4.08e-18	-0.03165	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.16277	4.08e-18	-0.03617	-1.4e-21
4S	0.047592	-0.00340	0.	0.000772	0.	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.129287	-0.02901	-1.2e-16	0.006578	-3.4e-17	0.002211
2D	1.176826	0.063023	2.12e-16	-0.01429	6.28e-17	-0.00480
3D	-0.20014	0.457349	-5.6e-19	-0.12069	-1.4e-19	0.026143
4D	0.200144	0.648764	-4.1e-18	-0.16697	-1.3e-18	-0.02614
5D	1.011575	-0.02570	-1.1e-16	0.005828	-3.0e-17	0.001959
6D	1.053677	0.055764	1.85e-16	-0.01265	5.50e-17	-0.00425
7D	-0.16706	0.381736	-4.7e-19	-0.10074	-1.2e-19	0.021821
8D	0.167064	0.541505	-3.3e-18	-0.13936	-1.1e-18	-0.02182
9D	2.573956	-0.06392	-2.8e-16	0.014497	-7.7e-17	0.004872
10D	2.682895	0.138533	4.42e-16	-0.03142	1.33e-16	-0.01056
11D	-0.35459	0.810083	-9.8e-19	-0.21378	-2.4e-19	0.046307
12D	0.354591	1.149131	-6.6e-18	-0.29575	-2.2e-18	-0.04631

Nodo 20

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.30e-19	-0.00474	-7.9e-18	-7.3e-19	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.00514	-2.9e-18	-8.1e-20	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.00587	-2.9e-18	-8.1e-20	-1.4e-21
4S	0.051669	-0.00279	0.	0.000772	0.014324	0.000260
5S	2.57e-13	0.063030	0.	-0.01747	7.13e-14	3.40e-14
6S	2.57e-13	-0.05056	0.	0.014017	7.13e-14	3.40e-14
1D	1.160765	-0.02373	-3.0e-21	0.006578	0.321807	0.002211
2D	1.109086	0.051564	-3.7e-21	-0.01429	0.307482	-0.00480
3D	0.210584	0.435349	-1.2e-21	-0.12069	0.058370	0.026143
4D	-0.21058	0.602296	-2.8e-22	-0.16697	-0.05837	-0.02614
5D	1.039801	-0.02103	-2.7e-21	0.005828	0.288271	0.001959
6D	0.992950	0.045625	-3.3e-21	-0.01265	0.275285	-0.00425
7D	0.175766	0.363373	-9.6e-22	-0.10074	0.048719	0.021821
8D	-0.17577	0.502719	-2.3e-22	-0.13936	-0.04872	-0.02182
9D	2.645945	-0.05230	-6.7e-21	0.014497	0.733553	0.004872
10D	2.527832	0.113345	-8.5e-21	-0.03142	0.700815	-0.01056
11D	0.372987	0.771116	-2.0e-21	-0.21378	0.103385	0.046307
12D	-0.37299	1.066823	-5.1e-22	-0.29575	-0.10339	-0.04631

Nodo 22

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.30e-19	-0.00704	7.41e-18	-7.3e-19	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.00874	1.81e-17	-7.9e-20	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.00999	1.81e-17	-7.9e-20	-1.4e-21
4S	0.049857	-0.00279	0.	0.000772	0.013822	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	5.48e-15	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	5.49e-15	3.40e-14
1D	1.146751	-0.02373	1.26e-18	0.006578	0.317923	0.002211
2D	1.139073	0.051564	-2.5e-18	-0.01429	0.315794	-0.00480
3D	0.028287	0.435349	-3.2e-18	-0.12069	0.007842	0.026143
4D	-0.02829	0.602296	4.93e-19	-0.16697	-0.00784	-0.02614
5D	1.027238	-0.02103	1.06e-18	0.005828	0.284789	0.001959
6D	1.019847	0.045625	-2.2e-18	-0.01265	0.282740	-0.00425
7D	0.023633	0.363373	-2.7e-18	-0.10074	0.006552	0.021821

8D	-0.02363	0.502719	4.11e-19	-0.13936	-0.00655	-0.02182
9D	2.613918	-0.05230	-2.3e-18	0.014497	0.724676	0.004872
10D	2.596584	0.113345	-5.3e-18	-0.03142	0.719871	-0.01056
11D	0.050319	0.771116	-5.5e-18	-0.21378	0.013950	0.046307
12D	-0.05032	1.066823	8.55e-19	-0.29575	-0.01395	-0.04631

Nodo 24

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.30e-19	-0.00476	-4.6e-19	-7.2e-19	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.00541	4.08e-18	-7.5e-20	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.00618	4.08e-18	-7.5e-20	-1.4e-21
4S	0.047592	-0.00279	0.	0.000772	0.013194	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	-7.7e-14	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	-7.7e-14	3.40e-14
1D	1.129287	-0.02373	-9.5e-19	0.006578	0.313082	0.002211
2D	1.176826	0.051564	-1.8e-18	-0.01429	0.326258	-0.00480
3D	-0.20014	0.435349	-4.0e-21	-0.12069	-0.05548	0.026143
4D	0.200144	0.602296	-3.8e-20	-0.16697	0.055476	-0.02614
5D	1.011575	-0.02103	-8.5e-19	0.005828	0.280448	0.001959
6D	1.053677	0.045625	1.56e-18	-0.01265	0.292117	-0.00425
7D	-0.16706	0.363373	-3.4e-21	-0.10074	-0.04631	0.021821
8D	0.167064	0.502719	-3.1e-20	-0.13936	0.046307	-0.02182
9D	2.573956	-0.05230	-2.2e-18	0.014497	0.713599	0.004872
10D	2.682895	0.113345	3.67e-18	-0.03142	0.743795	-0.01056
11D	-0.35459	0.771116	-7.0e-21	-0.21378	-0.09829	0.046307
12D	0.354591	1.066823	-6.2e-20	-0.29575	0.098285	-0.04631

Nodo 25

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.27e-19	-0.15205	-2.3e-15	0.036849	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.16911	-2.2e-15	0.041098	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.19327	-2.2e-15	0.046969	-1.4e-21
4S	0.051669	-0.00217	0.	0.000601	0.	0.000260
5S	2.57e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	2.57e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.160765	-0.01846	-6.1e-20	0.005117	1.74e-20	0.002211
2D	1.109086	0.040105	-6.1e-20	-0.01112	9.34e-21	-0.00480
3D	0.210584	0.421506	-1.8e-21	-0.11686	-3.4e-22	0.026143
4D	-0.21058	0.558930	8.57e-21	-0.15495	-1.5e-21	-0.02614
5D	1.039801	-0.01635	-5.5e-20	0.004533	1.55e-20	0.001959
6D	0.992950	0.035486	-5.4e-20	-0.00984	8.27e-21	-0.00425
7D	0.175766	0.351819	-1.5e-21	-0.09754	-2.9e-22	0.021821
8D	-0.17577	0.466523	7.67e-21	-0.12933	-1.3e-21	-0.02182
9D	2.645945	-0.04068	-1.4e-19	0.011276	3.88e-20	0.004872
10D	2.527832	0.088157	-1.4e-19	-0.02444	2.05e-20	-0.01056
11D	0.372987	0.746596	-3.1e-21	-0.20698	-6.2e-22	0.046307
12D	-0.37299	0.990011	1.95e-20	-0.27446	-2.9e-21	-0.04631

Nodo 26

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.27e-19	-0.22940	2.45e-15	0.055900	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.28968	4.36e-15	0.070680	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.33106	4.36e-15	0.080777	-1.4e-21
4S	0.049857	-0.00217	0.	0.000601	0.	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	0.	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.146751	-0.01846	-1.2e-16	0.005117	2.83e-17	0.002211
2D	1.139073	0.040105	-3.0e-16	-0.01112	3.89e-17	-0.00480
3D	0.028287	0.421506	-1.1e-17	-0.11686	1.81e-18	0.026143
4D	-0.02829	0.558930	3.38e-18	-0.15495	-9.2e-19	-0.02614
5D	1.027238	-0.01635	-9.5e-17	0.004533	2.32e-17	0.001959
6D	1.019847	0.035486	-2.7e-16	-0.00984	3.42e-17	-0.00425
7D	0.023633	0.351819	-9.3e-18	-0.09754	1.51e-18	0.021821
8D	-0.02363	0.466523	2.80e-18	-0.12933	-7.7e-19	-0.02182
9D	2.613918	-0.04068	-1.9e-16	0.011276	4.63e-17	0.004872
10D	2.596584	0.088157	-6.7e-16	-0.02444	8.31e-17	-0.01056
11D	0.050319	0.746596	-2.0e-17	-0.20698	3.22e-18	0.046307
12D	-0.05032	0.990011	5.62e-18	-0.27446	1.57e-18	-0.04631

Nodo 27

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.27e-19	-0.15935	-4.1e-19	0.038759	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.18558	4.08e-18	0.045245	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.21209	4.08e-18	0.051708	-1.4e-21
4S	0.047592	-0.00217	0.	0.000601	0.	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.129287	-0.01846	-1.9e-18	0.005117	3.42e-21	0



3D	-0.20014	0.421506	-4.7e-21	-0.11686	-1.3e-21	0.026143
4D	0.200144	0.558930	-1.6e-19	-0.15495	1.08e-19	-0.02614
5D	1.011575	-0.01635	-1.7e-18	0.004533	2.80e-21	0.001959
6D	1.053677	0.035486	6.20e-18	-0.00984	1.90e-19	-0.00425
7D	-0.16706	0.351819	-3.9e-21	-0.09754	-1.1e-21	0.021821
8D	0.167064	0.466523	-1.3e-19	-0.12933	9.67e-20	-0.02182
9D	2.573956	-0.04068	-4.3e-18	0.011276	5.53e-21	0.004872
10D	2.682895	0.088157	1.55e-17	-0.02444	4.20e-19	-0.01056
11D	-0.35459	0.746596	-8.0e-21	-0.20698	-2.3e-21	0.046307
12D	0.354591	0.990011	-2.8e-19	-0.27446	2.45e-19	-0.04631

Nodo 28

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	6.24e-19	-0.15205	-2.3e-15	-0.03685	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.16911	-2.2e-15	-0.04110	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.19327	-2.2e-15	-0.04697	-1.4e-21
4S	0.051669	-0.00155	0.	0.000429	0.	0.000260
5S	2.57e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	2.57e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.160765	-0.01318	-3.4e-20	0.003655	-2.5e-20	0.002211
2D	1.109086	0.028647	1.89e-20	-0.00794	-3.8e-21	-0.00480
3D	0.210584	0.416633	-9.7e-22	-0.11551	-6.7e-22	0.026143
4D	-0.21058	0.519445	1.31e-20	-0.14401	2.00e-22	-0.02614
5D	1.039801	-0.01168	-2.9e-20	0.003238	-2.3e-20	0.001959
6D	0.992950	0.025347	1.65e-20	-0.00703	-3.1e-21	-0.00425
7D	0.175766	0.347752	-8.1e-22	-0.09641	-5.6e-22	0.021821
8D	-0.17577	0.433566	1.17e-20	-0.12020	1.65e-22	-0.02182
9D	2.645945	-0.02906	-7.2e-20	0.008054	-5.7e-20	0.004872
10D	2.527832	0.062969	3.90e-20	-0.01746	-6.2e-21	-0.01056
11D	0.372987	0.737965	-1.6e-21	-0.20459	-1.2e-21	0.046307
12D	-0.37299	0.920072	2.97e-20	-0.25507	3.30e-22	-0.04631

Nodo 29

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	6.24e-19	-0.22948	2.45e-15	-0.05584	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.28976	4.36e-15	-0.07061	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.33116	4.36e-15	-0.08070	-1.4e-21
4S	0.049857	-0.00155	0.	0.000429	0.	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	0.	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.146751	-0.01318	-1.3e-16	0.003655	-2.9e-17	0.002211
2D	1.139073	0.028647	-2.4e-16	-0.00794	-4.4e-17	-0.00480
3D	0.028287	0.416633	-9.7e-18	-0.11551	-3.2e-18	0.026143
4D	-0.02829	0.519445	-3.5e-18	-0.14401	-1.6e-18	-0.02614
5D	1.027238	-0.01168	-1.1e-16	0.003238	-2.4e-17	0.001959
6D	1.019847	0.025347	-2.1e-16	-0.00703	-3.9e-17	-0.00425
7D	0.023633	0.347752	-8.1e-18	-0.09641	-2.7e-18	0.021821
8D	-0.02363	0.433566	-2.9e-18	-0.12020	-1.3e-18	-0.02182
9D	2.613918	-0.02906	-2.3e-16	0.008054	-4.9e-17	0.004872
10D	2.596584	0.062969	-5.4e-16	-0.01746	-9.5e-17	-0.01056
11D	0.050319	0.737965	-1.7e-17	-0.20459	-5.7e-18	0.046307
12D	-0.05032	0.920072	-6.0e-18	-0.25507	-2.7e-18	-0.04631

Nodo 30

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	6.24e-19	-0.15944	-3.6e-19	-0.03869	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.18567	4.08e-18	-0.04516	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.21220	4.08e-18	-0.05162	-1.4e-21
4S	0.047592	-0.00155	0.	0.000429	0.	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.129287	-0.01318	-9.6e-21	0.003655	-1.6e-18	0.002211
2D	1.176826	0.028647	4.61e-18	-0.00794	1.18e-18	-0.00480
3D	-0.20014	0.416633	-2.8e-21	-0.11551	-9.5e-22	0.026143
4D	0.200144	0.519445	-3.8e-19	-0.14401	2.18e-19	-0.02614
5D	1.011575	-0.01168	-7.9e-21	0.003238	-1.4e-18	0.001959
6D	1.053677	0.025347	4.08e-18	-0.00703	1.04e-18	-0.00425
7D	-0.16706	0.347752	-2.3e-21	-0.09641	-7.9e-22	0.021821
8D	0.167064	0.433566	-3.4e-19	-0.12020	1.94e-19	-0.02182
9D	2.573956	-0.02906	-1.6e-20	0.008054	-3.6e-18	0.004872
10D	2.682895	0.062969	1.01e-17	-0.01746	2.55e-18	-0.01056
11D	-0.35459	0.737965	-4.7e-21	-0.20459	-1.6e-21	0.046307
12D	0.354591	0.920072	-8.7e-19	-0.25507	4.91e-19	-0.04631

Nodo 32

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	6.20e-19	-0.00474	-5.9e-18	-7.3e-19	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.00514	-1.2e-18	-8.1e-20	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.00587	-1.2e-18	-8.1e-20	-1.4e-21

4S	0.051669	-0.00093	0.	0.000257	0.014324	0.000260
5S	2.57e-13	0.063030	0.	-0.01747	7.13e-14	3.40e-14
6S	2.57e-13	-0.05056	0.	0.014017	7.13e-14	3.40e-14
1D	1.160765	-0.00791	-9.3e-22	0.002193	0.321807	0.002211
2D	1.109086	0.017188	2.70e-22	-0.00477	0.307482	-0.00480
3D	0.210584	0.421042	-1.1e-22	-0.11673	0.058370	0.026143
4D	-0.21058	0.484789	-1.0e-22	-0.13440	-0.05837	-0.02614
5D	1.039801	-0.00701	-8.3e-22	0.001943	0.288271	0.001959
6D	0.992950	0.015208	2.34e-22	-0.00422	0.275285	-0.00425
7D	0.175766	0.351432	-8.9e-23	-0.09743	0.048719	0.021821
8D	-0.17577	0.404639	-8.6e-23	-0.11218	-0.04872	-0.02182
9D	2.645945	-0.01743	-2.1e-21	0.004833	0.733553	0.004872
10D	2.527832	0.037782	5.47e-22	-0.01047	0.700815	-0.01056
11D	0.372987	0.745775	-1.9e-22	-0.20676	0.103385	0.046307
12D	-0.37299	0.858688	-1.7e-22	-0.23806	-0.10339	-0.04631

Nodo 34

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	6.20e-19	-0.00726	5.59e-18	-7.3e-19	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.00899	1.46e-17	-7.9e-20	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.01028	1.46e-17	-7.9e-20	-1.4e-21
4S	0.049857	-0.00093	0.	0.000257	0.013822	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	5.48e-15	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	5.49e-15	3.40e-14
1D	1.146751	-0.00791	-8.7e-19	0.002193	0.317923	0.002211
2D	1.139073	0.017188	-2.6e-18	-0.00477	0.315794	-0.00480
3D	0.028287	0.421042	9.55e-19	-0.11673	0.007842	0.026143
4D	-0.02829	0.484789	-1.2e-18	-0.13440	-0.00784	-0.02614
5D	1.027238	-0.00701	-7.8e-19	0.001943	0.284789	0.001959
6D	1.019847	0.015208	-2.3e-18	-0.00422	0.282740	-0.00425
7D	0.023633	0.351432	7.92e-19	-0.09743	0.006552	0.021821
8D	-0.02363	0.404639	-9.8e-19	-0.11218	-0.00655	-0.02182
9D	2.613918	-0.01743	-2.0e-18	0.004833	0.724676	0.004872
10D	2.596584	0.037782	5.10e-18	-0.01047	0.719871	-0.01056
11D	0.050319	0.745775	1.62e-18	-0.20676	0.013950	0.046307
12D	-0.05032	0.858688	-2.0e-18	-0.23806	-0.01395	-0.04631

Nodo 36

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	6.20e-19	-0.00502	-3.1e-19	-7.2e-19	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.00570	4.08e-18	-7.5e-20	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.00651	4.08e-18	-7.5e-20	-1.4e-21
4S	0.047592	-0.00093	0.	0.000257	0.013194	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	-7.7e-14	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	-7.7e-14	3.40e-14
1D	1.129287	-0.00791	-4.4e-20	0.002193	0.313082	0.002211
2D	1.176826	0.017188	4.67e-20	-0.00477	0.326258	-0.00480
3D	-0.20014	0.421042	1.30e-22	-0.11673	-0.05548	0.026143
4D	0.200144	0.484789	3.16e-21	-0.13440	0.055476	-0.02614
5D	1.011575	-0.00701	-4.0e-20	0.001943	0.280448	0.001959
6D	1.053677	0.015208	4.15e-20	-0.00422	0.292117	-0.00425
7D	-0.16706	0.351432	1.08e-22	-0.09743	-0.04631	0.021821
8D	0.167064	0.404639	2.81e-21	-0.11218	0.046307	-0.02182
9D	2.573956	-0.01743	-1.0e-19	0.004833	0.713599	0.004872
10D	2.682895	0.037782	1.04e-19	-0.01047	0.743795	-0.01056
11D	-0.35459	0.745775	2.28e-22	-0.20676	-0.09829	0.046307
12D	0.354591	0.858688	7.04e-21	-0.23806	0.098285	-0.04631

Nodo 37

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	6.17e-19	-0.15205	-2.3e-15	0.036849	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.16911	-2.2e-15	0.041097	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.19327	-2.2e-15	0.046969	-1.4e-21
4S	0.051669	-0.00031	0.	8.58e-05	0.	0.000260
5S	2.57e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	2.57e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.160765	-0.00264	3.56e-19	0.000731	-6.7e-20	0.002211
2D	1.109086	0.005729	4.28e-20	-0.00159	-3.2e-20	-0.00480
3D	0.210584	0.434451	2.60e-20	-0.12045	5.62e-21	0.026143
4D	-0.21058	0.456065	3.43e-20	-0.12644	6.85e-21	-0.02614
5D	1.039801	-0.00234	3.19e-19	0.000648	-6.0e-20	0.001959
6D	0.992950	0.005069	3.79e-20	-0.00141	-2.9e-20	-0.00425
7D	0.175766	0.362623	2.16e-20	-0.10053	4.67e-21	0.021821
8D	-0.17577	0.380664	2.86e-20	-0.10553	5.69e-21	-0.02182
9D	2.645945	-0.00581	8.12e-19	0.001611	-1.5e-19	0.004872
10D	2.527832	0.012594	9.39e-20	-0.00349	-7.2e-20	-0.01056
11D	0.372987	0.769524	4.54e-20	-0.21334	9.65e-21	0.046307
12D	-0.37299	0.807899	9.9e-20	-0.22396	1.17e-20	-0.04631

**Nodo 38**

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.17e-19	-0.22955	2.45e-15	0.055868	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.28985	4.36e-15	0.070644	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.33125	4.36e-15	0.080736	-1.4e-21
4S	0.049857	-0.00031	0.	8.58e-05	0.	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	0.	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.146751	-0.00264	1.17e-16	0.000731	-2.9e-17	0.002211
2D	1.139073	0.005729	3.56e-16	-0.00159	-1.3e-16	-0.00480
3D	0.028287	0.434451	-1.1e-16	-0.12045	-2.6e-17	0.026143
4D	-0.02829	0.456065	-1.1e-16	-0.12644	2.75e-17	-0.02614
5D	1.027238	-0.00234	9.80e-17	0.000648	-2.4e-17	0.001959
6D	1.019847	0.005069	3.16e-16	-0.00141	-1.1e-16	-0.00425
7D	0.023633	0.362623	-8.8e-17	-0.10053	2.20e-17	0.021821
8D	-0.02363	0.380664	-8.9e-17	-0.10553	2.27e-17	-0.02182
9D	2.613918	0.006581	2.99e-16	0.001611	-5.2e-17	0.004872
10D	2.596584	0.012594	7.92e-16	-0.00349	-2.9e-16	-0.01056
11D	0.050319	0.769524	-1.8e-16	-0.21334	4.51e-17	0.046307
12D	-0.05032	0.807809	-1.8e-16	-0.22396	4.58e-17	-0.04631

Nodo 39

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.17e-19	-0.15952	-3.1e-19	0.038722	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.18577	4.08e-18	0.045205	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.21231	4.08e-18	0.051662	-1.4e-21
4S	0.047592	-0.00031	0.	8.58e-05	0.	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.129287	-0.00264	9.07e-21	0.000731	-8.9e-21	0.002211
2D	1.176826	0.005729	-9.5e-19	-0.00159	5.31e-19	-0.00480
3D	-0.20014	0.434451	3.09e-20	-0.12045	-3.9e-21	0.026143
4D	0.200144	0.456065	4.14e-20	-0.12644	-6.0e-21	-0.02614
5D	1.011575	-0.00234	7.41e-21	0.000648	-7.9e-21	0.001959
6D	1.053677	0.005069	-8.5e-19	-0.00141	4.75e-19	-0.00425
7D	-0.16706	0.362623	2.55e-20	-0.10053	-3.3e-21	0.021821
8D	0.167064	0.380664	3.53e-20	-0.10553	-5.0e-21	-0.02182
9D	2.573956	-0.00581	1.46e-20	0.001611	-2.0e-20	0.004872
10D	2.682895	0.012594	-2.2e-18	-0.00349	1.21e-18	-0.01056
11D	-0.35459	0.769524	5.37e-20	-0.21334	-7.3e-21	0.046307
12D	0.354591	0.807809	-8.0e-20	-0.22396	-1.1e-20	-0.04631

Nodo 40

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.14e-19	-0.15205	-2.3e-15	-0.03685	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.16911	-2.2e-15	-0.04110	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.19327	-2.2e-15	-0.04697	-1.4e-21
4S	0.051669	0.000310	0.	-8.6e-05	0.	0.000260
5S	2.57e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	2.57e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.160765	0.002637	1.20e-19	-0.00073	3.36e-20	0.002211
2D	1.109086	-0.00573	9.24e-20	0.001588	8.35e-21	-0.00480
3D	0.210584	0.456065	-2.0e-20	-0.12644	-8.6e-21	0.026143
4D	-0.21058	0.434450	-1.6e-20	-0.12045	1.06e-20	-0.02614
5D	1.039801	0.002336	1.07e-19	-0.00065	3.00e-20	0.001959
6D	0.992950	-0.00507	8.26e-20	0.001405	7.27e-21	-0.00425
7D	0.175766	0.380664	-1.6e-20	-0.10553	-7.2e-21	0.021821
8D	-0.17577	0.362623	-1.3e-20	-0.10053	8.86e-21	-0.02182
9D	2.645945	0.005811	2.72e-19	-0.00161	7.61e-20	0.004872
10D	2.527832	-0.01259	2.09e-19	0.003492	1.71e-20	-0.01056
11D	0.372987	0.807809	-3.4e-20	-0.22396	-1.5e-20	0.046307
12D	-0.37299	0.769524	-2.6e-20	-0.21334	1.86e-20	-0.04631

Nodo 41

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.14e-19	-0.22955	2.45e-15	-0.05587	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.28985	4.36e-15	-0.07064	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.33125	4.36e-15	-0.08074	-1.4e-21
4S	0.049857	0.000310	0.	-8.6e-05	0.	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	0.	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.146751	0.002637	1.06e-16	-0.00073	2.69e-17	0.002211
2D	1.139073	-0.00573	4.88e-16	0.001588	1.02e-16	-0.00480
3D	0.028287	0.456065	9.43e-17	-0.12644	-3.1e-17	0.026143
4D	-0.02829	0.434450	1.77e-16	-0.12045	-2.7e-17	-0.02614
5D	1.027238	0.002336	8.67e-17	-0.00065	2.21e-17	0.001959
6D	1.019847	-0.00507	4.36e-16	0.001405	9.05e-17	-0.00425
7D	0.023633	0.380664	7.81e-17	-0.10553	-2.6e-17	0.021821

8D	-0.02363	0.362623	1.47e-16	-0.10053	-2.2e-17	-0.02182
9D	2.613918	0.005811	1.73e-16	-0.00161	4.47e-17	0.004872
10D	2.596584	-0.01259	1.10e-15	0.003492	2.27e-16	-0.01056
11D	0.050319	0.807809	1.59e-16	-0.22396	-5.3e-17	0.046307
12D	-0.05032	0.769524	3.07e-16	-0.21334	-4.4e-17	-0.04631

Nodo 42

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.14e-19	-0.15952	-3.1e-19	-0.03872	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.18577	4.08e-18	-0.04520	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.21231	4.08e-18	-0.05166	-1.4e-21
4S	0.047592	0.000310	0.	-8.6e-05	0.	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.129287	0.002637	-6.0e-20	-0.00073	-8.9e-21	0.002211
2D	1.176826	-0.00573	-1.3e-19	0.001588	-1.8e-20	-0.00480
3D	-0.20014	0.456065	2.99e-20	-0.12644	5.15e-21	0.026143
4D	0.200144	0.434450	4.49e-20	-0.12045	-5.5e-21	-0.02614
5D	1.011575	0.002336	-5.4e-20	-0.00065	-7.9e-21	0.001959
6D	1.053677	-0.00507	-1.1e-19	0.001405	-1.5e-20	-0.00425
7D	-0.16706	0.380664	2.54e-20	-0.10553	4.28e-21	0.021821
8D	0.167064	0.362623	3.82e-20	-0.10053	-4.7e-21	-0.02182
9D	2.573956	0.005811	-1.4e-19	-0.00161	-2.0e-20	0.004872
10D	2.682895	-0.01259	-2.3e-19	0.003492	-3.0e-20	-0.01056
11D	-0.35459	0.807809	5.67e-20	-0.22396	8.87e-21	0.046307
12D	0.354591	0.769524	8.57e-20	-0.21334	-1.0e-20	-0.04631

Nodo 44

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.10e-19	-0.00474	-5.9e-18	-1.1e-18	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.00514	-1.2e-18	-4.0e-19	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.00587	-1.2e-18	-4.0e-19	-1.4e-21
4S	0.051669	0.000929	0.	-0.00026	0.014324	0.000260
5S	2.57e-13	0.063030	0.	-0.01747	7.13e-14	3.40e-14
6S	2.57e-13	-0.05056	0.	0.014017	7.13e-14	3.40e-14
1D	1.160765	0.007911	3.71e-21	-0.00029	0.321807	0.002211
2D	1.109086	-0.01719	-2.1e-22	0.004765	0.307482	-0.00480
3D	0.210584	0.484789	7.74e-23	-0.13440	0.058370	0.026143
4D	-0.21058	0.421042	-1.1e-22	-0.11673	-0.05837	-0.02614
5D	1.039801	0.007008	3.32e-21	-0.00194	0.288271	0.001959
6D	0.992950	-0.01521	-1.8e-22	0.004216	0.275285	-0.00425
7D	0.175766	0.404639	6.39e-23	-0.11218	0.048719	0.021821
8D	-0.17577	0.351432	-9.5e-23	-0.09743	-0.04872	-0.02182
9D	2.645945	0.017433	8.45e-21	-0.00483	0.733553	0.004872
10D	2.527832	-0.03778	-3.8e-22	0.010474	-0.000815	-0.01056
11D	0.372987	0.858688	1.27e-22	-0.23806	0.103385	0.046307
12D	-0.37299	0.745775	-1.9e-22	-0.20676	-0.10339	-0.04631

Nodo 46

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.10e-19	-0.00726	5.59e-18	-8.0e-19	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.00899	1.46e-17	-7.9e-20	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.01028	1.46e-17	-7.9e-20	-1.4e-21
4S	0.049857	0.000929	0.	-0.00026	0.013822	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	5.48e-15	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	5.49e-15	3.40e-14
1D	1.146751	0.007911	-1.1e-18	-0.00029	0.317923	0.002211
2D	1.139073	-0.01719	-2.6e-18	0.004765	0.315794	-0.00480
3D	0.028287	0.484789	1.48e-18	-0.13440	0.007842	0.026143
4D	-0.02829	0.421042	-1.2e-18	-0.11673	-0.00784	-0.02614
5D	1.027238	0.007008	-9.7e-19	-0.00194	0.284789	0.001959
6D	1.019847	-0.01521	-2.2e-18	0.004216	0.282740	-0.00425
7D	0.023633	0.404639	1.23e-18	-0.11218	0.006552	0.021821
8D	-0.02363	0.351432	-9.8e-19	-0.09743	-0.00655	-0.02182
9D	2.613918	0.017433	-2.4e-18	-0.00483	0.724676	0.004872
10D	2.596584	-0.03778	4.90e-18	0.010474	0.719871	-0.01056
11D	0.050319	0.858688	2.56e-18	-0.23806	0.013950	0.046307
12D	-0.05032	0.745775	-2.0e-18	-0.20676	-0.01395	-0.04631

Nodo 48

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	6.10e-19	-0.00502	-3.1e-19	-9.6e-19	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.00570	4.08e-18	-2.3e-19	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.00651	4.08e-18	-2.3e-19	-1.4e-21
4S	0.047592	0.000929	0.	-0.00026	0.013194	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	-7.7e-14	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	-7.7e-14	3.40e-14
1D	1.129287	0.007911	-1.5e-20	-0.00219	0.313082	0.002211
2D	1.176826	-0.01719	5.22e-20	0.004765	0.326258	-0.00480



3D	-0.20014	0.484789	-3.7e-22	-0.13440	-0.05548	0.026143
4D	0.200144	0.421042	-2.2e-22	-0.11673	0.055476	-0.02614
5D	1.011575	0.007008	-1.3e-20	-0.00194	0.280448	0.001959
6D	1.053677	-0.01521	4.57e-20	0.004216	0.292117	-0.00425
7D	-0.16706	0.404639	-3.1e-22	-0.11218	-0.04631	0.021821
8D	0.167064	0.351432	-1.9e-22	-0.09743	0.046307	-0.02182
9D	2.573956	0.017433	-3.4e-20	-0.00483	0.713599	0.004872
10D	2.682895	-0.03778	1.11e-19	0.010474	0.743795	-0.01056
11D	-0.35459	0.858688	6.35e-22	-0.23806	-0.09829	0.046307
12D	0.354591	0.745775	-4.6e-22	-0.20676	0.098285	-0.04631

Nodo 49

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	6.07e-19	-0.15205	-2.3e-15	0.036849	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.16911	-2.2e-15	0.041097	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.19327	-2.2e-15	0.046968	-1.4e-21
4S	0.051669	0.001548	0.	-0.00043	0.	0.000260
5S	2.57e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	2.57e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.160765	0.013184	9.49e-19	-0.00365	3.22e-21	0.002211
2D	1.109086	-0.02865	-7.2e-20	0.007941	1.54e-20	-0.00480
3D	0.210584	0.519445	-7.9e-21	-0.14401	1.54e-21	0.026143
4D	-0.21058	0.416633	-1.9e-21	-0.11551	3.85e-21	-0.02614
5D	1.039801	0.011681	8.50e-19	-0.00324	2.63e-21	0.001959
6D	0.992950	-0.02535	-6.4e-20	0.007026	1.37e-20	-0.00425
7D	0.175766	0.433566	-6.6e-21	-0.12020	1.29e-21	0.021821
8D	-0.17577	0.347752	-1.6e-21	-0.09641	3.22e-21	-0.02182
9D	2.645945	0.029055	2.16e-18	-0.00805	5.19e-21	0.004872
10D	2.527832	-0.06297	-1.6e-19	0.017456	3.42e-20	-0.01056
11D	0.372987	0.920073	-1.4e-20	-0.25507	2.73e-21	0.046307
12D	-0.37299	0.737965	-3.3e-21	-0.20459	6.82e-21	-0.04631

Nodo 50

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	6.07e-19	-0.22948	2.45e-15	0.055837	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.28976	4.36e-15	0.070609	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.33116	4.36e-15	0.080696	-1.4e-21
4S	0.049857	0.001548	0.	-0.00043	0.	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	0.	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.146751	0.013184	-7.2e-17	-0.00365	1.71e-17	0.002211
2D	1.139073	-0.02865	-2.8e-16	0.007941	1.16e-16	-0.00480
3D	0.028287	0.519445	-6.3e-18	-0.14401	1.51e-18	0.026143
4D	-0.02829	0.416633	6.79e-18	-0.11551	1.44e-18	-0.02614
5D	1.027238	0.011681	-6.0e-17	-0.00324	1.40e-17	0.001959
6D	1.019847	-0.02535	-2.5e-16	0.007026	1.04e-16	-0.00425
7D	0.023633	0.433566	-5.3e-18	-0.12020	1.26e-18	0.021821
8D	-0.02363	0.347752	5.63e-18	-0.09641	1.20e-18	-0.02182
9D	2.613918	0.029055	-1.3e-16	-0.00805	2.81e-17	0.004872
10D	2.596584	-0.06297	-6.3e-16	0.017456	2.62e-16	-0.01056
11D	0.050319	0.920073	-1.1e-17	-0.25507	2.63e-18	0.046307
12D	-0.05032	0.737965	1.15e-17	-0.20459	2.44e-18	-0.04631

Nodo 51

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	6.07e-19	-0.15944	-3.6e-19	0.038686	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.18567	4.08e-18	0.045165	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.21220	4.08e-18	0.051617	-1.4e-21
4S	0.047592	0.001548	0.	-0.00043	0.	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.129287	0.013184	-5.6e-21	-0.00365	5.31e-19	0.002211
2D	1.176826	-0.02865	3.65e-18	0.007941	-9.8e-19	-0.00480
3D	-0.20014	0.519445	1.27e-19	-0.14401	-6.8e-20	0.026143
4D	0.200144	0.416633	-3.3e-21	-0.11551	-6.6e-22	-0.02614
5D	1.011575	0.011681	-4.6e-21	-0.00324	4.76e-19	0.001959
6D	1.053677	-0.02535	3.05e-18	0.007026	-8.1e-19	-0.00425
7D	-0.16706	0.433566	1.11e-19	-0.12020	-6.1e-20	0.021821
8D	0.167064	0.347752	-2.8e-21	-0.09641	-5.5e-22	-0.02182
9D	2.573956	0.029055	-9.1e-21	-0.00805	1.21e-18	0.004872
10D	2.682895	-0.06297	6.35e-18	0.017456	-1.6e-18	-0.01056
11D	-0.35459	0.920073	2.63e-19	-0.25507	-1.5e-19	0.046307
12D	0.354591	0.737965	-5.8e-21	-0.20459	-1.1e-21	-0.04631

Nodo 52

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	6.04e-19	-0.15205	-2.3e-15	-0.03685	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.16911	-2.2e-15	-0.04110	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.19327	-2.2e-15	-0.04697	-1.4e-21

4S	0.051669	0.002167	0.	-0.00060	0.	0.000260
5S	2.57e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	2.57e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.160765	0.018458	2.37e-19	-0.00512	1.33e-19	0.002211
2D	1.109086	-0.04011	-6.5e-20	0.011117	-1.6e-20	-0.00480
3D	0.210584	0.558930	-1.6e-20	-0.15495	-2.4e-21	0.026143
4D	-0.21058	0.421506	-3.9e-21	-0.11686	-1.6e-21	-0.02614
5D	1.039801	0.016353	2.13e-19	-0.00453	1.19e-19	0.001959
6D	0.992950	-0.03549	-5.8e-20	0.009837	-1.4e-20	-0.00425
7D	0.175766	0.466523	-1.4e-20	-0.12933	-2.0e-21	0.021821
8D	-0.17577	0.351819	-3.3e-21	-0.09754	-1.3e-21	-0.02182
9D	2.645945	0.040678	5.41e-19	-0.01128	3.03e-19	0.004872
10D	2.527832	-0.08816	-1.5e-19	0.024437	-3.6e-20	-0.01056
11D	0.372987	0.990012	-2.9e-20	-0.27446	-4.2e-21	0.046307
12D	-0.37299	0.746596	-7.0e-21	-0.20698	-2.9e-21	-0.04631

Nodo 53

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	6.04e-19	-0.22940	2.45e-15	-0.05590	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.28968	4.36e-15	-0.07068	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.33106	4.36e-15	-0.08078	-1.4e-21
4S	0.049857	0.002167	0.	-0.00060	0.	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	0.	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.146751	0.018458	-7.0e-17	-0.00512	-1.7e-17	0.002211
2D	1.139073	-0.04011	-3.6e-16	0.011117	-7.5e-17	-0.00480
3D	0.028287	0.558930	2.94e-18	-0.15495	7.73e-19	0.026143
4D	-0.02829	0.421506	6.28e-18	-0.11686	-1.4e-18	-0.02614
5D	1.027238	0.016353	-5.8e-17	-0.00453	-1.4e-17	0.001959
6D	1.019847	-0.03549	-3.2e-16	0.009837	-6.6e-17	-0.00425
7D	0.023633	0.466523	2.44e-18	-0.12933	6.43e-19	0.021821
8D	-0.02363	0.351819	5.21e-18	-0.09754	-1.2e-18	-0.02182
9D	2.613918	0.040678	-1.2e-16	-0.01128	-2.9e-17	0.004872
10D	2.596584	-0.08816	-8.0e-16	0.024437	-1.7e-16	-0.01056
11D	0.050319	0.990012	4.95e-18	-0.27446	1.31e-18	0.046307
12D	-0.05032	0.746596	1.05e-17	-0.20698	-2.4e-18	-0.04631

Nodo 54

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	6.04e-19	-0.15935	-4.0e-19	-0.03876	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.18558	4.08e-18	-0.04525	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.21209	4.08e-18	-0.05171	-1.4e-21
4S	0.047592	0.002167	0.	-0.00060	0.	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.129287	0.018458	-5.7e-18	-0.00512	-4.0e-19	0.002211
2D	1.176826	-0.04011	4.25e-18	0.011117	5.21e-19	-0.00480
3D	-0.20014	0.558930	2.96e-19	-0.15495	2.73e-20	0.026143
4D	0.200144	0.421506	-2.6e-21	-0.11686	-3.8e-22	-0.02614
5D	1.011575	0.016353	-5.1e-18	-0.00453	-3.6e-19	0.001959
6D	1.053677	-0.03549	3.52e-18	0.009837	4.51e-19	-0.00425
7D	-0.16706	0.466523	2.64e-19	-0.12933	2.43e-20	0.021821
8D	0.167064	0.351819	-2.2e-21	-0.09754	-3.2e-22	-0.02182
9D	2.573956	0.040678	-1.3e-17	-0.01128	-9.1e-19	0.004872
10D	2.682895	-0.08816	7.06e-18	0.024437	1.06e-18	-0.01056
11D	-0.35459	0.990012	6.65e-19	-0.27446	6.15e-20	0.046307
12D	0.354591	0.746596	-4.5e-21	-0.20698	-6.8e-22	-0.04631

Nodo 56

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	6.00e-19	-0.00474	-7.9e-18	-7.3e-19	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.00514	-2.9e-18	-8.1e-20	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.00587	-2.9e-18	-8.1e-20	-1.4e-21
4S	0.051669	0.002786	0.	-0.00077	0.014324	0.000260
5S	2.57e-13	0.063030	0.	-0.01747	7.13e-14	3.40e-14
6S	2.57e-13	-0.05056	0.	0.014017	7.13e-14	3.40e-14
1D	1.160765	0.023732	7.42e-21	-0.00658	0.321807	0.002211
2D	1.109086	-0.05156	7.41e-21	0.014293	0.307482	-0.00480
3D	0.210584	0.602296	3.24e-22	-0.16697	0.058370	0.026143
4D	-0.21058	0.435349	-4.8e-22	-0.12069	-0.05837	-0.02614
5D	1.039801	0.021025	6.65e-21	-0.00583	0.288271	0.001959
6D	0.992950	-0.04563	6.63e-21	0.012647	0.275285	-0.00425
7D	0.175766	0.502719	2.70e-22	-0.13936	0.048719	0.021821
8D	-0.17577	0.363373	-4.0e-22	-0.10074	-0.04872	-0.02182
9D	2.645945	0.052300	1.69e-20	-0.01450	0.733553	0.004872
10D	2.527832	-0.11334	1.69e-20	0.031418	0.700815	-0.01056
11D	0.372987	1.066823	5.67e-22	-0.29575	0.103385	0.046307
12D	-0.37299	0.771116	-8.2e-22	-0.21378	-0.10339	-0.04631

**Nodo 58**

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.00e-19	-0.00704	7.42e-18	-7.3e-19	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.00874	1.81e-17	-7.9e-20	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.00999	1.81e-17	-7.9e-20	-1.4e-21
4S	0.049857	0.002786	0.	-0.00077	0.013822	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	5.48e-15	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	5.49e-15	3.40e-14
1D	1.146751	0.023732	1.06e-18	-0.00658	0.317923	0.002211
2D	1.139073	-0.05156	-3.4e-18	0.014293	0.315794	-0.00480
3D	0.028287	0.602296	-7.8e-19	-0.16697	0.007842	0.026143
4D	-0.02829	0.435349	-1.1e-18	-0.12069	-0.00784	-0.02614
5D	1.027238	0.021025	8.82e-19	-0.00583	0.284789	0.001959
6D	1.019847	-0.04563	-3.0e-18	0.012647	0.282740	-0.00425
7D	0.023633	0.502719	-6.5e-19	-0.13936	0.006552	0.021821
8D	-0.02363	0.363373	-9.5e-19	-0.10074	-0.00655	-0.02182
9D	2.613918	0.063303	1.77e-18	-0.01450	0.724676	0.004872
10D	2.596584	-0.11334	-7.5e-18	0.031418	0.719871	-0.01056
11D	0.050319	1.066823	-1.3e-18	-0.29575	0.013950	0.046307
12D	-0.05032	0.771116	-1.9e-18	-0.21378	-0.01395	-0.04631

Nodo 60

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	6.00e-19	-0.00476	-4.5e-19	-7.2e-19	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.00541	4.09e-18	-7.5e-20	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.00618	4.09e-18	-7.5e-20	-1.4e-21
4S	0.047592	0.002786	0.	-0.00077	0.013194	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	-7.7e-14	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	-7.7e-14	3.40e-14
1D	1.129287	0.023732	-9.5e-19	-0.00658	0.313082	0.002211
2D	1.176826	-0.05156	4.02e-18	0.014293	0.326258	-0.00480
3D	-0.20014	0.602296	4.84e-20	-0.16697	-0.05548	0.026143
4D	0.200144	0.435349	1.86e-21	-0.12069	0.055476	-0.02614
5D	1.011575	0.021025	-8.5e-19	-0.00583	0.280448	0.001959
6D	1.053677	-0.04563	3.51e-18	0.012647	0.292117	-0.00425
7D	-0.16706	0.502719	4.02e-20	-0.13936	-0.04631	0.021821
8D	0.167064	0.363373	1.55e-21	-0.10074	0.046307	-0.02182
9D	2.573956	0.052300	-2.2e-18	-0.01450	0.713599	0.004872
10D	2.682895	-0.11334	8.42e-18	0.031418	0.743795	-0.01056
11D	-0.35459	1.066823	8.38e-20	-0.29575	-0.09829	0.046307
12D	0.354591	0.771116	3.19e-21	-0.21378	0.098285	-0.04631

Nodo 61

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	5.97e-19	-0.15134	-4.8e-15	0.036553	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.16831	-4.3e-15	0.040764	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.19236	-4.3e-15	0.046587	-1.4e-21
4S	0.051669	0.003405	0.	-0.00077	0.	0.000260
5S	2.57e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	2.57e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.160765	0.029006	2.14e-18	-0.00658	-5.3e-19	0.002211
2D	1.109086	-0.06302	-3.4e-20	0.014293	-2.0e-19	-0.00480
3D	0.210584	0.648765	3.86e-20	-0.16697	-1.3e-20	0.026143
4D	-0.21058	0.457349	7.29e-20	-0.12069	1.32e-20	-0.02614
5D	1.039801	0.025697	1.91e-18	-0.00583	-4.8e-19	0.001959
6D	0.992950	-0.05576	-2.8e-20	0.012647	-1.8e-19	-0.00425
7D	0.175766	0.541505	3.22e-20	-0.13936	-1.0e-20	0.021821
8D	-0.17577	0.381736	6.07e-20	-0.10074	1.09e-20	-0.02182
9D	2.645945	0.063922	4.87e-18	-0.01450	-1.2e-18	0.004872
10D	2.527832	-0.13853	-5.8e-20	0.031418	-4.5e-19	-0.01056
11D	0.372987	1.149131	6.73e-20	-0.29575	-2.2e-20	0.046307
12D	-0.37299	0.810083	1.26e-19	-0.21378	2.17e-20	-0.04631

Nodo 62

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	5.97e-19	-0.19548	4.71e-15	0.045184	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.25138	8.70e-15	0.058570	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.28729	8.70e-15	0.066938	-1.4e-21
4S	0.049857	0.003405	0.	-0.00077	0.	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	0.	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.146751	0.029006	1.18e-16	-0.00658	-3.2e-17	0.002211
2D	1.139073	-0.06302	-5.9e-17	0.014293	1.91e-17	-0.00480
3D	0.028287	0.648765	8.61e-17	-0.16697	-2.3e-17	0.026143
4D	-0.02829	0.457349	1.63e-16	-0.12069	2.83e-17	-0.02614
5D	1.027238	0.025697	9.89e-17	-0.00583	-2.7e-17	0.001959
6D	1.019847	-0.05576	-4.9e-17	0.012647	1.61e-17	-0.00425
7D	0.023633	0.541505	7.19e-17	-0.13936	-1.9e-17	0.021821

8D	-0.02363	0.381736	1.36e-16	-0.10074	2.35e-17	-0.02182
9D	2.613918	0.063922	1.99e-16	-0.01450	-5.7e-17	0.004872
10D	2.596584	-0.13853	-9.6e-17	0.031418	3.59e-17	-0.01056
11D	0.050319	1.149131	1.50e-16	-0.29575	-4.0e-17	0.046307
12D	-0.05032	0.810083	2.80e-16	-0.21378	4.65e-17	-0.04631

Nodo 63

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	5.97e-19	-0.12008	-1.8e-16	0.026391	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.14242	4.09e-18	0.031650	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.16277	4.09e-18	0.036171	-1.4e-21
4S	0.047592	0.003405	0.	-0.00077	0.	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.129287	0.029006	-1.2e-16	-0.00658	-3.4e-17	0.002211
2D	1.176826	-0.06302	2.38e-16	0.014293	-6.4e-17	-0.00480
3D	-0.20014	0.648765	4.96e-18	-0.16697	9.81e-19	0.026143
4D	0.200144	0.457349	-1.8e-19	-0.12069	5.15e-20	-0.02614
5D	1.011575	0.025697	-1.1e-16	-0.00583	-3.0e-17	0.001959
6D	1.053677	-0.05576	1.96e-16	0.012647	-5.3e-17	-0.00425
7D	-0.16706	0.541505	4.11e-18	-0.13936	-8.1e-19	0.021821
8D	0.167064	0.381736	-1.5e-19	-0.10074	4.37e-20	-0.02182
9D	2.573956	0.063922	-2.8e-16	-0.01450	-7.7e-17	0.004872
10D	2.682895	-0.13853	3.91e-16	0.031418	-1.1e-16	-0.01056
11D	-0.35459	1.149131	8.57e-18	-0.29575	-1.7e-18	0.046307
12D	0.354591	0.810083	-3.1e-19	-0.21378	-9.6e-20	-0.04631

Nodo 64

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	5.94e-19	-0.15063	-7.3e-15	-0.03714	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.16752	-6.5e-15	-0.04143	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.19145	-6.5e-15	-0.04735	-1.4e-21
4S	0.051669	0.004024	0.	-0.00077	0.	0.000260
5S	2.57e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	2.57e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.160765	0.034279	1.19e-18	-0.00658	2.00e-19	0.002211
2D	1.109086	-0.07448	4.75e-19	0.014293	-1.8e-20	-0.00480
3D	0.210584	0.697716	5.35e-20	-0.16697	-8.1e-21	0.026143
4D	-0.21058	0.486399	-4.7e-20	-0.12069	2.54e-20	-0.02614
5D	1.039801	0.030370	1.06e-18	-0.00583	1.79e-19	0.001959
6D	0.992950	-0.06590	4.25e-19	0.012647	-1.6e-20	-0.00425
7D	0.175766	0.582363	4.47e-20	-0.13936	-6.7e-21	0.021821
8D	-0.17577	0.405983	-3.9e-20	-0.10074	2.12e-20	-0.02182
9D	2.645945	0.075544	2.71e-18	-0.01450	4.54e-19	0.004872
10D	2.527832	-0.16372	1.08e-18	0.031418	-3.9e-20	-0.01056
11D	0.372987	1.235837	9.39e-20	-0.29575	1.40e-20	0.046307
12D	-0.37299	0.861538	-7.8e-20	-0.21378	4.46e-20	-0.04631

Nodo 65

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	5.94e-19	-0.18672	6.98e-15	-0.05077	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.24141	1.30e-14	-0.06495	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.27590	1.30e-14	-0.07423	-1.4e-21
4S	0.049857	0.004024	0.	-0.00077	0.	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	0.	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.146751	0.034279	1.41e-16	-0.00658	2.93e-17	0.002211
2D	1.139073	-0.07448	-8.3e-17	0.014293	-1.7e-17	-0.00480
3D	0.028287	0.697716	9.48e-17	-0.16697	2.03e-17	0.026143
4D	-0.02829	0.486399	-1.2e-16	-0.12069	5.83e-17	-0.02614
5D	1.027238	0.030370	1.19e-16	-0.00583	2.47e-17	0.001959
6D	1.019847	-0.06590	-7.1e-17	0.012647	-1.4e-17	-0.00425
7D	0.023633	0.582363	7.92e-17	-0.13936	1.69e-17	0.021821
8D	-0.02363	0.405983	-1.0e-16	-0.10074	4.86e-17	-0.02182
9D	2.613918	0.075544	2.58e-16	-0.01450	5.12e-17	0.004872
10D	2.596584	-0.16372	1.61e-16	0.031418	-1.3e-17	-0.01056
11D	0.050319	1.235837	1.65e-16	-0.29575	3.53e-17	0.046307
12D	-0.05032	0.861538	-2.0e-16	-0.21378	1.02e-16	-0.04631

Nodo 66

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	5.94e-19	-0.11021	-3.5e-16	-0.03262	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.13154	4.09e-18	-0.03853	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.15033	4.09e-18	-0.04403	-1.4e-21
4S	0.047592	0.004024	0.	-0.00077	0.	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.129287	0.034279	-1.2e-16	-0.00658	-3.4e-17	0.0022



3D	-0.20014	0.697716	4.94e-18	-0.16697	-6.1e-19	0.026143
4D	0.200144	0.486399	2.76e-19	-0.12069	-3.3e-20	-0.02614
5D	1.011575	0.030370	-1.1e-16	-0.00583	-3.0e-17	0.001959
6D	1.053677	-0.06590	2.21e-16	0.012647	4.78e-17	-0.00425
7D	-0.16706	0.582363	4.10e-18	-0.13936	-5.0e-19	0.021821
8D	0.167064	0.405983	2.30e-19	-0.10074	-2.8e-20	-0.02182
9D	2.573956	0.075544	-2.8e-16	-0.01450	-7.7e-17	0.004872
10D	2.682895	-0.16372	4.53e-16	0.031418	9.95e-17	-0.01056
11D	-0.35459	1.235837	8.51e-18	-0.29575	-9.9e-19	0.046307
12D	0.354591	0.861538	4.80e-19	-0.21378	-5.6e-20	-0.04631

Nodo 67

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	5.90e-19	0.	0.	0.	-1.4e-21
2S	-2.9e-19	-1.5e-17	0.	0.	0.	-1.4e-21
3S	-2.9e-19	-1.5e-17	0.	0.	0.	-1.4e-21
4S	0.051927	0.004643	0.	0.	0.	0.000260
5S	2.91e-13	0.063030	0.	0.	0.	3.40e-14
6S	2.91e-13	-0.05056	0.	0.	0.	3.40e-14
1D	1.162765	0.039553	0.	0.	0.	0.002211
2D	1.104829	-0.08594	0.	0.	0.	-0.00480
3D	0.236588	0.748663	0.	0.	0.	0.026143
4D	-0.23659	0.521323	0.	0.	0.	-0.02614
5D	1.041594	0.035042	0.	0.	0.	0.001959
6D	0.989130	-0.07604	0.	0.	0.	-0.00425
7D	0.197471	0.624888	0.	0.	0.	0.021821
8D	-0.19747	0.435133	0.	0.	0.	-0.02182
9D	2.650512	0.087166	0.	0.	0.	0.004872
10D	2.518058	-0.18891	0.	0.	0.	-0.01056
11D	0.419045	1.326078	0.	0.	0.	0.046307
12D	-0.41904	0.923397	0.	0.	0.	-0.04631

Nodo 69

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	5.90e-19	-0.00262	-7.5e-15	-0.07502	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.00275	-6.5e-15	-0.08328	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.00314	-6.5e-15	-0.09517	-1.4e-21
4S	0.051669	0.004643	0.	-0.00077	0.	0.000260
5S	2.57e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	2.57e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.160765	0.039553	1.57e-18	-0.00658	2.87e-20	0.002211
2D	1.109086	-0.08594	2.41e-19	0.014293	6.79e-20	-0.00480
3D	0.210584	0.748663	4.59e-21	-0.16697	2.23e-20	0.026143
4D	-0.21058	0.521323	-2.8e-21	-0.12069	-3.4e-20	-0.02614
5D	1.039801	0.035042	1.40e-18	-0.00583	2.40e-20	0.001959
6D	0.992950	-0.07604	2.16e-19	0.012647	6.05e-20	-0.00425
7D	0.175766	0.624888	3.83e-21	-0.13936	1.86e-20	0.021821
8D	-0.17577	0.435133	-2.4e-21	-0.10074	-2.8e-20	-0.02182
9D	2.645945	0.087166	3.57e-18	-0.01450	4.80e-20	0.004872
10D	2.527832	-0.18891	5.46e-19	0.031418	1.53e-19	-0.01056
11D	0.372987	1.326078	8.08e-21	-0.29575	3.89e-20	0.046307
12D	-0.37299	0.923397	-4.8e-21	-0.21378	-5.8e-20	-0.04631

Nodo 70

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	5.90e-19	-0.26521	0.039827	-0.07848	-1.4e-21
2S	-2.9e-19	-1.5e-17	-0.34645	0.051047	-0.09747	-1.4e-21
3S	-2.9e-19	-1.5e-17	-0.39595	0.058339	-0.11139	-1.4e-21
4S	0.050537	0.004643	0.	0.	0.	0.000260
5S	1.09e-13	0.063030	0.	0.	0.	3.40e-14
6S	1.09e-13	-0.05056	0.	0.	0.	3.40e-14
1D	1.152002	0.039553	1.07e-15	-1.4e-16	4.34e-17	0.002211
2D	1.127804	-0.08594	-1.2e-16	3.40e-17	-2.5e-17	-0.00480
3D	0.096552	0.748663	1.23e-17	-1.2e-18	3.07e-17	0.026143
4D	-0.09655	0.521323	-1.7e-18	1.04e-19	1.03e-16	-0.02614
5D	1.031946	0.035042	9.55e-16	-1.2e-16	3.64e-17	0.001959
6D	1.009742	-0.07604	-1.1e-16	3.04e-17	-2.1e-17	-0.00425
7D	0.080592	0.624888	1.03e-17	-9.7e-19	2.56e-17	0.021821
8D	-0.08059	0.435133	-1.4e-18	8.62e-20	8.55e-17	-0.02182
9D	2.625922	0.087166	2.43e-15	-3.2e-16	7.43e-17	0.004872
10D	2.570770	-0.18891	-2.8e-16	7.74e-17	-4.4e-17	-0.01056
11D	0.171048	1.326078	2.18e-17	-2.0e-18	5.34e-17	0.046307
12D	-0.17105	0.923397	-2.8e-18	1.71e-19	1.80e-16	-0.04631

Nodo 72

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	5.90e-19	-0.00587	6.80e-15	-0.08056	-1.4e-21
2S	-2.8e-19	-1.5e-17	-0.00711	1.30e-14	-0.10599	-1.4e-21
3S	-2.8e-19	-1.5e-17	-0.00812	1.30e-14	-0.12113	-1.4e-21

4S	0.049857	0.004643	0.	-0.00077	0.	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	0.	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.146751	0.039553	2.51e-18	-0.00658	7.23e-17	0.002211
2D	1.139073	-0.08594	5.48e-19	0.014293	-3.4e-17	-0.00480
3D	0.028287	0.748663	3.98e-19	-0.16697	4.97e-17	0.026143
4D	-0.02829	0.521323	-5.6e-19	-0.12069	-6.6e-17	-0.02614
5D	1.027238	0.035042	2.24e-18	-0.00583	6.09e-17	0.001959
6D	1.019847	-0.07604	4.80e-19	0.012647	-2.8e-17	-0.00425
7D	0.023633	0.624888	3.32e-19	-0.13936	4.15e-17	0.021821
8D	-0.02363	0.435133	-4.6e-19	-0.10074	-5.4e-17	-0.02182
9D	2.613918	0.087166	5.66e-18	-0.01450	1.27e-16	0.004872
10D	2.596584	-0.18891	1.17e-18	0.031418	-5.4e-17	-0.01056
11D	0.050319	1.326078	6.93e-19	-0.29575	8.65e-17	0.046307
12D	-0.05032	0.923397	-9.3e-19	-0.21378	-1.1e-16	-0.04631

Nodo 74

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	5.90e-19	-0.00445	-5.3e-16	-0.04134	-1.4e-21
2S	-2.7e-19	-1.5e-17	-0.00494	4.09e-18	-0.05046	-1.4e-21
3S	-2.7e-19	-1.5e-17	-0.00565	4.09e-18	-0.05767	-1.4e-21
4S	0.047592	0.004643	0.	-0.00077	0.	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.129287	0.039553	-3.0e-20	-0.00658	-1.4e-16	0.002211
2D	1.176826	-0.08594	3.45e-20	0.014293	1.62e-16	-0.00480
3D	-0.20014	0.748663	-3.1e-22	-0.16697	3.44e-18	0.026143
4D	0.200144	0.521323	2.14e-22	-0.12069	-1.3e-19	-0.02614
5D	1.011575	0.035042	-2.7e-20	-0.00583	-1.2e-16	0.001959
6D	1.053677	-0.07604	2.91e-20	0.012647	1.36e-16	-0.00425
7D	-0.16706	0.624888	-2.5e-22	-0.13936	2.86e-18	0.021821
8D	0.167064	0.435133	1.77e-22	-0.10074	-1.1e-19	-0.02182
9D	2.573956	0.087166	-6.8e-20	-0.01450	-3.1e-16	0.004872
10D	2.682895	-0.18891	6.25e-20	0.031418	2.86e-16	-0.01056
11D	-0.35459	1.326078	-5.0e-22	-0.29575	5.98e-18	0.046307
12D	0.354591	0.923397	3.50e-22	-0.21378	2.23e-19	-0.04631

Nodo 75

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	5.87e-19	0.	0.	0.	-1.4e-21
2S	-2.9e-19	-1.5e-17	0.	0.	0.	-1.4e-21
3S	-2.9e-19	-1.5e-17	0.	0.	0.	-1.4e-21
4S	0.050537	0.005232	0.	0.	0.	0.000260
5S	1.09e-13	0.063030	0.	0.	0.	3.40e-14
6S	1.09e-13	-0.05056	0.	0.	0.	3.40e-14
1D	1.152002	0.044570	0.	0.	0.	0.002211
2D	1.127804	-0.09684	0.	0.	0.	-0.00480
3D	0.096552	0.798630	0.	0.	0.	0.026143
4D	-0.09655	0.558992	0.	0.	0.	-0.02614
5D	1.031946	0.039486	0.	0.	0.	0.001959
6D	1.009742	-0.08569	0.	0.	0.	-0.00425
7D	0.080592	0.666593	0.	0.	0.	0.021821
8D	-0.08059	0.466574	0.	0.	0.	-0.02182
9D	2.625922	0.098221	0.	0.	0.	0.004872
10D	2.570770	-0.21287	0.	0.	0.	-0.01056
11D	0.171048	1.414582	0.	0.	0.	0.046307
12D	-0.17105	0.990119	0.	0.	0.	-0.04631

Nodo 76

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.9e-18	5.87e-19	0.154657	6.80e-15	-0.06594	-1.4e-21
2S	-2.8e-19	-1.5e-17	0.207812	1.30e-14	-0.08909	-1.4e-21
3S	-2.8e-19	-1.5e-17	0.237499	1.30e-14	-0.10181	-1.4e-21
4S	0.049857	0.005232	0.	-0.00077	0.	0.000260
5S	1.98e-14	0.063030	0.	-0.01747	0.	3.40e-14
6S	1.98e-14	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.146751	0.044570	-2.0e-16	-0.00658	7.89e-17	0.002211
2D	1.139073	-0.09684	9.05e-17	0.014293	-5.0e-17	-0.00480
3D	0.028287	0.798630	-1.1e-16	-0.16697	5.24e-17	0.026143
4D	-0.02829	0.558992	-2.8e-16	-0.12069	1.34e-16	-0.02614
5D	1.027238	0.039486	-1.7e-16	-0.00583	6.62e-17	0.001959
6D	1.019847	-0.08569	7.52e-17	0.012647	-4.3e-17	-0.00425
7D	0.023633	0.666593	-9.5e-17	-0.13936	4.37e-17	0.021821
8D	-0.02363	0.466574	-2.4e-16	-0.10074	1.12e-16	-0.02182
9D	2.613918	0.098221	-3.7e-16	-0.01450	1.36e-16	0.004872
10D	2.596584	-0.21287	1.58e-16	0.031418	9.76e-17	-0.01056
11D	0.050319	1.414582	-2.0e-16	-0.29575	9.09e-17	0.046307
12D	-0.05032	0.990119	-4.9e-16	-0.21378	2.34e-16	-0.04631

Nodo 77						
CdC	Sx (cm)	Sy (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	5.87e-19	0.064212	-5.3e-16	-0.02504	-1.4e-21
2S	-2.7e-19	-1.5e-17	0.081337	4.09e-18	-0.03201	-1.4e-21
3S	-2.7e-19	-1.5e-17	0.092956	4.09e-18	-0.03658	-1.4e-21
4S	0.047592	0.005232	0.	-0.00077	0.	0.000260
5S	-2.8e-13	0.063030	0.	-0.01747	0.	3.40e-14
6S	-2.8e-13	-0.05056	0.	0.014017	0.	3.40e-14
1D	1.129287	0.044570	2.43e-16	-0.00658	2.04e-16	0.002211
2D	1.176826	-0.09684	-3.8e-16	0.014293	1.77e-16	-0.00480
3D	-0.20014	0.798630	5.96e-18	-0.16697	3.74e-18	0.026143
4D	0.200144	0.558992	-3.5e-19	-0.12069	-1.3e-19	-0.02614
5D	1.011575	0.039486	2.18e-16	-0.00583	1.83e-16	0.001959
6D	1.053677	-0.08569	-3.1e-16	0.012647	1.46e-16	-0.00425
7D	-0.16706	0.666593	4.92e-18	-0.13936	3.11e-18	0.021821
8D	0.167064	0.466574	-2.9e-19	-0.10074	-1.1e-19	-0.02182
9D	2.573956	0.098221	5.54e-16	-0.01450	4.65e-16	0.004872
10D	2.682895	-0.21287	-6.3e-16	0.031418	2.88e-16	-0.01056
11D	-0.35459	1.414582	1.01e-17	-0.29575	6.47e-18	0.046307
12D	0.354591	0.990119	-6.0e-19	-0.21378	-2.3e-19	-0.04631

Nodo 78						
CdC	Sx (cm)	Sy (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-1.9e-18	5.87e-19	0.	0.	0.	-1.4e-21
2S	-2.7e-19	-1.5e-17	0.	0.	0.	-1.4e-21
3S	-2.7e-19	-1.5e-17	0.	0.	0.	-1.4e-21
4S	0.047434	0.005232	0.	0.	0.	0.000260
5S	-3.0e-13	0.063030	0.	0.	0.	3.40e-14
6S	-3.0e-13	-0.05056	0.	0.	0.	3.40e-14
1D	1.128066	0.044570	0.	0.	0.	0.002211
2D	1.179479	-0.09684	0.	0.	0.	-0.00480
3D	-0.21611	0.798630	0.	0.	0.	0.026143
4D	0.216112	0.558992	0.	0.	0.	-0.02614
5D	1.010481	0.039486	0.	0.	0.	0.001959
6D	1.056054	-0.08569	0.	0.	0.	-0.00425
7D	-0.18039	0.666593	0.	0.	0.	0.021821
8D	0.180391	0.466574	0.	0.	0.	-0.02182
9D	2.571161	0.098221	0.	0.	0.	0.004872
10D	2.688952	-0.21287	0.	0.	0.	-0.01056
11D	-0.38287	1.414582	0.	0.	0.	0.046307
12D	0.382871	0.990119	0.	0.	0.	-0.04631

2.2 REAZIONI VINCOLARI

Per ciascuna Condizione di Carico Elementare Statica, Condizione Sismica, Combinazione di Carico per Analisi Non Lineare vengono riportate le reazioni vincolari nei nodi vincolati

- Nodo = Numero del Nodo
 CdC = Condizione di Carico (S = Statico, D = Dinamico, N = Non Lineare)
 Rx = Forza in direzione X
 Ry = Forza in direzione Y
 Rz = Forza in direzione Z
 Mx = Momento attorno all'asse X
 My = Momento attorno all'asse Y
 Mz = Momento attorno all'asse Z

Nodo 6						
CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	1.57e-17	-1.5e-17	20.13234	1.23e-16	8.64e-17	6.56e-22
2S	2.43e-18	3.50e-16	19.71914	-1.1e-15	7.55e-18	6.56e-22
3S	2.43e-18	3.50e-16	22.53616	-1.1e-15	7.55e-18	6.56e-22
4S	-0.42862	0.110551	0.	-0.34271	-1.32872	-0.00012
5S	-2.1e-12	-1.50075	0.	4.652318	-6.6e-12	-1.6e-14
6S	-2.1e-12	1.203788	0.	-3.73174	-6.6e-12	-1.6e-14
1D	-9.62911	0.941764	2.85e-15	-2.91947	-29.8502	-0.00104
2D	-9.20041	-2.04624	-1.0e-14	6.343358	-28.5213	0.002250
3D	-1.74689	-12.4128	3.98e-17	38.47954	-5.41537	-0.01225
4D	1.746894	-17.8258	4.60e-17	55.25984	5.415373	0.012245
5D	-8.62566	0.834348	2.53e-15	-2.58648	-26.7395	-0.00092
6D	-8.23700	-1.81056	-9.1e-15	5.612740	-25.5347	0.001991
7D	-1.45807	-10.3606	3.31e-17	32.11775	-4.52001	-0.01022
8D	1.458068	-14.8786	3.82e-17	46.12380	4.520010	0.010221
9D	-21.9494	2.075438	6.28e-15	-6.43386	-68.0431	-0.00228
10D	-20.9696	-4.49792	-2.3e-14	13.94356	-65.0058	0.004946
11D	-3.09411	-21.9862	6.79e-17	68.15720	-9.59175	-0.02169
12D	3.094112	-31.5741	7.93e-17	97.87961	9.591747	0.021689

Nodo 9						
CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	1.57e-17	-1.5e-17	43.44529	1.23e-16	8.62e-17	6.56e-22
2S	2.35e-18	3.50e-16	51.01241	-1.1e-15	7.30e-18	6.56e-22
3S	2.35e-18	3.50e-16	58.29989	-1.1e-15	7.30e-18	6.56e-22
4S	-0.41359	0.110551	0.	-0.34271	-1.28213	-0.00012
5S	-1.6e-13	-1.50075	0.	4.652318	-5.1e-13	-1.6e-14
6S	-1.6e-13	1.203788	0.	-3.73174	-5.1e-13	-1.6e-14
1D	-9.51286	0.941764	-4.5e-15	-2.91947	-29.4899	-0.00104
2D	-9.44917	-2.04624	1.04e-14	6.343358	-29.2924	0.002250
3D	-0.23466	-12.4128	9.08e-15	38.47954	-0.72744	-0.01225
4D	0.234657	-17.8258	-1.7e-15	55.25984	0.727436	0.012245
5D	-8.52144	0.834348	-3.8e-15	-2.58648	-26.4165	-0.00092

6D	-8.46013	-1.81056	9.29e-15	5.612740	-26.2264	0.001991
7D	-0.19605	-10.3606	7.54e-15	32.11775	-0.60776	-0.01022
8D	0.196051	-14.8786	-1.4e-15	46.12380	0.607758	0.010221
9D	-21.6837	2.075438	-8.2e-15	-6.43386	-67.2195	-0.00228
10D	-21.5399	-4.49792	2.35e-14	13.94356	-66.7738	0.004946
11D	-0.41742	-21.9862	1.53e-14	68.15720	-1.29400	-0.02169
12D	0.417418	-31.5741	-3.0e-15	97.87961	1.293995	0.021689

Nodo 11						
CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	1.56e-17	-1.5e-17	33.25130	1.23e-16	8.59e-17	6.56e-22
2S	2.25e-18	3.50e-16	35.47113	-1.1e-15	6.98e-18	6.56e-22
3S	2.25e-18	3.50e-16	40.53844	-1.1e-15	6.98e-18	6.56e-22
4S	-0.39480	0.110551	0.	-0.34271	-1.22388	-0.00012
5S	2.30e-12	-1.50075	0.	4.652318	7.12e-12	-1.6e-14
6S	2.30e-12	1.203788	0.	-3.73174	7.12e-12	-1.6e-14
1D	-9.36798	0.941764	2.13e-16	-2.91947	-29.0408	-0.00104
2D	-9.76235	-2.04624	1.60e-16	6.343358	-30.2633	0.002250
3D	1.660294	-12.4128	-4.5e-18	38.47954	5.146910	-0.01225
4D	-1.66029	-17.8258	3.37e-18	55.25984	-5.14691	0.012245
5D	-8.39151	0.834348	1.91e-16	-2.58648	-26.0137	-0.00092
6D	-8.74077	-1.81056	1.38e-16	5.612740	-27.0964	0.001991
7D	1.385879	-10.3606	-3.7e-18	32.11775	4.296224	-0.01022
8D	-1.38588	-14.8786	2.75e-18	46.12380	-4.29622	0.010221
9D	-21.3522	2.075438	4.85e-16	-6.43386	-66.1919	-0.00228
10D	-22.2559	-4.49792	-3.2e-16	13.94356	-68.9934	0.004946
11D	2.941504	-21.9862	-7.6e-18	68.15720	9.118661	-0.02169
12D	-2.94150	-31.5741	5.43e-18	97.87961	-9.11866	0.021689

Nodo 19						
CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	-2.5e-18	1.97e-15	35.32213	-1.9e-15	6.76e-17	6.56e-22
2S	2.43e-18	2.15e-15	36.87980	-2.9e-15	7.55e-18	6.56e-22
3S	2.43e-18	2.15e-15	42.14834	-2.9e-15	7.55e-18	6.56e-22
4S	-0.42863	0.066366	0.	-0.20566	-1.32873	-0.00012

**VALBONDIONE
TERRAZZA ESTERNA**

FASCICOLO DEI CALCOLI



5S	-2.1e-12	-1.50075	0.	4.652318	-6.6e-12	-1.6e-14
6S	-2.1e-12	1.203788	0.	-3.73174	-6.6e-12	-1.6e-14
1D	-9.62919	0.565362	2.19e-17	-1.75200	-29.8503	-0.00104
2D	-9.20024	-1.22841	2.69e-17	3.806696	-28.5211	0.002250
3D	-1.74795	-10.3668	8.29e-18	32.13479	-5.41646	-0.01225
4D	1.747947	-14.3433	1.99e-18	44.45896	5.416460	0.012245
5D	-8.62573	0.500878	1.93e-17	-1.55217	-26.7396	-0.00092
6D	-8.23685	-1.08692	2.40e-17	3.368247	-25.5345	0.001991
7D	-1.45895	-8.65283	6.90e-18	26.82197	-4.52092	-0.01022
8D	1.458946	-11.9720	1.67e-18	37.10860	4.520918	0.010221
9D	-21.9496	1.245931	4.78e-17	-3.86101	-68.0433	-0.00228
10D	-20.9692	-2.70020	6.09e-17	8.367631	-65.0054	0.004946
11D	-3.09598	-18.3622	1.43e-17	56.91900	-9.59367	-0.02169
12D	3.095976	-25.4058	3.64e-18	78.74840	9.593672	0.021689

Nodo 21

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	-2.5e-18	-2.0e-15	51.83802	2.14e-15	6.74e-17	6.56e-22
2S	2.35e-18	-3.3e-15	62.77041	2.64e-15	7.30e-18	6.56e-22
3S	2.35e-18	-3.3e-15	71.73761	2.64e-15	7.30e-18	6.56e-22
4S	-0.41359	0.066366	0.	-0.20566	-1.28213	-0.00012
5S	-1.6e-13	-1.50075	0.	4.652318	-5.1e-13	-1.6e-14
6S	-1.6e-13	1.203788	0.	-3.73174	-5.1e-13	-1.6e-14
1D	-9.51286	0.565362	-9.0e-15	-1.75200	-29.4899	-0.00104
2D	-9.44917	-1.22841	1.77e-14	3.806696	-29.2924	0.002250
3D	-0.23466	-10.3668	2.31e-14	32.13479	-0.72744	-0.01225
4D	0.234657	-14.3433	-3.5e-15	44.45896	0.727436	0.012245
5D	-8.52144	0.500878	-7.6e-15	-1.55217	-26.4165	-0.00092
6D	-8.46013	-1.08692	1.56e-14	3.368247	-26.2264	0.001991
7D	-0.19605	-8.65283	1.92e-14	26.82197	-0.60776	-0.01022
8D	0.196051	-11.9720	-3.0e-15	37.10860	0.607758	0.010221
9D	-21.6837	1.245931	1.66e-14	-3.86101	-67.2195	-0.00228
10D	-21.5399	-2.70020	3.78e-14	8.367631	-66.7738	0.004946
11D	-0.41742	-18.3622	3.94e-14	56.91900	-1.29400	-0.02169
12D	0.417418	-25.4058	-6.1e-15	78.74840	1.293995	0.021689

Nodo 23

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	-2.6e-18	5.81e-17	35.44407	4.65e-17	6.71e-17	6.56e-22
2S	2.25e-18	3.50e-16	38.84262	-1.1e-15	6.98e-18	6.56e-22
3S	2.25e-18	3.50e-16	44.39157	-1.1e-15	6.98e-18	6.56e-22
4S	-0.39479	0.066366	0.	-0.20566	-1.22387	-0.00012
5S	2.30e-12	-1.50075	0.	4.652318	7.12e-12	-1.6e-14
6S	2.30e-12	1.203788	0.	-3.73174	7.13e-12	-1.6e-14
1D	-9.36790	0.565362	6.82e-15	-1.75200	-29.0407	-0.00104
2D	-9.76252	-1.22841	1.30e-14	3.806696	-30.2635	0.002250
3D	1.661346	-10.3668	2.91e-17	32.13479	5.147998	-0.01225
4D	-1.66135	-14.3433	2.71e-16	44.45896	-5.14800	0.012245
5D	-8.39144	0.500878	6.10e-15	-1.55217	-26.0136	-0.00092
6D	-8.74093	-1.08692	-1.1e-14	3.368247	-27.0965	0.001991
7D	1.386757	-8.65283	2.42e-17	26.82197	4.297131	-0.01022
8D	-1.38676	-11.9720	2.22e-16	37.10860	-4.29713	0.010221
9D	-21.3520	1.245931	1.55e-14	-3.86101	-66.1917	-0.00228
10D	-22.2563	-2.70020	-2.6e-14	8.367631	-68.9938	0.004946
11D	2.943367	-18.3622	5.01e-17	56.91900	9.120587	-0.02169
12D	-2.94337	-25.4058	4.42e-16	78.74840	-9.12059	0.021689

Nodo 31

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	-2.5e-18	1.46e-15	35.32202	-1.4e-15	6.76e-17	6.56e-22
2S	2.43e-18	1.70e-15	36.87950	-2.5e-15	7.55e-18	6.56e-22
3S	2.43e-18	1.70e-15	42.14800	-2.5e-15	7.55e-18	6.56e-22
4S	-0.42863	0.022110	0.	-0.06854	-1.32873	-0.00012
5S	-2.1e-12	-1.50075	0.	4.652318	-6.6e-12	-1.6e-14
6S	-2.1e-12	1.203788	0.	-3.73174	-6.6e-12	-1.6e-14
1D	-9.62919	0.565362	6.66e-18	-0.58389	-29.8503	-0.00104
2D	-9.20024	-0.40925	-1.9e-18	1.268672	-28.5211	0.002250
3D	-1.74795	-10.0251	7.69e-19	31.07770	-5.41646	-0.01225
4D	1.747947	-11.5429	7.44e-19	35.78293	5.416460	0.012245
5D	-8.62573	0.166870	5.97e-18	-0.51730	-26.7396	-0.00092
6D	-8.23685	-0.36211	-1.7e-18	1.122548	-25.5345	0.001991
7D	-1.45895	-8.36763	6.40e-19	25.93965	-4.52092	-0.01022
8D	1.458946	-9.63451	6.14e-19	29.86698	4.520918	0.010221
9D	-21.9496	0.415088	1.52e-17	-1.28677	-68.0433	-0.00228
10D	-20.9692	-0.89958	-3.9e-18	2.788711	-65.0054	0.004946
11D	-3.09598	-17.7570	1.33e-18	55.04664	-9.59367	-0.02169
12D	3.095976	-20.4454	1.23e-18	63.38088	9.593672	0.021689

Nodo 33

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	-2.5e-18	-1.5e-15	53.44095	1.66e-15	6.74e-17	6.56e-22
2S	2.35e-18	-2.4e-15	64.57500	1.71e-15	7.30e-18	6.56e-22
3S	2.35e-18	-2.4e-15	73.80000	1.71e-15	7.30e-18	6.56e-22
4S	-0.41359	0.022110	0.	-0.06854	-1.28213	-0.00012
5S	-1.6e-13	-1.50075	0.	4.652318	-5.1e-13	-1.6e-14
6S	-1.6e-13	1.203788	0.	-3.73174	-5.1e-13	-1.6e-14
1D	-9.51286	0.188353	6.23e-15	-0.58389	-29.4899	-0.00104
2D	-9.44917	-0.40925	1.89e-14	1.268672	-29.2924	0.002250
3D	-0.23466	-10.0251	-6.9e-15	31.07770	-0.72744	-0.01225
4D	0.234657	-11.5429	8.55e-15	35.78293	0.727436	0.012245
5D	-8.52144	0.166870	5.58e-15	-0.51730	-26.4165	-0.00092
6D	-8.46013	-0.36211	1.62e-14	1.122548	-26.2264	0.001991
7D	-0.19605	-8.36763	-5.7e-15	25.93965	-0.60776	-0.01022
8D	0.196051	-9.63451	7.06e-15	29.86698	0.607758	0.010221
9D	-21.6837	0.415088	1.42e-14	-1.28677	-67.2195	-0.00228
10D	-21.5399	-0.89958	-3.7e-14	2.788711	-66.7738	0.004946
11D	-0.41742	-17.7570	-1.2e-14	55.04664	-1.29400	-0.02169
12D	0.417418	-20.4454	1.41e-14	63.38088	1.293995	0.021689

Nodo 35

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	-2.6e-18	2.18e-17	37.31605	8.35e-17	6.71e-17	6.56e-22
2S	2.25e-18	3.50e-16	40.89750	-1.1e-15	6.98e-18	6.56e-22
3S	2.25e-18	3.50e-16	46.74000	-1.1e-15	6.98e-18	6.56e-22
4S	-0.39479	0.022110	0.	-0.06854	-1.22387	-0.00012
5S	2.30e-12	-1.50075	0.	4.652318	7.12e-12	-1.6e-14
6S	2.30e-12	1.203788	0.	-3.73174	7.13e-12	-1.6e-14
1D	-9.36790	0.188353	3.19e-16	-0.58389	-29.0407	-0.00104
2D	-9.76252	-0.40925	-3.4e-16	1.268672	-30.2635	0.002250
3D	1.661346	-10.0251	-9.3e-19	31.07770	5.147998	-0.01225
4D	-1.66135	-11.5429	-2.3e-17	35.78293	-5.14800	0.012245
5D	-8.39144	0.166870	2.86e-16	-0.51730	-26.0136	-0.00092
6D	-8.74093	-0.36211	-3.0e-16	1.122548	-27.0965	0.001991
7D	1.386757	-8.36763	-7.8e-19	25.93965	4.297131	-0.01022
8D	-1.38676	-9.63451	-2.0e-17	29.86698	-4.29713	0.010221
9D	-21.3520	0.415088	7.28e-16	-1.28677	-66.1917	-0.00228
10D	-22.2563	-0.89958	-7.5e-16	2.788711	-68.9938	0.004946
11D	2.943367	-17.7570	-1.6e-18	55.04664	9.120587	-0.02169
12D	-2.94337	-20.4454	-5.1e-17	63.38088	-9.12059	0.021689

Nodo 43

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	-3.8e-17	1.46e-15	35.32202	-1.4e-15	6.71e-17	6.56e-22
2S	-2.6e-17	1.70e-15	36.87950	-2.5e-15	-2.2e-17	6.56e-22
3S	-2.6e-17	1.70e-15	42.14800	-2.5e-15	-2.2e-17	6.56e-22
4S	-0.42863	-0.02211	0.	0.068541	-1.32873	-0.00012
5S	-2.1e-12	-1.50075	0.	4.652318	-6.6e-12	-1.6e-14
6S	-2.1e-12	1.203788	0.	-3.73174	-6.6e-12	-1.6e-14
1D	-9.62919	-0.18835	-2.7e-17	0.583894	-29.8503	-0.00104
2D	-9.20024	0.409249	1.48e-18	-1.26867	-28.5211	0.002250
3D	-1.74795	-11.5429	-5.6e-19	35.78293	-5.41646	-0.01225
4D	1.747947	-10.0251	8.20e-19	31.07769	5.416460	0.012245
5D	-8.62573	-0.16687	-2.4e-17	0.517296	-26.7396	-0.00092
6D	-8.23685	0.362112	1.26e-18	-1.12255	-25.5345	0.001991
7D	-1.45895	-9.63451	-4.6e-19	29.86698	-4.52092	-0.01022
8D	1.458946	-8.36763	6.79e-19	25.93965	4.520918	0.010221
9D	-21.9496	-0.41509	-6.1e-17	1.286772	-68.0433	-0.00228
10D	-20.9692	0.899585	2.70e-18	-2.78871	-65.0054	0.004946
11D	-3.09598	-20.4454	-9.1e-19	63.38088	-9.59367	-0.02169
12D	3.095976	-17.7570	1.38e-18	55.04664	9.593672	0.021689

Nodo 45

CdC	Rx (kN)	Rv (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	-9.6e-18	-1.5e-15	53.44095	1.65e-15	6.01e-17	6.56e-22
2S	2.34e-18	-2.4e-15	64.57500	1.71e-15	7.29e-18	6.56e-22
3S	2.34e-18	-2.4e-15	73.80000	1.71e-15	7.29e-18	6.56e-22
4S	-0.41359	-0.02211	0.	0.068541	-1.28213	-0.00012
5S	-1.6e-13	-1.50075	0.	4.652318	-5.1e-13	-1.6e-14
6S	-1.6e-13	1.203788	0.	-3.73174	-5.1e-13	-1.6e-14
1D	-9.51286	-0.18835	7.86e-15	0.583894	-29.4899	-0.00104
2D	-9.44917	0.409249	1.84e-14	-1.26867	-29.2924	0.002250
3D	-0.23466	-11.5429	-1.1e-14	35.78293	-0.72744	-0.01225
4D	0.234657	-10.0251	8.52e-15	31.07769	0.727436	0.012245
5D	-8.52144	-0.16687	6.96e-15	0.517296	-26.4165	-0.00092
6D	-8.46013	0.362112	1.57e-14	-1.12255	-26.2264	0.001991
7D	-0.19605	-9.63451	-8.9e-15	29.86698	0.60776	-0.01022



8D	0.196051	-8.36763	7.05e-15	25.93965	0.607758	0.010221
9D	-21.6837	-0.41509	1.73e-14	1.286772	-67.2195	-0.00228
10D	-21.5399	0.899585	-3.5e-14	-2.78871	-66.7738	0.004946
11D	-0.41742	-20.4454	-1.8e-14	63.38088	-1.29400	-0.02169
12D	0.417418	-17.7570	1.42e-14	55.04664	1.293995	0.021689

Nodo 47

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
1S	-2.4e-17	2.20e-17	37.31605	8.28e-17	4.52e-17	6.56e-22
2S	-1.2e-17	3.51e-16	40.89750	-1.1e-15	-7.6e-18	6.56e-22
3S	-1.2e-17	3.51e-16	46.74000	-1.1e-15	-7.6e-18	6.56e-22
4S	-0.39479	-0.02211	0.	0.068541	-1.22387	-0.00012
5S	2.30e-12	-1.50075	0.	4.652318	7.12e-12	-1.6e-14
6S	2.30e-12	1.203788	0.	-3.73174	7.13e-12	-1.6e-14
1D	-9.36790	-0.18835	1.06e-16	0.583894	-29.0407	-0.00104
2D	-9.76252	0.409249	-3.7e-16	-1.26867	-30.2635	0.002250
3D	1.661346	-11.5429	2.68e-18	35.78293	5.147998	-0.01225
4D	-1.66135	-10.0251	1.55e-18	31.07769	-5.14800	0.012245
5D	-8.39144	-0.16687	9.54e-17	0.517296	-26.0136	-0.00092
6D	-8.74093	0.362112	-3.3e-16	-1.12255	-27.0965	0.001991
7D	1.386757	-9.63451	2.21e-18	29.86698	4.297131	-0.01022
8D	-1.38676	-8.36763	1.36e-18	25.93965	-4.29713	0.010221
9D	-21.3520	-0.41509	2.43e-16	1.286772	-66.1917	-0.00228
10D	-22.2563	0.899585	-7.9e-16	-2.78871	-68.9938	0.004946
11D	2.943367	-20.4454	-4.6e-18	63.38088	9.120587	-0.02169
12D	-2.94337	-17.7570	3.32e-18	55.04664	-9.12059	0.021689

Nodo 55

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
1S	-2.5e-18	1.97e-15	35.32213	-1.9e-15	6.76e-17	6.56e-22
2S	2.43e-18	2.15e-15	36.87980	-3.0e-15	7.55e-18	6.56e-22
3S	2.43e-18	2.15e-15	42.14834	-3.0e-15	7.55e-18	6.56e-22
4S	-0.42863	-0.06637	0.	0.205661	-1.32873	-0.00012
5S	-2.1e-12	-1.50075	0.	4.652318	-6.6e-12	-1.6e-14
6S	-2.1e-12	1.203788	0.	-3.73174	-6.6e-12	-1.6e-14
1D	-9.62919	-0.56536	-5.3e-17	1.751996	-29.8503	-0.00104
2D	-9.20024	1.228406	-5.3e-17	-3.80670	-28.5211	0.002250
3D	-1.74795	-14.3433	-2.3e-18	44.45896	-5.41646	-0.01225
4D	1.747947	-10.3668	3.45e-18	32.13478	5.416460	0.012245
5D	-8.62573	-0.50088	-4.8e-17	1.552165	-26.7396	-0.00092
6D	-8.23685	1.086920	-4.8e-17	-3.36825	-25.5345	0.001991
7D	-1.45895	-11.9720	-1.9e-18	37.10860	-4.52092	-0.01022
8D	1.458946	-8.65283	2.87e-18	26.82196	4.520918	0.010221
9D	-21.9496	-1.24593	-1.2e-16	3.861005	-68.0433	-0.00228
10D	-20.9692	2.700202	-1.2e-16	-8.36763	-65.0054	0.004946
11D	-3.09598	-25.4058	-4.1e-18	78.74840	-9.59367	-0.02169
12D	3.095976	-18.3622	5.91e-18	56.91899	9.593672	0.021689

Nodo 57

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
1S	-2.5e-18	2.0e-15	51.83802	2.14e-15	6.74e-17	6.56e-22
2S	2.35e-18	-3.3e-15	62.77041	2.64e-15	7.30e-18	6.56e-22
3S	2.35e-18	-3.3e-15	71.73761	2.64e-15	7.30e-18	6.56e-22
4S	-0.41359	-0.06637	0.	0.205661	-1.28213	-0.00012
5S	-1.6e-13	-1.50075	0.	4.652318	-5.1e-13	-1.6e-14
6S	-1.6e-13	1.203788	0.	-3.73174	-5.1e-13	-1.6e-14
1D	-9.51286	-0.56536	-7.6e-15	1.751996	-29.4899	-0.00104
2D	-9.44917	1.228406	2.45e-14	-3.80670	-29.2924	0.002250
3D	-0.23466	-14.3433	5.57e-15	44.45896	-0.72744	-0.01225
4D	0.234657	-10.3668	8.20e-15	32.13478	0.727436	0.012245
5D	-8.52144	-0.50088	-6.3e-15	1.552165	-26.4165	-0.00092
6D	-8.46013	1.086920	2.17e-14	-3.36825	-26.2264	0.001991
7D	-0.19605	-11.9720	4.65e-15	37.10860	-0.60776	-0.01022
8D	0.196051	-8.65283	6.79e-15	26.82196	0.607758	0.010221
9D	-21.6837	-1.24593	-1.3e-14	3.861005	-67.2195	-0.00228
10D	-21.5399	2.700202	5.40e-14	-8.36763	-66.7738	0.004946
11D	-0.41742	-25.4058	9.66e-15	78.74840	-1.29400	-0.02169
12D	0.417418	-18.3622	1.35e-14	56.91899	1.293995	0.021689

Nodo 59

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
1S	-2.6e-18	5.88e-17	35.44407	4.43e-17	6.71e-17	6.56e-22
2S	2.25e-18	3.51e-16	38.84262	-1.1e-15	6.98e-18	6.56e-22
3S	2.25e-18	3.51e-16	44.39157	-1.1e-15	6.98e-18	6.56e-22
4S	-0.39479	-0.06637	0.	0.205661	-1.22387	-0.00012
5S	2.30e-12	-1.50075	0.	4.652318	7.12e-12	-1.6e-14

6S	2.30e-12	1.203788	0.	-3.73174	7.13e-12	-1.6e-14
1D	-9.36790	-0.56536	6.82e-15	1.751996	-29.0407	-0.00104
2D	-9.76252	1.228406	-2.9e-14	-3.80670	-30.2635	0.002250
3D	1.661346	-14.3433	-3.5e-16	44.45896	5.147998	-0.01225
4D	-1.66135	-10.3668	-1.3e-17	32.13478	-5.14800	0.012245
5D	-8.39144	-0.50088	6.11e-15	1.552165	-26.0136	-0.00092
6D	-8.74093	1.086920	-2.5e-14	-3.36825	-27.0965	0.001991
7D	1.386757	-11.9720	-2.9e-16	37.10860	4.297131	-0.01022
8D	-1.38676	-8.65283	-1.1e-17	26.82196	-4.29713	0.010221
9D	-21.3520	-1.24593	1.55e-14	3.861005	-66.1917	-0.00228
10D	-22.2563	2.700202	-6.0e-14	-8.36763	-68.9938	0.004946
11D	2.943367	-25.4058	-6.0e-16	78.74840	9.120587	-0.02169
12D	-2.94337	-18.3622	-2.3e-17	56.91899	-9.12059	0.021689

Nodo 68

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
1S	1.57e-17	-1.4e-17	20.13234	1.19e-16	8.64e-17	6.56e-22
2S	2.43e-18	3.51e-16	19.71914	-1.1e-15	7.55e-18	6.56e-22
3S	2.43e-18	3.51e-16	22.53616	-1.1e-15	7.55e-18	6.56e-22
4S	-0.42862	-0.11055	0.	0.342707	-1.32872	-0.00012
5S	-2.1e-12	-1.50075	0.	4.652318	-6.6e-12	-1.6e-14
6S	-2.1e-12	1.203788	0.	-3.73174	-6.6e-12	-1.6e-14
1D	-9.62919	-0.56536	-1.1e-14	2.919470	-29.8502	-0.00104
2D	-9.20041	1.228406	-1.7e-15	-3.80670	-28.5213	0.002250
3D	-1.74689	-17.8258	-3.3e-17	55.25984	-5.41537	-0.01225
4D	1.746894	-12.4128	2.03e-17	38.47954	5.415373	0.012245
5D	-8.62566	-0.83435	-1.0e-14	2.586479	-26.7395	-0.00092
6D	-8.23700	1.810561	-1.5e-15	-5.61274	-25.5347	0.001991
7D	-1.45807	-14.8786	-2.8e-17	46.12380	-4.52001	-0.01022
8D	1.458068	-10.3606	1.69e-17	32.11774	4.520010	0.010221
9D	-21.9494	-2.07544	-2.6e-14	6.433857	-68.0431	-0.00228
10D	-20.9696	4.497921	-3.9e-15	-13.9436	-65.0058	0.004946
11D	-3.09411	-31.5741	-5.8e-17	97.87961	-9.59175	-0.02169
12D	3.094112	-21.9862	3.48e-17	68.15719	9.591747	0.021689

Nodo 71

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
1S	1.57e-17	-1.4e-17	43.44530	1.19e-16	8.62e-17	6.56e-22
2S	2.35e-18	3.51e-16	51.01241	-1.1e-15	7.30e-18	6.56e-22
3S	2.35e-18	3.51e-16	58.29989	-1.1e-15	7.30e-18	6.56e-22
4S	-0.41359	-0.11055	0.	0.342707	-1.28213	-0.00012
5S	-1.6e-13	-1.50075	0.	4.652318	-5.1e-13	-1.6e-14
6S	-1.6e-13	1.203788	0.	-3.73174	-5.1e-13	-1.6e-14
1D	-9.51286	-0.56536	-1.8e-14	2.919470	-29.4899	-0.00104
2D	-9.44917	1.228406	-3.9e-15	-3.80670	-29.2924	0.002250
3D	-0.23466	-17.8258	-2.9e-15	55.25984	-0.72744	-0.01225
4D	0.234657	-12.4128	4.01e-15	38.47954	0.727436	0.012245
5D	-8.52144	-0.83435	-1.6e-14	2.586479	-26.4165	-0.00092
6D	-8.46013	1.810561	-3.4e-15	-5.61274	-26.2264	0.001991
7D	-0.19605	-14.8786	-2.4e-15	46.12380	-0.60776	-0.01022
8D	0.196051	-10.3606	3.33e-15	32.11774	0.607758	0.010221
9D	-21.6837	-2.07544	-4.1e-14	6.433857	-67.2195	-0.00228
10D	-21.5399	4.497921	-8.4e-15	-13.9436	-66.7738	0.004946
11D	-0.41742	-31.5741	-5.0e-15	97.87961	-1.29400	-0.02169
12D	0.417418	-21.9862	6.68e-15	68.15719	1.293995	0.021689

Nodo 73

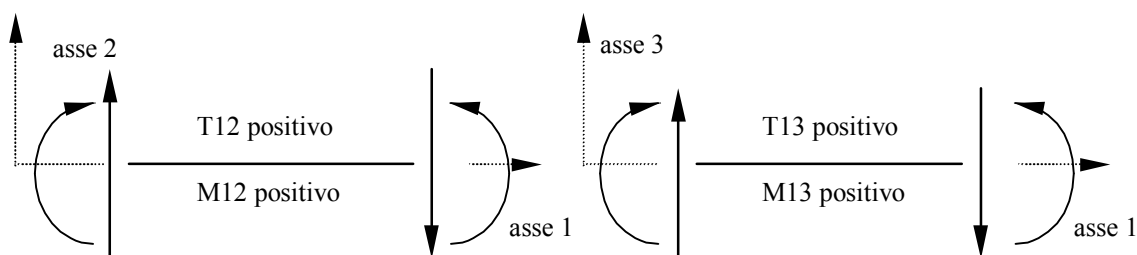
CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
1S	1.56e-17	-1.4e-17	33.25130	1.19e-16	8.59e-17	6.56e-22
2S	2.25e-18	3.51e-16	35.47113	-1.1e-15	6.98e-18	6.56e-22
3S	2.25e-18	3.51e-16	40.53844	-1.1e-15	6.98e-18	6.56e-22
4S	-0.39480	-0.11055	0.	0.342707	-1.22388	-0.00012
5S	2.30e-12	-1.50075	0.	4.652318	7.12e-12	-1.6e-14
6S	2.30e-12	1.203788	0.	-3.73174	7.12e-12	-1.6e-14
1D	-9.36798	-0.56536	2.13e-16	2.919470	-29.0408	-0.00104
2D	-9.76235	1.228406	-2.5e-16	-3.80670	-29.2633	0.002250
3D	1.660294	-17.8258	2.23e-18	55.25984	5.146910	-0.01225
4D	-1.66029	-12.4128	-1.5e-18	38.47954	-5.14691	0.012245
5D	-8.39151	-0.83435	1.91e-16	2.586479	-26.0137	-0.00092
6D	-8.74077	1.810561	-2.1e-16	-5.61274	-27.0964	0.001991
7D	1.385879	-14.8786	1.82e-18	46.12380	4.296224	-0.01022
8D	-1.38588	-10.3606	-1.3e-18	32.11774	-4.29622	0.010221
9D	-21.3522	-2.07544	4.85e-16	6.433857	-66.1919	-0.00228
10D	-22.2559	4.497921	-4.5e-16	-13.9436	-68.9934	0.004946
11D	2.941504	-31.5741	3.60e-18	97.87961	9.118661	-0.02169
12D	-2.94150	-21.9862	-2.5e-18	68.15719	-9.11866	0.021689

Per ciascuna Condizione di Carico Elementare Statica, Condizione Sismica, Combinazione di Carico per Analisi Non Lineare, vengono riportate le risultanti delle reazioni vincolari con i momenti calcolati rispetto all'origine:

CdC	R _x (kN)	R _y (kN)	R _z (kN)	M _x (kNm)	M _y (kNm)	M _z (kNm)
1S	-1.69e-24	1.948e-23	691.02433	3097.9996	-7082.999	-2.18e-22
2S	0.	1.084e-22	774.09501	3500.6650	-7934.474	8.181e-23
3S	0.	1.084e-22	884.68004	4000.7602	-9067.970	8.181e-23
4S	-7.422067	0.	0.	0.	-23.00841	21.723146
5S	-1.63e-16	-27.01346	0.	83.741724	-5.06e-16	-276.8880
6S	1.638e-16	21.668183	0.	-67.17136	5.068e-16	222.09888
1D	-171.0597	0.	-1.90e-14	5.625e-07	-530.2852	653.06121
2D	-170.4715	9.155e-08	5.729e-14	-7.50e-07	-528.4617	930.19942
3D	-1.927546	-229.5496	1.710e-14	711.58127	-5.975391	-2686.318
4D	1.9275449	-229.5496	2.436e-14	711.58124	5.9753901	-2019.449
5D	-153.2317	0.	-1.59e-14	9.375e-08	-475.0182	585.78985
6D	-152.6274	3.662e-07	2.727e-14	-3.75e-07	-473.1449	830.99691
7D	-1.609441	-191.5984	1.422e-14	593.93621	-4.989269	-2242.192
8D	1.6094406	-191.5984	2.011e-14	593.93619	4.9892689	-1685.575
9D	-389.9121	-3.66e-07	1.143e-16	2.449e-13	-1208.727	1494.6616
10D	-388.5928	0.	-8.12e-14	-6.56e-13	-1204.638	2106.2064
11D	-3.420158	-406.5920	2.880e-14	1260.3951	-10.60249	-4758.163
12D	3.4201573	-406.5919	3.990e-14	1260.3951	10.602486	-3576.972

2.3 SOLLECITAZIONI SU ELEMENTI TIPO BEAM

Per ciascuna Condizione di Carico Elementare Statica, Condizione Sismica, Combinazione di Carico per Analisi Non Lineare vengono riportate le sollecitazioni di ciascun elemento tipo Beam ad inizio e fine Beam



Convenzioni di segno - sollecitazioni Beam

- Beam = Numero dell'Elemento Beam
- CdC = Condizione di Carico (S = Statico, D = Dinamico, N = Non Lineare)
- N = Sforzo assiale (positivo se di trazione)
- T2 = Taglio nella direzione 2
- T3 = Taglio nella direzione 3
- MT = Momento Torcente
- M2 = Momento attorno all'asse 2
- M3 = Momento attorno all'asse 3

QW2 = Carico di Winkler asse 2
QW3 = Carico di Winkler asse 3
P2 = Pressione di Winkler asse 2
P3 = Pressione di Winkler asse 3

Beam: 1	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	4.660892	-0.00141	0.	0.
Fine Asta	1S	0.	0.	-4.66089	-0.00141	-3.3e-07	0.
Inizio Asta	2S	0.	0.	5.687500	-0.00196	0.	0.
Fine Asta	2S	0.	0.	-5.68750	-0.00196	-8.8e-07	0.
Inizio Asta	3S	0.	0.	6.500000	-0.00224	0.	0.
Fine Asta	3S	0.	0.	-6.50000	-0.00224	8.98e-07	0.
Inizio Asta	4S	0.	0.020747	0.	0.	0.	0.
Fine Asta	4S	0.	-0.02075	0.	0.	0.	3.33e-09
Inizio Asta	5S	0.020747	0.	0.	0.	0.	0.
Fine Asta	5S	-0.02075	0.	0.	0.	0.	0.
Inizio Asta	6S	0.020747	0.	0.	0.	0.	0.
Fine Asta	6S	-0.02075	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 2	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	-4.66089	0.	-0.00141	0.
Fine Asta	1S	0.	0.	-5.44500	0.	-6.57024	0.
Inizio Asta	2S	0.	0.	-5.68750	0.	-0.00196	0.
Fine Asta	2S	0.	0.	-5.68750	0.	-7.39571	0.
Inizio Asta	3S	0.	0.	-6.50000	0.	-0.00224	0.
Fine Asta	3S	0.	0.	-6.50000	0.	-8.45224	0.
Inizio Asta	4S	0.	0.	0.	0.	0.	0.
Fine Asta	4S	0.	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	0.	0.	0.	0.	0.
Fine Asta	5S	0.	0.	0.	0.	0.	0.
Inizio Asta	6S	0.	0.	0.	0.	0.	0.
Fine Asta	6S	0.	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.

Beam: 3	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	-4.66089	0.	0.001407	0.
Fine Asta	1S	0.	0.	-7.15125	0.	-7.67649	0.
Inizio Asta	2S	0.	0.	-5.68750	0.	0.001963	0.
Fine Asta	2S	0.	0.	-7.28000	0.	-8.42691	0.
Inizio Asta	3S	0.	0.	-6.50000	0.	0.002244	0.
Fine Asta	3S	0.	0.	-8.32000	0.	-9.63076	0.
Inizio Asta	4S	0.001452	0.	0.	0.	0.	0.
Fine Asta	4S	-0.00145	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.00145	0.	0.	0.	0.000315
Fine Asta	5S	0.	0.001452	0.	0.	0.	0.000315
Inizio Asta	6S	0.	-0.00145	0.	0.	0.	0.000315
Fine Asta	6S	0.	0.001452	0.	0.	0.	0.000315
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 4	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	-20.1323	0.	0.	0.	0.	0.
Fine Asta	1S	-17.5532	0.	0.	0.	0.	0.
Inizio Asta	2S	-19.7191	0.	0.	0.	0.	0.
Fine Asta	2S	-19.7191	0.	0.	0.	0.	0.
Inizio Asta	3S	-22.5362	0.	0.	0.	0.	0.
Fine Asta	3S	-22.5362	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.42862	0.110551	0.000122	-0.34271	1.328723
Fine Asta	4S	0.	-0.42862	0.110551	0.000122	7.93e-09	3.87e-08
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.

VALBONDIONE
TERRAZZA ESTERNA

FASCICOLO DEI CALCOLI



Inizio Asta	1D	0.	-9.62911	0.941764	0.001036	-2.91947	29.85024
Fine Asta	1D	0.	-9.62911	0.941764	0.001036	0.	0.
Inizio Asta	2D	0.	-9.20041	-2.04624	-0.00225	6.343358	28.52127
Fine Asta	2D	0.	-9.20041	-2.04624	-0.00225	0.	0.
Inizio Asta	3D	0.	-1.74689	-12.4128	0.012245	38.47954	5.415373
Fine Asta	3D	0.	-1.74689	-12.4128	0.012245	0.	0.
Inizio Asta	4D	0.	1.746894	-17.8258	-0.01225	55.25984	-5.41537
Fine Asta	4D	0.	1.746894	-17.8258	-0.01225	0.	0.
Inizio Asta	5D	0.	-8.62566	0.834348	0.000917	-2.58648	26.73955
Fine Asta	5D	0.	-8.62566	0.834348	0.000917	0.	0.
Inizio Asta	6D	0.	-8.23700	-1.81056	-0.00199	5.612740	25.53471
Fine Asta	6D	0.	-8.23700	-1.81056	-0.00199	0.	0.
Inizio Asta	7D	0.	-1.45807	-10.3606	0.010221	32.11775	4.520010
Fine Asta	7D	0.	-1.45807	-10.3606	0.010221	0.	0.
Inizio Asta	8D	0.	1.458068	-14.8786	-0.01022	46.12380	-4.52001
Fine Asta	8D	0.	1.458068	-14.8786	-0.01022	0.	0.
Inizio Asta	9D	0.	-21.9494	2.075438	0.002282	-6.43386	68.04314
Fine Asta	9D	0.	-21.9494	2.075438	0.002282	0.	0.
Inizio Asta	10D	0.	-20.9696	-4.49792	-0.00495	13.94356	65.00576
Fine Asta	10D	0.	-20.9696	-4.49792	-0.00495	0.	0.
Inizio Asta	11D	0.	-3.09411	-21.9862	0.021689	68.15720	9.591748
Fine Asta	11D	0.	-3.09411	-21.9862	0.021689	0.	0.
Inizio Asta	12D	0.	3.094112	-31.5741	-0.02169	97.87961	-9.59175
Fine Asta	12D	0.	3.094112	-31.5741	-0.02169	0.	0.

Beam: 5		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	0.	4.766214	0.000238	0.	0.
Fine Asta	1S	0.	0.	0.	-0.09468	0.000238	5.839419	0.
Inizio Asta	2S	0.	0.	0.	6.063022	0.000976	0.	0.
Fine Asta	2S	0.	0.	0.	0.083854	0.000976	7.683595	0.
Inizio Asta	3S	0.	0.	0.	6.929168	0.001116	0.	0.
Fine Asta	3S	0.	0.	0.	0.095833	0.001116	8.781252	0.
Inizio Asta	4S	0.	0.750277	0.	0.	0.	0.	0.
Fine Asta	4S	0.	-1.25046	0.	0.	0.	-0.62523	0.
Inizio Asta	5S	0.010905	0.	0.	0.	0.	0.	0.
Fine Asta	5S	-0.01091	0.	0.	0.	0.	0.	0.
Inizio Asta	6S	0.010905	0.	0.	0.	0.	0.	0.
Fine Asta	6S	-0.01091	0.	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.	0.

Beam: 6		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	0.	-0.09468	0.000238	5.839420	0.
Fine Asta	1S	0.	0.	0.	-7.69121	0.000238	2.54e-08	0.
Inizio Asta	2S	0.	0.	0.	0.083854	0.000976	7.683595	0.
Fine Asta	2S	0.	0.	0.	-10.3286	0.000976	-7.5e-08	0.
Inizio Asta	3S	0.	0.	0.	0.095833	0.001116	8.781252	0.
Fine Asta	3S	0.	0.	0.	-11.8042	0.001116	3.38e-07	0.
Inizio Asta	4S	0.	0.758057	0.	0.	0.	-0.22742	0.
Fine Asta	4S	0.	-0.45483	0.	0.	0.	-2.4e-08	0.

Inizio Asta	5S	0.012767	0.	0.	0.	0.	0.	0.
Fine Asta	5S	-0.01277	0.	0.	0.	0.	0.	0.
Inizio Asta	6S	0.012767	0.	0.	0.	0.	0.	0.
Fine Asta	6S	-0.01277	0.	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.	0.

Beam: 7		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	-43.4453	0.	0.	0.	0.	0.	0.
Fine Asta	1S	-40.8661	0.	0.	0.	0.	0.	0.
Inizio Asta	2S	-51.0124	0.	0.	0.	0.	0.	0.
Fine Asta	2S	-51.0124	0.	0.	0.	0.	0.	0.
Inizio Asta	3S	-58.2999	0.	0.	0.	0.	0.	0.
Fine Asta	3S	-58.2999	0.	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.41359	0.110551	0.000122	-0.34271	1.282128	0.
Fine Asta	4S	0.	-0.41359	0.110551	0.000122	7.93e-09	2.16e-08	0.
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.	0.
Inizio Asta	1D	0.	-9.51286	0.941764	0.001036	-2.91947	29.48987	0.
Fine Asta	1D	0.	-9.51286	0.941764	0.001036	0.	0.	0.
Inizio Asta	2D	0.	-9.44917	-2.04624	-0.00225	6.343358	29.29241	0.
Fine Asta	2D	0.	-9.44917	-2.04624	-0.00225	0.	0.	0.
Inizio Asta	3D	0.	-0.23466	-12.4128	0.012245	38.47954	0.727436	0.
Fine Asta	3D	0.	-0.23466	-12.4128	0.012245	0.	0.	0.
Inizio Asta	4D	0.	0.234657	-17.8258	-0.01225	55.25984	-0.72744	0.
Fine Asta	4D	0.	0.234657	-17.8258	-0.01225	0.	0.	0.
Inizio Asta	5D	0.	-8.52144	0.834348	0.000917	-2.58648	26.41648	0.
Fine Asta	5D	0.	-8.52144	0.834348	0.000917	0.	0.	0.
Inizio Asta	6D	0.	-8.46013	-1.81056	-0.00199	5.612740	26.22639	0.
Fine Asta	6D	0.	-8.46013	-1.81056	-0.00199	0.	0.	0.
Inizio Asta	7D	0.	-0.19605	-10.3606	0.010221	32.11775	0.607758	0.
Fine Asta	7D	0.	-0.19605	-10.3606	0.010221	0.	0.	0.
Inizio Asta	8D	0.	0.196051	-14.8786	-0.01022	46.12380	-0.60776	0.
Fine Asta	8D	0.	0.196051	-14.8786	-0.01022	0.	0.	0.
Inizio Asta	9D	0.	-21.6837	2.075438	0.002282	-6.43386	67.21954	0.
Fine Asta	9D	0.	-21.6837	2.075438	0.002282	0.	0.	0.
Inizio Asta	10D	0.	-21.5399	-4.49792	-0.00495	13.94356	66.77379	0.
Fine Asta	10D	0.	-21.5399	-4.49792	-0.00495	0.	0.	0.
Inizio Asta	11D	0.	-0.41742	-21.9862	0.021689	68.15720	1.293995	0.
Fine Asta	11D	0.	-0.41742	-21.9862	0.021689	0.	0.	0.
Inizio Asta	12D	0.	0.417418	-31.5741	-0.02169	97.87961	-1.29400	0.
Fine Asta	12D	0.	0.417418	-31.5741	-0.02169	0.	0.	0.

Beam: 8		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	0.	8.760894	-0.00135	0.	0.
Fine Asta	1S	0.	0.	0.	-8.76089	-0.00135	1.02e-06	0.
Inizio Asta	2S	0.	0.	0.	11.66667	-0.00191	0.	0.
Fine Asta	2S	0.	0.	0.	-11.6667	-0.00191	2.30e-06	0.



Inizio Asta	3S	0.	0.	13.33334	-0.00218	0.	0.
Fine Asta	3S	0.	0.	-13.3333	-0.00218	1.52e-06	0.
Inizio Asta	4S	0.	0.042558	0.	0.	0.	0.
Fine Asta	4S	0.	-0.04256	0.	0.	0.	8.61e-09
Inizio Asta	5S	0.042558	0.	0.	0.	0.	0.
Fine Asta	5S	-0.04256	0.	0.	0.	0.	0.
Inizio Asta	6S	0.042558	0.	0.	0.	0.	0.
Fine Asta	6S	-0.04256	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 9 CdC		N	T2	T3	MT	M2	M3
		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	-33.2513	0.	0.	0.	0.	0.
Fine Asta	1S	-30.6721	0.	0.	0.	0.	0.
Inizio Asta	2S	-35.4711	0.	0.	0.	0.	0.
Fine Asta	2S	-35.4711	0.	0.	0.	0.	0.
Inizio Asta	3S	-40.5384	0.	0.	0.	0.	0.
Fine Asta	3S	-40.5384	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.39480	0.110551	0.000122	-0.34271	1.223884
Fine Asta	4S	0.	-0.39480	0.110551	0.000122	7.93e-09	2.44e-10
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.
Inizio Asta	1D	0.	-9.36798	0.941764	0.001036	-2.91947	29.04075
Fine Asta	1D	0.	-9.36798	0.941764	0.001036	0.	0.
Inizio Asta	2D	0.	-9.76235	-2.04624	-0.00225	6.343358	30.26327
Fine Asta	2D	0.	-9.76235	-2.04624	-0.00225	0.	0.
Inizio Asta	3D	0.	1.660294	-12.4128	0.012245	38.47954	-5.14691
Fine Asta	3D	0.	1.660294	-12.4128	0.012245	0.	0.
Inizio Asta	4D	0.	-1.66029	-17.8258	-0.01225	55.25984	5.146910
Fine Asta	4D	0.	-1.66029	-17.8258	-0.01225	0.	0.
Inizio Asta	5D	0.	-8.39151	0.834348	0.000917	-2.58648	26.01368
Fine Asta	5D	0.	-8.39151	0.834348	0.000917	0.	0.
Inizio Asta	6D	0.	-8.74077	-1.81056	-0.00199	5.612740	27.09638
Fine Asta	6D	0.	-8.74077	-1.81056	-0.00199	0.	0.
Inizio Asta	7D	0.	1.385879	-10.3606	0.010221	32.11775	-4.29622
Fine Asta	7D	0.	1.385879	-10.3606	0.010221	0.	0.
Inizio Asta	8D	0.	-1.38588	-14.8786	-0.01022	46.12380	4.296224
Fine Asta	8D	0.	-1.38588	-14.8786	-0.01022	0.	0.
Inizio Asta	9D	0.	-21.3522	2.075438	0.002282	-6.43386	66.19188
Fine Asta	9D	0.	-21.3522	2.075438	0.002282	0.	0.
Inizio Asta	10D	0.	-22.2559	-4.49792	-0.00495	13.94356	68.99338
Fine Asta	10D	0.	-22.2559	-4.49792	-0.00495	0.	0.
Inizio Asta	11D	0.	2.941504	-21.9862	0.021689	68.15720	-9.11866
Fine Asta	11D	0.	2.941504	-21.9862	0.021689	0.	0.
Inizio Asta	12D	0.	-2.94150	-31.5741	-0.02169	97.87961	9.118661
Fine Asta	12D	0.	-2.94150	-31.5741	-0.02169	0.	0.

Beam: 10 CdC		N	T2	T3	MT	M2	M3
		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	12.78696	0.	0.000238	0.
Fine Asta	1S	0.	0.	9.041386	0.	14.91628	0.
Inizio Asta	2S	0.	0.	13.65612	0.	0.000976	0.
Fine Asta	2S	0.	0.	10.92962	0.	16.80123	0.
Inizio Asta	3S	0.	0.	15.60699	0.	0.001116	0.
Fine Asta	3S	0.	0.	12.49099	0.	19.20141	0.
Inizio Asta	4S	0.002486	0.	0.	0.	0.	0.
Fine Asta	4S	-0.00249	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.54339	0.	0.	0.	0.123773
Fine Asta	5S	0.	0.543394	0.	0.	0.	0.123773
Inizio Asta	6S	0.	0.267967	0.	0.	0.	-0.06104
Fine Asta	6S	0.	-0.26797	0.	0.	0.	-0.06104
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 11 CdC		N	T2	T3	MT	M2	M3
		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	18.96902	0.	-6.57183	0.
Fine Asta	1S	0.	0.	18.14470	0.	18.78922	0.
Inizio Asta	2S	0.	0.	23.32959	0.	-7.39860	0.
Fine Asta	2S	0.	0.	23.32959	0.	24.48518	0.
Inizio Asta	3S	0.	0.	26.66239	0.	-8.45554	0.
Fine Asta	3S	0.	0.	26.66239	0.	27.98306	0.
Inizio Asta	4S	0.	0.	0.	0.	0.	0.
Fine Asta	4S	0.	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.27045	0.	0.	0.	0.061603
Fine Asta	5S	0.	0.270454	0.	0.	0.	0.061603
Inizio Asta	6S	0.	0.540907	0.	0.	0.	-0.12321
Fine Asta	6S	0.	-0.54091	0.	0.	0.	-0.12321
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.

VALBONDIONE
TERRAZZA ESTERNA

FASCICOLO DEI CALCOLI



Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 12		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	14.75999	0.	-7.67514	0.	
Fine Asta	1S	0.	0.	12.14192	0.	10.70783	0.	
Inizio Asta	2S	0.	0.	16.52446	0.	-8.42500	0.	
Fine Asta	2S	0.	0.	14.85030	0.	13.01442	0.	
Inizio Asta	3S	0.	0.	18.88510	0.	-9.62857	0.	
Fine Asta	3S	0.	0.	16.97177	0.	14.87363	0.	
Inizio Asta	4S	0.001527	0.	0.	0.	0.	0.	
Fine Asta	4S	-0.00153	0.	0.	0.	0.	0.	
Inizio Asta	5S	0.	-0.00153	0.	0.	0.	0.000348	
Fine Asta	5S	0.	0.001527	0.	0.	0.	0.000348	
Inizio Asta	6S	0.	-0.00153	0.	0.	0.	0.000348	
Fine Asta	6S	0.	0.001527	0.	0.	0.	0.000348	
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	
Fine Asta	1D	0.	0.	0.	0.	0.	0.	
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	
Fine Asta	2D	0.	0.	0.	0.	0.	0.	
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	
Fine Asta	3D	0.	0.	0.	0.	0.	0.	
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	
Fine Asta	4D	0.	0.	0.	0.	0.	0.	
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	
Fine Asta	5D	0.	0.	0.	0.	0.	0.	
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	
Fine Asta	6D	0.	0.	0.	0.	0.	0.	
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	
Fine Asta	7D	0.	0.	0.	0.	0.	0.	
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	
Fine Asta	8D	0.	0.	0.	0.	0.	0.	
Inizio Asta	9D	0.	0.	0.	0.	0.	0.	
Fine Asta	9D	0.	0.	0.	0.	0.	0.	
Inizio Asta	10D	0.	0.	0.	0.	0.	0.	
Fine Asta	10D	0.	0.	0.	0.	0.	0.	
Inizio Asta	11D	0.	0.	0.	0.	0.	0.	
Fine Asta	11D	0.	0.	0.	0.	0.	0.	
Inizio Asta	12D	0.	0.	0.	0.	0.	0.	
Fine Asta	12D	0.	0.	0.	0.	0.	0.	

Beam: 13		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	7.168715	0.000586	0.	0.	
Fine Asta	1S	0.	0.	-7.16872	0.000586	-6.3e-07	0.	
Inizio Asta	2S	0.	0.	9.566669	0.001011	0.	0.	
Fine Asta	2S	0.	0.	-9.56667	0.001011	-1.4e-06	0.	
Inizio Asta	3S	0.	0.	10.93334	0.001156	0.	0.	
Fine Asta	3S	0.	0.	-10.9333	0.001156	1.58e-06	0.	
Inizio Asta	4S	0.	0.034897	0.	0.	0.	0.	
Fine Asta	4S	0.	-0.03490	0.	0.	0.	3.70e-09	
Inizio Asta	5S	0.034897	0.	0.	0.	0.	0.	
Fine Asta	5S	-0.03490	0.	0.	0.	0.	0.	
Inizio Asta	6S	0.034897	0.	0.	0.	0.	0.	
Fine Asta	6S	-0.03490	0.	0.	0.	0.	0.	
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	
Fine Asta	1D	0.	0.	0.	0.	0.	0.	
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	
Fine Asta	2D	0.	0.	0.	0.	0.	0.	
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	
Fine Asta	3D	0.	0.	0.	0.	0.	0.	
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	
Fine Asta	4D	0.	0.	0.	0.	0.	0.	
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	
Fine Asta	5D	0.	0.	0.	0.	0.	0.	
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	
Fine Asta	6D	0.	0.	0.	0.	0.	0.	
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	
Fine Asta	7D	0.	0.	0.	0.	0.	0.	
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	
Fine Asta	8D	0.	0.	0.	0.	0.	0.	

Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 14		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	8.960895	-0.00062	0.	0.	
Fine Asta	1S	0.	0.	-8.96089	-0.00062	8.54e-07	0.	
Inizio Asta	2S	0.	0.	11.95834	-0.00091	0.	0.	
Fine Asta	2S	0.	0.	-11.9583	-0.00091	1.47e-06	0.	
Inizio Asta	3S	0.	0.	13.66667	-0.00104	0.	0.	
Fine Asta	3S	0.	0.	-13.6667	-0.00104	1.25e-06	0.	
Inizio Asta	4S	0.	0.043622	0.	0.	0.	0.	
Fine Asta	4S	0.	-0.04362	0.	0.	0.	-8.5e-09	
Inizio Asta	5S	0.043622	0.	0.	0.	0.	0.	
Fine Asta	5S	-0.04362	0.	0.	0.	0.	0.	
Inizio Asta	6S	0.043622	0.	0.	0.	0.	0.	
Fine Asta	6S	-0.04362	0.	0.	0.	0.	0.	
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	
Fine Asta	1D	0.	0.	0.	0.	0.	0.	
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	
Fine Asta	2D	0.	0.	0.	0.	0.	0.	
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	
Fine Asta	3D	0.	0.	0.	0.	0.	0.	
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	
Fine Asta	4D	0.	0.	0.	0.	0.	0.	
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	
Fine Asta	5D	0.	0.	0.	0.	0.	0.	
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	
Fine Asta	6D	0.	0.	0.	0.	0.	0.	
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	
Fine Asta	7D	0.	0.	0.	0.	0.	0.	
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	
Fine Asta	8D	0.	0.	0.	0.	0.	0.	
Inizio Asta	9D	0.	0.	0.	0.	0.	0.	
Fine Asta	9D	0.	0.	0.	0.	0.	0.	
Inizio Asta	10D	0.	0.	0.	0.	0.	0.	
Fine Asta	10D	0.	0.	0.	0.	0.	0.	
Inizio Asta	11D	0.	0.	0.	0.	0.	0.	
Fine Asta	11D	0.	0.	0.	0.	0.	0.	
Inizio Asta	12D	0.	0.	0.	0.	0.	0.	
Fine Asta	12D	0.	0.	0.	0.	0.	0.	

Beam: 15		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	1.872671	0.	14.91686	0.	
Fine Asta	1S	0.	0.	-1.87290	0.	14.91671	0.	
Inizio Asta	2S	0.	0.	1.362948	0.	16.80224	0.	
Fine Asta	2S	0.	0.	-1.36355	0.	16.80183	0.	
Inizio Asta	3S	0.	0.	1.557655	0.	19.20256	0.	
Fine Asta	3S	0.	0.	-1.55835	0.	19.20209	0.	
Inizio Asta	4S	0.002486	0.	0.	0.	0.	0.	
Fine Asta	4S	-0.00249	0.	0.	0.	0.	0.	
Inizio Asta	5S	0.	-0.54339	0.	0.	0.	0.123773	
Fine Asta	5S	0.	0.543394	0.	0.	0.	0.123773	
Inizio Asta	6S	0.	0.267967	0.	0.	0.	-0.06104	
Fine Asta	6S	0.	-0.26797	0.	0.	0.	-0.06104	
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	
Fine Asta	1D	0.	0.	0.	0.	0.	0.	
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	
Fine Asta	2D	0.	0.	0.	0.	0.	0.	
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	
Fine Asta	3D	0.	0.	0.	0.	0.	0.	
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	
Fine Asta	4D	0.	0.	0.	0.	0.	0.	
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	
Fine Asta	5D	0.	0.	0.	0.	0.	0.	
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	
Fine Asta	6D	0.	0.	0.	0.	0.	0.	



Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 16		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	0.	2.015086	0.	18.78801	0.
Fine Asta	1S	0.	0.	0.	1.190765	0.	20.97867	0.
Inizio Asta	2S	0.	0.	0.	1.804584	0.	24.48326	0.
Fine Asta	2S	0.	0.	0.	1.804584	0.	26.94953	0.
Inizio Asta	3S	0.	0.	0.	2.062382	0.	27.98087	0.
Fine Asta	3S	0.	0.	0.	2.062382	0.	30.79946	0.
Inizio Asta	4S	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4S	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.27045	0.	0.	0.	0.061603	0.
Fine Asta	5S	0.	0.270454	0.	0.	0.	0.061603	0.
Inizio Asta	6S	0.	0.540907	0.	0.	0.	-0.12321	0.
Fine Asta	6S	0.	-0.54091	0.	0.	0.	-0.12321	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.	0.

Beam: 17		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	0.	3.181022	0.	10.70846	0.
Fine Asta	1S	0.	0.	0.	0.562950	0.	13.26684	0.
Inizio Asta	2S	0.	0.	0.	2.891961	0.	13.01533	0.
Fine Asta	2S	0.	0.	0.	1.217794	0.	15.82367	0.
Inizio Asta	3S	0.	0.	0.	3.305099	0.	14.87467	0.
Fine Asta	3S	0.	0.	0.	1.391765	0.	18.08419	0.
Inizio Asta	4S	0.001527	0.	0.	0.	0.	0.	0.
Fine Asta	4S	-0.00153	0.	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.00153	0.	0.	0.	0.000348	0.
Fine Asta	5S	0.	0.001527	0.	0.	0.	0.000348	0.
Inizio Asta	6S	0.	-0.00153	0.	0.	0.	0.000348	0.
Fine Asta	6S	0.	0.001527	0.	0.	0.	0.000348	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.

Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 18		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	0.	7.168713	-0.00037	0.	0.
Fine Asta	1S	0.	0.	0.	-7.16871	-0.00037	-7.9e-07	0.
Inizio Asta	2S	0.	0.	0.	9.566666	-0.00077	0.	0.
Fine Asta	2S	0.	0.	0.	-9.56667	-0.00077	8.81e-07	0.
Inizio Asta	3S	0.	0.	0.	10.93333	-0.00087	0.	0.
Fine Asta	3S	0.	0.	0.	-10.9333	-0.00087	1.95e-06	0.
Inizio Asta	4S	0.	0.034897	0.	0.	0.	0.	0.
Fine Asta	4S	0.	-0.03490	0.	0.	0.	0.	-6.3e-09
Inizio Asta	5S	0.034897	0.	0.	0.	0.	0.	0.
Fine Asta	5S	-0.03490	0.	0.	0.	0.	0.	0.
Inizio Asta	6S	0.034897	0.	0.	0.	0.	0.	0.
Fine Asta	6S	-0.03490	0.	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.	0.

Beam: 19		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	0.	8.960892	0.000646	0.	0.
Fine Asta	1S	0.	0.	0.	-8.96089	0.000646	1.21e-06	0.
Inizio Asta	2S	0.	0.	0.	11.95833	0.000926	0.	0.
Fine Asta	2S	0.	0.	0.	-11.9583	0.000926	-1.1e-06	0.
Inizio Asta	3S	0.	0.	0.	13.66667	0.001058	0.	0.
Fine Asta	3S	0.	0.	0.	-13.6667	0.001058	1.83e-06	0.
Inizio Asta	4S	0.	0.043622	0.	0.	0.	0.	0.
Fine Asta	4S	0.	-0.04362	0.	0.	0.	0.	-5.0e-09
Inizio Asta	5S	0.043622	0.	0.	0.	0.	0.	0.
Fine Asta	5S	-0.04362	0.	0.	0.	0.	0.	0.
Inizio Asta	6S	0.043622	0.	0.	0.	0.	0.	0.
Fine Asta	6S	-0.04362	0.	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.

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Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 20	CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)		

Inizio Asta	1S	0.	0.	-9.04161	0.	14.91634	0.
Fine Asta	1S	0.	0.	-12.7872	0.	-3.0e-07	0.
Inizio Asta	2S	0.	0.	-10.9302	0.	16.80106	0.
Fine Asta	2S	0.	0.	-13.6567	0.	-9.1e-07	0.
Inizio Asta	3S	0.	0.	-12.4917	0.	19.20122	0.
Fine Asta	3S	0.	0.	-15.6077	0.	7.32e-07	0.
Inizio Asta	4S	0.002486	0.	0.	0.	0.	0.
Fine Asta	4S	-0.00249	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.67924	0.	0.	0.	0.185659
Fine Asta	5S	0.	0.407545	0.	0.	0.	6.95e-09
Inizio Asta	6S	0.	0.334959	0.	0.	0.	-0.09156
Fine Asta	6S	0.	-0.20098	0.	0.	0.	2.72e-09
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 21	CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)		

Inizio Asta	1S	0.	0.	-14.9388	0.	20.97969	0.
Fine Asta	1S	0.	0.	-15.7632	0.	1.72e-07	0.
Inizio Asta	2S	0.	0.	-19.7204	0.	26.95122	0.
Fine Asta	2S	0.	0.	-19.7204	0.	-1.4e-06	0.
Inizio Asta	3S	0.	0.	-22.5376	0.	30.80139	0.
Fine Asta	3S	0.	0.	-22.5376	0.	1.54e-06	0.
Inizio Asta	4S	0.	0.	0.	0.	0.	0.
Fine Asta	4S	0.	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.33807	0.	0.	0.	0.092405
Fine Asta	5S	0.	0.202840	0.	0.	0.	1.41e-09
Inizio Asta	6S	0.	0.676134	0.	0.	0.	-0.18481
Fine Asta	6S	0.	-0.40568	0.	0.	0.	-2.8e-09

Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 22	CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)		

Inizio Asta	1S	0.	0.	-8.39794	0.	13.26619	0.
Fine Asta	1S	0.	0.	-11.0160	0.	-2.7e-07	0.
Inizio Asta	2S	0.	0.	-10.7405	0.	15.82274	0.
Fine Asta	2S	0.	0.	-12.4147	0.	-3.2e-08	0.
Inizio Asta	3S	0.	0.	-12.2749	0.	18.08313	0.
Fine Asta	3S	0.	0.	-14.1882	0.	-2.5e-07	0.
Inizio Asta	4S	0.001527	0.	0.	0.	0.	0.
Fine Asta	4S	-0.00153	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.00191	0.	0.	0.	0.000522
Fine Asta	5S	0.	0.001145	0.	0.	0.	2.24e-11
Inizio Asta	6S	0.	-0.00191	0.	0.	0.	0.000522
Fine Asta	6S	0.	0.001145	0.	0.	0.	2.24e-11
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 23	CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)		

Inizio Asta	1S	-35.3221	0.	0.	0.	0.	0.
Fine Asta	1S	-32.7430	0.	0.	0.	0.	0.
Inizio Asta	2S	-36.8798	0.	0.	0.	0.	0.
Fine Asta	2S	-36.8798	0.	0.	0.	0.	0.
Inizio Asta	3S	-42.1483	0.	0.	0.	0.	0.
Fine Asta	3S	-42.1483	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.42863	0.066366	0.000122	-0.20566	1.328734
Fine Asta	4S	0.	-0.42863	0.066366	0.000122	7.36e-05	-2.2e-05

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Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.
Inizio Asta	1D	0.	-9.62919	0.565362	0.001036	-1.75200	29.85032
Fine Asta	1D	0.	-9.62919	0.565362	0.001036	0.000627	-0.00018
Inizio Asta	2D	0.	-9.20024	-1.22841	-0.00225	3.806696	28.52109
Fine Asta	2D	0.	-9.20024	-1.22841	-0.00225	-0.00136	0.000400
Inizio Asta	3D	0.	-1.74795	-10.3668	0.012245	32.13479	5.416460
Fine Asta	3D	0.	-1.74795	-10.3668	0.012245	0.007416	-0.00218
Inizio Asta	4D	0.	1.747947	-14.3433	-0.01225	44.45896	-5.41646
Fine Asta	4D	0.	1.747947	-14.3433	-0.01225	-0.00742	0.002175
Inizio Asta	5D	0.	-8.62573	0.500878	0.000917	-1.55217	26.73962
Fine Asta	5D	0.	-8.62573	0.500878	0.000917	0.000556	-0.00016
Inizio Asta	6D	0.	-8.23685	-1.08692	-0.00199	3.368247	25.53455
Fine Asta	6D	0.	-8.23685	-1.08692	-0.00199	-0.00121	0.000354
Inizio Asta	7D	0.	-1.45895	-8.65283	0.010221	26.82197	4.520918
Fine Asta	7D	0.	-1.45895	-8.65283	0.010221	0.006190	-0.00182
Inizio Asta	8D	0.	1.458946	-11.9720	-0.01022	37.10860	-4.52092
Fine Asta	8D	0.	1.458946	-11.9720	-0.01022	-0.00619	0.001815
Inizio Asta	9D	0.	-21.9496	1.245931	0.002282	-3.86101	68.04334
Fine Asta	9D	0.	-21.9496	1.245931	0.002282	0.001382	-0.00041
Inizio Asta	10D	0.	-20.9692	-2.70020	-0.00495	8.367631	65.00535
Fine Asta	10D	0.	-20.9692	-2.70020	-0.00495	-0.00300	0.000879
Inizio Asta	11D	0.	-3.09598	-18.3622	0.021689	56.91900	9.593673
Fine Asta	11D	0.	-3.09598	-18.3622	0.021689	0.013136	-0.00385
Inizio Asta	12D	0.	3.095976	-25.4058	-0.02169	78.74840	-9.59367
Fine Asta	12D	0.	3.095976	-25.4058	-0.02169	-0.01314	0.003853

Beam: 24	CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	7.168715	0.	0.	0.
Fine Asta	1S	0.	0.	-7.16872	0.	-6.3e-07	0.
Inizio Asta	2S	0.	0.	9.566669	0.	0.	0.
Fine Asta	2S	0.	0.	-9.56667	0.	-1.4e-06	0.
Inizio Asta	3S	0.	0.	10.93334	0.	0.	0.
Fine Asta	3S	0.	0.	-10.9333	0.	1.58e-06	0.
Inizio Asta	4S	0.	0.034897	0.	-2.2e-05	0.	0.
Fine Asta	4S	0.	-0.03490	0.	-2.2e-05	0.	3.70e-09
Inizio Asta	5S	0.034897	0.	0.	0.	0.	0.
Fine Asta	5S	-0.03490	0.	0.	0.	0.	0.
Inizio Asta	6S	0.034897	0.	0.	0.	0.	0.
Fine Asta	6S	-0.03490	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	-0.00018	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00018	0.	0.
Inizio Asta	2D	0.	0.	0.	0.000400	0.	0.
Fine Asta	2D	0.	0.	0.	0.000400	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00218	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00218	0.	0.
Inizio Asta	4D	0.	0.	0.	0.002175	0.	0.
Fine Asta	4D	0.	0.	0.	0.002175	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00016	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00016	0.	0.
Inizio Asta	6D	0.	0.	0.	0.000354	0.	0.
Fine Asta	6D	0.	0.	0.	0.000354	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00182	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00182	0.	0.
Inizio Asta	8D	0.	0.	0.	0.001815	0.	0.
Fine Asta	8D	0.	0.	0.	0.001815	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00041	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00041	0.	0.
Inizio Asta	10D	0.	0.	0.	0.000879	0.	0.
Fine Asta	10D	0.	0.	0.	0.000879	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.00385	0.	0.
Fine Asta	11D	0.	0.	0.	-0.00385	0.	0.
Inizio Asta	12D	0.	0.	0.	0.003853	0.	0.
Fine Asta	12D	0.	0.	0.	0.003853	0.	0.

Beam: 25	CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	-51.8380	0.	0.	0.	0.	0.
Fine Asta	1S	-49.2588	0.	0.	0.	0.	0.
Inizio Asta	2S	-62.7704	0.	0.	0.	0.	0.
Fine Asta	2S	-62.7704	0.	0.	0.	0.	0.

Inizio Asta	3S	-71.7376	0.	0.	0.	0.	0.
Fine Asta	3S	-71.7376	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.41359	0.066366	0.000122	-0.20566	1.282128
Fine Asta	4S	0.	-0.41359	0.066366	0.000122	7.36e-05	2.16e-08
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.
Inizio Asta	1D	0.	-9.51286	0.565362	0.001036	-1.75200	29.48987
Fine Asta	1D	0.	-9.51286	0.565362	0.001036	0.000627	-8.5e-09
Inizio Asta	2D	0.	-9.44917	-1.22841	-0.00225	3.806696	29.29241
Fine Asta	2D	0.	-9.44917	-1.22841	-0.00225	-0.00136	1.85e-08
Inizio Asta	3D	0.	-0.23466	-10.3668	0.012245	32.13479	0.727436
Fine Asta	3D	0.	-0.23466	-10.3668	0.012245	0.007416	-1.0e-07
Inizio Asta	4D	0.	0.234657	-14.3433	-0.01225	44.45896	-0.72744
Fine Asta	4D	0.	0.234657	-14.3433	-0.01225	-0.00742	1.01e-07
Inizio Asta	5D	0.	-8.52144	0.500878	0.000917	-1.55217	26.41648
Fine Asta	5D	0.	-8.52144	0.500878	0.000917	0.000556	-7.5e-09
Inizio Asta	6D	0.	-8.46013	-1.08692	-0.00199	3.368247	26.22639
Fine Asta	6D	0.	-8.46013	-1.08692	-0.00199	-0.00121	1.64e-08
Inizio Asta	7D	0.	-0.19605	-8.65283	0.010221	26.82197	0.607758
Fine Asta	7D	0.	-0.19605	-8.65283	0.010221	0.006190	-8.4e-08
Inizio Asta	8D	0.	0.196051	-11.9720	-0.01022	37.10860	-0.60776
Fine Asta	8D	0.	0.196051	-11.9720	-0.01022	-0.00619	8.41e-08
Inizio Asta	9D	0.	-21.6837	1.245931	0.002282	-3.86101	67.21954
Fine Asta	9D	0.	-21.6837	1.245931	0.002282	0.001382	-1.9e-08
Inizio Asta	10D	0.	-21.5399	-2.70020	-0.00495	8.367631	66.77379
Fine Asta	10D	0.	-21.5399	-2.70020	-0.00495	-0.00300	4.07e-08
Inizio Asta	11D	0.	-0.41742	-18.3622	0.021689	56.91900	1.293995
Fine Asta	11D	0.	-0.41742	-18.3622	0.021689	0.013136	-1.8e-07
Inizio Asta	12D	0.	0.417418	-25.4058	-0.02169	78.74840	-1.29400
Fine Asta	12D	0.	0.417418	-25.4058	-0.02169	-0.01314	1.78e-07

Beam: 26	CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	8.960895	0.	0.	0.
Fine Asta	1S	0.	0.	-8.96089	0.	8.54e-07	0.
Inizio Asta	2S	0.	0.	11.95834	0.	0.	0.
Fine Asta	2S	0.	0.	-11.9583	0.	1.47e-06	0.
Inizio Asta	3S	0.	0.	13.66667	0.	0.	0.
Fine Asta	3S	0.	0.	-13.6667	0.	1.25e-06	0.
Inizio Asta	4S	0.	0.043622	0.	-2.2e-05	0.	0.
Fine Asta	4S	0.	-0.04362	0.	-2.2e-05	0.	-8.5e-09
Inizio Asta	5S	0.043622	0.	0.	0.	0.	0.
Fine Asta	5S	-0.04362	0.	0.	0.	0.	0.
Inizio Asta	6S	0.043622	0.	0.	0.	0.	0.
Fine Asta	6S	-0.04362	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	-0.00018	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00018	0.	0.
Inizio Asta	2D	0.	0.	0.	0.000400	0.	0.
Fine Asta	2D	0.	0.	0.	0.000400	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00218	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00218	0.	0.
Inizio Asta	4D	0.	0.	0.	0.002175	0.	0.
Fine Asta	4D	0.	0.	0.	0.002175	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00016	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00016	0.	0.
Inizio Asta	6D	0.	0.	0.	0.000354	0.	0.
Fine Asta	6D	0.	0.	0.	0.000354	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00182	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00182	0.	0.
Inizio Asta	8D	0.	0.	0.	0.001816	0.	0.
Fine Asta	8D	0.	0.	0.	0.001816	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00041	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00041	0.	0.
Inizio Asta	10D	0.	0.	0.	0.000879	0.	0.
Fine Asta	10D	0.	0.	0.	0.000879	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.00385	0.	0.
Fine Asta	11D	0.	0.	0.	-0.00385	0.	0.
Inizio Asta	12D	0.	0.	0.	0.003853	0.	0.
Fine Asta	12D	0.	0.	0.	0.003853	0.	0.

VALBONDIONE
TERRAZZA ESTERNA

FASCICOLO DEI CALCOLI



Beam: 27	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	-35.4441	0.	0.	0.	0.	0.
Fine Asta	1S	-32.8649	0.	0.	0.	0.	0.
Inizio Asta	2S	-38.8426	0.	0.	0.	0.	0.
Fine Asta	2S	-38.8426	0.	0.	0.	0.	0.
Inizio Asta	3S	-44.3916	0.	0.	0.	0.	0.
Fine Asta	3S	-44.3916	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.39479	0.066366	0.000122	-0.20566	1.223873
Fine Asta	4S	0.	-0.39479	0.066366	0.000122	7.36e-05	2.16e-05
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.
Inizio Asta	1D	0.	-9.36790	0.565362	0.001036	-1.75200	29.04067
Fine Asta	1D	0.	-9.36790	0.565362	0.001036	0.000627	0.000184
Inizio Asta	2D	0.	-9.76252	-1.22841	-0.00225	3.806696	30.26345
Fine Asta	2D	0.	-9.76252	-1.22841	-0.00225	-0.00136	-0.00040
Inizio Asta	3D	0.	1.661346	-10.3668	0.012245	32.13479	-5.14800
Fine Asta	3D	0.	1.661346	-10.3668	0.012245	0.007416	0.002175
Inizio Asta	4D	0.	-1.66135	-14.3433	-0.01225	44.45896	5.147997
Fine Asta	4D	0.	-1.66135	-14.3433	-0.01225	-0.00742	-0.00218
Inizio Asta	5D	0.	-8.39144	0.500878	0.000917	-1.55217	26.01361
Fine Asta	5D	0.	-8.39144	0.500878	0.000917	0.000556	0.000163
Inizio Asta	6D	0.	-8.74093	-1.08692	-0.00199	3.368247	27.09655
Fine Asta	6D	0.	-8.74093	-1.08692	-0.00199	-0.00121	-0.00035
Inizio Asta	7D	0.	1.386757	-8.65283	0.010221	26.82197	-4.29713
Fine Asta	7D	0.	1.386757	-8.65283	0.010221	0.006190	0.001816
Inizio Asta	8D	0.	-1.38676	-11.9720	-0.01022	37.10860	4.297131
Fine Asta	8D	0.	-1.38676	-11.9720	-0.01022	-0.00619	-0.00182
Inizio Asta	9D	0.	-21.3520	1.245931	0.002282	-3.86101	66.19169
Fine Asta	9D	0.	-21.3520	1.245931	0.002282	0.001382	0.000405
Inizio Asta	10D	0.	-22.2563	-2.70020	-0.00495	8.367631	68.99378
Fine Asta	10D	0.	-22.2563	-2.70020	-0.00495	-0.00300	-0.00088
Inizio Asta	11D	0.	2.943367	-18.3622	0.021689	56.91900	-9.12059
Fine Asta	11D	0.	2.943367	-18.3622	0.021689	0.013136	0.003853
Inizio Asta	12D	0.	-2.94337	-25.4058	-0.02169	78.74840	9.120586
Fine Asta	12D	0.	-2.94337	-25.4058	-0.02169	-0.01314	-0.00385

Beam: 28	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	12.78707	0.	0.	0.
Fine Asta	1S	0.	0.	9.041491	0.	14.91619	0.
Inizio Asta	2S	0.	0.	13.65641	0.	0.	0.
Fine Asta	2S	0.	0.	10.92991	0.	16.80067	0.
Inizio Asta	3S	0.	0.	15.60733	0.	0.	0.
Fine Asta	3S	0.	0.	12.49132	0.	19.20076	0.
Inizio Asta	4S	0.002486	0.	0.	-7.4e-05	0.	0.
Fine Asta	4S	-0.00249	0.	0.	-7.4e-05	0.	0.
Inizio Asta	5S	0.	-0.40755	0.	0.	0.	0.
Fine Asta	5S	0.	0.679243	0.	0.	0.	0.185660
Inizio Asta	6S	0.	0.200976	0.	0.	0.	0.
Fine Asta	6S	0.	-0.33496	0.	0.	0.	-0.09156
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.

Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.

Beam: 29	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	17.36608	0.	0.	0.
Fine Asta	1S	0.	0.	16.54176	0.	23.17038	0.
Inizio Asta	2S	0.	0.	21.52499	0.	0.	0.
Fine Asta	2S	0.	0.	21.52499	0.	29.41752	0.
Inizio Asta	3S	0.	0.	24.59999	0.	0.	0.
Fine Asta	3S	0.	0.	24.59999	0.	33.62002	0.
Inizio Asta	4S	0.	0.	0.	-7.4e-05	0.	0.
Fine Asta	4S	0.	0.	0.	-7.4e-05	0.	0.
Inizio Asta	5S	0.	-0.20284	0.	0.	0.	0.
Fine Asta	5S	0.	0.338067	0.	0.	0.	0.092405
Inizio Asta	6S	0.	0.405681	0.	0.	0.	0.
Fine Asta	6S	0.	-0.67613	0.	0.	0.	-0.18481
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.

Beam: 30	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	12.88799	0.	0.	0.
Fine Asta	1S	0.	0.	10.26992	0.	15.82459	0.
Inizio Asta	2S	0.	0.	14.46958	0.	0.	0.
Fine Asta	2S	0.	0.	12.79541	0.	18.63109	0.
Inizio Asta	3S	0.	0.	16.53666	0.	0.	0.
Fine Asta	3S	0.	0.	14.62332	0.	21.29268	0.
Inizio Asta	4S	0.001527	0.	0.	-7.4e-05	0.	0.
Fine Asta	4S	-0.00153	0.	0.	-7.4e-05	0.	0.
Inizio Asta	5S	0.	-0.00115	0.	0.	0.	0.
Fine Asta	5S	0.	0.001908	0.	0.	0.	0.000522
Inizio Asta	6S	0.	-0.00115	0.	0.	0.	0.
Fine Asta	6S	0.	0.001908	0.	0.	0.	0.000522
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.



Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.

Beam: 31		CdC		N	T2	T3	MT	M2	M3
				(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler		QW2	QW3	P2	P3				
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)				
Inizio Asta	1S	0.	0.	7.168718	0.000819	0.	0.		
Fine Asta	1S	0.	0.	-7.16872	0.000819	-4.6e-07	0.		
Inizio Asta	2S	0.	0.	9.566673	0.001272	0.	0.		
Fine Asta	2S	0.	0.	-9.56667	0.001272	2.25e-07	0.		
Inizio Asta	3S	0.	0.	10.93334	0.001454	0.	0.		
Fine Asta	3S	0.	0.	-10.9333	0.001454	1.20e-06	0.		
Inizio Asta	4S	0.	0.034897	0.	0.	0.	0.		
Fine Asta	4S	0.	-0.03490	0.	0.	0.	0.	-1.6e-09	
Inizio Asta	5S	0.034897	0.	0.	0.	0.	0.		
Fine Asta	5S	-0.03490	0.	0.	0.	0.	0.		
Inizio Asta	6S	0.034897	0.	0.	0.	0.	0.		
Fine Asta	6S	-0.03490	0.	0.	0.	0.	0.		
Inizio Asta	1D	0.	0.	0.	0.	0.	0.		
Fine Asta	1D	0.	0.	0.	0.	0.	0.		
Inizio Asta	2D	0.	0.	0.	0.	0.	0.		
Fine Asta	2D	0.	0.	0.	0.	0.	0.		
Inizio Asta	3D	0.	0.	0.	0.	0.	0.		
Fine Asta	3D	0.	0.	0.	0.	0.	0.		
Inizio Asta	4D	0.	0.	0.	0.	0.	0.		
Fine Asta	4D	0.	0.	0.	0.	0.	0.		
Inizio Asta	5D	0.	0.	0.	0.	0.	0.		
Fine Asta	5D	0.	0.	0.	0.	0.	0.		
Inizio Asta	6D	0.	0.	0.	0.	0.	0.		
Fine Asta	6D	0.	0.	0.	0.	0.	0.		
Inizio Asta	7D	0.	0.	0.	0.	0.	0.		
Fine Asta	7D	0.	0.	0.	0.	0.	0.		
Inizio Asta	8D	0.	0.	0.	0.	0.	0.		
Fine Asta	8D	0.	0.	0.	0.	0.	0.		
Inizio Asta	9D	0.	0.	0.	0.	0.	0.		
Fine Asta	9D	0.	0.	0.	0.	0.	0.		
Inizio Asta	10D	0.	0.	0.	0.	0.	0.		
Fine Asta	10D	0.	0.	0.	0.	0.	0.		
Inizio Asta	11D	0.	0.	0.	0.	0.	0.		
Fine Asta	11D	0.	0.	0.	0.	0.	0.		
Inizio Asta	12D	0.	0.	0.	0.	0.	0.		
Fine Asta	12D	0.	0.	0.	0.	0.	0.		

Beam: 32		CdC		N	T2	T3	MT	M2	M3
				(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler		QW2	QW3	P2	P3				
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)				
Inizio Asta	1S	0.	0.	8.960897	-0.00059	0.	0.		
Fine Asta	1S	0.	0.	-8.96090	-0.00059	5.02e-07	0.		
Inizio Asta	2S	0.	0.	11.95834	-0.00087	0.	0.		
Fine Asta	2S	0.	0.	-11.9583	-0.00087	-8.7e-07	0.		
Inizio Asta	3S	0.	0.	13.66668	-0.0010	0.	0.		
Fine Asta	3S	0.	0.	-13.6667	-0.0010	6.61e-07	0.		
Inizio Asta	4S	0.	0.043622	0.	0.	0.	0.		
Fine Asta	4S	0.	-0.04362	0.	0.	0.	0.	7.04e-09	
Inizio Asta	5S	0.043622	0.	0.	0.	0.	0.		
Fine Asta	5S	-0.04362	0.	0.	0.	0.	0.		
Inizio Asta	6S	0.043622	0.	0.	0.	0.	0.		
Fine Asta	6S	-0.04362	0.	0.	0.	0.	0.		
Inizio Asta	1D	0.	0.	0.	0.	0.	0.		
Fine Asta	1D	0.	0.	0.	0.	0.	0.		
Inizio Asta	2D	0.	0.	0.	0.	0.	0.		
Fine Asta	2D	0.	0.	0.	0.	0.	0.		
Inizio Asta	3D	0.	0.	0.	0.	0.	0.		
Fine Asta	3D	0.	0.	0.	0.	0.	0.		
Inizio Asta	4D	0.	0.	0.	0.	0.	0.		
Fine Asta	4D	0.	0.	0.	0.	0.	0.		
Inizio Asta	5D	0.	0.	0.	0.	0.	0.		
Fine Asta	5D	0.	0.	0.	0.	0.	0.		
Inizio Asta	6D	0.	0.	0.	0.	0.	0.		
Fine Asta	6D	0.	0.	0.	0.	0.	0.		

Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 33		CdC		N	T2	T3	MT	M2	M3
				(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler		QW2	QW3	P2	P3				
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)				
Inizio Asta	1S	0.	0.	1.872773	0.	14.91701	0.		
Fine Asta	1S	0.	0.	-1.87280	0.	14.91700	0.		
Inizio Asta	2S	0.	0.	1.363236	0.	16.80194	0.		
Fine Asta	2S	0.	0.	-1.36326	0.	16.80192	0.		
Inizio Asta	3S	0.	0.	1.557984	0.	19.20222	0.		
Fine Asta	3S	0.	0.	-1.55802	0.	19.20220	0.		
Inizio Asta	4S	0.002486	0.	0.	-7.4e-05	0.	0.		
Fine Asta	4S	-0.00249	0.	0.	-7.4e-05	0.	0.		
Inizio Asta	5S	0.	-0.54339	0.	0.	0.	0.123773		
Fine Asta	5S	0.	0.543394	0.	0.	0.	0.123773		
Inizio Asta	6S	0.	0.267967	0.	0.	0.	-0.06104		
Fine Asta	6S	0.	-0.26797	0.	0.	0.	-0.06104		
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.		
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.		
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.		
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.		
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.		
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.		
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.		
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.		
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.		
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.		
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.		
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.		
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.		
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.		
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.		
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.		
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.		
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.		
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.		
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.		
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.		
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.		
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.		
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.		

Beam: 34		CdC		N	T2	T3	MT	M2	M3
				(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler		QW2	QW3	P2	P3				
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)				
Inizio Asta	1S	0.	0.	0.412143	0.	23.16897	0.		
Fine Asta	1S	0.	0.	-0.41218	0.	23.16895	0.		
Inizio Asta	2S	0.	0.	-2.3e-05	0.	29.41537	0.		
Fine Asta	2S	0.	0.	-2.3e-05	0.	29.41534	0.		
Inizio Asta	3S	0.	0.	-2.6e-05	0.	33.61756	0.		
Fine Asta	3S	0.	0.	-2.6e-05	0.	33.61753	0.		
Inizio Asta	4S	0.	0.	0.	-7.4e-05	0.	0.		
Fine Asta	4S	0.	0.	0.	-7.4e-05	0.	0.		
Inizio Asta	5S	0.	-0.27045	0.	0.	0.	0.061603		
Fine Asta	5S	0.	0.270454	0.	0.	0.	0.061603		
Inizio Asta	6S	0.	0.540907	0.	0.	0.	-0.12321		
Fine Asta	6S	0.	-0.54091	0.	0.	0.	-0.12321		
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.		
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.		
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.		
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.		
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.		
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.		
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.		
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.		

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Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.

Beam: 35	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	1.309023	0.	15.82518	0.
Fine Asta	1S	0.	0.	-1.30905	0.	15.82516	0.
Inizio Asta	2S	0.	0.	0.837069	0.	18.63197	0.
Fine Asta	2S	0.	0.	-0.83710	0.	18.63195	0.
Inizio Asta	3S	0.	0.	0.956650	0.	21.29368	0.
Fine Asta	3S	0.	0.	-0.95668	0.	21.29365	0.
Inizio Asta	4S	0.001527	0.	0.	-7.4e-05	0.	0.
Fine Asta	4S	-0.00153	0.	0.	-7.4e-05	0.	0.
Inizio Asta	5S	0.	-0.00153	0.	0.	0.000348	0.
Fine Asta	5S	0.	0.001527	0.	0.	0.000348	0.
Inizio Asta	6S	0.	-0.00153	0.	0.	0.000348	0.
Fine Asta	6S	0.	0.001527	0.	0.	0.000348	0.
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.

Beam: 36	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	7.168711	-0.00082	0.	0.
Fine Asta	1S	0.	0.	-7.16871	-0.00082	9.96e-07	0.
Inizio Asta	2S	0.	0.	9.566662	-0.00127	0.	0.
Fine Asta	2S	0.	0.	-9.56666	-0.00127	-7.4e-07	0.
Inizio Asta	3S	0.	0.	10.93333	-0.00145	0.	0.
Fine Asta	3S	0.	0.	-10.93333	-0.00145	-1.6e-06	0.
Inizio Asta	4S	0.	0.034897	0.	0.	0.	0.
Fine Asta	4S	0.	-0.03490	0.	0.	0.	-9.8e-10
Inizio Asta	5S	0.034897	0.	0.	0.	0.	0.
Fine Asta	5S	-0.03490	0.	0.	0.	0.	0.
Inizio Asta	6S	0.034897	0.	0.	0.	0.	0.
Fine Asta	6S	-0.03490	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.

Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 37	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	8.960889	0.000590	0.	0.
Fine Asta	1S	0.	0.	-8.96089	0.000590	1.56e-06	0.
Inizio Asta	2S	0.	0.	11.95833	0.000875	0.	0.
Fine Asta	2S	0.	0.	-11.9583	0.000875	1.28e-06	0.
Inizio Asta	3S	0.	0.	13.66666	0.001000	0.	0.
Fine Asta	3S	0.	0.	-13.6667	0.001000	2.42e-06	0.
Inizio Asta	4S	0.	0.043622	0.	0.	0.	0.
Fine Asta	4S	0.	-0.04362	0.	0.	0.	-1.5e-09
Inizio Asta	5S	0.043622	0.	0.	0.	0.	0.
Fine Asta	5S	-0.04362	0.	0.	0.	0.	0.
Inizio Asta	6S	0.043622	0.	0.	0.	0.	0.
Fine Asta	6S	-0.04362	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 38	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	-9.04151	0.	14.91618	0.
Fine Asta	1S	0.	0.	-12.7871	0.	2.94e-07	0.
Inizio Asta	2S	0.	0.	-10.9299	0.	16.80065	0.
Fine Asta	2S	0.	0.	-13.6564	0.	-2.0e-07	0.
Inizio Asta	3S	0.	0.	-12.4913	0.	19.20075	0.
Fine Asta	3S	0.	0.	-15.6073	0.	-5.5e-07	0.
Inizio Asta	4S	0.002486	0.	0.	-7.4e-05	0.	0.
Fine Asta	4S	-0.00249	0.	0.	-7.4e-05	0.	0.
Inizio Asta	5S	0.	-0.67924	0.	0.	0.	0.185659
Fine Asta	5S	0.	0.407545	0.	0.	0.	-1.5e-08
Inizio Asta	6S	0.	0.334959	0.	0.	0.	-0.09156
Fine Asta	6S	0.	-0.20098	0.	0.	0.	2.85e-09

VALBONDIONE
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FASCICOLO DEI CALCOLI



Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.

Beam: 39		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	-16.5418	0.	23.17035	0.	
Fine Asta	1S	0.	0.	-17.3661	0.	-6.4e-07	0.	
Inizio Asta	2S	0.	0.	-21.5250	0.	29.41748	0.	
Fine Asta	2S	0.	0.	-21.5250	0.	-8.1e-07	0.	
Inizio Asta	3S	0.	0.	-24.6000	0.	33.61998	0.	
Fine Asta	3S	0.	0.	-24.6000	0.	-3.5e-07	0.	
Inizio Asta	4S	0.	0.	0.	-7.4e-05	0.	0.	
Fine Asta	4S	0.	0.	0.	-7.4e-05	0.	0.	
Inizio Asta	5S	0.	-0.33807	0.	0.	0.	0.092405	
Fine Asta	5S	0.	0.202840	0.	0.	0.	-8.4e-09	
Inizio Asta	6S	0.	0.676133	0.	0.	0.	-0.18481	
Fine Asta	6S	0.	-0.40568	0.	0.	0.	1.68e-08	
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.	
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.	
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.	
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.	
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.	
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.	
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.	
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.	
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.	
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.	
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.	
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.	
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.	
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.	
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.	
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.	
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.	
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.	
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.	
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.	
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.	
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.	
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.	
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.	

Beam: 40		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	-10.2699	0.	15.82457	0.	
Fine Asta	1S	0.	0.	-12.8880	0.	-4.6e-07	0.	
Inizio Asta	2S	0.	0.	-12.7954	0.	18.63107	0.	
Fine Asta	2S	0.	0.	-14.4696	0.	-1.0e-06	0.	
Inizio Asta	3S	0.	0.	-14.6233	0.	21.29265	0.	
Fine Asta	3S	0.	0.	-16.5367	0.	-7.4e-07	0.	
Inizio Asta	4S	0.001527	0.	0.	-7.4e-05	0.	0.	
Fine Asta	4S	-0.00153	0.	0.	-7.4e-05	0.	0.	

Inizio Asta	5S	0.	-0.00191	0.	0.	0.	0.000522
Fine Asta	5S	0.	0.001145	0.	0.	0.	3.89e-11
Inizio Asta	6S	0.	-0.00191	0.	0.	0.	0.000522
Fine Asta	6S	0.	0.001145	0.	0.	0.	3.89e-11
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.

Beam: 41		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	-35.3220	0.	0.	0.	0.	0.	
Fine Asta	1S	-32.7429	0.	0.	0.	0.	0.	
Inizio Asta	2S	-36.8795	0.	0.	0.	0.	0.	
Fine Asta	2S	-36.8795	0.	0.	0.	0.	0.	
Inizio Asta	3S	-42.1480	0.	0.	0.	0.	0.	
Fine Asta	3S	-42.1480	0.	0.	0.	0.	0.	
Inizio Asta	4S	0.	-0.42863	0.022110	0.000122	-0.06854	1.328734	
Fine Asta	4S	0.	-0.42863	0.022110	0.000122	1.86e-08	-2.2e-05	
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.	
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.	
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.	
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.	
Inizio Asta	1D	0.	-9.62919	0.188353	0.001036	-0.58389	29.85032	
Fine Asta	1D	0.	-9.62919	0.188353	0.001036	1.68e-07	-0.00018	
Inizio Asta	2D	0.	-9.20024	-0.40925	-0.00225	1.268672	28.52109	
Fine Asta	2D	0.	-9.20024	-0.40925	-0.00225	-3.7e-07	0.000400	
Inizio Asta	3D	0.	-1.74795	-10.0251	0.012245	31.07770	5.416460	
Fine Asta	3D	0.	-1.74795	-10.0251	0.012245	1.99e-06	-0.00218	
Inizio Asta	4D	0.	1.747947	-11.5429	-0.01225	35.78293	-5.41646	
Fine Asta	4D	0.	1.747947	-11.5429	-0.01225	-2.0e-06	0.002175	
Inizio Asta	5D	0.	-8.62573	0.166870	0.000917	-0.51730	26.73962	
Fine Asta	5D	0.	-8.62573	0.166870	0.000917	1.49e-07	-0.00016	
Inizio Asta	6D	0.	-8.23685	-0.36211	-0.00199	1.122548	25.53455	
Fine Asta	6D	0.	-8.23685	-0.36211	-0.00199	-3.2e-07	0.000354	
Inizio Asta	7D	0.	-1.45895	-8.36763	0.010221	25.93965	4.520918	
Fine Asta	7D	0.	-1.45895	-8.36763	0.010221	1.66e-06	-0.00182	
Inizio Asta	8D	0.	1.458946	-9.63451	-0.01022	29.86698	-4.52092	
Fine Asta	8D	0.	1.458946	-9.63451	-0.01022	-1.7e-06	0.001815	
Inizio Asta	9D	0.	-21.9496	0.415088	0.002282	-1.28677	68.04334	
Fine Asta	9D	0.	-21.9496	0.415088	0.002282	3.71e-07	-0.00041	
Inizio Asta	10D	0.	-20.9692	-0.89958	-0.00495	2.788711	65.00535	
Fine Asta	10D	0.	-20.9692	-0.89958	-0.00495	-8.0e-07	0.000879	
Inizio Asta	11D	0.	-3.09598	-17.7570	0.021689	55.04664	9.593673	
Fine Asta	11D	0.	-3.09598	-17.7570	0.021689	3.53e-06	-0.00385	
Inizio Asta	12D	0.	3.095976	-20.4454	-0.02169	63.38088	-9.59367	
Fine Asta	12D	0.	3.095976	-20.4454	-0.02169	-3.5e-06	0.003853	

Beam: 42		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	7.168715	0.	0.	0.	
Fine Asta	1S	0.	0.	-7.16872	0.	-6.3e-07	0.	
Inizio Asta	2S	0.	0.	9.566669	0.	0.	0.	
Fine Asta	2S	0.	0.	-9.56667	0.	-1.4e-06	0.	



Inizio Asta	3S	0.	0.	10.93334	0.	0.	0.
Fine Asta	3S	0.	0.	-10.9333	0.	1.58e-06	0.
Inizio Asta	4S	0.	0.034897	0.	-2.2e-05	0.	0.
Fine Asta	4S	0.	-0.03490	0.	-2.2e-05	0.	3.70e-09
Inizio Asta	5S	0.034897	0.	0.	0.	0.	0.
Fine Asta	5S	-0.03490	0.	0.	0.	0.	0.
Inizio Asta	6S	0.034897	0.	0.	0.	0.	0.
Fine Asta	6S	-0.03490	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	-0.00018	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00018	0.	0.
Inizio Asta	2D	0.	0.	0.	0.000400	0.	0.
Fine Asta	2D	0.	0.	0.	0.000400	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00218	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00218	0.	0.
Inizio Asta	4D	0.	0.	0.	0.002175	0.	0.
Fine Asta	4D	0.	0.	0.	0.002175	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00016	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00016	0.	0.
Inizio Asta	6D	0.	0.	0.	0.000354	0.	0.
Fine Asta	6D	0.	0.	0.	0.000354	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00182	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00182	0.	0.
Inizio Asta	8D	0.	0.	0.	0.001815	0.	0.
Fine Asta	8D	0.	0.	0.	0.001815	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00041	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00041	0.	0.
Inizio Asta	10D	0.	0.	0.	0.000879	0.	0.
Fine Asta	10D	0.	0.	0.	0.000879	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.00385	0.	0.
Fine Asta	11D	0.	0.	0.	-0.00385	0.	0.
Inizio Asta	12D	0.	0.	0.	0.003853	0.	0.
Fine Asta	12D	0.	0.	0.	0.003853	0.	0.

Beam: 43 CdC		N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	-53.4409	0.	0.	0.	0.	0.
Fine Asta	1S	-50.8618	0.	0.	0.	0.	0.
Inizio Asta	2S	-64.5750	0.	0.	0.	0.	0.
Fine Asta	2S	-64.5750	0.	0.	0.	0.	0.
Inizio Asta	3S	-73.8000	0.	0.	0.	0.	0.
Fine Asta	3S	-73.8000	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.41359	0.022110	0.000122	-0.06854	1.282128
Fine Asta	4S	0.	-0.41359	0.022110	0.000122	1.86e-08	2.16e-08
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.
Inizio Asta	1D	0.	-9.51286	0.188353	0.001036	-0.58389	29.48987
Fine Asta	1D	0.	-9.51286	0.188353	0.001036	1.68e-07	-8.5e-09
Inizio Asta	2D	0.	-9.44917	-0.40925	-0.00225	1.268672	29.29241
Fine Asta	2D	0.	-9.44917	-0.40925	-0.00225	-3.7e-07	1.85e-08
Inizio Asta	3D	0.	-0.23466	-10.0251	0.012245	31.07770	0.727436
Fine Asta	3D	0.	-0.23466	-10.0251	0.012245	1.99e-06	-1.0e-07
Inizio Asta	4D	0.	0.234657	-11.5429	-0.01225	35.78293	-0.72744
Fine Asta	4D	0.	0.234657	-11.5429	-0.01225	-2.0e-06	1.01e-07
Inizio Asta	5D	0.	-8.52144	0.166870	0.000917	-0.51730	26.41648
Fine Asta	5D	0.	-8.52144	0.166870	0.000917	1.49e-07	-7.5e-09
Inizio Asta	6D	0.	-8.46013	-0.36211	-0.00199	1.122548	26.22639
Fine Asta	6D	0.	-8.46013	-0.36211	-0.00199	-3.2e-07	1.64e-08
Inizio Asta	7D	0.	-0.19605	-8.36763	0.010221	25.93965	0.607758
Fine Asta	7D	0.	-0.19605	-8.36763	0.010221	1.66e-06	-8.4e-08
Inizio Asta	8D	0.	0.196051	-9.63451	-0.01022	29.86698	-0.60776
Fine Asta	8D	0.	0.196051	-9.63451	-0.01022	-1.7e-06	8.41e-08
Inizio Asta	9D	0.	-21.6837	0.415088	0.002282	-1.28677	67.21954
Fine Asta	9D	0.	-21.6837	0.415088	0.002282	3.71e-07	-1.9e-08
Inizio Asta	10D	0.	-21.5399	-0.89958	-0.00495	2.788711	66.77379
Fine Asta	10D	0.	-21.5399	-0.89958	-0.00495	-8.0e-07	4.07e-08
Inizio Asta	11D	0.	-0.41742	-17.7570	0.021689	55.04664	1.293995
Fine Asta	11D	0.	-0.41742	-17.7570	0.021689	3.53e-06	-1.8e-07
Inizio Asta	12D	0.	0.417418	-20.4454	-0.02169	63.38088	-1.29400
Fine Asta	12D	0.	0.417418	-20.4454	-0.02169	-3.5e-06	1.78e-07

Beam: 44 CdC		N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	8.960895	0.	0.	0.
Fine Asta	1S	0.	0.	-8.96089	0.	8.54e-07	0.
Inizio Asta	2S	0.	0.	11.95834	0.	0.	0.
Fine Asta	2S	0.	0.	-11.9583	0.	1.47e-06	0.
Inizio Asta	3S	0.	0.	13.66667	0.	0.	0.
Fine Asta	3S	0.	0.	-13.6667	0.	1.25e-06	0.
Inizio Asta	4S	0.	0.043622	0.	-2.2e-05	0.	0.
Fine Asta	4S	0.	-0.04362	0.	-2.2e-05	0.	-8.5e-09
Inizio Asta	5S	0.043622	0.	0.	0.	0.	0.
Fine Asta	5S	-0.04362	0.	0.	0.	0.	0.
Inizio Asta	6S	0.043622	0.	0.	0.	0.	0.
Fine Asta	6S	-0.04362	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	-0.00018	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00018	0.	0.
Inizio Asta	2D	0.	0.	0.	0.000400	0.	0.
Fine Asta	2D	0.	0.	0.	0.000400	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00218	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00218	0.	0.
Inizio Asta	4D	0.	0.	0.	0.002175	0.	0.
Fine Asta	4D	0.	0.	0.	0.002175	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00016	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00016	0.	0.
Inizio Asta	6D	0.	0.	0.	0.000354	0.	0.
Fine Asta	6D	0.	0.	0.	0.000354	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00182	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00182	0.	0.
Inizio Asta	8D	0.	0.	0.	0.001816	0.	0.
Fine Asta	8D	0.	0.	0.	0.001816	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00041	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00041	0.	0.
Inizio Asta	10D	0.	0.	0.	0.000879	0.	0.
Fine Asta	10D	0.	0.	0.	0.000879	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.00385	0.	0.
Fine Asta	11D	0.	0.	0.	-0.00385	0.	0.
Inizio Asta	12D	0.	0.	0.	0.003853	0.	0.
Fine Asta	12D	0.	0.	0.	0.003853	0.	0.

Beam: 45 CdC		N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	-37.3161	0.	0.	0.	0.	0.
Fine Asta	1S	-34.7369	0.	0.	0.	0.	0.
Inizio Asta	2S	-40.8975	0.	0.	0.	0.	0.
Fine Asta	2S	-40.8975	0.	0.	0.	0.	0.
Inizio Asta	3S	-46.7400	0.	0.	0.	0.	0.
Fine Asta	3S	-46.7400	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.39479	0.022110	0.000122	-0.06854	1.223873
Fine Asta	4S	0.	-0.39479	0.022110	0.000122	1.86e-08	2.16e-05
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.
Inizio Asta	1D	0.	-9.36790	0.188353	0.001036	-0.58389	29.04067
Fine Asta	1D	0.	-9.36790	0.188353	0.001036	1.68e-07	0.000184
Inizio Asta	2D	0.	-9.76252	-0.40925	-0.00225	1.268672	30.26345
Fine Asta	2D	0.	-9.76252	-0.40925	-0.00225	-3.7e-07	-0.00040
Inizio Asta	3D	0.	1.661346	-10.0251	0.012245	31.07770	-5.14800
Fine Asta	3D	0.	1.661346	-10.0251	0.012245	1.99e-06	0.002175
Inizio Asta	4D	0.	-1.66135	-11.5429	-0.01225	35.78293	5.147997
Fine Asta	4D	0.	-1.66135	-11.5429	-0.01225	-2.0e-06	-0.00218
Inizio Asta	5D	0.	-8.39144	0.166870	0.000917	-0.51730	26.01361
Fine Asta	5D	0.	-8.39144	0.166870	0.000917	1.49e-07	0.000163
Inizio Asta	6D	0.	-8.74093	-0.36211	-0.00199	1.122548	27.09655
Fine Asta	6D	0.	-8.74093	-0.36211	-0.00199	-3.2e-07	-0.00035
Inizio Asta	7D	0.	1.386757	-8.36763	0.010221	25.93965	-4.29713
Fine Asta	7D	0.	1.386757	-8.36763	0.010221	1.66e-06	0.001816
Inizio Asta	8D	0.	-1.38676	-9.63451	-0.01022	29.86698	4.297131
Fine Asta	8D	0.	-1.38676	-9.63451	-0.01022	-1.7e-06	-0.00182
Inizio Asta	9D	0.	-21.3520	0.415088	0.002282	-1.28677	66.19169
Fine Asta	9D	0.	-21.3520	0.415088	0.002282	3.71e-07	0.000405
Inizio Asta	10D	0.	-22.2563	-0.89958	-0.00495	2.788711	68.99378
Fine Asta	10D	0.	-22.2563	-0.89958	-0.00495	-8.0e-07	-0.00088

VALBONDIONE TERRAZZA ESTERNA

FASCICOLO DEI CALCOLI



Inizio Asta	11D	0.	2.943367	-17.7570	0.021689	55.04664	-9.12059
Fine Asta	11D	0.	2.943367	-17.7570	0.021689	3.53e-06	0.003853
Inizio Asta	12D	0.	-2.94337	-20.4454	-0.02169	63.38088	9.120586
Fine Asta	12D	0.	-2.94337	-20.4454	-0.02169	-3.5e-06	-0.00385

Beam: 46		CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	12.78706	0.	0.	0.	
Fine Asta	1S	0.	0.	9.041486	0.	14.91620	0.	
Inizio Asta	2S	0.	0.	13.65641	0.	0.	0.	
Fine Asta	2S	0.	0.	10.92990	0.	16.80068	0.	
Inizio Asta	3S	0.	0.	15.60733	0.	0.	0.	
Fine Asta	3S	0.	0.	12.49132	0.	19.20077	0.	
Inizio Asta	4S	0.002486	0.	0.	-7.4e-05	0.	0.	
Fine Asta	4S	-0.00249	0.	0.	-7.4e-05	0.	0.	
Inizio Asta	5S	0.	-0.40755	0.	0.	0.	0.	
Fine Asta	5S	0.	0.679243	0.	0.	0.	0.185660	
Inizio Asta	6S	0.	0.200976	0.	0.	0.	0.	
Fine Asta	6S	0.	-0.33496	0.	0.	0.	-0.09156	
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.	
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.	
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.	
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.	
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.	
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.	
Inizio Asta	4D	0.	0.	0.	0.007418	0.	0.	
Fine Asta	4D	0.	0.	0.	0.007418	0.	0.	
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.	
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.	
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.	
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.	
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.	
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.	
Inizio Asta	8D	0.	0.	0.	0.006192	0.	0.	
Fine Asta	8D	0.	0.	0.	0.006192	0.	0.	
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.	
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.	
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.	
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.	
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.	
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.	
Inizio Asta	12D	0.	0.	0.	0.013140	0.	0.	
Fine Asta	12D	0.	0.	0.	0.013140	0.	0.	

Beam: 47		CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	17.36607	0.	0.	0.	
Fine Asta	1S	0.	0.	16.54175	0.	23.17038	0.	
Inizio Asta	2S	0.	0.	21.52498	0.	0.	0.	
Fine Asta	2S	0.	0.	21.52498	0.	29.41753	0.	
Inizio Asta	3S	0.	0.	24.59998	0.	0.	0.	
Fine Asta	3S	0.	0.	24.59998	0.	33.62003	0.	
Inizio Asta	4S	0.	0.	0.	-7.4e-05	0.	0.	
Fine Asta	4S	0.	0.	0.	-7.4e-05	0.	0.	
Inizio Asta	5S	0.	-0.20284	0.	0.	0.	0.	
Fine Asta	5S	0.	0.338068	0.	0.	0.	0.092405	
Inizio Asta	6S	0.	0.405681	0.	0.	0.	0.	
Fine Asta	6S	0.	-0.67614	0.	0.	0.	-0.18481	
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.	
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.	
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.	
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.	
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.	
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.	
Inizio Asta	4D	0.	0.	0.	0.007418	0.	0.	
Fine Asta	4D	0.	0.	0.	0.007418	0.	0.	
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.	
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.	
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.	
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.	
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.	
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.	
Inizio Asta	8D	0.	0.	0.	0.006192	0.	0.	
Fine Asta	8D	0.	0.	0.	0.006192	0.	0.	

Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013140	0.	0.
Fine Asta	12D	0.	0.	0.	0.013140	0.	0.

Beam: 48		CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	12.88799	0.	0.	0.	
Fine Asta	1S	0.	0.	10.26991	0.	15.82460	0.	
Inizio Asta	2S	0.	0.	14.46957	0.	0.	0.	
Fine Asta	2S	0.	0.	12.79540	0.	18.63110	0.	
Inizio Asta	3S	0.	0.	16.53666	0.	0.	0.	
Fine Asta	3S	0.	0.	14.62332	0.	21.29269	0.	
Inizio Asta	4S	0.001527	0.	0.	-7.4e-05	0.	0.	
Fine Asta	4S	-0.00153	0.	0.	-7.4e-05	0.	0.	
Inizio Asta	5S	0.	-0.00115	0.	0.	0.	0.	
Fine Asta	5S	0.	0.001908	0.	0.	0.	0.000522	
Inizio Asta	6S	0.	-0.00115	0.	0.	0.	0.	
Fine Asta	6S	0.	0.001908	0.	0.	0.	0.000522	
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.	
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.	
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.	
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.	
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.	
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.	
Inizio Asta	4D	0.	0.	0.	0.007418	0.	0.	
Fine Asta	4D	0.	0.	0.	0.007418	0.	0.	
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.	
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.	
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.	
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.	
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.	
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.	
Inizio Asta	8D	0.	0.	0.	0.006192	0.	0.	
Fine Asta	8D	0.	0.	0.	0.006192	0.	0.	
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.	
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.	
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.	
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.	
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.	
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.	
Inizio Asta	12D	0.	0.	0.	0.013140	0.	0.	
Fine Asta	12D	0.	0.	0.	0.013140	0.	0.	

Beam: 49		CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	7.168720	0.000818	0.	0.	
Fine Asta	1S	0.	0.	-7.16872	0.000818	-2.9e-07	0.	
Inizio Asta	2S	0.	0.	9.566677	0.001270	0.	0.	
Fine Asta	2S	0.	0.	-9.56668	0.001270	1.85e-06	0.	
Inizio Asta	3S	0.	0.	10.93334	0.001452	0.	0.	
Fine Asta	3S	0.	0.	-10.9333	0.001452	8.29e-07	0.	
Inizio Asta	4S	0.	0.034897	0.	0.	0.	0.	
Fine Asta	4S	0.	-0.03490	0.	0.	0.	-6.9e-09	
Inizio Asta	5S	0.034897	0.	0.	0.	0.	0.	
Fine Asta	5S	-0.03490	0.	0.	0.	0.	0.	
Inizio Asta	6S	0.034897	0.	0.	0.	0.	0.	
Fine Asta	6S	-0.03490	0.	0.	0.	0.	0.	
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	
Fine Asta	1D	0.	0.	0.	0.	0.	0.	
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	
Fine Asta	2D	0.	0.	0.	0.	0.	0.	
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	
Fine Asta	3D	0.	0.	0.	0.	0.	0.	
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	
Fine Asta	4D	0.	0.	0.	0.	0.	0.	
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	
Fine Asta	5D	0.	0.	0.	0.	0.	0.	
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	
Fine Asta	6D	0.	0.	0.	0.	0.	0.	



Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 50	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm ²)	P3 (N/mm ²)		
Inizio Asta	1S	0.	0.	8.960900	-0.00059	0.	0.
Fine Asta	1S	0.	0.	-8.960900	-0.00059	1.51e-07	0.
Inizio Asta	2S	0.	0.	11.95835	-0.00088	0.	0.
Fine Asta	2S	0.	0.	-11.9583	-0.00088	1.67e-06	0.
Inizio Asta	3S	0.	0.	13.66668	-0.00100	0.	0.
Fine Asta	3S	0.	0.	-13.6667	-0.00100	7.47e-08	0.
Inizio Asta	4S	0.	0.043622	0.	0.	0.	0.
Fine Asta	4S	0.	-0.04362	0.	0.	0.	3.54e-09
Inizio Asta	5S	0.043622	0.	0.	0.	0.	0.
Fine Asta	5S	-0.04362	0.	0.	0.	0.	0.
Inizio Asta	6S	0.043622	0.	0.	0.	0.	0.
Fine Asta	6S	-0.04362	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 51	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm ²)	P3 (N/mm ²)		
Inizio Asta	1S	0.	0.	1.872766	0.	14.91702	0.
Fine Asta	1S	0.	0.	-1.87281	0.	14.91699	0.
Inizio Asta	2S	0.	0.	1.363228	0.	16.80195	0.
Fine Asta	2S	0.	0.	-1.36327	0.	16.80192	0.
Inizio Asta	3S	0.	0.	1.557975	0.	19.20222	0.
Fine Asta	3S	0.	0.	-1.55803	0.	19.20219	0.
Inizio Asta	4S	0.002486	0.	0.	-7.4e-05	0.	0.
Fine Asta	4S	-0.00249	0.	0.	-7.4e-05	0.	0.
Inizio Asta	5S	0.	-0.54339	0.	0.	0.123773	0.
Fine Asta	5S	0.	0.543394	0.	0.	0.123773	0.
Inizio Asta	6S	0.	0.267967	0.	0.	-0.06104	0.
Fine Asta	6S	0.	-0.26797	0.	0.	-0.06104	0.
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007418	0.	0.
Fine Asta	4D	0.	0.	0.	0.007418	0.	0.

Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006192	0.	0.
Fine Asta	8D	0.	0.	0.	0.006192	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013140	0.	0.
Fine Asta	12D	0.	0.	0.	0.013140	0.	0.

Beam: 52	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm ²)	P3 (N/mm ²)		
Inizio Asta	1S	0.	0.	0.412130	0.	23.16898	0.
Fine Asta	1S	0.	0.	-0.41219	0.	23.16894	0.
Inizio Asta	2S	0.	0.	-3.9e-05	0.	29.41538	0.
Fine Asta	2S	0.	0.	-3.9e-05	0.	29.41533	0.
Inizio Asta	3S	0.	0.	-4.5e-05	0.	33.61758	0.
Fine Asta	3S	0.	0.	-4.5e-05	0.	33.61752	0.
Inizio Asta	4S	0.	0.	0.	-7.4e-05	0.	0.
Fine Asta	4S	0.	0.	0.	-7.4e-05	0.	0.
Inizio Asta	5S	0.	-0.27045	0.	0.	0.	0.061603
Fine Asta	5S	0.	0.270454	0.	0.	0.	0.061603
Inizio Asta	6S	0.	0.540907	0.	0.	0.	-0.12321
Fine Asta	6S	0.	-0.54091	0.	0.	0.	-0.12321
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007418	0.	0.
Fine Asta	4D	0.	0.	0.	0.007418	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006192	0.	0.
Fine Asta	8D	0.	0.	0.	0.006192	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013140	0.	0.
Fine Asta	12D	0.	0.	0.	0.013140	0.	0.

Beam: 53	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm ²)	P3 (N/mm ²)		
Inizio Asta	1S	0.	0.	1.309015	0.	15.82519	0.
Fine Asta	1S	0.	0.	-1.30906	0.	15.82516	0.
Inizio Asta	2S	0.	0.	0.837059	0.	18.63197	0.
Fine Asta	2S	0.	0.	-0.83711	0.	18.63194	0.
Inizio Asta	3S	0.	0.	0.956638	0.	21.29369	0.
Fine Asta	3S	0.	0.	-0.95670	0.	21.29365	0.
Inizio Asta	4S	0.001527	0.	0.	-7.4e-05	0.	0.
Fine Asta	4S	-0.00153	0.	0.	-7.4e-05	0.	0.
Inizio Asta	5S	0.	-0.00153	0.	0.	0.	0.000348
Fine Asta	5S	0.	0.001527	0.	0.	0.	0.000348
Inizio Asta	6S	0.	-0.00153	0.	0.	0.	0.000348
Fine Asta	6S	0.	0.001527	0.	0.	0.	0.000348
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.

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Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007418	0.	0.
Fine Asta	4D	0.	0.	0.	0.007418	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006192	0.	0.
Fine Asta	8D	0.	0.	0.	0.006192	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013140	0.	0.
Fine Asta	12D	0.	0.	0.	0.013140	0.	0.

Beam: 54		CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	7.168708	-0.00082	0.	0.	0.
Fine Asta	1S	0.	0.	-7.16871	-0.00082	8.31e-07	0.	0.
Inizio Asta	2S	0.	0.	9.566659	-0.00127	0.	0.	0.
Fine Asta	2S	0.	0.	-9.56666	-0.00127	1.54e-06	0.	0.
Inizio Asta	3S	0.	0.	10.93332	-0.00145	0.	0.	0.
Fine Asta	3S	0.	0.	-10.9333	-0.00145	-1.2e-06	0.	0.
Inizio Asta	4S	0.	0.034897	0.	0.	0.	0.	0.
Fine Asta	4S	0.	-0.03490	0.	0.	0.	4.32e-09	0.
Inizio Asta	5S	0.034897	0.	0.	0.	0.	0.	0.
Fine Asta	5S	-0.03490	0.	0.	0.	0.	0.	0.
Inizio Asta	6S	0.034897	0.	0.	0.	0.	0.	0.
Fine Asta	6S	-0.03490	0.	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.	0.

Beam: 55		CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	8.960886	0.000590	0.	0.	0.
Fine Asta	1S	0.	0.	-8.96088	0.000590	1.91e-06	0.	0.
Inizio Asta	2S	0.	0.	11.95832	0.000875	0.	0.	0.
Fine Asta	2S	0.	0.	-11.9583	0.000875	-1.3e-06	0.	0.
Inizio Asta	3S	0.	0.	13.66666	0.001000	0.	0.	0.
Fine Asta	3S	0.	0.	-13.6667	0.001000	-1.9e-06	0.	0.
Inizio Asta	4S	0.	0.043622	0.	0.	0.	0.	0.
Fine Asta	4S	0.	-0.04362	0.	0.	0.	1.98e-09	0.
Inizio Asta	5S	0.043622	0.	0.	0.	0.	0.	0.
Fine Asta	5S	-0.04362	0.	0.	0.	0.	0.	0.
Inizio Asta	6S	0.043622	0.	0.	0.	0.	0.	0.
Fine Asta	6S	-0.04362	0.	0.	0.	0.	0.	0.

Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 56		CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	-9.04151	0.	14.91618	0.	0.
Fine Asta	1S	0.	0.	-12.7871	0.	4.08e-07	0.	0.
Inizio Asta	2S	0.	0.	-10.9299	0.	16.80065	0.	0.
Fine Asta	2S	0.	0.	-13.6564	0.	7.84e-07	0.	0.
Inizio Asta	3S	0.	0.	-12.4914	0.	19.20074	0.	0.
Fine Asta	3S	0.	0.	-15.6073	0.	3.84e-07	0.	0.
Inizio Asta	4S	0.002486	0.	0.	-7.4e-05	0.	0.	0.
Fine Asta	4S	-0.00249	0.	0.	-7.4e-05	0.	0.	0.
Inizio Asta	5S	0.	-0.67924	0.	0.	0.	0.185659	0.
Fine Asta	5S	0.	0.407544	0.	0.	0.	-2.0e-08	0.
Inizio Asta	6S	0.	0.334958	0.	0.	0.	-0.09156	0.
Fine Asta	6S	0.	-0.20097	0.	0.	0.	2.98e-09	0.
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007418	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.007418	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006192	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.006192	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013140	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.013140	0.	0.	0.

Beam: 57		CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	-16.5418	0.	23.17034	0.	0.
Fine Asta	1S	0.	0.	-17.3661	0.	-2.0e-06	0.	0.
Inizio Asta	2S	0.	0.	-21.5250	0.	29.41747	0.	0.
Fine Asta	2S	0.	0.	-21.5250	0.	3.81e-08	0.	0.
Inizio Asta	3S	0.	0.	-24.6000	0.	33.61997	0.	0.
Fine Asta	3S	0.	0.	-24.6000	0.	-1.1e-06	0.	0.
Inizio Asta	4S	0.	0.	0.	-7.4e-05	0.	0.	0.
Fine Asta	4S	0.	0.	0.	-7.4e-05	0.	0.	0.

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Inizio Asta	5S	0.	-0.33807	0.	0.	0.	0.092405
Fine Asta	5S	0.	0.202840	0.	0.	0.	-1.0e-08
Inizio Asta	6S	0.	0.676133	0.	0.	0.	-0.18481
Fine Asta	6S	0.	-0.40568	0.	0.	0.	2.08e-08
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007418	0.	0.
Fine Asta	4D	0.	0.	0.	0.007418	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006192	0.	0.
Fine Asta	8D	0.	0.	0.	0.006192	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013140	0.	0.
Fine Asta	12D	0.	0.	0.	0.013140	0.	0.

Beam: 58	CdC	N	T2	T3	MT	M2	M3
		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)		
Inizio Asta	1S	0.	0.	-10.2699	0.	15.82457	0.
Fine Asta	1S	0.	0.	-12.8880	0.	7.56e-07	0.
Inizio Asta	2S	0.	0.	-12.7954	0.	18.63107	0.
Fine Asta	2S	0.	0.	-14.4696	0.	7.53e-07	0.
Inizio Asta	3S	0.	0.	-14.6234	0.	21.29265	0.
Fine Asta	3S	0.	0.	-16.5367	0.	-1.5e-06	0.
Inizio Asta	4S	0.001527	0.	0.	-7.4e-05	0.	0.
Fine Asta	4S	-0.00153	0.	0.	-7.4e-05	0.	0.
Inizio Asta	5S	0.	-0.00191	0.	0.	0.000522	0.
Fine Asta	5S	0.	0.001145	0.	0.	0.	-4.7e-11
Inizio Asta	6S	0.	-0.00191	0.	0.	0.000522	0.
Fine Asta	6S	0.	0.001145	0.	0.	0.	-4.7e-11
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007418	0.	0.
Fine Asta	4D	0.	0.	0.	0.007418	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006192	0.	0.
Fine Asta	8D	0.	0.	0.	0.006192	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013140	0.	0.
Fine Asta	12D	0.	0.	0.	0.013140	0.	0.

Beam: 59	CdC	N	T2	T3	MT	M2	M3
		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)		
Inizio Asta	1S	-35.3220	0.	0.	0.	0.	0.
Fine Asta	1S	-32.7429	0.	0.	0.	0.	0.
Inizio Asta	2S	-36.8795	0.	0.	0.	0.	0.
Fine Asta	2S	-36.8795	0.	0.	0.	0.	0.

Inizio Asta	3S	-42.1480	0.	0.	0.	0.	0.
Fine Asta	3S	-42.1480	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.42863	-0.02211	0.000122	0.068541	1.328734
Fine Asta	4S	0.	-0.42863	-0.02211	0.000122	-1.9e-08	-2.2e-05
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.
Inizio Asta	1D	0.	-9.62919	-0.18835	0.001036	0.583894	29.85032
Fine Asta	1D	0.	-9.62919	-0.18835	0.001036	-1.7e-07	-0.00018
Inizio Asta	2D	0.	-9.20024	0.409249	-0.00225	-1.26867	28.52109
Fine Asta	2D	0.	-9.20024	0.409249	-0.00225	3.66e-07	0.000400
Inizio Asta	3D	0.	-1.74795	-11.5429	0.012245	35.78293	5.416460
Fine Asta	3D	0.	-1.74795	-11.5429	0.012245	-2.0e-06	-0.00218
Inizio Asta	4D	0.	1.747947	-10.0251	-0.01225	31.07769	-5.41646
Fine Asta	4D	0.	1.747947	-10.0251	-0.01225	1.99e-06	0.002175
Inizio Asta	5D	0.	-8.62573	-0.16687	0.000917	0.517296	26.73962
Fine Asta	5D	0.	-8.62573	-0.16687	0.000917	-1.5e-07	-0.00016
Inizio Asta	6D	0.	-8.23685	0.362112	-0.00199	-1.12255	25.53455
Fine Asta	6D	0.	-8.23685	0.362112	-0.00199	3.24e-07	0.000354
Inizio Asta	7D	0.	-1.45895	-9.63451	0.010221	29.86698	4.520918
Fine Asta	7D	0.	-1.45895	-9.63451	0.010221	-1.7e-06	-0.00182
Inizio Asta	8D	0.	1.458946	-8.36763	-0.01022	25.93965	-4.52092
Fine Asta	8D	0.	1.458946	-8.36763	-0.01022	1.66e-06	0.001815
Inizio Asta	9D	0.	-21.9496	-0.41509	0.002282	1.286772	68.04334
Fine Asta	9D	0.	-21.9496	-0.41509	0.002282	-3.7e-07	-0.00041
Inizio Asta	10D	0.	-20.9692	0.899585	-0.00495	-2.78871	65.00535
Fine Asta	10D	0.	-20.9692	0.899585	-0.00495	8.04e-07	0.000879
Inizio Asta	11D	0.	-3.09598	-20.4454	0.021689	63.38088	9.593673
Fine Asta	11D	0.	-3.09598	-20.4454	0.021689	-3.5e-06	-0.00385
Inizio Asta	12D	0.	3.095976	-17.7570	-0.02169	55.04664	-9.59367
Fine Asta	12D	0.	3.095976	-17.7570	-0.02169	3.53e-06	0.003853

Beam: 60	CdC	N	T2	T3	MT	M2	M3
		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)		
Inizio Asta	1S	0.	0.	7.168715	0.	0.	0.
Fine Asta	1S	0.	0.	-7.16872	0.	-6.3e-07	0.
Inizio Asta	2S	0.	0.	9.566669	0.	0.	0.
Fine Asta	2S	0.	0.	-9.56667	0.	-1.4e-06	0.
Inizio Asta	3S	0.	0.	10.93334	0.	0.	0.
Fine Asta	3S	0.	0.	-10.9333	0.	1.58e-06	0.
Inizio Asta	4S	0.	0.034897	0.	-2.2e-05	0.	0.
Fine Asta	4S	0.	-0.03490	0.	-2.2e-05	0.	3.70e-09
Inizio Asta	5S	0.034897	0.	0.	0.	0.	0.
Fine Asta	5S	-0.03490	0.	0.	0.	0.	0.
Inizio Asta	6S	0.034897	0.	0.	0.	0.	0.
Fine Asta	6S	-0.03490	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	-0.00018	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00018	0.	0.
Inizio Asta	2D	0.	0.	0.	0.000400	0.	0.
Fine Asta	2D	0.	0.	0.	0.000400	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00218	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00218	0.	0.
Inizio Asta	4D	0.	0.	0.	0.002175	0.	0.
Fine Asta	4D	0.	0.	0.	0.002175	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00016	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00016	0.	0.
Inizio Asta	6D	0.	0.	0.	0.000354	0.	0.
Fine Asta	6D	0.	0.	0.	0.000354	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00182	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00182	0.	0.
Inizio Asta	8D	0.	0.	0.	0.001815	0.	0.
Fine Asta	8D	0.	0.	0.	0.001815	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00041	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00041	0.	0.
Inizio Asta	10D	0.	0.	0.	0.000879	0.	0.
Fine Asta	10D	0.	0.	0.	0.000879	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.00385	0.	0.
Fine Asta	11D	0.	0.	0.	-0.00385	0.	0.
Inizio Asta	12D	0.	0.	0.	0.003853	0.	0.
Fine Asta	12D	0.	0.	0.	0.003853	0.	0.

VALBONDIONE TERRAZZA ESTERNA

FASCICOLO DEI CALCOLI



Beam: 61	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	-53.4409	0.	0.	0.	0.	0.
Fine Asta	1S	-50.8618	0.	0.	0.	0.	0.
Inizio Asta	2S	-64.5750	0.	0.	0.	0.	0.
Fine Asta	2S	-64.5750	0.	0.	0.	0.	0.
Inizio Asta	3S	-73.8000	0.	0.	0.	0.	0.
Fine Asta	3S	-73.8000	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.41359	-0.02211	0.000122	0.068541	1.282128
Fine Asta	4S	0.	-0.41359	-0.02211	0.000122	-1.9e-08	2.16e-08
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.
Inizio Asta	1D	0.	-9.51286	-0.18835	0.001036	0.583894	29.48987
Fine Asta	1D	0.	-9.51286	-0.18835	0.001036	-1.7e-07	-8.5e-09
Inizio Asta	2D	0.	-9.44917	0.409249	-0.00225	-1.26867	29.29241
Fine Asta	2D	0.	-9.44917	0.409249	-0.00225	3.66e-07	1.85e-08
Inizio Asta	3D	0.	-0.23466	-11.5429	0.012245	35.78293	0.727436
Fine Asta	3D	0.	-0.23466	-11.5429	0.012245	-2.0e-06	-1.0e-07
Inizio Asta	4D	0.	0.234657	-10.0251	-0.01225	31.07769	0.72744
Fine Asta	4D	0.	0.234657	-10.0251	-0.01225	1.99e-06	1.01e-07
Inizio Asta	5D	0.	-8.52144	-0.16687	0.000917	0.517296	26.41648
Fine Asta	5D	0.	-8.52144	-0.16687	0.000917	-1.5e-07	-7.5e-09
Inizio Asta	6D	0.	-8.46013	0.362112	-0.00199	-1.12255	26.22639
Fine Asta	6D	0.	-8.46013	0.362112	-0.00199	3.24e-07	1.64e-08
Inizio Asta	7D	0.	-0.19605	-9.63451	0.010221	29.86698	0.607758
Fine Asta	7D	0.	-0.19605	-9.63451	0.010221	-1.7e-06	-8.4e-08
Inizio Asta	8D	0.	0.196051	-8.36763	-0.01022	25.93965	-0.60776
Fine Asta	8D	0.	0.196051	-8.36763	-0.01022	1.66e-06	8.41e-08
Inizio Asta	9D	0.	-21.6837	-0.41509	0.002282	1.286772	67.21954
Fine Asta	9D	0.	-21.6837	-0.41509	0.002282	-3.7e-07	-1.9e-08
Inizio Asta	10D	0.	-21.5399	0.899585	-0.00495	-2.78871	66.77379
Fine Asta	10D	0.	-21.5399	0.899585	-0.00495	8.04e-07	4.07e-08
Inizio Asta	11D	0.	-0.41742	-20.4454	0.021689	63.38088	1.293995
Fine Asta	11D	0.	-0.41742	-20.4454	0.021689	-3.5e-06	-1.8e-07
Inizio Asta	12D	0.	0.417418	-17.7570	-0.02169	55.04664	-1.29400
Fine Asta	12D	0.	0.417418	-17.7570	-0.02169	3.53e-06	1.78e-07

Beam: 62	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	8.960895	0.	0.	0.
Fine Asta	1S	0.	0.	-8.96089	0.	8.54e-07	0.
Inizio Asta	2S	0.	0.	11.95834	0.	0.	0.
Fine Asta	2S	0.	0.	-11.9583	0.	1.47e-06	0.
Inizio Asta	3S	0.	0.	13.66667	0.	0.	0.
Fine Asta	3S	0.	0.	-13.6667	0.	1.25e-06	0.
Inizio Asta	4S	0.	0.043622	0.	-2.2e-05	0.	0.
Fine Asta	4S	0.	-0.04362	0.	-2.2e-05	0.	-8.5e-09
Inizio Asta	5S	0.043622	0.	0.	0.	0.	0.
Fine Asta	5S	-0.04362	0.	0.	0.	0.	0.
Inizio Asta	6S	0.043622	0.	0.	0.	0.	0.
Fine Asta	6S	-0.04362	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	-0.00018	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00018	0.	0.
Inizio Asta	2D	0.	0.	0.	0.000400	0.	0.
Fine Asta	2D	0.	0.	0.	0.000400	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00218	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00218	0.	0.
Inizio Asta	4D	0.	0.	0.	0.002175	0.	0.
Fine Asta	4D	0.	0.	0.	0.002175	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00016	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00016	0.	0.
Inizio Asta	6D	0.	0.	0.	0.000354	0.	0.
Fine Asta	6D	0.	0.	0.	0.000354	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00182	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00182	0.	0.
Inizio Asta	8D	0.	0.	0.	0.001816	0.	0.
Fine Asta	8D	0.	0.	0.	0.001816	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00041	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00041	0.	0.
Inizio Asta	10D	0.	0.	0.	0.000879	0.	0.
Fine Asta	10D	0.	0.	0.	0.000879	0.	0.

Inizio Asta	11D	0.	0.	0.	-0.00385	0.	0.
Fine Asta	11D	0.	0.	0.	-0.00385	0.	0.
Inizio Asta	12D	0.	0.	0.	0.003853	0.	0.
Fine Asta	12D	0.	0.	0.	0.003853	0.	0.

Beam: 63	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	-37.3161	0.	0.	0.	0.	0.
Fine Asta	1S	-34.7369	0.	0.	0.	0.	0.
Inizio Asta	2S	-40.8975	0.	0.	0.	0.	0.
Fine Asta	2S	-40.8975	0.	0.	0.	0.	0.
Inizio Asta	3S	-46.7400	0.	0.	0.	0.	0.
Fine Asta	3S	-46.7400	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.39479	-0.02211	0.000122	0.068541	1.223873
Fine Asta	4S	0.	-0.39479	-0.02211	0.000122	-1.9e-08	2.16e-05
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.
Inizio Asta	1D	0.	-9.36790	-0.18835	0.001036	0.583894	29.04067
Fine Asta	1D	0.	-9.36790	-0.18835	0.001036	-1.7e-07	0.000184
Inizio Asta	2D	0.	-9.76252	0.409249	-0.00225	-1.26867	30.26345
Fine Asta	2D	0.	-9.76252	0.409249	-0.00225	3.66e-07	-0.00040
Inizio Asta	3D	0.	1.661346	-11.5429	0.012245	35.78293	-5.14800
Fine Asta	3D	0.	1.661346	-11.5429	0.012245	-2.0e-06	0.002175
Inizio Asta	4D	0.	-1.66135	-10.0251	-0.01225	31.07769	5.147997
Fine Asta	4D	0.	-1.66135	-10.0251	-0.01225	1.99e-06	-0.00218
Inizio Asta	5D	0.	-8.39144	-0.16687	0.000917	0.517296	26.01361
Fine Asta	5D	0.	-8.39144	-0.16687	0.000917	-1.5e-07	0.000163
Inizio Asta	6D	0.	-8.74093	0.362112	-0.00199	-1.12255	27.09655
Fine Asta	6D	0.	-8.74093	0.362112	-0.00199	3.24e-07	-0.00035
Inizio Asta	7D	0.	1.386757	-9.63451	0.010221	29.86698	-4.29713
Fine Asta	7D	0.	1.386757	-9.63451	0.010221	-1.7e-06	0.001816
Inizio Asta	8D	0.	-1.38676	-8.36763	-0.01022	25.93965	4.297131
Fine Asta	8D	0.	-1.38676	-8.36763	-0.01022	1.66e-06	-0.00182
Inizio Asta	9D	0.	-21.3520	-0.41509	0.002282	1.286772	66.19169
Fine Asta	9D	0.	-21.3520	-0.41509	0.002282	-3.7e-07	0.000405
Inizio Asta	10D	0.	-22.2563	0.899585	-0.00495	-2.78871	68.99378
Fine Asta	10D	0.	-22.2563	0.899585	-0.00495	8.04e-07	-0.00088
Inizio Asta	11D	0.	2.943367	-20.4454	0.021689	63.38088	-9.12059
Fine Asta	11D	0.	2.943367	-20.4454	0.021689	-3.5e-06	0.003853
Inizio Asta	12D	0.	-2.94337	-17.7570	-0.02169	55.04664	9.120586
Fine Asta	12D	0.	-2.94337	-17.7570	-0.02169	3.53e-06	-0.00385

Beam: 64	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	12.78706	0.	0.	0.
Fine Asta	1S	0.	0.	9.041482	0.	14.91621	0.
Inizio Asta	2S	0.	0.	13.65641	0.	0.	0.
Fine Asta	2S	0.	0.	10.92990	0.	16.80068	0.
Inizio Asta	3S	0.	0.	15.60732	0.	0.	0.
Fine Asta	3S	0.	0.	12.49131	0.	19.20078	0.
Inizio Asta	4S	0.002486	0.	0.	-7.4e-05	0.	0.
Fine Asta	4S	-0.00249	0.	0.	-7.4e-05	0.	0.
Inizio Asta	5S	0.	-0.40755	0.	0.	0.	0.
Fine Asta	5S	0.	0.679244	0.	0.	0.	0.185660
Inizio Asta	6S	0.	0.200976	0.	0.	0.	0.
Fine Asta	6S	0.	-0.33496	0.	0.	0.	-0.09156
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.

VALBONDIONE
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FASCICOLO DEI CALCOLI



Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.

Beam: 65		CdC		N	T2	T3	MT	M2	M3
				(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler		QW2	QW3	P2	P3				
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)				
Inizio Asta	1S	0.	0.	17.36607	0.	0.	0.	0.	0.
Fine Asta	1S	0.	0.	16.54174	0.	23.17039	0.	0.	0.
Inizio Asta	2S	0.	0.	21.52497	0.	0.	0.	0.	0.
Fine Asta	2S	0.	0.	21.52497	0.	29.41754	0.	0.	0.
Inizio Asta	3S	0.	0.	24.59997	0.	0.	0.	0.	0.
Fine Asta	3S	0.	0.	24.59997	0.	33.62004	0.	0.	0.
Inizio Asta	4S	0.	0.	0.	-7.4e-05	0.	0.	0.	0.
Fine Asta	4S	0.	0.	0.	-7.4e-05	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.20284	0.	0.	0.	0.	0.	0.
Fine Asta	5S	0.	0.338068	0.	0.	0.	0.092405	0.	0.
Inizio Asta	6S	0.	0.405681	0.	0.	0.	0.	0.	0.
Fine Asta	6S	0.	-0.67614	0.	0.	0.	-0.18481	0.	0.
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.	0.	0.

Beam: 66		CdC		N	T2	T3	MT	M2	M3
				(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler		QW2	QW3	P2	P3				
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)				
Inizio Asta	1S	0.	0.	12.88799	0.	0.	0.	0.	0.
Fine Asta	1S	0.	0.	10.26991	0.	15.82460	0.	0.	0.
Inizio Asta	2S	0.	0.	14.46957	0.	0.	0.	0.	0.
Fine Asta	2S	0.	0.	12.79540	0.	18.63111	0.	0.	0.
Inizio Asta	3S	0.	0.	16.53665	0.	0.	0.	0.	0.
Fine Asta	3S	0.	0.	14.62331	0.	21.29269	0.	0.	0.
Inizio Asta	4S	0.001527	0.	0.	-7.4e-05	0.	0.	0.	0.
Fine Asta	4S	-0.00153	0.	0.	-7.4e-05	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.00115	0.	0.	0.	0.	0.	0.
Fine Asta	5S	0.	0.001908	0.	0.	0.	0.000522	0.	0.
Inizio Asta	6S	0.	-0.00115	0.	0.	0.	0.	0.	0.
Fine Asta	6S	0.	0.001908	0.	0.	0.	0.000522	0.	0.
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.	0.	0.

Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.

Beam: 67		CdC		N	T2	T3	MT	M2	M3
				(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler		QW2	QW3	P2	P3				
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)				
Inizio Asta	1S	0.	0.	7.168723	0.000816	0.	0.	0.	0.
Fine Asta	1S	0.	0.	-7.16872	0.000816	-1.3e-07	0.	0.	0.
Inizio Asta	2S	0.	0.	9.566680	0.001269	0.	0.	0.	0.
Fine Asta	2S	0.	0.	-9.56668	0.001269	-4.3e-07	0.	0.	0.
Inizio Asta	3S	0.	0.	10.93335	0.001450	0.	0.	0.	0.
Fine Asta	3S	0.	0.	-10.9333	0.001450	4.54e-07	0.	0.	0.
Inizio Asta	4S	0.	0.034897	0.	0.	0.	0.	0.	0.
Fine Asta	4S	0.	-0.03490	0.	0.	0.	0.	3.08e-09	0.
Inizio Asta	5S	0.034897	0.	0.	0.	0.	0.	0.	0.
Fine Asta	5S	-0.03490	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	6S	0.034897	0.	0.	0.	0.	0.	0.	0.
Fine Asta	6S	-0.03490	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.	0.	0.

Beam: 68		CdC		N	T2	T3	MT	M2	M3
				(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler		QW2	QW3	P2	P3				
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)				
Inizio Asta	1S	0.	0.	8.960903	-0.00059	0.	0.	0.	0.
Fine Asta	1S	0.	0.	-8.96090	-0.00059	-2.0e-07	0.	0.	0.
Inizio Asta	2S	0.	0.	11.95835	-0.00088	0.	0.	0.	0.
Fine Asta	2S	0.	0.	-11.9583	-0.00088	-6.7e-07	0.	0.	0.
Inizio Asta	3S	0.	0.	13.66669	-0.00100	0.	0.	0.	0.
Fine Asta	3S	0.	0.	-13.6667	-0.00100	-5.1e-07	0.	0.	0.
Inizio Asta	4S	0.	0.043622	0.	0.	0.	0.	0.	0.
Fine Asta	4S	0.	-0.04362	0.	0.	0.	0.	4.10e-11	0.
Inizio Asta	5S	0.043622	0.	0.	0.	0.	0.	0.	0.
Fine Asta	5S	-0.04362	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	6S	0.043622	0.	0.	0.	0.	0.	0.	0.
Fine Asta	6S	-0.04362	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.	0.

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Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 69	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm ²)	P3 (N/mm ²)		
Inizio Asta	1S	0.	0.	1.872759	0.	14.91702	0.
Fine Asta	1S	0.	0.	-1.87281	0.	14.91699	0.
Inizio Asta	2S	0.	0.	1.363220	0.	16.80195	0.
Fine Asta	2S	0.	0.	-1.36328	0.	16.80191	0.
Inizio Asta	3S	0.	0.	1.557965	0.	19.20223	0.
Fine Asta	3S	0.	0.	-1.55804	0.	19.20218	0.
Inizio Asta	4S	0.002486	0.	0.	-7.4e-05	0.	0.
Fine Asta	4S	-0.00249	0.	0.	-7.4e-05	0.	0.
Inizio Asta	5S	0.	-0.54339	0.	0.	0.123773	0.
Fine Asta	5S	0.	0.543394	0.	0.	0.123773	0.
Inizio Asta	6S	0.	0.267967	0.	0.	-0.06104	0.
Fine Asta	6S	0.	-0.26797	0.	0.	-0.06104	0.
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.

Beam: 70	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm ²)	P3 (N/mm ²)		
Inizio Asta	1S	0.	0.	0.412118	0.	23.16899	0.
Fine Asta	1S	0.	0.	-0.41220	0.	23.16893	0.
Inizio Asta	2S	0.	0.	-5.6e-05	0.	29.41539	0.
Fine Asta	2S	0.	0.	-5.6e-05	0.	29.41532	0.
Inizio Asta	3S	0.	0.	-6.4e-05	0.	33.61759	0.
Fine Asta	3S	0.	0.	-6.4e-05	0.	33.61750	0.
Inizio Asta	4S	0.	0.	0.	-7.4e-05	0.	0.
Fine Asta	4S	0.	0.	0.	-7.4e-05	0.	0.
Inizio Asta	5S	0.	-0.27045	0.	0.	0.061603	0.
Fine Asta	5S	0.	0.270454	0.	0.	0.061603	0.
Inizio Asta	6S	0.	0.540907	0.	0.	-0.12321	0.
Fine Asta	6S	0.	-0.54091	0.	0.	-0.12321	0.
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.

Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.

Beam: 71	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm ²)	P3 (N/mm ²)		
Inizio Asta	1S	0.	0.	1.309007	0.	15.82519	0.
Fine Asta	1S	0.	0.	-1.30906	0.	15.82515	0.
Inizio Asta	2S	0.	0.	0.837049	0.	18.63198	0.
Fine Asta	2S	0.	0.	-0.83712	0.	18.63193	0.
Inizio Asta	3S	0.	0.	0.956627	0.	21.29369	0.
Fine Asta	3S	0.	0.	-0.95671	0.	21.29364	0.
Inizio Asta	4S	0.001527	0.	0.	-7.4e-05	0.	0.
Fine Asta	4S	-0.00153	0.	0.	-7.4e-05	0.	0.
Inizio Asta	5S	0.	-0.00153	0.	0.	0.000348	0.
Fine Asta	5S	0.	0.001527	0.	0.	0.000348	0.
Inizio Asta	6S	0.	-0.00153	0.	0.	0.000348	0.
Fine Asta	6S	0.	0.001527	0.	0.	0.000348	0.
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.

Beam: 72	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm ²)	P3 (N/mm ²)		
Inizio Asta	1S	0.	0.	7.168706	-0.00082	0.	0.
Fine Asta	1S	0.	0.	-7.16871	-0.00082	6.65e-07	0.
Inizio Asta	2S	0.	0.	9.566655	-0.00127	0.	0.
Fine Asta	2S	0.	0.	-9.56666	-0.00127	-8.7e-08	0.
Inizio Asta	3S	0.	0.	10.93332	-0.00145	0.	0.
Fine Asta	3S	0.	0.	-10.9333	-0.00145	-8.3e-07	0.
Inizio Asta	4S	0.	0.034897	0.	0.	0.	0.
Fine Asta	4S	0.	-0.03490	0.	0.	0.	-5.6e-09
Inizio Asta	5S	0.034897	0.	0.	0.	0.	0.
Fine Asta	5S	-0.03490	0.	0.	0.	0.	0.
Inizio Asta	6S	0.034897	0.	0.	0.	0.	0.
Fine Asta	6S	-0.03490	0.	0.	0.	0.	0.

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Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 73		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm ²)	P3 (N/mm ²)		
Inizio Asta	1S	0.	0.	8.960883	0.000590	0.	0.	
Fine Asta	1S	0.	0.	-8.96088	0.000590	2.26e-06	0.	
Inizio Asta	2S	0.	0.	11.95832	0.000875	0.	0.	
Fine Asta	2S	0.	0.	-11.9583	0.000875	1.08e-06	0.	
Inizio Asta	3S	0.	0.	13.66665	0.00100	0.	0.	
Fine Asta	3S	0.	0.	-13.6667	0.00100	-1.3e-06	0.	
Inizio Asta	4S	0.	0.043621	0.	0.	0.	0.	
Fine Asta	4S	0.	-0.04362	0.	0.	0.	5.48e-09	
Inizio Asta	5S	0.043621	0.	0.	0.	0.	0.	
Fine Asta	5S	-0.04362	0.	0.	0.	0.	0.	
Inizio Asta	6S	0.043621	0.	0.	0.	0.	0.	
Fine Asta	6S	-0.04362	0.	0.	0.	0.	0.	
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	
Fine Asta	1D	0.	0.	0.	0.	0.	0.	
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	
Fine Asta	2D	0.	0.	0.	0.	0.	0.	
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	
Fine Asta	3D	0.	0.	0.	0.	0.	0.	
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	
Fine Asta	4D	0.	0.	0.	0.	0.	0.	
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	
Fine Asta	5D	0.	0.	0.	0.	0.	0.	
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	
Fine Asta	6D	0.	0.	0.	0.	0.	0.	
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	
Fine Asta	7D	0.	0.	0.	0.	0.	0.	
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	
Fine Asta	8D	0.	0.	0.	0.	0.	0.	
Inizio Asta	9D	0.	0.	0.	0.	0.	0.	
Fine Asta	9D	0.	0.	0.	0.	0.	0.	
Inizio Asta	10D	0.	0.	0.	0.	0.	0.	
Fine Asta	10D	0.	0.	0.	0.	0.	0.	
Inizio Asta	11D	0.	0.	0.	0.	0.	0.	
Fine Asta	11D	0.	0.	0.	0.	0.	0.	
Inizio Asta	12D	0.	0.	0.	0.	0.	0.	
Fine Asta	12D	0.	0.	0.	0.	0.	0.	

Beam: 74		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm ²)	P3 (N/mm ²)		
Inizio Asta	1S	0.	0.	-9.04152	0.	14.91617	0.	
Fine Asta	1S	0.	0.	-12.7871	0.	-4.8e-07	0.	
Inizio Asta	2S	0.	0.	-10.9299	0.	16.80064	0.	
Fine Asta	2S	0.	0.	-13.6564	0.	-2.3e-07	0.	
Inizio Asta	3S	0.	0.	-12.4914	0.	19.20073	0.	
Fine Asta	3S	0.	0.	-15.6073	0.	-1.6e-08	0.	
Inizio Asta	4S	0.002486	0.	0.	-7.4e-05	0.	0.	
Fine Asta	4S	-0.00249	0.	0.	-7.4e-05	0.	0.	

Inizio Asta	5S	0.	-0.67924	0.	0.	0.	0.185658
Fine Asta	5S	0.	0.407544	0.	0.	0.	-4.2e-08
Inizio Asta	6S	0.	0.334958	0.	0.	0.	-0.09155
Fine Asta	6S	0.	-0.20097	0.	0.	0.	3.11e-09
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.

Beam: 75		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm ²)	P3 (N/mm ²)		
Inizio Asta	1S	0.	0.	-16.5418	0.	23.17034	0.	
Fine Asta	1S	0.	0.	-17.3661	0.	1.40e-06	0.	
Inizio Asta	2S	0.	0.	-21.5250	0.	29.41746	0.	
Fine Asta	2S	0.	0.	-21.5250	0.	8.86e-07	0.	
Inizio Asta	3S	0.	0.	-24.6000	0.	33.61996	0.	
Fine Asta	3S	0.	0.	-24.6000	0.	-1.8e-06	0.	
Inizio Asta	4S	0.	0.	0.	-7.4e-05	0.	0.	
Fine Asta	4S	0.	0.	0.	-7.4e-05	0.	0.	
Inizio Asta	5S	0.	-0.33807	0.	0.	0.	0.092404	
Fine Asta	5S	0.	0.202840	0.	0.	0.	-1.2e-08	
Inizio Asta	6S	0.	0.676132	0.	0.	0.	-0.18481	
Fine Asta	6S	0.	-0.40568	0.	0.	0.	2.48e-08	
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.	
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.	
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.	
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.	
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.	
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.	
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.	
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.	
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.	
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.	
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.	
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.	
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.	
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.	
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.	
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.	
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.	
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.	
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.	
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.	
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.	
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.	
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.	
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.	

Beam: 76		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm ²)	P3 (N/mm ²)		
Inizio Asta	1S	0.	0.	-10.2699	0.	15.82456	0.	
Fine Asta	1S	0.	0.	-12.8880	0.	-3.6e-07	0.	
Inizio Asta	2S	0.	0.	-12.7954	0.	18.63106	0.	
Fine Asta	2S	0.	0.	-14.4696	0.	1.21e-06	0.	

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Inizio Asta	3S	0.	0.	-14.6234	0.	21.29264	0.
Fine Asta	3S	0.	0.	-16.5367	0.	9.85e-07	0.
Inizio Asta	4S	0.001527	0.	0.	-7.4e-05	0.	0.
Fine Asta	4S	-0.00153	0.	0.	-7.4e-05	0.	0.
Inizio Asta	5S	0.	-0.00191	0.	0.	0.	0.000522
Fine Asta	5S	0.	0.001145	0.	0.	0.	-3.0e-11
Inizio Asta	6S	0.	-0.00191	0.	0.	0.	0.000522
Fine Asta	6S	0.	0.001145	0.	0.	0.	-3.0e-11
Inizio Asta	1D	0.	0.	0.	-0.00063	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00063	0.	0.
Inizio Asta	2D	0.	0.	0.	0.001363	0.	0.
Fine Asta	2D	0.	0.	0.	0.001363	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00742	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00742	0.	0.
Inizio Asta	4D	0.	0.	0.	0.007416	0.	0.
Fine Asta	4D	0.	0.	0.	0.007416	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00056	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00056	0.	0.
Inizio Asta	6D	0.	0.	0.	0.001206	0.	0.
Fine Asta	6D	0.	0.	0.	0.001206	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00619	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00619	0.	0.
Inizio Asta	8D	0.	0.	0.	0.006190	0.	0.
Fine Asta	8D	0.	0.	0.	0.006190	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00138	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00138	0.	0.
Inizio Asta	10D	0.	0.	0.	0.002996	0.	0.
Fine Asta	10D	0.	0.	0.	0.002996	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.01314	0.	0.
Fine Asta	11D	0.	0.	0.	-0.01314	0.	0.
Inizio Asta	12D	0.	0.	0.	0.013136	0.	0.
Fine Asta	12D	0.	0.	0.	0.013136	0.	0.

Beam: 77 CdC		N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	-35.3221	0.	0.	0.	0.	0.
Fine Asta	1S	-32.7430	0.	0.	0.	0.	0.
Inizio Asta	2S	-36.8798	0.	0.	0.	0.	0.
Fine Asta	2S	-36.8798	0.	0.	0.	0.	0.
Inizio Asta	3S	-42.1483	0.	0.	0.	0.	0.
Fine Asta	3S	-42.1483	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.42863	-0.06637	0.000122	0.205661	1.328734
Fine Asta	4S	0.	-0.42863	-0.06637	0.000122	-7.4e-05	-2.2e-05
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.
Inizio Asta	1D	0.	-9.62919	-0.56536	0.001036	1.751996	29.85032
Fine Asta	1D	0.	-9.62919	-0.56536	0.001036	-0.00063	-0.00018
Inizio Asta	2D	0.	-9.20024	1.228406	-0.00225	-3.80670	28.52109
Fine Asta	2D	0.	-9.20024	1.228406	-0.00225	0.001363	0.000400
Inizio Asta	3D	0.	-1.74795	-14.3433	0.012245	44.45896	5.416460
Fine Asta	3D	0.	-1.74795	-14.3433	0.012245	-0.00742	-0.00218
Inizio Asta	4D	0.	1.747947	-10.3668	-0.01225	32.13478	-5.41646
Fine Asta	4D	0.	1.747947	-10.3668	-0.01225	0.007416	0.002175
Inizio Asta	5D	0.	-8.62573	-0.50088	0.000917	1.552165	26.73962
Fine Asta	5D	0.	-8.62573	-0.50088	0.000917	-0.00056	-0.00016
Inizio Asta	6D	0.	-8.23685	1.086920	-0.00199	-3.36825	25.53455
Fine Asta	6D	0.	-8.23685	1.086920	-0.00199	0.001206	0.000354
Inizio Asta	7D	0.	-1.45895	-11.9720	0.010221	37.10860	4.520918
Fine Asta	7D	0.	-1.45895	-11.9720	0.010221	-0.00619	-0.00182
Inizio Asta	8D	0.	1.458946	-8.65283	-0.01022	26.82196	-4.52092
Fine Asta	8D	0.	1.458946	-8.65283	-0.01022	0.006190	0.001815
Inizio Asta	9D	0.	-21.9496	-1.24593	0.002282	3.861005	68.04334
Fine Asta	9D	0.	-21.9496	-1.24593	0.002282	-0.00138	-0.00041
Inizio Asta	10D	0.	-20.9692	2.700202	-0.00495	-8.36763	65.00535
Fine Asta	10D	0.	-20.9692	2.700202	-0.00495	0.002996	0.000879
Inizio Asta	11D	0.	-3.09598	-25.4058	0.021689	78.74840	9.593673
Fine Asta	11D	0.	-3.09598	-25.4058	0.021689	-0.01314	-0.00385
Inizio Asta	12D	0.	3.095976	-18.3622	-0.02169	56.91899	-9.59367
Fine Asta	12D	0.	3.095976	-18.3622	-0.02169	0.013136	0.003853

Beam: 78 CdC		N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	7.168715	0.	0.	0.
Fine Asta	1S	0.	0.	-7.16872	0.	-6.3e-07	0.
Inizio Asta	2S	0.	0.	9.566669	0.	0.	0.
Fine Asta	2S	0.	0.	-9.56667	0.	-1.4e-06	0.
Inizio Asta	3S	0.	0.	10.93334	0.	0.	0.
Fine Asta	3S	0.	0.	-10.9333	0.	1.58e-06	0.
Inizio Asta	4S	0.	0.034897	0.	-2.2e-05	0.	0.
Fine Asta	4S	0.	-0.03490	0.	-2.2e-05	0.	3.70e-09
Inizio Asta	5S	0.034897	0.	0.	0.	0.	0.
Fine Asta	5S	-0.03490	0.	0.	0.	0.	0.
Inizio Asta	6S	0.034897	0.	0.	0.	0.	0.
Fine Asta	6S	-0.03490	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	-0.00018	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00018	0.	0.
Inizio Asta	2D	0.	0.	0.	0.000400	0.	0.
Fine Asta	2D	0.	0.	0.	0.000400	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00218	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00218	0.	0.
Inizio Asta	4D	0.	0.	0.	0.002175	0.	0.
Fine Asta	4D	0.	0.	0.	0.002175	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00016	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00016	0.	0.
Inizio Asta	6D	0.	0.	0.	0.000354	0.	0.
Fine Asta	6D	0.	0.	0.	0.000354	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00182	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00182	0.	0.
Inizio Asta	8D	0.	0.	0.	0.001815	0.	0.
Fine Asta	8D	0.	0.	0.	0.001815	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00041	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00041	0.	0.
Inizio Asta	10D	0.	0.	0.	0.000879	0.	0.
Fine Asta	10D	0.	0.	0.	0.000879	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.00385	0.	0.
Fine Asta	11D	0.	0.	0.	-0.00385	0.	0.
Inizio Asta	12D	0.	0.	0.	0.003853	0.	0.
Fine Asta	12D	0.	0.	0.	0.003853	0.	0.

Beam: 79 CdC		N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	-51.8380	0.	0.	0.	0.	0.
Fine Asta	1S	-49.2588	0.	0.	0.	0.	0.
Inizio Asta	2S	-62.7704	0.	0.	0.	0.	0.
Fine Asta	2S	-62.7704	0.	0.	0.	0.	0.
Inizio Asta	3S	-71.7376	0.	0.	0.	0.	0.
Fine Asta	3S	-71.7376	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.41359	-0.06637	0.000122	0.205661	1.282128
Fine Asta	4S	0.	-0.41359	-0.06637	0.000122	-7.4e-05	2.16e-08
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.
Inizio Asta	1D	0.	-9.51286	-0.56536	0.001036	1.751996	29.48987
Fine Asta	1D	0.	-9.51286	-0.56536	0.001036	-0.00063	-8.5e-09
Inizio Asta	2D	0.	-9.44917	1.228406	-0.00225	-3.80670	29.29241
Fine Asta	2D	0.	-9.44917	1.228406	-0.00225	0.001363	1.85e-08
Inizio Asta	3D	0.	-0.23466	-14.3433	0.012245	44.45896	0.727436
Fine Asta	3D	0.	-0.23466	-14.3433	0.012245	-0.00742	-1.0e-07
Inizio Asta	4D	0.	0.234657	-10.3668	-0.01225	32.13478	-0.72744
Fine Asta	4D	0.	0.234657	-10.3668	-0.01225	0.007416	1.01e-07
Inizio Asta	5D	0.	-8.52144	-0.50088	0.000917	1.552165	26.41648
Fine Asta	5D	0.	-8.52144	-0.50088	0.000917	-0.00056	-7.5e-09
Inizio Asta	6D	0.	-8.46013	1.086920	-0.00199	-3.36825	26.22639
Fine Asta	6D	0.	-8.46013	1.086920	-0.00199	0.001206	1.64e-08
Inizio Asta	7D	0.	-0.19605	-11.9720	0.010221	37.10860	0.607758
Fine Asta	7D	0.	-0.19605	-11.9720	0.010221	-0.00619	-8.4e-08
Inizio Asta	8D	0.	0.196051	-8.65283	-0.01022	26.82196	-0.60776
Fine Asta	8D	0.	0.196051	-8.65283	-0.01022	0.006190	8.41e-08
Inizio Asta	9D	0.	-21.6837	-1.24593	0.002282	3.861005	67.21954
Fine Asta	9D	0.	-21.6837	-1.24593	0.002282	-0.00138	-1.9e-08
Inizio Asta	10D	0.	-21.5399	2.700202	-0.00495	-8.36763	66.77379
Fine Asta	10D	0.	-21.5399	2.700202	-0.00495	0.002996	4.07e-08



Inizio Asta	11D	0.	-0.41742	-25.4058	0.021689	78.74840	1.293995
Fine Asta	11D	0.	-0.41742	-25.4058	0.021689	-0.01314	-1.8e-07
Inizio Asta	12D	0.	0.417418	-18.3622	-0.02169	56.91899	-1.29400
Fine Asta	12D	0.	0.417418	-18.3622	-0.02169	0.013136	1.78e-07

Beam: 80		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	0.	8.960895	0.	0.	0.
Fine Asta	1S	0.	0.	0.	-8.96089	0.	8.54e-07	0.
Inizio Asta	2S	0.	0.	0.	11.95834	0.	0.	0.
Fine Asta	2S	0.	0.	0.	-11.9583	0.	1.47e-06	0.
Inizio Asta	3S	0.	0.	0.	13.66667	0.	0.	0.
Fine Asta	3S	0.	0.	0.	-13.6667	0.	1.25e-06	0.
Inizio Asta	4S	0.	0.043622	0.	-2.2e-05	0.	0.	0.
Fine Asta	4S	0.	-0.04362	0.	-2.2e-05	0.	-8.5e-09	0.
Inizio Asta	5S	0.043622	0.	0.	0.	0.	0.	0.
Fine Asta	5S	-0.04362	0.	0.	0.	0.	0.	0.
Inizio Asta	6S	0.043622	0.	0.	0.	0.	0.	0.
Fine Asta	6S	-0.04362	0.	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	-0.00018	0.	0.	0.
Fine Asta	1D	0.	0.	0.	-0.00018	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.000400	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.000400	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	-0.00218	0.	0.	0.
Fine Asta	3D	0.	0.	0.	-0.00218	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.002175	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.002175	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	-0.00016	0.	0.	0.
Fine Asta	5D	0.	0.	0.	-0.00016	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.000354	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.000354	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	-0.00182	0.	0.	0.
Fine Asta	7D	0.	0.	0.	-0.00182	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.001816	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.001816	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	-0.00041	0.	0.	0.
Fine Asta	9D	0.	0.	0.	-0.00041	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.000879	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.000879	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	-0.00385	0.	0.	0.
Fine Asta	11D	0.	0.	0.	-0.00385	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.003853	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.003853	0.	0.	0.

Beam: 81		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	-35.4441	0.	0.	0.	0.	0.	0.
Fine Asta	1S	-32.8649	0.	0.	0.	0.	0.	0.
Inizio Asta	2S	-38.8426	0.	0.	0.	0.	0.	0.
Fine Asta	2S	-38.8426	0.	0.	0.	0.	0.	0.
Inizio Asta	3S	-44.3916	0.	0.	0.	0.	0.	0.
Fine Asta	3S	-44.3916	0.	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.39479	-0.06637	0.000122	0.205661	1.223873	0.
Fine Asta	4S	0.	-0.39479	-0.06637	0.000122	-7.4e-05	2.16e-05	0.
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.	0.
Inizio Asta	1D	0.	-9.36790	-0.56536	0.001036	1.751996	29.04067	0.
Fine Asta	1D	0.	-9.36790	-0.56536	0.001036	-0.00063	0.000184	0.
Inizio Asta	2D	0.	-9.76252	1.228406	-0.00225	-3.80670	30.26345	0.
Fine Asta	2D	0.	-9.76252	1.228406	-0.00225	0.001363	-0.00040	0.
Inizio Asta	3D	0.	1.661346	-14.3433	0.012245	44.45896	-5.14800	0.
Fine Asta	3D	0.	1.661346	-14.3433	0.012245	-0.00742	0.002175	0.
Inizio Asta	4D	0.	-1.66135	-10.3668	-0.01225	32.13478	5.147997	0.
Fine Asta	4D	0.	-1.66135	-10.3668	-0.01225	0.007416	-0.00218	0.
Inizio Asta	5D	0.	-8.39144	-0.50088	0.000917	1.552165	26.01361	0.
Fine Asta	5D	0.	-8.39144	-0.50088	0.000917	-0.00056	0.000163	0.
Inizio Asta	6D	0.	-8.74093	1.086920	-0.00199	-3.36825	27.09655	0.
Fine Asta	6D	0.	-8.74093	1.086920	-0.00199	0.001206	-0.00035	0.
Inizio Asta	7D	0.	1.386757	-11.9720	0.010221	37.10860	-4.29713	0.
Fine Asta	7D	0.	1.386757	-11.9720	0.010221	-0.00619	0.001816	0.
Inizio Asta	8D	0.	-1.38676	-8.65283	-0.01022	26.82196	4.297131	0.
Fine Asta	8D	0.	-1.38676	-8.65283	-0.01022	0.006190	-0.00182	0.

Inizio Asta	9D	0.	-21.3520	-1.24593	0.002282	3.861005	66.19169	0.
Fine Asta	9D	0.	-21.3520	-1.24593	0.002282	-0.00138	0.000405	0.
Inizio Asta	10D	0.	-22.2563	2.700202	-0.00495	-8.36763	68.99378	0.
Fine Asta	10D	0.	-22.2563	2.700202	-0.00495	0.002996	-0.00088	0.
Inizio Asta	11D	0.	2.943367	-25.4058	0.021689	78.74840	-9.12059	0.
Fine Asta	11D	0.	2.943367	-25.4058	0.021689	-0.01314	0.003853	0.
Inizio Asta	12D	0.	-2.94337	-18.3622	-0.02169	56.91899	9.120586	0.
Fine Asta	12D	0.	-2.94337	-18.3622	-0.02169	0.013136	-0.00385	0.

Beam: 82		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	0.	12.78717	0.	0.	0.
Fine Asta	1S	0.	0.	0.	9.041586	0.	14.91636	0.
Inizio Asta	2S	0.	0.	0.	13.65670	0.	0.	0.
Fine Asta	2S	0.	0.	0.	10.93019	0.	16.80110	0.
Inizio Asta	3S	0.	0.	0.	15.60766	0.	0.	0.
Fine Asta	3S	0.	0.	0.	12.49165	0.	19.20125	0.
Inizio Asta	4S	0.002486	0.	0.	0.	0.	0.	0.
Fine Asta	4S	-0.00249	0.	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.40755	0.	0.	0.	0.	0.
Fine Asta	5S	0.	0.679244	0.	0.	0.	0.185661	0.
Inizio Asta	6S	0.	0.200976	0.	0.	0.	0.	0.
Fine Asta	6S	0.	-0.33496	0.	0.	0.	-0.09156	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.	0.

Beam: 83		CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler			QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	0.	15.76313	0.	0.	0.
Fine Asta	1S	0.	0.	0.	14.93881	0.	20.97972	0.
Inizio Asta	2S	0.	0.	0.	19.72038	0.	0.	0.
Fine Asta	2S	0.	0.	0.	19.72038	0.	26.95126	0.
Inizio Asta	3S	0.	0.	0.	22.53757	0.	0.	0.
Fine Asta	3S	0.	0.	0.	22.53757	0.	30.80144	0.
Inizio Asta	4S	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4S	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.20284	0.	0.	0.	0.	0.
Fine Asta	5S	0.	0.338068	0.	0.	0.	0.092406	0.
Inizio Asta	6S	0.	0.405682	0.	0.	0.	0.	0.
Fine Asta	6S	0.	-0.67614	0.	0.	0.	-0.18481	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.	0.



Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 84		CdC	N	T2	T3	MT	M2	M3
			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	0.	11.01599	0.	0.	0.
Fine Asta	1S	0.	0.	0.	8.397915	0.	13.26621	0.
Inizio Asta	2S	0.	0.	0.	12.41468	0.	0.	0.
Fine Asta	2S	0.	0.	0.	10.74051	0.	15.82276	0.
Inizio Asta	3S	0.	0.	0.	14.18821	0.	0.	0.
Fine Asta	3S	0.	0.	0.	12.27487	0.	18.08316	0.
Inizio Asta	4S	0.001527	0.	0.	0.	0.	0.	0.
Fine Asta	4S	-0.00153	0.	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.00115	0.	0.	0.	0.	0.
Fine Asta	5S	0.	0.001908	0.	0.	0.	0.000522	0.
Inizio Asta	6S	0.	-0.00115	0.	0.	0.	0.	0.
Fine Asta	6S	0.	0.001908	0.	0.	0.	0.000522	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.	0.

Beam: 85		CdC	N	T2	T3	MT	M2	M3
			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	0.	7.168725	0.000371	0.	0.
Fine Asta	1S	0.	0.	0.	-7.16873	0.000371	3.70e-08	0.
Inizio Asta	2S	0.	0.	0.	9.566684	0.000766	0.	0.
Fine Asta	2S	0.	0.	0.	-9.56668	0.000766	1.19e-06	0.
Inizio Asta	3S	0.	0.	0.	10.93335	0.000875	0.	0.
Fine Asta	3S	0.	0.	0.	-10.9334	0.000875	7.90e-08	0.
Inizio Asta	4S	0.	0.034897	0.	0.	0.	0.	0.
Fine Asta	4S	0.	-0.03490	0.	0.	0.	-2.2e-09	0.
Inizio Asta	5S	0.034897	0.	0.	0.	0.	0.	0.
Fine Asta	5S	-0.03490	0.	0.	0.	0.	0.	0.
Inizio Asta	6S	0.034897	0.	0.	0.	0.	0.	0.
Fine Asta	6S	-0.03490	0.	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.

Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 86		CdC	N	T2	T3	MT	M2	M3
			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	0.	8.960906	-0.00065	0.	0.
Fine Asta	1S	0.	0.	0.	-8.96091	-0.00065	-5.5e-07	0.
Inizio Asta	2S	0.	0.	0.	11.95835	-0.00093	0.	0.
Fine Asta	2S	0.	0.	0.	-11.9584	-0.00093	1.87e-06	0.
Inizio Asta	3S	0.	0.	0.	13.66669	-0.00106	0.	0.
Fine Asta	3S	0.	0.	0.	-13.6667	-0.00106	-1.1e-06	0.
Inizio Asta	4S	0.	0.043622	0.	0.	0.	0.	0.
Fine Asta	4S	0.	-0.04362	0.	0.	0.	0.	-3.5e-09
Inizio Asta	5S	0.043622	0.	0.	0.	0.	0.	0.
Fine Asta	5S	-0.04362	0.	0.	0.	0.	0.	0.
Inizio Asta	6S	0.043622	0.	0.	0.	0.	0.	0.
Fine Asta	6S	-0.04362	0.	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.	0.

Beam: 87		CdC	N	T2	T3	MT	M2	M3
			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
Reazioni Winkler			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	0.	1.872861	0.	14.91673	0.
Fine Asta	1S	0.	0.	0.	-1.87271	0.	14.91684	0.
Inizio Asta	2S	0.	0.	0.	1.363508	0.	16.80186	0.
Fine Asta	2S	0.	0.	0.	-1.36299	0.	16.80221	0.
Inizio Asta	3S	0.	0.	0.	1.558295	0.	19.20213	0.
Fine Asta	3S	0.	0.	0.	-1.55771	0.	19.20253	0.
Inizio Asta	4S	0.002486	0.	0.	0.	0.	0.	0.
Fine Asta	4S	-0.00249	0.	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.54339	0.	0.	0.	0.	0.123773
Fine Asta	5S	0.	0.543394	0.	0.	0.	0.	0.123773
Inizio Asta	6S	0.	0.267967	0.	0.	0.	0.	-0.06104
Fine Asta	6S	0.	-0.26797	0.	0.	0.	0.	-0.06104
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.

VALBONDIONE TERRAZZA ESTERNA

FASCICOLO DEI CALCOLI



Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 88	CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)		

Inizio Asta	1S	0.	0.	-1.19083	0.	20.97871	0.
Fine Asta	1S	0.	0.	-2.01515	0.	18.78796	0.
Inizio Asta	2S	0.	0.	-1.80466	0.	26.94957	0.
Fine Asta	2S	0.	0.	-1.80466	0.	24.48320	0.
Inizio Asta	3S	0.	0.	-2.06247	0.	30.79951	0.
Fine Asta	3S	0.	0.	-2.06247	0.	27.98080	0.
Inizio Asta	4S	0.	0.	0.	0.	0.	0.
Fine Asta	4S	0.	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.27045	0.	0.	0.	0.061603
Fine Asta	5S	0.	0.270454	0.	0.	0.	0.061603
Inizio Asta	6S	0.	0.540907	0.	0.	-0.12321	0.
Fine Asta	6S	0.	-0.54091	0.	0.	0.	-0.12321
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 89	CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)		

Inizio Asta	1S	0.	0.	-0.56299	0.	13.26686	0.
Fine Asta	1S	0.	0.	-3.18106	0.	10.70842	0.
Inizio Asta	2S	0.	0.	-1.21784	0.	15.82369	0.
Fine Asta	2S	0.	0.	-2.89201	0.	13.01529	0.
Inizio Asta	3S	0.	0.	-1.39182	0.	18.08422	0.
Fine Asta	3S	0.	0.	-3.30516	0.	14.87462	0.
Inizio Asta	4S	0.001527	0.	0.	0.	0.	0.
Fine Asta	4S	-0.00153	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.00153	0.	0.	0.	0.000348
Fine Asta	5S	0.	0.001527	0.	0.	0.	0.000348
Inizio Asta	6S	0.	-0.00153	0.	0.	0.	0.000348
Fine Asta	6S	0.	0.001527	0.	0.	0.	0.000348

Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 90	CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)		

Inizio Asta	1S	0.	0.	7.168704	-0.00059	0.	0.
Fine Asta	1S	0.	0.	-7.16870	-0.00059	4.99e-07	0.
Inizio Asta	2S	0.	0.	9.566651	-0.00101	0.	0.
Fine Asta	2S	0.	0.	-9.56665	-0.00101	-1.7e-06	0.
Inizio Asta	3S	0.	0.	10.93332	-0.00116	0.	0.
Fine Asta	3S	0.	0.	-10.9333	-0.00116	-4.5e-07	0.
Inizio Asta	4S	0.	0.034897	0.	0.	0.	0.
Fine Asta	4S	0.	-0.03490	0.	0.	0.	-3.6e-10
Inizio Asta	5S	0.034897	0.	0.	0.	0.	0.
Fine Asta	5S	-0.03490	0.	0.	0.	0.	0.
Inizio Asta	6S	0.034897	0.	0.	0.	0.	0.
Fine Asta	6S	-0.03490	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 91	CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)		

Inizio Asta	1S	0.	0.	8.960879	0.000624	0.	0.
Fine Asta	1S	0.	0.	-8.96088	0.000624	-2.3e-06	0.
Inizio Asta	2S	0.	0.	11.95831	0.000909	0.	0.
Fine Asta	2S	0.	0.	-11.9583	0.000909	-1.5e-06	0.
Inizio Asta	3S	0.	0.	13.66665	0.001039	0.	0.
Fine Asta	3S	0.	0.	-13.6666	0.001039	-7.1e-07	0.
Inizio Asta	4S	0.	0.043621	0.	0.	0.	0.
Fine Asta	4S	0.	-0.04362	0.	0.	0.	8.98e-09

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Inizio Asta	5S	0.043621	0.	0.	0.	0.	0.
Fine Asta	5S	-0.04362	0.	0.	0.	0.	0.
Inizio Asta	6S	0.043621	0.	0.	0.	0.	0.
Fine Asta	6S	-0.04362	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 92	CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)		

Inizio Asta	1S	0.	0.	-9.04141	0.	14.91625	0.
Fine Asta	1S	0.	0.	-12.7870	0.	0.000238	0.
Inizio Asta	2S	0.	0.	-10.9296	0.	16.80120	0.
Fine Asta	2S	0.	0.	-13.6561	0.	0.000976	0.
Inizio Asta	3S	0.	0.	-12.4910	0.	19.20137	0.
Fine Asta	3S	0.	0.	-15.6070	0.	0.001116	0.
Inizio Asta	4S	0.002486	0.	0.	0.	0.	0.
Fine Asta	4S	-0.00249	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.54339	0.	0.	0.	0.123772
Fine Asta	5S	0.	0.543392	0.	0.	0.	0.123772
Inizio Asta	6S	0.	0.267966	0.	0.	0.	-0.06104
Fine Asta	6S	0.	-0.26797	0.	0.	0.	-0.06104
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 93	CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)		

Inizio Asta	1S	0.	0.	-18.1447	0.	18.78917	0.
Fine Asta	1S	0.	0.	-18.9690	0.	-6.57182	0.
Inizio Asta	2S	0.	0.	-23.3296	0.	24.48512	0.
Fine Asta	2S	0.	0.	-23.3296	0.	-7.39860	0.

Inizio Asta	3S	0.	0.	-26.6624	0.	27.98299	0.
Fine Asta	3S	0.	0.	-26.6624	0.	-8.45554	0.
Inizio Asta	4S	0.	0.	0.	0.	0.	0.
Fine Asta	4S	0.	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.27045	0.	0.	0.	0.061603
Fine Asta	5S	0.	0.270453	0.	0.	0.	0.061603
Inizio Asta	6S	0.	0.540905	0.	0.	0.	-0.12321
Fine Asta	6S	0.	-0.54091	0.	0.	0.	-0.12321
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 94	CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
		QW2	QW3	P2	P3		
		(kN/m)	(kN/m)	(N/mm ²)	(N/mm ²)		

Inizio Asta	1S	0.	0.	-12.1419	0.	10.70780	0.
Fine Asta	1S	0.	0.	-14.7600	0.	-7.67514	0.
Inizio Asta	2S	0.	0.	-14.8503	0.	13.01438	0.
Fine Asta	2S	0.	0.	-16.5245	0.	-8.42500	0.
Inizio Asta	3S	0.	0.	-16.9718	0.	14.87358	0.
Fine Asta	3S	0.	0.	-18.8851	0.	-9.62857	0.
Inizio Asta	4S	0.001527	0.	0.	0.	0.	0.
Fine Asta	4S	-0.00153	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.00153	0.	0.	0.	0.000348
Fine Asta	5S	0.	0.001527	0.	0.	0.	0.000348
Inizio Asta	6S	0.	-0.00153	0.	0.	0.	0.000348
Fine Asta	6S	0.	0.001527	0.	0.	0.	0.000348
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

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Beam: 95	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	-20.1323	0.	0.	0.	0.	0.
Fine Asta	1S	-17.5532	0.	0.	0.	0.	0.
Inizio Asta	2S	-19.7191	0.	0.	0.	0.	0.
Fine Asta	2S	-19.7191	0.	0.	0.	0.	0.
Inizio Asta	3S	-22.5362	0.	0.	0.	0.	0.
Fine Asta	3S	-22.5362	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.42862	-0.11055	0.000122	0.342707	1.328723
Fine Asta	4S	0.	-0.42862	-0.11055	0.000122	-7.9e-09	3.87e-08
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.
Inizio Asta	1D	0.	-9.62911	-0.94176	0.001036	2.919470	29.85024
Fine Asta	1D	0.	-9.62911	-0.94176	0.001036	0.	0.
Inizio Asta	2D	0.	-9.20041	2.046245	-0.00225	-6.34336	28.52127
Fine Asta	2D	0.	-9.20041	2.046245	-0.00225	0.	0.
Inizio Asta	3D	0.	-1.74689	-17.8258	0.012245	55.25984	5.415373
Fine Asta	3D	0.	-1.74689	-17.8258	0.012245	0.	0.
Inizio Asta	4D	0.	1.746894	-12.4128	-0.01225	38.47954	-5.41537
Fine Asta	4D	0.	1.746894	-12.4128	-0.01225	0.	0.
Inizio Asta	5D	0.	-8.62566	-0.83435	0.000917	2.586479	26.73955
Fine Asta	5D	0.	-8.62566	-0.83435	0.000917	0.	0.
Inizio Asta	6D	0.	-8.23700	1.810561	-0.00199	-5.61274	25.53471
Fine Asta	6D	0.	-8.23700	1.810561	-0.00199	0.	0.
Inizio Asta	7D	0.	-1.45807	-14.8786	0.010221	46.12380	4.520010
Fine Asta	7D	0.	-1.45807	-14.8786	0.010221	0.	0.
Inizio Asta	8D	0.	1.458068	-10.3606	-0.01022	32.11774	-4.52001
Fine Asta	8D	0.	1.458068	-10.3606	-0.01022	0.	0.
Inizio Asta	9D	0.	-21.9494	-2.07544	0.002282	6.433857	68.04314
Fine Asta	9D	0.	-21.9494	-2.07544	0.002282	0.	0.
Inizio Asta	10D	0.	-20.9696	4.497921	-0.00495	-13.9436	65.00576
Fine Asta	10D	0.	-20.9696	4.497921	-0.00495	0.	0.
Inizio Asta	11D	0.	-3.09411	-31.5741	0.021689	97.87961	9.591748
Fine Asta	11D	0.	-3.09411	-31.5741	0.021689	0.	0.
Inizio Asta	12D	0.	3.094112	-21.9862	-0.02169	68.15719	-9.59175
Fine Asta	12D	0.	3.094112	-21.9862	-0.02169	0.	0.

Beam: 96	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	4.766203	-0.00024	0.	0.
Fine Asta	1S	0.	0.	-0.09468	-0.00024	5.839409	0.
Inizio Asta	2S	0.	0.	6.063005	-0.00098	0.	0.
Fine Asta	2S	0.	0.	0.083858	-0.00098	7.683579	0.
Inizio Asta	3S	0.	0.	6.929148	-0.00112	0.	0.
Fine Asta	3S	0.	0.	0.095838	-0.00112	8.781233	0.
Inizio Asta	4S	0.	0.379228	0.	0.	0.	0.
Fine Asta	4S	0.	-0.63205	0.	0.	0.	-0.31602
Inizio Asta	5S	0.010905	0.	0.	0.	0.	0.
Fine Asta	5S	-0.01091	0.	0.	0.	0.	0.
Inizio Asta	6S	0.010905	0.	0.	0.	0.	0.
Fine Asta	6S	-0.01091	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.

Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 97	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	0.	0.	-0.09468	-0.00024	5.839409	0.
Fine Asta	1S	0.	0.	-7.69120	-0.00024	-2.3e-07	0.
Inizio Asta	2S	0.	0.	0.083858	-0.00098	7.683579	0.
Fine Asta	2S	0.	0.	-10.3286	-0.00098	-1.7e-07	0.
Inizio Asta	3S	0.	0.	0.095838	-0.00112	8.781233	0.
Fine Asta	3S	0.	0.	-11.8041	-0.00112	8.37e-08	0.
Inizio Asta	4S	0.	0.387008	0.	0.	0.	-0.11610
Fine Asta	4S	0.	-0.23220	0.	0.	0.	-5.6e-09
Inizio Asta	5S	0.012767	0.	0.	0.	0.	0.
Fine Asta	5S	-0.01277	0.	0.	0.	0.	0.
Inizio Asta	6S	0.012767	0.	0.	0.	0.	0.
Fine Asta	6S	-0.01277	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.

Beam: 98	CdC	N (kN)	T2 (kN)	T3 (kN)	MT (kNm)	M2 (kNm)	M3 (kNm)
Reazioni Winkler		QW2 (kN/m)	QW3 (kN/m)	P2 (N/mm²)	P3 (N/mm²)		
Inizio Asta	1S	-43.4453	0.	0.	0.	0.	0.
Fine Asta	1S	-40.8661	0.	0.	0.	0.	0.
Inizio Asta	2S	-51.0124	0.	0.	0.	0.	0.
Fine Asta	2S	-51.0124	0.	0.	0.	0.	0.
Inizio Asta	3S	-58.2999	0.	0.	0.	0.	0.
Fine Asta	3S	-58.2999	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.41359	-0.11055	0.000122	0.342707	1.282128
Fine Asta	4S	0.	-0.41359	-0.11055	0.000122	-7.9e-09	2.16e-08
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.
Inizio Asta	1D	0.	-9.51286	-0.94176	0.001036	2.919470	29.48987
Fine Asta	1D	0.	-9.51286	-0.94176	0.001036	0.	0.
Inizio Asta	2D	0.	-9.44917	2.046245	-0.00225	-6.34336	29.29241
Fine Asta	2D	0.	-9.44917	2.046245	-0.00225	0.	0.
Inizio Asta	3D	0.	-0.23466	-17.8258	0.012245	55.25984	0.727436
Fine Asta	3D	0.	-0.23466	-17.8258	0.012245	0.	0.
Inizio Asta	4D	0.	0.234657	-12.4128	-0.01225	38.47954	-0.72744
Fine Asta	4D	0.	0.234657	-12.4128	-0.01225	0.	0.
Inizio Asta	5D	0.	-8.52144	-0.83435	0.000917	2.586479	26.41648
Fine Asta	5D	0.	-8.52144	-0.83435	0.000917	0.	0.
Inizio Asta	6D	0.	-8.46013	1.810561	-0.00199	-5.61274	26.22639
Fine Asta	6D	0.	-8.46013	1.810561	-0.00199	0.	0.
Inizio Asta	7D	0.	-0.19605	-14.8786	0.010221	46.12380	0.607758
Fine Asta	7D	0.	-0.19605	-14.8786	0.010221	0.	0.
Inizio Asta	8D	0.	0.196051	-10.3606	-0.01022	32.11774	-0.60776
Fine Asta	8D	0.	0.196051	-10.3606	-0.01022	0.	0.



Inizio Asta	9D	0.	-21.6837	-2.07544	0.002282	6.433857	67.21954
Fine Asta	9D	0.	-21.6837	-2.07544	0.002282	0.	0.
Inizio Asta	10D	0.	-21.5399	4.497921	-0.00495	-13.9436	66.77379
Fine Asta	10D	0.	-21.5399	4.497921	-0.00495	0.	0.
Inizio Asta	11D	0.	-0.41742	-31.5741	0.021689	97.87961	1.293995
Fine Asta	11D	0.	-0.41742	-31.5741	0.021689	0.	0.
Inizio Asta	12D	0.	0.417418	-21.9862	-0.02169	68.15719	-1.29400
Fine Asta	12D	0.	0.417418	-21.9862	-0.02169	0.	0.

Beam: 99		CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	8.760878	0.001349	0.	0.	0.
Fine Asta	1S	0.	0.	-8.76088	0.001349	-2.1e-06	0.	0.
Inizio Asta	2S	0.	0.	11.66665	0.001910	0.	0.	0.
Fine Asta	2S	0.	0.	-11.6666	0.001910	-6.3e-07	0.	0.
Inizio Asta	3S	0.	0.	13.33331	0.002183	0.	0.	0.
Fine Asta	3S	0.	0.	-13.3333	0.002183	-4.3e-07	0.	0.
Inizio Asta	4S	0.	0.042558	0.	0.	0.	0.	0.
Fine Asta	4S	0.	-0.04256	0.	0.	0.	7.04e-09	0.
Inizio Asta	5S	0.042558	0.	0.	0.	0.	0.	0.
Fine Asta	5S	-0.04256	0.	0.	0.	0.	0.	0.
Inizio Asta	6S	0.042558	0.	0.	0.	0.	0.	0.
Fine Asta	6S	-0.04256	0.	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.	0.

Beam: 100		CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	-33.2513	0.	0.	0.	0.	0.	0.
Fine Asta	1S	-30.6721	0.	0.	0.	0.	0.	0.
Inizio Asta	2S	-35.4711	0.	0.	0.	0.	0.	0.
Fine Asta	2S	-35.4711	0.	0.	0.	0.	0.	0.
Inizio Asta	3S	-40.5384	0.	0.	0.	0.	0.	0.
Fine Asta	3S	-40.5384	0.	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	-0.39480	-0.11055	0.000122	0.342707	1.223884	0.
Fine Asta	4S	0.	-0.39480	-0.11055	0.000122	-7.9e-09	2.44e-10	0.
Inizio Asta	5S	0.	0.	-1.50075	0.	4.652318	0.	0.
Fine Asta	5S	0.	0.	-1.50075	0.	-1.9e-07	0.	0.
Inizio Asta	6S	0.	0.	1.203788	0.	-3.73174	0.	0.
Fine Asta	6S	0.	0.	1.203788	0.	1.88e-07	0.	0.
Inizio Asta	1D	0.	-9.36798	-0.94176	0.001036	2.919470	29.04075	0.
Fine Asta	1D	0.	-9.36798	-0.94176	0.001036	0.	0.	0.
Inizio Asta	2D	0.	-9.76235	2.046245	-0.00225	-6.34336	30.26327	0.
Fine Asta	2D	0.	-9.76235	2.046245	-0.00225	0.	0.	0.
Inizio Asta	3D	0.	1.660294	-17.8258	0.012245	55.25984	-5.14691	0.
Fine Asta	3D	0.	1.660294	-17.8258	0.012245	0.	0.	0.
Inizio Asta	4D	0.	-1.66029	-12.4128	-0.01225	38.47954	5.146910	0.
Fine Asta	4D	0.	-1.66029	-12.4128	-0.01225	0.	0.	0.
Inizio Asta	5D	0.	-8.39151	-0.83435	0.000917	2.586479	26.01368	0.
Fine Asta	5D	0.	-8.39151	-0.83435	0.000917	0.	0.	0.
Inizio Asta	6D	0.	-8.74077	1.810561	-0.00199	-5.61274	27.09638	0.
Fine Asta	6D	0.	-8.74077	1.810561	-0.00199	0.	0.	0.

Inizio Asta	7D	0.	1.385879	-14.8786	0.010221	46.12380	-4.29622	0.
Fine Asta	7D	0.	1.385879	-14.8786	0.010221	0.	0.	0.
Inizio Asta	8D	0.	-1.38588	-10.3606	-0.01022	32.11774	4.296224	0.
Fine Asta	8D	0.	-1.38588	-10.3606	-0.01022	0.	0.	0.
Inizio Asta	9D	0.	-21.3522	-2.07544	0.002282	6.433857	66.19188	0.
Fine Asta	9D	0.	-21.3522	-2.07544	0.002282	0.	0.	0.
Inizio Asta	10D	0.	-22.2559	4.497921	-0.00495	-13.9436	68.99338	0.
Fine Asta	10D	0.	-22.2559	4.497921	-0.00495	0.	0.	0.
Inizio Asta	11D	0.	2.941504	-31.5741	0.021689	97.87961	-9.11866	0.
Fine Asta	11D	0.	2.941504	-31.5741	0.021689	0.	0.	0.
Inizio Asta	12D	0.	-2.94150	-21.9862	-0.02169	68.15719	9.118661	0.
Fine Asta	12D	0.	-2.94150	-21.9862	-0.02169	0.	0.	0.

Beam: 101		CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	5.445002	0.	-6.57024	0.	0.
Fine Asta	1S	0.	0.	4.660892	0.	-0.00141	0.	0.
Inizio Asta	2S	0.	0.	5.687500	0.	-7.39571	0.	0.
Fine Asta	2S	0.	0.	5.687500	0.	-0.00196	0.	0.
Inizio Asta	3S	0.	0.	6.500000	0.	-8.45224	0.	0.
Fine Asta	3S	0.	0.	6.500000	0.	-0.00224	0.	0.
Inizio Asta	4S	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4S	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	0.	0.	0.	0.	0.	0.
Fine Asta	5S	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	6S	0.	0.	0.	0.	0.	0.	0.
Fine Asta	6S	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	5D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.	0.

Beam: 102		CdC	N	T2	T3	MT	M2	M3
Reazioni Winkler			(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)
			QW2	QW3	P2	P3		
			(kN/m)	(kN/m)	(N/mm²)	(N/mm²)		
Inizio Asta	1S	0.	0.	7.151252	0.	-7.67649	0.	0.
Fine Asta	1S	0.	0.	4.660892	0.	0.001407	0.	0.
Inizio Asta	2S	0.	0.	7.280000	0.	-8.42691	0.	0.
Fine Asta	2S	0.	0.	5.687500	0.	0.001963	0.	0.
Inizio Asta	3S	0.	0.	8.320000	0.	-9.63076	0.	0.
Fine Asta	3S	0.	0.	6.500000	0.	0.002243	0.	0.
Inizio Asta	4S	0.001452	0.	0.	0.	0.	0.	0.
Fine Asta	4S	-0.00145	0.	0.	0.	0.	0.	0.
Inizio Asta	5S	0.	-0.00145	0.	0.	0.	0.000315	0.
Fine Asta	5S	0.	0.001452	0.	0.	0.	0.000315	0.
Inizio Asta	6S	0.	-0.00145	0.	0.	0.	0.000315	0.
Fine Asta	6S	0.	0.001452	0.	0.	0.	0.000315	0.
Inizio Asta	1D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	1D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	2D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	2D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	3D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	3D	0.	0.	0.	0.	0.	0.	0.
Inizio Asta	4D	0.	0.	0.	0.	0.	0.	0.
Fine Asta	4D	0.	0.	0.	0.	0.	0.	0.

Inizio Asta	5D	0.	0.	0.	0.	0.	0.	Inizio Asta	5S	0.020747	0.	0.	0.	0.	0.
Fine Asta	5D	0.	0.	0.	0.	0.	0.	Fine Asta	5S	-0.02075	0.	0.	0.	0.	0.
Inizio Asta	6D	0.	0.	0.	0.	0.	0.	Inizio Asta	6S	0.020747	0.	0.	0.	0.	0.
Fine Asta	6D	0.	0.	0.	0.	0.	0.	Fine Asta	6S	-0.02075	0.	0.	0.	0.	0.
Inizio Asta	7D	0.	0.	0.	0.	0.	0.	Inizio Asta	1D	0.	0.	0.	0.	0.	0.
Fine Asta	7D	0.	0.	0.	0.	0.	0.	Fine Asta	1D	0.	0.	0.	0.	0.	0.
Inizio Asta	8D	0.	0.	0.	0.	0.	0.	Inizio Asta	2D	0.	0.	0.	0.	0.	0.
Fine Asta	8D	0.	0.	0.	0.	0.	0.	Fine Asta	2D	0.	0.	0.	0.	0.	0.
Inizio Asta	9D	0.	0.	0.	0.	0.	0.	Inizio Asta	3D	0.	0.	0.	0.	0.	0.
Fine Asta	9D	0.	0.	0.	0.	0.	0.	Fine Asta	3D	0.	0.	0.	0.	0.	0.
Inizio Asta	10D	0.	0.	0.	0.	0.	0.	Inizio Asta	4D	0.	0.	0.	0.	0.	0.
Fine Asta	10D	0.	0.	0.	0.	0.	0.	Fine Asta	4D	0.	0.	0.	0.	0.	0.
Inizio Asta	11D	0.	0.	0.	0.	0.	0.	Inizio Asta	5D	0.	0.	0.	0.	0.	0.
Fine Asta	11D	0.	0.	0.	0.	0.	0.	Fine Asta	5D	0.	0.	0.	0.	0.	0.
Inizio Asta	12D	0.	0.	0.	0.	0.	0.	Inizio Asta	6D	0.	0.	0.	0.	0.	0.
Fine Asta	12D	0.	0.	0.	0.	0.	0.	Fine Asta	6D	0.	0.	0.	0.	0.	0.
								Inizio Asta	7D	0.	0.	0.	0.	0.	0.
Beam: 103	CdC	N	T2	T3	MT	M2	M3	Fine Asta	7D	0.	0.	0.	0.	0.	0.
		(kN)	(kN)	(kN)	(kNm)	(kNm)	(kNm)	Inizio Asta	8D	0.	0.	0.	0.	0.	0.
Reazioni Winkler		QW2	QW3	P2	P3										
		(kN/m)	(kN/m)	(N/mm²)	(N/mm²)										
Inizio Asta	1S	0.	0.	4.660892	0.001407	0.	0.	Inizio Asta	9D	0.	0.	0.	0.	0.	0.
Fine Asta	1S	0.	0.	-4.66089	0.001407	-3.3e-07	0.	Fine Asta	9D	0.	0.	0.	0.	0.	0.
Inizio Asta	2S	0.	0.	5.687500	0.001963	0.	0.	Inizio Asta	10D	0.	0.	0.	0.	0.	0.
Fine Asta	2S	0.	0.	-5.68750	0.001963	-8.8e-07	0.	Fine Asta	10D	0.	0.	0.	0.	0.	0.
Inizio Asta	3S	0.	0.	6.500000	0.002244	0.	0.	Inizio Asta	11D	0.	0.	0.	0.	0.	0.
Fine Asta	3S	0.	0.	-6.50000	0.002244	8.98e-07	0.	Fine Asta	11D	0.	0.	0.	0.	0.	0.
Inizio Asta	4S	0.	0.020747	0.	0.	0.	0.	Inizio Asta	12D	0.	0.	0.	0.	0.	0.
Fine Asta	4S	0.	-0.02075	0.	0.	0.	3.33e-09	Fine Asta	12D	0.	0.	0.	0.	0.	0.

3. INVILUPPO RISULTATI DELLE CONDIZIONI ELEMENTARI

I risultati contengono sia involuppi sia combinazioni dei risultati delle condizioni di carico elementari.

Una condizione di involuppo può essere di tipo “automatico” e in questo caso è un vero e proprio involuppo dei valori minimi o massimi che ogni singola grandezza può assumere per effetto della combinazione lineare dei valori di ogni condizione di carico elementare, moltiplicati per il coefficiente che tra i due possibili risulta più tassativo.

Tutte le condizioni di carico in caso di involuppo sono trattate tramite due moltiplicatori uno minimo e uno massimo per dare la possibilità di considerare azioni (tipo azione del vento o sisma) che possono agire in due direzioni opposte.

I risultati contengono sia involuppi sia combinazioni assegnate dei risultati delle condizioni di carico elementari.

La combinazione lineare automatica può essere svolta anche su risultati di involuppi, detti in questo caso involuppi base, anziché di condizioni di carico elementare. Il risultato è un involuppo di involuppi.

Le condizioni di carico possono essere distinte nelle seguenti tipologie:

- **Permanente:** la CdC elementare è sempre presente nell’involuppo e viene scelto il coefficiente più tassativo.
- **Variabile:** le sollecitazioni della CdC elementare sono sommate solo se la componente considerata (Forza, momento flettente, spostamento in una direzione, ecc.) è a sfavore, diminuendo il valore finale se si cerca il minimo, aumentando il valore finale se si cerca il massimo, scegliendo sempre il coefficiente più tassativo.

- **Variabile non Contemporanea:** analoga alla Variabile ma vengono sommate le sollecitazioni della sola e unica CdC più gravosa, per la componente in esame, fra tutte quelle che appartengono allo stesso gruppo (colonna grp), escludendo le altre CdC dello stesso gruppo.
- **Permanente non Contemporanea:** analoga alle var. non contemporanea con la differenza che le sollecitazioni di almeno una CdC dello stesso gruppo (la più gravosa o la meno favorevole) vengono sommate anche se con effetto favorevole; in questo caso viene scelta la meno favorevole per la componente in esame.
- **Variabile Contemporanea:** le sollecitazioni della CdC elementare sono sommate insieme a tutte quelle Variabili Contemporanee che appartengono allo stesso gruppo (colonna grp) solo se applicandole tutte assieme vanno a sfavore diminuendo il valore finale se si cerca il minimo, aumentando il valore finale se si cerca il massimo.
- **Non Considerata:** le sollecitazioni della CdC elementare non contribuiscono all'inviluppo.

3.1 INVILUPPO REAZIONI VINCOLARI

Per ciascuna Condizione di Carico di Inviluppo vengono riportate le reazioni vincolari inviluppate nei nodi vincolati

N	= Numero del Nodo
CdC	= Condizione di Carico di Inviluppo
R _x	= Forza in direzione X
R _y	= Forza in direzione Y
R _z	= Forza in direzione Z
M _x	= Momento attorno all'asse X
M _y	= Momento attorno all'asse Y
M _z	= Momento attorno all'asse Z

Sono di seguito elencati i dati dei seguenti inviluppi:

- ~SL18 GEO
- ~SL18 SLE caratt.
- ~SL18 STR SLV

3.1.1 DESCRIZIONE INVILUPPO “~SL18 GEO”

Agisce su tutte le entità del modello.

Condizioni di inviluppo automatiche

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Inviluppo	~SL18 GEO_1	Perm.non Contemp.	1	1	1
Inviluppo	~SL18 GEO_2	Perm.non Contemp.	1	1	1
Inviluppo	~SL18 SLU Sism. Orizz._1	Perm.non Contemp.	1	1	1
Inviluppo	~SL18 SLU Sism. Orizz._2	Perm.non Contemp.	1	1	1

Descrizione degli inviluppi contenuti nell'inviluppo “~SL18 GEO”

Descrizione inviluppo “~SL18 GEO_1”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
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CdC elem. 1St	CdC n. 1	Permanente		1	1.3
CdC elem. 2St	CdC n. 2	Permanente		0.8	1.5
CdC elem. 3St	CdC n. 3	Variabile		0	1.5
CdC elem. 4St	VENTO X	Var.non Contemp.	3	-0.9	0.9
CdC elem. 5St	VENTO Y	Var.non Contemp.	3	-0.9	0.9
CdC elem. 6St	VENTO Y-	Var.non Contemp.	3	0	0.9

Descrizione inviluppo “~SL18 GEO_2”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1.3
CdC elem. 2St	CdC n. 2	Permanente		0.8	1.5
CdC elem. 3St	CdC n. 3	Variabile		0	1.05
CdC elem. 4St	VENTO X	Var.non Contemp.	3	-1.5	1.5
CdC elem. 5St	VENTO Y	Var.non Contemp.	3	-1.5	1.5
CdC elem. 6St	VENTO Y-	Var.non Contemp.	3	0	1.5

Descrizione inviluppo “~SL18 SLU Sism. Orizz._1”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Permanente		0.8	1
CdC elem. 3St	CdC n. 3	Variabile		0	0.6
CdC elem. 9Dy	Sisma SLV X Dx	Var.non Contemp.	4	-1	1
CdC elem. 10Dy	Sisma SLV X Sx	Var.non Contemp.	4	-1	1
CdC elem. 11Dy	Sisma SLV Y Dx	Var.non Contemp.	5	-0.3	0.3
CdC elem. 12Dy	Sisma SLV Y Sx	Var.non Contemp.	5	-0.3	0.3

Descrizione inviluppo “~SL18 SLU Sism. Orizz._2”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Permanente		0.8	1
CdC elem. 3St	CdC n. 3	Variabile		0	0.6
CdC elem. 9Dy	Sisma SLV X Dx	Var.non Contemp.	4	-0.3	0.3
CdC elem. 10Dy	Sisma SLV X Sx	Var.non Contemp.	4	-0.3	0.3
CdC elem. 11Dy	Sisma SLV Y Dx	Var.non Contemp.	5	-1	1
CdC elem. 12Dy	Sisma SLV Y Sx	Var.non Contemp.	5	-1	1

3.1.2 DESCRIZIONE INVILUPPO “~SL18 SLE CARATT.”

Agisce su tutte le entità del modello.

Condizioni di inviluppo automatiche

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Inviluppo	~SL18 SLE caratt._1	Perm.non Contemp.	1	1	1
Inviluppo	~SL18 SLE caratt._2	Perm.non Contemp.	1	1	1

Descrizione degli inviluppi contenuti nell’inviluppo “~SL18 SLE caratt.”

Descrizione inviluppo “~SL18 SLE caratt._1”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Permanente		1	1

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FASCICOLO DEI CALCOLI

CdC elem. 3St	CdC n. 3	Variabile		0	1
CdC elem. 4St	VENTO X	Var.non Contemp.	3	-0.6	0.6
CdC elem. 5St	VENTO Y	Var.non Contemp.	3	-0.6	0.6
CdC elem. 6St	VENTO Y-	Var.non Contemp.	3	0.6	0.6

Descrizione inviluppo “~SL18 SLE caratt. _2”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Permanente		1	1
CdC elem. 3St	CdC n. 3	Variabile		0	0.7
CdC elem. 4St	VENTO X	Var.non Contemp.	3	-1	1
CdC elem. 5St	VENTO Y	Var.non Contemp.	3	-1	1
CdC elem. 6St	VENTO Y-	Var.non Contemp.	3	1	1

3.1.3 DESCRIZIONE INVILUPPO “~SL18 STR SLV”

Agisce su tutte le entità del modello.

Condizioni di inviluppo automatiche

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Inviluppo	~SL18 STR SLV _1	Perm.non Contemp.	1	1	1
Inviluppo	~SL18 STR SLV _2	Perm.non Contemp.	1	1	1
Inviluppo	~SL18 SLU Sism. Orizz. _1	Perm.non Contemp.	1	1	1
Inviluppo	~SL18 SLU Sism. Orizz. _2	Perm.non Contemp.	1	1	1

Descrizione degli inviluppi contenuti nell’inviluppo “~SL18 STR SLV”

Descrizione inviluppo “~SL18 STR SLV _1”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1.3
CdC elem. 2St	CdC n. 2	Permanente		0.8	1.5
CdC elem. 3St	CdC n. 3	Variabile		0	1.5
CdC elem. 4St	VENTO X	Var.non Contemp.	3	-0.9	0.9
CdC elem. 5St	VENTO Y	Var.non Contemp.	3	-0.9	0.9
CdC elem. 6St	VENTO Y-	Var.non Contemp.	3	0	0.9

Descrizione inviluppo “~SL18 STR SLV _2”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1.3
CdC elem. 2St	CdC n. 2	Permanente		0.8	1.5
CdC elem. 3St	CdC n. 3	Variabile		0	1.05
CdC elem. 4St	VENTO X	Var.non Contemp.	3	-1.5	1.5
CdC elem. 5St	VENTO Y	Var.non Contemp.	3	-1.5	1.5
CdC elem. 6St	VENTO Y-	Var.non Contemp.	3	0	1.5

Descrizione inviluppo “~SL18 SLU Sism. Orizz. _1”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Permanente		0.8	1
CdC elem. 3St	CdC n. 3	Variabile		0	0.6
CdC elem. 9Dy	Sisma SLV X Dx	Var.non Contemp.	4	-1	1

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FASCICOLO DEI CALCOLI

CdC elem. 10Dy	Sisma SLV X Sx	Var.non Contemp.	4	-1	1
CdC elem. 11Dy	Sisma SLV Y Dx	Var.non Contemp.	5	-0.3	0.3
CdC elem. 12Dy	Sisma SLV Y Sx	Var.non Contemp.	5	-0.3	0.3

Descrizione inviluppo “~SL18 SLU Sism. Orizz. _2”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Permanente		0.8	1
CdC elem. 3St	CdC n. 3	Variabile		0	0.6
CdC elem. 9Dy	Sisma SLV X Dx	Var.non Contemp.	4	-0.3	0.3
CdC elem. 10Dy	Sisma SLV X Sx	Var.non Contemp.	4	-0.3	0.3
CdC elem. 11Dy	Sisma SLV Y Dx	Var.non Contemp.	5	-1	1
CdC elem. 12Dy	Sisma SLV Y Sx	Var.non Contemp.	5	-1	1

3.1.4 DESCRIZIONE SOLLECITAZIONI DI INVILUPPO

Sollecitazioni derivate dall'Inviluppo ~SL18 GEO

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
6	Rx Min	-22.8776	-4.52042	35.90765	14.01330	-70.9207	-0.00879
6	Rx Max	22.87764	4.520421	53.37318	-14.0133	70.92067	0.008789
6	Ry Min	-3.19677	-32.9234	35.90765	102.0627	-9.90998	0.023173
6	Ry Max	3.196769	32.92344	53.37318	-102.063	9.909983	-0.02317
6	Rz Min	-21.8978	4.974299	35.90765	-15.4203	-67.8833	-0.00156
6	Rz Max	2.78e-17	1.03e-15	89.55499	-3.1e-15	1.35e-16	2.82e-21
6	Mx Min	3.196769	32.92344	53.37318	-102.063	9.909983	-0.02317
6	Mx Max	-3.19677	-32.9234	35.90765	102.0627	-9.90998	0.023173
6	My Min	-21.8978	-4.52042	35.90765	14.01330	-70.9207	-0.00879
6	My Max	22.87764	4.520421	53.37318	-14.0133	70.92067	0.008789
6	Mz Min	3.196769	-20.6368	35.90765	63.97413	9.909982	-0.02317
6	Mz Max	-3.19677	20.63682	53.37318	-63.9741	-9.90998	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
9	Rx Min	-21.8089	-4.52042	84.25522	14.01330	-67.6077	-0.00879
9	Rx Max	21.80895	4.520421	129.4376	-14.0133	67.60774	0.008789
9	Ry Min	-6.04456	-32.9234	84.25522	102.0627	-18.7381	0.023173
9	Ry Max	6.044563	32.92344	129.4376	-102.063	18.73814	-0.02317
9	Rz Min	21.66516	11.09378	84.25522	-34.3907	67.16199	0.001561
9	Rz Max	2.74e-17	1.03e-15	220.4473	-3.1e-15	1.34e-16	2.82e-21
9	Mx Min	6.044563	32.92344	129.4376	-102.063	18.73814	-0.02317
9	Mx Max	-6.04456	-32.9234	84.25522	102.0627	-18.7381	0.023173
9	My Min	-21.8089	-4.52042	84.25522	14.01330	-67.6077	-0.00879
9	My Max	21.80895	4.520421	129.4376	-14.0133	67.60774	0.008789
9	Mz Min	6.044563	-20.6368	84.25522	63.97413	18.73814	-0.02317
9	Mz Max	-6.04456	20.63682	129.4376	-63.9741	-18.7381	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
11	Rx Min	-23.1384	2.097937	61.62821	-6.50360	-71.7290	0.011453
11	Rx Max	23.13838	-2.09794	93.04550	6.503605	71.72897	-0.01145
11	Ry Min	-9.61828	-32.9234	61.62821	102.0627	-29.8167	0.023173
11	Ry Max	9.618282	32.92344	93.04550	-102.063	29.81667	-0.02317
11	Rz Min	1.74e-17	2.65e-16	61.62821	-7.4e-16	9.14e-17	1.18e-21
11	Rz Max	2.70e-17	1.03e-15	157.2410	-3.1e-15	1.33e-16	2.82e-21
11	Mx Min	9.618282	32.92344	93.04550	-102.063	29.81667	-0.02317
11	Mx Max	-9.61828	-32.9234	61.62821	102.0627	-29.8167	0.023173
11	My Min	-23.1384	2.097937	61.62821	-6.50360	-71.7290	0.011453
11	My Max	23.13838	-2.09794	93.04550	6.503605	71.72897	-0.01145
11	Mz Min	9.618282	-20.6368	61.62821	63.97413	29.81667	-0.02317
11	Mz Max	-9.61828	20.63682	93.04550	-63.9741	-29.8167	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
19	Rx Min	-22.8784	-4.26273	64.82597	13.21469	-70.9214	-0.00879
19	Rx Max	22.87838	4.262728	97.49093	-13.2147	70.92144	0.008789

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19	Ry Min	-3.19479	-26.2158	64.82597	81.25869	-9.90793	0.023173
19	Ry Max	3.194786	26.21583	97.49093	-81.2587	9.907934	-0.02317
19	Rz Min	-5.1e-19	3.70e-15	64.82597	-4.3e-15	7.37e-17	1.18e-21
19	Rz Max	4.11e-18	9.02e-15	164.4610	-1.1e-14	1.11e-16	2.82e-21
19	Mx Min	3.194786	26.21583	97.49093	-81.2587	9.907934	-0.02317
19	Mx Max	-3.19479	-26.2158	64.82597	81.25869	-9.90793	0.023173
19	My Min	-22.8784	-4.26273	64.82597	13.21469	-70.9214	-0.00879
19	My Max	22.87838	4.262728	97.49093	-13.2147	70.92144	0.008789
19	Mz Min	3.194786	-17.5521	64.82597	54.40871	9.907933	-0.02317
19	Mz Max	-3.19479	17.55214	97.49093	-54.4087	-9.90793	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
21	Rx Min	-21.8089	-4.26273	102.0543	13.21469	-67.6077	-0.00879
21	Rx Max	21.80895	4.262728	157.6510	-13.2147	67.60774	0.008789
21	Ry Min	-6.04456	-26.2158	157.6510	81.25869	-18.7381	0.023173
21	Ry Max	6.044562	26.21583	102.0543	-81.2587	18.73814	-0.02317
21	Rz Min	21.66516	8.208862	102.0543	-25.4433	67.16199	0.001561
21	Rz Max	3.76e-18	-1.2e-14	269.1514	1.07e-14	1.09e-16	2.82e-21
21	Mx Min	6.044562	26.21583	102.0543	-81.2587	18.73814	-0.02317
21	Mx Max	-6.04456	-26.2158	157.6510	81.25869	-18.7381	0.023173
21	My Min	-21.8089	-4.26273	102.0543	13.21469	-67.6077	-0.00879
21	My Max	21.80895	4.262728	157.6510	-13.2147	67.60774	0.008789
21	Mz Min	6.044562	-17.5521	102.0543	54.40871	18.73814	-0.02317
21	Mz Max	-6.04456	17.55214	157.6510	-54.4087	-18.7381	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
23	Rx Min	-23.1393	2.808457	66.51816	-8.70807	-71.7300	0.011453
23	Rx Max	23.13934	-2.80846	100.9216	8.708068	71.72996	-0.01145
23	Ry Min	-9.62027	-26.2158	66.51816	81.25869	-29.8187	0.023173
23	Ry Max	9.620265	26.21583	100.9216	-81.2587	29.81872	-0.02317
23	Rz Min	-21.3733	4.921530	66.51816	-15.2569	-66.2576	-0.00156
23	Rz Max	3.32e-18	1.13e-15	170.9286	-3.2e-15	1.08e-16	2.82e-21
23	Mx Min	9.620265	26.21583	100.9216	-81.2587	29.81872	-0.02317
23	Mx Max	-9.62027	-26.2158	66.51816	81.25869	-29.8187	0.023173
23	My Min	-23.1393	2.808457	66.51816	-8.70807	-71.7300	0.011453
23	My Max	23.13934	-2.80846	100.9216	8.708068	71.72996	-0.01145
23	Mz Min	9.620266	-17.5521	66.51816	54.40871	29.81872	-0.02317
23	Mz Max	-9.62027	17.55214	100.9216	-54.4087	-29.8187	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
31	Rx Min	-22.8784	-4.91201	64.82562	15.22722	-70.9214	-0.00879
31	Rx Max	22.87838	4.912007	97.49032	-15.2272	70.92144	0.008789
31	Ry Min	-3.19479	-20.7153	64.82562	64.21749	-9.90793	0.023173
31	Ry Max	3.194786	20.71532	97.49032	-64.2175	9.907934	-0.02317
31	Rz Min	-5.1e-19	2.82e-15	64.82562	-3.4e-15	7.37e-17	1.18e-21
31	Rz Max	4.11e-18	7.00e-15	164.4599	-9.3e-15	1.11e-16	2.82e-21
31	Mx Min	3.194786	20.71532	97.49032	-64.2175	9.907934	-0.02317
31	Mx Max	-3.19479	-20.7153	64.82562	64.21749	-9.90793	0.023173
31	My Min	-22.8784	-4.91201	64.82562	15.22722	-70.9214	-0.00879
31	My Max	22.87838	4.912007	97.49032	-15.2272	70.92144	0.008789
31	Mz Min	3.194786	-17.4871	64.82562	54.21002	9.907933	-0.02317
31	Mz Max	-3.19479	17.48711	97.49032	-54.2100	-9.90793	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
33	Rx Min	-21.8089	-4.91201	105.1009	15.22722	-67.6077	-0.00879
33	Rx Max	21.80895	4.912007	162.2959	-15.2272	67.60774	0.008789
33	Ry Min	-6.04456	-20.7153	162.2959	64.21749	-18.7381	0.023173
33	Ry Max	6.044562	20.71532	105.1009	-64.2175	18.73814	-0.02317
33	Rz Min	-21.6652	5.234049	105.1009	-16.2256	-67.1620	-0.00156
33	Rz Max	3.76e-18	-9.0e-15	277.0357	7.28e-15	1.09e-16	2.82e-21
33	Mx Min	6.044562	20.71532	105.1009	-64.2175	18.73814	-0.02317
33	Mx Max	-6.04456	-20.7153	162.2959	64.21749	-18.7381	0.023173
33	My Min	-21.8089	-4.91201	105.1009	15.22722	-67.6077	-0.00879
33	My Max	21.80895	4.912007	162.2959	-15.2272	67.60774	0.008789
33	Mz Min	6.044562	-17.4871	105.1009	54.21002	18.73814	-0.02317
33	Mz Max	-6.04456	17.48711	162.2959	-54.2100	-18.7381	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
35	Rx Min	-23.1393	4.427510	70.03406	-13.7253	-71.7300	0.011453

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35	Rx Max	23.13934	-4.42751	106.2576	13.72528	71.72996	-0.01145
35	Ry Min	-9.62027	-20.7153	70.03406	64.21749	-29.8187	0.023173
35	Ry Max	9.620265	20.71532	106.2576	-64.2175	29.81872	-0.02317
35	Rz Min	-8.4e-19	3.02e-16	70.03406	-7.9e-16	7.26e-17	1.18e-21
35	Rz Max	3.32e-18	1.08e-15	179.9671	-3.1e-15	1.08e-16	2.82e-21
35	Mx Min	9.620265	20.71532	106.2576	-64.2175	29.81872	-0.02317
35	Mx Max	-9.62027	-20.7153	70.03406	64.21749	-29.8187	0.023173
35	My Min	-23.1393	4.427510	70.03406	-13.7253	-71.7300	0.011453
35	My Max	23.13934	-4.42751	106.2576	13.72528	71.72996	-0.01145
35	Mz Min	9.620266	-17.4871	70.03406	54.21002	29.81872	-0.02317
35	Mz Max	-9.62027	17.48711	106.2576	-54.2100	-29.8187	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
43	Rx Min	-22.8784	-6.54872	97.49032	20.30104	-70.9214	-0.00879
43	Rx Max	22.87838	6.548721	64.82562	-20.3010	70.92144	0.008789
43	Ry Min	3.194786	-20.7153	64.82562	64.21749	9.907933	-0.02317
43	Ry Max	-3.19479	20.71532	97.49032	-64.2175	-9.90793	0.023173
43	Rz Min	-5.8e-17	2.82e-15	64.82562	-3.4e-15	1.40e-17	1.18e-21
43	Rz Max	-1.3e-16	7.00e-15	164.4599	-9.3e-15	-2.4e-17	2.82e-21
43	Mx Min	-3.19479	20.71532	97.49032	-64.2175	-9.90793	0.023173
43	Mx Max	3.194786	-20.7153	64.82562	64.21749	9.907933	-0.02317
43	My Min	-22.8784	-6.54872	97.49032	20.30104	-70.9214	-0.00879
43	My Max	22.87838	6.548721	64.82562	-20.3010	70.92144	0.008789
43	Mz Min	3.194786	-20.7153	64.82562	64.21749	9.907933	-0.02317
43	Mz Max	-3.19479	20.71532	97.49032	-64.2175	-9.90793	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
45	Rx Min	-21.8089	-6.54872	105.1009	20.30104	-67.6077	-0.00879
45	Rx Max	21.80895	6.548721	162.2959	-20.3010	67.60774	0.008789
45	Ry Min	6.044562	-20.7153	162.2959	64.21749	18.73814	-0.02317
45	Ry Max	-6.04456	20.71532	105.1009	-64.2175	-18.7381	0.023173
45	Rz Min	-21.6652	-5.23405	105.1009	16.22555	-67.1620	-0.00156
45	Rz Max	-5.4e-18	-9.0e-15	277.0357	7.27e-15	1.00e-16	2.82e-21
45	Mx Min	-6.04456	20.71532	105.1009	-64.2175	-18.7381	0.023173
45	Mx Max	6.044562	-20.7153	162.2959	64.21749	18.73814	-0.02317
45	My Min	-21.8089	-6.54872	105.1009	20.30104	-67.6077	-0.00879
45	My Max	21.80895	6.548721	162.2959	-20.3010	67.60774	0.008789
45	Mz Min	6.044562	-20.7153	105.1009	64.21749	18.73814	-0.02317
45	Mz Max	-6.04456	20.71532	162.2959	-64.2175	-18.7381	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
47	Rx Min	-23.1393	7.033218	106.2576	-21.8030	-71.7300	0.011453
47	Rx Max	23.13934	-7.03322	70.03406	21.80298	71.72996	-0.01145
47	Ry Min	9.620266	-20.7153	70.03406	64.21749	29.81872	-0.02317
47	Ry Max	-9.62027	20.71532	106.2576	-64.2175	-29.8187	0.023173
47	Rz Min	-3.3e-17	3.03e-16	70.03406	-7.9e-16	3.92e-17	1.18e-21
47	Rz Max	-6.6e-17	1.08e-15	179.9671	-3.2e-15	3.61e-17	2.82e-21
47	Mx Min	-9.62027	20.71532	106.2576	-64.2175	-29.8187	0.023173
47	Mx Max	9.620266	-20.7153	70.03406	64.21749	29.81872	-0.02317
47	My Min	-23.1393	7.033218	106.2576	-21.8030	-71.7300	0.011453
47	My Max	23.13934	-7.03322	70.03406	21.80298	71.72996	-0.01145
47	Mz Min	9.620266	-20.7153	70.03406	64.21749	29.81872	-0.02317
47	Mz Max	-9.62027	20.71532	106.2576	-64.2175	-29.8187	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
55	Rx Min	-22.8784	-8.86766	64.82597	27.48553	-70.9214	-0.00879
55	Rx Max	22.87838	8.867663	97.49093	-27.4855	70.92144	0.008789
55	Ry Min	3.194786	-26.2158	64.82597	81.25869	9.907933	-0.02317
55	Ry Max	-3.19479	26.21583	97.49093	-81.2587	-9.90793	0.023173
55	Rz Min	-5.1e-19	3.70e-15	64.82597	-4.3e-15	7.37e-17	1.18e-21
55	Rz Max	4.11e-18	9.03e-15	164.4610	-1.1e-14	1.11e-16	2.82e-21
55	Mx Min	-3.19479	26.21583	97.49093	-81.2587	-9.90793	0.023173
55	Mx Max	3.194786	-26.2158	64.82597	81.25869	9.907933	-0.02317
55	My Min	-22.8784	-8.86766	64.82597	27.48553	-70.9214	-0.00879
55	My Max	22.87838	8.867663	97.49093	-27.4855	70.92144	0.008789
55	Mz Min	3.194786	-26.2158	64.82597	81.25869	9.907933	-0.02317
55	Mz Max	-3.19479	26.21583	97.49093	-81.2587	-9.90793	0.023173

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N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
57	Rx Min	-21.8089	-8.86766	102.0543	27.48553	-67.6077	-0.00879
57	Rx Max	21.80895	8.867663	157.6510	-27.4855	67.60774	0.008789
57	Ry Min	6.044562	-26.2158	157.6510	81.25869	18.73814	-0.02317
57	Ry Max	-6.04456	26.21583	102.0543	-81.2587	-18.7381	0.023173
57	Rz Min	21.41471	2.808457	102.0543	-8.70807	66.38559	-0.01145
57	Rz Max	3.76e-18	-1.2e-14	269.1514	1.07e-14	1.09e-16	2.82e-21
57	Mx Min	-6.04456	26.21583	102.0543	-81.2587	-18.7381	0.023173
57	Mx Max	6.044562	-26.2158	157.6510	81.25869	18.73814	-0.02317
57	My Min	-21.8089	-8.86766	102.0543	27.48553	-67.6077	-0.00879
57	My Max	21.80895	8.867663	157.6510	-27.4855	67.60774	0.008789
57	Mz Min	6.044562	-26.2158	102.0543	81.25869	18.73814	-0.02317
57	Mz Max	-6.04456	26.21583	157.6510	-81.2587	-18.7381	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
59	Rx Min	-23.1393	10.32193	66.51816	-31.9922	-71.7300	0.011453
59	Rx Max	23.13934	-10.3219	100.9216	31.99215	71.72996	-0.01145
59	Ry Min	9.620266	-26.2158	66.51816	81.25869	29.81872	-0.02317
59	Ry Max	-9.62027	26.21583	100.9216	-81.2587	-29.8187	0.023173
59	Rz Min	-21.3733	-4.92153	66.51816	15.25689	-66.2576	-0.00156
59	Rz Max	3.32e-18	1.13e-15	170.9286	-3.2e-15	1.08e-16	2.82e-21
59	Mx Min	-9.62027	26.21583	100.9216	-81.2587	-29.8187	0.023173
59	Mx Max	9.620266	-26.2158	66.51816	81.25869	29.81872	-0.02317
59	My Min	-23.1393	10.32193	66.51816	-31.9922	-71.7300	0.011453
59	My Max	23.13934	-10.3219	100.9216	31.99215	71.72996	-0.01145
59	Mz Min	9.620266	-26.2158	66.51816	81.25869	29.81872	-0.02317
59	Mz Max	-9.62027	26.21583	100.9216	-81.2587	-29.8187	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
68	Rx Min	-22.8776	-11.5477	35.90765	35.79774	-70.9207	-0.00879
68	Rx Max	22.87764	11.54766	53.37318	-35.7977	70.92067	0.008789
68	Ry Min	3.196769	-32.9234	35.90765	102.0627	9.909982	-0.02317
68	Ry Max	-3.19677	32.92344	53.37318	-102.063	-9.90998	0.023173
68	Rz Min	-22.8776	-11.5477	35.90765	35.79774	-70.9207	-0.00879
68	Rz Max	2.78e-17	1.04e-15	89.55499	-3.1e-15	1.35e-16	2.82e-21
68	Mx Min	-3.19677	32.92344	53.37318	-102.063	-9.90998	0.023173
68	Mx Max	3.196769	-32.9234	35.90765	102.0627	9.909982	-0.02317
68	My Min	-22.8776	-11.5477	35.90765	35.79774	-70.9207	-0.00879
68	My Max	22.87764	11.54766	53.37318	-35.7977	70.92067	0.008789
68	Mz Min	3.196769	-32.9234	35.90765	102.0627	9.909982	-0.02317
68	Mz Max	-3.19677	32.92344	53.37318	-102.063	-9.90998	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
71	Rx Min	-21.8089	-11.5477	84.25522	35.79774	-67.6077	-0.00879
71	Rx Max	21.80895	11.54766	129.4376	-35.7977	67.60774	0.008789
71	Ry Min	6.044563	-32.9234	84.25522	102.0627	18.73814	-0.02317
71	Ry Max	-6.04456	32.92344	129.4376	-102.063	-18.7381	0.023173
71	Rz Min	-21.8089	4.520420	84.25522	-14.0133	-67.6077	-0.00879
71	Rz Max	2.74e-17	1.04e-15	220.4473	-3.1e-15	1.34e-16	2.82e-21
71	Mx Min	-6.04456	32.92344	129.4376	-102.063	-18.7381	0.023173
71	Mx Max	6.044563	-32.9234	84.25522	102.0627	18.73814	-0.02317
71	My Min	-21.8089	-11.5477	84.25522	35.79774	-67.6077	-0.00879
71	My Max	21.80895	11.54766	129.4376	-35.7977	67.60774	0.008789
71	Mz Min	6.044563	-32.9234	84.25522	102.0627	18.73814	-0.02317
71	Mz Max	-6.04456	32.92344	129.4376	-102.063	-18.7381	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
73	Rx Min	-23.1384	13.97014	61.62821	-43.3074	-71.7290	0.011453
73	Rx Max	23.13838	-13.9701	93.04550	43.30744	71.72897	-0.01145
73	Ry Min	9.618282	-32.9234	61.62821	102.0627	29.81667	-0.02317
73	Ry Max	-9.61828	32.92344	93.04550	-102.063	-29.8167	0.023173
73	Rz Min	1.74e-17	2.67e-16	61.62821	-7.5e-16	9.14e-17	1.18e-21
73	Rz Max	2.70e-17	1.04e-15	157.2410	-3.1e-15	1.33e-16	2.82e-21
73	Mx Min	-9.61828	32.92344	93.04550	-102.063	-29.8167	0.023173
73	Mx Max	9.618282	-32.9234	61.62821	102.0627	29.81667	-0.02317
73	My Min	-23.1384	13.97014	61.62821	-43.3074	-71.7290	0.011453
73	My Max	23.13838	-13.9701	93.04550	43.30744	71.72897	-0.01145
73	Mz Min	9.618282	-32.9234	61.62821	102.0627	29.81667	-0.02317

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73 Mz Max -9.61828 32.92344 93.04550 -102.063 -29.8167 0.023173

Sollecitazioni derivate dall'Inviluppo ~SL18 SLE caratt.

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
6	Rx Min	-0.42862	0.110551	39.85148	-0.34271	-1.32872	-0.00012
6	Rx Max	0.428620	-0.11055	55.62679	0.342707	1.328723	0.000122
6	Ry Min	-2.1e-12	-1.50075	39.85148	4.652318	-6.6e-12	-1.6e-14
6	Ry Max	2.13e-12	1.500748	55.62679	-4.65232	6.61e-12	1.59e-14
6	Rz Min	1.82e-17	3.35e-16	39.85148	-9.6e-16	9.40e-17	1.31e-21
6	Rz Max	2.06e-17	6.85e-16	62.38764	-2.0e-15	1.02e-16	1.97e-21
6	Mx Min	2.13e-12	1.500748	55.62679	-4.65232	6.61e-12	1.59e-14
6	Mx Max	-2.1e-12	-1.50075	39.85148	4.652318	-6.6e-12	-1.6e-14
6	My Min	-0.42862	0.110551	39.85148	-0.34271	-1.32872	-0.00012
6	My Max	0.428620	-0.11055	55.62679	0.342707	1.328723	0.000122
6	Mz Min	-0.42862	0.110551	39.85148	-0.34271	-1.32872	-0.00012
6	Mz Max	0.428620	-0.11055	55.62679	0.342707	1.328723	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
9	Rx Min	-0.41359	0.110551	94.45770	-0.34271	-1.28213	-0.00012
9	Rx Max	0.413590	-0.11055	135.2676	0.342707	1.282128	0.000122
9	Ry Min	-1.6e-13	-1.50075	94.45770	4.652318	-5.1e-13	-1.6e-14
9	Ry Max	1.64e-13	1.500748	135.2676	-4.65232	5.09e-13	1.59e-14
9	Rz Min	1.80e-17	3.35e-16	94.45770	-9.6e-16	9.35e-17	1.31e-21
9	Rz Max	2.04e-17	6.85e-16	152.7576	-2.0e-15	1.01e-16	1.97e-21
9	Mx Min	1.64e-13	1.500748	135.2676	-4.65232	5.09e-13	1.59e-14
9	Mx Max	-1.6e-13	-1.50075	94.45770	4.652318	-5.1e-13	-1.6e-14
9	My Min	-0.41359	0.110551	94.45770	-0.34271	-1.28213	-0.00012
9	My Max	0.413590	-0.11055	135.2676	0.342707	1.282128	0.000122
9	Mz Min	-0.41359	0.110551	94.45770	-0.34271	-1.28213	-0.00012
9	Mz Max	0.413590	-0.11055	135.2676	0.342707	1.282128	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
11	Rx Min	-0.39480	0.110551	68.72243	-0.34271	-1.22388	-0.00012
11	Rx Max	0.394801	-0.11055	97.09934	0.342707	1.223884	0.000122
11	Ry Min	2.30e-12	-1.50075	68.72243	4.652318	7.12e-12	-1.6e-14
11	Ry Max	-2.3e-12	1.500748	97.09934	-4.65232	-7.1e-12	1.59e-14
11	Rz Min	1.78e-17	3.35e-16	68.72243	-9.6e-16	9.28e-17	1.31e-21
11	Rz Max	2.01e-17	6.85e-16	109.2609	-2.0e-15	9.98e-17	1.97e-21
11	Mx Min	-2.3e-12	1.500748	97.09934	-4.65232	-7.1e-12	1.59e-14
11	Mx Max	2.30e-12	-1.50075	68.72243	4.652318	7.12e-12	-1.6e-14
11	My Min	-0.39480	0.110551	68.72243	-0.34271	-1.22388	-0.00012
11	My Max	0.394801	-0.11055	97.09934	0.342707	1.223884	0.000122
11	Mz Min	-0.39480	0.110551	68.72243	-0.34271	-1.22388	-0.00012
11	Mz Max	0.394801	-0.11055	97.09934	0.342707	1.223884	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
19	Rx Min	-0.42863	0.066366	72.20193	-0.20566	-1.32873	-0.00012
19	Rx Max	0.428631	-0.06637	101.7058	0.205661	1.328734	0.000122
19	Ry Min	-2.1e-12	-1.50075	72.20193	4.652318	-6.6e-12	-1.6e-14
19	Ry Max	2.13e-12	1.500748	101.7058	-4.65232	6.61e-12	1.59e-14
19	Rz Min	-2.4e-20	4.13e-15	72.20193	-4.9e-15	7.52e-17	1.31e-21
19	Rz Max	2.41e-18	6.28e-15	114.3503	-7.8e-15	8.27e-17	1.97e-21
19	Mx Min	2.13e-12	1.500748	101.7058	-4.65232	6.61e-12	1.59e-14
19	Mx Max	-2.1e-12	-1.50075	72.20193	4.652318	-6.6e-12	-1.6e-14
19	My Min	-0.42863	0.066366	72.20193	-0.20566	-1.32873	-0.00012
19	My Max	0.428631	-0.06637	101.7058	0.205661	1.328734	0.000122
19	Mz Min	-0.42863	0.066366	72.20193	-0.20566	-1.32873	-0.00012
19	Mz Max	0.428631	-0.06637	101.7058	0.205661	1.328734	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
21	Rx Min	-0.41359	0.066366	114.6084	-0.20566	-1.28213	-0.00012
21	Rx Max	0.413590	-0.06637	164.8248	0.205661	1.282128	0.000122
21	Ry Min	-1.6e-13	-1.50075	164.8248	4.652318	-5.1e-13	-1.6e-14
21	Ry Max	1.64e-13	1.500748	114.6084	-4.65232	5.09e-13	1.59e-14
21	Rz Min	-1.9e-19	-5.2e-15	114.6084	4.78e-15	7.47e-17	1.31e-21
21	Rz Max	2.17e-18	-8.5e-15	186.3460	7.42e-15	8.20e-17	1.97e-21
21	Mx Min	1.64e-13	1.500748	114.6084	-4.65232	5.09e-13	1.59e-14
21	Mx Max	-1.6e-13	-1.50075	164.8248	4.652318	-5.1e-13	-1.6e-14

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21	My Min	-0.41359	0.066366	114.6084	-0.20566	-1.28213	-0.00012
21	My Max	0.413590	-0.06637	164.8248	0.205661	1.282128	0.000122
21	Mz Min	-0.41359	0.066366	114.6084	-0.20566	-1.28213	-0.00012
21	Mz Max	0.413590	-0.06637	164.8248	0.205661	1.282128	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
23	Rx Min	-0.39479	0.066366	74.28668	-0.20566	-1.22387	-0.00012
23	Rx Max	0.394791	-0.06637	105.3608	0.205661	1.223873	0.000122
23	Ry Min	2.30e-12	-1.50075	74.28668	4.652318	7.12e-12	-1.6e-14
23	Ry Max	-2.3e-12	1.500748	105.3608	-4.65232	-7.1e-12	1.59e-14
23	Rz Min	-3.9e-19	4.08e-16	74.28668	-1.0e-15	7.40e-17	1.31e-21
23	Rz Max	1.86e-18	7.58e-16	118.6783	-2.1e-15	8.10e-17	1.97e-21
23	Mx Min	-2.3e-12	1.500748	105.3608	-4.65232	-7.1e-12	1.59e-14
23	Mx Max	2.30e-12	-1.50075	74.28668	4.652318	7.12e-12	-1.6e-14
23	My Min	-0.39479	0.066366	74.28668	-0.20566	-1.22387	-0.00012
23	My Max	0.394791	-0.06637	105.3608	0.205661	1.223873	0.000122
23	Mz Min	-0.39479	0.066366	74.28668	-0.20566	-1.22387	-0.00012
23	Mz Max	0.394791	-0.06637	105.3608	0.205661	1.223873	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
31	Rx Min	-0.42863	0.022110	72.20152	-0.06854	-1.32873	-0.00012
31	Rx Max	0.428631	-0.02211	101.7051	0.068541	1.328734	0.000122
31	Ry Min	-2.1e-12	-1.50075	72.20152	4.652318	-6.6e-12	-1.6e-14
31	Ry Max	2.13e-12	1.500748	101.7051	-4.65232	6.61e-12	1.59e-14
31	Rz Min	-2.4e-20	3.16e-15	72.20152	-3.9e-15	7.52e-17	1.31e-21
31	Rz Max	2.41e-18	4.86e-15	114.3495	-6.4e-15	8.27e-17	1.97e-21
31	Mx Min	2.13e-12	1.500748	101.7051	-4.65232	6.61e-12	1.59e-14
31	Mx Max	-2.1e-12	-1.50075	72.20152	4.652318	-6.6e-12	-1.6e-14
31	My Min	-0.42863	0.022110	72.20152	-0.06854	-1.32873	-0.00012
31	My Max	0.428631	-0.02211	101.7051	0.068541	1.328734	0.000122
31	Mz Min	-0.42863	0.022110	72.20152	-0.06854	-1.32873	-0.00012
31	Mz Max	0.428631	-0.02211	101.7051	0.068541	1.328734	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
33	Rx Min	-0.41359	0.022110	118.0159	-0.06854	-1.28213	-0.00012
33	Rx Max	0.413590	-0.02211	169.6759	0.068541	1.282128	0.000122
33	Ry Min	-1.6e-13	-1.50075	169.6759	4.652318	-5.1e-13	-1.6e-14
33	Ry Max	1.64e-13	1.500748	118.0159	-4.65232	5.09e-13	1.59e-14
33	Rz Min	-1.9e-19	-3.9e-15	118.0159	3.36e-15	7.47e-17	1.31e-21
33	Rz Max	2.17e-18	-6.2e-15	191.8159	5.07e-15	8.20e-17	1.97e-21
33	Mx Min	1.64e-13	1.500748	118.0159	-4.65232	5.09e-13	1.59e-14
33	Mx Max	-1.6e-13	-1.50075	169.6759	4.652318	-5.1e-13	-1.6e-14
33	My Min	-0.41359	0.022110	118.0159	-0.06854	-1.28213	-0.00012
33	My Max	0.413590	-0.02211	169.6759	0.068541	1.282128	0.000122
33	Mz Min	-0.41359	0.022110	118.0159	-0.06854	-1.28213	-0.00012
33	Mz Max	0.413590	-0.02211	169.6759	0.068541	1.282128	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
35	Rx Min	-0.39479	0.022110	78.21355	-0.06854	-1.22387	-0.00012
35	Rx Max	0.394791	-0.02211	110.9316	0.068541	1.223873	0.000122
35	Ry Min	2.30e-12	-1.50075	78.21355	4.652318	7.12e-12	-1.6e-14
35	Ry Max	-2.3e-12	1.500748	110.9316	-4.65232	-7.1e-12	1.59e-14
35	Rz Min	-3.9e-19	3.72e-16	78.21355	-1.0e-15	7.40e-17	1.31e-21
35	Rz Max	1.86e-18	7.23e-16	124.9536	-2.1e-15	8.10e-17	1.97e-21
35	Mx Min	-2.3e-12	1.500748	110.9316	-4.65232	-7.1e-12	1.59e-14
35	Mx Max	2.30e-12	-1.50075	78.21355	4.652318	7.12e-12	-1.6e-14
35	My Min	-0.39479	0.022110	78.21355	-0.06854	-1.22387	-0.00012
35	My Max	0.394791	-0.02211	110.9316	0.068541	1.223873	0.000122
35	Mz Min	-0.39479	0.022110	78.21355	-0.06854	-1.22387	-0.00012
35	Mz Max	0.394791	-0.02211	110.9316	0.068541	1.223873	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
43	Rx Min	-0.42863	-0.02211	101.7051	0.068541	-1.32873	-0.00012
43	Rx Max	0.428631	0.022110	72.20152	-0.06854	1.328734	0.000122
43	Ry Min	-2.1e-12	-1.50075	72.20152	4.652318	-6.6e-12	-1.6e-14
43	Ry Max	2.13e-12	1.500748	101.7051	-4.65232	6.61e-12	1.59e-14
43	Rz Min	-6.3e-17	3.16e-15	72.20152	-3.9e-15	9.70e-18	1.31e-21
43	Rz Max	-8.9e-17	4.86e-15	114.3495	-6.4e-15	-1.2e-17	1.97e-21
43	Mx Min	2.13e-12	1.500748	101.7051	-4.65232	6.61e-12	1.59e-14

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43	Mx Max	-2.1e-12	-1.50075	72.20152	4.652318	-6.6e-12	-1.6e-14
43	My Min	-0.42863	-0.02211	101.7051	0.068541	-1.32873	-0.00012
43	My Max	0.428631	0.022110	72.20152	-0.06854	1.328734	0.000122
43	Mz Min	-0.42863	-0.02211	72.20152	0.068541	-1.32873	-0.00012
43	Mz Max	0.428631	0.022110	101.7051	-0.06854	1.328734	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
45	Rx Min	-0.41359	-0.02211	118.0159	0.068541	-1.28213	-0.00012
45	Rx Max	0.413590	0.022110	169.6759	-0.06854	1.282128	0.000122
45	Ry Min	-1.6e-13	-1.50075	169.6759	4.652318	-5.1e-13	-1.6e-14
45	Ry Max	1.64e-13	1.500748	118.0159	-4.65232	5.09e-13	1.59e-14
45	Rz Min	-7.2e-18	-3.9e-15	118.0159	3.36e-15	6.74e-17	1.31e-21
45	Rz Max	-4.9e-18	-6.2e-15	191.8159	5.07e-15	7.47e-17	1.97e-21
45	Mx Min	1.64e-13	1.500748	118.0159	-4.65232	5.09e-13	1.59e-14
45	Mx Max	-1.6e-13	-1.50075	169.6759	4.652318	-5.1e-13	-1.6e-14
45	My Min	-0.41359	-0.02211	118.0159	0.068541	-1.28213	-0.00012
45	My Max	0.413590	0.022110	169.6759	-0.06854	1.282128	0.000122
45	Mz Min	-0.41359	-0.02211	118.0159	0.068541	-1.28213	-0.00012
45	Mz Max	0.413590	0.022110	169.6759	-0.06854	1.282128	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
47	Rx Min	-0.39479	-0.02211	110.9316	0.068541	-1.22387	-0.00012
47	Rx Max	0.394791	0.022110	78.21355	-0.06854	1.223873	0.000122
47	Ry Min	2.30e-12	-1.50075	78.21355	4.652318	7.12e-12	-1.6e-14
47	Ry Max	-2.3e-12	1.500748	110.9316	-4.65232	-7.1e-12	1.59e-14
47	Rz Min	-3.6e-17	3.73e-16	78.21355	-1.0e-15	3.77e-17	1.31e-21
47	Rz Max	-4.7e-17	7.23e-16	124.9536	-2.1e-15	3.01e-17	1.97e-21
47	Mx Min	-2.3e-12	1.500748	110.9316	-4.65232	-7.1e-12	1.59e-14
47	Mx Max	2.30e-12	-1.50075	78.21355	4.652318	7.12e-12	-1.6e-14
47	My Min	-0.39479	-0.02211	110.9316	0.068541	-1.22387	-0.00012
47	My Max	0.394791	0.022110	78.21355	-0.06854	1.223873	0.000122
47	Mz Min	-0.39479	-0.02211	78.21355	0.068541	-1.22387	-0.00012
47	Mz Max	0.394791	0.022110	110.9316	-0.06854	1.223873	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
55	Rx Min	-0.42863	-0.06637	72.20193	0.205661	-1.32873	-0.00012
55	Rx Max	0.428631	0.066366	101.7058	-0.20566	1.328734	0.000122
55	Ry Min	-2.1e-12	-1.50075	72.20193	4.652318	-6.6e-12	-1.6e-14
55	Ry Max	2.13e-12	1.500748	101.7058	-4.65232	6.61e-12	1.59e-14
55	Rz Min	-2.4e-20	4.13e-15	72.20193	-4.9e-15	7.52e-17	1.31e-21
55	Rz Max	2.41e-18	6.28e-15	114.3503	-7.8e-15	8.27e-17	1.97e-21
55	Mx Min	2.13e-12	1.500748	101.7058	-4.65232	6.61e-12	1.59e-14
55	Mx Max	-2.1e-12	-1.50075	72.20193	4.652318	-6.6e-12	-1.6e-14
55	My Min	-0.42863	-0.06637	72.20193	0.205661	-1.32873	-0.00012
55	My Max	0.428631	0.066366	101.7058	-0.20566	1.328734	0.000122
55	Mz Min	-0.42863	-0.06637	72.20193	0.205661	-1.32873	-0.00012
55	Mz Max	0.428631	0.066366	101.7058	-0.20566	1.328734	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
57	Rx Min	-0.41359	-0.06637	114.6084	0.205661	-1.28213	-0.00012
57	Rx Max	0.413590	0.066366	164.8248	-0.20566	1.282128	0.000122
57	Ry Min	-1.6e-13	-1.50075	164.8248	4.652318	-5.1e-13	-1.6e-14
57	Ry Max	1.64e-13	1.500748	114.6084	-4.65232	5.09e-13	1.59e-14
57	Rz Min	-1.9e-19	-5.2e-15	114.6084	4.78e-15	7.47e-17	1.31e-21
57	Rz Max	2.17e-18	-8.5e-15	186.3460	7.41e-15	8.20e-17	1.97e-21
57	Mx Min	1.64e-13	1.500748	114.6084	-4.65232	5.09e-13	1.59e-14
57	Mx Max	-1.6e-13	-1.50075	164.8248	4.652318	-5.1e-13	-1.6e-14
57	My Min	-0.41359	-0.06637	114.6084	0.205661	-1.28213	-0.00012
57	My Max	0.413590	0.066366	164.8248	-0.20566	1.282128	0.000122
57	Mz Min	-0.41359	-0.06637	114.6084	0.205661	-1.28213	-0.00012
57	Mz Max	0.413590	0.066366	164.8248	-0.20566	1.282128	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
59	Rx Min	-0.39479	-0.06637	74.28668	0.205661	-1.22387	-0.00012
59	Rx Max	0.394791	0.066366	105.3608	-0.20566	1.223873	0.000122
59	Ry Min	2.30e-12	-1.50075	74.28668	4.652318	7.12e-12	-1.6e-14
59	Ry Max	-2.3e-12	1.500748	105.3608	-4.65232	-7.1e-12	1.59e-14
59	Rz Min	-3.9e-19	4.10e-16	74.28668	-1.0e-15	7.40e-17	1.31e-21
59	Rz Max	1.86e-18	7.61e-16	118.6783	-2.1e-15	8.10e-17	1.97e-21

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59	Mx Min	-2.3e-12	1.500748	105.3608	-4.65232	-7.1e-12	1.59e-14
59	Mx Max	2.30e-12	-1.50075	74.28668	4.652318	7.12e-12	-1.6e-14
59	My Min	-0.39479	-0.06637	74.28668	0.205661	-1.22387	-0.00012
59	My Max	0.394791	0.066366	105.3608	-0.20566	1.223873	0.000122
59	Mz Min	-0.39479	-0.06637	74.28668	0.205661	-1.22387	-0.00012
59	Mz Max	0.394791	0.066366	105.3608	-0.20566	1.223873	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
68	Rx Min	-0.42862	-0.11055	39.85148	0.342707	-1.32872	-0.00012
68	Rx Max	0.428620	0.110551	55.62679	-0.34271	1.328723	0.000122
68	Ry Min	-2.1e-12	-1.50075	39.85148	4.652318	-6.6e-12	-1.6e-14
68	Ry Max	2.13e-12	1.500748	55.62679	-4.65232	6.61e-12	1.59e-14
68	Rz Min	1.82e-17	3.37e-16	39.85148	-9.7e-16	9.40e-17	1.31e-21
68	Rz Max	2.06e-17	6.88e-16	62.38764	-2.1e-15	1.02e-16	1.97e-21
68	Mx Min	2.13e-12	1.500748	55.62679	-4.65232	6.61e-12	1.59e-14
68	Mx Max	-2.1e-12	-1.50075	39.85148	4.652318	-6.6e-12	-1.6e-14
68	My Min	-0.42862	-0.11055	39.85148	0.342707	-1.32872	-0.00012
68	My Max	0.428620	0.110551	55.62679	-0.34271	1.328723	0.000122
68	Mz Min	-0.42862	-0.11055	39.85148	0.342707	-1.32872	-0.00012
68	Mz Max	0.428620	0.110551	55.62679	-0.34271	1.328723	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
71	Rx Min	-0.41359	-0.11055	94.45770	0.342707	-1.28213	-0.00012
71	Rx Max	0.413590	0.110551	135.2676	-0.34271	1.282128	0.000122
71	Ry Min	-1.6e-13	-1.50075	94.45770	4.652318	-5.1e-13	-1.6e-14
71	Ry Max	1.64e-13	1.500748	135.2676	-4.65232	5.09e-13	1.59e-14
71	Rz Min	1.80e-17	3.37e-16	94.45770	-9.7e-16	9.35e-17	1.31e-21
71	Rz Max	2.04e-17	6.88e-16	152.7576	-2.1e-15	1.01e-16	1.97e-21
71	Mx Min	1.64e-13	1.500748	135.2676	-4.65232	5.09e-13	1.59e-14
71	Mx Max	-1.6e-13	-1.50075	94.45770	4.652318	-5.1e-13	-1.6e-14
71	My Min	-0.41359	-0.11055	94.45770	0.342707	-1.28213	-0.00012
71	My Max	0.413590	0.110551	135.2676	-0.34271	1.282128	0.000122
71	Mz Min	-0.41359	-0.11055	94.45770	0.342707	-1.28213	-0.00012
71	Mz Max	0.413590	0.110551	135.2676	-0.34271	1.282128	0.000122

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
73	Rx Min	-0.39480	-0.11055	68.72243	0.342707	-1.22388	-0.00012
73	Rx Max	0.394801	0.110551	97.09934	-0.34271	1.223884	0.000122
73	Ry Min	2.30e-12	-1.50075	68.72243	4.652318	7.12e-12	-1.6e-14
73	Ry Max	-2.3e-12	1.500748	97.09934	-4.65232	-7.1e-12	1.59e-14
73	Rz Min	1.78e-17	3.37e-16	68.72243	-9.7e-16	9.28e-17	1.31e-21
73	Rz Max	2.01e-17	6.88e-16	109.2609	-2.1e-15	9.98e-17	1.97e-21
73	Mx Min	-2.3e-12	1.500748	97.09934	-4.65232	-7.1e-12	1.59e-14
73	Mx Max	2.30e-12	-1.50075	68.72243	4.652318	7.12e-12	-1.6e-14
73	My Min	-0.39480	-0.11055	68.72243	0.342707	-1.22388	-0.00012
73	My Max	0.394801	0.110551	97.09934	-0.34271	1.223884	0.000122
73	Mz Min	-0.39480	-0.11055	68.72243	0.342707	-1.22388	-0.00012
73	Mz Max	0.394801	0.110551	97.09934	-0.34271	1.223884	0.000122

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N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
6	Rx Min	-22.8776	-4.52042	35.90765	14.01330	-70.9207	-0.00879
6	Rx Max	22.87764	4.520421	53.37318	-14.0133	70.92067	0.008789
6	Ry Min	-3.19677	-32.9234	35.90765	102.0627	-9.90998	0.023173
6	Ry Max	3.196769	32.92344	53.37318	-102.063	9.909983	-0.02317
6	Rz Min	-21.8978	4.974299	35.90765	-15.4203	-67.8833	-0.00156
6	Rz Max	2.78e-17	1.03e-15	89.55499	-3.1e-15	1.35e-16	2.82e-21
6	Mx Min	3.196769	32.92344	53.37318	-102.063	9.909983	-0.02317
6	Mx Max	-3.19677	-32.9234	35.90765	102.0627	-9.90998	0.023173
6	My Min	-22.8776	-4.52042	35.90765	14.01330	-70.9207	-0.00879
6	My Max	22.87764	4.520421	53.37318	-14.0133	70.92067	0.008789
6	Mz Min	3.196769	-20.6368	35.90765	63.97413	9.909982	-0.02317
6	Mz Max	-3.19677	20.63682	53.37318	-63.9741	-9.90998	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
9	Rx Min	-21.8089	-4.52042	84.25522	14.01330	-67.6077	-0.00879
9	Rx Max	21.80895	4.520421	129.4376	-14.0133	67.60774	0.008789
9	Ry Min	-6.04456	-32.9234	84.25522	102.0627	-18.7381	0.023173

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9	Ry Max	6.044563	32.92344	129.4376	-102.063	18.73814	-0.02317
9	Rz Min	21.66516	11.09378	84.25522	-34.3907	67.16199	0.001561
9	Rz Max	2.74e-17	1.03e-15	220.4473	-3.1e-15	1.34e-16	2.82e-21
9	Mx Min	6.044563	32.92344	129.4376	-102.063	18.73814	-0.02317
9	Mx Max	-6.04456	-32.9234	84.25522	102.0627	-18.7381	0.023173
9	My Min	-21.8089	-4.52042	84.25522	14.01330	-67.6077	-0.00879
9	My Max	21.80895	4.520421	129.4376	-14.0133	67.60774	0.008789
9	Mz Min	6.044563	-20.6368	84.25522	63.97413	18.73814	-0.02317
9	Mz Max	-6.04456	20.63682	129.4376	-63.9741	-18.7381	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
11	Rx Min	-23.1384	2.097937	61.62821	-6.50360	-71.7290	0.011453
11	Rx Max	23.13838	-2.09794	93.04550	6.503605	71.72897	-0.01145
11	Ry Min	-9.61828	-32.9234	61.62821	102.0627	-29.8167	0.023173
11	Ry Max	9.618282	32.92344	93.04550	-102.063	29.81667	-0.02317
11	Rz Min	1.74e-17	2.65e-16	61.62821	-7.4e-16	9.14e-17	1.18e-21
11	Rz Max	2.70e-17	1.03e-15	157.2410	-3.1e-15	1.33e-16	2.82e-21
11	Mx Min	9.618282	32.92344	93.04550	-102.063	29.81667	-0.02317
11	Mx Max	-9.61828	-32.9234	61.62821	102.0627	-29.8167	0.023173
11	My Min	-23.1384	2.097937	61.62821	-6.50360	-71.7290	0.011453
11	My Max	23.13838	-2.09794	93.04550	6.503605	71.72897	-0.01145
11	Mz Min	9.618282	-20.6368	61.62821	63.97413	29.81667	-0.02317
11	Mz Max	-9.61828	20.63682	93.04550	-63.9741	-29.8167	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
19	Rx Min	-22.8784	-4.26273	64.82597	13.21469	-70.9214	-0.00879
19	Rx Max	22.87838	4.262728	97.49093	-13.2147	70.92144	0.008789
19	Ry Min	-3.19479	-26.2158	64.82597	81.25869	-9.90793	0.023173
19	Ry Max	3.194786	26.21583	97.49093	-81.2587	9.907934	-0.02317
19	Rz Min	-5.1e-19	3.70e-15	64.82597	-4.3e-15	7.37e-17	1.18e-21
19	Rz Max	4.11e-18	9.02e-15	164.4610	-1.1e-14	1.11e-16	2.82e-21
19	Mx Min	3.194786	26.21583	97.49093	-81.2587	9.907934	-0.02317
19	Mx Max	-3.19479	-26.2158	64.82597	81.25869	-9.90793	0.023173
19	My Min	-22.8784	-4.26273	64.82597	13.21469	-70.9214	-0.00879
19	My Max	22.87838	4.262728	97.49093	-13.2147	70.92144	0.008789
19	Mz Min	3.194786	-17.5521	64.82597	54.40871	9.907933	-0.02317
19	Mz Max	-3.19479	17.55214	97.49093	-54.4087	-9.90793	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
21	Rx Min	-21.8089	-4.26273	102.0543	13.21469	-67.6077	-0.00879
21	Rx Max	21.80895	4.262728	157.6510	-13.2147	67.60774	0.008789
21	Ry Min	-6.04456	-26.2158	157.6510	81.25869	-18.7381	0.023173
21	Ry Max	6.044562	26.21583	102.0543	-81.2587	18.73814	-0.02317
21	Rz Min	21.66516	8.208862	102.0543	-25.4433	67.16199	0.001561
21	Rz Max	3.76e-18	-1.2e-14	269.1514	1.07e-14	1.09e-16	2.82e-21
21	Mx Min	6.044562	26.21583	102.0543	-81.2587	18.73814	-0.02317
21	Mx Max	-6.04456	-26.2158	157.6510	81.25869	-18.7381	0.023173
21	My Min	-21.8089	-4.26273	102.0543	13.21469	-67.6077	-0.00879
21	My Max	21.80895	4.262728	157.6510	-13.2147	67.60774	0.008789
21	Mz Min	6.044562	-17.5521	102.0543	54.40871	18.73814	-0.02317
21	Mz Max	-6.04456	17.55214	157.6510	-54.4087	-18.7381	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
23	Rx Min	-23.1393	2.808457	66.51816	-8.70807	-71.7300	0.011453
23	Rx Max	23.13934	-2.80846	100.9216	8.708068	71.72996	-0.01145
23	Ry Min	-9.62027	-26.2158	66.51816	81.25869	-29.8187	0.023173
23	Ry Max	9.620265	26.21583	100.9216	-81.2587	29.81872	-0.02317
23	Rz Min	-21.3733	4.921530	66.51816	-15.2569	-66.2576	-0.00156
23	Rz Max	3.32e-18	1.13e-15	170.9286	-3.2e-15	1.08e-16	2.82e-21
23	Mx Min	9.620265	26.21583	100.9216	-81.2587	29.81872	-0.02317
23	Mx Max	-9.62027	-26.2158	66.51816	81.25869	-29.8187	0.023173
23	My Min	-23.1393	2.808457	66.51816	-8.70807	-71.7300	0.011453
23	My Max	23.13934	-2.80846	100.9216	8.708068	71.72996	-0.01145
23	Mz Min	9.620266	-17.5521	66.51816	54.40871	29.81872	-0.02317
23	Mz Max	-9.62027	17.55214	100.9216	-54.4087	-29.8187	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
31	Rx Min	-22.8784	-4.91201	64.82562	15.22722	-70.9214	-0.00879
31	Rx Max	22.87838	4.912007	97.49032	-15.2272	70.92144	0.008789

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31	Ry Min	-3.19479	-20.7153	64.82562	64.21749	-9.90793	0.023173
31	Ry Max	3.194786	20.71532	97.49032	-64.2175	9.907934	-0.02317
31	Rz Min	-5.1e-19	2.82e-15	64.82562	-3.4e-15	7.37e-17	1.18e-21
31	Rz Max	4.11e-18	7.00e-15	164.4599	-9.3e-15	1.11e-16	2.82e-21
31	Mx Min	3.194786	20.71532	97.49032	-64.2175	9.907934	-0.02317
31	Mx Max	-3.19479	-20.7153	64.82562	64.21749	-9.90793	0.023173
31	My Min	-22.8784	-4.91201	64.82562	15.22722	-70.9214	-0.00879
31	My Max	22.87838	4.912007	97.49032	-15.2272	70.92144	0.008789
31	Mz Min	3.194786	-17.4871	64.82562	54.21002	9.907933	-0.02317
31	Mz Max	-3.19479	17.48711	97.49032	-54.2100	-9.90793	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
33	Rx Min	-21.8089	-4.91201	105.1009	15.22722	-67.6077	-0.00879
33	Rx Max	21.80895	4.912007	162.2959	-15.2272	67.60774	0.008789
33	Ry Min	-6.04456	-20.7153	162.2959	64.21749	-18.7381	0.023173
33	Ry Max	6.044562	20.71532	105.1009	-64.2175	18.73814	-0.02317
33	Rz Min	-21.6652	5.234049	105.1009	-16.2256	-67.1620	-0.00156
33	Rz Max	3.76e-18	-9.0e-15	277.0357	7.28e-15	1.09e-16	2.82e-21
33	Mx Min	6.044562	20.71532	105.1009	-64.2175	18.73814	-0.02317
33	Mx Max	-6.04456	-20.7153	162.2959	64.21749	-18.7381	0.023173
33	My Min	-21.8089	-4.91201	105.1009	15.22722	-67.6077	-0.00879
33	My Max	21.80895	4.912007	162.2959	-15.2272	67.60774	0.008789
33	Mz Min	6.044562	-17.4871	105.1009	54.21002	18.73814	-0.02317
33	Mz Max	-6.04456	17.48711	162.2959	-54.2100	-18.7381	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
35	Rx Min	-23.1393	4.427510	70.03406	-13.7253	-71.7300	0.011453
35	Rx Max	23.13934	-4.42751	106.2576	13.72528	71.72996	-0.01145
35	Ry Min	-9.62027	-20.7153	70.03406	64.21749	-29.8187	0.023173
35	Ry Max	9.620265	20.71532	106.2576	-64.2175	29.81872	-0.02317
35	Rz Min	-8.4e-19	3.02e-16	70.03406	-7.9e-16	7.26e-17	1.18e-21
35	Rz Max	3.32e-18	1.08e-15	179.9671	-3.1e-15	1.08e-16	2.82e-21
35	Mx Min	9.620265	20.71532	106.2576	-64.2175	29.81872	-0.02317
35	Mx Max	-9.62027	-20.7153	70.03406	64.21749	-29.8187	0.023173
35	My Min	-23.1393	4.427510	70.03406	-13.7253	-71.7300	0.011453
35	My Max	23.13934	-4.42751	106.2576	13.72528	71.72996	-0.01145
35	Mz Min	9.620266	-17.4871	70.03406	54.21002	29.81872	-0.02317
35	Mz Max	-9.62027	17.48711	106.2576	-54.2100	-29.8187	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
43	Rx Min	-22.8784	-6.54872	97.49032	20.30104	-70.9214	-0.00879
43	Rx Max	22.87838	6.548721	64.82562	-20.3010	70.92144	0.008789
43	Ry Min	3.194786	-20.7153	64.82562	64.21749	9.907933	-0.02317
43	Ry Max	-3.19479	20.71532	97.49032	-64.2175	-9.90793	0.023173
43	Rz Min	-5.8e-17	2.82e-15	64.82562	-3.4e-15	1.40e-17	1.18e-21
43	Rz Max	-1.3e-16	7.00e-15	164.4599	-9.3e-15	-2.4e-17	2.82e-21
43	Mx Min	-3.19479	20.71532	97.49032	-64.2175	-9.90793	0.023173
43	Mx Max	3.194786	-20.7153	64.82562	64.21749	9.907933	-0.02317
43	My Min	-22.8784	-6.54872	97.49032	20.30104	-70.9214	-0.00879
43	My Max	22.87838	6.548721	64.82562	-20.3010	70.92144	0.008789
43	Mz Min	3.194786	-20.7153	64.82562	64.21749	9.907933	-0.02317
43	Mz Max	-3.19479	20.71532	97.49032	-64.2175	-9.90793	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
45	Rx Min	-21.8089	-6.54872	105.1009	20.30104	-67.6077	-0.00879
45	Rx Max	21.80895	6.548721	162.2959	-20.3010	67.60774	0.008789
45	Ry Min	6.044562	-20.7153	162.2959	64.21749	18.73814	-0.02317
45	Ry Max	-6.04456	20.71532	105.1009	-64.2175	-18.7381	0.023173
45	Rz Min	-21.6652	-5.23405	105.1009	16.22555	-67.1620	-0.00156
45	Rz Max	-5.4e-18	-9.0e-15	277.0357	7.27e-15	1.00e-16	2.82e-21
45	Mx Min	-6.04456	20.71532	105.1009	-64.2175	-18.7381	0.023173
45	Mx Max	6.044562	-20.7153	162.2959	64.21749	18.73814	-0.02317
45	My Min	-21.8089	-6.54872	105.1009	20.30104	-67.6077	-0.00879
45	My Max	21.80895	6.548721	162.2959	-20.3010	67.60774	0.008789
45	Mz Min	6.044562	-20.7153	105.1009	64.21749	18.73814	-0.02317
45	Mz Max	-6.04456	20.71532	162.2959	-64.2175	-18.7381	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
47	Rx Min	-23.1393	7.033218	106.2576	-21.8030	-71.7300	0.011453

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47	Rx Max	23.13934	-7.03322	70.03406	21.80298	71.72996	-0.01145
47	Ry Min	9.620266	-20.7153	70.03406	64.21749	29.81872	-0.02317
47	Ry Max	-9.62027	20.71532	106.2576	-64.2175	-29.8187	0.023173
47	Rz Min	-3.3e-17	3.03e-16	70.03406	-7.9e-16	3.92e-17	1.18e-21
47	Rz Max	-6.6e-17	1.08e-15	179.9671	-3.2e-15	3.61e-17	2.82e-21
47	Mx Min	-9.62027	20.71532	106.2576	-64.2175	-29.8187	0.023173
47	Mx Max	9.620266	-20.7153	70.03406	64.21749	29.81872	-0.02317
47	My Min	-23.1393	7.033218	106.2576	-21.8030	-71.7300	0.011453
47	My Max	23.13934	-7.03322	70.03406	21.80298	71.72996	-0.01145
47	Mz Min	9.620266	-20.7153	70.03406	64.21749	29.81872	-0.02317
47	Mz Max	-9.62027	20.71532	106.2576	-64.2175	-29.8187	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
55	Rx Min	-22.8784	-8.86766	64.82597	27.48553	-70.9214	-0.00879
55	Rx Max	22.87838	8.867663	97.49093	-27.4855	70.92144	0.008789
55	Ry Min	3.194786	-26.2158	64.82597	81.25869	9.907933	-0.02317
55	Ry Max	-3.19479	26.21583	97.49093	-81.2587	-9.90793	0.023173
55	Rz Min	-5.1e-19	3.70e-15	64.82597	-4.3e-15	7.37e-17	1.18e-21
55	Rz Max	4.11e-18	9.03e-15	164.4610	-1.1e-14	1.11e-16	2.82e-21
55	Mx Min	-3.19479	26.21583	97.49093	-81.2587	-9.90793	0.023173
55	Mx Max	3.194786	-26.2158	64.82597	81.25869	9.907933	-0.02317
55	My Min	-22.8784	-8.86766	64.82597	27.48553	-70.9214	-0.00879
55	My Max	22.87838	8.867663	97.49093	-27.4855	70.92144	0.008789
55	Mz Min	3.194786	-26.2158	64.82597	81.25869	9.907933	-0.02317
55	Mz Max	-3.19479	26.21583	97.49093	-81.2587	-9.90793	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
57	Rx Min	-21.8089	-8.86766	102.0543	27.48553	-67.6077	-0.00879
57	Rx Max	21.80895	8.867663	157.6510	-27.4855	67.60774	0.008789
57	Ry Min	6.044562	-26.2158	157.6510	81.25869	18.73814	-0.02317
57	Ry Max	-6.04456	26.21583	102.0543	-81.2587	-18.7381	0.023173
57	Rz Min	21.41471	2.808457	102.0543	-8.70807	66.38559	-0.01145
57	Rz Max	3.76e-18	-1.2e-14	269.1514	1.07e-14	1.09e-16	2.82e-21
57	Mx Min	-6.04456	26.21583	102.0543	-81.2587	-18.7381	0.023173
57	Mx Max	6.044562	-26.2158	157.6510	81.25869	18.73814	-0.02317
57	My Min	-21.8089	-8.86766	102.0543	27.48553	-67.6077	-0.00879
57	My Max	21.80895	8.867663	157.6510	-27.4855	67.60774	0.008789
57	Mz Min	6.044562	-26.2158	102.0543	81.25869	18.73814	-0.02317
57	Mz Max	-6.04456	26.21583	157.6510	-81.2587	-18.7381	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
59	Rx Min	-23.1393	10.32193	66.51816	-31.9922	-71.7300	0.011453
59	Rx Max	23.13934	-10.3219	100.9216	31.99215	71.72996	-0.01145
59	Ry Min	9.620266	-26.2158	66.51816	81.25869	29.81872	-0.02317
59	Ry Max	-9.62027	26.21583	100.9216	-81.2587	-29.8187	0.023173
59	Rz Min	-21.3733	-4.92153	66.51816	15.25689	-66.2576	-0.00156
59	Rz Max	3.32e-18	1.13e-15	170.9286	-3.2e-15	1.08e-16	2.82e-21
59	Mx Min	-9.62027	26.21583	100.9216	-81.2587	-29.8187	0.023173
59	Mx Max	9.620266	-26.2158	66.51816	81.25869	29.81872	-0.02317
59	My Min	-23.1393	10.32193	66.51816	-31.9922	-71.7300	0.011453
59	My Max	23.13934	-10.3219	100.9216	31.99215	71.72996	-0.01145
59	Mz Min	9.620266	-26.2158	66.51816	81.25869	29.81872	-0.02317
59	Mz Max	-9.62027	26.21583	100.9216	-81.2587	-29.8187	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
68	Rx Min	-22.8776	-11.5477	35.90765	35.79774	-70.9207	-0.00879
68	Rx Max	22.87764	11.54766	53.37318	-35.7977	70.92067	0.008789
68	Ry Min	3.196769	-32.9234	35.90765	102.0627	9.909982	-0.02317
68	Ry Max	-3.19677	32.92344	53.37318	-102.063	-9.90998	0.023173
68	Rz Min	-22.8776	-11.5477	35.90765	35.79774	-70.9207	-0.00879
68	Rz Max	2.78e-17	1.04e-15	89.55499	-3.1e-15	1.35e-16	2.82e-21
68	Mx Min	-3.19677	32.92344	53.37318	-102.063	-9.90998	0.023173
68	Mx Max	3.196769	-32.9234	35.90765	102.0627	9.909982	-0.02317
68	My Min	-22.8776	-11.5477	35.90765	35.79774	-70.9207	-0.00879
68	My Max	22.87764	11.54766	53.37318	-35.7977	70.92067	0.008789
68	Mz Min	3.196769	-32.9234	35.90765	102.0627	9.909982	-0.02317
68	Mz Max	-3.19677	32.92344	53.37318	-102.063	-9.90998	0.023173

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N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
71	Rx Min	-21.8089	-11.5477	84.25522	35.79774	-67.6077	-0.00879
71	Rx Max	21.80895	11.54766	129.4376	-35.7977	67.60774	0.008789
71	Ry Min	6.044563	-32.9234	84.25522	102.0627	18.73814	-0.02317
71	Ry Max	-6.04456	32.92344	129.4376	-102.063	-18.7381	0.023173
71	Rz Min	-21.8089	4.520420	84.25522	-14.0133	-67.6077	-0.00879
71	Rz Max	2.74e-17	1.04e-15	220.4473	-3.1e-15	1.34e-16	2.82e-21
71	Mx Min	-6.04456	32.92344	129.4376	-102.063	-18.7381	0.023173
71	Mx Max	6.044563	-32.9234	84.25522	102.0627	18.73814	-0.02317
71	My Min	-21.8089	-11.5477	84.25522	35.79774	-67.6077	-0.00879
71	My Max	21.80895	11.54766	129.4376	-35.7977	67.60774	0.008789
71	Mz Min	6.044563	-32.9234	84.25522	102.0627	18.73814	-0.02317
71	Mz Max	-6.04456	32.92344	129.4376	-102.063	-18.7381	0.023173

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
73	Rx Min	-23.1384	13.97014	61.62821	-43.3074	-71.7290	0.011453
73	Rx Max	23.13838	-13.9701	93.04550	43.30744	71.72897	-0.01145
73	Ry Min	9.618282	-32.9234	61.62821	102.0627	29.81667	-0.02317
73	Ry Max	-9.61828	32.92344	93.04550	-102.063	-29.8167	0.023173
73	Rz Min	1.74e-17	2.67e-16	61.62821	-7.5e-16	9.14e-17	1.18e-21
73	Rz Max	2.70e-17	1.04e-15	157.2410	-3.1e-15	1.33e-16	2.82e-21
73	Mx Min	-9.61828	32.92344	93.04550	-102.063	-29.8167	0.023173
73	Mx Max	9.618282	-32.9234	61.62821	102.0627	29.81667	-0.02317
73	My Min	-23.1384	13.97014	61.62821	-43.3074	-71.7290	0.011453
73	My Max	23.13838	-13.9701	93.04550	43.30744	71.72897	-0.01145
73	Mz Min	9.618282	-32.9234	61.62821	102.0627	29.81667	-0.02317
73	Mz Max	-9.61828	32.92344	93.04550	-102.063	-29.8167	0.023173

3.2 INVILUPPO SPOSTAMENTI NODALI ASSOLUTI

Per ciascuna Condizione di Carico di Inviluppo dei nodi vengono riportati gli spostamenti assoluti inviluppati ai nodi

N	= Numero del Nodo
CdC	= Condizione di Carico di Inviluppo
X	= Spostamento in direzione X
Y	= Spostamento in direzione Y
Z	= Spostamento in direzione Z
Rx	= Rotazione attorno all'asse X
Ry	= Rotazione attorno all'asse Y
Rz	= Rotazione attorno all'asse Z

Sono di seguito elencati i dati dei seguenti inviluppi:

- ~SL18 SLD Sism. Orizz.
- ~SL18 SLE caratt.
- ~SL18 SLV Sism. Orizz. Sicurezza

3.2.1 DESCRIZIONE INVILUPPO “~SL18 SLD SISM. ORIZZ.”

Agisce su tutte le entità del modello.

Condizioni di inviluppo automatiche

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Inviluppo	~SL18 SLD Sism. Orizz._1	Perm.non Contemp.	1	1	1
Inviluppo	~SL18 SLD Sism. Orizz._2	Perm.non Contemp.	1	1	1

Descrizione degli involucri contenuti nell'involucro “~SL18 SLD Sism. Orizz.”

Descrizione involucro “~SL18 SLD Sism. Orizz. 1”:

n°CdC o Involucro	Nome CdC o Involucro	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Permanente		0.8	1
CdC elem. 3St	CdC n. 3	Variabile		0	0.6
CdC elem. 5Dy	Sisma SLD X Dx	Var.non Contemp.	4	-1.5	1.5
CdC elem. 6Dy	Sisma SLD X Sx	Var.non Contemp.	4	-1.5	1.5
CdC elem. 7Dy	Sisma SLD Y Dx	Var.non Contemp.	5	-0.495721	0.495721
CdC elem. 8Dy	Sisma SLD Y Sx	Var.non Contemp.	5	-0.495721	0.495721

Descrizione involucro “~SL18 SLD Sism. Orizz. 2”:

n°CdC o Involucro	Nome CdC o Involucro	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Permanente		0.8	1
CdC elem. 3St	CdC n. 3	Variabile		0	0.6
CdC elem. 5Dy	Sisma SLD X Dx	Var.non Contemp.	4	-0.45	0.45
CdC elem. 6Dy	Sisma SLD X Sx	Var.non Contemp.	4	-0.45	0.45
CdC elem. 7Dy	Sisma SLD Y Dx	Var.non Contemp.	5	-1.6524	1.6524
CdC elem. 8Dy	Sisma SLD Y Sx	Var.non Contemp.	5	-1.6524	1.6524

3.2.2 DESCRIZIONE INVILUPPO “~SL18 SLE CARATT.”

Agisce su tutte le entità del modello.

Condizioni di involucro automatiche

n°CdC o Involucro	Nome CdC o Involucro	Tipologia	Gruppo	Molt.Min	Molt.Max
Involucro	~SL18 SLE caratt. 1	Perm.non Contemp.	1	1	1
Involucro	~SL18 SLE caratt. 2	Perm.non Contemp.	1	1	1

Descrizione degli involucri contenuti nell'involucro “~SL18 SLE caratt.”

Descrizione involucro “~SL18 SLE caratt. 1”:

n°CdC o Involucro	Nome CdC o Involucro	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Permanente		1	1
CdC elem. 3St	CdC n. 3	Variabile		0	1
CdC elem. 4St	VENTO X	Var.non Contemp.	3	-0.6	0.6
CdC elem. 5St	VENTO Y	Var.non Contemp.	3	-0.6	0.6
CdC elem. 6St	VENTO Y-	Var.non Contemp.	3	0.6	0.6

Descrizione involucro “~SL18 SLE caratt. 2”:

n°CdC o Involucro	Nome CdC o Involucro	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Permanente		1	1
CdC elem. 3St	CdC n. 3	Variabile		0	0.7
CdC elem. 4St	VENTO X	Var.non Contemp.	3	-1	1
CdC elem. 5St	VENTO Y	Var.non Contemp.	3	-1	1
CdC elem. 6St	VENTO Y-	Var.non Contemp.	3	1	1

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3.2.3 DESCRIZIONE INVILUPPO “~SL18 SLV SISM. ORIZZ. SICUREZZA”

Agisce su tutte le entità del modello.

Condizioni di inviluppo automatiche

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Inviluppo	~SL18 SLV Sism. Orizz. Sicurezza_1	Perm.non Contemp.	1	1	1
Inviluppo	~SL18 SLV Sism. Orizz. Sicurezza_2	Perm.non Contemp.	1	1	1

Descrizione degli inviluppi contenuti nell'inviluppo “~SL18 SLV Sism. Orizz. Sicurezza”

Descrizione inviluppo “~SL18 SLV Sism. Orizz. Sicurezza_1”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Permanente		0.8	1
CdC elem. 3St	CdC n. 3	Variabile		0	0.6
CdC elem. 9Dy	Sisma SLV X Dx	Var.non Contemp.	4	-1.5	1.5
CdC elem. 10Dy	Sisma SLV X Sx	Var.non Contemp.	4	-1.5	1.5
CdC elem. 11Dy	Sisma SLV Y Dx	Var.non Contemp.	5	-0.534567	0.534567
CdC elem. 12Dy	Sisma SLV Y Sx	Var.non Contemp.	5	-0.534567	0.534567

Descrizione inviluppo “~SL18 SLV Sism. Orizz. Sicurezza_2”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Permanente		0.8	1
CdC elem. 3St	CdC n. 3	Variabile		0	0.6
CdC elem. 9Dy	Sisma SLV X Dx	Var.non Contemp.	4	-0.45	0.45
CdC elem. 10Dy	Sisma SLV X Sx	Var.non Contemp.	4	-0.45	0.45
CdC elem. 11Dy	Sisma SLV Y Dx	Var.non Contemp.	5	-1.78189	1.78189
CdC elem. 12Dy	Sisma SLV Y Sx	Var.non Contemp.	5	-1.78189	1.78189

3.2.4 DESCRIZIONE SPOSTAMENTI

Spostamenti assoluti derivati dall'Inviluppo ~SL18 SLD Sism. Orizz.

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
1	X Min	-1.58787	-0.17206	0.	0.	0.	-0.01376
1	X Max	1.587870	0.172061	0.	0.	0.	0.013755
1	Y Min	-0.32121	-1.14004	0.	0.	0.	0.037970
1	Y Max	0.321214	1.140039	0.	0.	0.	-0.03797
1	Z Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Z Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Rx Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Rx Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Ry Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Ry Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Rz Min	0.321214	-0.73241	0.	0.	0.	-0.03797
1	Rz Max	-0.32121	0.732409	0.	0.	0.	0.037970
N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
2	X Min	-1.55257	-0.17206	0.504967	0.041196	0.216114	-0.01376
2	X Max	1.552573	0.172061	0.320906	-0.04120	0.137209	0.013755

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2	Y Min	-0.41988	-1.14004	0.504967	0.235977	0.216114	0.037970
2	Y Max	0.419879	1.140039	0.320906	-0.23598	0.137209	-0.03797
2	Z Min	0.423205	-0.78874	0.320906	0.169081	0.137209	-0.03518
2	Z Max	-0.42321	0.788737	0.504967	-0.16908	0.216114	0.035176
2	Rx Min	0.419879	1.140039	0.320906	-0.23598	0.137209	-0.03797
2	Rx Max	-0.41988	-1.14004	0.504967	0.235977	0.216114	0.037970
2	Ry Min	0.423205	-0.78874	0.320906	0.169081	0.137209	-0.03518
2	Ry Max	-0.42321	0.788737	0.504967	-0.16908	0.216114	0.035176
2	Rz Min	0.419879	-0.73241	0.504967	0.160768	0.216114	-0.03797
2	Rz Max	-0.41988	0.732409	0.320906	-0.16077	0.137209	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
3	X Min	-1.66333	0.102761	0.201322	-0.03097	0.078988	0.017193
3	X Max	1.663333	-0.10276	0.129281	0.030968	0.050640	-0.01719
3	Y Min	-0.75021	-1.14004	0.201322	0.235977	0.078988	0.037970
3	Y Max	0.750212	1.140039	0.129281	-0.23598	0.050640	-0.03797
3	Z Min	-1.66333	-0.45897	0.129281	0.088056	0.050640	0.017193
3	Z Max	1.663333	0.458973	0.201322	-0.08806	0.078988	-0.01719
3	Rx Min	0.750212	1.140039	0.129281	-0.23598	0.050640	-0.03797
3	Rx Max	-0.75021	-1.14004	0.201322	0.235977	0.078988	0.037970
3	Ry Min	1.497699	-0.20191	0.129281	0.050116	0.050640	0.004441
3	Ry Max	-1.49770	0.201915	0.201322	-0.05012	0.078988	-0.00444
3	Rz Min	0.750212	-0.73241	0.201322	0.160768	0.078988	-0.03797
3	Rz Max	-0.75021	0.732409	0.129281	-0.16077	0.050640	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
4	X Min	-1.67350	0.102761	0.	0.	0.	0.017193
4	X Max	1.673504	-0.10276	0.	0.	0.	-0.01719
4	Y Min	-0.77330	-1.14004	0.	0.	0.	0.037970
4	Y Max	0.773303	1.140039	0.	0.	0.	-0.03797
4	Z Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Z Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Rx Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Rx Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Ry Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Ry Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Rz Min	0.773303	-0.73241	0.	0.	0.	-0.03797
4	Rz Max	-0.77330	0.732409	0.	0.	0.	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
5	X Min	-1.66028	-0.16314	0.	0.	0.	-0.01376
5	X Max	1.660281	0.163142	0.	0.	0.	0.013755
5	Y Min	-0.11881	-1.06678	0.	0.	0.	0.037970
5	Y Max	0.118806	1.066785	0.	0.	0.	-0.03797
5	Z Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Z Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Rx Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Rx Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Ry Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Ry Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Rz Min	0.118806	-0.68480	0.	0.	0.	-0.03797
5	Rz Max	-0.11881	0.684796	0.	0.	0.	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
7	X Min	-1.64683	-0.16314	-0.00725	0.041196	0.215396	-0.01376
7	X Max	1.646833	0.163142	-0.00482	-0.04120	0.141638	0.013755
7	Y Min	-0.15639	-1.06678	-0.00725	0.235977	0.215396	0.037970

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7	Y Max	0.156391	1.066785	-0.00482	-0.23598	0.141638	-0.03797
7	Z Min	-1.57656	0.195707	-0.00725	-0.05012	0.215396	-0.00444
7	Z Max	1.576556	-0.19571	-0.00482	0.050116	0.141638	0.004441
7	Rx Min	0.156391	1.066785	-0.00725	-0.23598	0.215396	-0.03797
7	Rx Max	-0.15639	-1.06678	-0.00482	0.235977	0.141638	0.037970
7	Ry Min	1.402294	-0.10164	-0.00482	0.030968	0.141638	-0.01719
7	Ry Max	-1.40229	0.101642	-0.00725	-0.03097	0.215396	0.017193
7	Rz Min	0.156391	-0.68480	-0.00725	0.160768	0.215396	-0.03797
7	Rz Max	-0.15639	0.684796	-0.00482	-0.16077	0.141638	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
8	X Min	-1.58787	-0.16314	-0.84923	0.125878	0.242791	-0.01376
8	X Max	1.587870	0.163142	-0.54237	0.080665	0.156460	0.013755
8	Y Min	-0.32121	-1.06678	-0.84923	0.125878	0.242791	0.037970
8	Y Max	0.321214	1.066785	-0.54237	0.080665	0.156460	-0.03797
8	Z Min	-1.50797	0.268267	-0.84923	0.125878	0.242791	0.007879
8	Z Max	1.507968	-0.26827	-0.54237	0.080665	0.156460	-0.00788
8	Rx Min	-1.50797	-0.25721	-0.54237	0.080665	0.156460	0.007879
8	Rx Max	1.507968	0.257207	-0.84923	0.125878	0.242791	-0.00788
8	Ry Min	0.331206	-0.73478	-0.54237	0.080665	0.156460	-0.03518
8	Ry Max	-0.33121	0.734784	-0.84923	0.125878	0.242791	0.035176
8	Rz Min	0.321214	-0.68480	-0.84923	0.125878	0.242791	-0.03797
8	Rz Max	-0.32121	0.684796	-0.54237	0.080665	0.156460	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
10	X Min	-1.55257	-0.16314	-0.01785	0.041196	0.259227	-0.01376
10	X Max	1.552573	0.163142	-0.01156	-0.04120	0.165353	0.013755
10	Y Min	-0.41988	-1.06678	-0.01785	0.235977	0.259227	0.037970
10	Y Max	0.419879	1.066785	-0.01156	-0.23598	0.165353	-0.03797
10	Z Min	1.541486	0.329767	-0.01785	-0.06891	0.259227	0.004441
10	Z Max	-1.54149	-0.32977	-0.01156	0.068908	0.165353	-0.00444
10	Rx Min	0.419879	1.066785	-0.01156	-0.23598	0.165353	-0.03797
10	Rx Max	-0.41988	-1.06678	-0.01785	0.235977	0.259227	0.037970
10	Ry Min	0.423205	-0.73478	-0.01156	0.169081	0.165353	-0.03518
10	Ry Max	-0.42321	0.734784	-0.01785	-0.16908	0.259227	0.035176
10	Rz Min	0.419879	-0.68480	-0.01785	0.160768	0.259227	-0.03797
10	Rz Max	-0.41988	0.684796	-0.01156	-0.16077	0.165353	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
12	X Min	-1.66333	0.101642	-0.01278	-0.03097	0.126404	0.017193
12	X Max	1.663333	-0.10164	-0.00840	0.030968	0.081707	-0.01719
12	Y Min	-0.75021	-1.06678	-0.01278	0.235977	0.126404	0.037970
12	Y Max	0.750212	1.066785	-0.00840	-0.23598	0.081707	-0.03797
12	Z Min	1.600180	-0.26827	-0.01278	0.058679	0.126404	-0.00788
12	Z Max	-1.60018	0.268267	-0.00840	-0.05868	0.081707	0.007879
12	Rx Min	0.750212	1.066785	-0.00840	-0.23598	0.081707	-0.03797
12	Rx Max	-0.75021	-1.06678	-0.01278	0.235977	0.126404	0.037970
12	Ry Min	1.497699	-0.19571	-0.00840	0.050116	0.081707	0.004441
12	Ry Max	-1.49770	0.195707	-0.01278	-0.05012	0.126404	-0.00444
12	Rz Min	0.750212	-0.68480	-0.01278	0.160768	0.126404	-0.03797
12	Rz Max	-0.75021	0.684796	-0.00840	-0.16077	0.081707	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
13	X Min	-1.64683	-0.15570	-0.43302	0.041196	0.106986	-0.01376
13	X Max	1.646833	0.155700	-0.28465	-0.04120	0.070290	0.013755
13	Y Min	-0.15639	-0.99195	-0.43302	0.235977	0.106986	0.037970
13	Y Max	0.156391	0.991955	-0.28465	-0.23598	0.070290	-0.03797

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13	Z Min	1.646833	0.155700	-0.43302	-0.04120	0.106986	0.013755
13	Z Max	-1.64683	-0.15570	-0.28465	0.041196	0.070290	-0.01376
13	Rx Min	0.156391	0.991955	-0.43302	-0.23598	0.106986	-0.03797
13	Rx Max	-0.15639	-0.99195	-0.28465	0.235977	0.070290	0.037970
13	Ry Min	1.472571	-0.24681	-0.28465	0.058679	0.070290	-0.00788
13	Ry Max	-1.47257	0.246808	-0.43302	-0.05868	0.106986	0.007879
13	Rz Min	0.156391	-0.64119	-0.43302	0.160768	0.106986	-0.03797
13	Rz Max	-0.15639	0.641191	-0.28465	-0.16077	0.070290	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
14	X Min	-1.55257	-0.15570	-0.59368	0.041196	0.160261	-0.01376
14	X Max	1.552573	0.155700	-0.37985	-0.04120	0.102732	0.013755
14	Y Min	-0.41988	-0.99195	-0.59368	0.235977	0.160261	0.037970
14	Y Max	0.419879	0.991955	-0.37985	-0.23598	0.102732	-0.03797
14	Z Min	-0.42321	0.684514	-0.59368	-0.16908	0.160261	0.035176
14	Z Max	0.423205	-0.68451	-0.37985	0.169081	0.102732	-0.03518
14	Rx Min	0.419879	0.991955	-0.37985	-0.23598	0.102732	-0.03797
14	Rx Max	-0.41988	-0.99195	-0.59368	0.235977	0.160261	0.037970
14	Ry Min	0.423205	-0.68451	-0.37985	0.169081	0.102732	-0.03518
14	Ry Max	-0.42321	0.684514	-0.59368	-0.16908	0.160261	0.035176
14	Rz Min	0.419879	-0.64119	-0.59368	0.160768	0.160261	-0.03797
14	Rz Max	-0.41988	0.641191	-0.37985	-0.16077	0.102732	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
15	X Min	-1.66333	0.102400	-0.33195	-0.03097	0.097564	0.017193
15	X Max	1.663333	-0.10240	-0.21544	0.030968	0.063441	-0.01719
15	Y Min	-0.75021	-0.99195	-0.33195	0.235977	0.097564	0.037970
15	Y Max	0.750212	0.991955	-0.21544	-0.23598	0.063441	-0.03797
15	Z Min	1.663333	0.387544	-0.33195	-0.08806	0.097564	-0.01719
15	Z Max	-1.66333	-0.38754	-0.21544	0.088056	0.063441	0.017193
15	Rx Min	0.750212	0.991955	-0.21544	-0.23598	0.063441	-0.03797
15	Rx Max	-0.75021	-0.99195	-0.33195	0.235977	0.097564	0.037970
15	Ry Min	-1.60018	-0.24314	-0.21544	0.060344	0.063441	0.007879
15	Ry Max	1.600180	0.243135	-0.33195	-0.06034	0.097564	-0.00788
15	Rz Min	0.750212	-0.64119	-0.33195	0.160768	0.097564	-0.03797
15	Rz Max	-0.75021	0.641191	-0.21544	-0.16077	0.063441	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
16	X Min	-1.64683	-0.15069	-0.43507	0.041196	-0.10527	-0.01376
16	X Max	1.646833	0.150688	-0.28599	-0.04120	-0.06916	0.013755
16	Y Min	-0.15639	-0.91988	-0.43507	0.235977	-0.10527	0.037970
16	Y Max	0.156391	0.919878	-0.28599	-0.23598	-0.06916	-0.03797
16	Z Min	1.576556	0.272880	-0.43507	-0.06891	-0.10527	0.004441
16	Z Max	-1.57656	-0.27288	-0.28599	0.068908	-0.06916	-0.00444
16	Rx Min	0.156391	0.919878	-0.43507	-0.23598	-0.10527	-0.03797
16	Rx Max	-0.15639	-0.91988	-0.28599	0.235977	-0.06916	0.037970
16	Ry Min	1.576556	0.272880	-0.43507	-0.06891	-0.10527	0.004441
16	Ry Max	-1.57656	-0.27288	-0.28599	0.068908	-0.06916	-0.00444
16	Rz Min	0.156391	-0.60569	-0.43507	0.160768	-0.10527	-0.03797
16	Rz Max	-0.15639	0.605687	-0.28599	-0.16077	-0.06916	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
17	X Min	-1.55257	-0.15069	-0.61923	0.041196	-0.14392	-0.01376
17	X Max	1.552573	0.150688	-0.39658	-0.04120	-0.09204	0.013755
17	Y Min	-0.41988	-0.91988	-0.61923	0.235977	-0.14392	0.037970
17	Y Max	0.419879	0.919878	-0.39658	-0.23598	-0.09204	-0.03797
17	Z Min	-0.42321	0.642344	-0.61923	-0.16908	-0.14392	0.035176

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17	Z Max	0.423205	-0.64234	-0.39658	0.169081	-0.09204	-0.03518
17	Rx Min	0.419879	0.919878	-0.39658	-0.23598	-0.09204	-0.03797
17	Rx Max	-0.41988	-0.91988	-0.61923	0.235977	-0.14392	0.037970
17	Ry Min	-0.42321	0.642344	-0.61923	-0.16908	-0.14392	0.035176
17	Ry Max	0.423205	-0.64234	-0.39658	0.169081	-0.09204	-0.03518
17	Rz Min	0.419879	-0.60569	-0.61923	0.160768	-0.14392	-0.03797
17	Rz Max	-0.41988	0.605687	-0.39658	-0.16077	-0.09204	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
18	X Min	-1.66333	0.105588	-0.36017	-0.03097	-0.07974	0.017193
18	X Max	1.663333	-0.10559	-0.23402	0.030968	-0.05171	-0.01719
18	Y Min	-0.75021	-0.91988	-0.36017	0.235977	-0.07974	0.037970
18	Y Max	0.750212	0.919878	-0.23402	-0.23598	-0.05171	-0.03797
18	Z Min	-1.49770	0.184789	-0.36017	-0.05012	-0.07974	-0.00444
18	Z Max	1.497699	-0.18479	-0.23402	0.050116	-0.05171	0.004441
18	Rx Min	0.750212	0.919878	-0.23402	-0.23598	-0.05171	-0.03797
18	Rx Max	-0.75021	-0.91988	-0.36017	0.235977	-0.07974	0.037970
18	Ry Min	-1.49770	0.184789	-0.36017	-0.05012	-0.07974	-0.00444
18	Ry Max	1.497699	-0.18479	-0.23402	0.050116	-0.05171	0.004441
18	Rz Min	0.750212	-0.60569	-0.36017	0.160768	-0.07974	-0.03797
18	Rz Max	-0.75021	0.605687	-0.23402	-0.16077	-0.05171	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
20	X Min	-1.64683	-0.14859	-0.01340	0.041196	-0.45656	-0.01376
20	X Max	1.646833	0.148594	-0.00885	-0.04120	0.456558	0.013755
20	Y Min	-0.15639	-0.85123	-0.01340	0.235977	-0.04337	0.037970
20	Y Max	0.156391	0.851225	-0.00885	-0.23598	0.043374	-0.03797
20	Z Min	1.576556	0.248569	-0.01340	-0.06891	0.437078	0.004441
20	Z Max	-1.57656	-0.24857	-0.00885	0.068908	-0.43708	-0.00444
20	Rx Min	0.156391	0.851225	-0.01340	-0.23598	0.043374	-0.03797
20	Rx Max	-0.15639	-0.85123	-0.00885	0.235977	-0.04337	0.037970
20	Ry Min	-1.64683	-0.14859	-0.01340	0.041196	-0.45656	-0.01376
20	Ry Max	1.646833	0.148594	-0.00885	-0.04120	0.456558	0.013755
20	Rz Min	0.156391	-0.57991	-0.01340	0.160768	0.043374	-0.03797
20	Rz Max	-0.15639	0.579908	-0.00885	-0.16077	-0.04337	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
22	X Min	-1.55257	-0.14859	-0.02178	0.041196	-0.43043	-0.01376
22	X Max	1.552573	0.148594	-0.01403	-0.04120	0.430432	0.013755
22	Y Min	-0.41988	-0.85123	-0.02178	0.235977	-0.11641	0.037970
22	Y Max	0.419879	0.851225	-0.01403	-0.23598	0.116406	-0.03797
22	Z Min	0.497983	0.620970	-0.02178	-0.17215	0.138060	0.034144
22	Z Max	-0.49798	-0.62097	-0.01403	0.172150	-0.13806	-0.03414
22	Rx Min	0.419879	0.851225	-0.01403	-0.23598	0.116406	-0.03797
22	Rx Max	-0.41988	-0.85123	-0.02178	0.235977	-0.11641	0.037970
22	Ry Min	-1.55257	-0.14859	-0.02178	0.041196	-0.43043	-0.01376
22	Ry Max	1.552573	0.148594	-0.01403	-0.04120	0.430432	0.013755
22	Rz Min	0.419879	-0.57991	-0.02178	0.160768	0.116406	-0.03797
22	Rz Max	-0.41988	0.579908	-0.01403	-0.16077	-0.11641	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
24	X Min	-1.66333	0.111694	-0.01388	-0.03097	-0.46113	0.017193
24	X Max	1.663333	-0.11169	-0.00909	0.030968	0.461131	-0.01719
24	Y Min	-0.75021	-0.85123	-0.01388	0.235977	-0.20797	0.037970
24	Y Max	0.750212	0.851225	-0.00909	-0.23598	0.207970	-0.03797
24	Z Min	-1.49770	0.180771	-0.01388	-0.05012	-0.41522	-0.00444
24	Z Max	1.497699	-0.18077	-0.00909	0.050116	0.415221	0.004441

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24	Rx Min	0.750212	0.851225	-0.00909	-0.23598	0.207970	-0.03797
24	Rx Max	-0.75021	-0.85123	-0.01388	0.235977	-0.20797	0.037970
24	Ry Min	-1.66333	0.111694	-0.01388	-0.03097	-0.46113	0.017193
24	Ry Max	1.663333	-0.11169	-0.00909	0.030968	0.461131	-0.01719
24	Rz Min	0.750212	-0.57991	-0.01388	0.160768	0.207970	-0.03797
24	Rz Max	-0.75021	0.579908	-0.00909	-0.16077	-0.20797	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
25	X Min	-1.64683	-0.14987	-0.43711	0.041551	0.106128	-0.01376
25	X Max	1.646833	0.149875	-0.28733	-0.04155	0.069727	0.013755
25	Y Min	-0.15639	-0.78685	-0.43711	0.218136	0.106128	0.037970
25	Y Max	0.156391	0.786852	-0.28733	-0.21814	0.069727	-0.03797
25	Z Min	1.646833	-0.25579	-0.43711	0.070912	0.106128	0.013755
25	Z Max	-1.64683	0.255794	-0.28733	-0.07091	0.069727	-0.01376
25	Rx Min	0.156391	0.786852	-0.43711	-0.21814	0.106128	-0.03797
25	Rx Max	-0.15639	-0.78685	-0.28733	0.218136	0.069727	0.037970
25	Ry Min	-1.64683	0.255794	-0.28733	-0.07091	0.069727	-0.01376
25	Ry Max	1.646833	-0.25579	-0.43711	0.070912	0.106128	0.013755
25	Rz Min	0.156391	-0.56538	-0.43711	0.156743	0.106128	-0.03797
25	Rz Max	-0.15639	0.565378	-0.28733	-0.15674	0.069727	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
26	X Min	-1.55257	-0.14987	-0.71772	0.041551	0.175045	-0.01376
26	X Max	1.552573	0.149875	-0.46115	-0.04155	0.112443	0.013755
26	Y Min	-0.41988	-0.78685	-0.71772	0.218136	0.175045	0.037970
26	Y Max	0.419879	0.786852	-0.46115	-0.21814	0.112443	-0.03797
26	Z Min	1.541486	0.227633	-0.71772	-0.06311	0.175045	0.004441
26	Z Max	-1.54149	-0.22763	-0.46115	0.063106	0.112443	-0.00444
26	Rx Min	0.419879	0.786852	-0.46115	-0.21814	0.112443	-0.03797
26	Rx Max	-0.41988	-0.78685	-0.71772	0.218136	0.175045	0.037970
26	Ry Min	-1.54149	-0.22763	-0.46115	0.063106	0.112443	-0.00444
26	Ry Max	1.541486	0.227633	-0.71772	-0.06311	0.175045	0.004441
26	Rz Min	0.419879	-0.56538	-0.71772	0.156743	0.175045	-0.03797
26	Rz Max	-0.41988	0.565378	-0.46115	-0.15674	0.112443	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
27	X Min	-1.66333	0.121175	-0.47218	-0.03360	0.115028	0.017193
27	X Max	1.663333	-0.12117	-0.30781	0.033596	0.074954	-0.01719
27	Y Min	-0.75021	-0.78685	-0.47218	0.218136	0.115028	0.037970
27	Y Max	0.750212	0.786852	-0.30781	-0.21814	0.074954	-0.03797
27	Z Min	-1.49770	0.178036	-0.47218	-0.04936	0.115028	-0.00444
27	Z Max	1.497699	-0.17804	-0.30781	0.049358	0.074954	0.004441
27	Rx Min	0.750212	0.786852	-0.30781	-0.21814	0.074954	-0.03797
27	Rx Max	-0.75021	-0.78685	-0.47218	0.218136	0.115028	0.037970
27	Ry Min	-1.66333	-0.28449	-0.30781	0.078868	0.074954	0.017193
27	Ry Max	1.663333	0.284494	-0.47218	-0.07887	0.115028	-0.01719
27	Rz Min	0.750212	-0.56538	-0.47218	0.156743	0.115028	-0.03797
27	Rz Max	-0.75021	0.565378	-0.30781	-0.15674	0.074954	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
28	X Min	-1.64683	-0.15487	-0.43711	0.042935	-0.10613	-0.01376
28	X Max	1.646833	0.154867	-0.28733	-0.04294	-0.06973	0.013755
28	Y Min	-0.15639	-0.72783	-0.43711	0.201778	-0.10613	0.037970
28	Y Max	0.156391	0.727831	-0.28733	-0.20178	-0.06973	-0.03797
28	Z Min	1.646833	-0.23245	-0.43711	0.064442	-0.10613	0.013755
28	Z Max	-1.64683	0.232448	-0.28733	-0.06444	-0.06973	-0.01376
28	Rx Min	0.156391	0.727831	-0.43711	-0.20178	-0.10613	-0.03797

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28	Rx Max	-0.15639	-0.72783	-0.28733	0.201778	-0.06973	0.037970
28	Ry Min	1.646833	0.154867	-0.43711	-0.04294	-0.10613	0.013755
28	Ry Max	-1.64683	-0.15487	-0.28733	0.042935	-0.06973	-0.01376
28	Rz Min	0.156391	-0.56322	-0.43711	0.156146	-0.10613	-0.03797
28	Rz Max	-0.15639	0.563219	-0.28733	-0.15615	-0.06973	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
29	X Min	-1.55257	-0.15487	-0.71794	0.042935	-0.17486	-0.01376
29	X Max	1.552573	0.154867	-0.46129	-0.04294	-0.11233	0.013755
29	Y Min	-0.41988	-0.72783	-0.71794	0.201778	-0.17486	0.037970
29	Y Max	0.419879	0.727831	-0.46129	-0.20178	-0.11233	-0.03797
29	Z Min	1.541486	0.210409	-0.71794	-0.05833	-0.17486	0.004441
29	Z Max	-1.54149	-0.21041	-0.46129	0.058332	-0.11233	-0.00444
29	Rx Min	0.419879	0.727831	-0.46129	-0.20178	-0.11233	-0.03797
29	Rx Max	-0.41988	-0.72783	-0.71794	0.201778	-0.17486	0.037970
29	Ry Min	1.541486	0.210409	-0.71794	-0.05833	-0.17486	0.004441
29	Ry Max	-1.54149	-0.21041	-0.46129	0.058332	-0.11233	-0.00444
29	Rz Min	0.419879	-0.56322	-0.71794	0.156146	-0.17486	-0.03797
29	Rz Max	-0.41988	0.563219	-0.46129	-0.15615	-0.11233	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
30	X Min	-1.66333	0.134367	-0.47243	-0.03725	-0.11482	0.017193
30	X Max	1.663333	-0.13437	-0.30797	0.037253	-0.07482	-0.01719
30	Y Min	-0.75021	-0.72783	-0.47243	0.201778	-0.11482	0.037970
30	Y Max	0.750212	0.727831	-0.30797	-0.20178	-0.07482	-0.03797
30	Z Min	-1.49770	0.176907	-0.47243	-0.04905	-0.11482	-0.00444
30	Z Max	1.497699	-0.17691	-0.30797	0.049045	-0.07482	0.004441
30	Rx Min	0.750212	0.727831	-0.30797	-0.20178	-0.07482	-0.03797
30	Rx Max	-0.75021	-0.72783	-0.47243	0.201778	-0.11482	0.037970
30	Ry Min	1.434546	-0.23245	-0.47243	0.064442	-0.11482	0.013755
30	Ry Max	-1.43455	0.232448	-0.30797	-0.06444	-0.07482	-0.01376
30	Rz Min	0.750212	-0.56322	-0.47243	0.156146	-0.11482	-0.03797
30	Rz Max	-0.75021	0.563219	-0.30797	-0.15615	-0.07482	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
32	X Min	-1.64683	-0.16370	-0.01340	0.045384	-0.45656	-0.01376
32	X Max	1.646833	0.163699	-0.00885	-0.04538	0.456558	0.013755
32	Y Min	-0.15639	-0.67547	-0.01340	0.187266	-0.04337	0.037970
32	Y Max	0.156391	0.675471	-0.00885	-0.18727	0.043374	-0.03797
32	Z Min	1.646833	0.163699	-0.01340	-0.04538	0.456558	0.013755
32	Z Max	-1.64683	-0.16370	-0.00885	0.045384	-0.45656	-0.01376
32	Rx Min	0.156391	0.675471	-0.01340	-0.18727	0.043374	-0.03797
32	Rx Max	-0.15639	-0.67547	-0.00885	0.187266	-0.04337	0.037970
32	Ry Min	-1.64683	-0.16370	-0.01340	0.045384	-0.45656	-0.01376
32	Ry Max	1.646833	0.163699	-0.00885	-0.04538	0.456558	0.013755
32	Rz Min	0.156391	-0.57386	-0.01340	0.159096	0.043374	-0.03797
32	Rz Max	-0.15639	0.573863	-0.00885	-0.15910	-0.04337	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
34	X Min	-1.55257	-0.16370	-0.02243	0.045384	-0.43043	-0.01376
34	X Max	1.552573	0.163699	-0.01446	-0.04538	0.430432	0.013755
34	Y Min	-0.41988	-0.67547	-0.02243	0.187266	-0.11641	0.037970
34	Y Max	0.419879	0.675471	-0.01446	-0.18727	0.116406	-0.03797
34	Z Min	1.518054	0.223401	-0.02243	-0.06194	0.420862	-0.01719
34	Z Max	-1.51805	-0.22340	-0.01446	0.061935	-0.42086	0.017193
34	Rx Min	0.419879	0.675471	-0.01446	-0.18727	0.116406	-0.03797
34	Rx Max	-0.41988	-0.67547	-0.02243	0.187266	-0.11641	0.037970

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34	Ry Min	-1.55257	-0.16370	-0.02243	0.045384	-0.43043	-0.01376
34	Ry Max	1.552573	0.163699	-0.01446	-0.04538	0.430432	0.013755
34	Rz Min	0.419879	-0.57386	-0.02243	0.159096	0.116406	-0.03797
34	Rz Max	-0.41988	0.573863	-0.01446	-0.15910	-0.11641	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
36	X Min	-1.66333	0.151399	-0.01462	-0.04197	-0.46113	0.017193
36	X Max	1.663333	-0.15140	-0.00957	0.041974	0.461131	-0.01719
36	Y Min	-0.75021	-0.67547	-0.01462	0.187266	-0.20797	0.037970
36	Y Max	0.750212	0.675471	-0.00957	-0.18727	0.207970	-0.03797
36	Z Min	-1.66333	-0.22340	-0.01462	0.061935	-0.46113	0.017193
36	Z Max	1.663333	0.223401	-0.00957	-0.06194	0.461131	-0.01719
36	Rx Min	0.750212	0.675471	-0.00957	-0.18727	0.207970	-0.03797
36	Rx Max	-0.75021	-0.67547	-0.01462	0.187266	-0.20797	0.037970
36	Ry Min	-1.66333	0.151399	-0.01462	-0.04197	-0.46113	0.017193
36	Ry Max	1.663333	-0.15140	-0.00957	0.041974	0.461131	-0.01719
36	Rz Min	0.750212	-0.57386	-0.01462	0.159096	0.207970	-0.03797
36	Rz Max	-0.75021	0.573863	-0.00957	-0.15910	-0.20797	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
37	X Min	-1.64683	-0.17626	-0.43711	0.048865	0.106128	-0.01376
37	X Max	1.646833	0.176256	-0.28733	-0.04886	0.069727	0.013755
37	Y Min	-0.15639	-0.63129	-0.43711	0.175018	0.106128	0.037970
37	Y Max	0.156391	0.631291	-0.28733	-0.17502	0.069727	-0.03797
37	Z Min	-1.47257	-0.18520	-0.43711	0.051344	0.106128	0.007879
37	Z Max	1.472571	0.185199	-0.28733	-0.05134	0.069727	-0.00788
37	Rx Min	0.156391	0.631291	-0.43711	-0.17502	0.106128	-0.03797
37	Rx Max	-0.15639	-0.63129	-0.28733	0.175018	0.069727	0.037970
37	Ry Min	1.646833	-0.19221	-0.28733	0.053287	0.069727	0.013755
37	Ry Max	-1.64683	0.192207	-0.43711	-0.05329	0.106128	-0.01376
37	Rz Min	0.156391	-0.59692	-0.43711	0.165488	0.106128	-0.03797
37	Rz Max	-0.15639	0.596918	-0.28733	-0.16549	0.069727	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
38	X Min	-1.55257	-0.17626	-0.71815	0.048865	0.174954	-0.01376
38	X Max	1.552573	0.176256	-0.46143	-0.04886	0.112384	0.013755
38	Y Min	-0.41988	-0.63129	-0.71815	0.175018	0.174954	0.037970
38	Y Max	0.419879	0.631291	-0.46143	-0.17502	0.112384	-0.03797
38	Z Min	-1.54149	0.181099	-0.71815	-0.05021	0.174954	-0.00444
38	Z Max	1.541486	-0.18110	-0.46143	0.050207	0.112384	0.004441
38	Rx Min	0.419879	0.631291	-0.46143	-0.17502	0.112384	-0.03797
38	Rx Max	-0.41988	-0.63129	-0.71815	0.175018	0.174954	0.037970
38	Ry Min	1.541486	-0.18110	-0.46143	0.050207	0.112384	0.004441
38	Ry Max	-1.54149	0.181099	-0.71815	-0.05021	0.174954	-0.00444
38	Rz Min	0.419879	-0.59692	-0.71815	0.165488	0.174954	-0.03797
38	Rz Max	-0.41988	0.596918	-0.46143	-0.16549	0.112384	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
39	X Min	-1.66333	0.172156	-0.47268	-0.04773	0.114924	0.017193
39	X Max	1.663333	-0.17216	-0.30814	0.047728	0.074886	-0.01719
39	Y Min	-0.75021	-0.63129	-0.47268	0.175018	0.114924	0.037970
39	Y Max	0.750212	0.631291	-0.30814	-0.17502	0.074886	-0.03797
39	Z Min	1.497699	-0.18110	-0.47268	0.050207	0.114924	0.004441
39	Z Max	-1.49770	0.181099	-0.30814	-0.05021	0.074886	-0.00444
39	Rx Min	0.750212	0.631291	-0.30814	-0.17502	0.074886	-0.03797
39	Rx Max	-0.75021	-0.63129	-0.47268	0.175018	0.114924	0.037970
39	Ry Min	-1.49770	0.181099	-0.30814	-0.05021	0.074886	-0.00444

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39	Ry Max	1.497699	-0.18110	-0.47268	0.050207	0.114924	0.004441
39	Rz Min	0.750212	-0.59692	-0.47268	0.165488	0.114924	-0.03797
39	Rz Max	-0.75021	0.596918	-0.30814	-0.16549	0.074886	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
40	X Min	-1.64683	-0.19221	-0.43711	0.053287	-0.10613	-0.01376
40	X Max	1.646833	0.192207	-0.28733	-0.05329	-0.06973	0.013755
40	Y Min	0.156391	-0.63129	-0.43711	0.175018	-0.10613	-0.03797
40	Y Max	-0.15639	0.631292	-0.28733	-0.17502	-0.06973	0.037970
40	Z Min	-1.47257	0.185199	-0.43711	-0.05134	-0.10613	0.007879
40	Z Max	1.472571	-0.18520	-0.28733	0.051344	-0.06973	-0.00788
40	Rx Min	-0.15639	0.631292	-0.43711	-0.17502	-0.10613	0.037970
40	Rx Max	0.156391	-0.63129	-0.28733	0.175018	-0.06973	-0.03797
40	Ry Min	-1.47257	-0.18326	-0.43711	0.050808	-0.10613	0.007879
40	Ry Max	1.472571	0.183264	-0.28733	-0.05081	-0.06973	-0.00788
40	Rz Min	0.156391	-0.63129	-0.43711	0.175018	-0.10613	-0.03797
40	Rz Max	-0.15639	0.631292	-0.28733	-0.17502	-0.06973	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
41	X Min	-1.55257	-0.19221	-0.71815	0.053287	-0.17496	-0.01376
41	X Max	1.552573	0.192207	-0.46143	-0.05329	-0.11238	0.013755
41	Y Min	0.419879	-0.63129	-0.71815	0.175018	-0.17496	-0.03797
41	Y Max	-0.41988	0.631292	-0.46143	-0.17502	-0.11238	0.037970
41	Z Min	-1.51805	-0.17216	-0.71815	0.047728	-0.17496	0.017193
41	Z Max	1.518054	0.172156	-0.46143	-0.04773	-0.11238	-0.01719
41	Rx Min	-0.41988	0.631292	-0.46143	-0.17502	-0.11238	0.037970
41	Rx Max	0.419879	-0.63129	-0.71815	0.175018	-0.17496	-0.03797
41	Ry Min	-1.51805	0.196307	-0.71815	-0.05442	-0.17496	0.017193
41	Ry Max	1.518054	-0.19631	-0.46143	0.054424	-0.11238	-0.01719
41	Rz Min	0.419879	-0.63129	-0.71815	0.175018	-0.17496	-0.03797
41	Rz Max	-0.41988	0.631292	-0.46143	-0.17502	-0.11238	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
42	X Min	-1.66333	0.196307	-0.47267	-0.05442	-0.11492	0.017193
42	X Max	1.663333	-0.19631	-0.30814	0.054424	-0.07489	-0.01719
42	Y Min	0.750212	-0.63129	-0.47267	0.175018	-0.11492	-0.03797
42	Y Max	-0.75021	0.631292	-0.30814	-0.17502	-0.07489	0.037970
42	Z Min	1.497699	-0.18736	-0.47267	0.051944	-0.11492	0.004441
42	Z Max	-1.49770	0.187364	-0.30814	-0.05194	-0.07489	-0.00444
42	Rx Min	-0.75021	0.631292	-0.30814	-0.17502	-0.07489	0.037970
42	Rx Max	0.750212	-0.63129	-0.47267	0.175018	-0.11492	-0.03797
42	Ry Min	1.663333	0.172156	-0.47267	-0.04773	-0.11492	-0.01719
42	Ry Max	-1.66333	-0.17216	-0.30814	0.047728	-0.07489	0.017193
42	Rz Min	0.750212	-0.63129	-0.47267	0.175018	-0.11492	-0.03797
42	Rz Max	-0.75021	0.631292	-0.30814	-0.17502	-0.07489	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
44	X Min	-1.64683	-0.21110	-0.01340	0.058525	-0.45656	-0.01376
44	X Max	1.646833	0.211101	-0.00885	-0.05853	0.456558	0.013755
44	Y Min	0.156391	-0.67547	-0.01340	0.187266	0.043374	-0.03797
44	Y Max	-0.15639	0.675471	-0.00885	-0.18727	-0.04337	0.037970
44	Z Min	-1.64683	0.163699	-0.01340	-0.04538	-0.45656	-0.01376
44	Z Max	1.646833	-0.16370	-0.00885	0.045384	0.456558	0.013755
44	Rx Min	-0.15639	0.675471	-0.01340	-0.18727	-0.04337	0.037970
44	Rx Max	0.156391	-0.67547	-0.00885	0.187266	0.043374	-0.03797
44	Ry Min	-1.64683	-0.21110	-0.01340	0.058525	-0.45656	-0.01376
44	Ry Max	1.646833	0.211101	-0.00885	-0.05853	0.456558	0.013755

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44	Rz Min	0.156391	-0.67547	-0.01340	0.187266	0.043374	-0.03797
44	Rz Max	-0.15639	0.675471	-0.00885	-0.18727	-0.04337	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
46	X Min	-1.55257	-0.21110	-0.02243	0.058525	-0.43043	-0.01376
46	X Max	1.552573	0.211101	-0.01446	-0.05853	0.430432	0.013755
46	Y Min	0.419879	-0.67547	-0.02243	0.187266	0.116406	-0.03797
46	Y Max	-0.41988	0.675471	-0.01446	-0.18727	-0.11641	0.037970
46	Z Min	1.518054	-0.22340	-0.02243	0.061935	0.420862	-0.01719
46	Z Max	-1.51805	0.223401	-0.01446	-0.06194	-0.42086	0.017193
46	Rx Min	-0.41988	0.675471	-0.01446	-0.18727	-0.11641	0.037970
46	Rx Max	0.419879	-0.67547	-0.02243	0.187266	0.116406	-0.03797
46	Ry Min	-1.55257	-0.21110	-0.02243	0.058525	-0.43043	-0.01376
46	Ry Max	1.552573	0.211101	-0.01446	-0.05853	0.430432	0.013755
46	Rz Min	0.419879	-0.67547	-0.02243	0.187266	0.116406	-0.03797
46	Rz Max	-0.41988	0.675471	-0.01446	-0.18727	-0.11641	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
48	X Min	-1.66333	0.223401	-0.01462	-0.06194	-0.46113	0.017193
48	X Max	1.663333	-0.22340	-0.00957	0.061935	0.461131	-0.01719
48	Y Min	0.750212	-0.67547	-0.01462	0.187266	0.207970	-0.03797
48	Y Max	-0.75021	0.675471	-0.00957	-0.18727	-0.20797	0.037970
48	Z Min	-1.66333	0.223401	-0.01462	-0.06194	-0.46113	0.017193
48	Z Max	1.663333	-0.22340	-0.00957	0.061935	0.461131	-0.01719
48	Rx Min	-0.75021	0.675471	-0.00957	-0.18727	-0.20797	0.037970
48	Rx Max	0.750212	-0.67547	-0.01462	0.187266	0.207970	-0.03797
48	Ry Min	-1.66333	0.223401	-0.01462	-0.06194	-0.46113	0.017193
48	Ry Max	1.663333	-0.22340	-0.00957	0.061935	0.461131	-0.01719
48	Rz Min	0.750212	-0.67547	-0.01462	0.187266	0.207970	-0.03797
48	Rz Max	-0.75021	0.675471	-0.00957	-0.18727	-0.20797	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
49	X Min	-1.64683	-0.23245	-0.43711	0.064442	0.106128	-0.01376
49	X Max	1.646833	0.232448	-0.28733	-0.06444	0.069727	0.013755
49	Y Min	0.156391	-0.72783	-0.43711	0.201778	0.106128	-0.03797
49	Y Max	-0.15639	0.727831	-0.28733	-0.20178	0.069727	0.037970
49	Z Min	-1.47257	0.197407	-0.43711	-0.05473	0.106128	0.007879
49	Z Max	1.472571	-0.19741	-0.28733	0.054728	0.069727	-0.00788
49	Rx Min	-0.15639	0.727831	-0.43711	-0.20178	0.106128	0.037970
49	Rx Max	0.156391	-0.72783	-0.28733	0.201778	0.069727	-0.03797
49	Ry Min	-1.40229	-0.13437	-0.28733	0.037253	0.069727	0.017193
49	Ry Max	1.402294	0.134367	-0.43711	-0.03725	0.106128	-0.01719
49	Rz Min	0.156391	-0.72783	-0.43711	0.201778	0.106128	-0.03797
49	Rz Max	-0.15639	0.727831	-0.28733	-0.20178	0.069727	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
50	X Min	-1.55257	-0.23245	-0.71794	0.064442	0.174864	-0.01376
50	X Max	1.552573	0.232448	-0.46129	-0.06444	0.112324	0.013755
50	Y Min	0.419879	-0.72783	-0.71794	0.201778	0.174864	-0.03797
50	Y Max	-0.41988	0.727831	-0.46129	-0.20178	0.112324	0.037970
50	Z Min	1.541486	-0.21041	-0.71794	0.058332	0.174864	0.004441
50	Z Max	-1.54149	0.210409	-0.46129	-0.05833	0.112324	-0.00444
50	Rx Min	-0.41988	0.727831	-0.46129	-0.20178	0.112324	0.037970
50	Rx Max	0.419879	-0.72783	-0.71794	0.201778	0.174864	-0.03797
50	Ry Min	-1.54149	-0.17691	-0.46129	0.049045	0.112324	-0.00444
50	Ry Max	1.541486	0.176907	-0.71794	-0.04905	0.174864	0.004441
50	Rz Min	0.419879	-0.72783	-0.71794	0.201778	0.174864	-0.03797

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50	Rz Max	-0.41988	0.727831	-0.46129	-0.20178	0.112324	0.037970
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N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
51	X Min	-1.66333	0.252948	-0.47243	-0.07012	0.114820	0.017193
51	X Max	1.663333	-0.25295	-0.30797	0.070125	0.074817	-0.01719
51	Y Min	0.750212	-0.72783	-0.47243	0.201778	0.114820	-0.03797
51	Y Max	-0.75021	0.727831	-0.30797	-0.20178	0.074817	0.037970
51	Z Min	-1.49770	-0.17691	-0.47243	0.049045	0.114820	-0.00444
51	Z Max	1.497699	0.176907	-0.30797	-0.04905	0.074817	0.004441
51	Rx Min	-0.75021	0.727831	-0.30797	-0.20178	0.074817	0.037970
51	Rx Max	0.750212	-0.72783	-0.47243	0.201778	0.114820	-0.03797
51	Ry Min	1.497699	0.176907	-0.30797	-0.04905	0.074817	0.004441
51	Ry Max	-1.49770	-0.17691	-0.47243	0.049045	0.114820	-0.00444
51	Rz Min	0.750212	-0.72783	-0.47243	0.201778	0.114820	-0.03797
51	Rz Max	-0.75021	0.727831	-0.30797	-0.20178	0.074817	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
52	X Min	-1.64683	-0.25579	-0.43711	0.070912	-0.10613	-0.01376
52	X Max	1.646833	0.255794	-0.28733	-0.07091	-0.06973	0.013755
52	Y Min	0.156391	-0.78685	-0.43711	0.218136	-0.10613	-0.03797
52	Y Max	-0.15639	0.786853	-0.28733	-0.21814	-0.06973	0.037970
52	Z Min	-1.47257	0.206736	-0.43711	-0.05731	-0.10613	0.007879
52	Z Max	1.472571	-0.20674	-0.28733	0.057313	-0.06973	-0.00788
52	Rx Min	-0.15639	0.786853	-0.43711	-0.21814	-0.10613	0.037970
52	Rx Max	0.156391	-0.78685	-0.28733	0.218136	-0.06973	-0.03797
52	Ry Min	-1.47257	0.206736	-0.43711	-0.05731	-0.10613	0.007879
52	Ry Max	1.472571	-0.20674	-0.28733	0.057313	-0.06973	-0.00788
52	Rz Min	0.156391	-0.78685	-0.43711	0.218136	-0.10613	-0.03797
52	Rz Max	-0.15639	0.786853	-0.28733	-0.21814	-0.06973	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
53	X Min	-1.55257	-0.25579	-0.71772	0.070912	-0.17505	-0.01376
53	X Max	1.552573	0.255794	-0.46115	-0.07091	-0.11244	0.013755
53	Y Min	0.419879	-0.78685	-0.71772	0.218136	-0.17505	-0.03797
53	Y Max	-0.41988	0.786853	-0.46115	-0.21814	-0.11244	0.037970
53	Z Min	1.541486	-0.22763	-0.71772	0.063106	-0.17505	0.004441
53	Z Max	-1.54149	0.227633	-0.46115	-0.06311	-0.11244	-0.00444
53	Rx Min	-0.41988	0.786853	-0.46115	-0.21814	-0.11244	0.037970
53	Rx Max	0.419879	-0.78685	-0.71772	0.218136	-0.17505	-0.03797
53	Ry Min	1.518054	0.121175	-0.71772	-0.03360	-0.17505	-0.01719
53	Ry Max	-1.51805	-0.12117	-0.46115	0.033596	-0.11244	0.017193
53	Rz Min	0.419879	-0.78685	-0.71772	0.218136	-0.17505	-0.03797
53	Rz Max	-0.41988	0.786853	-0.46115	-0.21814	-0.11244	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
54	X Min	-1.66333	0.284494	-0.47218	-0.07887	-0.11503	0.017193
54	X Max	1.663333	-0.28449	-0.30781	0.078868	-0.07495	-0.01719
54	Y Min	0.750212	-0.78685	-0.47218	0.218136	-0.11503	-0.03797
54	Y Max	-0.75021	0.786853	-0.30781	-0.21814	-0.07495	0.037970
54	Z Min	1.600180	-0.20674	-0.47218	0.057313	-0.11503	-0.00788
54	Z Max	-1.60018	0.206736	-0.30781	-0.05731	-0.07495	0.007879
54	Rx Min	-0.75021	0.786853	-0.30781	-0.21814	-0.07495	0.037970
54	Rx Max	0.750212	-0.78685	-0.47218	0.218136	-0.11503	-0.03797
54	Ry Min	-1.49770	-0.17804	-0.47218	0.049358	-0.11503	-0.00444
54	Ry Max	1.497699	0.178036	-0.30781	-0.04936	-0.07495	0.004441
54	Rz Min	0.750212	-0.78685	-0.47218	0.218136	-0.11503	-0.03797
54	Rz Max	-0.75021	0.786853	-0.30781	-0.21814	-0.07495	0.037970

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N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
56	X Min	-1.64683	-0.28075	-0.01340	0.077828	-0.45656	-0.01376
56	X Max	1.646833	0.280746	-0.00885	-0.07783	0.456558	0.013755
56	Y Min	0.156391	-0.85123	-0.01340	0.235977	0.043374	-0.03797
56	Y Max	-0.15639	0.851225	-0.00885	-0.23598	-0.04337	0.037970
56	Z Min	-1.64683	0.148594	-0.01340	-0.04120	-0.45656	-0.01376
56	Z Max	1.646833	-0.14859	-0.00885	0.041196	0.456558	0.013755
56	Rx Min	-0.15639	0.851225	-0.01340	-0.23598	-0.04337	0.037970
56	Rx Max	0.156391	-0.85123	-0.00885	0.235977	0.043374	-0.03797
56	Ry Min	-1.64683	-0.28075	-0.01340	0.077828	-0.45656	-0.01376
56	Ry Max	1.646833	0.280746	-0.00885	-0.07783	0.456558	0.013755
56	Rz Min	0.156391	-0.85123	-0.01340	0.235977	0.043374	-0.03797
56	Rz Max	-0.15639	0.851225	-0.00885	-0.23598	-0.04337	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
58	X Min	-1.55257	-0.28075	-0.02178	0.077828	-0.43043	-0.01376
58	X Max	1.552573	0.280746	-0.01403	-0.07783	0.430432	0.013755
58	Y Min	0.419879	-0.85123	-0.02178	0.235977	0.116406	-0.03797
58	Y Max	-0.41988	0.851225	-0.01403	-0.23598	-0.11641	0.037970
58	Z Min	1.518054	0.111694	-0.02178	-0.03097	0.420862	-0.01719
58	Z Max	-1.51805	-0.11169	-0.01403	0.030968	-0.42086	0.017193
58	Rx Min	-0.41988	0.851225	-0.01403	-0.23598	-0.11641	0.037970
58	Rx Max	0.419879	-0.85123	-0.02178	0.235977	0.116406	-0.03797
58	Ry Min	-1.55257	-0.28075	-0.02178	0.077828	-0.43043	-0.01376
58	Ry Max	1.552573	0.280746	-0.01403	-0.07783	0.430432	0.013755
58	Rz Min	0.419879	-0.85123	-0.02178	0.235977	0.116406	-0.03797
58	Rz Max	-0.41988	0.851225	-0.01403	-0.23598	-0.11641	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
60	X Min	-1.66333	0.317646	-0.01388	-0.08806	-0.46113	0.017193
60	X Max	1.663333	-0.31765	-0.00909	0.088056	0.461131	-0.01719
60	Y Min	0.750212	-0.85123	-0.01388	0.235977	0.207970	-0.03797
60	Y Max	-0.75021	0.851225	-0.00909	-0.23598	-0.20797	0.037970
60	Z Min	-1.49770	-0.18077	-0.01388	0.050116	-0.41522	-0.00444
60	Z Max	1.497699	0.180771	-0.00909	-0.05012	0.415221	0.004441
60	Rx Min	-0.75021	0.851225	-0.00909	-0.23598	-0.20797	0.037970
60	Rx Max	0.750212	-0.85123	-0.01388	0.235977	0.207970	-0.03797
60	Ry Min	-1.66333	0.317646	-0.01388	-0.08806	-0.46113	0.017193
60	Ry Max	1.663333	-0.31765	-0.00909	0.088056	0.461131	-0.01719
60	Rz Min	0.750212	-0.85123	-0.01388	0.235977	0.207970	-0.03797
60	Rz Max	-0.75021	0.851225	-0.00909	-0.23598	-0.20797	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
61	X Min	-1.64683	-0.30698	-0.43507	0.077828	0.105269	-0.01376
61	X Max	1.646833	0.306981	-0.28599	-0.07783	0.069164	0.013755
61	Y Min	0.156391	-0.91988	-0.43507	0.235977	0.105269	-0.03797
61	Y Max	-0.15639	0.919878	-0.28599	-0.23598	0.069164	0.037970
61	Z Min	-1.47257	-0.22778	-0.43507	0.058679	0.105269	0.007879
61	Z Max	1.472571	0.227780	-0.28599	-0.05868	0.069164	-0.00788
61	Rx Min	-0.15639	0.919878	-0.43507	-0.23598	0.105269	0.037970
61	Rx Max	0.156391	-0.91988	-0.28599	0.235977	0.069164	-0.03797
61	Ry Min	1.646833	-0.15069	-0.28599	0.041196	0.069164	0.013755
61	Ry Max	-1.64683	0.150688	-0.43507	-0.04120	0.105269	-0.01376
61	Rz Min	0.156391	-0.91988	-0.43507	0.235977	0.105269	-0.03797
61	Rz Max	-0.15639	0.919878	-0.28599	-0.23598	0.069164	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
62	X Min	-1.55257	-0.30698	-0.61923	0.077828	0.143917	-0.01376
62	X Max	1.552573	0.306981	-0.39658	-0.07783	0.092040	0.013755
62	Y Min	0.419879	-0.91988	-0.61923	0.235977	0.143917	-0.03797
62	Y Max	-0.41988	0.919878	-0.39658	-0.23598	0.092040	0.037970
62	Z Min	-0.42321	-0.64234	-0.61923	0.169081	0.143917	0.035176
62	Z Max	0.423205	0.642345	-0.39658	-0.16908	0.092040	-0.03518
62	Rx Min	-0.41988	0.919878	-0.39658	-0.23598	0.092040	0.037970
62	Rx Max	0.419879	-0.91988	-0.61923	0.235977	0.143917	-0.03797
62	Ry Min	1.552573	-0.15069	-0.39658	0.041196	0.092040	0.013755
62	Ry Max	-1.55257	0.150688	-0.61923	-0.04120	0.143917	-0.01376
62	Rz Min	0.419879	-0.91988	-0.61923	0.235977	0.143917	-0.03797
62	Rz Max	-0.41988	0.919878	-0.39658	-0.23598	0.092040	0.037970
N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
63	X Min	-1.66333	0.352081	-0.36017	-0.08806	0.079744	0.017193
63	X Max	1.663333	-0.35208	-0.23402	0.088056	0.051711	-0.01719
63	Y Min	0.750212	-0.91988	-0.36017	0.235977	0.079744	-0.03797
63	Y Max	-0.75021	0.919878	-0.23402	-0.23598	0.051711	0.037970
63	Z Min	-1.49770	-0.18479	-0.36017	0.050116	0.079744	-0.00444
63	Z Max	1.497699	0.184789	-0.23402	-0.05012	0.051711	0.004441
63	Rx Min	-0.75021	0.919878	-0.23402	-0.23598	0.051711	0.037970
63	Rx Max	0.750212	-0.91988	-0.36017	0.235977	0.079744	-0.03797
63	Ry Min	1.497699	0.184789	-0.23402	-0.05012	0.051711	0.004441
63	Ry Max	-1.49770	-0.18479	-0.36017	0.050116	0.079744	-0.00444
63	Rz Min	0.750212	-0.91988	-0.36017	0.235977	0.079744	-0.03797
63	Rz Max	-0.75021	0.919878	-0.23402	-0.23598	0.051711	0.037970
N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
64	X Min	-1.64683	-0.33424	-0.43302	0.077828	-0.10699	-0.01376
64	X Max	1.646833	0.334244	-0.28465	-0.07783	-0.07029	0.013755
64	Y Min	0.156391	-0.99195	-0.43302	0.235977	-0.10699	-0.03797
64	Y Max	-0.15639	0.991955	-0.28465	-0.23598	-0.07029	0.037970
64	Z Min	-1.64683	-0.33424	-0.43302	0.077828	-0.10699	-0.01376
64	Z Max	1.646833	0.334244	-0.28465	-0.07783	-0.07029	0.013755
64	Rx Min	-0.15639	0.991955	-0.43302	-0.23598	-0.10699	0.037970
64	Rx Max	0.156391	-0.99195	-0.28465	0.235977	-0.07029	-0.03797
64	Ry Min	-1.47257	-0.24681	-0.43302	0.058679	-0.10699	0.007879
64	Ry Max	1.472571	0.246809	-0.28465	-0.05868	-0.07029	-0.00788
64	Rz Min	0.156391	-0.99195	-0.43302	0.235977	-0.10699	-0.03797
64	Rz Max	-0.15639	0.991955	-0.28465	-0.23598	-0.07029	0.037970
N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
65	X Min	-1.55257	-0.33424	-0.59368	0.077828	-0.16026	-0.01376
65	X Max	1.552573	0.334244	-0.37985	-0.07783	-0.10273	0.013755
65	Y Min	0.419879	-0.99195	-0.59368	0.235977	-0.16026	-0.03797
65	Y Max	-0.41988	0.991955	-0.37985	-0.23598	-0.10273	0.037970
65	Z Min	-1.55257	0.155700	-0.59368	-0.04120	-0.16026	-0.01376
65	Z Max	1.552573	-0.15570	-0.37985	0.041196	-0.10273	0.013755
65	Rx Min	-0.41988	0.991955	-0.37985	-0.23598	-0.10273	0.037970
65	Rx Max	0.419879	-0.99195	-0.59368	0.235977	-0.16026	-0.03797
65	Ry Min	-0.42321	-0.68451	-0.59368	0.169081	-0.16026	0.035176
65	Ry Max	0.423205	0.684514	-0.37985	-0.16908	-0.10273	-0.03518
65	Rz Min	0.419879	-0.99195	-0.59368	0.235977	-0.16026	-0.03797
65	Rz Max	-0.41988	0.991955	-0.37985	-0.23598	-0.10273	0.037970

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N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
66	X Min	-1.66333	0.387544	-0.33195	-0.08806	-0.09756	0.017193
66	X Max	1.663333	-0.38754	-0.21544	0.088056	-0.06344	-0.01719
66	Y Min	0.750212	-0.99195	-0.33195	0.235977	-0.09756	-0.03797
66	Y Max	-0.75021	0.991955	-0.21544	-0.23598	-0.06344	0.037970
66	Z Min	-1.49770	-0.18984	-0.33195	0.050116	-0.09756	-0.00444
66	Z Max	1.497699	0.189835	-0.21544	-0.05012	-0.06344	0.004441
66	Rx Min	-0.75021	0.991955	-0.21544	-0.23598	-0.06344	0.037970
66	Rx Max	0.750212	-0.99195	-0.33195	0.235977	-0.09756	-0.03797
66	Ry Min	-1.66333	0.387544	-0.33195	-0.08806	-0.09756	0.017193
66	Ry Max	1.663333	-0.38754	-0.21544	0.088056	-0.06344	-0.01719
66	Rz Min	0.750212	-0.99195	-0.33195	0.235977	-0.09756	-0.03797
66	Rz Max	-0.75021	0.991955	-0.21544	-0.23598	-0.06344	0.037970
N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
67	X Min	-1.66028	-0.36233	0.	0.	0.	-0.01376
67	X Max	1.660281	0.362332	0.	0.	0.	0.013755
67	Y Min	0.118806	-1.06678	0.	0.	0.	-0.03797
67	Y Max	-0.11881	1.066785	0.	0.	0.	0.037970
67	Z Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Z Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Rx Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Rx Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Ry Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Ry Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Rz Min	0.118806	-1.06678	0.	0.	0.	-0.03797
67	Rz Max	-0.11881	1.066785	0.	0.	0.	0.037970
N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
69	X Min	-1.64683	-0.36233	-0.00725	0.077828	-0.21540	-0.01376
69	X Max	1.646833	0.362332	-0.00482	-0.07783	-0.14164	0.013755
69	Y Min	0.156391	-1.06678	-0.00725	0.235977	-0.21540	-0.03797
69	Y Max	-0.15639	1.066785	-0.00482	-0.23598	-0.14164	0.037970
69	Z Min	-1.64683	-0.36233	-0.00725	0.077828	-0.21540	-0.01376
69	Z Max	1.646833	0.362332	-0.00482	-0.07783	-0.14164	0.013755
69	Rx Min	-0.15639	1.066785	-0.00725	-0.23598	-0.21540	0.037970
69	Rx Max	0.156391	-1.06678	-0.00482	0.235977	-0.14164	-0.03797
69	Ry Min	-1.57656	0.329767	-0.00725	-0.06891	-0.21540	-0.00444
69	Ry Max	1.576556	-0.32977	-0.00482	0.068908	-0.14164	0.004441
69	Rz Min	0.156391	-1.06678	-0.00725	0.235977	-0.21540	-0.03797
69	Rz Max	-0.15639	1.066785	-0.00482	-0.23598	-0.14164	0.037970
N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
70	X Min	-1.58787	-0.36233	-0.84923	0.125877	-0.24279	-0.01376
70	X Max	1.587870	0.362332	-0.54237	0.080664	-0.15646	0.013755
70	Y Min	0.321214	-1.06678	-0.84923	0.125877	-0.24279	-0.03797
70	Y Max	-0.32121	1.066785	-0.54237	0.080664	-0.15646	0.037970
70	Z Min	-1.58787	-0.36233	-0.84923	0.125877	-0.24279	-0.01376
70	Z Max	1.587870	0.362332	-0.54237	0.080664	-0.15646	0.013755
70	Rx Min	1.587870	0.362332	-0.54237	0.080664	-0.15646	0.013755
70	Rx Max	-1.58787	-0.36233	-0.84923	0.125877	-0.24279	-0.01376
70	Ry Min	-0.33121	-0.73478	-0.84923	0.125877	-0.24279	0.035176
70	Ry Max	0.331206	0.734783	-0.54237	0.080664	-0.15646	-0.03518
70	Rz Min	0.321214	-1.06678	-0.84923	0.125877	-0.24279	-0.03797
70	Rz Max	-0.32121	1.066785	-0.54237	0.080664	-0.15646	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
72	X Min	-1.55257	-0.36233	-0.01785	0.077828	-0.25923	-0.01376
72	X Max	1.552573	0.362332	-0.01156	-0.07783	-0.16535	0.013755
72	Y Min	0.419879	-1.06678	-0.01785	0.235977	-0.25923	-0.03797
72	Y Max	-0.41988	1.066785	-0.01156	-0.23598	-0.16535	0.037970
72	Z Min	-1.55257	0.163142	-0.01785	-0.04120	-0.25923	-0.01376
72	Z Max	1.552573	-0.16314	-0.01156	0.041196	-0.16535	0.013755
72	Rx Min	-0.41988	1.066785	-0.01156	-0.23598	-0.16535	0.037970
72	Rx Max	0.419879	-1.06678	-0.01785	0.235977	-0.25923	-0.03797
72	Ry Min	-1.55257	0.163142	-0.01785	-0.04120	-0.25923	-0.01376
72	Ry Max	1.552573	-0.16314	-0.01156	0.041196	-0.16535	0.013755
72	Rz Min	0.419879	-1.06678	-0.01785	0.235977	-0.25923	-0.03797
72	Rz Max	-0.41988	1.066785	-0.01156	-0.23598	-0.16535	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
74	X Min	-1.66333	0.423832	-0.01278	-0.08806	-0.12640	0.017193
74	X Max	1.663333	-0.42383	-0.00840	0.088056	-0.08171	-0.01719
74	Y Min	0.750212	-1.06678	-0.01278	0.235977	-0.12640	-0.03797
74	Y Max	-0.75021	1.066785	-0.00840	-0.23598	-0.08171	0.037970
74	Z Min	-1.66333	0.423832	-0.01278	-0.08806	-0.12640	0.017193
74	Z Max	1.663333	-0.42383	-0.00840	0.088056	-0.08171	-0.01719
74	Rx Min	-0.75021	1.066785	-0.00840	-0.23598	-0.08171	0.037970
74	Rx Max	0.750212	-1.06678	-0.01278	0.235977	-0.12640	-0.03797
74	Ry Min	-1.49770	-0.19571	-0.01278	0.050116	-0.12640	-0.00444
74	Ry Max	1.497699	0.195707	-0.00840	-0.05012	-0.08171	0.004441
74	Rz Min	0.750212	-1.06678	-0.01278	0.235977	-0.12640	-0.03797
74	Rz Max	-0.75021	1.066785	-0.00840	-0.23598	-0.08171	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
75	X Min	-1.58787	-0.38967	0.	0.	0.	-0.01376
75	X Max	1.587870	0.389673	0.	0.	0.	0.013755
75	Y Min	0.321214	-1.14004	0.	0.	0.	-0.03797
75	Y Max	-0.32121	1.140039	0.	0.	0.	0.037970
75	Z Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Z Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Rx Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Rx Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Ry Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Ry Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Rz Min	0.321214	-1.14004	0.	0.	0.	-0.03797
75	Rz Max	-0.32121	1.140039	0.	0.	0.	0.037970

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
76	X Min	-1.55257	-0.38967	0.504968	0.077828	-0.21611	-0.01376
76	X Max	1.552573	0.389673	0.320906	-0.07783	-0.13721	0.013755
76	Y Min	0.419879	-1.14004	0.504968	0.235977	-0.21611	-0.03797
76	Y Max	-0.41988	1.140039	0.320906	-0.23598	-0.13721	0.037970
76	Z Min	0.423205	0.788737	0.320906	-0.16908	-0.13721	-0.03518
76	Z Max	-0.42321	-0.78874	0.504968	0.169081	-0.21611	0.035176
76	Rx Min	-0.41988	1.140039	0.320906	-0.23598	-0.13721	0.037970
76	Rx Max	0.419879	-1.14004	0.504968	0.235977	-0.21611	-0.03797
76	Ry Min	-0.42321	-0.78874	0.504968	0.169081	-0.21611	0.035176
76	Ry Max	0.423205	0.788737	0.320906	-0.16908	-0.13721	-0.03518
76	Rz Min	0.419879	-1.14004	0.504968	0.235977	-0.21611	-0.03797
76	Rz Max	-0.41988	1.140039	0.320906	-0.23598	-0.13721	0.037970

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N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
77	X Min	-1.66333	0.458973	0.201322	-0.08806	-0.07899	0.017193
77	X Max	1.663333	-0.45897	0.129281	0.088056	-0.05064	-0.01719
77	Y Min	0.750212	-1.14004	0.201322	0.235977	-0.07899	-0.03797
77	Y Max	-0.75021	1.140039	0.129281	-0.23598	-0.05064	0.037970
77	Z Min	1.663333	-0.45897	0.129281	0.088056	-0.05064	-0.01719
77	Z Max	-1.66333	0.458973	0.201322	-0.08806	-0.07899	0.017193
77	Rx Min	-0.75021	1.140039	0.129281	-0.23598	-0.05064	0.037970
77	Rx Max	0.750212	-1.14004	0.201322	0.235977	-0.07899	-0.03797
77	Ry Min	-1.43455	-0.38967	0.201322	0.077828	-0.07899	-0.01376
77	Ry Max	1.434546	0.389673	0.129281	-0.07783	-0.05064	0.013755
77	Rz Min	0.750212	-1.14004	0.201322	0.235977	-0.07899	-0.03797
77	Rz Max	-0.75021	1.140039	0.129281	-0.23598	-0.05064	0.037970
N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
78	X Min	-1.67350	0.458973	0.	0.	0.	0.017193
78	X Max	1.673504	-0.45897	0.	0.	0.	-0.01719
78	Y Min	0.773303	-1.14004	0.	0.	0.	-0.03797
78	Y Max	-0.77330	1.140039	0.	0.	0.	0.037970
78	Z Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Z Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Rx Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Rx Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Ry Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Ry Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Rz Min	0.773303	-1.14004	0.	0.	0.	-0.03797
78	Rz Max	-0.77330	1.140039	0.	0.	0.	0.037970

Massimi spostamenti rilevati per l'inviluppo ~SL18 SLD Sism. Orizz.

Spostamento lungo X: Nodo n°4 Valore -1.6735 cm
Spostamento lungo Y: Nodo n°1 Valore -1.14004 cm
Spostamento lungo Z: Nodo n°8 Valore -0.849232 cm
Rotazione attorno X: Nodo n°14 Valore 0.235977 °
Rotazione attorno Y: Nodo n°24 Valore -0.461131 °
Rotazione attorno Z: Nodo n°1 Valore -0.03797 °

Spostamenti assoluti derivati dall'Inviluppo ~SL18 SLE caratt.

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
1	X Min	-0.05054	0.005232	0.	0.	0.	-0.00026
1	X Max	0.050537	-0.00523	0.	0.	0.	0.000260
1	Y Min	-1.1e-13	-0.06303	0.	0.	0.	-3.4e-14
1	Y Max	1.09e-13	0.063030	0.	0.	0.	3.40e-14
1	Z Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Z Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Rx Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Rx Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Ry Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Ry Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Rz Min	-0.05054	0.005232	0.	0.	0.	-0.00026
1	Rz Max	0.050537	-0.00523	0.	0.	0.	0.000260
N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
2	X Min	-0.04986	0.005232	0.528717	-0.00077	0.226296	-0.00026

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2	X Max	0.049857	-0.00523	0.362468	0.000772	0.155026	0.000260
2	Y Min	-2.0e-14	-0.06303	0.528717	0.017474	0.226296	-3.4e-14
2	Y Max	1.98e-14	0.063030	0.362468	-0.01747	0.155026	3.40e-14
2	Z Min	-2.2e-18	-1.4e-17	0.362468	1.98e-14	0.155026	-2.8e-21
2	Z Max	-2.5e-18	-2.9e-17	0.599967	3.29e-14	0.256840	-4.2e-21
2	Rx Min	1.98e-14	0.063030	0.362468	-0.01747	0.155026	3.40e-14
2	Rx Max	-2.0e-14	-0.06303	0.528717	0.017474	0.226296	-3.4e-14
2	Ry Min	-2.2e-18	-1.4e-17	0.362468	1.98e-14	0.155026	-2.8e-21
2	Ry Max	-2.5e-18	-2.9e-17	0.599967	3.29e-14	0.256840	-4.2e-21
2	Rz Min	-0.04986	0.005232	0.528717	-0.00077	0.226296	-0.00026
2	Rz Max	0.049857	-0.00523	0.362468	0.000772	0.155026	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
3	X Min	-0.04759	0.005232	0.210617	-0.00077	0.082645	-0.00026
3	X Max	0.047592	-0.00523	0.145548	0.000772	0.057041	0.000260
3	Y Min	2.77e-13	-0.06303	0.210617	0.017474	0.082645	-3.4e-14
3	Y Max	-2.8e-13	0.063030	0.145548	-0.01747	0.057041	3.40e-14
3	Z Min	-2.1e-18	-1.4e-17	0.145548	-5.2e-16	0.057041	-2.8e-21
3	Z Max	-2.4e-18	-2.9e-17	0.238504	-5.2e-16	0.093619	-4.2e-21
3	Rx Min	-2.8e-13	0.063030	0.145548	-0.01747	0.057041	3.40e-14
3	Rx Max	2.77e-13	-0.06303	0.210617	0.017474	0.082645	-3.4e-14
3	Ry Min	-2.1e-18	-1.4e-17	0.145548	-5.2e-16	0.057041	-2.8e-21
3	Ry Max	-2.4e-18	-2.9e-17	0.238504	-5.2e-16	0.093619	-4.2e-21
3	Rz Min	-0.04759	0.005232	0.210617	-0.00077	0.082645	-0.00026
3	Rz Max	0.047592	-0.00523	0.145548	0.000772	0.057041	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
4	X Min	-0.04743	0.005232	0.	0.	0.	-0.00026
4	X Max	0.047434	-0.00523	0.	0.	0.	0.000260
4	Y Min	2.98e-13	-0.06303	0.	0.	0.	-3.4e-14
4	Y Max	-3.0e-13	0.063030	0.	0.	0.	3.40e-14
4	Z Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Z Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Rx Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Rx Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Ry Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Ry Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Rz Min	-0.04743	0.005232	0.	0.	0.	-0.00026
4	Rz Max	0.047434	-0.00523	0.	0.	0.	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
5	X Min	-0.05193	0.004643	0.	0.	0.	-0.00026
5	X Max	0.051927	-0.00464	0.	0.	0.	0.000260
5	Y Min	-2.9e-13	-0.06303	0.	0.	0.	-3.4e-14
5	Y Max	2.91e-13	0.063030	0.	0.	0.	3.40e-14
5	Z Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Z Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Rx Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Rx Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Ry Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Ry Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Rz Min	-0.05193	0.004643	0.	0.	0.	-0.00026
5	Rz Max	0.051927	-0.00464	0.	0.	0.	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
7	X Min	-0.05167	0.004643	-0.00757	-0.00077	0.224913	-0.00026
7	X Max	0.051669	-0.00464	-0.00537	0.000772	0.158293	0.000260

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7	Y Min	-2.6e-13	-0.06303	-0.00757	0.017474	0.224913	-3.4e-14
7	Y Max	2.57e-13	0.063030	-0.00537	-0.01747	0.158293	3.40e-14
7	Z Min	-2.5e-18	-2.9e-17	-0.00851	-2.0e-14	0.253465	-4.2e-21
7	Z Max	-2.2e-18	-1.4e-17	-0.00537	-1.4e-14	0.158293	-2.8e-21
7	Rx Min	2.57e-13	0.063030	-0.00757	-0.01747	0.224913	3.40e-14
7	Rx Max	-2.6e-13	-0.06303	-0.00537	0.017474	0.158293	-3.4e-14
7	Ry Min	-2.2e-18	-1.4e-17	-0.00537	-1.4e-14	0.158293	-2.8e-21
7	Ry Max	-2.5e-18	-2.9e-17	-0.00851	-2.0e-14	0.253465	-4.2e-21
7	Rz Min	-0.05167	0.004643	-0.00757	-0.00077	0.224913	-0.00026
7	Rz Max	0.051669	-0.00464	-0.00537	0.000772	0.158293	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
8	X Min	-0.05054	0.004643	-0.88883	0.131712	0.253930	-0.00026
8	X Max	0.050537	-0.00464	-0.61166	0.090874	0.175954	0.000260
8	Y Min	-1.1e-13	-0.06303	-0.88883	0.131712	0.253930	-3.4e-14
8	Y Max	1.09e-13	0.063030	-0.61166	0.090874	0.175954	3.40e-14
8	Z Min	-2.5e-18	-2.9e-17	-1.00761	0.149213	0.287348	-4.2e-21
8	Z Max	-2.2e-18	-1.4e-17	-0.61166	0.090874	0.175954	-2.8e-21
8	Rx Min	-2.2e-18	-1.4e-17	-0.61166	0.090874	0.175954	-2.8e-21
8	Rx Max	-2.5e-18	-2.9e-17	-1.00761	0.149213	0.287348	-4.2e-21
8	Ry Min	-2.2e-18	-1.4e-17	-0.61166	0.090874	0.175954	-2.8e-21
8	Ry Max	-2.5e-18	-2.9e-17	-1.00761	0.149213	0.287348	-4.2e-21
8	Rz Min	-0.05054	0.004643	-0.88883	0.131712	0.253930	-0.00026
8	Rz Max	0.050537	-0.00464	-0.61166	0.090874	0.175954	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
10	X Min	-0.04986	0.004643	-0.01866	-0.00077	0.271340	-0.00026
10	X Max	0.049857	-0.00464	-0.01298	0.000772	0.186551	0.000260
10	Y Min	-2.0e-14	-0.06303	-0.01866	0.017474	0.271340	-3.4e-14
10	Y Max	1.98e-14	0.063030	-0.01298	-0.01747	0.186551	3.40e-14
10	Z Min	-2.5e-18	-2.9e-17	-0.02110	3.29e-14	0.307678	-4.2e-21
10	Z Max	-2.2e-18	-1.4e-17	-0.01298	1.98e-14	0.186551	-2.8e-21
10	Rx Min	1.98e-14	0.063030	-0.01298	-0.01747	0.186551	3.40e-14
10	Rx Max	-2.0e-14	-0.06303	-0.01866	0.017474	0.271340	-3.4e-14
10	Ry Min	-2.2e-18	-1.4e-17	-0.01298	1.98e-14	0.186551	-2.8e-21
10	Ry Max	-2.5e-18	-2.9e-17	-0.02110	3.29e-14	0.307678	-4.2e-21
10	Rz Min	-0.04986	0.004643	-0.01866	-0.00077	0.271340	-0.00026
10	Rz Max	0.049857	-0.00464	-0.01298	0.000772	0.186551	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
12	X Min	-0.04759	0.004643	-0.01334	-0.00077	0.132171	-0.00026
12	X Max	0.047592	-0.00464	-0.00939	0.000772	0.091800	0.000260
12	Y Min	2.77e-13	-0.06303	-0.01334	0.017474	0.132171	-3.4e-14
12	Y Max	-2.8e-13	0.063030	-0.00939	-0.01747	0.091800	3.40e-14
12	Z Min	-2.4e-18	-2.9e-17	-0.01504	-5.2e-16	0.149473	-4.2e-21
12	Z Max	-2.1e-18	-1.4e-17	-0.00939	-5.2e-16	0.091800	-2.8e-21
12	Rx Min	-2.8e-13	0.063030	-0.00939	-0.01747	0.091800	3.40e-14
12	Rx Max	2.77e-13	-0.06303	-0.01334	0.017474	0.132171	-3.4e-14
12	Ry Min	-2.1e-18	-1.4e-17	-0.00939	-5.2e-16	0.091800	-2.8e-21
12	Ry Max	-2.4e-18	-2.9e-17	-0.01504	-5.2e-16	0.149473	-4.2e-21
12	Rz Min	-0.04759	0.004643	-0.01334	-0.00077	0.132171	-0.00026
12	Rz Max	0.047592	-0.00464	-0.00939	0.000772	0.091800	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
13	X Min	-0.05167	0.004024	-0.45217	-0.00077	0.111721	-0.00026
13	X Max	0.051669	-0.00402	-0.31815	0.000772	0.078576	0.000260
13	Y Min	-2.6e-13	-0.06303	-0.45217	0.017474	0.111721	-3.4e-14

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13	Y Max	2.57e-13	0.063030	-0.31815	-0.01747	0.078576	3.40e-14
13	Z Min	-2.5e-18	-2.9e-17	-0.50960	-2.0e-14	0.125926	-4.2e-21
13	Z Max	-2.2e-18	-1.4e-17	-0.31815	-1.4e-14	0.078576	-2.8e-21
13	Rx Min	2.57e-13	0.063030	-0.45217	-0.01747	0.111721	3.40e-14
13	Rx Max	-2.6e-13	-0.06303	-0.31815	0.017474	0.078576	-3.4e-14
13	Ry Min	-2.2e-18	-1.4e-17	-0.31815	-1.4e-14	0.078576	-2.8e-21
13	Ry Max	-2.5e-18	-2.9e-17	-0.50960	-2.0e-14	0.125926	-4.2e-21
13	Rz Min	-0.05167	0.004024	-0.45217	-0.00077	0.111721	-0.00026
13	Rz Max	0.051669	-0.00402	-0.31815	0.000772	0.078576	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
14	X Min	-0.04986	0.004024	-0.62127	-0.00077	0.167684	-0.00026
14	X Max	0.049857	-0.00402	-0.42814	0.000772	0.115723	0.000260
14	Y Min	-2.0e-14	-0.06303	-0.62127	0.017474	0.167684	-3.4e-14
14	Y Max	1.98e-14	0.063030	-0.42814	-0.01747	0.115723	3.40e-14
14	Z Min	-2.5e-18	-2.9e-17	-0.70404	3.31e-14	0.189953	-4.2e-21
14	Z Max	-2.2e-18	-1.4e-17	-0.42814	2.00e-14	0.115723	-2.8e-21
14	Rx Min	1.98e-14	0.063030	-0.42814	-0.01747	0.115723	3.40e-14
14	Rx Max	-2.0e-14	-0.06303	-0.62127	0.017474	0.167684	-3.4e-14
14	Ry Min	-2.2e-18	-1.4e-17	-0.42814	2.00e-14	0.115723	-2.8e-21
14	Ry Max	-2.5e-18	-2.9e-17	-0.70404	3.31e-14	0.189953	-4.2e-21
14	Rz Min	-0.04986	0.004024	-0.62127	-0.00077	0.167684	-0.00026
14	Rz Max	0.049857	-0.00402	-0.42814	0.000772	0.115723	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
15	X Min	-0.04759	0.004024	-0.34698	-0.00077	0.101967	-0.00026
15	X Max	0.047592	-0.00402	-0.24175	0.000772	0.071147	0.000260
15	Y Min	2.77e-13	-0.06303	-0.34698	0.017474	0.101967	-3.4e-14
15	Y Max	-2.8e-13	0.063030	-0.24175	-0.01747	0.071147	3.40e-14
15	Z Min	-2.4e-18	-2.9e-17	-0.39208	-3.4e-16	0.115176	-4.2e-21
15	Z Max	-2.1e-18	-1.4e-17	-0.24175	-3.5e-16	0.071147	-2.8e-21
15	Rx Min	-2.8e-13	0.063030	-0.24175	-0.01747	0.071147	3.40e-14
15	Rx Max	2.77e-13	-0.06303	-0.34698	0.017474	0.101967	-3.4e-14
15	Ry Min	-2.1e-18	-1.4e-17	-0.24175	-3.5e-16	0.071147	-2.8e-21
15	Ry Max	-2.4e-18	-2.9e-17	-0.39208	-3.4e-16	0.115176	-4.2e-21
15	Rz Min	-0.04759	0.004024	-0.34698	-0.00077	0.101967	-0.00026
15	Rz Max	0.047592	-0.00402	-0.24175	0.000772	0.071147	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
16	X Min	-0.05167	0.003405	-0.45430	-0.00077	-0.10993	-0.00026
16	X Max	0.051669	-0.00340	-0.31965	0.000772	-0.07732	0.000260
16	Y Min	-2.6e-13	-0.06303	-0.45430	0.017474	-0.10993	-3.4e-14
16	Y Max	2.57e-13	0.063030	-0.31965	-0.01747	-0.07732	3.40e-14
16	Z Min	-2.5e-18	-2.9e-17	-0.51201	-1.3e-14	-0.12391	-4.2e-21
16	Z Max	-2.2e-18	-1.4e-17	-0.31965	-9.1e-15	-0.07732	-2.8e-21
16	Rx Min	2.57e-13	0.063030	-0.45430	-0.01747	-0.10993	3.40e-14
16	Rx Max	-2.6e-13	-0.06303	-0.31965	0.017474	-0.07732	-3.4e-14
16	Ry Min	-2.5e-18	-2.9e-17	-0.51201	-1.3e-14	-0.12391	-4.2e-21
16	Ry Max	-2.2e-18	-1.4e-17	-0.31965	-9.1e-15	-0.07732	-2.8e-21
16	Rz Min	-0.05167	0.003405	-0.45430	-0.00077	-0.10993	-0.00026
16	Rz Max	0.051669	-0.00340	-0.31965	0.000772	-0.07732	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
17	X Min	-0.04986	0.003405	-0.64796	-0.00077	-0.15061	-0.00026
17	X Max	0.049857	-0.00340	-0.44685	0.000772	-0.10375	0.000260
17	Y Min	-2.0e-14	-0.06303	-0.64796	0.017474	-0.15061	-3.4e-14
17	Y Max	1.98e-14	0.063030	-0.44685	-0.01747	-0.10375	3.40e-14

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17	Z Min	-2.5e-18	-2.9e-17	-0.73414	2.21e-14	-0.17069	-4.2e-21
17	Z Max	-2.2e-18	-1.4e-17	-0.44685	1.34e-14	-0.10375	-2.8e-21
17	Rx Min	1.98e-14	0.063030	-0.44685	-0.01747	-0.10375	3.40e-14
17	Rx Max	-2.0e-14	-0.06303	-0.64796	0.017474	-0.15061	-3.4e-14
17	Ry Min	-2.5e-18	-2.9e-17	-0.73414	2.21e-14	-0.17069	-4.2e-21
17	Ry Max	-2.2e-18	-1.4e-17	-0.44685	1.34e-14	-0.10375	-2.8e-21
17	Rz Min	-0.04986	0.003405	-0.64796	-0.00077	-0.15061	-0.00026
17	Rz Max	0.049857	-0.00340	-0.44685	0.000772	-0.10375	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
18	X Min	-0.04759	0.003405	-0.37644	-0.00077	-0.08336	-0.00026
18	X Max	0.047592	-0.00340	-0.26250	0.000772	-0.05804	0.000260
18	Y Min	2.77e-13	-0.06303	-0.37644	0.017474	-0.08336	-3.4e-14
18	Y Max	-2.8e-13	0.063030	-0.26250	-0.01747	-0.05804	3.40e-14
18	Z Min	-2.4e-18	-2.9e-17	-0.42527	-1.7e-16	-0.09421	-4.2e-21
18	Z Max	-2.1e-18	-1.4e-17	-0.26250	-1.7e-16	-0.05804	-2.8e-21
18	Rx Min	-2.8e-13	0.063030	-0.26250	-0.01747	-0.05804	3.40e-14
18	Rx Max	2.77e-13	-0.06303	-0.37644	0.017474	-0.08336	-3.4e-14
18	Ry Min	-2.4e-18	-2.9e-17	-0.42527	-1.7e-16	-0.09421	-4.2e-21
18	Ry Max	-2.1e-18	-1.4e-17	-0.26250	-1.7e-16	-0.05804	-2.8e-21
18	Rz Min	-0.04759	0.003405	-0.37644	-0.00077	-0.08336	-0.00026
18	Rz Max	0.047592	-0.00340	-0.26250	0.000772	-0.05804	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
20	X Min	-0.05167	0.002786	-0.01399	-0.00077	-0.01432	-0.00026
20	X Max	0.051669	-0.00279	-0.00988	0.000772	0.014324	0.000260
20	Y Min	-2.6e-13	-0.06303	-0.01399	0.017474	-7.1e-14	-3.4e-14
20	Y Max	2.57e-13	0.063030	-0.00988	-0.01747	7.13e-14	3.40e-14
20	Z Min	-2.5e-18	-2.9e-17	-0.01575	-1.4e-17	-8.9e-19	-4.2e-21
20	Z Max	-2.2e-18	-1.4e-17	-0.00988	-1.1e-17	-8.1e-19	-2.8e-21
20	Rx Min	2.57e-13	0.063030	-0.01399	-0.01747	7.13e-14	3.40e-14
20	Rx Max	-2.6e-13	-0.06303	-0.00988	0.017474	-7.1e-14	-3.4e-14
20	Ry Min	-0.05167	0.002786	-0.01399	-0.00077	-0.01432	-0.00026
20	Ry Max	0.051669	-0.00279	-0.00988	0.000772	0.014324	0.000260
20	Rz Min	-0.05167	0.002786	-0.01399	-0.00077	-0.01432	-0.00026
20	Rz Max	0.051669	-0.00279	-0.00988	0.000772	0.014324	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
22	X Min	-0.04986	0.002786	-0.02278	-0.00077	-0.01382	-0.00026
22	X Max	0.049857	-0.00279	-0.01578	0.000772	0.013822	0.000260
22	Y Min	-2.0e-14	-0.06303	-0.02278	0.017474	-5.5e-15	-3.4e-14
22	Y Max	1.98e-14	0.063030	-0.01578	-0.01747	5.48e-15	3.40e-14
22	Z Min	-2.5e-18	-2.9e-17	-0.02578	4.35e-17	-8.8e-19	-4.2e-21
22	Z Max	-2.2e-18	-1.4e-17	-0.01578	2.55e-17	-8.0e-19	-2.8e-21
22	Rx Min	1.98e-14	0.063030	-0.01578	-0.01747	5.48e-15	3.40e-14
22	Rx Max	-2.0e-14	-0.06303	-0.02278	0.017474	-5.5e-15	-3.4e-14
22	Ry Min	-0.04986	0.002786	-0.02278	-0.00077	-0.01382	-0.00026
22	Ry Max	0.049857	-0.00279	-0.01578	0.000772	0.013822	0.000260
22	Rz Min	-0.04986	0.002786	-0.02278	-0.00077	-0.01382	-0.00026
22	Rz Max	0.049857	-0.00279	-0.01578	0.000772	0.013822	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
24	X Min	-0.04759	0.002786	-0.01450	-0.00077	-0.01319	-0.00026
24	X Max	0.047592	-0.00279	-0.01017	0.000772	0.013194	0.000260
24	Y Min	2.77e-13	-0.06303	-0.01450	0.017474	7.67e-14	-3.4e-14
24	Y Max	-2.8e-13	0.063030	-0.01017	-0.01747	-7.7e-14	3.40e-14
24	Z Min	-2.4e-18	-2.9e-17	-0.01635	7.70e-18	-8.7e-19	-4.2e-21

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24	Z Max	-2.1e-18	-1.4e-17	-0.01017	3.62e-18	-8.0e-19	-2.8e-21
24	Rx Min	-2.8e-13	0.063030	-0.01017	-0.01747	-7.7e-14	3.40e-14
24	Rx Max	2.77e-13	-0.06303	-0.01450	0.017474	7.67e-14	-3.4e-14
24	Ry Min	-0.04759	0.002786	-0.01450	-0.00077	-0.01319	-0.00026
24	Ry Max	0.047592	-0.00279	-0.01017	0.000772	0.013194	0.000260
24	Rz Min	-0.04759	0.002786	-0.01450	-0.00077	-0.01319	-0.00026
24	Rz Max	0.047592	-0.00279	-0.01017	0.000772	0.013194	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
25	X Min	-0.05167	0.002167	-0.45644	-0.00060	0.110825	-0.00026
25	X Max	0.051669	-0.00217	-0.32115	0.000601	0.077947	0.000260
25	Y Min	-2.6e-13	-0.06303	-0.45644	0.017474	0.110825	-3.4e-14
25	Y Max	2.57e-13	0.063030	-0.32115	-0.01747	0.077947	3.40e-14
25	Z Min	-2.5e-18	-2.9e-17	-0.51442	-6.7e-15	0.124916	-4.2e-21
25	Z Max	-2.2e-18	-1.4e-17	-0.32115	-4.5e-15	0.077947	-2.8e-21
25	Rx Min	2.57e-13	0.063030	-0.45644	-0.01747	0.110825	3.40e-14
25	Rx Max	-2.6e-13	-0.06303	-0.32115	0.017474	0.077947	-3.4e-14
25	Ry Min	-2.2e-18	-1.4e-17	-0.32115	-4.5e-15	0.077947	-2.8e-21
25	Ry Max	-2.5e-18	-2.9e-17	-0.51442	-6.7e-15	0.124916	-4.2e-21
25	Rz Min	-0.05167	0.002167	-0.45644	-0.00060	0.110825	-0.00026
25	Rz Max	0.051669	-0.00217	-0.32115	0.000601	0.077947	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
26	X Min	-0.04986	0.002167	-0.75083	-0.00060	0.183123	-0.00026
26	X Max	0.049857	-0.00217	-0.51908	0.000601	0.126579	0.000260
26	Y Min	-2.0e-14	-0.06303	-0.75083	0.017474	0.183123	-3.4e-14
26	Y Max	1.98e-14	0.063030	-0.51908	-0.01747	0.126579	3.40e-14
26	Z Min	-2.5e-18	-2.9e-17	-0.85015	1.12e-14	0.207356	-4.2e-21
26	Z Max	-2.2e-18	-1.4e-17	-0.51908	6.81e-15	0.126579	-2.8e-21
26	Rx Min	1.98e-14	0.063030	-0.51908	-0.01747	0.126579	3.40e-14
26	Rx Max	-2.0e-14	-0.06303	-0.75083	0.017474	0.183123	-3.4e-14
26	Ry Min	-2.2e-18	-1.4e-17	-0.51908	6.81e-15	0.126579	-2.8e-21
26	Ry Max	-2.5e-18	-2.9e-17	-0.85015	1.12e-14	0.207356	-4.2e-21
26	Rz Min	-0.04986	0.002167	-0.75083	-0.00060	0.183123	-0.00026
26	Rz Max	0.049857	-0.00217	-0.51908	0.000601	0.126579	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
27	X Min	-0.04759	0.002167	-0.49339	-0.00060	0.120199	-0.00026
27	X Max	0.047592	-0.00217	-0.34493	0.000601	0.084003	0.000260
27	Y Min	2.77e-13	-0.06303	-0.49339	0.017474	0.120199	-3.4e-14
27	Y Max	-2.8e-13	0.063030	-0.34493	-0.01747	0.084003	3.40e-14
27	Z Min	-2.4e-18	-2.9e-17	-0.55701	7.75e-18	0.135711	-4.2e-21
27	Z Max	-2.1e-18	-1.4e-17	-0.34493	3.67e-18	0.084003	-2.8e-21
27	Rx Min	-2.8e-13	0.063030	-0.34493	-0.01747	0.084003	3.40e-14
27	Rx Max	2.77e-13	-0.06303	-0.49339	0.017474	0.120199	-3.4e-14
27	Ry Min	-2.1e-18	-1.4e-17	-0.34493	3.67e-18	0.084003	-2.8e-21
27	Ry Max	-2.4e-18	-2.9e-17	-0.55701	7.75e-18	0.135711	-4.2e-21
27	Rz Min	-0.04759	0.002167	-0.49339	-0.00060	0.120199	-0.00026
27	Rz Max	0.047592	-0.00217	-0.34493	0.000601	0.084003	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
28	X Min	-0.05167	0.001548	-0.45644	-0.00043	-0.11083	-0.00026
28	X Max	0.051669	-0.00155	-0.32115	0.000429	-0.07795	0.000260
28	Y Min	-2.6e-13	-0.06303	-0.45644	0.017474	-0.11083	-3.4e-14
28	Y Max	2.57e-13	0.063030	-0.32115	-0.01747	-0.07795	3.40e-14
28	Z Min	-2.5e-18	-2.9e-17	-0.51442	-6.7e-15	-0.12492	-4.2e-21
28	Z Max	-2.2e-18	-1.4e-17	-0.32115	-4.5e-15	-0.07795	-2.8e-21

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28	Rx Min	2.57e-13	0.063030	-0.45644	-0.01747	-0.11083	3.40e-14
28	Rx Max	-2.6e-13	-0.06303	-0.32115	0.017474	-0.07795	-3.4e-14
28	Ry Min	-2.5e-18	-2.9e-17	-0.51442	-6.7e-15	-0.12492	-4.2e-21
28	Ry Max	-2.2e-18	-1.4e-17	-0.32115	-4.5e-15	-0.07795	-2.8e-21
28	Rz Min	-0.05167	0.001548	-0.45644	-0.00043	-0.11083	-0.00026
28	Rz Max	0.051669	-0.00155	-0.32115	0.000429	-0.07795	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
29	X Min	-0.04986	0.001548	-0.75105	-0.00043	-0.18293	-0.00026
29	X Max	0.049857	-0.00155	-0.51924	0.000429	-0.12645	0.000260
29	Y Min	-2.0e-14	-0.06303	-0.75105	0.017474	-0.18293	-3.4e-14
29	Y Max	1.98e-14	0.063030	-0.51924	-0.01747	-0.12645	3.40e-14
29	Z Min	-2.5e-18	-2.9e-17	-0.85040	1.12e-14	-0.20714	-4.2e-21
29	Z Max	-2.2e-18	-1.4e-17	-0.51924	6.80e-15	-0.12645	-2.8e-21
29	Rx Min	1.98e-14	0.063030	-0.51924	-0.01747	-0.12645	3.40e-14
29	Rx Max	-2.0e-14	-0.06303	-0.75105	0.017474	-0.18293	-3.4e-14
29	Ry Min	-2.5e-18	-2.9e-17	-0.85040	1.12e-14	-0.20714	-4.2e-21
29	Ry Max	-2.2e-18	-1.4e-17	-0.51924	6.80e-15	-0.12645	-2.8e-21
29	Rz Min	-0.04986	0.001548	-0.75105	-0.00043	-0.18293	-0.00026
29	Rz Max	0.049857	-0.00155	-0.51924	0.000429	-0.12645	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
30	X Min	-0.04759	0.001548	-0.49365	-0.00043	-0.11998	-0.00026
30	X Max	0.047592	-0.00155	-0.34511	0.000429	-0.08385	0.000260
30	Y Min	2.77e-13	-0.06303	-0.49365	0.017474	-0.11998	-3.4e-14
30	Y Max	-2.8e-13	0.063030	-0.34511	-0.01747	-0.08385	3.40e-14
30	Z Min	-2.4e-18	-2.9e-17	-0.55731	7.80e-18	-0.13547	-4.2e-21
30	Z Max	-2.1e-18	-1.4e-17	-0.34511	3.72e-18	-0.08385	-2.8e-21
30	Rx Min	-2.8e-13	0.063030	-0.34511	-0.01747	-0.08385	3.40e-14
30	Rx Max	2.77e-13	-0.06303	-0.49365	0.017474	-0.11998	-3.4e-14
30	Ry Min	-2.4e-18	-2.9e-17	-0.55731	7.80e-18	-0.13547	-4.2e-21
30	Ry Max	-2.1e-18	-1.4e-17	-0.34511	3.72e-18	-0.08385	-2.8e-21
30	Rz Min	-0.04759	0.001548	-0.49365	-0.00043	-0.11998	-0.00026
30	Rz Max	0.047592	-0.00155	-0.34511	0.000429	-0.08385	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
32	X Min	-0.05167	0.000929	-0.01399	-0.00026	-0.01432	-0.00026
32	X Max	0.051669	-0.00093	-0.00988	0.000257	0.014324	0.000260
32	Y Min	-2.6e-13	-0.06303	-0.01399	0.017474	-7.1e-14	-3.4e-14
32	Y Max	2.57e-13	0.063030	-0.00988	-0.01747	7.13e-14	3.40e-14
32	Z Min	-2.5e-18	-2.9e-17	-0.01575	-8.2e-18	-8.9e-19	-4.2e-21
32	Z Max	-2.2e-18	-1.4e-17	-0.00988	-7.1e-18	-8.1e-19	-2.8e-21
32	Rx Min	2.57e-13	0.063030	-0.01399	-0.01747	7.13e-14	3.40e-14
32	Rx Max	-2.6e-13	-0.06303	-0.00988	0.017474	-7.1e-14	-3.4e-14
32	Ry Min	-0.05167	0.000929	-0.01399	-0.00026	-0.01432	-0.00026
32	Ry Max	0.051669	-0.00093	-0.00988	0.000257	0.014324	0.000260
32	Rz Min	-0.05167	0.000929	-0.01399	-0.00026	-0.01432	-0.00026
32	Rz Max	0.051669	-0.00093	-0.00988	0.000257	0.014324	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
34	X Min	-0.04986	0.000929	-0.02345	-0.00026	-0.01382	-0.00026
34	X Max	0.049857	-0.00093	-0.01626	0.000257	0.013822	0.000260
34	Y Min	-2.0e-14	-0.06303	-0.02345	0.017474	-5.5e-15	-3.4e-14
34	Y Max	1.98e-14	0.063030	-0.01626	-0.01747	5.48e-15	3.40e-14
34	Z Min	-2.5e-18	-2.9e-17	-0.02654	3.47e-17	-8.8e-19	-4.2e-21
34	Z Max	-2.2e-18	-1.4e-17	-0.01626	2.02e-17	-8.0e-19	-2.8e-21
34	Rx Min	1.98e-14	0.063030	-0.01626	-0.01747	5.48e-15	3.40e-14

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34	Rx Max	-2.0e-14	-0.06303	-0.02345	0.017474	-5.5e-15	-3.4e-14
34	Ry Min	-0.04986	0.000929	-0.02345	-0.00026	-0.01382	-0.00026
34	Ry Max	0.049857	-0.00093	-0.01626	0.000257	0.013822	0.000260
34	Rz Min	-0.04986	0.000929	-0.02345	-0.00026	-0.01382	-0.00026
34	Rz Max	0.049857	-0.00093	-0.01626	0.000257	0.013822	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
36	X Min	-0.04759	0.000929	-0.01527	-0.00026	-0.01319	-0.00026
36	X Max	0.047592	-0.00093	-0.01071	0.000257	0.013194	0.000260
36	Y Min	2.77e-13	-0.06303	-0.01527	0.017474	7.67e-14	-3.4e-14
36	Y Max	-2.8e-13	0.063030	-0.01071	-0.01747	-7.7e-14	3.40e-14
36	Z Min	-2.4e-18	-2.9e-17	-0.01722	7.85e-18	-8.7e-19	-4.2e-21
36	Z Max	-2.1e-18	-1.4e-17	-0.01071	3.77e-18	-8.0e-19	-2.8e-21
36	Rx Min	-2.8e-13	0.063030	-0.01071	-0.01747	-7.7e-14	3.40e-14
36	Rx Max	2.77e-13	-0.06303	-0.01527	0.017474	7.67e-14	-3.4e-14
36	Ry Min	-0.04759	0.000929	-0.01527	-0.00026	-0.01319	-0.00026
36	Ry Max	0.047592	-0.00093	-0.01071	0.000257	0.013194	0.000260
36	Rz Min	-0.04759	0.000929	-0.01527	-0.00026	-0.01319	-0.00026
36	Rz Max	0.047592	-0.00093	-0.01071	0.000257	0.013194	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
37	X Min	-0.05167	0.000310	-0.45644	-8.6e-05	0.110825	-0.00026
37	X Max	0.051669	-0.00031	-0.32115	8.58e-05	0.077947	0.000260
37	Y Min	-2.6e-13	-0.06303	-0.45644	0.017474	0.110825	-3.4e-14
37	Y Max	2.57e-13	0.063030	-0.32115	-0.01747	0.077947	3.40e-14
37	Z Min	-2.5e-18	-2.9e-17	-0.51442	-6.7e-15	0.124915	-4.2e-21
37	Z Max	-2.2e-18	-1.4e-17	-0.32115	-4.5e-15	0.077947	-2.8e-21
37	Rx Min	2.57e-13	0.063030	-0.45644	-0.01747	0.110825	3.40e-14
37	Rx Max	-2.6e-13	-0.06303	-0.32115	0.017474	0.077947	-3.4e-14
37	Ry Min	-2.2e-18	-1.4e-17	-0.32115	-4.5e-15	0.077947	-2.8e-21
37	Ry Max	-2.5e-18	-2.9e-17	-0.51442	-6.7e-15	0.124915	-4.2e-21
37	Rz Min	-0.05167	0.000310	-0.45644	-8.6e-05	0.110825	-0.00026
37	Rz Max	0.051669	-0.00031	-0.32115	8.58e-05	0.077947	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
38	X Min	-0.04986	0.000310	-0.75128	-8.6e-05	0.183028	-0.00026
38	X Max	0.049857	-0.00031	-0.51940	8.58e-05	0.126513	0.000260
38	Y Min	-2.0e-14	-0.06303	-0.75128	0.017474	0.183028	-3.4e-14
38	Y Max	1.98e-14	0.063030	-0.51940	-0.01747	0.126513	3.40e-14
38	Z Min	-2.5e-18	-2.9e-17	-0.85065	1.12e-14	0.207249	-4.2e-21
38	Z Max	-2.2e-18	-1.4e-17	-0.51940	6.80e-15	0.126513	-2.8e-21
38	Rx Min	1.98e-14	0.063030	-0.51940	-0.01747	0.126513	3.40e-14
38	Rx Max	-2.0e-14	-0.06303	-0.75128	0.017474	0.183028	-3.4e-14
38	Ry Min	-2.2e-18	-1.4e-17	-0.51940	6.80e-15	0.126513	-2.8e-21
38	Ry Max	-2.5e-18	-2.9e-17	-0.85065	1.12e-14	0.207249	-4.2e-21
38	Rz Min	-0.04986	0.000310	-0.75128	-8.6e-05	0.183028	-0.00026
38	Rz Max	0.049857	-0.00031	-0.51940	8.58e-05	0.126513	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
39	X Min	-0.04759	0.000310	-0.49391	-8.6e-05	0.120090	-0.00026
39	X Max	0.047592	-0.00031	-0.34529	8.58e-05	0.083927	0.000260
39	Y Min	2.77e-13	-0.06303	-0.49391	0.017474	0.120090	-3.4e-14
39	Y Max	-2.8e-13	0.063030	-0.34529	-0.01747	0.083927	3.40e-14
39	Z Min	-2.4e-18	-2.9e-17	-0.55760	7.85e-18	0.135589	-4.2e-21
39	Z Max	-2.1e-18	-1.4e-17	-0.34529	3.77e-18	0.083927	-2.8e-21
39	Rx Min	-2.8e-13	0.063030	-0.34529	-0.01747	0.083927	3.40e-14
39	Rx Max	2.77e-13	-0.06303	-0.49391	0.017474	0.120090	-3.4e-14

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39	Ry Min	-2.1e-18	-1.4e-17	-0.34529	3.77e-18	0.083927	-2.8e-21
39	Ry Max	-2.4e-18	-2.9e-17	-0.55760	7.85e-18	0.135589	-4.2e-21
39	Rz Min	-0.04759	0.000310	-0.49391	-8.6e-05	0.120090	-0.00026
39	Rz Max	0.047592	-0.00031	-0.34529	8.58e-05	0.083927	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
40	X Min	-0.05167	-0.00031	-0.45644	8.58e-05	-0.11083	-0.00026
40	X Max	0.051669	0.000310	-0.32115	-8.6e-05	-0.07795	0.000260
40	Y Min	-2.6e-13	-0.06303	-0.45644	0.017474	-0.11083	-3.4e-14
40	Y Max	2.57e-13	0.063030	-0.32115	-0.01747	-0.07795	3.40e-14
40	Z Min	-2.5e-18	-2.9e-17	-0.51442	-6.7e-15	-0.12492	-4.2e-21
40	Z Max	-2.2e-18	-1.4e-17	-0.32115	-4.5e-15	-0.07795	-2.8e-21
40	Rx Min	2.57e-13	0.063030	-0.45644	-0.01747	-0.11083	3.40e-14
40	Rx Max	-2.6e-13	-0.06303	-0.32115	0.017474	-0.07795	-3.4e-14
40	Ry Min	-2.5e-18	-2.9e-17	-0.51442	-6.7e-15	-0.12492	-4.2e-21
40	Ry Max	-2.2e-18	-1.4e-17	-0.32115	-4.5e-15	-0.07795	-2.8e-21
40	Rz Min	-0.05167	-0.00031	-0.45644	8.58e-05	-0.11083	-0.00026
40	Rz Max	0.051669	0.000310	-0.32115	-8.6e-05	-0.07795	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
41	X Min	-0.04986	-0.00031	-0.75128	8.58e-05	-0.18303	-0.00026
41	X Max	0.049857	0.000310	-0.51940	-8.6e-05	-0.12651	0.000260
41	Y Min	-2.0e-14	-0.06303	-0.75128	0.017474	-0.18303	-3.4e-14
41	Y Max	1.98e-14	0.063030	-0.51940	-0.01747	-0.12651	3.40e-14
41	Z Min	-2.5e-18	-2.9e-17	-0.85065	1.12e-14	-0.20725	-4.2e-21
41	Z Max	-2.2e-18	-1.4e-17	-0.51940	6.80e-15	-0.12651	-2.8e-21
41	Rx Min	1.98e-14	0.063030	-0.51940	-0.01747	-0.12651	3.40e-14
41	Rx Max	-2.0e-14	-0.06303	-0.75128	0.017474	-0.18303	-3.4e-14
41	Ry Min	-2.5e-18	-2.9e-17	-0.85065	1.12e-14	-0.20725	-4.2e-21
41	Ry Max	-2.2e-18	-1.4e-17	-0.51940	6.80e-15	-0.12651	-2.8e-21
41	Rz Min	-0.04986	-0.00031	-0.75128	8.58e-05	-0.18303	-0.00026
41	Rz Max	0.049857	0.000310	-0.51940	-8.6e-05	-0.12651	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
42	X Min	-0.04759	-0.00031	-0.49390	8.58e-05	-0.12009	-0.00026
42	X Max	0.047592	0.000310	-0.34529	-8.6e-05	-0.08393	0.000260
42	Y Min	-2.77e-13	-0.06303	-0.49390	0.017474	-0.12009	-3.4e-14
42	Y Max	2.8e-13	0.063030	-0.34529	-0.01747	-0.08393	3.40e-14
42	Z Min	-2.4e-18	-2.9e-17	-0.55760	7.85e-18	-0.13559	-4.2e-21
42	Z Max	-2.1e-18	-1.4e-17	-0.34529	3.77e-18	-0.08393	-2.8e-21
42	Rx Min	-2.8e-13	0.063030	-0.34529	-0.01747	-0.08393	3.40e-14
42	Rx Max	2.77e-13	-0.06303	-0.49390	0.017474	-0.12009	-3.4e-14
42	Ry Min	-2.4e-18	-2.9e-17	-0.55760	7.85e-18	-0.13559	-4.2e-21
42	Ry Max	-2.1e-18	-1.4e-17	-0.34529	3.77e-18	-0.08393	-2.8e-21
42	Rz Min	-0.04759	-0.00031	-0.49390	8.58e-05	-0.12009	-0.00026
42	Rz Max	0.047592	0.000310	-0.34529	-8.6e-05	-0.08393	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
44	X Min	-0.05167	-0.00093	-0.01399	0.000257	-0.01432	-0.00026
44	X Max	0.051669	0.000929	-0.00988	-0.00026	0.014324	0.000260
44	Y Min	-2.6e-13	-0.06303	-0.01399	0.017474	-7.1e-14	-3.4e-14
44	Y Max	2.57e-13	0.063030	-0.00988	-0.01747	7.13e-14	3.40e-14
44	Z Min	-2.5e-18	-2.9e-17	-0.01575	-8.2e-18	-1.9e-18	-4.2e-21
44	Z Max	-2.2e-18	-1.4e-17	-0.00988	-7.1e-18	-1.5e-18	-2.8e-21
44	Rx Min	2.57e-13	0.063030	-0.01399	-0.01747	7.13e-14	3.40e-14
44	Rx Max	-2.6e-13	-0.06303	-0.00988	0.017474	-7.1e-14	-3.4e-14
44	Ry Min	-0.05167	-0.00093	-0.01399	0.000257	-0.01432	-0.00026

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44	Ry Max	0.051669	0.000929	-0.00988	-0.00026	0.014324	0.000260
44	Rz Min	-0.05167	-0.00093	-0.01399	0.000257	-0.01432	-0.00026
44	Rz Max	0.051669	0.000929	-0.00988	-0.00026	0.014324	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
46	X Min	-0.04986	-0.00093	-0.02345	0.000257	-0.01382	-0.00026
46	X Max	0.049857	0.000929	-0.01626	-0.00026	0.013822	0.000260
46	Y Min	-2.0e-14	-0.06303	-0.02345	0.017474	-5.5e-15	-3.4e-14
46	Y Max	1.98e-14	0.063030	-0.01626	-0.01747	5.48e-15	3.40e-14
46	Z Min	-2.5e-18	-2.9e-17	-0.02654	3.47e-17	-9.6e-19	-4.2e-21
46	Z Max	-2.2e-18	-1.4e-17	-0.01626	2.02e-17	-8.8e-19	-2.8e-21
46	Rx Min	1.98e-14	0.063030	-0.01626	-0.01747	5.48e-15	3.40e-14
46	Rx Max	-2.0e-14	-0.06303	-0.02345	0.017474	-5.5e-15	-3.4e-14
46	Ry Min	-0.04986	-0.00093	-0.02345	0.000257	-0.01382	-0.00026
46	Ry Max	0.049857	0.000929	-0.01626	-0.00026	0.013822	0.000260
46	Rz Min	-0.04986	-0.00093	-0.02345	0.000257	-0.01382	-0.00026
46	Rz Max	0.049857	0.000929	-0.01626	-0.00026	0.013822	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
48	X Min	-0.04759	-0.00093	-0.01527	0.000257	-0.01319	-0.00026
48	X Max	0.047592	0.000929	-0.01071	-0.00026	0.013194	0.000260
48	Y Min	2.77e-13	-0.06303	-0.01527	0.017474	7.67e-14	-3.4e-14
48	Y Max	-2.8e-13	0.063030	-0.01071	-0.01747	-7.7e-14	3.40e-14
48	Z Min	-2.4e-18	-2.9e-17	-0.01722	7.85e-18	-1.4e-18	-4.2e-21
48	Z Max	-2.1e-18	-1.4e-17	-0.01071	3.77e-18	-1.2e-18	-2.8e-21
48	Rx Min	-2.8e-13	0.063030	-0.01071	-0.01747	-7.7e-14	3.40e-14
48	Rx Max	2.77e-13	-0.06303	-0.01527	0.017474	7.67e-14	-3.4e-14
48	Ry Min	-0.04759	-0.00093	-0.01527	0.000257	-0.01319	-0.00026
48	Ry Max	0.047592	0.000929	-0.01071	-0.00026	0.013194	0.000260
48	Rz Min	-0.04759	-0.00093	-0.01527	0.000257	-0.01319	-0.00026
48	Rz Max	0.047592	0.000929	-0.01071	-0.00026	0.013194	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
49	X Min	-0.05167	-0.00155	-0.45644	0.000429	0.110825	-0.00026
49	X Max	0.051669	0.001548	-0.32115	-0.00043	0.077947	0.000260
49	Y Min	-2.6e-13	-0.06303	-0.45644	0.017474	0.110825	-3.4e-14
49	Y Max	2.57e-13	0.063030	-0.32115	-0.01747	0.077947	3.40e-14
49	Z Min	-2.5e-18	-2.9e-17	-0.51442	-6.7e-15	0.124915	-4.2e-21
49	Z Max	-2.2e-18	-1.4e-17	-0.32115	-4.5e-15	0.077947	-2.8e-21
49	Rx Min	2.57e-13	0.063030	-0.45644	-0.01747	0.110825	3.40e-14
49	Rx Max	-2.6e-13	-0.06303	-0.32115	0.017474	0.077947	-3.4e-14
49	Ry Min	-2.2e-18	-1.4e-17	-0.32115	-4.5e-15	0.077947	-2.8e-21
49	Ry Max	-2.5e-18	-2.9e-17	-0.51442	-6.7e-15	0.124915	-4.2e-21
49	Rz Min	-0.05167	-0.00155	-0.45644	0.000429	0.110825	-0.00026
49	Rz Max	0.051669	0.001548	-0.32115	-0.00043	0.077947	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
50	X Min	-0.04986	-0.00155	-0.75105	0.000429	0.182933	-0.00026
50	X Max	0.049857	0.001548	-0.51924	-0.00043	0.126446	0.000260
50	Y Min	-2.0e-14	-0.06303	-0.75105	0.017474	0.182933	-3.4e-14
50	Y Max	1.98e-14	0.063030	-0.51924	-0.01747	0.126446	3.40e-14
50	Z Min	-2.5e-18	-2.9e-17	-0.85040	1.12e-14	0.207142	-4.2e-21
50	Z Max	-2.2e-18	-1.4e-17	-0.51924	6.80e-15	0.126446	-2.8e-21
50	Rx Min	1.98e-14	0.063030	-0.51924	-0.01747	0.126446	3.40e-14
50	Rx Max	-2.0e-14	-0.06303	-0.75105	0.017474	0.182933	-3.4e-14
50	Ry Min	-2.2e-18	-1.4e-17	-0.51924	6.80e-15	0.126446	-2.8e-21
50	Ry Max	-2.5e-18	-2.9e-17	-0.85040	1.12e-14	0.207142	-4.2e-21

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50	Rz Min	-0.04986	-0.00155	-0.75105	0.000429	0.182933	-0.00026
50	Rz Max	0.049857	0.001548	-0.51924	-0.00043	0.126446	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
51	X Min	-0.04759	-0.00155	-0.49365	0.000429	0.119982	-0.00026
51	X Max	0.047592	0.001548	-0.34511	-0.00043	0.083850	0.000260
51	Y Min	2.77e-13	-0.06303	-0.49365	0.017474	0.119982	-3.4e-14
51	Y Max	-2.8e-13	0.063030	-0.34511	-0.01747	0.083850	3.40e-14
51	Z Min	-2.4e-18	-2.9e-17	-0.55731	7.81e-18	0.135467	-4.2e-21
51	Z Max	-2.1e-18	-1.4e-17	-0.34511	3.73e-18	0.083850	-2.8e-21
51	Rx Min	-2.8e-13	0.063030	-0.34511	-0.01747	0.083850	3.40e-14
51	Rx Max	2.77e-13	-0.06303	-0.49365	0.017474	0.119982	-3.4e-14
51	Ry Min	-2.1e-18	-1.4e-17	-0.34511	3.73e-18	0.083850	-2.8e-21
51	Ry Max	-2.4e-18	-2.9e-17	-0.55731	7.81e-18	0.135467	-4.2e-21
51	Rz Min	-0.04759	-0.00155	-0.49365	0.000429	0.119982	-0.00026
51	Rz Max	0.047592	0.001548	-0.34511	-0.00043	0.083850	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
52	X Min	-0.05167	-0.00217	-0.45644	0.000601	-0.11083	-0.00026
52	X Max	0.051669	0.002167	-0.32115	-0.00060	-0.07795	0.000260
52	Y Min	-2.6e-13	-0.06303	-0.45644	0.017474	-0.11083	-3.4e-14
52	Y Max	2.57e-13	0.063030	-0.32115	-0.01747	-0.07795	3.40e-14
52	Z Min	-2.5e-18	-2.9e-17	-0.51442	-6.7e-15	-0.12492	-4.2e-21
52	Z Max	-2.2e-18	-1.4e-17	-0.32115	-4.5e-15	-0.07795	-2.8e-21
52	Rx Min	2.57e-13	0.063030	-0.45644	-0.01747	-0.11083	3.40e-14
52	Rx Max	-2.6e-13	-0.06303	-0.32115	0.017474	-0.07795	-3.4e-14
52	Ry Min	-2.5e-18	-2.9e-17	-0.51442	-6.7e-15	-0.12492	-4.2e-21
52	Ry Max	-2.2e-18	-1.4e-17	-0.32115	-4.5e-15	-0.07795	-2.8e-21
52	Rz Min	-0.05167	-0.00217	-0.45644	0.000601	-0.11083	-0.00026
52	Rz Max	0.051669	0.002167	-0.32115	-0.00060	-0.07795	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
53	X Min	-0.04986	-0.00217	-0.75083	0.000601	-0.18312	-0.00026
53	X Max	0.049857	0.002167	-0.51908	-0.00060	-0.12658	0.000260
53	Y Min	-2.0e-14	-0.06303	-0.75083	0.017474	-0.18312	-3.4e-14
53	Y Max	1.98e-14	0.063030	-0.51908	-0.01747	-0.12658	3.40e-14
53	Z Min	-2.5e-18	-2.9e-17	-0.85014	1.12e-14	-0.20736	-4.2e-21
53	Z Max	-2.2e-18	-1.4e-17	-0.51908	6.81e-15	-0.12658	-2.8e-21
53	Rx Min	1.98e-14	0.063030	-0.51908	-0.01747	-0.12658	3.40e-14
53	Rx Max	-2.0e-14	-0.06303	-0.75083	0.017474	-0.18312	-3.4e-14
53	Ry Min	-2.5e-18	-2.9e-17	-0.85014	1.12e-14	-0.20736	-4.2e-21
53	Ry Max	-2.2e-18	-1.4e-17	-0.51908	6.81e-15	-0.12658	-2.8e-21
53	Rz Min	-0.04986	-0.00217	-0.75083	0.000601	-0.18312	-0.00026
53	Rz Max	0.049857	0.002167	-0.51908	-0.00060	-0.12658	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
54	X Min	-0.04759	-0.00217	-0.49339	0.000601	-0.12020	-0.00026
54	X Max	0.047592	0.002167	-0.34493	-0.00060	-0.08400	0.000260
54	Y Min	2.77e-13	-0.06303	-0.49339	0.017474	-0.12020	-3.4e-14
54	Y Max	-2.8e-13	0.063030	-0.34493	-0.01747	-0.08400	3.40e-14
54	Z Min	-2.4e-18	-2.9e-17	-0.55701	7.76e-18	-0.13571	-4.2e-21
54	Z Max	-2.1e-18	-1.4e-17	-0.34493	3.68e-18	-0.08400	-2.8e-21
54	Rx Min	-2.8e-13	0.063030	-0.34493	-0.01747	-0.08400	3.40e-14
54	Rx Max	2.77e-13	-0.06303	-0.49339	0.017474	-0.12020	-3.4e-14
54	Ry Min	-2.4e-18	-2.9e-17	-0.55701	7.76e-18	-0.13571	-4.2e-21
54	Ry Max	-2.1e-18	-1.4e-17	-0.34493	3.68e-18	-0.08400	-2.8e-21
54	Rz Min	-0.04759	-0.00217	-0.49339	0.000601	-0.12020	-0.00026

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54	Rz Max	0.047592	0.002167	-0.34493	-0.00060	-0.08400	0.000260
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N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
56	X Min	-0.05167	-0.00279	-0.01399	0.000772	-0.01432	-0.00026
56	X Max	0.051669	0.002786	-0.00988	-0.00077	0.014324	0.000260
56	Y Min	-2.6e-13	-0.06303	-0.01399	0.017474	-7.1e-14	-3.4e-14
56	Y Max	2.57e-13	0.063030	-0.00988	-0.01747	7.13e-14	3.40e-14
56	Z Min	-2.5e-18	-2.9e-17	-0.01575	-1.4e-17	-8.9e-19	-4.2e-21
56	Z Max	-2.2e-18	-1.4e-17	-0.00988	-1.1e-17	-8.1e-19	-2.8e-21
56	Rx Min	2.57e-13	0.063030	-0.01399	-0.01747	7.13e-14	3.40e-14
56	Rx Max	-2.6e-13	-0.06303	-0.00988	0.017474	-7.1e-14	-3.4e-14
56	Ry Min	-0.05167	-0.00279	-0.01399	0.000772	-0.01432	-0.00026
56	Ry Max	0.051669	0.002786	-0.00988	-0.00077	0.014324	0.000260
56	Rz Min	-0.05167	-0.00279	-0.01399	0.000772	-0.01432	-0.00026
56	Rz Max	0.051669	0.002786	-0.00988	-0.00077	0.014324	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
58	X Min	-0.04986	-0.00279	-0.02278	0.000772	-0.01382	-0.00026
58	X Max	0.049857	0.002786	-0.01578	-0.00077	0.013822	0.000260
58	Y Min	-2.0e-14	-0.06303	-0.02278	0.017474	-5.5e-15	-3.4e-14
58	Y Max	1.98e-14	0.063030	-0.01578	-0.01747	5.48e-15	3.40e-14
58	Z Min	-2.5e-18	-2.9e-17	-0.02578	4.36e-17	-8.8e-19	-4.2e-21
58	Z Max	-2.2e-18	-1.4e-17	-0.01578	2.55e-17	-8.0e-19	-2.8e-21
58	Rx Min	1.98e-14	0.063030	-0.01578	-0.01747	5.48e-15	3.40e-14
58	Rx Max	-2.0e-14	-0.06303	-0.02278	0.017474	-5.5e-15	-3.4e-14
58	Ry Min	-0.04986	-0.00279	-0.02278	0.000772	-0.01382	-0.00026
58	Ry Max	0.049857	0.002786	-0.01578	-0.00077	0.013822	0.000260
58	Rz Min	-0.04986	-0.00279	-0.02278	0.000772	-0.01382	-0.00026
58	Rz Max	0.049857	0.002786	-0.01578	-0.00077	0.013822	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
60	X Min	-0.04759	-0.00279	-0.01450	0.000772	-0.01319	-0.00026
60	X Max	0.047592	0.002786	-0.01017	-0.00077	0.013194	0.000260
60	Y Min	2.77e-13	-0.06303	-0.01450	0.017474	7.67e-14	-3.4e-14
60	Y Max	-2.8e-13	0.063030	-0.01017	-0.01747	-7.7e-14	3.40e-14
60	Z Min	-2.4e-18	-2.9e-17	-0.01635	7.72e-18	-8.7e-19	-4.2e-21
60	Z Max	-2.1e-18	-1.4e-17	-0.01017	3.64e-18	-8.0e-19	-2.8e-21
60	Rx Min	-2.8e-13	0.063030	-0.01017	-0.01747	-7.7e-14	3.40e-14
60	Rx Max	2.77e-13	-0.06303	-0.01450	0.017474	7.67e-14	-3.4e-14
60	Ry Min	-0.04759	-0.00279	-0.01450	0.000772	-0.01319	-0.00026
60	Ry Max	0.047592	0.002786	-0.01017	-0.00077	0.013194	0.000260
60	Rz Min	-0.04759	-0.00279	-0.01450	0.000772	-0.01319	-0.00026
60	Rz Max	0.047592	0.002786	-0.01017	-0.00077	0.013194	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
61	X Min	-0.05167	-0.00340	-0.45430	0.000772	0.109928	-0.00026
61	X Max	0.051669	0.003405	-0.31965	-0.00077	0.077317	0.000260
61	Y Min	-2.6e-13	-0.06303	-0.45430	0.017474	0.109928	-3.4e-14
61	Y Max	2.57e-13	0.063030	-0.31965	-0.01747	0.077317	3.40e-14
61	Z Min	-2.5e-18	-2.9e-17	-0.51201	-1.3e-14	0.123904	-4.2e-21
61	Z Max	-2.2e-18	-1.4e-17	-0.31965	-9.1e-15	0.077317	-2.8e-21
61	Rx Min	2.57e-13	0.063030	-0.45430	-0.01747	0.109928	3.40e-14
61	Rx Max	-2.6e-13	-0.06303	-0.31965	0.017474	0.077317	-3.4e-14
61	Ry Min	-2.2e-18	-1.4e-17	-0.31965	-9.1e-15	0.077317	-2.8e-21
61	Ry Max	-2.5e-18	-2.9e-17	-0.51201	-1.3e-14	0.123904	-4.2e-21
61	Rz Min	-0.05167	-0.00340	-0.45430	0.000772	0.109928	-0.00026
61	Rz Max	0.051669	0.003405	-0.31965	-0.00077	0.077317	0.000260

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N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
62	X Min	-0.04986	-0.00340	-0.64796	0.000772	0.150610	-0.00026
62	X Max	0.049857	0.003405	-0.44686	-0.00077	0.103754	0.000260
62	Y Min	-2.0e-14	-0.06303	-0.64796	0.017474	0.150610	-3.4e-14
62	Y Max	1.98e-14	0.063030	-0.44686	-0.01747	0.103754	3.40e-14
62	Z Min	-2.5e-18	-2.9e-17	-0.73415	2.21e-14	0.170692	-4.2e-21
62	Z Max	-2.2e-18	-1.4e-17	-0.44686	1.34e-14	0.103754	-2.8e-21
62	Rx Min	1.98e-14	0.063030	-0.44686	-0.01747	0.103754	3.40e-14
62	Rx Max	-2.0e-14	-0.06303	-0.64796	0.017474	0.150610	-3.4e-14
62	Ry Min	-2.2e-18	-1.4e-17	-0.44686	1.34e-14	0.103754	-2.8e-21
62	Ry Max	-2.5e-18	-2.9e-17	-0.73415	2.21e-14	0.170692	-4.2e-21
62	Rz Min	-0.04986	-0.00340	-0.64796	0.000772	0.150610	-0.00026
62	Rz Max	0.049857	0.003405	-0.44686	-0.00077	0.103754	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
63	X Min	-0.04759	-0.00340	-0.37644	0.000772	0.083361	-0.00026
63	X Max	0.047592	0.003405	-0.26250	-0.00077	0.058041	0.000260
63	Y Min	2.77e-13	-0.06303	-0.37644	0.017474	0.083361	-3.4e-14
63	Y Max	-2.8e-13	0.063030	-0.26250	-0.01747	0.058041	3.40e-14
63	Z Min	-2.4e-18	-2.9e-17	-0.42528	-1.7e-16	0.094212	-4.2e-21
63	Z Max	-2.1e-18	-1.4e-17	-0.26250	-1.7e-16	0.058041	-2.8e-21
63	Rx Min	-2.8e-13	0.063030	-0.26250	-0.01747	0.058041	3.40e-14
63	Rx Max	2.77e-13	-0.06303	-0.37644	0.017474	0.083361	-3.4e-14
63	Ry Min	-2.1e-18	-1.4e-17	-0.26250	-1.7e-16	0.058041	-2.8e-21
63	Ry Max	-2.4e-18	-2.9e-17	-0.42528	-1.7e-16	0.094212	-4.2e-21
63	Rz Min	-0.04759	-0.00340	-0.37644	0.000772	0.083361	-0.00026
63	Rz Max	0.047592	0.003405	-0.26250	-0.00077	0.058041	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
64	X Min	-0.05167	-0.00402	-0.45217	0.000772	-0.11172	-0.00026
64	X Max	0.051669	0.004024	-0.31815	-0.00077	-0.07858	0.000260
64	Y Min	-2.6e-13	-0.06303	-0.45217	0.017474	-0.11172	-3.4e-14
64	Y Max	2.57e-13	0.063030	-0.31815	-0.01747	-0.07858	3.40e-14
64	Z Min	-2.5e-18	-2.9e-17	-0.50960	-2.0e-14	-0.12593	-4.2e-21
64	Z Max	-2.2e-18	-1.4e-17	-0.31815	-1.4e-14	-0.07858	-2.8e-21
64	Rx Min	2.57e-13	0.063030	-0.45217	-0.01747	-0.11172	3.40e-14
64	Rx Max	-2.6e-13	-0.06303	-0.31815	0.017474	-0.07858	-3.4e-14
64	Ry Min	-2.5e-18	-2.9e-17	-0.50960	-2.0e-14	-0.12593	-4.2e-21
64	Ry Max	-2.2e-18	-1.4e-17	-0.31815	-1.4e-14	-0.07858	-2.8e-21
64	Rz Min	-0.05167	-0.00402	-0.45217	0.000772	-0.11172	-0.00026
64	Rz Max	0.051669	0.004024	-0.31815	-0.00077	-0.07858	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
65	X Min	-0.04986	-0.00402	-0.62127	0.000772	-0.16768	-0.00026
65	X Max	0.049857	0.004024	-0.42813	-0.00077	-0.11572	0.000260
65	Y Min	-2.0e-14	-0.06303	-0.62127	0.017474	-0.16768	-3.4e-14
65	Y Max	1.98e-14	0.063030	-0.42813	-0.01747	-0.11572	3.40e-14
65	Z Min	-2.5e-18	-2.9e-17	-0.70404	3.31e-14	-0.18995	-4.2e-21
65	Z Max	-2.2e-18	-1.4e-17	-0.42813	2.00e-14	-0.11572	-2.8e-21
65	Rx Min	1.98e-14	0.063030	-0.42813	-0.01747	-0.11572	3.40e-14
65	Rx Max	-2.0e-14	-0.06303	-0.62127	0.017474	-0.16768	-3.4e-14
65	Ry Min	-2.5e-18	-2.9e-17	-0.70404	3.31e-14	-0.18995	-4.2e-21
65	Ry Max	-2.2e-18	-1.4e-17	-0.42813	2.00e-14	-0.11572	-2.8e-21
65	Rz Min	-0.04986	-0.00402	-0.62127	0.000772	-0.16768	-0.00026
65	Rz Max	0.049857	0.004024	-0.42813	-0.00077	-0.11572	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
66	X Min	-0.04759	-0.00402	-0.34698	0.000772	-0.10197	-0.00026
66	X Max	0.047592	0.004024	-0.24175	-0.00077	-0.07115	0.000260
66	Y Min	2.77e-13	-0.06303	-0.34698	0.017474	-0.10197	-3.4e-14
66	Y Max	-2.8e-13	0.063030	-0.24175	-0.01747	-0.07115	3.40e-14
66	Z Min	-2.4e-18	-2.9e-17	-0.39208	-3.4e-16	-0.11518	-4.2e-21
66	Z Max	-2.1e-18	-1.4e-17	-0.24175	-3.5e-16	-0.07115	-2.8e-21
66	Rx Min	-2.8e-13	0.063030	-0.24175	-0.01747	-0.07115	3.40e-14
66	Rx Max	2.77e-13	-0.06303	-0.34698	0.017474	-0.10197	-3.4e-14
66	Ry Min	-2.4e-18	-2.9e-17	-0.39208	-3.4e-16	-0.11518	-4.2e-21
66	Ry Max	-2.1e-18	-1.4e-17	-0.24175	-3.5e-16	-0.07115	-2.8e-21
66	Rz Min	-0.04759	-0.00402	-0.34698	0.000772	-0.10197	-0.00026
66	Rz Max	0.047592	0.004024	-0.24175	-0.00077	-0.07115	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
67	X Min	-0.05193	-0.00464	0.	0.	0.	-0.00026
67	X Max	0.051927	0.004643	0.	0.	0.	0.000260
67	Y Min	-2.9e-13	-0.06303	0.	0.	0.	-3.4e-14
67	Y Max	2.91e-13	0.063030	0.	0.	0.	3.40e-14
67	Z Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Z Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Rx Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Rx Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Ry Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Ry Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Rz Min	-0.05193	-0.00464	0.	0.	0.	-0.00026
67	Rz Max	0.051927	0.004643	0.	0.	0.	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
69	X Min	-0.05167	-0.00464	-0.00757	0.000772	-0.22491	-0.00026
69	X Max	0.051669	0.004643	-0.00537	-0.00077	-0.15829	0.000260
69	Y Min	-2.6e-13	-0.06303	-0.00757	0.017474	-0.22491	-3.4e-14
69	Y Max	2.57e-13	0.063030	-0.00537	-0.01747	-0.15829	3.40e-14
69	Z Min	-2.5e-18	-2.9e-17	-0.00851	-2.0e-14	-0.25347	-4.2e-21
69	Z Max	-2.2e-18	-1.4e-17	-0.00537	-1.4e-14	-0.15829	-2.8e-21
69	Rx Min	2.57e-13	0.063030	-0.00757	-0.01747	-0.22491	3.40e-14
69	Rx Max	-2.6e-13	-0.06303	-0.00537	0.017474	-0.15829	-3.4e-14
69	Ry Min	-2.5e-18	-2.9e-17	-0.00851	-2.0e-14	-0.25347	-4.2e-21
69	Ry Max	-2.2e-18	-1.4e-17	-0.00537	-1.4e-14	-0.15829	-2.8e-21
69	Rz Min	-0.05167	-0.00464	-0.00757	0.000772	-0.22491	-0.00026
69	Rz Max	0.051669	0.004643	-0.00537	-0.00077	-0.15829	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
70	X Min	-0.05054	-0.00464	-0.88882	0.131711	-0.25393	-0.00026
70	X Max	0.050537	0.004643	-0.61166	0.090874	-0.17595	0.000260
70	Y Min	-1.1e-13	-0.06303	-0.88882	0.131711	-0.25393	-3.4e-14
70	Y Max	1.09e-13	0.063030	-0.61166	0.090874	-0.17595	3.40e-14
70	Z Min	-2.5e-18	-2.9e-17	-1.00761	0.149213	-0.28735	-4.2e-21
70	Z Max	-2.2e-18	-1.4e-17	-0.61166	0.090874	-0.17595	-2.8e-21
70	Rx Min	-2.2e-18	-1.4e-17	-0.61166	0.090874	-0.17595	-2.8e-21
70	Rx Max	-2.5e-18	-2.9e-17	-1.00761	0.149213	-0.28735	-4.2e-21
70	Ry Min	-2.5e-18	-2.9e-17	-1.00761	0.149213	-0.28735	-4.2e-21
70	Ry Max	-2.2e-18	-1.4e-17	-0.61166	0.090874	-0.17595	-2.8e-21
70	Rz Min	-0.05054	-0.00464	-0.88882	0.131711	-0.25393	-0.00026
70	Rz Max	0.050537	0.004643	-0.61166	0.090874	-0.17595	0.000260

**VALBONDIONE
TERRAZZA ESTERNA**

FASCICOLO DEI CALCOLI

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
72	X Min	-0.04986	-0.00464	-0.01866	0.000772	-0.27134	-0.00026
72	X Max	0.049857	0.004643	-0.01298	-0.00077	-0.18655	0.000260
72	Y Min	-2.0e-14	-0.06303	-0.01866	0.017474	-0.27134	-3.4e-14
72	Y Max	1.98e-14	0.063030	-0.01298	-0.01747	-0.18655	3.40e-14
72	Z Min	-2.5e-18	-2.9e-17	-0.02110	3.29e-14	-0.30768	-4.2e-21
72	Z Max	-2.2e-18	-1.4e-17	-0.01298	1.98e-14	-0.18655	-2.8e-21
72	Rx Min	1.98e-14	0.063030	-0.01298	-0.01747	-0.18655	3.40e-14
72	Rx Max	-2.0e-14	-0.06303	-0.01866	0.017474	-0.27134	-3.4e-14
72	Ry Min	-2.5e-18	-2.9e-17	-0.02110	3.29e-14	-0.30768	-4.2e-21
72	Ry Max	-2.2e-18	-1.4e-17	-0.01298	1.98e-14	-0.18655	-2.8e-21
72	Rz Min	-0.04986	-0.00464	-0.01866	0.000772	-0.27134	-0.00026
72	Rz Max	0.049857	0.004643	-0.01298	-0.00077	-0.18655	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
74	X Min	-0.04759	-0.00464	-0.01334	0.000772	-0.13217	-0.00026
74	X Max	0.047592	0.004643	-0.00939	-0.00077	-0.09180	0.000260
74	Y Min	2.77e-13	-0.06303	-0.01334	0.017474	-0.13217	-3.4e-14
74	Y Max	-2.8e-13	0.063030	-0.00939	-0.01747	-0.09180	3.40e-14
74	Z Min	-2.4e-18	-2.9e-17	-0.01504	-5.2e-16	-0.14947	-4.2e-21
74	Z Max	-2.1e-18	-1.4e-17	-0.00939	-5.2e-16	-0.09180	-2.8e-21
74	Rx Min	-2.8e-13	0.063030	-0.00939	-0.01747	-0.09180	3.40e-14
74	Rx Max	2.77e-13	-0.06303	-0.01334	0.017474	-0.13217	-3.4e-14
74	Ry Min	-2.4e-18	-2.9e-17	-0.01504	-5.2e-16	-0.14947	-4.2e-21
74	Ry Max	-2.1e-18	-1.4e-17	-0.00939	-5.2e-16	-0.09180	-2.8e-21
74	Rz Min	-0.04759	-0.00464	-0.01334	0.000772	-0.13217	-0.00026
74	Rz Max	0.047592	0.004643	-0.00939	-0.00077	-0.09180	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
75	X Min	-0.05054	-0.00523	0.	0.	0.	-0.00026
75	X Max	0.050537	0.005232	0.	0.	0.	0.000260
75	Y Min	-1.1e-13	-0.06303	0.	0.	0.	-3.4e-14
75	Y Max	1.09e-13	0.063030	0.	0.	0.	3.40e-14
75	Z Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Z Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Rx Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Rx Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Ry Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Ry Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Rz Min	-0.05054	-0.00523	0.	0.	0.	-0.00026
75	Rz Max	0.050537	0.005232	0.	0.	0.	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
76	X Min	-0.04986	-0.00523	0.528718	0.000772	-0.22630	-0.00026
76	X Max	0.049857	0.005232	0.362468	-0.00077	-0.15503	0.000260
76	Y Min	-2.0e-14	-0.06303	0.528718	0.017474	-0.22630	-3.4e-14
76	Y Max	1.98e-14	0.063030	0.362468	-0.01747	-0.15503	3.40e-14
76	Z Min	-2.2e-18	-1.4e-17	0.362468	1.98e-14	-0.15503	-2.8e-21
76	Z Max	-2.5e-18	-2.9e-17	0.599967	3.29e-14	-0.25684	-4.2e-21
76	Rx Min	1.98e-14	0.063030	0.362468	-0.01747	-0.15503	3.40e-14
76	Rx Max	-2.0e-14	-0.06303	0.528718	0.017474	-0.22630	-3.4e-14
76	Ry Min	-2.5e-18	-2.9e-17	0.599967	3.29e-14	-0.25684	-4.2e-21
76	Ry Max	-2.2e-18	-1.4e-17	0.362468	1.98e-14	-0.15503	-2.8e-21
76	Rz Min	-0.04986	-0.00523	0.528718	0.000772	-0.22630	-0.00026
76	Rz Max	0.049857	0.005232	0.362468	-0.00077	-0.15503	0.000260

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
77	X Min	-0.04759	-0.00523	0.210618	0.000772	-0.08265	-0.00026
77	X Max	0.047592	0.005232	0.145548	-0.00077	-0.05704	0.000260
77	Y Min	2.77e-13	-0.06303	0.210618	0.017474	-0.08265	-3.4e-14
77	Y Max	-2.8e-13	0.063030	0.145548	-0.01747	-0.05704	3.40e-14
77	Z Min	-2.1e-18	-1.4e-17	0.145548	-5.2e-16	-0.05704	-2.8e-21
77	Z Max	-2.4e-18	-2.9e-17	0.238504	-5.2e-16	-0.09362	-4.2e-21
77	Rx Min	-2.8e-13	0.063030	0.145548	-0.01747	-0.05704	3.40e-14
77	Rx Max	2.77e-13	-0.06303	0.210618	0.017474	-0.08265	-3.4e-14
77	Ry Min	-2.4e-18	-2.9e-17	0.238504	-5.2e-16	-0.09362	-4.2e-21
77	Ry Max	-2.1e-18	-1.4e-17	0.145548	-5.2e-16	-0.05704	-2.8e-21
77	Rz Min	-0.04759	-0.00523	0.210618	0.000772	-0.08265	-0.00026
77	Rz Max	0.047592	0.005232	0.145548	-0.00077	-0.05704	0.000260
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N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
78	X Min	-0.04743	-0.00523	0.	0.	0.	-0.00026
78	X Max	0.047434	0.005232	0.	0.	0.	0.000260
78	Y Min	2.98e-13	-0.06303	0.	0.	0.	-3.4e-14
78	Y Max	-3.0e-13	0.063030	0.	0.	0.	3.40e-14
78	Z Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Z Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Rx Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Rx Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Ry Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Ry Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Rz Min	-0.04743	-0.00523	0.	0.	0.	-0.00026
78	Rz Max	0.047434	0.005232	0.	0.	0.	0.000260

Massimi spostamenti rilevati per l'inviluppo ~SL18 SLE caratt.

Spostamento lungo X: Nodo n°5 Valore -0.0519273 cm

Spostamento lungo Y: Nodo n°1 Valore -0.0630299 cm

Spostamento lungo Z: Nodo n°8 Valore -1.00761 cm

Rotazione attorno X: Nodo n°8 Valore 0.149213 °

Rotazione attorno Y: Nodo n°72 Valore -0.307678 °

Rotazione attorno Z: Nodo n°1 Valore -0.000259536 °

Spostamenti assoluti derivati dall'Inviluppo ~SL18 SLV Sism. Orizz. Sicurezza

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
1	X Min	-4.03032	-0.38195	0.	0.	0.	-0.03206
1	X Max	4.030320	0.381953	0.	0.	0.	0.032063
1	Y Min	-0.85206	-2.61642	0.	0.	0.	0.087265
1	Y Max	0.852057	2.616420	0.	0.	0.	-0.08727
1	Z Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Z Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Rx Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Rx Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Ry Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Ry Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
1	Rz Min	0.852057	-1.66849	0.	0.	0.	-0.08727
1	Rz Max	-0.85206	1.668494	0.	0.	0.	0.087265
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N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
2	X Min	-3.94778	-0.38195	0.504967	0.092532	0.216114	-0.03206

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2	X Max	3.947775	0.381953	0.320906	-0.09253	0.137209	0.032063
2	Y Min	-1.07880	-2.61642	0.504967	0.541125	0.216114	0.087265
2	Y Max	1.078800	2.616420	0.320906	-0.54112	0.137209	-0.08727
2	Z Min	1.086600	-1.80848	0.320906	0.387448	0.137209	-0.08032
2	Z Max	-1.08660	1.808484	0.504967	-0.38745	0.216114	0.080321
2	Rx Min	1.078800	2.616420	0.320906	-0.54112	0.137209	-0.08727
2	Rx Max	-1.07880	-2.61642	0.504967	0.541125	0.216114	0.087265
2	Ry Min	1.086600	-1.80848	0.320906	0.387448	0.137209	-0.08032
2	Ry Max	-1.08660	1.808484	0.504967	-0.38745	0.216114	0.080321
2	Rz Min	1.078800	-1.66849	0.504967	0.366786	0.216114	-0.08727
2	Rz Max	-1.07880	1.668494	0.320906	-0.36679	0.137209	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
3	X Min	-4.21390	0.209985	0.201322	-0.06715	0.078988	0.040594
3	X Max	4.213896	-0.20998	0.129281	0.067150	0.050640	-0.04059
3	Y Min	-1.83914	-2.61642	0.201322	0.541125	0.078988	0.087265
3	Y Max	1.839145	2.616420	0.129281	-0.54112	0.050640	-0.08727
3	Z Min	-4.21390	-1.07549	0.129281	0.205223	0.050640	0.040593
3	Z Max	4.213896	1.075490	0.201322	-0.20522	0.078988	-0.04059
3	Rx Min	1.839145	2.616420	0.129281	-0.54112	0.050640	-0.08727
3	Rx Max	-1.83914	-2.61642	0.201322	0.541125	0.078988	0.087265
3	Ry Min	3.834790	-0.43689	0.129281	0.110969	0.050640	0.008915
3	Ry Max	-3.83479	0.436888	0.201322	-0.11097	0.078988	-0.00891
3	Rz Min	1.839145	-1.66849	0.201322	0.366786	0.078988	-0.08727
3	Rz Max	-1.83914	1.668494	0.129281	-0.36679	0.050640	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
4	X Min	-4.23810	0.209985	0.	0.	0.	0.040594
4	X Max	4.238098	-0.20998	0.	0.	0.	-0.04059
4	Y Min	-1.89226	-2.61642	0.	0.	0.	0.087265
4	Y Max	1.892262	2.616420	0.	0.	0.	-0.08727
4	Z Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Z Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Rx Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Rx Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Ry Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Ry Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
4	Rz Min	1.892262	-1.66849	0.	0.	0.	-0.08727
4	Rz Max	-1.89226	1.668494	0.	0.	0.	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
5	X Min	-4.19978	-0.36287	0.	0.	0.	-0.03206
5	X Max	4.199776	0.362869	0.	0.	0.	0.032063
5	Y Min	-0.38643	-2.44794	0.	0.	0.	0.087265
5	Y Max	0.386434	2.447936	0.	0.	0.	-0.08727
5	Z Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Z Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Rx Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Rx Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Ry Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Ry Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
5	Rz Min	0.386434	-1.56039	0.	0.	0.	-0.08727
5	Rz Max	-0.38643	1.560385	0.	0.	0.	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
7	X Min	-4.16830	-0.36287	-0.00725	0.092532	0.215396	-0.03206
7	X Max	4.168304	0.362869	-0.00482	-0.09253	0.141638	0.032063

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7	Y Min	-0.47290	-2.44794	-0.00725	0.541125	0.215396	0.087265
7	Y Max	0.472902	2.447936	-0.00482	-0.54112	0.141638	-0.08727
7	Z Min	-3.99113	0.425516	-0.00725	-0.11097	0.215396	-0.00891
7	Z Max	3.991135	-0.42552	-0.00482	0.110969	0.141638	0.008915
7	Rx Min	0.472902	2.447936	-0.00725	-0.54112	0.215396	-0.08727
7	Rx Max	-0.47290	-2.44794	-0.00482	0.541125	0.141638	0.087265
7	Ry Min	3.592361	-0.21026	-0.00482	0.067150	0.141638	-0.04059
7	Ry Max	-3.59236	0.210256	-0.00725	-0.06715	0.215396	0.040594
7	Rz Min	0.472902	-1.56039	-0.00725	0.366786	0.215396	-0.08727
7	Rz Max	-0.47290	1.560385	-0.00482	-0.36679	0.141638	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
8	X Min	-4.03032	-0.36287	-0.84923	0.125878	0.242791	-0.03206
8	X Max	4.030320	0.362869	-0.54237	0.080665	0.156460	0.032063
8	Y Min	-0.85206	-2.44794	-0.84923	0.125878	0.242791	0.087265
8	Y Max	0.852057	2.447936	-0.54237	0.080665	0.156460	-0.08727
8	Z Min	-3.84745	0.624368	-0.84923	0.125878	0.242791	0.017445
8	Z Max	3.847446	-0.62437	-0.54237	0.080665	0.156460	-0.01745
8	Rx Min	-3.84745	-0.57813	-0.54237	0.080665	0.156460	0.017445
8	Rx Max	3.847446	0.578129	-0.84923	0.125878	0.242791	-0.01745
8	Ry Min	0.876875	-1.68462	-0.54237	0.080665	0.156460	-0.08032
8	Ry Max	-0.87688	1.684619	-0.84923	0.125878	0.242791	0.080321
8	Rz Min	0.852057	-1.56039	-0.84923	0.125878	0.242791	-0.08727
8	Rz Max	-0.85206	1.560385	-0.54237	0.080665	0.156460	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
10	X Min	-3.94778	-0.36287	-0.01785	0.092532	0.259227	-0.03206
10	X Max	3.947775	0.362869	-0.01156	-0.09253	0.165353	0.032063
10	Y Min	-1.07880	-2.44794	-0.01785	0.541125	0.259227	0.087265
10	Y Max	1.078800	2.447936	-0.01156	-0.54112	0.165353	-0.08727
10	Z Min	3.921775	0.776980	-0.01785	-0.16140	0.259227	0.008915
10	Z Max	-3.92177	-0.77698	-0.01156	0.161404	0.165353	-0.00891
10	Rx Min	1.078800	2.447936	-0.01156	-0.54112	0.165353	-0.08727
10	Rx Max	-1.07880	-2.44794	-0.01785	0.541125	0.259227	0.087265
10	Ry Min	1.086600	-1.68462	-0.01156	0.387448	0.165353	-0.08032
10	Ry Max	-1.08660	1.684619	-0.01785	-0.38745	0.259227	0.080321
10	Rz Min	1.078800	-1.56039	-0.01785	0.366786	0.259227	-0.08727
10	Rz Max	-1.07880	1.560385	-0.01156	-0.36679	0.165353	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
12	X Min	-4.21390	0.210256	-0.01278	-0.06715	0.126404	0.040594
12	X Max	4.213896	-0.21026	-0.00840	0.067150	0.081707	-0.04059
12	Y Min	-1.83914	-2.44794	-0.01278	0.541125	0.126404	0.087265
12	Y Max	1.839145	2.447936	-0.00840	-0.54112	0.081707	-0.08727
12	Z Min	4.050486	-0.62437	-0.01278	0.136023	0.126404	-0.01745
12	Z Max	-4.05049	0.624368	-0.00840	-0.13602	0.081707	0.017445
12	Rx Min	1.839145	2.447936	-0.00840	-0.54112	0.081707	-0.08727
12	Rx Max	-1.83914	-2.44794	-0.01278	0.541125	0.126404	0.087265
12	Ry Min	3.834790	-0.42552	-0.00840	0.110969	0.081707	0.008915
12	Ry Max	-3.83479	0.425516	-0.01278	-0.11097	0.126404	-0.00891
12	Rz Min	1.839145	-1.56039	-0.01278	0.366786	0.126404	-0.08727
12	Rz Max	-1.83914	1.560385	-0.00840	-0.36679	0.081707	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
13	X Min	-4.16830	-0.34723	-0.43302	0.092532	0.106986	-0.03206
13	X Max	4.168304	0.347234	-0.28465	-0.09253	0.070290	0.032063
13	Y Min	-0.47290	-2.27580	-0.43302	0.541125	0.106986	0.087265

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13	Y Max	0.472902	2.275801	-0.28465	-0.54112	0.070290	-0.08727
13	Z Min	4.168304	0.347234	-0.43302	-0.09253	0.106986	0.032063
13	Z Max	-4.16830	-0.34723	-0.28465	0.092532	0.070290	-0.03206
13	Rx Min	0.472902	2.275801	-0.43302	-0.54112	0.106986	-0.08727
13	Rx Max	-0.47290	-2.27580	-0.28465	0.541125	0.070290	0.087265
13	Ry Min	3.769530	-0.57387	-0.28465	0.136023	0.070290	-0.01745
13	Ry Max	-3.76953	0.573866	-0.43302	-0.13602	0.106986	0.017445
13	Rz Min	0.472902	-1.46149	-0.43302	0.366786	0.106986	-0.08727
13	Rz Max	-0.47290	1.461493	-0.28465	-0.36679	0.070290	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
14	X Min	-3.94778	-0.34723	-0.59368	0.092532	0.160261	-0.03206
14	X Max	3.947775	0.347234	-0.37985	-0.09253	0.102732	0.032063
14	Y Min	-1.07880	-2.27580	-0.59368	0.541125	0.160261	0.087265
14	Y Max	1.078800	2.275801	-0.37985	-0.54112	0.102732	-0.08727
14	Z Min	-1.08660	1.569162	-0.59368	-0.38745	0.160261	0.080321
14	Z Max	1.086600	-1.56916	-0.37985	0.387448	0.102732	-0.08032
14	Rx Min	1.078800	2.275801	-0.37985	-0.54112	0.102732	-0.08727
14	Rx Max	-1.07880	-2.27580	-0.59368	0.541125	0.160261	0.087265
14	Ry Min	1.086600	-1.56916	-0.37985	0.387448	0.102732	-0.08032
14	Ry Max	-1.08660	1.569162	-0.59368	-0.38745	0.160261	0.080321
14	Rz Min	1.078800	-1.46149	-0.59368	0.366786	0.160261	-0.08727
14	Rz Max	-1.07880	1.461493	-0.37985	-0.36679	0.102732	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
15	X Min	-4.21390	0.214970	-0.33195	-0.06715	0.097564	0.040594
15	X Max	4.213896	-0.21497	-0.21544	0.067150	0.063441	-0.04059
15	Y Min	-1.83914	-2.27580	-0.33195	0.541125	0.097564	0.087265
15	Y Max	1.839145	2.275801	-0.21544	-0.54112	0.063441	-0.08727
15	Z Min	4.050486	0.547322	-0.33195	-0.13635	0.097564	-0.01745
15	Z Max	-4.05049	-0.54732	-0.21544	0.136351	0.063441	0.017445
15	Rx Min	1.839145	2.275801	-0.21544	-0.54112	0.063441	-0.08727
15	Rx Max	-1.83914	-2.27580	-0.33195	0.541125	0.097564	0.087265
15	Ry Min	-4.05049	-0.54732	-0.21544	0.136351	0.063441	0.017445
15	Ry Max	4.050486	0.547322	-0.33195	-0.13635	0.097564	-0.01745
15	Rz Min	1.839145	-1.46149	-0.33195	0.366786	0.097564	-0.08727
15	Rz Max	-1.83914	1.461493	-0.21544	-0.36679	0.063441	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
16	X Min	-4.16830	-0.33716	-0.43507	0.092532	-0.10527	-0.03206
16	X Max	4.168304	0.337161	-0.28599	-0.09253	-0.06916	0.032063
16	Y Min	-0.47290	-2.10997	-0.43507	0.541125	-0.10527	0.087265
16	Y Max	0.472902	2.109966	-0.28599	-0.54112	-0.06916	-0.08727
16	Z Min	3.991135	0.640842	-0.43507	-0.16140	-0.10527	0.008915
16	Z Max	-3.99113	-0.64084	-0.28599	0.161404	-0.06916	-0.00891
16	Rx Min	0.472902	2.109966	-0.43507	-0.54112	-0.10527	-0.08727
16	Rx Max	-0.47290	-2.10997	-0.28599	0.541125	-0.06916	0.087265
16	Ry Min	3.991135	0.640842	-0.43507	-0.16140	-0.10527	0.008915
16	Ry Max	-3.99113	-0.64084	-0.28599	0.161404	-0.06916	-0.00891
16	Rz Min	0.472902	-1.38114	-0.43507	0.366786	-0.10527	-0.08727
16	Rz Max	-0.47290	1.381139	-0.28599	-0.36679	-0.06916	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
17	X Min	-3.94778	-0.33716	-0.61923	0.092532	-0.14392	-0.03206
17	X Max	3.947775	0.337161	-0.39658	-0.09253	-0.09204	0.032063
17	Y Min	-1.07880	-2.10997	-0.61923	0.541125	-0.14392	0.087265
17	Y Max	1.078800	2.109966	-0.39658	-0.54112	-0.09204	-0.08727

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17	Z Min	-1.08660	1.472244	-0.61923	-0.38745	-0.14392	0.080321
17	Z Max	1.086600	-1.47224	-0.39658	0.387448	-0.09204	-0.08032
17	Rx Min	1.078800	2.109966	-0.39658	-0.54112	-0.09204	-0.08727
17	Rx Max	-1.07880	-2.10997	-0.61923	0.541125	-0.14392	0.087265
17	Ry Min	-1.08660	1.472244	-0.61923	-0.38745	-0.14392	0.080321
17	Ry Max	1.086600	-1.47224	-0.39658	0.387448	-0.09204	-0.08032
17	Rz Min	1.078800	-1.38114	-0.61923	0.366786	-0.14392	-0.08727
17	Rz Max	-1.07880	1.381139	-0.39658	-0.36679	-0.09204	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
18	X Min	-4.21390	0.225245	-0.36017	-0.06715	-0.07974	0.040594
18	X Max	4.213896	-0.22524	-0.23402	0.067150	-0.05171	-0.04059
18	Y Min	-1.83914	-2.10997	-0.36017	0.541125	-0.07974	0.087265
18	Y Max	1.839145	2.109966	-0.23402	-0.54112	-0.05171	-0.08727
18	Z Min	-3.83479	0.406489	-0.36017	-0.11097	-0.07974	-0.00891
18	Z Max	3.834790	-0.40649	-0.23402	0.110969	-0.05171	0.008915
18	Rx Min	1.839145	2.109966	-0.23402	-0.54112	-0.05171	-0.08727
18	Rx Max	-1.83914	-2.10997	-0.36017	0.541125	-0.07974	0.087265
18	Ry Min	-3.83479	0.406489	-0.36017	-0.11097	-0.07974	-0.00891
18	Ry Max	3.834790	-0.40649	-0.23402	0.110969	-0.05171	0.008915
18	Rz Min	1.839145	-1.38114	-0.36017	0.366786	-0.07974	-0.08727
18	Rz Max	-1.83914	1.381139	-0.23402	-0.36679	-0.05171	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
20	X Min	-4.16830	-0.33376	-0.01340	0.092532	-1.15560	-0.03206
20	X Max	4.168304	0.333764	-0.00885	-0.09253	1.155596	0.032063
20	Y Min	-0.47290	-1.95197	-0.01340	0.541125	-0.13115	0.087265
20	Y Max	0.472902	1.951968	-0.00885	-0.54112	0.131145	-0.08727
20	Z Min	3.991135	0.582231	-0.01340	-0.16140	1.106488	0.008915
20	Z Max	-3.99113	-0.58223	-0.00885	0.161404	-1.10649	-0.00891
20	Rx Min	0.472902	1.951968	-0.01340	-0.54112	0.131145	-0.08727
20	Rx Max	-0.47290	-1.95197	-0.00885	0.541125	-0.13115	0.087265
20	Ry Min	-4.16830	-0.33376	-0.01340	0.092532	-1.15560	-0.03206
20	Ry Max	4.168304	0.333764	-0.00885	-0.09253	1.155596	0.032063
20	Rz Min	0.472902	-1.32304	-0.01340	0.366786	0.131145	-0.08727
20	Rz Max	-0.47290	1.323039	-0.00885	-0.36679	-0.13115	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
22	X Min	-3.94778	-0.33376	-0.02178	0.092532	-1.09447	-0.03206
22	X Max	3.947775	0.333764	-0.01403	-0.09253	1.094472	0.032063
22	Y Min	-1.07880	-1.95197	-0.02178	0.541125	-0.29908	0.087265
22	Y Max	1.078800	1.951968	-0.01403	-0.54112	0.299084	-0.08727
22	Z Min	1.258125	1.425050	-0.02178	-0.39506	0.348800	0.077762
22	Z Max	-1.25813	-1.42505	-0.01403	0.395062	-0.34880	-0.07776
22	Rx Min	1.078800	1.951968	-0.01403	-0.54112	0.299084	-0.08727
22	Rx Max	-1.07880	-1.95197	-0.02178	0.541125	-0.29908	0.087265
22	Ry Min	-3.94778	-0.33376	-0.02178	0.092532	-1.09447	-0.03206
22	Ry Max	3.947775	0.333764	-0.01403	-0.09253	1.094472	0.032063
22	Rz Min	1.078800	-1.32304	-0.02178	0.366786	0.299084	-0.08727
22	Rz Max	-1.07880	1.323039	-0.01403	-0.36679	-0.29908	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
24	X Min	-4.21390	0.242196	-0.01388	-0.06715	-1.16823	0.040594
24	X Max	4.213896	-0.24220	-0.00909	0.067150	1.168233	-0.04059
24	Y Min	-1.83914	-1.95197	-0.01388	0.541125	-0.50984	0.087265
24	Y Max	1.839145	1.951968	-0.00909	-0.54112	0.509841	-0.08727
24	Z Min	-3.83479	0.400272	-0.01388	-0.11097	-1.06315	-0.00891

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24	Z Max	3.834790	-0.40027	-0.00909	0.110969	1.063153	0.008915
24	Rx Min	1.839145	1.951968	-0.00909	-0.54112	0.509841	-0.08727
24	Rx Max	-1.83914	-1.95197	-0.01388	0.541125	-0.50984	0.087265
24	Ry Min	-4.21390	0.242196	-0.01388	-0.06715	-1.16823	0.040594
24	Ry Max	4.213896	-0.24220	-0.00909	0.067150	1.168233	-0.04059
24	Rz Min	1.839145	-1.32304	-0.01388	0.366786	0.509841	-0.08727
24	Rz Max	-1.83914	1.323039	-0.00909	-0.36679	-0.50984	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
25	X Min	-4.16830	-0.33809	-0.43711	0.093732	0.106128	-0.03206
25	X Max	4.168304	0.338090	-0.28733	-0.09373	0.069727	0.032063
25	Y Min	-0.47290	-1.80376	-0.43711	0.500050	0.106128	0.087265
25	Y Max	0.472902	1.803763	-0.28733	-0.50005	0.069727	-0.08727
25	Z Min	4.168304	-0.59024	-0.43711	0.163629	0.106128	0.032063
25	Z Max	-4.16830	0.590244	-0.28733	-0.16363	0.069727	-0.03206
25	Rx Min	0.472902	1.803763	-0.43711	-0.50005	0.106128	-0.08727
25	Rx Max	-0.47290	-1.80376	-0.28733	0.500050	0.069727	0.087265
25	Ry Min	-4.16830	0.590244	-0.28733	-0.16363	0.069727	-0.03206
25	Ry Max	4.168304	-0.59024	-0.43711	0.163629	0.106128	0.032063
25	Rz Min	0.472902	-1.29068	-0.43711	0.357823	0.106128	-0.08727
25	Rz Max	-0.47290	1.290683	-0.28733	-0.35782	0.069727	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
26	X Min	-3.94778	-0.33809	-0.71772	0.093732	0.175045	-0.03206
26	X Max	3.947775	0.338090	-0.46115	-0.09373	0.112443	0.032063
26	Y Min	-1.07880	-1.80376	-0.71772	0.500050	0.175045	0.087265
26	Y Max	1.078800	1.803763	-0.46115	-0.50005	0.112443	-0.08727
26	Z Min	3.921775	0.531342	-0.71772	-0.14730	0.175045	0.008915
26	Z Max	-3.92177	-0.53134	-0.46115	0.147301	0.112443	-0.00891
26	Rx Min	1.078800	1.803763	-0.46115	-0.50005	0.112443	-0.08727
26	Rx Max	-1.07880	-1.80376	-0.71772	0.500050	0.175045	0.087265
26	Ry Min	-3.92177	-0.53134	-0.46115	0.147301	0.112443	-0.00891
26	Ry Max	3.921775	0.531342	-0.71772	-0.14730	0.175045	0.008915
26	Rz Min	1.078800	-1.29068	-0.71772	0.357823	0.175045	-0.08727
26	Rz Max	-1.07880	1.290683	-0.46115	-0.35782	0.112443	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
27	X Min	-4.21390	0.266870	-0.47218	-0.07399	0.115028	0.040594
27	X Max	4.213896	-0.26687	-0.30781	0.073991	0.074954	-0.04059
27	Y Min	-1.83914	-1.80376	-0.47218	0.500050	0.115028	0.087265
27	Y Max	1.839145	1.803763	-0.30781	-0.50005	0.074954	-0.08727
27	Z Min	-3.83479	0.396992	-0.47218	-0.11006	0.115028	-0.00891
27	Z Max	3.834790	-0.39699	-0.30781	0.110061	0.074954	0.008915
27	Rx Min	1.839145	1.803763	-0.30781	-0.50005	0.074954	-0.08727
27	Rx Max	-1.83914	-1.80376	-0.47218	0.500050	0.115028	0.087265
27	Ry Min	-4.21390	-0.66146	-0.30781	0.183371	0.074954	0.040593
27	Ry Max	4.213896	0.661463	-0.47218	-0.18337	0.115028	-0.04059
27	Rz Min	1.839145	-1.29068	-0.47218	0.357823	0.115028	-0.08727
27	Rz Max	-1.83914	1.290683	-0.30781	-0.35782	0.074954	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
28	X Min	-4.16830	-0.35091	-0.43711	0.097286	-0.10613	-0.03206
28	X Max	4.168304	0.350909	-0.28733	-0.09729	-0.06973	0.032063
28	Y Min	-0.47290	-1.66780	-0.43711	0.462369	-0.10613	0.087265
28	Y Max	0.472902	1.667805	-0.28733	-0.46237	-0.06973	-0.08727
28	Z Min	4.168304	-0.53542	-0.43711	0.148436	-0.10613	0.032063
28	Z Max	-4.16830	0.535424	-0.28733	-0.14844	-0.06973	-0.03206

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28	Rx Min	0.472902	1.667805	-0.43711	-0.46237	-0.10613	-0.08727
28	Rx Max	-0.47290	-1.66780	-0.28733	0.462369	-0.06973	0.087265
28	Ry Min	4.168304	0.350909	-0.43711	-0.09729	-0.10613	0.032063
28	Ry Max	-4.16830	-0.35091	-0.28733	0.097286	-0.06973	-0.03206
28	Rz Min	0.472902	-1.28664	-0.43711	0.356705	-0.10613	-0.08727
28	Rz Max	-0.47290	1.286638	-0.28733	-0.35671	-0.06973	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
29	X Min	-3.94778	-0.35091	-0.71794	0.097286	-0.17486	-0.03206
29	X Max	3.947775	0.350909	-0.46129	-0.09729	-0.11233	0.032063
29	Y Min	-1.07880	-1.66780	-0.71794	0.462369	-0.17486	0.087265
29	Y Max	1.078800	1.667805	-0.46129	-0.46237	-0.11233	-0.08727
29	Z Min	3.921775	0.488946	-0.71794	-0.13555	-0.17486	0.008915
29	Z Max	-3.92177	-0.48895	-0.46129	0.135551	-0.11233	-0.00891
29	Rx Min	1.078800	1.667805	-0.46129	-0.46237	-0.11233	-0.08727
29	Rx Max	-1.07880	-1.66780	-0.71794	0.462369	-0.17486	0.087265
29	Ry Min	3.921775	0.488946	-0.71794	-0.13555	-0.17486	0.008915
29	Ry Max	-3.92177	-0.48895	-0.46129	0.135551	-0.11233	-0.00891
29	Rz Min	1.078800	-1.28664	-0.71794	0.356705	-0.17486	-0.08727
29	Rz Max	-1.07880	1.286638	-0.46129	-0.35671	-0.11233	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
30	X Min	-4.21390	0.300038	-0.47243	-0.08318	-0.11482	0.040594
30	X Max	4.213896	-0.30004	-0.30797	0.083185	-0.07482	-0.04059
30	Y Min	-1.83914	-1.66780	-0.47243	0.462369	-0.11482	0.087265
30	Y Max	1.839145	1.667805	-0.30797	-0.46237	-0.07482	-0.08727
30	Z Min	-3.83479	0.397387	-0.47243	-0.11017	-0.11482	-0.00891
30	Z Max	3.834790	-0.39739	-0.30797	0.110171	-0.07482	0.008915
30	Rx Min	1.839145	1.667805	-0.30797	-0.46237	-0.07482	-0.08727
30	Rx Max	-1.83914	-1.66780	-0.47243	0.462369	-0.11482	0.087265
30	Ry Min	3.671381	-0.53542	-0.47243	0.148436	-0.11482	0.032063
30	Ry Max	-3.67138	0.535424	-0.30797	-0.14844	-0.07482	-0.03206
30	Rz Min	1.839145	-1.28664	-0.47243	0.356705	-0.11482	-0.08727
30	Rz Max	-1.83914	1.286638	-0.30797	-0.35671	-0.07482	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
32	X Min	-4.16830	-0.37252	-0.01340	0.103276	-1.15560	-0.03206
32	X Max	4.168304	0.372517	-0.00885	-0.10328	1.155596	0.032063
32	Y Min	-0.47290	-1.54709	-0.01340	0.428911	-0.13115	0.087265
32	Y Max	0.472902	1.547089	-0.00885	-0.42891	0.131145	-0.08727
32	Z Min	4.168304	0.372517	-0.01340	-0.10328	1.155596	0.032063
32	Z Max	-4.16830	-0.37252	-0.00885	0.103276	-1.15560	-0.03206
32	Rx Min	0.472902	1.547089	-0.01340	-0.42891	0.131145	-0.08727
32	Rx Max	-0.47290	-1.54709	-0.00885	0.428911	-0.13115	0.087265
32	Ry Min	-4.16830	-0.37252	-0.01340	0.103276	-1.15560	-0.03206
32	Ry Max	4.168304	0.372517	-0.00885	-0.10328	1.155596	0.032063
32	Rz Min	0.472902	-1.31189	-0.01340	0.363705	0.131145	-0.08727
32	Rz Max	-0.47290	1.311888	-0.00885	-0.36370	-0.13115	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
34	X Min	-3.94778	-0.37252	-0.02243	0.103276	-1.09447	-0.03206
34	X Max	3.947775	0.372517	-0.01446	-0.10328	1.094472	0.032063
34	Y Min	-1.07880	-1.54709	-0.02243	0.428911	-0.29908	0.087265
34	Y Max	1.078800	1.547089	-0.01446	-0.42891	0.299084	-0.08727
34	Z Min	-3.92177	0.402354	-0.02243	-0.11155	-1.08726	-0.00891
34	Z Max	3.921775	-0.40235	-0.01446	0.111548	1.087264	0.008915
34	Rx Min	1.078800	1.547089	-0.01446	-0.42891	0.299084	-0.08727

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34	Rx Max	-1.07880	-1.54709	-0.02243	0.428911	-0.29908	0.087265
34	Ry Min	-3.94778	-0.37252	-0.02243	0.103276	-1.09447	-0.03206
34	Ry Max	3.947775	0.372517	-0.01446	-0.10328	1.094472	0.032063
34	Rz Min	1.078800	-1.31189	-0.02243	0.363705	0.299084	-0.08727
34	Rz Max	-1.07880	1.311888	-0.01446	-0.36370	-0.29908	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
36	X Min	-4.21390	0.341994	-0.01462	-0.09481	-1.16823	0.040594
36	X Max	4.213896	-0.34199	-0.00957	0.094814	1.168233	-0.04059
36	Y Min	-1.83914	-1.54709	-0.01462	0.428911	-0.50984	0.087265
36	Y Max	1.839145	1.547089	-0.00957	-0.42891	0.509841	-0.08727
36	Z Min	-4.21390	-0.51570	-0.01462	0.142971	-1.16823	0.040593
36	Z Max	4.213896	0.515699	-0.00957	-0.14297	1.168233	-0.04059
36	Rx Min	1.839145	1.547089	-0.00957	-0.42891	0.509841	-0.08727
36	Rx Max	-1.83914	-1.54709	-0.01462	0.428911	-0.50984	0.087265
36	Ry Min	-4.21390	0.341994	-0.01462	-0.09481	-1.16823	0.040594
36	Ry Max	4.213896	-0.34199	-0.00957	0.094814	1.168233	-0.04059
36	Rz Min	1.839145	-1.31189	-0.01462	0.363705	0.509841	-0.08727
36	Rz Max	-1.83914	1.311888	-0.00957	-0.36370	-0.50984	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
37	X Min	-4.16830	-0.40265	-0.43711	0.111629	0.106128	-0.03206
37	X Max	4.168304	0.402646	-0.28733	-0.11163	0.069727	0.032063
37	Y Min	-0.47290	-1.44510	-0.43711	0.400635	0.106128	0.087265
37	Y Max	0.472902	1.445095	-0.28733	-0.40063	0.069727	-0.08727
37	Z Min	-3.76953	-0.42311	-0.43711	0.117303	0.106128	0.017445
37	Z Max	3.769530	0.423112	-0.28733	-0.11730	0.069727	-0.01745
37	Rx Min	0.472902	1.445095	-0.43711	-0.40063	0.106128	-0.08727
37	Rx Max	-0.47290	-1.44510	-0.28733	0.400635	0.069727	0.087265
37	Ry Min	4.168304	-0.44055	-0.28733	0.122136	0.069727	0.032063
37	Ry Max	-4.16830	0.440545	-0.43711	-0.12214	0.106128	-0.03206
37	Rz Min	0.472902	-1.36554	-0.43711	0.378579	0.106128	-0.08727
37	Rz Max	-0.47290	1.365541	-0.28733	-0.37858	0.069727	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
38	X Min	-3.94778	-0.40265	-0.71815	0.111629	0.174954	-0.03206
38	X Max	3.947775	0.402646	-0.46143	-0.11163	0.112384	0.032063
38	Y Min	-1.07880	-1.44510	-0.71815	0.400635	0.174954	0.087265
38	Y Max	1.078800	1.445095	-0.46143	-0.40063	0.112384	-0.08727
38	Z Min	-3.86798	0.392472	-0.71815	-0.10881	0.174954	0.040594
38	Z Max	3.867977	-0.39247	-0.46143	0.108808	0.112384	-0.04059
38	Rx Min	1.078800	1.445095	-0.46143	-0.40063	0.112384	-0.08727
38	Rx Max	-1.07880	-1.44510	-0.71815	0.400635	0.174954	0.087265
38	Ry Min	3.921775	-0.41294	-0.46143	0.114482	0.112384	0.008915
38	Ry Max	-3.92177	0.412938	-0.71815	-0.11448	0.174954	-0.00891
38	Rz Min	1.078800	-1.36554	-0.71815	0.378579	0.174954	-0.08727
38	Rz Max	-1.07880	1.365541	-0.46143	-0.37858	0.112384	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
39	X Min	-4.21390	0.392472	-0.47268	-0.10881	0.114924	0.040594
39	X Max	4.213896	-0.39247	-0.30814	0.108808	0.074886	-0.04059
39	Y Min	-1.83914	-1.44510	-0.47268	0.400635	0.114924	0.087265
39	Y Max	1.839145	1.445095	-0.30814	-0.40063	0.074886	-0.08727
39	Z Min	4.213896	0.450719	-0.47268	-0.12496	0.114924	-0.04059
39	Z Max	-4.21390	-0.45072	-0.30814	0.124956	0.074886	0.040593
39	Rx Min	1.839145	1.445095	-0.30814	-0.40063	0.074886	-0.08727
39	Rx Max	-1.83914	-1.44510	-0.47268	0.400635	0.114924	0.087265

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39	Ry Min	-3.83479	0.412938	-0.30814	-0.11448	0.074886	-0.00891
39	Ry Max	3.834790	-0.41294	-0.47268	0.114482	0.114924	0.008915
39	Rz Min	1.839145	-1.36554	-0.47268	0.378579	0.114924	-0.08727
39	Rz Max	-1.83914	1.365541	-0.30814	-0.37858	0.074886	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
40	X Min	-4.16830	-0.44055	-0.43711	0.122136	-0.10613	-0.03206
40	X Max	4.168304	0.440545	-0.28733	-0.12214	-0.06973	0.032063
40	Y Min	0.472902	-1.44510	-0.43711	0.400635	-0.10613	-0.08727
40	Y Max	-0.47290	1.445095	-0.28733	-0.40063	-0.06973	0.087265
40	Z Min	-3.76953	0.423112	-0.43711	-0.11730	-0.10613	0.017445
40	Z Max	3.769530	-0.42311	-0.28733	0.117303	-0.06973	-0.01745
40	Rx Min	-0.47290	1.445095	-0.43711	-0.40063	-0.10613	0.087265
40	Rx Max	0.472902	-1.44510	-0.28733	0.400635	-0.06973	-0.08727
40	Ry Min	-3.76953	-0.42008	-0.43711	0.116462	-0.10613	0.017445
40	Ry Max	3.769530	0.420079	-0.28733	-0.11646	-0.06973	-0.01745
40	Rz Min	0.472902	-1.44510	-0.43711	0.400635	-0.10613	-0.08727
40	Rz Max	-0.47290	1.445095	-0.28733	-0.40063	-0.06973	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
41	X Min	-3.94778	-0.44055	-0.71815	0.122136	-0.17496	-0.03206
41	X Max	3.947775	0.440545	-0.46143	-0.12214	-0.11238	0.032063
41	Y Min	1.078800	-1.44510	-0.71815	0.400635	-0.17496	-0.08727
41	Y Max	-1.07880	1.445095	-0.46143	-0.40063	-0.11238	0.087265
41	Z Min	-3.86798	-0.39247	-0.71815	0.108808	-0.17496	0.040593
41	Z Max	3.867977	0.392472	-0.46143	-0.10881	-0.11238	-0.04059
41	Rx Min	-1.07880	1.445095	-0.46143	-0.40063	-0.11238	0.087265
41	Rx Max	1.078800	-1.44510	-0.71815	0.400635	-0.17496	-0.08727
41	Ry Min	-3.86798	0.450719	-0.71815	-0.12496	-0.17496	0.040594
41	Ry Max	3.867977	-0.45072	-0.46143	0.124956	-0.11238	-0.04059
41	Rz Min	1.078800	-1.44510	-0.71815	0.400635	-0.17496	-0.08727
41	Rz Max	-1.07880	1.445095	-0.46143	-0.40063	-0.11238	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
42	X Min	-4.21390	0.450719	-0.47267	-0.12496	-0.11492	0.040594
42	X Max	4.213896	-0.45072	-0.30814	0.124956	-0.07489	-0.04059
42	Y Min	1.839145	-1.44510	-0.47267	0.400635	-0.11492	-0.08727
42	Y Max	-1.83914	1.445095	-0.30814	-0.40063	-0.07489	0.087265
42	Z Min	3.834790	-0.43025	-0.47267	0.119282	-0.11492	0.008915
42	Z Max	-3.83479	0.430253	-0.30814	-0.11928	-0.07489	-0.00891
42	Rx Min	-1.83914	1.445095	-0.30814	-0.40063	-0.07489	0.087265
42	Rx Max	1.839145	-1.44510	-0.47267	0.400635	-0.11492	-0.08727
42	Ry Min	4.213896	0.392472	-0.47267	-0.10881	-0.11492	-0.04059
42	Ry Max	-4.21390	-0.39247	-0.30814	0.108808	-0.07489	0.040593
42	Rz Min	1.839145	-1.44510	-0.47267	0.400635	-0.11492	-0.08727
42	Rz Max	-1.83914	1.445095	-0.30814	-0.40063	-0.07489	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
44	X Min	-4.16830	-0.48518	-0.01340	0.134509	-1.15560	-0.03206
44	X Max	4.168304	0.485176	-0.00885	-0.13451	1.155596	0.032063
44	Y Min	0.472902	-1.54709	-0.01340	0.428911	0.131145	-0.08727
44	Y Max	-0.47290	1.547089	-0.00885	-0.42891	-0.13115	0.087265
44	Z Min	-4.16830	0.372517	-0.01340	-0.10328	-1.15560	-0.03206
44	Z Max	4.168304	-0.37252	-0.00885	0.103276	1.155596	0.032063
44	Rx Min	-0.47290	1.547089	-0.01340	-0.42891	-0.13115	0.087265
44	Rx Max	0.472902	-1.54709	-0.00885	0.428911	0.131145	-0.08727
44	Ry Min	-4.16830	-0.48518	-0.01340	0.134509	-1.15560	-0.03206

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44	Ry Max	4.168304	0.485176	-0.00885	-0.13451	1.155596	0.032063
44	Rz Min	0.472902	-1.54709	-0.01340	0.428911	0.131145	-0.08727
44	Rz Max	-0.47290	1.547089	-0.00885	-0.42891	-0.13115	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
46	X Min	-3.94778	-0.48518	-0.02243	0.134509	-1.09447	-0.03206
46	X Max	3.947775	0.485176	-0.01446	-0.13451	1.094472	0.032063
46	Y Min	1.078800	-1.54709	-0.02243	0.428911	0.299084	-0.08727
46	Y Max	-1.07880	1.547089	-0.01446	-0.42891	-0.29908	0.087265
46	Z Min	-3.92177	-0.40235	-0.02243	0.111548	-1.08726	-0.00891
46	Z Max	3.921775	0.402354	-0.01446	-0.11155	1.087264	0.008915
46	Rx Min	-1.07880	1.547089	-0.01446	-0.42891	-0.29908	0.087265
46	Rx Max	1.078800	-1.54709	-0.02243	0.428911	0.299084	-0.08727
46	Ry Min	-3.94778	-0.48518	-0.02243	0.134509	-1.09447	-0.03206
46	Ry Max	3.947775	0.485176	-0.01446	-0.13451	1.094472	0.032063
46	Rz Min	1.078800	-1.54709	-0.02243	0.428911	0.299084	-0.08727
46	Rz Max	-1.07880	1.547089	-0.01446	-0.42891	-0.29908	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
48	X Min	-4.21390	0.515699	-0.01462	-0.14297	-1.16823	0.040594
48	X Max	4.213896	-0.51570	-0.00957	0.142971	1.168233	-0.04059
48	Y Min	1.839145	-1.54709	-0.01462	0.428911	0.509841	-0.08727
48	Y Max	-1.83914	1.547089	-0.00957	-0.42891	-0.50984	0.087265
48	Z Min	-3.83479	-0.40235	-0.01462	0.111548	-1.06315	-0.00891
48	Z Max	3.834790	0.402354	-0.00957	-0.11155	1.063153	0.008915
48	Rx Min	-1.83914	1.547089	-0.00957	-0.42891	-0.50984	0.087265
48	Rx Max	1.839145	-1.54709	-0.01462	0.428911	0.509841	-0.08727
48	Ry Min	-4.21390	0.515699	-0.01462	-0.14297	-1.16823	0.040594
48	Ry Max	4.213896	-0.51570	-0.00957	0.142971	1.168233	-0.04059
48	Rz Min	1.839145	-1.54709	-0.01462	0.428911	0.509841	-0.08727
48	Rz Max	-1.83914	1.547089	-0.00957	-0.42891	-0.50984	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
49	X Min	-4.16830	-0.53542	-0.43711	0.148436	0.106128	-0.03206
49	X Max	4.168304	0.535424	-0.28733	-0.14844	0.069727	0.032063
49	Y Min	0.472902	-1.66781	-0.43711	0.462369	0.106128	-0.08727
49	Y Max	-0.47290	1.667805	-0.28733	-0.46237	0.069727	0.087265
49	Z Min	-3.76953	0.448258	-0.43711	-0.12427	0.106128	0.017445
49	Z Max	3.769530	-0.44826	-0.28733	0.124273	0.069727	-0.01745
49	Rx Min	-0.47290	1.667805	-0.43711	-0.46237	0.106128	0.087265
49	Rx Max	0.472902	-1.66781	-0.28733	0.462369	0.069727	-0.08727
49	Ry Min	-3.59236	-0.30004	-0.28733	0.083185	0.069727	0.040593
49	Ry Max	3.592361	0.300038	-0.43711	-0.08318	0.106128	-0.04059
49	Rz Min	0.472902	-1.66781	-0.43711	0.462369	0.106128	-0.08727
49	Rz Max	-0.47290	1.667805	-0.28733	-0.46237	0.069727	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
50	X Min	-3.94778	-0.53542	-0.71794	0.148436	0.174864	-0.03206
50	X Max	3.947775	0.535424	-0.46129	-0.14844	0.112324	0.032063
50	Y Min	1.078800	-1.66781	-0.71794	0.462369	0.174864	-0.08727
50	Y Max	-1.07880	1.667805	-0.46129	-0.46237	0.112324	0.087265
50	Z Min	3.921775	-0.48895	-0.71794	0.135551	0.174864	0.008915
50	Z Max	-3.92177	0.488946	-0.46129	-0.13555	0.112324	-0.00891
50	Rx Min	-1.07880	1.667805	-0.46129	-0.46237	0.112324	0.087265
50	Rx Max	1.078800	-1.66781	-0.71794	0.462369	0.174864	-0.08727
50	Ry Min	-3.92177	-0.39739	-0.46129	0.110171	0.112324	-0.00891
50	Ry Max	3.921775	0.397387	-0.71794	-0.11017	0.174864	0.008915

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50	Rz Min	1.078800	-1.66781	-0.71794	0.462369	0.174864	-0.08727
50	Rz Max	-1.07880	1.667805	-0.46129	-0.46237	0.112324	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
51	X Min	-4.21390	0.586295	-0.47243	-0.16254	0.114820	0.040594
51	X Max	4.213896	-0.58629	-0.30797	0.162538	0.074817	-0.04059
51	Y Min	1.839145	-1.66781	-0.47243	0.462369	0.114820	-0.08727
51	Y Max	-1.83914	1.667805	-0.30797	-0.46237	0.074817	0.087265
51	Z Min	-3.83479	-0.39739	-0.47243	0.110171	0.114820	-0.00891
51	Z Max	3.834790	0.397387	-0.30797	-0.11017	0.074817	0.008915
51	Rx Min	-1.83914	1.667805	-0.30797	-0.46237	0.074817	0.087265
51	Rx Max	1.839145	-1.66781	-0.47243	0.462369	0.114820	-0.08727
51	Ry Min	3.834790	0.397387	-0.30797	-0.11017	0.074817	0.008915
51	Ry Max	-3.83479	-0.39739	-0.47243	0.110171	0.114820	-0.00891
51	Rz Min	1.839145	-1.66781	-0.47243	0.462369	0.114820	-0.08727
51	Rz Max	-1.83914	1.667805	-0.30797	-0.46237	0.074817	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
52	X Min	-4.16830	-0.59024	-0.43711	0.163629	-0.10613	-0.03206
52	X Max	4.168304	0.590244	-0.28733	-0.16363	-0.06973	0.032063
52	Y Min	0.472902	-1.80376	-0.43711	0.500050	-0.10613	-0.08727
52	Y Max	-0.47290	1.803763	-0.28733	-0.50005	-0.06973	0.087265
52	Z Min	-3.76953	0.468211	-0.43711	-0.12980	-0.10613	0.017445
52	Z Max	3.769530	-0.46821	-0.28733	0.129803	-0.06973	-0.01745
52	Rx Min	-0.47290	1.803763	-0.43711	-0.50005	-0.10613	0.087265
52	Rx Max	0.472902	-1.80376	-0.28733	0.500050	-0.06973	-0.08727
52	Ry Min	-3.76953	0.468211	-0.43711	-0.12980	-0.10613	0.017445
52	Ry Max	3.769530	-0.46821	-0.28733	0.129803	-0.06973	-0.01745
52	Rz Min	0.472902	-1.80376	-0.43711	0.500050	-0.10613	-0.08727
52	Rz Max	-0.47290	1.803763	-0.28733	-0.50005	-0.06973	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
53	X Min	-3.94778	-0.59024	-0.71772	0.163629	-0.17505	-0.03206
53	X Max	3.947775	0.590244	-0.46115	-0.16363	-0.11244	0.032063
53	Y Min	1.078800	-1.80376	-0.71772	0.500050	-0.17505	-0.08727
53	Y Max	-1.07880	1.803763	-0.46115	-0.50005	-0.11244	0.087265
53	Z Min	3.921775	-0.53134	-0.71772	0.147301	-0.17505	0.008915
53	Z Max	-3.92177	0.531342	-0.46115	-0.14730	-0.11244	-0.00891
53	Rx Min	-1.07880	1.803763	-0.46115	-0.50005	-0.11244	0.087265
53	Rx Max	1.078800	-1.80376	-0.71772	0.500050	-0.17505	-0.08727
53	Ry Min	3.867977	0.266870	-0.71772	-0.07399	-0.17505	-0.04059
53	Ry Max	-3.86798	-0.26687	-0.46115	0.073991	-0.11244	0.040593
53	Rz Min	1.078800	-1.80376	-0.71772	0.500050	-0.17505	-0.08727
53	Rz Max	-1.07880	1.803763	-0.46115	-0.50005	-0.11244	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
54	X Min	-4.21390	0.661464	-0.47218	-0.18337	-0.11503	0.040594
54	X Max	4.213896	-0.66146	-0.30781	0.183371	-0.07495	-0.04059
54	Y Min	1.839145	-1.80376	-0.47218	0.500050	-0.11503	-0.08727
54	Y Max	-1.83914	1.803763	-0.30781	-0.50005	-0.07495	0.087265
54	Z Min	4.050486	-0.46821	-0.47218	0.129803	-0.11503	-0.01745
54	Z Max	-4.05049	0.468211	-0.30781	-0.12980	-0.07495	0.017445
54	Rx Min	-1.83914	1.803763	-0.30781	-0.50005	-0.07495	0.087265
54	Rx Max	1.839145	-1.80376	-0.47218	0.500050	-0.11503	-0.08727
54	Ry Min	-3.83479	-0.39699	-0.47218	0.110061	-0.11503	-0.00891
54	Ry Max	3.834790	0.396992	-0.30781	-0.11006	-0.07495	0.008915
54	Rz Min	1.839145	-1.80376	-0.47218	0.500050	-0.11503	-0.08727

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54	Rz Max	-1.83914	1.803763	-0.30781	-0.50005	-0.07495	0.087265
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N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
56	X Min	-4.16830	-0.64874	-0.01340	0.179841	-1.15560	-0.03206
56	X Max	4.168304	0.648739	-0.00885	-0.17984	1.155596	0.032063
56	Y Min	0.472902	-1.95197	-0.01340	0.541125	0.131145	-0.08727
56	Y Max	-0.47290	1.951968	-0.00885	-0.54112	-0.13115	0.087265
56	Z Min	-4.16830	0.333764	-0.01340	-0.09253	-1.15560	-0.03206
56	Z Max	4.168304	-0.33376	-0.00885	0.092532	1.155596	0.032063
56	Rx Min	-0.47290	1.951968	-0.01340	-0.54112	-0.13115	0.087265
56	Rx Max	0.472902	-1.95197	-0.00885	0.541125	0.131145	-0.08727
56	Ry Min	-4.16830	-0.64874	-0.01340	0.179841	-1.15560	-0.03206
56	Ry Max	4.168304	0.648739	-0.00885	-0.17984	1.155596	0.032063
56	Rz Min	0.472902	-1.95197	-0.01340	0.541125	0.131145	-0.08727
56	Rz Max	-0.47290	1.951968	-0.00885	-0.54112	-0.13115	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
58	X Min	-3.94778	-0.64874	-0.02178	0.179841	-1.09447	-0.03206
58	X Max	3.947775	0.648739	-0.01403	-0.17984	1.094472	0.032063
58	Y Min	1.078800	-1.95197	-0.02178	0.541125	0.299084	-0.08727
58	Y Max	-1.07880	1.951968	-0.01403	-0.54112	-0.29908	0.087265
58	Z Min	3.867977	0.242196	-0.02178	-0.06715	1.072349	-0.04059
58	Z Max	-3.86798	-0.24220	-0.01403	0.067150	-1.07235	0.040593
58	Rx Min	-1.07880	1.951968	-0.01403	-0.54112	-0.29908	0.087265
58	Rx Max	1.078800	-1.95197	-0.02178	0.541125	0.299084	-0.08727
58	Ry Min	-3.94778	-0.64874	-0.02178	0.179841	-1.09447	-0.03206
58	Ry Max	3.947775	0.648739	-0.01403	-0.17984	1.094472	0.032063
58	Rz Min	1.078800	-1.95197	-0.02178	0.541125	0.299084	-0.08727
58	Rz Max	-1.07880	1.951968	-0.01403	-0.54112	-0.29908	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
60	X Min	-4.21390	0.740306	-0.01388	-0.20522	-1.16823	0.040594
60	X Max	4.213896	-0.74031	-0.00909	0.205223	1.168233	-0.04059
60	Y Min	1.839145	-1.95197	-0.01388	0.541125	0.509841	-0.08727
60	Y Max	-1.83914	1.951968	-0.00909	-0.54112	-0.50984	0.087265
60	Z Min	-3.83479	-0.40027	-0.01388	0.110969	-1.06315	-0.00891
60	Z Max	3.834790	0.400272	-0.00909	-0.11097	1.063153	0.008915
60	Rx Min	-1.83914	1.951968	-0.00909	-0.54112	-0.50984	0.087265
60	Rx Max	1.839145	-1.95197	-0.01388	0.541125	0.509841	-0.08727
60	Ry Min	-4.21390	0.740306	-0.01388	-0.20522	-1.16823	0.040594
60	Ry Max	4.213896	-0.74031	-0.00909	0.205223	1.168233	-0.04059
60	Rz Min	1.839145	-1.95197	-0.01388	0.541125	0.509841	-0.08727
60	Rz Max	-1.83914	1.951968	-0.00909	-0.54112	-0.50984	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
61	X Min	-4.16830	-0.71017	-0.43507	0.179841	0.105269	-0.03206
61	X Max	4.168304	0.710171	-0.28599	-0.17984	0.069164	0.032063
61	Y Min	0.472902	-2.10997	-0.43507	0.541125	0.105269	-0.08727
61	Y Max	-0.47290	2.109967	-0.28599	-0.54112	0.069164	0.087265
61	Z Min	-3.76953	-0.52893	-0.43507	0.136023	0.105269	0.017445
61	Z Max	3.769530	0.528927	-0.28599	-0.13602	0.069164	-0.01745
61	Rx Min	-0.47290	2.109967	-0.43507	-0.54112	0.105269	0.087265
61	Rx Max	0.472902	-2.10997	-0.28599	0.541125	0.069164	-0.08727
61	Ry Min	4.168304	0.710171	-0.28599	-0.17984	0.069164	0.032063
61	Ry Max	-4.16830	-0.71017	-0.43507	0.179841	0.105269	-0.03206
61	Rz Min	0.472902	-2.10997	-0.43507	0.541125	0.105269	-0.08727
61	Rz Max	-0.47290	2.109967	-0.28599	-0.54112	0.069164	0.087265

**VALBONDIONE
TERRAZZA ESTERNA**

FASCICOLO DEI CALCOLI

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
62	X Min	-3.94778	-0.71017	-0.61923	0.179841	0.143917	-0.03206
62	X Max	3.947775	0.710171	-0.39658	-0.17984	0.092040	0.032063
62	Y Min	1.078800	-2.10997	-0.61923	0.541125	0.143917	-0.08727
62	Y Max	-1.07880	2.109967	-0.39658	-0.54112	0.092040	0.087265
62	Z Min	-1.08660	-1.47224	-0.61923	0.387448	0.143917	0.080321
62	Z Max	1.086601	1.472244	-0.39658	-0.38745	0.092040	-0.08032
62	Rx Min	-1.07880	2.109967	-0.39658	-0.54112	0.092040	0.087265
62	Rx Max	1.078800	-2.10997	-0.61923	0.541125	0.143917	-0.08727
62	Ry Min	3.947775	-0.33716	-0.39658	0.092532	0.092040	0.032063
62	Ry Max	-3.94778	0.337161	-0.61923	-0.09253	0.143917	-0.03206
62	Rz Min	1.078800	-2.10997	-0.61923	0.541125	0.143917	-0.08727
62	Rz Max	-1.07880	2.109967	-0.39658	-0.54112	0.092040	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
63	X Min	-4.21390	0.822087	-0.36017	-0.20522	0.079744	0.040594
63	X Max	4.213896	-0.82209	-0.23402	0.205223	0.051711	-0.04059
63	Y Min	1.839145	-2.10997	-0.36017	0.541125	0.079744	-0.08727
63	Y Max	-1.83914	2.109967	-0.23402	-0.54112	0.051711	0.087265
63	Z Min	-3.83479	-0.40649	-0.36017	0.110969	0.079744	-0.00891
63	Z Max	3.834790	0.406489	-0.23402	-0.11097	0.051711	0.008915
63	Rx Min	-1.83914	2.109967	-0.23402	-0.54112	0.051711	0.087265
63	Rx Max	1.839145	-2.10997	-0.36017	0.541125	0.079744	-0.08727
63	Ry Min	3.834790	0.406489	-0.23402	-0.11097	0.051711	0.008915
63	Ry Max	-3.83479	-0.40649	-0.36017	0.110969	0.079744	-0.00891
63	Rz Min	1.839145	-2.10997	-0.36017	0.541125	0.079744	-0.08727
63	Rz Max	-1.83914	2.109967	-0.23402	-0.54112	0.051711	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
64	X Min	-4.16830	-0.77395	-0.43302	0.179841	-0.10699	-0.03206
64	X Max	4.168304	0.773954	-0.28465	-0.17984	-0.07029	0.032063
64	Y Min	0.472902	-2.27580	-0.43302	0.541125	-0.10699	-0.08727
64	Y Max	-0.47290	2.275801	-0.28465	-0.54112	-0.07029	0.087265
64	Z Min	-4.16830	-0.77395	-0.43302	0.179841	-0.10699	-0.03206
64	Z Max	4.168304	0.773954	-0.28465	-0.17984	-0.07029	0.032063
64	Rx Min	-0.47290	2.275801	-0.43302	-0.54112	-0.10699	0.087265
64	Rx Max	0.472902	-2.27580	-0.28465	0.541125	-0.07029	-0.08727
64	Ry Min	-3.76953	-0.57387	-0.43302	0.136023	-0.10699	0.017445
64	Ry Max	3.769530	0.573866	-0.28465	-0.13602	-0.07029	-0.01745
64	Rz Min	0.472902	-2.27580	-0.43302	0.541125	-0.10699	-0.08727
64	Rz Max	-0.47290	2.275801	-0.28465	-0.54112	-0.07029	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
65	X Min	-3.94778	-0.77395	-0.59368	0.179841	-0.16026	-0.03206
65	X Max	3.947775	0.773954	-0.37985	-0.17984	-0.10273	0.032063
65	Y Min	1.078800	-2.27580	-0.59368	0.541125	-0.16026	-0.08727
65	Y Max	-1.07880	2.275801	-0.37985	-0.54112	-0.10273	0.087265
65	Z Min	-3.94778	0.347234	-0.59368	-0.09253	-0.16026	-0.03206
65	Z Max	3.947775	-0.34723	-0.37985	0.092532	-0.10273	0.032063
65	Rx Min	-1.07880	2.275801	-0.37985	-0.54112	-0.10273	0.087265
65	Rx Max	1.078800	-2.27580	-0.59368	0.541125	-0.16026	-0.08727
65	Ry Min	-1.08660	-1.56916	-0.59368	0.387448	-0.16026	0.080321
65	Ry Max	1.086601	1.569162	-0.37985	-0.38745	-0.10273	-0.08032
65	Rz Min	1.078800	-2.27580	-0.59368	0.541125	-0.16026	-0.08727
65	Rz Max	-1.07880	2.275801	-0.37985	-0.54112	-0.10273	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
66	X Min	-4.21390	0.906219	-0.33195	-0.20522	-0.09756	0.040594
66	X Max	4.213896	-0.90622	-0.21544	0.205223	-0.06344	-0.04059
66	Y Min	1.839145	-2.27580	-0.33195	0.541125	-0.09756	-0.08727
66	Y Max	-1.83914	2.275801	-0.21544	-0.54112	-0.06344	0.087265
66	Z Min	-3.83479	-0.41506	-0.33195	0.110969	-0.09756	-0.00891
66	Z Max	3.834790	0.415058	-0.21544	-0.11097	-0.06344	0.008915
66	Rx Min	-1.83914	2.275801	-0.21544	-0.54112	-0.06344	0.087265
66	Rx Max	1.839145	-2.27580	-0.33195	0.541125	-0.09756	-0.08727
66	Ry Min	-4.21390	0.906219	-0.33195	-0.20522	-0.09756	0.040594
66	Ry Max	4.213896	-0.90622	-0.21544	0.205223	-0.06344	-0.04059
66	Rz Min	1.839145	-2.27580	-0.33195	0.541125	-0.09756	-0.08727
66	Rz Max	-1.83914	2.275801	-0.21544	-0.54112	-0.06344	0.087265
N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
67	X Min	-4.19978	-0.83963	0.	0.	0.	-0.03206
67	X Max	4.199776	0.839627	0.	0.	0.	0.032063
67	Y Min	0.386434	-2.44794	0.	0.	0.	-0.08727
67	Y Max	-0.38643	2.447936	0.	0.	0.	0.087265
67	Z Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Z Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Rx Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Rx Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Ry Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Ry Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
67	Rz Min	0.386434	-2.44794	0.	0.	0.	-0.08727
67	Rz Max	-0.38643	2.447936	0.	0.	0.	0.087265
N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
69	X Min	-4.16830	-0.83963	-0.00725	0.179841	-0.21540	-0.03206
69	X Max	4.168304	0.839627	-0.00482	-0.17984	-0.14164	0.032063
69	Y Min	0.472902	-2.44794	-0.00725	0.541125	-0.21540	-0.08727
69	Y Max	-0.47290	2.447936	-0.00482	-0.54112	-0.14164	0.087265
69	Z Min	-4.16830	-0.83963	-0.00725	0.179841	-0.21540	-0.03206
69	Z Max	4.168304	0.839627	-0.00482	-0.17984	-0.14164	0.032063
69	Rx Min	-0.47290	2.447936	-0.00725	-0.54112	-0.21540	0.087265
69	Rx Max	0.472902	-2.44794	-0.00482	0.541125	-0.14164	-0.08727
69	Ry Min	-3.99113	0.776980	-0.00725	-0.16140	-0.21540	-0.00891
69	Ry Max	3.991135	-0.77698	-0.00482	0.161404	-0.14164	0.008915
69	Rz Min	0.472902	-2.44794	-0.00725	0.541125	-0.21540	-0.08727
69	Rz Max	-0.47290	2.447936	-0.00482	-0.54112	-0.14164	0.087265
N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
70	X Min	-4.03032	-0.83963	-0.84923	0.125877	-0.24279	-0.03206
70	X Max	4.030320	0.839627	-0.54237	0.080664	-0.15646	0.032063
70	Y Min	0.852057	-2.44794	-0.84923	0.125877	-0.24279	-0.08727
70	Y Max	-0.85206	2.447936	-0.54237	0.080664	-0.15646	0.087265
70	Z Min	-4.03032	-0.83963	-0.84923	0.125877	-0.24279	-0.03206
70	Z Max	4.030320	0.839627	-0.54237	0.080664	-0.15646	0.032063
70	Rx Min	4.030320	0.839627	-0.54237	0.080664	-0.15646	0.032063
70	Rx Max	-4.03032	-0.83963	-0.84923	0.125877	-0.24279	-0.03206
70	Ry Min	-0.87688	-1.68462	-0.84923	0.125877	-0.24279	0.080321
70	Ry Max	0.876875	1.684618	-0.54237	0.080664	-0.15646	-0.08032
70	Rz Min	0.852057	-2.44794	-0.84923	0.125877	-0.24279	-0.08727
70	Rz Max	-0.85206	2.447936	-0.54237	0.080664	-0.15646	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
72	X Min	-3.94778	-0.83963	-0.01785	0.179841	-0.25923	-0.03206
72	X Max	3.947775	0.839627	-0.01156	-0.17984	-0.16535	0.032063
72	Y Min	1.078800	-2.44794	-0.01785	0.541125	-0.25923	-0.08727
72	Y Max	-1.07880	2.447936	-0.01156	-0.54112	-0.16535	0.087265
72	Z Min	-3.94778	0.362869	-0.01785	-0.09253	-0.25923	-0.03206
72	Z Max	3.947775	-0.36287	-0.01156	0.092532	-0.16535	0.032063
72	Rx Min	-1.07880	2.447936	-0.01156	-0.54112	-0.16535	0.087265
72	Rx Max	1.078800	-2.44794	-0.01785	0.541125	-0.25923	-0.08727
72	Ry Min	-3.94778	0.362869	-0.01785	-0.09253	-0.25923	-0.03206
72	Ry Max	3.947775	-0.36287	-0.01156	0.092532	-0.16535	0.032063
72	Rz Min	1.078800	-2.44794	-0.01785	0.541125	-0.25923	-0.08727
72	Rz Max	-1.07880	2.447936	-0.01156	-0.54112	-0.16535	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
74	X Min	-4.21390	0.992240	-0.01278	-0.20522	-0.12640	0.040594
74	X Max	4.213896	-0.99224	-0.00840	0.205223	-0.08171	-0.04059
74	Y Min	1.839145	-2.44794	-0.01278	0.541125	-0.12640	-0.08727
74	Y Max	-1.83914	2.447936	-0.00840	-0.54112	-0.08171	0.087265
74	Z Min	3.671381	0.839627	-0.01278	-0.17984	-0.12640	0.032063
74	Z Max	-3.67138	-0.83963	-0.00840	0.179841	-0.08171	-0.03206
74	Rx Min	-1.83914	2.447936	-0.00840	-0.54112	-0.08171	0.087265
74	Rx Max	1.839145	-2.44794	-0.01278	0.541125	-0.12640	-0.08727
74	Ry Min	4.050486	-0.57813	-0.01278	0.136351	-0.12640	-0.01745
74	Ry Max	-4.05049	0.578129	-0.00840	-0.13635	-0.08171	0.017445
74	Rz Min	1.839145	-2.44794	-0.01278	0.541125	-0.12640	-0.08727
74	Rz Max	-1.83914	2.447936	-0.00840	-0.54112	-0.08171	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
75	X Min	-4.03032	-0.90352	0.	0.	0.	-0.03206
75	X Max	4.030320	0.903521	0.	0.	0.	0.032063
75	Y Min	0.852057	-2.61642	0.	0.	0.	-0.08727
75	Y Max	-0.85206	2.616420	0.	0.	0.	0.087265
75	Z Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Z Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Rx Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Rx Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Ry Min	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Ry Max	-2.2e-18	-1.4e-17	0.	0.	0.	-2.8e-21
75	Rz Min	0.852057	-2.61642	0.	0.	0.	-0.08727
75	Rz Max	-0.85206	2.616420	0.	0.	0.	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
76	X Min	-3.94778	-0.90352	0.504968	0.179841	-0.21611	-0.03206
76	X Max	3.947775	0.903521	0.320906	-0.17984	-0.13721	0.032063
76	Y Min	1.078800	-2.61642	0.504968	0.541125	-0.21611	-0.08727
76	Y Max	-1.07880	2.616420	0.320906	-0.54112	-0.13721	0.087265
76	Z Min	1.086601	1.808484	0.320906	-0.38745	-0.13721	-0.08032
76	Z Max	-1.08660	-1.80848	0.504968	0.387448	-0.21611	0.080321
76	Rx Min	-1.07880	2.616420	0.320906	-0.54112	-0.13721	0.087265
76	Rx Max	1.078800	-2.61642	0.504968	0.541125	-0.21611	-0.08727
76	Ry Min	-1.08660	-1.80848	0.504968	0.387448	-0.21611	0.080321
76	Ry Max	1.086601	1.808484	0.320906	-0.38745	-0.13721	-0.08032
76	Rz Min	1.078800	-2.61642	0.504968	0.541125	-0.21611	-0.08727
76	Rz Max	-1.07880	2.616420	0.320906	-0.54112	-0.13721	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
77	X Min	-4.21390	1.075490	0.201322	-0.20522	-0.07899	0.040594
77	X Max	4.213896	-1.07549	0.129281	0.205223	-0.05064	-0.04059
77	Y Min	1.839145	-2.61642	0.201322	0.541125	-0.07899	-0.08727
77	Y Max	-1.83914	2.616420	0.129281	-0.54112	-0.05064	0.087265
77	Z Min	4.213896	-1.07549	0.129281	0.205223	-0.05064	-0.04059
77	Z Max	-4.21390	1.075490	0.201322	-0.20522	-0.07899	0.040594
77	Rx Min	-1.83914	2.616420	0.129281	-0.54112	-0.05064	0.087265
77	Rx Max	1.839145	-2.61642	0.201322	0.541125	-0.07899	-0.08727
77	Ry Min	-3.67138	-0.90352	0.201322	0.179841	-0.07899	-0.03206
77	Ry Max	3.671381	0.903521	0.129281	-0.17984	-0.05064	0.032063
77	Rz Min	1.839145	-2.61642	0.201322	0.541125	-0.07899	-0.08727
77	Rz Max	-1.83914	2.616420	0.129281	-0.54112	-0.05064	0.087265

N	CdC	X (cm)	Y (cm)	Z (cm)	Rx (°)	Ry (°)	Rz (°)
78	X Min	-4.23810	1.075490	0.	0.	0.	0.040594
78	X Max	4.238098	-1.07549	0.	0.	0.	-0.04059
78	Y Min	1.892262	-2.61642	0.	0.	0.	-0.08727
78	Y Max	-1.89226	2.616420	0.	0.	0.	0.087265
78	Z Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Z Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Rx Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Rx Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Ry Min	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Ry Max	-2.1e-18	-1.4e-17	0.	0.	0.	-2.8e-21
78	Rz Min	1.892262	-2.61642	0.	0.	0.	-0.08727
78	Rz Max	-1.89226	2.616420	0.	0.	0.	0.087265

Massimi spostamenti rilevati per l'involuppo ~SL18 SLV Sism. Orizz. Sicurezza

Spostamento lungo X: Nodo n°4 Valore -4.2381 cm
 Spostamento lungo Y: Nodo n°1 Valore -2.61642 cm
 Spostamento lungo Z: Nodo n°8 Valore -0.849232 cm
 Rotazione attorno X: Nodo n°14 Valore 0.541125 °
 Rotazione attorno Y: Nodo n°24 Valore -1.16823 °
 Rotazione attorno Z: Nodo n°1 Valore -0.0872653 °

4. VERIFICHE

4.1 VERIFICHE SU ELEMENTI TIPO BEAM - TRUSS

A seguito verranno indicate le verifiche più gravose per ogni sezione base o armatura

4.1.1 DESCRIZIONE SET INVILUPPI DI VERIFICA

Di seguito sono descritti i set involuppi di verifica utilizzati:

DESCRIZIONE SET INVILUPPI DI VERIFICA “~SL18”

E' costituito dai seguenti involuppi:

- Involuppi S.L.U. secondo il DM 17/01/2018

Descrizione Involuppo “~SL18 STR SLV”

Agisce su tutte le entità del modello.

Condizioni di involuppo automatiche

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Involuppo	~SL18 STR SLV_1	Perm.non Contemp.	1	1	1
Involuppo	~SL18 STR SLV_2	Perm.non Contemp.	1	1	1
Involuppo	~SL18 SLU Sism. Orizz._1	Perm.non Contemp.	1	1	1
Involuppo	~SL18 SLU Sism. Orizz._2	Perm.non Contemp.	1	1	1

Descrizione degli involuppi contenuti nell’involuppo “~SL18 STR SLV”

Descrizione involuppo “~SL18 STR SLV_1”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1.3
CdC elem. 2St	CdC n. 2	Permanente		0.8	1.5
CdC elem. 3St	CdC n. 3	Variabile		0	1.5
CdC elem. 4St	VENTO X	Var.non Contemp.	3	-0.9	0.9
CdC elem. 5St	VENTO Y	Var.non Contemp.	3	-0.9	0.9
CdC elem. 6St	VENTO Y-	Var.non Contemp.	3	0	0.9

Descrizione involuppo “~SL18 STR SLV_2”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1.3
CdC elem. 2St	CdC n. 2	Permanente		0.8	1.5
CdC elem. 3St	CdC n. 3	Variabile		0	1.05
CdC elem. 4St	VENTO X	Var.non Contemp.	3	-1.5	1.5
CdC elem. 5St	VENTO Y	Var.non Contemp.	3	-1.5	1.5
CdC elem. 6St	VENTO Y-	Var.non Contemp.	3	0	1.5

Descrizione involuppo “~SL18 SLU Sism. Orizz._1”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Permanente		0.8	1
CdC elem. 3St	CdC n. 3	Variabile		0	0.6
CdC elem. 9Dy	Sisma SLV X Dx	Var.non Contemp.	4	-1	1
CdC elem. 10Dy	Sisma SLV X Sx	Var.non Contemp.	4	-1	1
CdC elem. 11Dy	Sisma SLV Y Dx	Var.non Contemp.	5	-0.3	0.3
CdC elem. 12Dy	Sisma SLV Y Sx	Var.non Contemp.	5	-0.3	0.3

Descrizione involuppo “~SL18 SLU Sism. Orizz._2”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Permanente		0.8	1
CdC elem. 3St	CdC n. 3	Variabile		0	0.6
CdC elem. 9Dy	Sisma SLV X Dx	Var.non Contemp.	4	-0.3	0.3
CdC elem. 10Dy	Sisma SLV X Sx	Var.non Contemp.	4	-0.3	0.3
CdC elem. 11Dy	Sisma SLV Y Dx	Var.non Contemp.	5	-1	1
CdC elem. 12Dy	Sisma SLV Y Sx	Var.non Contemp.	5	-1	1

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4.1.2 VERIFICHE S.L.U. ACCIAIO

Significato dei parametri:

Ver: assume il seguente significato:

- 1 inviluppo che determina lo sforzo normale massimo negativo
- 2 inviluppo che determina lo sforzo normale massimo positivo
- 3 inviluppo che determina il taglio 1-2 massimo negativo
- 4 inviluppo che determina il taglio 1-2 massimo positivo
- 5 inviluppo che determina il taglio 1-3 massimo negativo
- 6 inviluppo che determina il taglio 1-3 massimo positivo
- 7 inviluppo che determina il momento torcente massimo negativo
- 8 inviluppo che determina il momento torcente massimo positivo
- 9 inviluppo che determina il momento flettente 1-2 massimo negativo
- 10 inviluppo che determina il momento flettente 1-2 massimo positivo
- 11 inviluppo che determina il momento flettente 1-3 massimo negativo
- 12 inviluppo che determina il momento flettente 1-3 massimo positivo
- 17 inviluppo che determina S1 massimo negativo
- 18 inviluppo che determina S1 massimo positivo
- 19 inviluppo che determina S2 massimo negativo
- 20 inviluppo che determina S2 massimo positivo
- 21 inviluppo che determina S3 massimo negativo
- 22 inviluppo che determina S3 massimo positivo
- 23 inviluppo che determina S4 massimo negativo
- 24 inviluppo che determina S4 massimo positivo

I simboli S1, S2, S3, S4 indicano la “sigma combinata” e si riferiscono al calcolo della tensione fittizia valutata in ipotesi di linearità del comportamento del materiale e resistenza indefinita, la cui massimizzazione individua la più probabile verifica peggiore a pressoflessione, valutata con la formula (sigma positiva indica trazione)

$$\sigma_{id} = \frac{N}{A} \pm \frac{M_{12}}{W_{12}} \pm \frac{M_{13}}{W_{13}}$$

(W sono i moduli di resistenza) sui quattro spigoli del rettangolo ideale con moduli di resistenza pari a quelli della sezione base dell’asta.

Dist: indica la distanza dal punto di inizio beam della sezione verificata

Sollecitazioni di verifica:

N = sforzo normale agente in direzione dell’asse locale 1

V_{12}, V_{13} = tagli agenti in direzione 2 e 3
 M_{12}, M_{13} = momenti agenti nei piani 12 e 13
 MT = momento torcente

Le verifiche di resistenza e instabilità seguono le indicazioni per il calcolo agli stati limite ultimi del paragrafo 4.2 del DM 17/01/2018 e del cap.6 di EN1993-1-1:2005.

In base alla classe della sezione (par.4.2.3.1 DM2018) si adotta la seguente metodologia di verifica:

Sezioni compatte: Classi 1-2, verifica plastica
Sezioni moderatamente snelle: Classe 3, verifica elastica
Sezioni snelle: Classe 4, non verificate; possono essere forzate ad essere considerate come sezioni di classe 3, con conseguente verifica elastica.

Le sezioni snelle sono soggette a fenomeni di imbozzamento locali, pertanto devono essere effettuate analisi locali sui singoli elementi costituenti la sezione (EN 1993-1-5), tali verifiche non sono eseguite in automatico da CMP.

VERIFICHE DI RESISTENZA:

ArmNMT = indica il tratto di armatura interessato dalla verifica di resistenza a pressoflessione deviata, taglio e torsione
CoeffRes = coeff.di sfruttamento di resistenza pari, per le classi 1 e 2, al massimo tra CoeffMN, CoeffV e CoeffT, mentre per le classi 3 e 4 è calcolato come rapporto tensionale elastico (eq.4.2.4 par.4.2.4.1.2 DM2018 e par.6.2.1(5) EC3).
CoeffMN = coeff. di sfruttamento di resistenza a pressoflessione deviata (par.4.2.4.1.2 DM2018 e par.6.2.1(5,7) EC3))
CoeffV = coeff. di sfruttamento di resistenza a taglio (par.4.2.4.1.2 DM2018 e par.6.2.6 EC3); le verifiche di resistenza al taglio sono differenziate tra il caso di sezioni di classe 1 e 2, per le quali coeffV è calcolato come la somma del rapporto tra taglio agente e resistente in direzione 2 e 3, e le sezioni di classe 3 e 4, per le quali coeffV è calcolato come rapporto tensionale.
CoeffT = coefficiente di sfruttamento di resistenza a torsione (par. 4.2.4.1.2 DM2018 e par.6.2.7 EC3)
Classe = classificazione della sezione (par.4.2.3.1 DM2018)

Un asterisco a fianco di un record individua le verifiche non soddisfatte (CoeffMN>1, CoeffV>1, CoeffT>1)

VERIFICHE DI INSTABILITA':

Per le verifiche di instabilità si usa sempre la sezione base.

CoeffN = coefficiente di sfruttamento d'instabilità a compressione (par.4.2.4.1.3.1 DM2018 e par.6.3.1 EC3)
CoeffNM12, CoeffNM13 = coefficiente di sfruttamento d'instabilità flessotorsionale piano 12 e 13 (par.4.2.4.1.3.2 DM2018 ed eq.6.61 e 6.62 par.6.3.3 EC3); per i fattori di interazione viene applicato l'Annex B dell'EC3.
Classe = classificazione della sezione (par.4.2.3.1 DM2018)

Lrif = lunghezza di riferimento per le verifiche di instabilità su cui si valuta la forma del diagramma del momento sia per il piano di sbandamento 12 e sia 13.

Per il momento M_{cr} del par.4.2.4.1.3.2 DM2018 (e par.6.3 EC3), poiché non è specificato come calcolarlo, si è adottato il metodo del par.4.3 del BS 5950-1:2000.

Un asterisco a fianco di un record individua le verifiche non soddisfatte (CoeffN>1, CoeffNM12>1, CoeffNM13>1)

4.1.2.1 Verifica di Resistenza “~PressoFless.Acciaio SLU”

Tipo Verifica: verifiche allo stato limite ultimo secondo il DM 17/01/2018.

Origine del sistema di riferimento delle sollecitazioni: nel baricentro della sezione base omogenizzata;

Set Inviluppo di Verifica utilizzato: “~SL18”

Gruppo di Selezione su cui agisce la verifica: ~ACCIAIO

Resistenza materiali per sezioni di Classe 1-2-3-4 per verifiche SLU (t = spessore sezione)

ID Materiale	Nome materiale	fy (t<40mm) (N/mm ²)	fy (t>40mm) (N/mm ²)	γ _{M0}
n.28	S 235	235	215	1.05

Il CoeffV, per le sezioni di classe 1 e 2 e differenti da tubolari e a doppio T è valutato anche con il rapporto tensionale tangenziale elastico.

Beam n.1 - Sezione “Travetti HEA160 [HEA 160]”

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Ver	Dist (m)	N (kN)	V12 (kN)	V13 (kN)	M12 (kNm)	M13 (kNm)	MT (kNm)	ArmNMT
	CoeffRes	CoeffMN	CoeffV	CoeffT	Classe			
Massimo CoeffT:								
5	2.60	0.00	0.00	-0.97	0.00	30.38	-0.01	0
	0.5537	0.5537	0.0057	0.0046	1			

Beam n.4 - Sezione “Pilastri HEB 240 [HEB 240]”

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Ver	Dist (m)	N (kN)	V12 (kN)	V13 (kN)	M12 (kNm)	M13 (kNm)	MT (kNm)	ArmNMT
	CoeffRes	CoeffMN	CoeffV	CoeffT	Classe			
Massimo CoeffT:								
5	0.00	-39.85	-3.20	-32.92	9.91	102.06	-0.02	0
	0.4598	0.4598	0.0798	0.0030	1			

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Beam n.9 - Sezione "Pilastrini HEB 240 [HEB 240]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Ver	Dist (m)	N (kN)	V12 (kN)	V13 (kN)	M12 (kNm)	M13 (kNm)	MT (kNm)	ArmNMT
	CoeffRes	CoeffMN	CoeffV	CoeffT	Classe			
Massimo CoeffMN:								
19	0.00	-93.05	-23.14	-13.97	71.73	43.31	-0.01	0
	0.7516	0.7516	0.0545	0.0015	1			
Massimo CoeffV:								
5	0.00	-68.72	-9.62	-32.92	29.82	102.06	-0.02	0
	0.5732	0.5732	0.0859	0.0030	1			
Massimo CoeffRes:								
19	0.00	-93.05	-23.14	-13.97	71.73	43.31	-0.01	0
	0.7516	0.7516	0.0545	0.0015	1			

Beam n.46 - Sezione "Trave HEA 240 [HEA 240]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Ver	Dist (m)	N (kN)	V12 (kN)	V13 (kN)	M12 (kNm)	M13 (kNm)	MT (kNm)	ArmNMT
	CoeffRes	CoeffMN	CoeffV	CoeffT	Classe			
Massimo CoeffT:								
7	0.00	0.00	0.00	26.44	0.00	0.00	-0.01	0
	0.0814	0.0000	0.0814	0.0031	1			

Beam n.52 - Sezione "Trave HEA 240 [HEA 240]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Ver	Dist (m)	N (kN)	V12 (kN)	V13 (kN)	M12 (kNm)	M13 (kNm)	MT (kNm)	ArmNMT
	CoeffRes	CoeffMN	CoeffV	CoeffT	Classe			
Massimo CoeffMN:								
19	0.60	0.00	0.06	0.07	0.05	124.85	0.00	0
	0.7492	0.7492	0.0003	0.0000	1			
Massimo CoeffRes:								
19	0.60	0.00	0.06	0.07	0.05	124.85	0.00	0
	0.7492	0.7492	0.0003	0.0000	1			

Beam n.86 - Sezione "Travetti HEA160 [HEA 160]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

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Sezione Base fino a fine asta

Tipo Sezione: Laminato

Ver	Dist (m)	N (kN)	V12 (kN)	V13 (kN)	M12 (kNm)	M13 (kNm)	MT (kNm)	ArmNMT
	CoeffRes	CoeffMN	CoeffV	CoeffT	Classe			
Massimo CoeffV:								
5	5.00	0.00	0.00	-50.09	0.00	0.00	-0.00	0
	0.2936	0.0000	0.2936	0.0022	1			

Beam n.93 - Sezione "Trave HEA 240 [HEA 240]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Ver	Dist (m)	N (kN)	V12 (kN)	V13 (kN)	M12 (kNm)	M13 (kNm)	MT (kNm)	ArmNMT
	CoeffRes	CoeffMN	CoeffV	CoeffT	Classe			
Massimo CoeffV:								
20	1.37	0.00	-0.49	-99.65	-0.11	-32.32	0.00	0
	0.3070	0.1940	0.3070	0.0000	1			

4.1.2.2 Verifica di Instabilità "~PressoFless.Acciaio SLU"

Origine del sistema di riferimento delle sollecitazioni: nel baricentro della sezione base omogenizzata;

Set Inviluppo di Verifica utilizzato: "~SL18"

Gruppo di Selezione su cui agisce la verifica: ~ACCIAIO

Resistenza materiali per instabilità delle membrature a SLU (con t spessore sezione)

ID Materiale	Nome materiale	fy (t<40mm) (N/mm²)	fy (t>40mm) (N/mm²)	γ _{M1}
n.28	S 235	235	215	1.05

Beam n.7 - Sezione "Pilastri HEB 240 [HEB 240]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Parametri per verifica di Stabilità:

Curva instabilità sbandamento piano 12: Sezione in acciaio Curva c

Curva instabilità sbandamento piano 13: Sezione in acciaio Curva b

Lunghezza di riferimento dell'asta LRif: 310 cm

Coefficiente per stabilità distorsionale (solo verifiche Steel World-EN15512) χ_{db}: 1

NOTA: nelle parti del testo dedicate all'indicazione della presenza o meno di ritegni per lo sbandamento, se un ritegno è stato individuato in modo automatico da CMP compare anche la scritta "(A)":

Descrizione	Piano 1-2	Piano 1-3	Svergolamento
Coefficienti di vincolo	1	1	1
Lunghezze effettive aste	310 cm	310 cm	310 cm
Lunghezze libere di inflessione	310 cm	310 cm	310 cm
Ritegno per lo sbandamento inizio Beam (nodo 9)	presente	presente	presente (A)
Ritegno per lo sbandamento fine Beam (nodo 10)	presente	presente	presente (A)

Snellezza sbandamento piano 12: 50.9557

Snellezza sbandamento piano 13: 30.0769

Ver	Dist (m)	N (kN)	M12 (kNm)	M13 (kNm)	CoeffN	CoeffNM12	CoeffNM13	Classe
Massimo CoeffNM12:								
19	1.55	-129.44	66.39	43.31	0.0666	0.3892	0.6171	1

Beam n.9 - Sezione "Pilastri HEB 240 [HEB 240]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Parametri per verifica di Stabilità:

Curva instabilità sbandamento piano 12: Sezione in acciaio Curva c

Curva instabilità sbandamento piano 13: Sezione in acciaio Curva b

Lunghezza di riferimento dell'asta LRif: 310 cm

Coefficiente per stabilità distorsionale (solo verifiche Steel World-EN15512) χ_{db} : 1

NOTA: nelle parti del testo dedicate all'indicazione della presenza o meno di ritegni per lo sbandamento, se un ritegno è stato individuato in modo automatico da CMP compare anche la scritta "(A)":

Descrizione	Piano 1-2	Piano 1-3	Svergolamento
Coefficienti di vincolo	1	1	1
Lunghezze effettive aste	310 cm	310 cm	310 cm
Lunghezze libere di inflessione	310 cm	310 cm	310 cm
Ritegno per lo sbandamento inizio Beam (nodo 11)	presente	presente	presente (A)
Ritegno per lo sbandamento fine Beam (nodo 12)	presente	presente	presente (A)

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Snellezza sbandamento piano 12: 50.9557

Snellezza sbandamento piano 13: 30.0769

Ver	Dist (m)	N (kN)	M12 (kNm)	M13 (kNm)	CoeffN	CoeffNM12	CoeffNM13	Classe
Massimo CoeffNM13:								
11	1.55	-68.72	-29.82	-102.06	0.0354	0.3889	0.6291	1

Beam n.10 - Sezione "Trave HEA 240 [HEA 240]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Parametri per verifica di Stabilità:

Curva instabilità sbandamento piano 12: Sezione in acciaio Curva c

Curva instabilità sbandamento piano 13: Sezione in acciaio Curva b

Lunghezza di riferimento dell'asta LRif: 410 cm

Coefficiente per stabilità distorsionale (solo verifiche Steel World-EN15512) χ_{db} : 1

NOTA: nelle parti del testo dedicate all'indicazione della presenza o meno di ritegni per lo sbandamento, se un ritegno è stato individuato in modo automatico da CMP compare anche la scritta "(A)":

Descrizione	Piano 1-2	Piano 1-3	Svergolamento
Coefficienti di vincolo	1	1	1
Lunghezze effettive aste	410 cm	410 cm	136.667 cm
Lunghezze libere di inflessione	410 cm	410 cm	136.667 cm
Ritegno per lo sbandamento inizio Beam (nodo 7)	presente	presente	presente (A)
Ritegno per lo sbandamento fine Beam (nodo 13)	assente	assente	presente (A)

Snellezza sbandamento piano 12: 68.2992

Snellezza sbandamento piano 13: 40.7897

Ver	Dist (m)	N (kN)	M12 (kNm)	M13 (kNm)	CoeffN	CoeffNM12	CoeffNM13	Classe
Massimo CoeffN:								
1	0.68	-0.00	0.00	46.10	0.0000	0.2628	0.2766	1

Beam n.14 - Sezione "Travetti HEA160 [HEA 160]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

**VALBONDIONE
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Parametri per verifica di Stabilità:

Curva instabilità sbandamento piano 12: Sezione in acciaio Curva c

Curva instabilità sbandamento piano 13: Sezione in acciaio Curva b

Lunghezza di riferimento dell'asta LRif: 500 cm

Coefficiente per stabilità distorsionale (solo verifiche Steel World-EN15512) χ_{db} : 1

NOTA: nelle parti del testo dedicate all'indicazione della presenza o meno di ritegni per lo sbandamento, se un ritegno è stato individuato in modo automatico da CMP compare anche la scritta "(A)":

Descrizione	Piano 1-2	Piano 1-3	Svergolamento
Coefficienti di vincolo	1	1	1
Lunghezze effettive aste	500 cm	500 cm	500 cm
Lunghezze libere di inflessione	500 cm	500 cm	500 cm
Ritegno per lo sbandamento inizio Beam (nodo 14)	presente	presente	presente (A)
Ritegno per lo sbandamento fine Beam (nodo 15)	presente	presente	presente (A)

Snellezza sbandamento piano 12: 125.482

Snellezza sbandamento piano 13: 76.1178

Ver	Dist (m)	N (kN)	M12 (kNm)	M13 (kNm)	CoeffN	CoeffNM12	CoeffNM13	Classe
Massimo CoeffN:								
1	2.50	-0.07	0.00	36.92	0.0002	0.7741	0.8149	1

Beam n.43 - Sezione "Pilastri HEB 240 [HEB 240]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Parametri per verifica di Stabilità:

Curva instabilità sbandamento piano 12: Sezione in acciaio Curva c

Curva instabilità sbandamento piano 13: Sezione in acciaio Curva b

Lunghezza di riferimento dell'asta LRif: 310 cm

Coefficiente per stabilità distorsionale (solo verifiche Steel World-EN15512) χ_{db} : 1

NOTA: nelle parti del testo dedicate all'indicazione della presenza o meno di ritegni per lo sbandamento, se un ritegno è stato individuato in modo automatico da CMP compare anche la scritta "(A)":

Descrizione	Piano 1-2	Piano 1-3	Svergolamento
Coefficienti di vincolo	1	1	1
Lunghezze effettive aste	310 cm	310 cm	310 cm

Lunghezze libere di inflessione	310 cm	310 cm	310 cm
Ritegno per lo sbandamento inizio Beam (nodo 33)	presente	presente	presente (A)
Ritegno per lo sbandamento fine Beam (nodo 34)	presente	presente	presente (A)

Snellezza sbandamento piano 12: 50.9557

Snellezza sbandamento piano 13: 30.0769

Ver	Dist (m)	N (kN)	M12 (kNm)	M13 (kNm)	CoeffN	CoeffNM12	CoeffNM13	Classe
Massimo CoeffN:								
1	1.55	-277.04	0.00	0.00	0.1426	0.1221	0.1426	1

Beam n.47 - Sezione "Trave HEA 240 [HEA 240]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Parametri per verifica di Stabilità:

Curva instabilità sbandamento piano 12: Sezione in acciaio Curva c

Curva instabilità sbandamento piano 13: Sezione in acciaio Curva b

Lunghezza di riferimento dell'asta LRif: 410 cm

Coefficiente per stabilità distorsionale (solo verifiche Steel World-EN15512) χ_{db} : 1

NOTA: nelle parti del testo dedicate all'indicazione della presenza o meno di ritegni per lo sbandamento, se un ritegno è stato individuato in modo automatico da CMP compare anche la scritta "(A)":

Descrizione	Piano 1-2	Piano 1-3	Svergolamento
Coefficienti di vincolo	1	1	1
Lunghezze effettive aste	410 cm	410 cm	136.667 cm
Lunghezze libere di inflessione	410 cm	410 cm	136.667 cm
Ritegno per lo sbandamento inizio Beam (nodo 34)	presente	presente	presente (A)
Ritegno per lo sbandamento fine Beam (nodo 38)	assente	assente	presente (A)

Snellezza sbandamento piano 12: 68.2992

Snellezza sbandamento piano 13: 40.7897

Ver	Dist (m)	N (kN)	M12 (kNm)	M13 (kNm)	CoeffN	CoeffNM12	CoeffNM13	Classe
Massimo CoeffNM13:								
18	0.68	0.00	-0.17	124.85	0.0000	0.7129	0.7512	1
Massimo CoeffNM12:								
18	0.68	0.00	-0.17	124.85	0.0000	0.7129	0.7512	1

**VALBONDIONE
TERRAZZA ESTERNA**

FASCICOLO DEI CALCOLI