

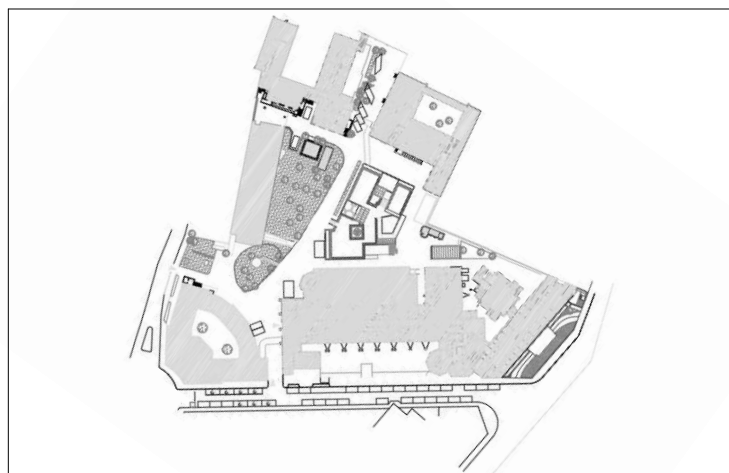


ADEGUAMENTO AI REQUISITI DI SICUREZZA ANTINCENDIO DELLA SEDE DI PIAZZA CARDINAL FERRARI



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PROGETTO ESECUTIVO

Relazione di calcolo Strutture in Elevazione

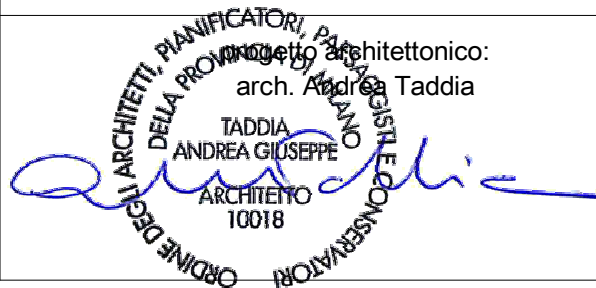
PROGETTO	FASE	EDIFICIO/AREA	CATEGORIA	SOTTOCATEGORIA	BLOCCO	PIANO	AMBITO	TIPOLOGIA	PROGRESSIVO	REVISIONE
2020605	PES	E01	STR	-	-	PNN	PR	RR	20003	01
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RELAZIONE DI CALCOLO DELLE STRUTTURE IN ELEVAZIONE OSPEDALE GAETANO PINI CTO

Premessa

Il presente documento costituisce la Relazione di calcolo delle opere strutturali in elevazione intese come interventi locali e puntuali con modeste travature metalliche atte a rinforzare i solai dei cavedi scale laddove si opereranno nuove forometrie, nel Presidio Ospedaliero “Gaetano Pini” a Milano.

Si rammenta che sono state condotte tre analisi numeriche tridimensionali delle nuove strutture, per tanti sono i casi al 7° e uguali all’8° piano, ancorate per come possibile alle strutture esistenti, simulate in parte per considerare i mutui effetti deformativi indotti sulle nuove travature in seguito all’abbassamento delle strutture esistenti.

Ai fini sismici è stata scelta una analisi di tipo NON DISSIPATIVO, malgrado le carpenterie siano in quota oltre 20 m dal piano campagna, lo spettro elastico sismico considera una categoria di sottosuolo C, topografia T1, classe d’uso IV e coeff. d’uso 2.

Si precisa che tutte le carpenterie metalliche saranno protette con vernice intumescente atta a garantire il requisito R60, pertanto non saranno oggetto di combinazione di carico con il fuoco.

Normative di riferimento

Nel seguito si adotta come riferimento quanto disposto dalle seguenti normative nazionali:

[1] NTC2018 - Norme tecniche per le costruzioni - D.M. 17 Gennaio 2018.

[2] Eurocodice 2: Progettazione delle strutture in calcestruzzo

[3] Eurocodice 3: Progettazione delle strutture in acciaio – Annex B

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Sintetica descrizione dell’intervento

Le strutture in esame sono prevalentemente costituite da porzioni di profilati metallici nuovi di tipo HEA 140 e HEA 240, ancorate alle presunte travature esistenti presumibilmente IPE 300 e HEA 240.

Nello specifico trattasi di cosiddetti “bilancini” atti a creare maggiormente appoggio alle solette in lamiera grecata e getto collaborante esistenti che devono essere forate per consentire i passaggi impiantistici.

Si precisa che sono state modellate solo le travature direttamente connesse ai bilancini in quanto le restanti strutture risultano influenti per le verifiche, nel caso in esame.

Per la zona filtro 1-2 è stato assunto un bilancino costituito da travi HEA 140 connesse alla trave di spina centrale e al muro in c.a., idem per la zona filtro 3-4 è stato progettato un bilancino con travi HEA 140 connesse alle due spine esistenti HEA 240, per la zona 12-13 è stata prevista una trave HEA 240 presumibilmente connessa alle strutture in c.a. esistenti di cui occorre assicurarsi in fase costruttiva. Gli acciai impiegati sono S275.

Si rammenta che non essendo stato possibile effettuare il rilievo in loco, per emergenza sanitaria ai sensi del DPCM 8 marzo 2020 e s.m.i., si rimanda alla DL le relative misure e lunghezze insieme con la relativa modifica degli ancoraggi alle strutture esistenti qualora ritenuti più idonei.

Software di calcolo

I risultati numerici sono ottenuti mediante l'ausilio del codice ad elementi finiti PROSAP RY2018 (b) vers. 18.1.4 lic. Num. dsi5427.

Informazioni sul codice di calcolo	
Titolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2018-07-183)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara
Codice Licenza:	Licenza dsi5427

Tipo di analisi

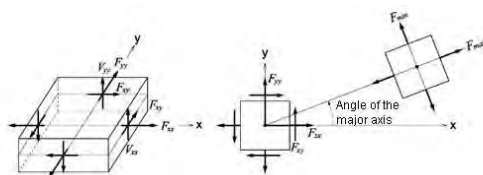
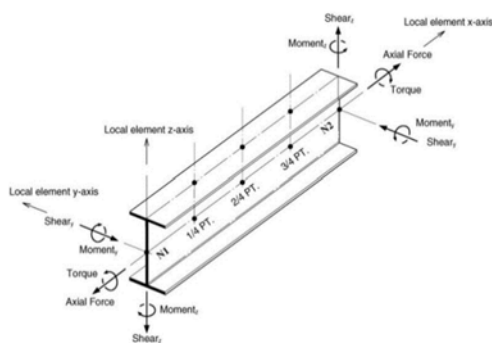
L'analisi strutturale condotta attraverso l'utilizzo del software di calcolo è di tipo statica gravitazionale e dinamica modale.

La verifica della sicurezza degli elementi strutturali avviene con i metodi della scienza delle costruzioni. L'analisi strutturale è condotta con il metodo degli spostamenti per la valutazione dello stato tensodeformativo indotto da carichi statici. L'analisi strutturale viene effettuata con il metodo degli elementi finiti. Il metodo sopraindicato si basa sulla schematizzazione della struttura in elementi connessi solo in corrispondenza di un numero prefissato di punti denominati nodi. I nodi sono definiti dalle tre coordinate cartesiane in un sistema di riferimento globale. Le incognite del problema (nell'ambito del metodo degli spostamenti) sono le componenti di spostamento dei nodi riferite al sistema di riferimento globale (traslazioni secondo X, Y, Z, rotazioni attorno X, Y, Z). La soluzione del problema si ottiene con un sistema di equazioni algebriche lineari i cui termini noti sono costituiti dai carichi agenti sulla struttura opportunamente concentrati ai nodi:

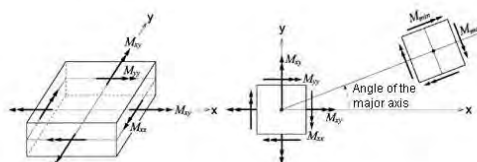
$K * u = F$ dove K = matrice di rigidezza

u = vettore spostamenti nodali

F = vettore forze nodali



(a) Forces per unit length due to in-plane actions at the output locations



(b) Moments per unit length due to out-of-plane bending actions at the output locations

Convenzione segni per frame e shell

Dagli spostamenti ottenuti con la risoluzione del sistema vengono quindi dedotte le sollecitazioni e/o le tensioni di ogni elemento, riferite generalmente ad una terna locale all'elemento stesso.

Il sistema di riferimento utilizzato è costituito da una terna cartesiana destrorsa XYZ. Si assume l'asse Z verticale ed orientato verso l'alto.

Gli elementi utilizzati per la modellazione dello schema statico della struttura sono i seguenti:

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Elemento tipo TRUSS	(biella-D2)
Elemento tipo BEAM	(trave-D2)
Elemento tipo MEMBRANE	(membrana-D3)
Elemento tipo PLATE	(piastra-guscio-D3)
Elemento tipo BOUNDARY	(molla)
Elemento tipo STIFFNESS	(matrice di rigidità)
Elemento tipo BRICK	(elemento solido)
Elemento tipo SOLAIO	(macro elemento composto da più membrane)

Modelli di calcolo

Sono stati eseguiti due modelli di calcolo, uno che considera le sole azioni statiche e uno che considera le sole azioni sismiche. Per le verifiche sono state assunte le condizioni peggiorative tra i due.

Informazioni sul codice di calcolo	
Titolo:	PRO_SAP PROfessional Structural Analysis Program
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara

Un attento esame preliminare della documentazione a corredo del software **ha consentito di valutarne l'affidabilità e soprattutto l'idoneità al caso specifico**. La documentazione, fornita dal produttore e distributore del software, contiene una esauriente descrizione delle basi teoriche e degli algoritmi impiegati, l'individuazione dei campi d'impiego, nonché casi prova interamente risolti e commentati, corredati dei file di input necessari a riprodurre l'elaborazione:

Affidabilità dei codici utilizzati
2S.I. ha verificato l'affidabilità e la robustezza del codice di calcolo attraverso un numero significativo di casi prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche.
E' possibile reperire la documentazione contenente alcuni dei più significativi casi trattati al seguente link: http://www.2si.it/Software/Affidabilità.htm

Descrizione generale dell'opera	
Fabbricato ad uso	
Ubicazione	Comune di Milano (Regione LOMBARDIA)
	Località MILANO (MI)
	Longitudine 9.190, Latitudine 45.464
Numero di piani	Fuori terra 2
	Interrati 0
Numero vani scale	3x2
Numero vani ascensore	3x2

Parametri della struttura			
Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]
IV	100.0	2.0	200.0

Fattore di struttura/comportamento
Q=1 STRUTTURA NON DISSIPATIVA

Tipo di analisi strutturale	
Carichi verticali	SI
Statica non lineare	NO
Sismica statica lineare	NO
Sismica dinamica lineare	SI
Sismica statica non lineare (prop. masse)	NO
Sismica statica non lineare (prop. modo)	NO
Sismica statica non lineare (triangolare)	NO
Non linearità geometriche (fattore P delta)	NO

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Modellazione delle azioni

Si veda il capitolo **“Schematizzazione dei casi di carico”** per le informazioni necessarie alla comprensione ed alla ricostruzione delle azioni applicate al modello numerico, coerentemente con quanto indicato nella parte **“2.6. Azioni di progetto sulla costruzione”**.

Combinazioni e/o percorsi di carico

Si veda il capitolo **“Definizione delle combinazioni”** in cui sono indicate le combinazioni di carico adottate e, nel caso di calcoli non lineari, i percorsi di carico seguiti.

Combinazioni dei casi di carico	
APPROCCIO PROGETTUALE	Approccio 2
Tensioni ammissibili	NO

SLU	SI
SLV (SLU con sisma)	SI
SLC	NO
SLD	SI
SLO	NO
SLU GEO A2 (per approccio 1)	NO
SLU EQU	NO
Combinazione caratteristica (rara)	NO
Combinazione frequente	NO
Combinazione quasi permanente (SLE)	NO
SLA (accidentale quale incendio)	NO



Vertici della maglia elementare

Id nodo	Longitudine	Latitudine	Distanza [km]
12260	9.146	45.457	3.507
12261	9.217	45.459	2.171
12039	9.214	45.509	5.325
12038	9.143	45.507	6.004

Coordinate geografiche

Località:

Longitudine: Latitudine:

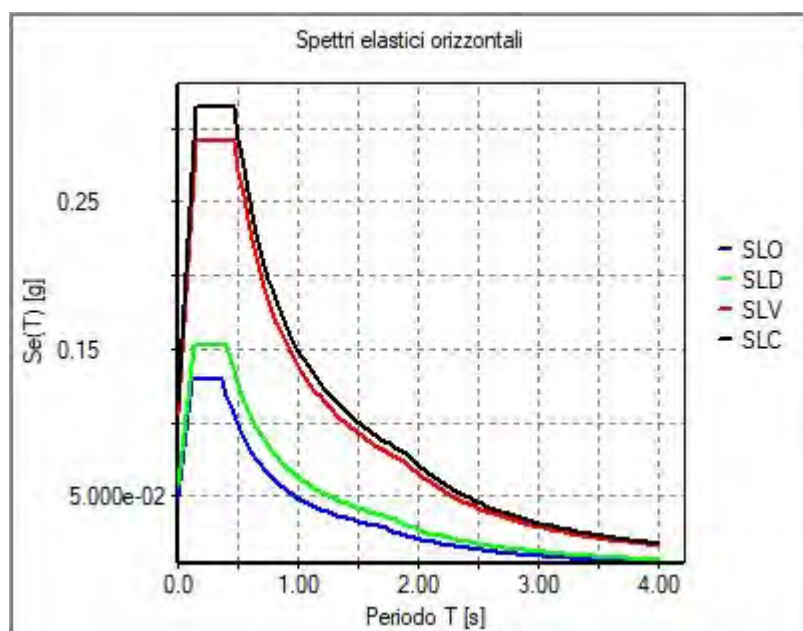
Parametri per le forme spettrali

	Pver	Tr	ag [g]	Fo	T*c
SLO	81	120	0.033	2.590	0.220
SLD	63	201	0.039	2.630	0.250
SLV	10	1898	0.071	2.750	0.310
SLC	5	2475	0.075	2.780	0.310

Periodo di riferimento per l'azione sismica

Vita Vn [anni]	Coefficiente uso Cu	Periodo Vr [anni]	Livello di sicurezza per esistenti %
100	2	200	100

01_INT_PERICOLOSITA



01_INT_SPETTRI_ELASTICI_O

CARATTERISTICHE MATERIALI UTILIZZATI

Nel dimensionare le strutture relative ai diversi manufatti in esame si sono utilizzati i seguenti materiali, le cui caratteristiche di resistenza vengono stabilite in base alla normativa basata sul metodo semi probabilistico agli stati limite:

Acciaio tipo S275 , protezione e zincatura a caldo.

- Tensione caratteristica di rottura $f_{tk} \geq 430$ MPa
per spessori fino a 40mm
- Tensione caratteristica di snervamento $f_{yk} \geq 275$ MPa
per spessori fino a 40mm
- Modulo elastico $E = 200000$ Mpa

Bulloni

Si considerano bulloni ad alta resistenza con viti di classe 8.8, in conformità alle norme UNI EN 14399 -1 per collegamenti precaricati e UNI EN 15048-1 per collegamenti non precaricati.

La norma EN 15048- 1 ammette la composizione dell'assieme di assemblaggio utilizzando componenti provenienti da bulloneria standard ISO, come ad esempio ISO 4014 (viti a filetto parziale) , oppure ISO 4017 (viti a tutto filetto), combinata con ISO 4032 (dadi) e, se richiesto dal progettista, anche con ISO 7091 (rondelle).

Un particolare riferimento si farà alle norme EN ISO 898 e alla norma UNI 1090

I bulloni avranno le seguenti caratteristiche meccaniche:

- Tensione caratteristica di rottura $f_{tb} = 800 \text{ MPa}$
- Tensione caratteristica di snervamento $f_{yb} \geq 640 \text{ MPa}$

Saldature

Le saldature sono eseguite a completo ripristino della sezione secondo le prescrizioni delle UNI EN ISO 898 e alla norma UNI 1090.

Procedimenti operativi ai sensi delle Uni 1090

La classe di esecuzione richiesta per le strutture in carpenteria metallica è la EXC2.

Classi di esecuzione delle strutture

Danno		CC1		CC2		CC3	
Esecuzione		SC1	SC2	SC1	SC2	SC1	SC2
Costruzione	PC1	EXC1	EXC2	EXC2	EXC3	EXC3	EXC3
	PC2	EXC2	EXC2	EXC2	EXC3	EXC3	EXC4

Rischi connessi all'esercizio della struttura

Categoria		Criterio
SC1	-	Strutture e componenti progettati solo per azioni quasi statiche
	-	Strutture e componenti con sistemi di giunzione progettati per azioni sismiche in aree con bassa attività sismica
	-	Strutture e componenti progettati per sollecitazioni a fatica
SC2	-	Strutture e componenti progettati per sollecitazioni a fatica secondo EN 1993 (es. ponti)
	-	Strutture e componenti con sistemi di giunzione progettati per azioni sismiche in aree con media ed alta attività sismica

<i>Rischi connessi alla costruzione della struttura</i>	
Categoria	Criterio
PC1	<ul style="list-style-type: none"> - Componenti senza saldature fabbricati con acciaio di qualsiasi grado - Componenti con saldature fabbricati con acciaio inferiore al grado S355
PC2	<ul style="list-style-type: none"> - Componenti con saldature fabbricati con acciaio di grado S355 e superiore - Componenti fondamentali per l'integrità strutturale assemblati in cantiere mediante saldatura - Componenti ottenuti a caldo e sottoposti a trattamenti termici - Componenti reticolari a sezione cava circolare

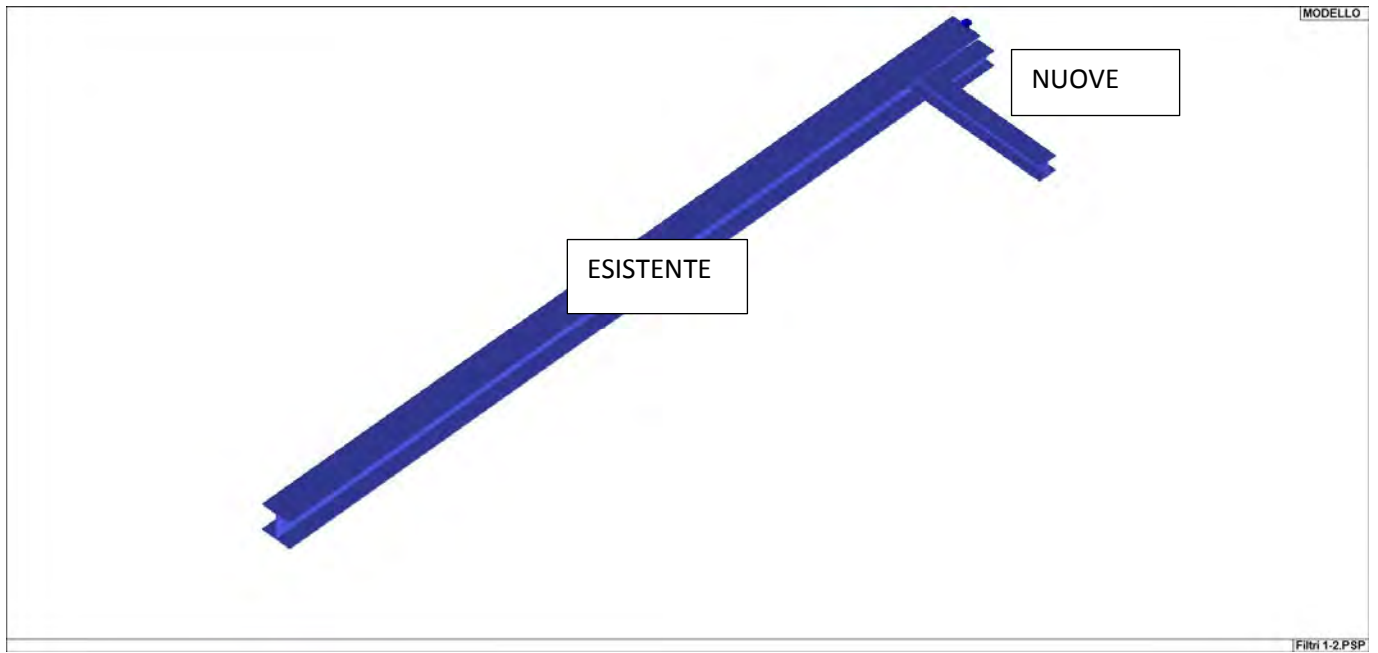
Analisi dei carichi (comune ai tre casi)

Come di seguito esplicitato i carichi e i sovraccarichi applicati al suddetto modello derivano sia dalle strutture proprie della platea e dei sottofondi ad essa applicati, e dai carichi e sovraccarichi delle vasche ad essa appoggiate. Tali valori normalizzati a mq sono stati desunti dalle schede tecniche del fornitore delle vasche.

Tali carichi e sovraccarichi sono stati implementati seguendo le combinazioni di carico statiche e sismiche previste dalle NTC 2018 e sono stati applicati al modello agli elementi finiti della fondazione, sottoforma di massime reazioni a terra, applicate ai nodi dei setti murari in c.a. e alle travi atte ad accogliere la struttura in legno di tipo platform frame che si sviluppa in elevato.

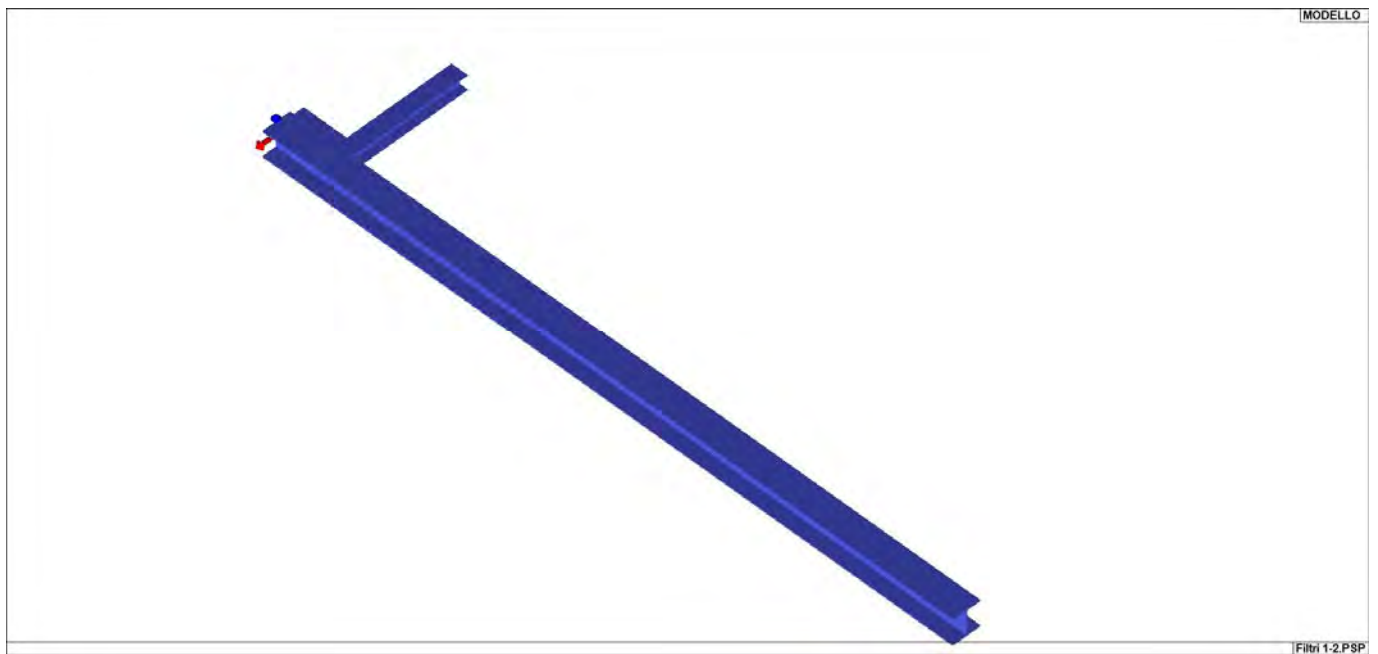
	Tipo	pressione	
		kN/ m2	
1-5	PNS SOTTOFONDO+PAV (10 cm) -P3:p=-2.400e-02 (supposto)	-2.40	11
2-4	DEAD SOLAIO LAMIERA GRECATA (supposto)	-2.40	—
3-6	ACC FOLLA-P3:p= 4.000e-02	-4.00	

STRUTTURE ZONA FILTRO 1-2 (piano 7° e 8°)



01_INT_VISTA_SOLIDA_003

12



01_INT_VISTA_SOLIDA_004

SCHEMATIZZAZIONE DEI CASI DI CARICO STATICI E SISMICI

LEGENDA TABELLA CASI DI CARICO

Il programma consente l'applicazione di diverse tipologie di casi di carico.

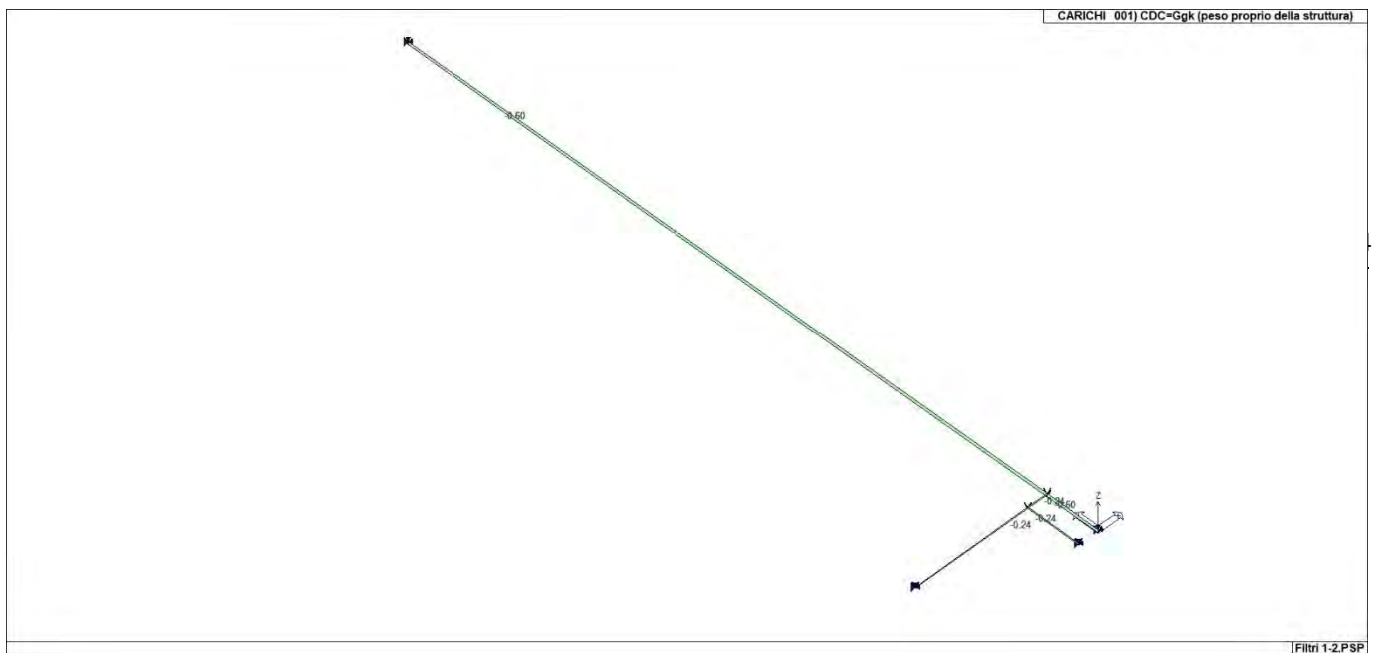
Sono previsti i seguenti 11 tipi di casi di carico:

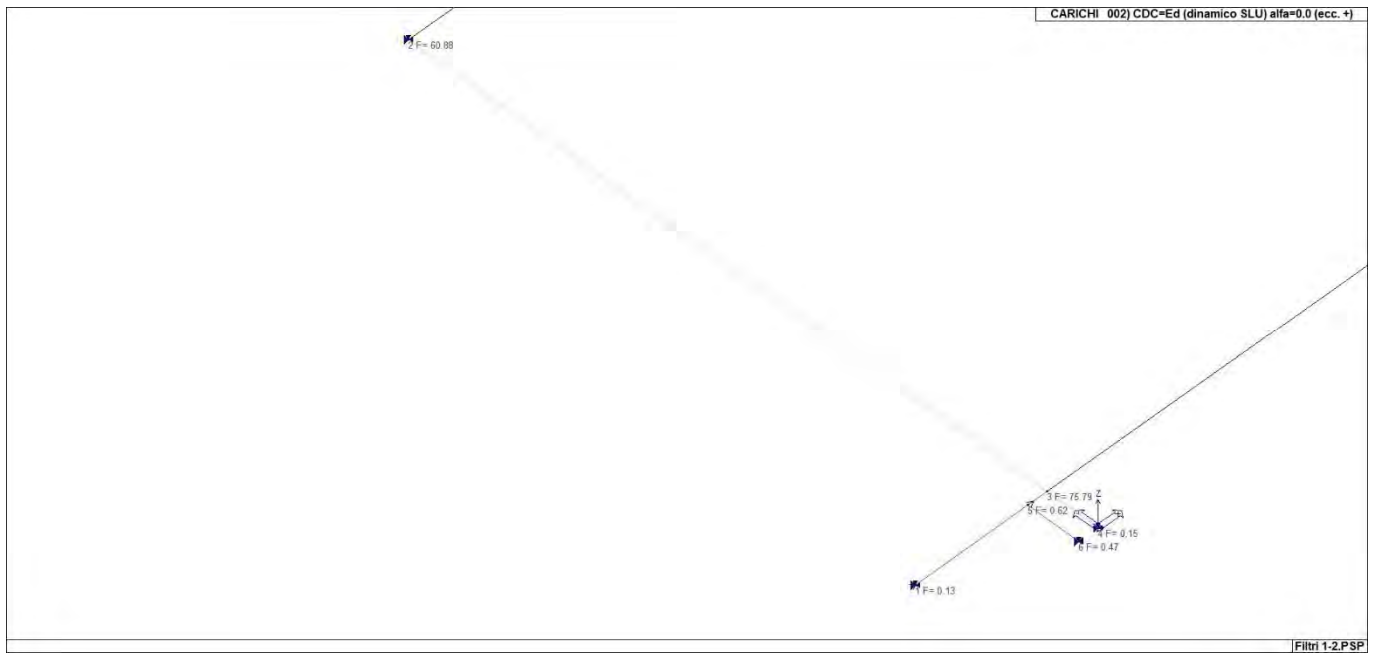
	Sigla	Tipo	Descrizione
1	Ggk	A	caso di carico comprensivo del peso proprio struttura
2	Gk	NA	caso di carico con azioni permanenti
3	Qk	NA	caso di carico con azioni variabili
4	Gsk	A	caso di carico comprensivo dei carichi permanenti sui solai e sulle coperture
5	Qsk	A	caso di carico comprensivo dei carichi variabili sui solai
6	Qnk	A	caso di carico comprensivo dei carichi di neve sulle coperture
7	Qtk	SA	caso di carico comprensivo di una variazione termica agente sulla struttura
8	Qvk	NA	caso di carico comprensivo di azioni da vento sulla struttura
9	Esk	SA	caso di carico sismico con analisi statica equivalente
10	Edk	SA	caso di carico sismico con analisi dinamica
11	Etk	NA	caso di carico comprensivo di azioni derivanti dall' incremento di spinta delle terre in condizione sismica
12	Pk	NA	caso di carico comprensivo di azioni derivanti da coazioni, cedimenti e precompressioni

Tipo carico distribuito globale su trave

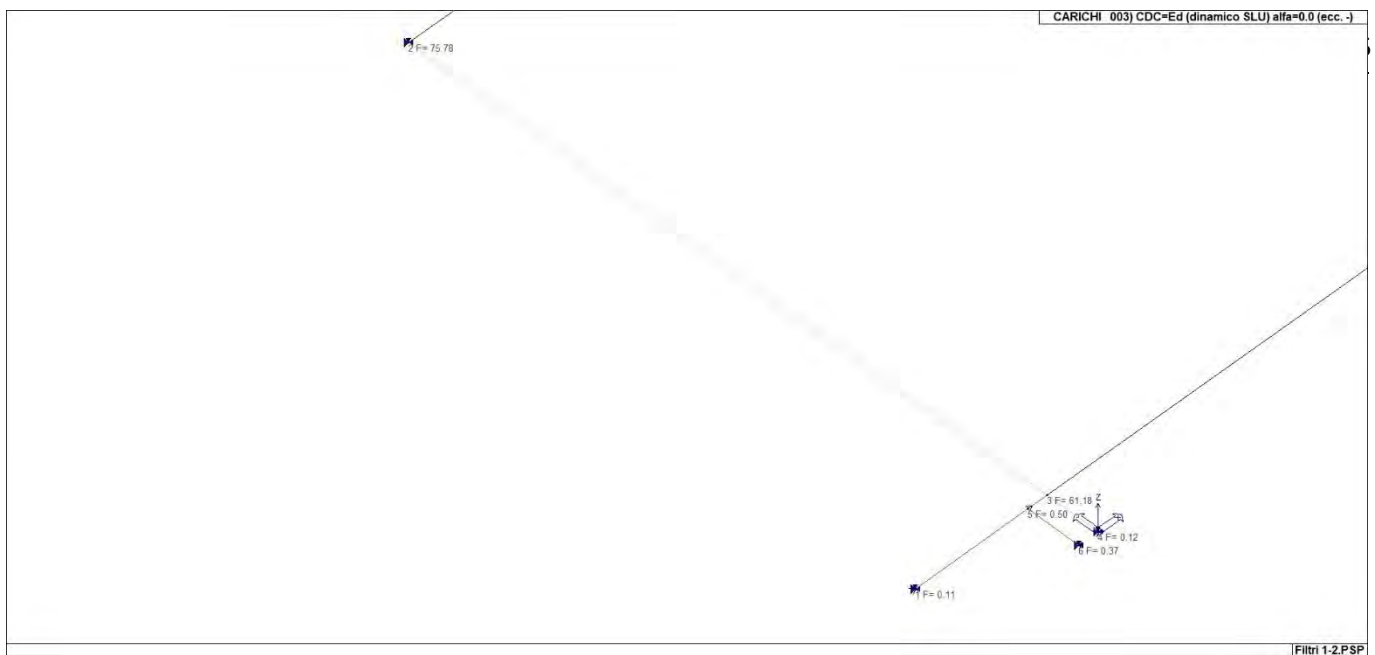
Id	Tipo	Pos.	fx	fy	fz	mx	my	mz
		m	kN/ m	kN/ m	kN/ m	kN	kN	kN
1	DG:Fzi=-7.20 Fzf=-7.20	0.0	0.0	0.0	-7.20	0.0	0.0	0.0
		0.0	0.0	0.0	-7.20	0.0	0.0	0.0
2	DG:Fzi=-7.20 Fzf=-7.20	0.0	0.0	0.0	-7.20	0.0	0.0	0.0
		0.0	0.0	0.0	-7.20	0.0	0.0	0.0
3	DG:Fzi=-12.00 Fzf=-12.00	0.0	0.0	0.0	-12.00	0.0	0.0	0.0
		0.0	0.0	0.0	-12.00	0.0	0.0	0.0
4	dead solaio su mensola-DG:Fzi=-0.50 Fzf=-0.50	0.0	0.0	0.0	-0.50	0.0	0.0	0.0
		0.0	0.0	0.0	-0.50	0.0	0.0	0.0
5	pns solaio su mensola-DG:Fzi=-0.50 Fzf=-0.50	0.0	0.0	0.0	-0.50	0.0	0.0	0.0
		0.0	0.0	0.0	-0.50	0.0	0.0	0.0
6	acc solaio su mensola-DG:Fzi=-0.80 Fzf=-0.80	0.0	0.0	0.0	-0.80	0.0	0.0	0.0
		0.0	0.0	0.0	-0.80	0.0	0.0	0.0

CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 10 CDC=G1k (permanente generico) dead solaio
			partecipazione:0.80 per 11 CDC=Qk (variabile generico) acc solaio
			partecipazione:1.00 per 12 CDC=G1k (permanente generico) pns solaio
			partecipazione:1.00 per 13 CDC=G1k (permanente generico) dead solaio su mensola
			partecipazione:1.00 per 14 CDC=G1k (permanente generico) pns solaio su mensola
			partecipazione:0.80 per 15 CDC=Qk (variabile generico) acc solaio su mensola
3	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
4	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico

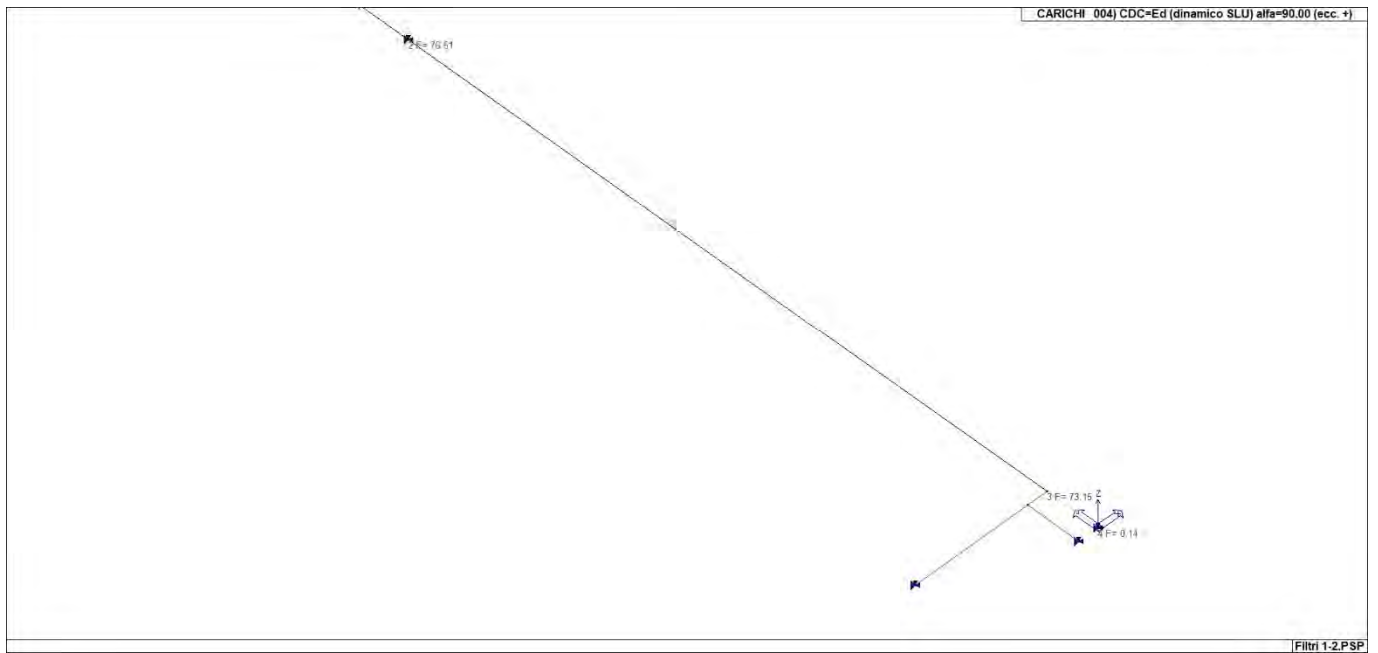




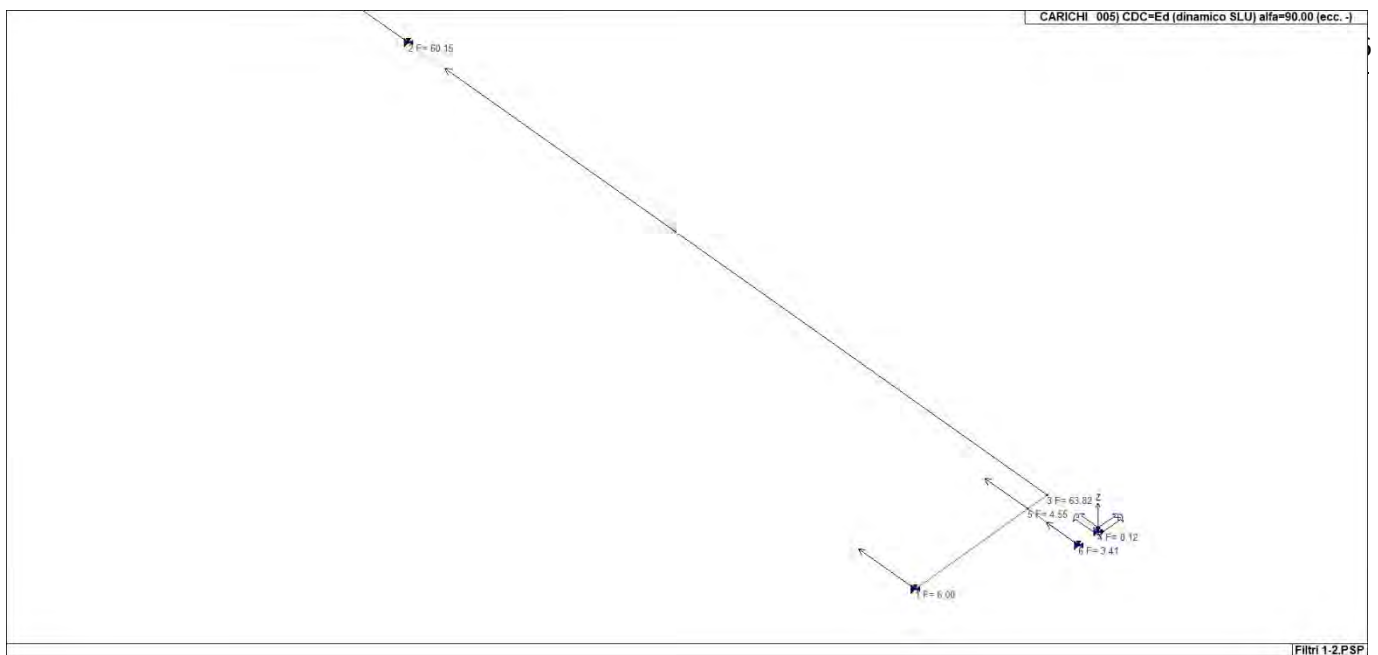
22_CDC_002_CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)



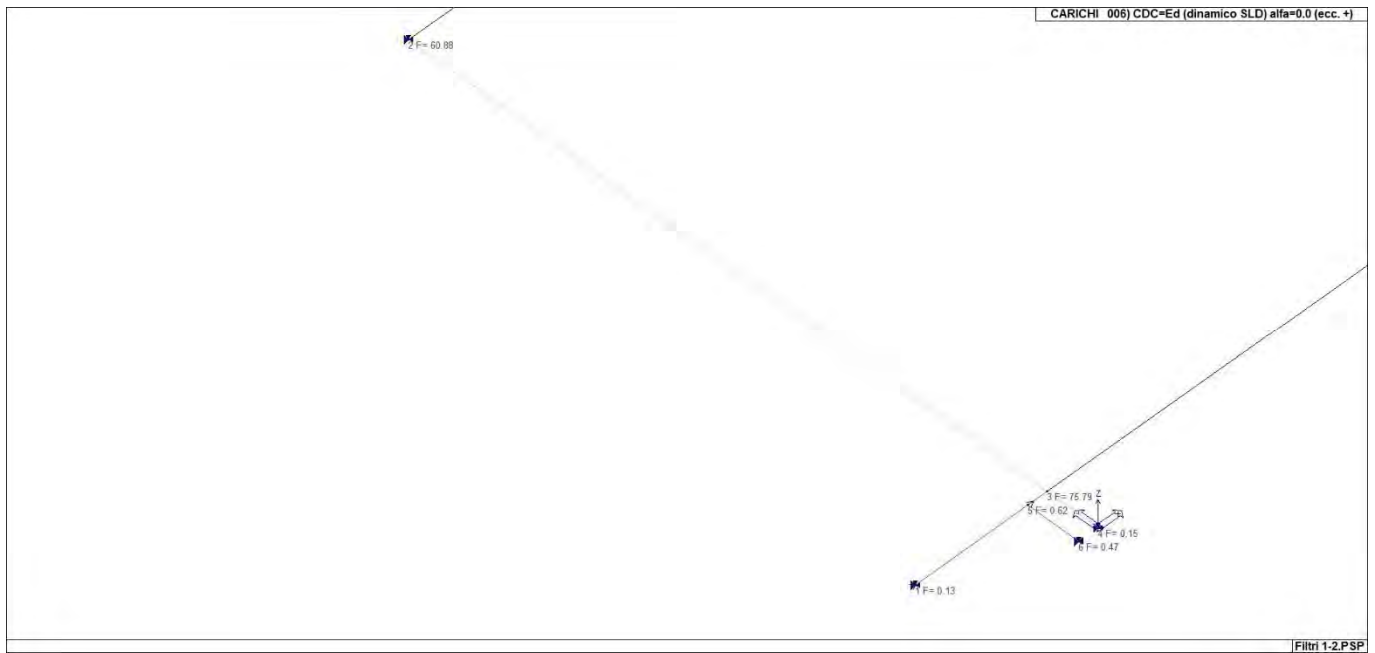
22_CDC_003_CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)



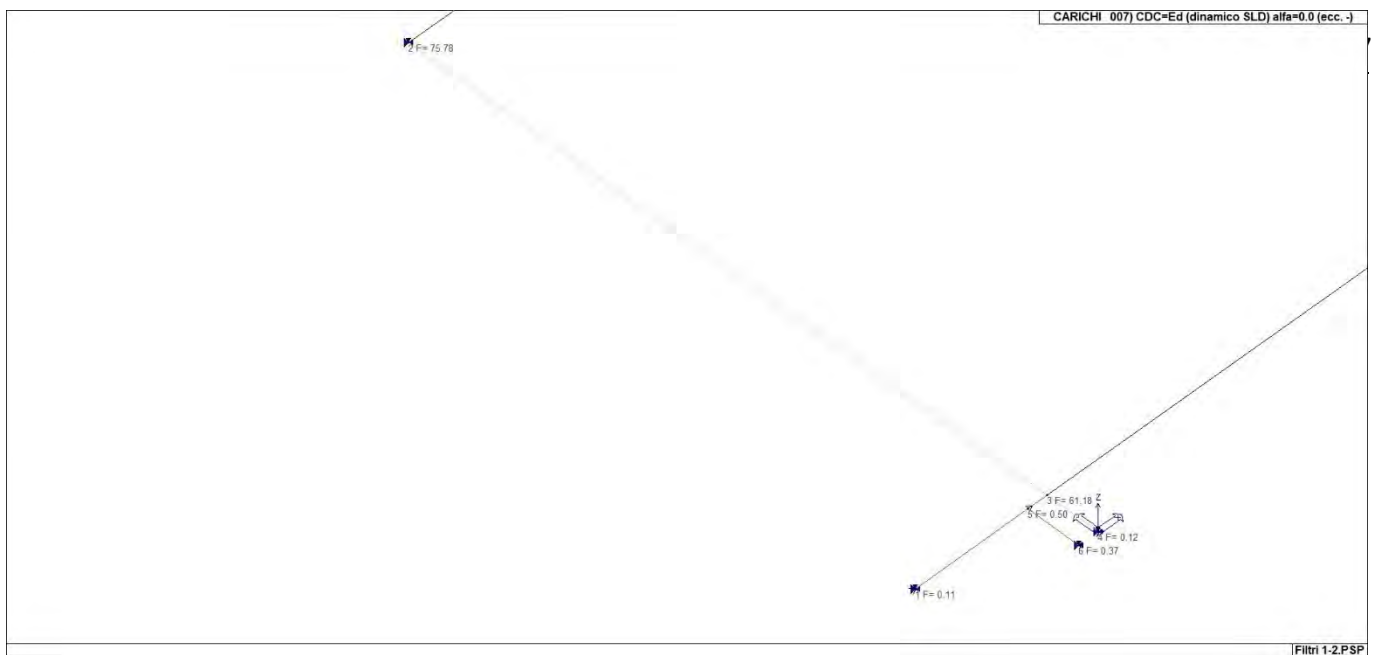
22_CDC_004_CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)



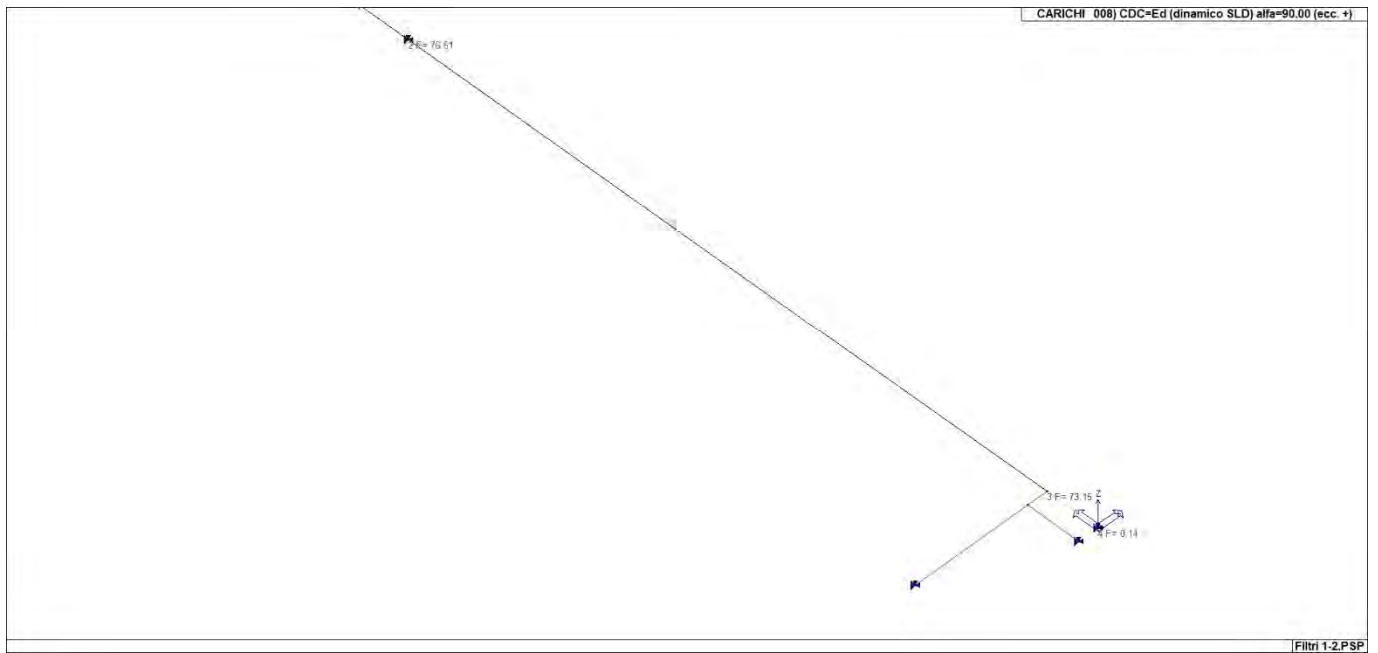
22_CDC_005_CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)



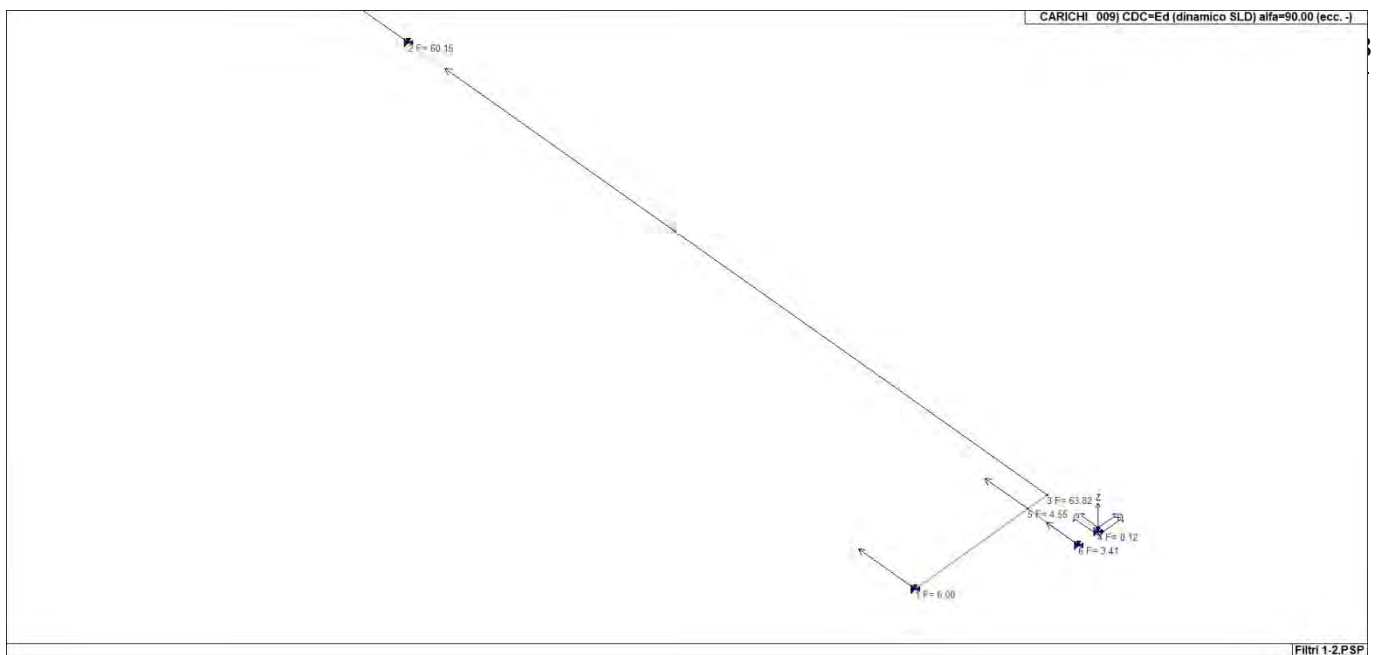
22_CDC_006_CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)



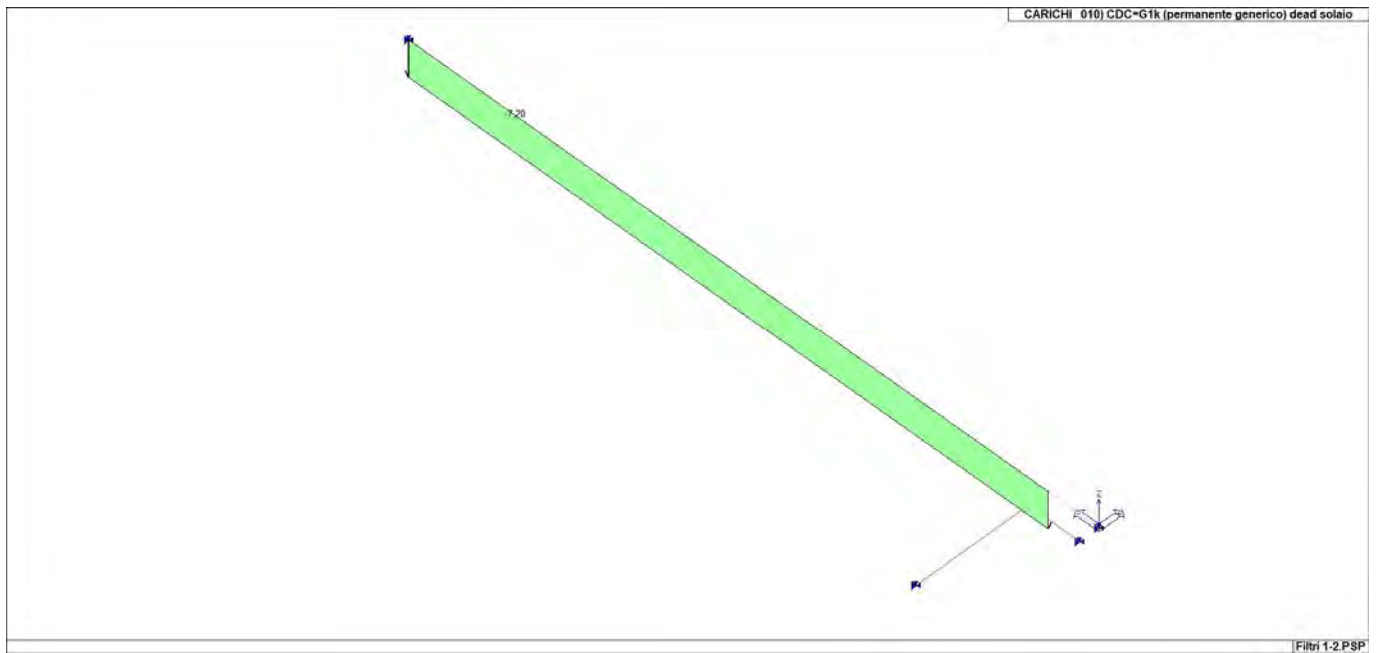
22_CDC_007_CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)



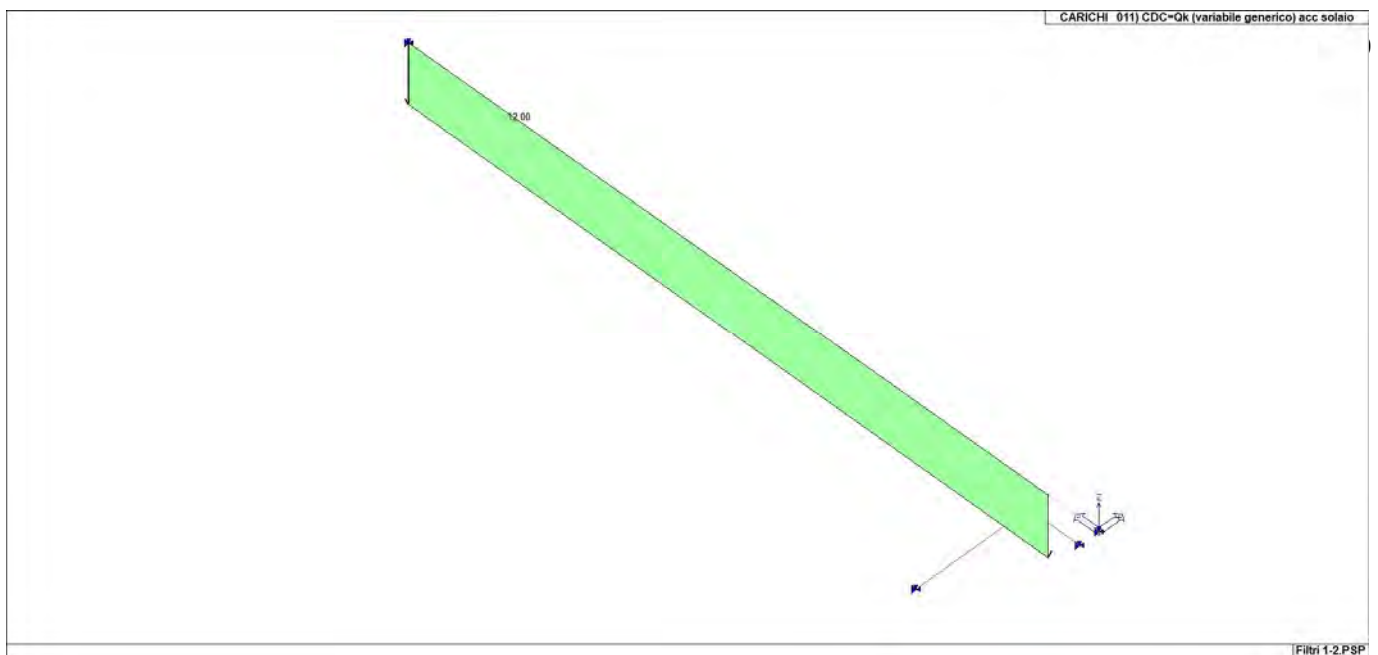
22_CDC_008_CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)



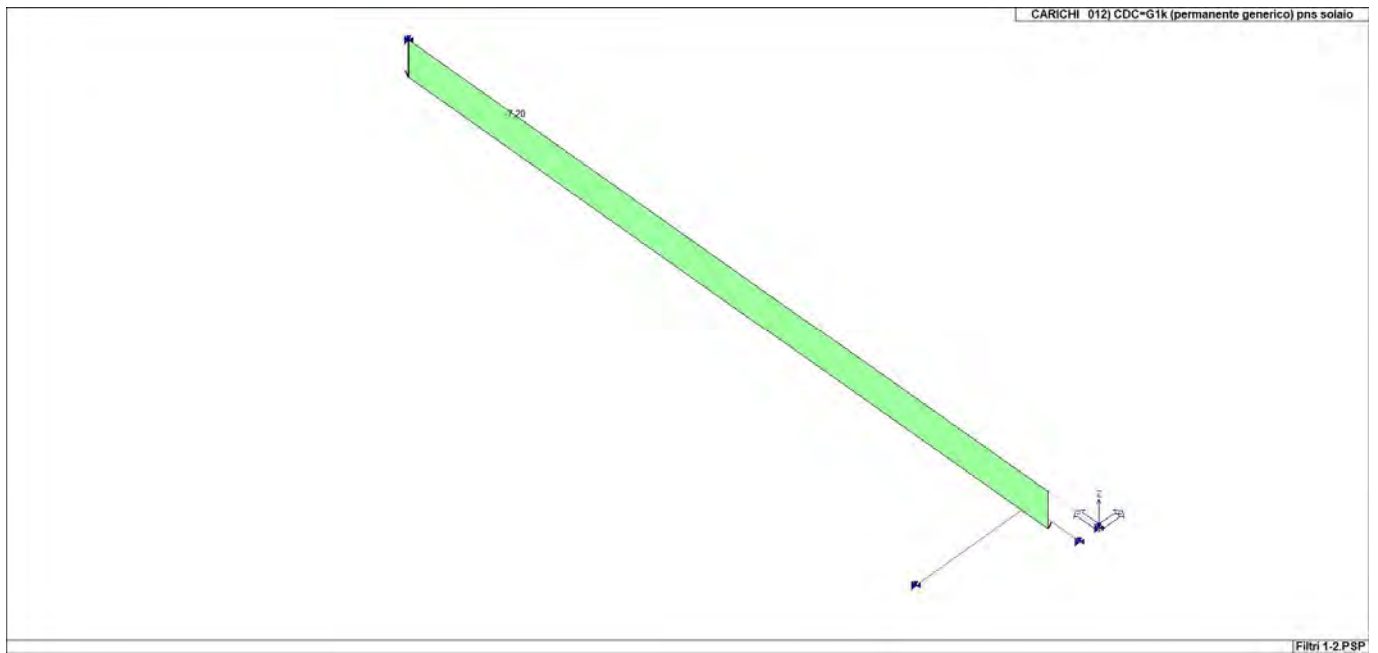
22_CDC_009_CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)



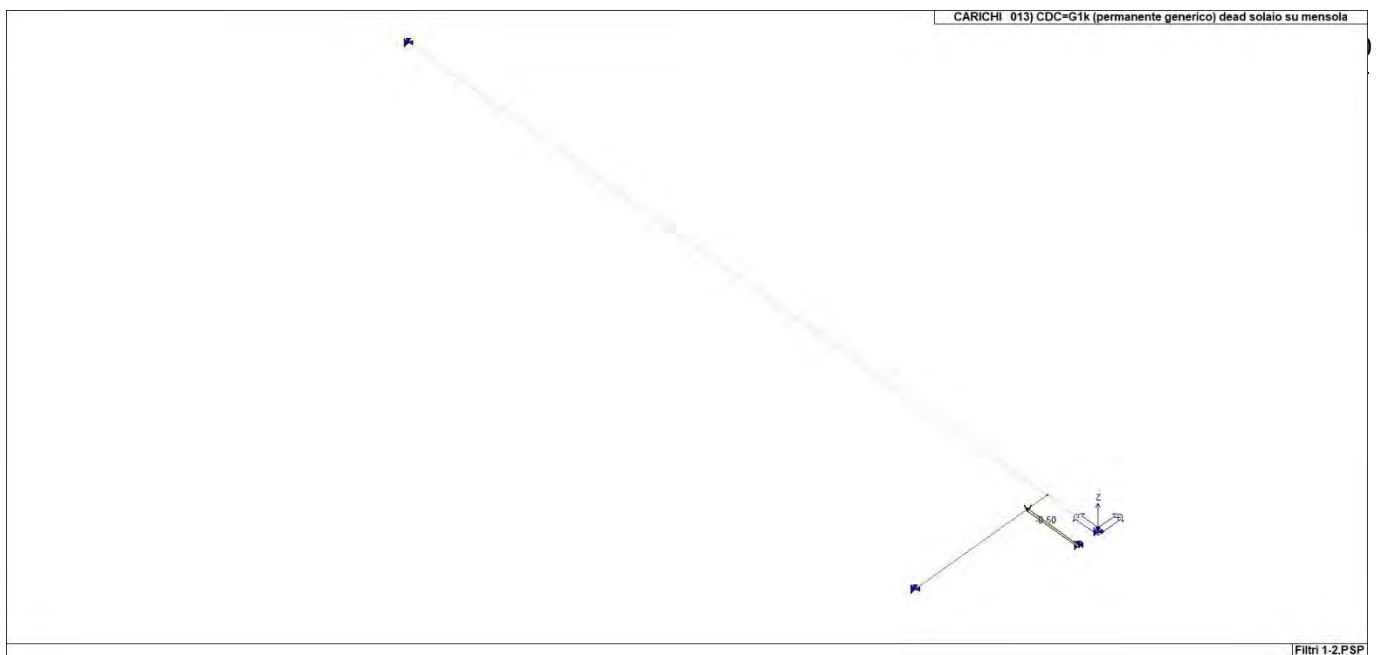
22_CDC_010_CDC=G1k (permanente generico) dead solaio



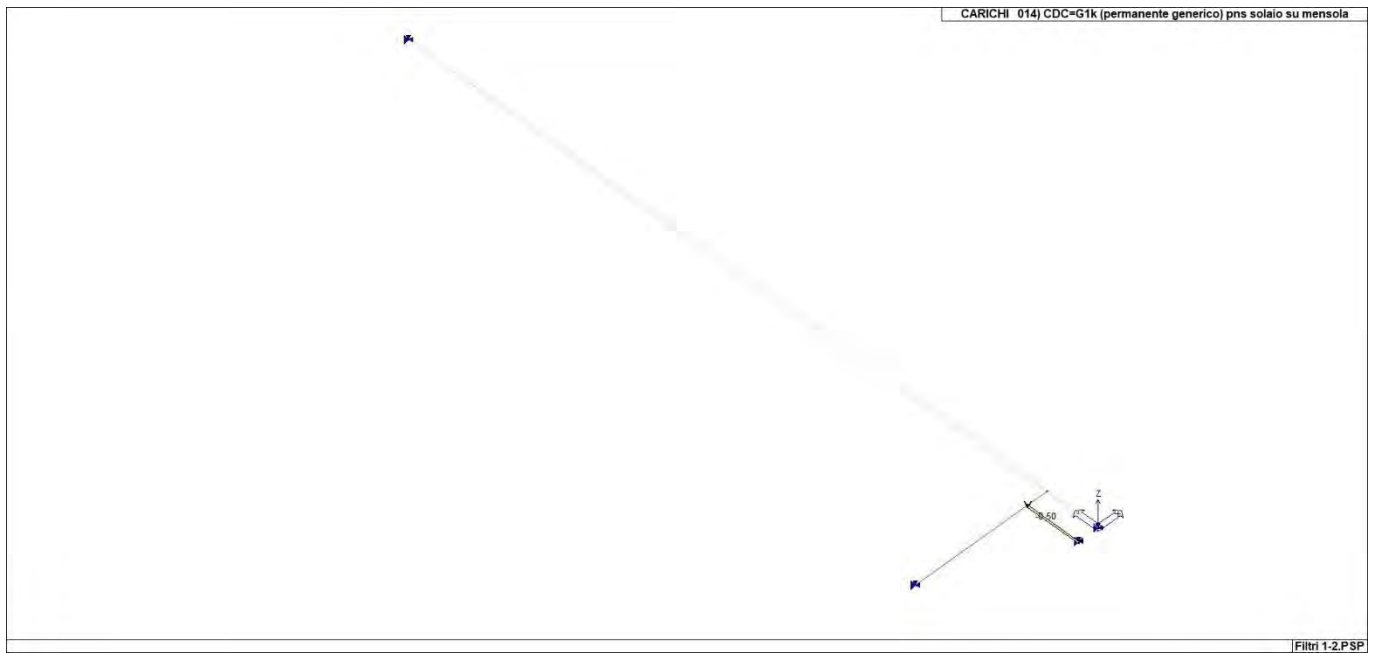
22_CDC_011_CDC=Qk (variabile generico) acc solaio



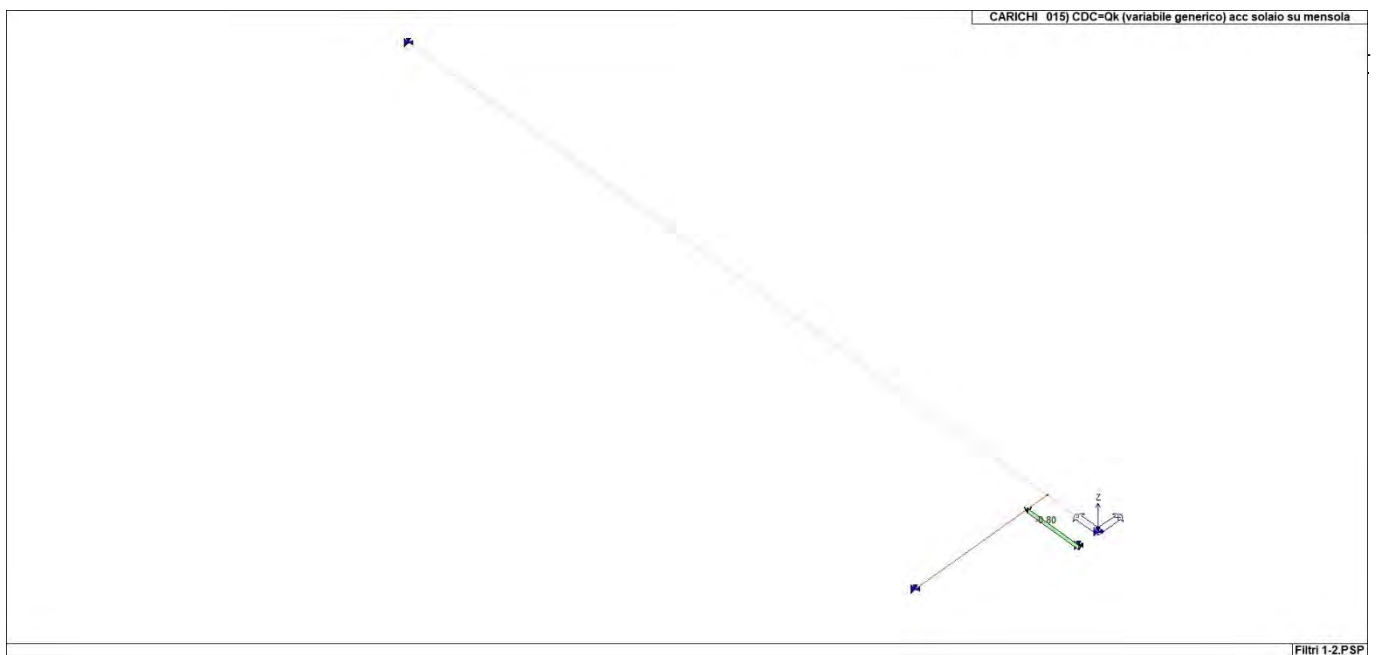
22_CDC_012_CDC=G1k (permanente generico) pns solaio



22_CDC_013_CDC=G1k (permanente generico) dead solaio su mensola



22_CDC_014_CDC=G1k (permanente generico) pns solaio su mensola



22_CDC_015_CDC=Qk (variabile generico) acc solaio su mensola

DEFINIZIONE DELLE COMBINAZIONI STATICHE GRAVITAZIONALI E SISMICHE

LEGENDA TABELLA COMBINAZIONI DI CARICO

Il programma combina i diversi tipi di casi di carico (CDC) secondo le regole previste dalla normativa vigente. Le combinazioni previste sono destinate al controllo di sicurezza della struttura ed alla verifica degli spostamenti e delle sollecitazioni.

La prima tabella delle combinazioni riportata di seguito comprende le seguenti informazioni: Numero, Tipo, Sigla identificativa. Una seconda tabella riporta il peso nella combinazione assunto per ogni caso di carico.

Ai fini delle verifiche degli stati limite si definiscono le seguenti combinazioni delle azioni:

Combinazione fondamentale SLU

$$\gamma G_1 \cdot G_1 + \gamma G_2 \cdot G_2 + \gamma P \cdot P + \gamma Q_1 \cdot Q_{k1} + \gamma Q_2 \cdot \psi_{02} \cdot Q_{k2} + \gamma Q_3 \cdot \psi_{03} \cdot Q_{k3} + \dots$$

Combinazione caratteristica (rara) SLE

$$G_1 + G_2 + P + Q_{k1} + \psi_{02} \cdot Q_{k2} + \psi_{03} \cdot Q_{k3} + \dots$$

Combinazione frequente SLE

$$G_1 + G_2 + P + \psi_{11} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \dots$$

Combinazione quasi permanente SLE

$$G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \dots$$

Combinazione sismica, impiegata per gli stati limite ultimi e di esercizio connessi all'azione sismica E

$$E + G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \dots$$

Combinazione eccezionale, impiegata per gli stati limite connessi alle azioni eccezionali

$$G_1 + G_2 + A_d + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \dots$$

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Dove:

NTC 2018 Tabella 2.5.I

Destinazione d'uso/azione	ψ_0	ψ_1	ψ_2
Categoria A residenziali	0,70	0,50	0,30
Categoria B uffici	0,70	0,50	0,30
Categoria C ambienti suscettibili di affollamento	0,70	0,70	0,60
Categoria D ambienti ad uso commerciale	0,70	0,70	0,60
Categoria E biblioteche, archivi, magazzini,...	1,00	0,90	0,80
Categoria F Rimesse e parcheggi (autoveicoli ≤ 30 kN)	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli > 30 kN)	0,70	0,50	0,30
Categoria H Coperture	0,00	0,00	0,00
Vento	0,60	0,20	0,00
Neve a quota ≤ 1000 m	0,50	0,20	0,00
Neve a quota > 1000 m	0,70	0,50	0,20
Variazioni Termiche	0,60	0,50	0,00

Nelle verifiche possono essere adottati in alternativa due diversi approcci progettuali:

- per l'approccio 1 si considerano due diverse combinazioni di gruppi di coefficienti di sicurezza parziali per le azioni, per i materiali e per la resistenza globale (combinazione 1 con coefficienti A1 e combinazione 2 con coefficienti A2),
- per l'approccio 2 si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A1).

NTC 2018 Tabella 2.6.I

		Coefficiente γ_f	EQU	A1	A2
Carichi permanenti	Favorevoli	γ_{G1}	0,9	1,0	1,0
	Sfavorevoli		1,1	1,3	1,0
Carichi permanenti non strutturali (Non compiutamente definiti)	Favorevoli	γ_{G2}	0,8	0,8	0,8
	Sfavorevoli		1,5	1,5	1,3
Carichi variabili	Favorevoli	γ_{Qi}	0,0	0,0	0,0
	Sfavorevoli		1,5	1,5	1,3

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 1	
2	SLU	Comb. SLU A1 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SLU	Comb. SLU A1 5	
6	SLU	Comb. SLU A1 6	
7	SLU	Comb. SLU A1 7	
8	SLU	Comb. SLU A1 8	
9	SLU	Comb. SLU A1 (SLV sism.) 9	
10	SLU	Comb. SLU A1 (SLV sism.) 10	
11	SLU	Comb. SLU A1 (SLV sism.) 11	
12	SLU	Comb. SLU A1 (SLV sism.) 12	
13	SLU	Comb. SLU A1 (SLV sism.) 13	
14	SLU	Comb. SLU A1 (SLV sism.) 14	
15	SLU	Comb. SLU A1 (SLV sism.) 15	
16	SLU	Comb. SLU A1 (SLV sism.) 16	
17	SLU	Comb. SLU A1 (SLV sism.) 17	
18	SLU	Comb. SLU A1 (SLV sism.) 18	
19	SLU	Comb. SLU A1 (SLV sism.) 19	
20	SLU	Comb. SLU A1 (SLV sism.) 20	
21	SLU	Comb. SLU A1 (SLV sism.) 21	
22	SLU	Comb. SLU A1 (SLV sism.) 22	
23	SLU	Comb. SLU A1 (SLV sism.) 23	
24	SLU	Comb. SLU A1 (SLV sism.) 24	
25	SLU	Comb. SLU A1 (SLV sism.) 25	
26	SLU	Comb. SLU A1 (SLV sism.) 26	
27	SLU	Comb. SLU A1 (SLV sism.) 27	
28	SLU	Comb. SLU A1 (SLV sism.) 28	
29	SLU	Comb. SLU A1 (SLV sism.) 29	
30	SLU	Comb. SLU A1 (SLV sism.) 30	
31	SLU	Comb. SLU A1 (SLV sism.) 31	
32	SLU	Comb. SLU A1 (SLV sism.) 32	
33	SLU	Comb. SLU A1 (SLV sism.) 33	
34	SLU	Comb. SLU A1 (SLV sism.) 34	
35	SLU	Comb. SLU A1 (SLV sism.) 35	
36	SLU	Comb. SLU A1 (SLV sism.) 36	
37	SLU	Comb. SLU A1 (SLV sism.) 37	
38	SLU	Comb. SLU A1 (SLV sism.) 38	
39	SLU	Comb. SLU A1 (SLV sism.) 39	
40	SLU	Comb. SLU A1 (SLV sism.) 40	
41	SLD(sis)	Comb. SLE (SLD Danno sism.) 41	
42	SLD(sis)	Comb. SLE (SLD Danno sism.) 42	
43	SLD(sis)	Comb. SLE (SLD Danno sism.) 43	
44	SLD(sis)	Comb. SLE (SLD Danno sism.) 44	

Cmb	Tipo	Sigla Id	effetto P-delta
45	SLD(sis)	Comb. SLE (SLD Danno sism.) 45	
46	SLD(sis)	Comb. SLE (SLD Danno sism.) 46	
47	SLD(sis)	Comb. SLE (SLD Danno sism.) 47	
48	SLD(sis)	Comb. SLE (SLD Danno sism.) 48	
49	SLD(sis)	Comb. SLE (SLD Danno sism.) 49	
50	SLD(sis)	Comb. SLE (SLD Danno sism.) 50	
51	SLD(sis)	Comb. SLE (SLD Danno sism.) 51	
52	SLD(sis)	Comb. SLE (SLD Danno sism.) 52	
53	SLD(sis)	Comb. SLE (SLD Danno sism.) 53	
54	SLD(sis)	Comb. SLE (SLD Danno sism.) 54	
55	SLD(sis)	Comb. SLE (SLD Danno sism.) 55	
56	SLD(sis)	Comb. SLE (SLD Danno sism.) 56	
57	SLD(sis)	Comb. SLE (SLD Danno sism.) 57	
58	SLD(sis)	Comb. SLE (SLD Danno sism.) 58	
59	SLD(sis)	Comb. SLE (SLD Danno sism.) 59	
60	SLD(sis)	Comb. SLE (SLD Danno sism.) 60	
61	SLD(sis)	Comb. SLE (SLD Danno sism.) 61	
62	SLD(sis)	Comb. SLE (SLD Danno sism.) 62	
63	SLD(sis)	Comb. SLE (SLD Danno sism.) 63	
64	SLD(sis)	Comb. SLE (SLD Danno sism.) 64	
65	SLD(sis)	Comb. SLE (SLD Danno sism.) 65	
66	SLD(sis)	Comb. SLE (SLD Danno sism.) 66	
67	SLD(sis)	Comb. SLE (SLD Danno sism.) 67	
68	SLD(sis)	Comb. SLE (SLD Danno sism.) 68	
69	SLD(sis)	Comb. SLE (SLD Danno sism.) 69	
70	SLD(sis)	Comb. SLE (SLD Danno sism.) 70	
71	SLD(sis)	Comb. SLE (SLD Danno sism.) 71	
72	SLD(sis)	Comb. SLE (SLD Danno sism.) 72	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.0	0.0	0.0	0.0
2	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.0	0.0	0.0	0.0
3	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	1.50	0.0	0.0	0.0
4	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	1.50	0.0	0.0	0.0
5	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0
6	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0
7	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.50	0.0	0.0	0.0
8	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.50	0.0	0.0	0.0
9	1.00	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
10	1.00	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
11	1.00	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
12	1.00	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
13	1.00	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
14	1.00	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
15	1.00	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
16	1.00	1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
17	1.00	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
18	1.00	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
19	1.00	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
20	1.00	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
21	1.00	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
22	1.00	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
23	1.00	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
24	1.00	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
25	1.00	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
26	1.00	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
27	1.00	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
28	1.00	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
29	1.00	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
30	1.00	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
31	1.00	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
32	1.00	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
33	1.00	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
34	1.00	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
35	1.00	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
36	1.00	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
37	1.00	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
38	1.00	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
39	1.00	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
40	1.00	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
41	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	1.00	0.80	0.0	0.0	0.0
42	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	1.00	0.80	0.0	0.0	0.0
43	1.00	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	1.00	0.80	0.0	0.0	0.0
44	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	1.00	0.80	0.0	0.0	0.0
45	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30	1.00	0.80	0.0	0.0	0.0
46	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30	1.00	0.80	0.0	0.0	0.0
47	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30	1.00	0.80	0.0	0.0	0.0
48	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30	1.00	0.80	0.0	0.0	0.0
49	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0	1.00	0.80	0.0	0.0	0.0
50	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0	1.00	0.80	0.0	0.0	0.0
51	1.00	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0	1.00	0.80	0.0	0.0	0.0

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
52	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
53	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	1.00	0.80	0.0	0.0	0.0
	0.0													
54	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	1.00	0.80	0.0	0.0	0.0
	0.0													
55	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	1.00	0.80	0.0	0.0	0.0
	0.0													
56	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	1.00	0.80	0.0	0.0	0.0
	0.0													
57	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
58	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
59	1.00	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
60	1.00	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
61	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
62	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
63	1.00	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
64	1.00	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
65	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00	1.00	0.80	0.0	0.0	0.0
	0.0													
66	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00	1.00	0.80	0.0	0.0	0.0
	0.0													
67	1.00	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00	1.00	0.80	0.0	0.0	0.0
	0.0													
68	1.00	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00	1.00	0.80	0.0	0.0	0.0
	0.0													
69	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	1.00	0.80	0.0	0.0	0.0
	0.0													
70	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	1.00	0.80	0.0	0.0	0.0
	0.0													
71	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	1.00	0.80	0.0	0.0	0.0
	0.0													
72	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	1.00	0.80	0.0	0.0	0.0
	0.0													

AZIONE SISMICA

VALUTAZIONE DELL' AZIONE SISMICA

L'azione sismica sulle costruzioni è valutata a partire dalla "pericolosità sismica di base", in condizioni ideali di sito di riferimento rigido con superficie topografica orizzontale.

Allo stato attuale, la pericolosità sismica su reticolo di riferimento nell'intervallo di riferimento è fornita dai dati pubblicati sul sito <http://esse1.mi.ingv.it/>. Per punti non coincidenti con il reticolo di riferimento e periodi di ritorno non contemplati direttamente si opera come indicato nell' allegato alle NTC (rispettivamente media pesata e interpolazione).

L' azione sismica viene definita in relazione ad un periodo di riferimento V_r che si ricava, per ciascun tipo di costruzione, moltiplicandone la vita nominale per il coefficiente d'uso (vedi tabella Parametri della struttura). Fissato il periodo di riferimento V_r e la probabilità di superamento P_{ver} associata a ciascuno degli stati limite considerati, si ottiene il periodo di ritorno T_r e i relativi parametri di pericolosità sismica (vedi tabella successiva):

a_g : accelerazione orizzontale massima del terreno;

F_o : valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;

T^*c : periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale;

Parametri della struttura					
Classe d'uso	Vita V_n [anni]	Coeff. Uso	Periodo V_r [anni]	Tipo di suolo	Categoria topografica
IV	100.0	2.0	200.0	C	T1

Individuati su reticolo di riferimento i parametri di pericolosità sismica si valutano i parametri spettrali riportati in tabella:

S è il coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche mediante la relazione seguente $S = S_s \cdot S_t$ (3.2.3)

F_o è il fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale

F_v è il fattore che quantifica l'amplificazione spettrale massima verticale, in termini di accelerazione orizzontale massima del terreno a_g su sito di riferimento rigido orizzontale

T_b è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante.

T_c è il periodo corrispondente all'inizio del tratto dello spettro a velocità costante.

T_d è il periodo corrispondente all'inizio del tratto dello spettro a spostamento costante.

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	9.190	45.464	
12260	9.146	45.457	3.507
12261	9.217	45.459	2.171
12039	9.214	45.509	5.325
12038	9.143	45.507	6.004

SL	P_{ver}	T_r	a_g	F_o	T^*c
		Anni	g		sec
SLO	81.0	120.0	0.033	2.590	0.220
SLD	63.0	201.0	0.039	2.630	0.250
SLV	10.0	1898.0	0.071	2.750	0.310
SLC	5.0	2475.0	0.075	2.780	0.310

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.033	1.500	2.590	0.638	0.127	0.381	1.733
SLD	0.039	1.500	2.630	0.698	0.138	0.415	1.754
SLV	0.071	1.500	2.750	0.986	0.160	0.479	1.882
SLC	0.075	1.500	2.780	1.031	0.160	0.479	1.902

RISULTATI ANALISI DINAMICHE

LEGENDA TABELLA ANALISI SISMICHE

Il programma consente l'analisi di diverse configurazioni sismiche.

Sono previsti, infatti, i seguenti casi di carico:

- 9. Esk** caso di carico sismico con analisi statica equivalente
- 10. Edk** caso di carico sismico con analisi dinamica

Ciascun caso di carico è caratterizzato da un angolo di ingresso e da una configurazione di masse determinante la forza sismica complessiva (si rimanda al capitolo relativo ai casi di carico per chiarimenti inerenti questo aspetto).

Nella colonna Note, in funzione della norma in uso sono riportati i parametri fondamentali che caratterizzano l'azione sismica: in particolare possono essere presenti i seguenti valori:

Angolo di ingresso	Angolo di ingresso dell'azione sismica orizzontale
Fattore di importanza	Fattore di importanza dell'edificio, in base alla categoria di appartenenza 28
Zona sismica	Zona sismica
Accelerazione ag	Accelerazione orizzontale massima sul suolo
Categoria suolo	Categoria di profilo stratigrafico del suolo di fondazione
Fattore q	Fattore di struttura/di comportamento. Dipendente dalla tipologia strutturale
Fattore di sito S	Fattore dipendente dalla stratigrafia e dal profilo topografico
Classe di duttilità CD	Classe di duttilità della struttura – "A" duttilità alta, "B" duttilità bassa
Fattore riduz. SLD	Fattore di riduzione dello spettro elastico per lo stato limite di danno
Periodo proprio T1	Periodo proprio di vibrazione della struttura
Coefficiente Lambda	Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura
Ordinata spettro Sd(T1)	Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale Svd)
Ordinata spettro Se(T1)	Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)
Ordinata spettro S (Tb-Tc)	Valore dell' ordinata dello spettro in uso nel tratto costante
numero di modi considerati	Numero di modi di vibrare della struttura considerati nell'analisi dinamica

Per ciascun caso di carico sismico viene riportato l'insieme di dati sotto riportati (le masse sono espresse in unità di forza):

- a) **analisi sismica statica equivalente:**
 - quota, posizione del centro di applicazione e azione orizzontale risultante, posizione del baricentro delle rigidezze, rapporto r/L_s (per strutture a nucleo), indici di regolarità e/r secondo EC8 4.2.3.2
 - azione sismica complessiva
- b) **analisi sismica dinamica con spettro di risposta:**
 - quota, posizione del centro di massa e massa risultante, posizione del baricentro delle rigidezze, rapporto r/L_s (per strutture a nucleo), indici di regolarità e/r secondo EC8 4.2.3.2
 - frequenza, periodo, accelerazione spettrale, massa eccitata nelle tre direzioni globali per tutti i modi
 - massa complessiva ed aliquota di massa complessiva eccitata.

Per ciascuna combinazione sismica definita SLD o SLO viene riportato il livello di deformazione η_T (dr) degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso anche in unità $1000 \cdot \eta_T/h$ da confrontare direttamente con i valori forniti nella norma (es. 5 per edifici con tamponamenti collegati rigidamente alla struttura, 10.0 per edifici con tamponamenti collegati elasticamente, 3 per edifici in muratura ordinaria, 4 per edifici in muratura armata).

Qualora si applichi il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") l'analisi sismica dinamica può essere comprensiva di sollecitazione verticale contemporanea a quella orizzontale, nel qual caso è effettuata una sovrapposizione degli effetti in ragione della radice dei quadrati degli effetti stessi. Per ciascuna combinazione sismica - analisi effettuate con il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") - viene riportato il livello di deformazione η_T , η_P e η_D degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso in unità $1000 \cdot \eta_T/h$ da confrontare direttamente con il valore 2 o 4 per la verifica.

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Per gli edifici sismicamente isolati si riportano di seguito le verifiche condotte sui dispositivi di isolamento. Le verifiche sono effettuate secondo la circolare n.7/2019 del C.S.LL.PP nelle combinazioni in SLC come previsto dal DM 17-01-2018. Per ogni combinazione è riportato il codice di verifica ed i valori utilizzati per la verifica: spostamento dE , area ridotta e dimensione A_2 , azione verticale, deformazioni di taglio dell'elastomero e tensioni nell'acciaio.

Qualora si applichi l'Ordinanza 3274 e s.m.i. le verifiche sono eseguite in accordo con l'allegato 10.A. In particolare la tabella, per ogni combinazione di calcolo, riporta:

Nodo	Nodo di appoggio dell' isolatore
Cmb	Combinazione oggetto della verifica
Verif.	Codice di verifica ok – verifica positiva , NV – verifica negativa, ND – verifica non completata
dE	Spostamento relativo tra le due facce (amplificato del 20% per Ordinanza 3274 e smi) combinato con la regola del 30%
Ang fi	Angolo utilizzato per il calcolo dell' area ridotta A_r (per dispositivi circolari)
V	Azione verticale agente
Ar	Area ridotta efficace
Dim A2	Dimensione utile per il calcolo della deformazione per rotazione
Sig s	Tensione nell' inserto in acciaio
Gam c(a,s,t)	Deformazioni di taglio dell' elastomero
Vcr	Carico critico per instabilità

Affinché la verifica sia positiva deve essere:

- 1) $V > 0$
- 2) $\text{Sig } s < f_{yk}$
- 3) $\text{Gam } t < 5$
- 4) $\text{Gam } s < \text{Gam } * \text{ (caratteristica dell' elastomero)}$
- 5) $\text{Gam } s < 2$
- 6) $V < 0.5 V_{cr}$

Lo zero sismico è imposto alla base ovvero a – 24 m circa dalle strutture in esame.

CDC	Tipo	Sigla Id	Note
2	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.291 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.022 sec.
			fattore q: 1.000
			fattore per spost. μ d: 1.000
			classe di duttilità CD: ND
			numero di modi considerati: 6
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	138.05	-2.81e-03	3.19	0.0	-0.30	0.0	0.0	0.0	0.0	0.0
Risulta	138.05									

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Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	13.180	0.076	0.194	0.0	0.0	0.0	0.0	69.03	50.0	0.0	0.0
2	45.646	0.022	0.131	76.29	55.3	0.09	6.58e-02	0.0	0.0	0.0	0.0
3	126.503	0.008	0.115	0.10	7.51e-02	68.71	49.8	0.0	0.0	0.0	0.0
4	349.528	0.003	0.109	0.0	0.0	0.0	0.0	0.01	8.54e-03	0.0	0.0
5	1.0020e+03	9.9801e-04	0.107	5.11e-03	3.70e-03	0.24	0.2	0.0	0.0	0.0	0.0
6	1.3633e+03	7.3353e-04	0.107	0.01	1.04e-02	7.34e-05	5.32e-05	0.0	0.0	0.0	0.0
Risulta				76.41		69.05		69.05			
In percentuale				55.35		50.01		50.01			

CDC	Tipo	Sigla Id	Note
3	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.291 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.020 sec.
			fattore q: 1.000
			fattore per spost. μ d: 1.000

CDC	Tipo	Sigla Id	Note
			classe di duttilità CD: ND
			numero di modi considerati: 6
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	138.05	-2.81e-03	3.19	0.0	0.30	0.0	0.0	0.0	0.0	0.0
Risulta	138.05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	13.180	0.076	0.194	0.0	0.0	0.0	0.0	69.03	50.0	0.0	0.0
2	50.798	0.020	0.129	61.55	44.6	0.12	8.77e-02	0.0	0.0	0.0	0.0
3	126.524	0.008	0.115	0.11	8.07e-02	68.68	49.8	0.0	0.0	0.0	0.0
4	349.528	0.003	0.109	0.0	0.0	0.0	0.0	0.01	8.54e-03	0.0	0.0
5	1.0021e+03	9.9792e-04	0.107	5.31e-03	3.84e-03	0.24	0.2	0.0	0.0	0.0	0.0
6	1.5173e+03	6.5907e-04	0.107	0.01	8.37e-03	2.49e-05	1.81e-05	0.0	0.0	0.0	0.0
Risulta				61.68		69.05		69.05			
In percentuale				44.68		50.01		50.01			

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CDC	Tipo	Sigla Id	Note
4	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.291 g
			angolo di ingresso: 90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.008 sec.
			fattore q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: ND
			numero di modi considerati: 6
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	138.05	-2.81e-03	3.19	0.06	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	138.05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	13.180	0.076	0.194	0.0	0.0	0.0	0.0	69.03	50.0	0.0	0.0
2	48.015	0.021	0.130	68.91	49.9	0.13	8.41e-02	0.0	0.0	0.0	0.0
3	122.477	0.008	0.115	0.12	8.61e-02	73.02	48.7	0.0	0.0	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
4	349.528	0.003	0.109	0.0	0.0	0.0	0.0	0.01	8.54e-03	0.0	0.0
5	1.4335e+03	6.9760e-04	0.107	0.01	9.06e-03	5.55e-05	3.70e-05	0.0	0.0	0.0	0.0
6	1.4335e+03	6.9760e-04	0.107	0.01	9.06e-03	5.55e-05	3.70e-05	0.0	0.0	0.0	0.0
Risulta				69.05		73.15		69.05			
In percentuale				50.01		48.83		50.01			

CDC	Tipo	Sigla Id	Note
5	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.291 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.008 sec.
			fattore q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: ND
			numero di modi considerati: 6
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	138.05	-2.81e-03	3.19	-0.06	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	138.05									

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Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	13.180	0.076	0.194	0.0	0.0	0.0	0.0	69.03	50.0	0.0	0.0
2	48.008	0.021	0.130	68.90	49.9	0.06	4.58e-02	0.0	0.0	0.0	0.0
3	130.490	0.008	0.115	0.08	6.11e-02	66.64	48.3	0.0	0.0	0.0	0.0
4	349.528	0.003	0.109	0.0	0.0	0.0	0.0	0.01	8.54e-03	0.0	0.0
5	352.963	0.003	0.109	0.05	3.52e-02	1.67	1.2	0.0	0.0	0.0	0.0
6	1.4338e+03	6.9744e-04	0.107	0.01	9.25e-03	0.0	0.0	0.0	0.0	0.0	0.0
Risulta				69.05		68.37		69.05			
In percentuale				50.01		49.53		50.01			

CDC	Tipo	Sigla Id	Note
6	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.152 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.022 sec.
			numero di modi considerati: 6
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	138.05	-2.81e-03	3.19	0.0	-0.30	0.0	0.0	0.0	0.0	0.0
Risulta	138.05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	13.180	0.076	0.110	0.0	0.0	0.0	0.0	69.03	50.0	0.0	0.0
2	45.646	0.022	0.073	76.29	55.3	0.09	6.58e-02	0.0	0.0	0.0	0.0
3	126.503	0.008	0.063	0.10	7.51e-02	68.71	49.8	0.0	0.0	0.0	0.0
4	349.528	0.003	0.060	0.0	0.0	0.0	0.0	0.01	8.54e-03	0.0	0.0
5	1.0020e+03	9.9801e-04	0.059	5.11e-03	3.70e-03	0.24	0.2	0.0	0.0	0.0	0.0
6	1.3633e+03	7.3353e-04	0.058	0.01	1.04e-02	7.34e-05	5.32e-05	0.0	0.0	0.0	0.0
Risulta				76.41		69.05		69.05			
In percentuale				55.35		50.01		50.01			

CDC	Tipo	Sigla Id	Note
7	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.152 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.020 sec.
			numero di modi considerati: 6
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	138.05	-2.81e-03	3.19	0.0	0.30	0.0	0.0	0.0	0.0	0.0
Risulta	138.05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	13.180	0.076	0.110	0.0	0.0	0.0	0.0	69.03	50.0	0.0	0.0
2	50.798	0.020	0.071	61.55	44.6	0.12	8.77e-02	0.0	0.0	0.0	0.0
3	126.524	0.008	0.063	0.11	8.07e-02	68.68	49.8	0.0	0.0	0.0	0.0
4	349.528	0.003	0.060	0.0	0.0	0.0	0.0	0.01	8.54e-03	0.0	0.0
5	1.0021e+03	9.9792e-04	0.059	5.31e-03	3.84e-03	0.24	0.2	0.0	0.0	0.0	0.0
6	1.5173e+03	6.5907e-04	0.058	0.01	8.37e-03	2.49e-05	1.81e-05	0.0	0.0	0.0	0.0
Risulta				61.68		69.05		69.05			
In percentuale				44.68		50.01		50.01			

CDC	Tipo	Sigla Id	Note
8	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.152 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.008 sec.
			numero di modi considerati: 6
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	138.05	-2.81e-03	3.19	0.06	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	138.05									

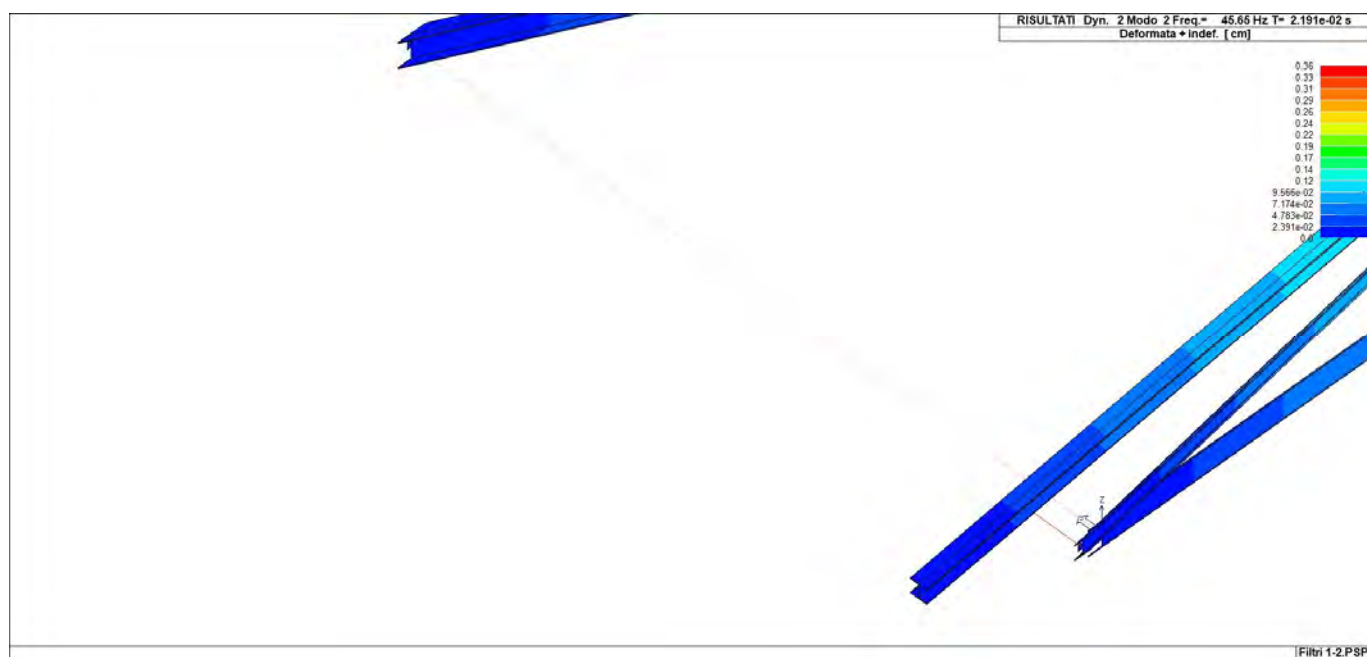
Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	13.180	0.076	0.110	0.0	0.0	0.0	0.0	69.03	50.0	0.0	0.0
2	48.015	0.021	0.072	68.91	49.9	0.13	8.41e-02	0.0	0.0	0.0	0.0
3	122.477	0.008	0.063	0.12	8.61e-02	73.02	48.7	0.0	0.0	0.0	0.0
4	349.528	0.003	0.060	0.0	0.0	0.0	0.0	0.01	8.54e-03	0.0	0.0
5	1.4335e+03	6.9760e-04	0.058	0.01	9.06e-03	5.55e-05	3.70e-05	0.0	0.0	0.0	0.0
6	1.4335e+03	6.9760e-04	0.058	0.01	9.06e-03	5.55e-05	3.70e-05	0.0	0.0	0.0	0.0
Risulta				69.05		73.15		69.05			
In percentuale				50.01		48.83		50.01			34

CDC	Tipo	Sigla Id	Note
9	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.152 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.008 sec.
			numero di modi considerati: 6
			combinaz. modale: CQC

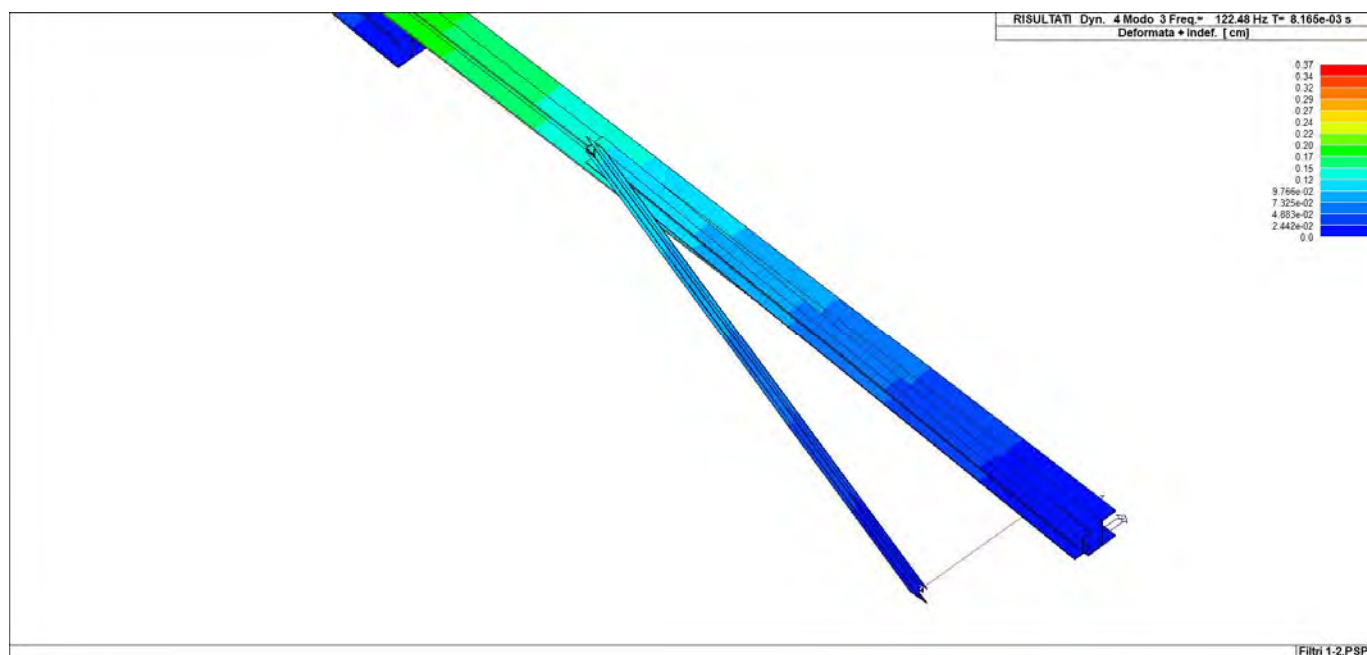
Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	138.05	-2.81e-03	3.19	-0.06	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	138.05									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
1	13.180	0.076	0.110	0.0	0.0	0.0	0.0	69.03	50.0	0.0	0.0
2	48.008	0.021	0.072	68.90	49.9	0.06	4.58e-02	0.0	0.0	0.0	0.0
3	130.490	0.008	0.063	0.08	6.11e-02	66.64	48.3	0.0	0.0	0.0	0.0
4	349.528	0.003	0.060	0.0	0.0	0.0	0.0	0.01	8.54e-03	0.0	0.0
5	352.963	0.003	0.060	0.05	3.52e-02	1.67	1.2	0.0	0.0	0.0	0.0
6	1.4338e+03	6.9744e-04	0.058	0.01	9.25e-03	0.0	0.0	0.0	0.0	0.0	0.0
Risulta				69.05		68.37		69.05			
In percentuale				50.01		49.53		50.01			



31_RIS_MODALX_002_CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)



31_RIS_MODALY_003_CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)

RISULTATI ANALISI ZONA FILTRO 1-2

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 1	
2	SLU	Comb. SLU A1 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SLU	Comb. SLU A1 5	
6	SLU	Comb. SLU A1 6	
7	SLU	Comb. SLU A1 7	
8	SLU	Comb. SLU A1 8	
9	SLU	Comb. SLU A1 (SLV sism.) 9	
10	SLU	Comb. SLU A1 (SLV sism.) 10	
11	SLU	Comb. SLU A1 (SLV sism.) 11	
12	SLU	Comb. SLU A1 (SLV sism.) 12	
13	SLU	Comb. SLU A1 (SLV sism.) 13	
14	SLU	Comb. SLU A1 (SLV sism.) 14	
15	SLU	Comb. SLU A1 (SLV sism.) 15	
16	SLU	Comb. SLU A1 (SLV sism.) 16	
17	SLU	Comb. SLU A1 (SLV sism.) 17	
18	SLU	Comb. SLU A1 (SLV sism.) 18	
19	SLU	Comb. SLU A1 (SLV sism.) 19	
20	SLU	Comb. SLU A1 (SLV sism.) 20	
21	SLU	Comb. SLU A1 (SLV sism.) 21	
22	SLU	Comb. SLU A1 (SLV sism.) 22	
23	SLU	Comb. SLU A1 (SLV sism.) 23	
24	SLU	Comb. SLU A1 (SLV sism.) 24	
25	SLU	Comb. SLU A1 (SLV sism.) 25	
26	SLU	Comb. SLU A1 (SLV sism.) 26	
27	SLU	Comb. SLU A1 (SLV sism.) 27	
28	SLU	Comb. SLU A1 (SLV sism.) 28	
29	SLU	Comb. SLU A1 (SLV sism.) 29	
30	SLU	Comb. SLU A1 (SLV sism.) 30	
31	SLU	Comb. SLU A1 (SLV sism.) 31	
32	SLU	Comb. SLU A1 (SLV sism.) 32	
33	SLU	Comb. SLU A1 (SLV sism.) 33	

Cmb	Tipo	Sigla Id	effetto P-delta
34	SLU	Comb. SLU A1 (SLV sism.) 34	
35	SLU	Comb. SLU A1 (SLV sism.) 35	
36	SLU	Comb. SLU A1 (SLV sism.) 36	
37	SLU	Comb. SLU A1 (SLV sism.) 37	
38	SLU	Comb. SLU A1 (SLV sism.) 38	
39	SLU	Comb. SLU A1 (SLV sism.) 39	
40	SLU	Comb. SLU A1 (SLV sism.) 40	
41	SLD(sis)	Comb. SLE (SLD Danno sism.) 41	
42	SLD(sis)	Comb. SLE (SLD Danno sism.) 42	
43	SLD(sis)	Comb. SLE (SLD Danno sism.) 43	
44	SLD(sis)	Comb. SLE (SLD Danno sism.) 44	
45	SLD(sis)	Comb. SLE (SLD Danno sism.) 45	
46	SLD(sis)	Comb. SLE (SLD Danno sism.) 46	
47	SLD(sis)	Comb. SLE (SLD Danno sism.) 47	
48	SLD(sis)	Comb. SLE (SLD Danno sism.) 48	
49	SLD(sis)	Comb. SLE (SLD Danno sism.) 49	
50	SLD(sis)	Comb. SLE (SLD Danno sism.) 50	
51	SLD(sis)	Comb. SLE (SLD Danno sism.) 51	
52	SLD(sis)	Comb. SLE (SLD Danno sism.) 52	
53	SLD(sis)	Comb. SLE (SLD Danno sism.) 53	
54	SLD(sis)	Comb. SLE (SLD Danno sism.) 54	
55	SLD(sis)	Comb. SLE (SLD Danno sism.) 55	
56	SLD(sis)	Comb. SLE (SLD Danno sism.) 56	
57	SLD(sis)	Comb. SLE (SLD Danno sism.) 57	
58	SLD(sis)	Comb. SLE (SLD Danno sism.) 58	
59	SLD(sis)	Comb. SLE (SLD Danno sism.) 59	
60	SLD(sis)	Comb. SLE (SLD Danno sism.) 60	
61	SLD(sis)	Comb. SLE (SLD Danno sism.) 61	
62	SLD(sis)	Comb. SLE (SLD Danno sism.) 62	
63	SLD(sis)	Comb. SLE (SLD Danno sism.) 63	
64	SLD(sis)	Comb. SLE (SLD Danno sism.) 64	
65	SLD(sis)	Comb. SLE (SLD Danno sism.) 65	
66	SLD(sis)	Comb. SLE (SLD Danno sism.) 66	
67	SLD(sis)	Comb. SLE (SLD Danno sism.) 67	
68	SLD(sis)	Comb. SLE (SLD Danno sism.) 68	
69	SLD(sis)	Comb. SLE (SLD Danno sism.) 69	
70	SLD(sis)	Comb. SLE (SLD Danno sism.) 70	
71	SLD(sis)	Comb. SLE (SLD Danno sism.) 71	
72	SLD(sis)	Comb. SLE (SLD Danno sism.) 72	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.0	0.0	0.0	0.0
2	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.0	0.0	0.0	0.0
3	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	1.50	0.0	0.0	0.0
4	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	1.50	0.0	0.0	0.0
5	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0
6	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0
7	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.50	0.0	0.0	0.0
8	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.50	0.0	0.0	0.0
9	1.00	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
10	1.00	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
11	1.00	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
12	1.00	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.0													
13	1.00	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
14	1.00	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
15	1.00	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
16	1.00	1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
17	1.00	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
18	1.00	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
19	1.00	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
20	1.00	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
21	1.00	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
22	1.00	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
23	1.00	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
24	1.00	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
25	1.00	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
26	1.00	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
27	1.00	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
28	1.00	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
29	1.00	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
30	1.00	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
31	1.00	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
32	1.00	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
33	1.00	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
34	1.00	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
35	1.00	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
36	1.00	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
37	1.00	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
38	1.00	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
39	1.00	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
40	1.00	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
41	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
42	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
43	1.00	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
44	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
45	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30	1.00	0.80	0.0	0.0	0.0
	0.0													
46	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30	1.00	0.80	0.0	0.0	0.0

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.0													
47	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30	1.00	0.80	0.0	0.0	0.0
	0.0													
48	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30	1.00	0.80	0.0	0.0	0.0
	0.0													
49	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
50	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
51	1.00	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
52	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
53	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	1.00	0.80	0.0	0.0	0.0
	0.0													
54	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	1.00	0.80	0.0	0.0	0.0
	0.0													
55	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	1.00	0.80	0.0	0.0	0.0
	0.0													
56	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	1.00	0.80	0.0	0.0	0.0
	0.0													
57	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
58	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
59	1.00	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
60	1.00	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
61	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
62	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
63	1.00	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
64	1.00	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0	1.00	0.80	0.0	0.0	0.0
	0.0													
65	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00	1.00	0.80	0.0	0.0	0.0
	0.0													
66	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00	1.00	0.80	0.0	0.0	0.0
	0.0													
67	1.00	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00	1.00	0.80	0.0	0.0	0.0
	0.0													
68	1.00	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00	1.00	0.80	0.0	0.0	0.0
	0.0													
69	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	1.00	0.80	0.0	0.0	0.0
	0.0													
70	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	1.00	0.80	0.0	0.0	0.0
	0.0													
71	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	1.00	0.80	0.0	0.0	0.0
	0.0													
72	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	1.00	0.80	0.0	0.0	0.0
	0.0													

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RISULTATI ANALISI SISMICHE

RISULTATI NODALI

LEGENDA RISULTATI NODALI

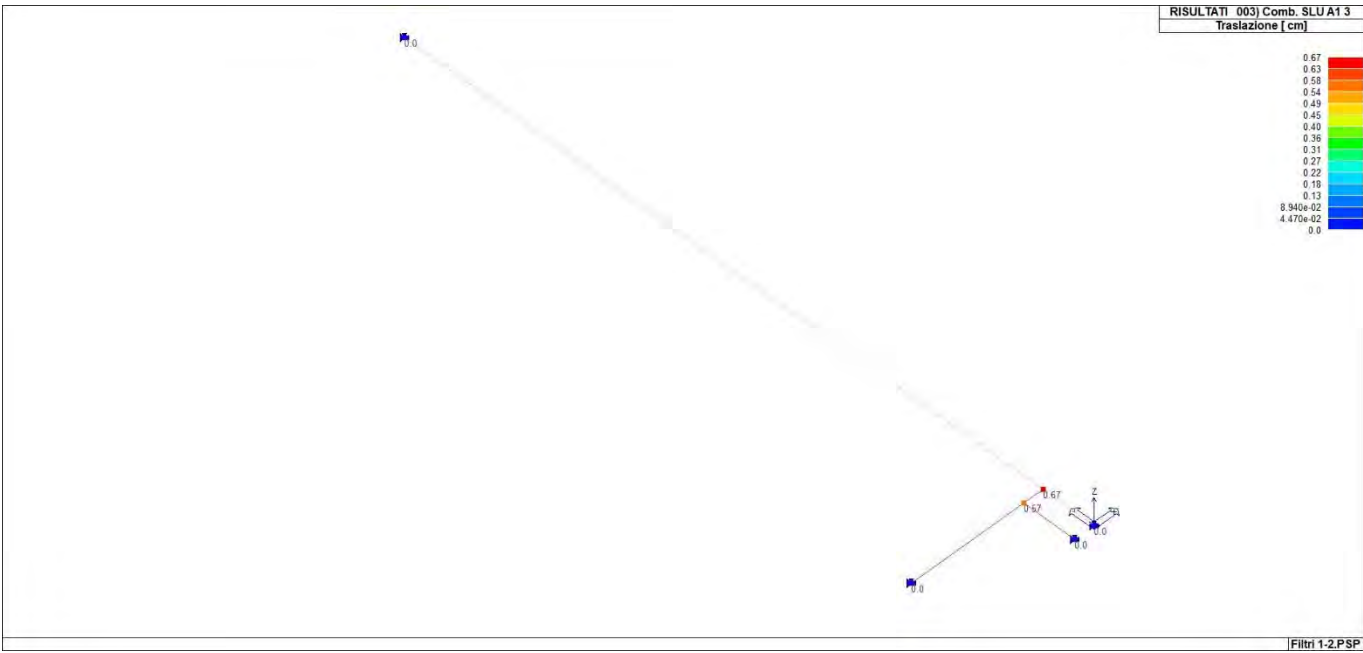
Il controllo dei risultati delle analisi condotte, per quanto concerne i nodi strutturali, è possibile in relazione alle tabelle sottoriportate.

Una prima tabella riporta infatti per ogni nodo e per ogni combinazione (o caso di carico) gli spostamenti nodali.

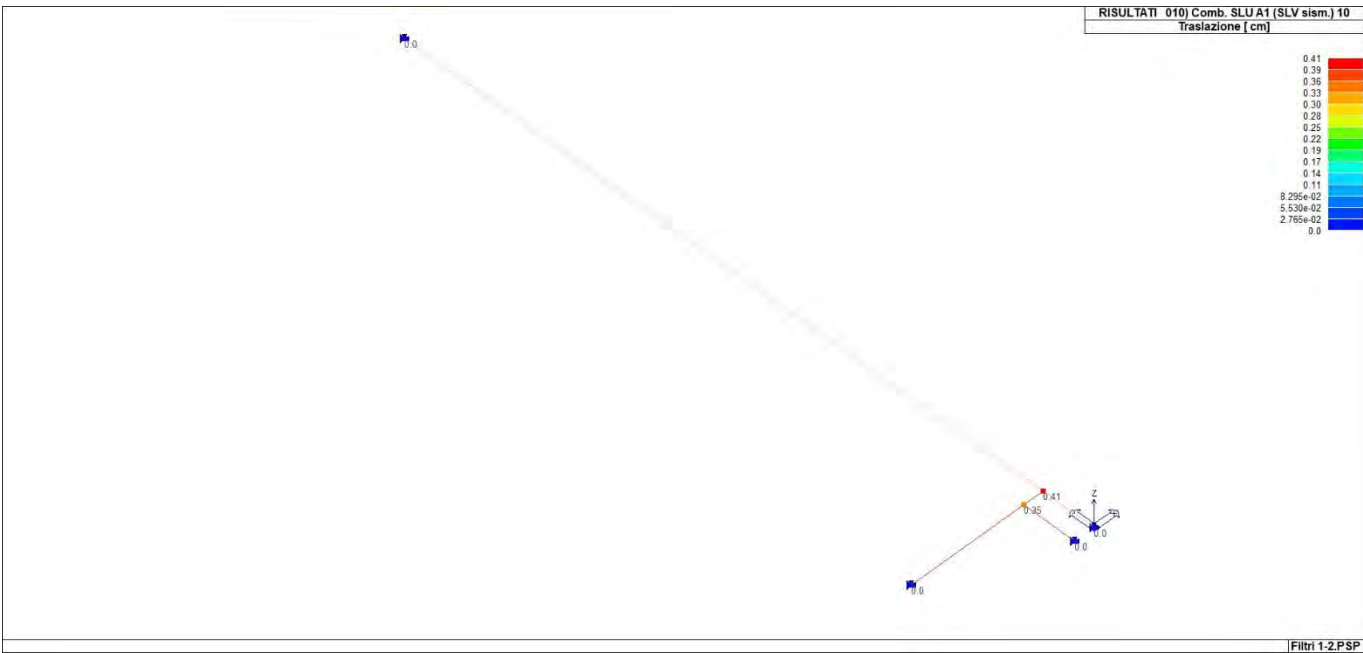
Una seconda tabella riporta per ogni nodo a cui sia associato un vincolo rigido e/o elastico o una fondazione speciale e per ogni combinazione (o caso di carico) i valori delle azioni esercitate dalla struttura sui vincoli (reazioni vincolari cambiate di segno).

Una terza tabella, infine riassume per ogni nodo le sei combinazioni in cui si attingono i valori minimi e massimi della reazione Fz, della reazione Mx e della reazione My.

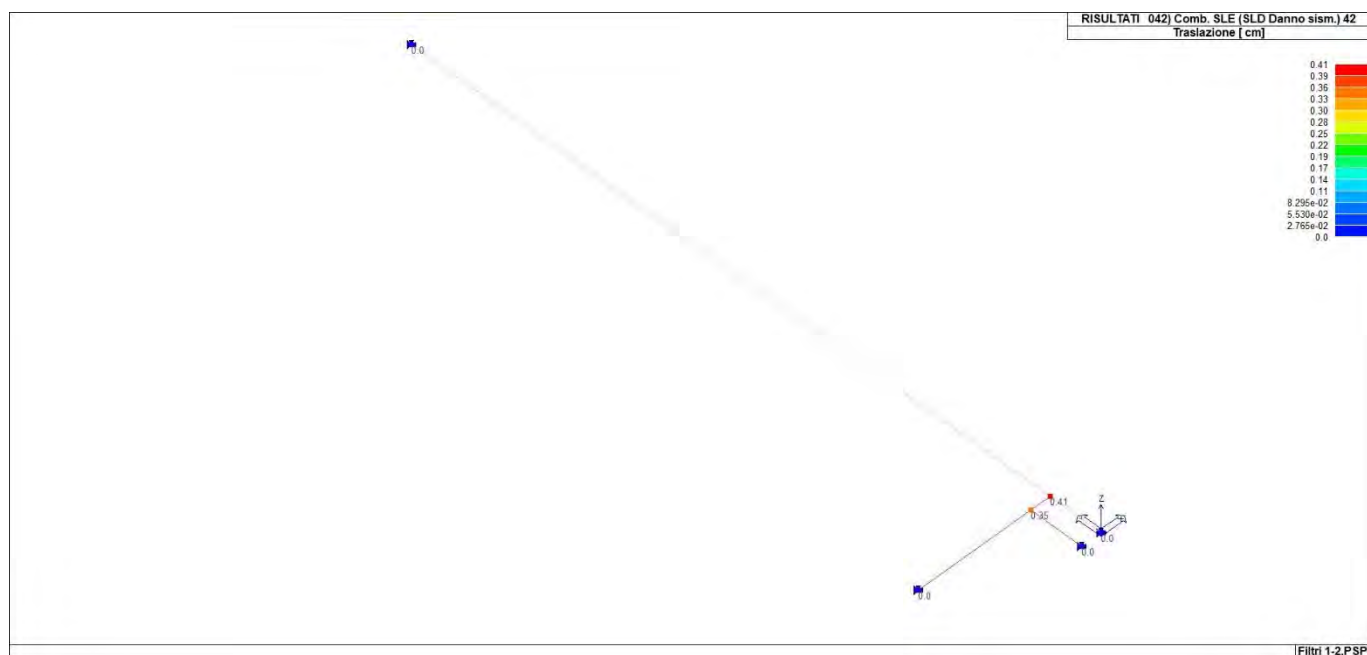
Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		cm	cm	cm			
1	1	0.0	0.0	0.0	-4.65e-03	2.12e-03	0.0
1	9	0.0	0.0	0.0	-7.97e-03	3.62e-03	5.83e-06
1	41	0.0	0.0	0.0	-7.97e-03	3.62e-03	3.24e-06
2	1	0.0	0.0	0.0	5.55e-03	2.09e-03	4.0e-06
2	9	0.0	0.0	0.0	9.51e-03	3.59e-03	1.70e-05
2	41	0.0	0.0	0.0	9.51e-03	3.59e-03	9.44e-06
3	1	0.0	0.0	-0.24	-5.34e-03	2.10e-03	0.0
3	3	0.0	0.0	-0.67	-0.01	5.82e-03	0.0
3	9	1.55e-03	-4.40e-06	-0.41	-9.15e-03	3.60e-03	-2.56e-05
3	10	1.58e-03	-1.19e-04	-0.41	-9.15e-03	3.60e-03	-2.71e-05
3	26	5.30e-04	-2.09e-04	-0.41	-9.15e-03	3.60e-03	-1.04e-05
3	41	8.59e-04	-2.72e-06	-0.41	-9.15e-03	3.60e-03	-1.42e-05
3	42	8.79e-04	-6.57e-05	-0.41	-9.15e-03	3.60e-03	-1.50e-05
3	58	2.94e-04	-1.15e-04	-0.41	-9.15e-03	3.60e-03	-5.76e-06
4	1	0.0	0.0	0.0	-5.50e-03	2.10e-03	0.0
4	9	0.0	0.0	0.0	-9.42e-03	3.60e-03	-4.03e-05
4	41	0.0	0.0	0.0	-9.42e-03	3.60e-03	-2.24e-05
5	1	0.0	0.0	-0.21	-4.65e-03	2.10e-03	0.0
5	3	0.0	0.0	-0.57	-0.01	5.82e-03	0.0
5	9	1.32e-03	1.56e-04	-0.35	-7.97e-03	3.60e-03	-6.89e-06
5	10	1.35e-03	1.17e-04	-0.35	-7.97e-03	3.60e-03	-1.12e-05
5	13	1.32e-03	1.57e-04	-0.35	-7.97e-03	3.60e-03	-7.27e-06
5	41	7.30e-04	8.67e-05	-0.35	-7.97e-03	3.60e-03	-3.84e-06
5	42	7.47e-04	6.52e-05	-0.35	-7.97e-03	3.60e-03	-6.20e-06
5	45	7.33e-04	8.72e-05	-0.35	-7.97e-03	3.60e-03	-4.04e-06
6	1	0.0	0.0	0.0	-4.65e-03	2.10e-03	0.0
6	9	0.0	0.0	0.0	-7.97e-03	3.60e-03	-4.16e-05
6	41	0.0	0.0	0.0	-7.97e-03	3.60e-03	-2.31e-05
Nodo		Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		0.0	-2.09e-04	-0.67	-0.01	2.09e-03	-4.16e-05
		1.58e-03	1.57e-04	0.0	9.51e-03	5.82e-03	1.70e-05



41_RIS_SPOSTAMENTI_003_Comb. SLU A1 3



41_RIS_SPOSTAMENTI_010_Comb. SLU A1 (SLV sism.) 10



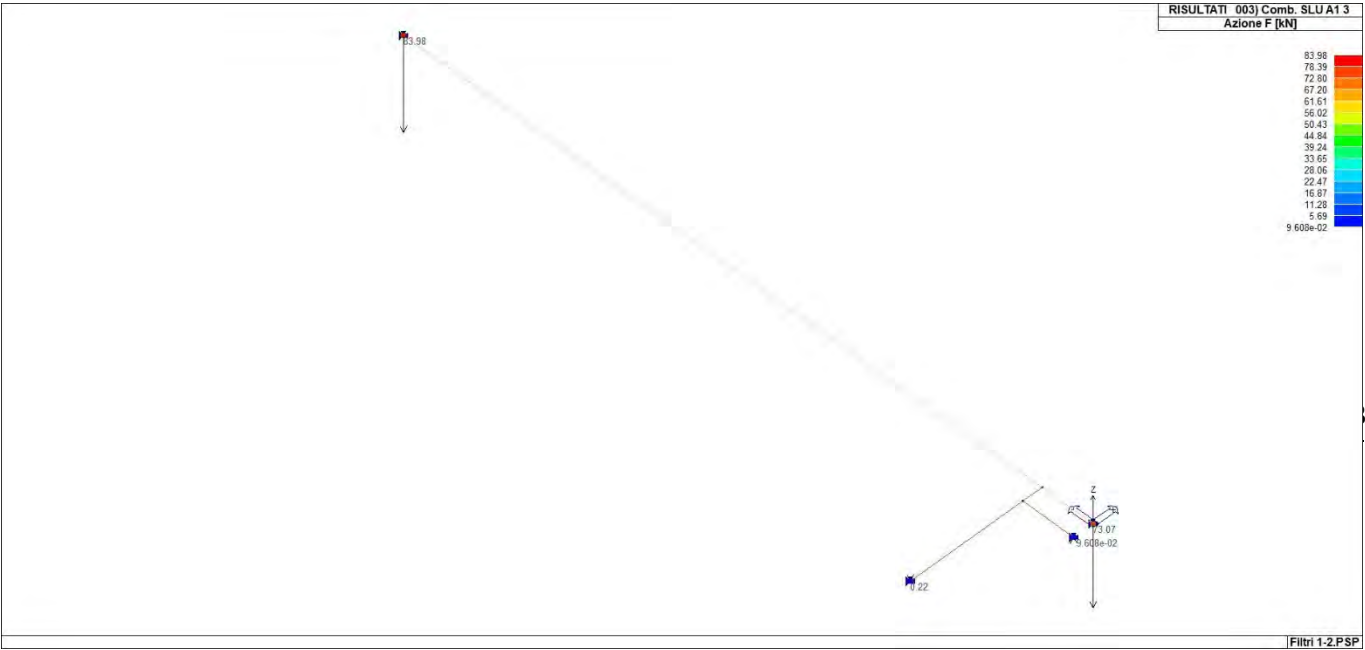
41_RIS_SPOSTAMENTI_042_Comb. SLE (SLD Danno sism.) 42

Nodo	Cmb	Azione X kN	Azione Y kN	Azione Z kN	Azione RX kN m	Azione RY kN m	Azione RZ kN m
1	1	0.0	0.0	-0.20	0.0	0.0	0.0
1	3	0.0	0.0	-0.22	0.0	0.0	0.0
1	5	0.0	0.0	-0.16	0.0	0.0	0.0
1	9	8.85	0.02	-0.17	0.0	0.0	0.0
1	41	4.91	0.01	-0.17	0.0	0.0	0.0
2	1	0.0	0.0	-30.28	0.0	0.0	0.0
2	3	0.0	0.0	-83.98	0.0	0.0	0.0
2	5	0.0	0.0	-23.29	0.0	0.0	0.0
2	9	0.02	-0.01	-51.93	0.0	0.0	0.0
2	41	9.35e-03	-7.34e-03	-51.93	0.0	0.0	0.0
4	1	0.0	0.0	-26.69	0.0	0.0	0.0
4	3	0.0	0.0	-73.07	0.0	0.0	0.0
4	5	0.0	0.0	-20.53	0.0	0.0	0.0
4	9	0.85	-0.16	-45.27	0.0	0.0	0.0
4	41	0.47	-0.10	-45.27	0.0	0.0	0.0
6	1	0.0	0.0	-0.01	0.0	0.0	0.0
6	7	0.0	0.0	0.10	0.0	0.0	0.0
6	9	0.29	2.32	0.05	0.0	0.0	0.0
6	41	0.16	1.29	0.05	0.0	0.0	0.0

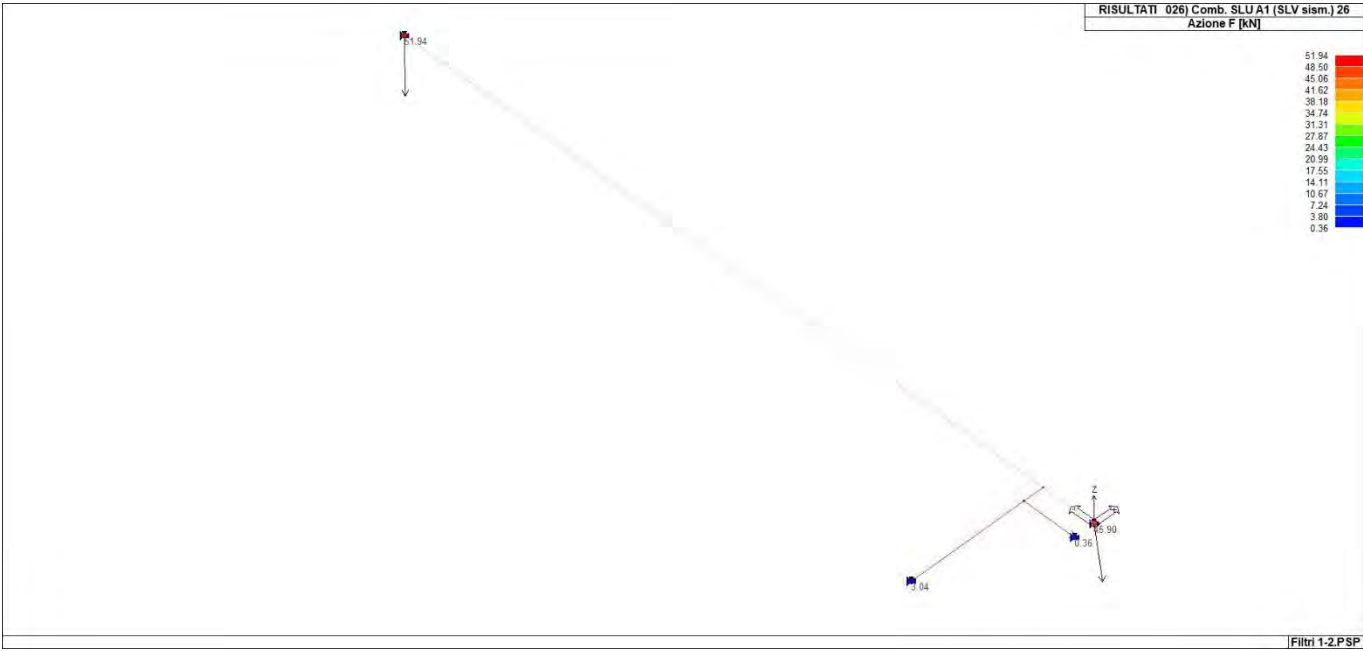
Nodo	Azione X kN	Azione Y kN	Azione Z kN	Azione RX kN m	Azione RY kN m	Azione RZ kN m
	0.0	-0.16	-83.98	0.0	0.0	0.0
	8.85	2.32	0.10	0.0	0.0	0.0

Nodo	Cmb	Azione X kN	Azione Y kN	Azione Z kN	Azione RX kN m	Azione RY kN m	Azione RZ kN m
1	3	0.0	0.0	-0.22	0.0	0.0	0.0
	5	0.0	0.0	-0.16	0.0	0.0	0.0
	1	0.0	0.0	-0.20	0.0	0.0	0.0
	1	0.0	0.0	-0.20	0.0	0.0	0.0
	1	0.0	0.0	-0.20	0.0	0.0	0.0
2	3	0.0	0.0	-83.98	0.0	0.0	0.0
	5	0.0	0.0	-23.29	0.0	0.0	0.0
	1	0.0	0.0	-30.28	0.0	0.0	0.0
	1	0.0	0.0	-30.28	0.0	0.0	0.0

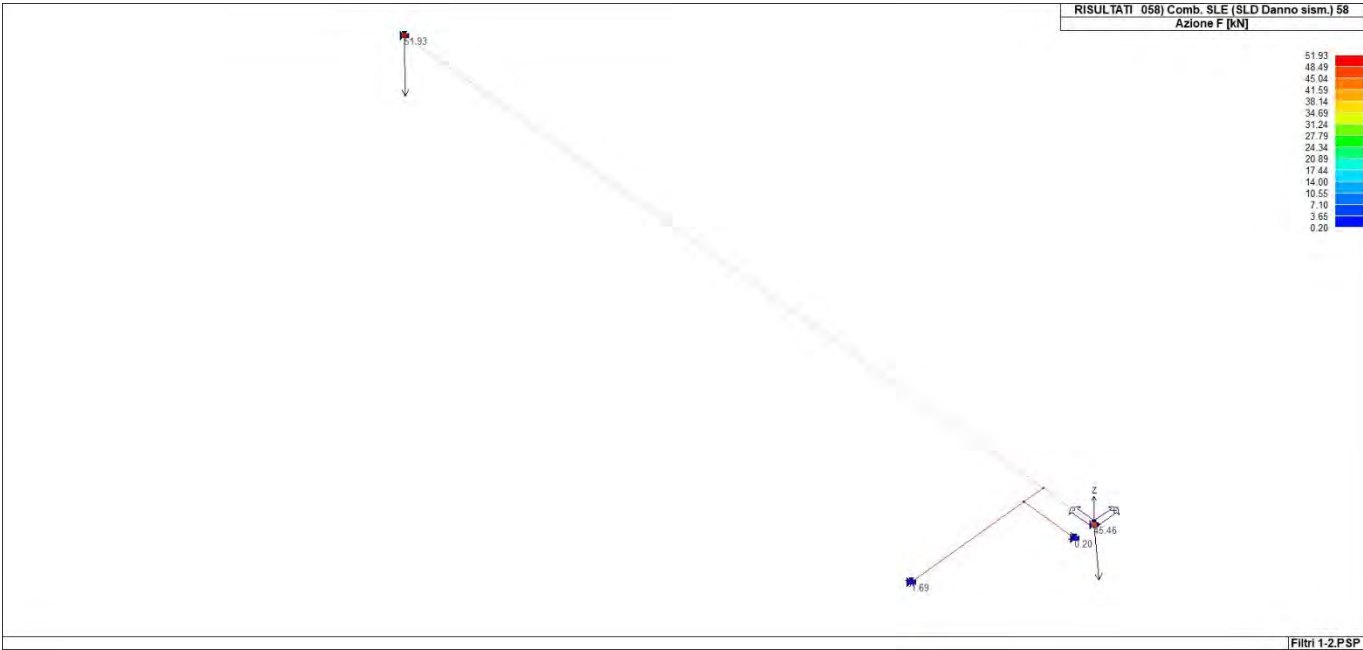
	1	0.0	0.0	-30.28	0.0	0.0	0.0
	1	0.0	0.0	-30.28	0.0	0.0	0.0
4	3	0.0	0.0	-73.07	0.0	0.0	0.0
	5	0.0	0.0	-20.53	0.0	0.0	0.0
	1	0.0	0.0	-26.69	0.0	0.0	0.0
	1	0.0	0.0	-26.69	0.0	0.0	0.0
	1	0.0	0.0	-26.69	0.0	0.0	0.0
6	1	0.0	0.0	-26.69	0.0	0.0	0.0
	1	0.0	0.0	-0.01	0.0	0.0	0.0
	7	0.0	0.0	0.10	0.0	0.0	0.0
	1	0.0	0.0	-0.01	0.0	0.0	0.0
	1	0.0	0.0	-0.01	0.0	0.0	0.0
	1	0.0	0.0	-0.01	0.0	0.0	0.0
	1	0.0	0.0	-0.01	0.0	0.0	0.0



42_RIS_REAZIONI_003_Comb. SLU A1 3



42_RIS_REAZIONI_026_Comb. SLU A1 (SLV sism.) 26



42_RIS_REAZIONI_058_Comb. SLE (SLD Danno sism.) 58

RISULTATI ELEMENTI TIPO TRAVE

LEGENDA RISULTATI ELEMENTI TIPO TRAVE

Il controllo dei risultati delle analisi condotte, per quanto concerne gli elementi tipo trave, è possibile in relazione alle tabelle sotto riportate.

Gli elementi vengono suddivisi in relazione alle proprietà in elementi:

- tipo **pilastro**
- tipo **trave in elevazione**
- tipo **trave in fondazione**

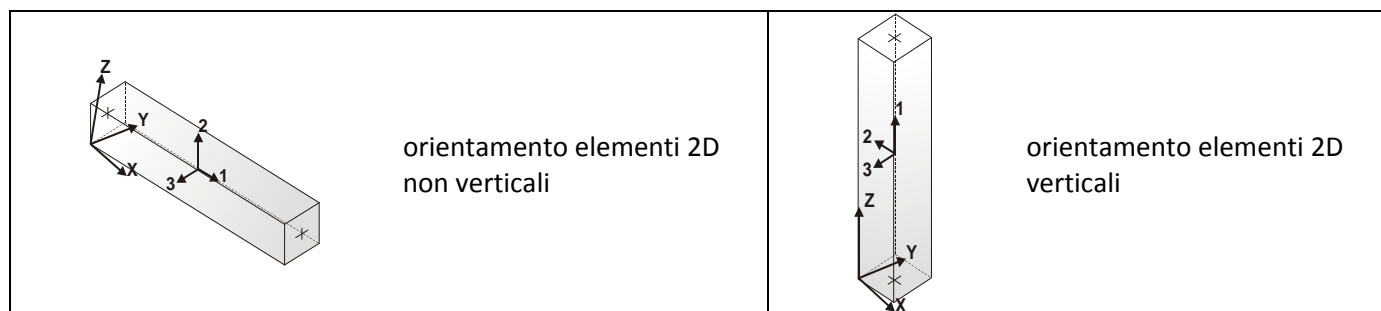
Per ogni elemento e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.

Per gli elementi tipo *pilastro* sono riportati in tabella i seguenti valori:

Pilas.	numero dell'elemento pilastro
Cmb	combinazione in cui si verificano i valori riportati
M3 mx/mn	momento flettente in campata M3 max (prima riga) / min (seconda riga)
M2 mx/mn	momento flettente in campata M2 max (prima riga) / min (seconda riga)
D2/D3	freccia massima in direzione 2 (prima riga) / direzione 3 (seconda riga)
Q2/Q3	carico totale in direzione 2 (prima riga) / direzione 3 (seconda riga)
Pos.	ascissa del punto iniziale e finale dell'elemento
N, V2, ecc..	sei componenti di sollecitazione al piede ed in sommità dell'elemento

Per gli elementi tipo *trave in elevazione* sono riportati, oltre al numero dell'elemento, i medesimi risultati visti per i pilastri.

Per gli elementi tipo *trave in fondazione* (trave f.) sono riportati, oltre al numero dell'elemento, i medesimi risultati visti per i pilastri e la massima pressione sul terreno.



Trave	Cmb	M3 mx/mn kN m	M2 mx/mn kN m	D 2 / D 3 m	Q 2 / Q 3 kN	Pos. cm	N kN	V 2 kN	V 3 kN	T kN m	M 2 kN m	M 3 kN m
1	1	1.76e-04 -0.03	0.0 0.0	-2.07e-03 0.0	-0.14 0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
						2.8	0.0	1.92e-03	0.0	0.0	0.0	1.76e-04
						5.6	0.0	-6.93e-03	0.0	0.0	0.0	1.06e-04
						8.3	0.0	-0.02	0.0	0.0	0.0	-2.09e-04
						11.1	0.0	-0.02	0.0	0.0	0.0	-7.69e-04
						13.9	0.0	-0.03	0.0	0.0	0.0	-1.58e-03
						16.7	0.0	-0.04	0.0	0.0	0.0	-2.63e-03
						19.4	0.0	-0.05	0.0	0.0	0.0	-3.92e-03
						22.2	0.0	-0.06	0.0	0.0	0.0	-5.47e-03
						25.0	0.0	-0.07	0.0	0.0	0.0	-7.26e-03
						27.8	0.0	-0.08	0.0	0.0	0.0	-9.29e-03
						30.5	0.0	-0.09	0.0	0.0	0.0	-0.01
						33.3	0.0	-0.10	0.0	0.0	0.0	-0.01
						36.1	0.0	-0.10	0.0	0.0	0.0	-0.02
						38.9	0.0	-0.11	0.0	0.0	0.0	-0.02
						41.7	0.0	-0.12	0.0	0.0	0.0	-0.02
1	3	0.0 -0.07	0.0 0.0	-5.72e-03 0.0	-0.14 0.0	44.4	0.0	-0.13	0.0	0.0	0.0	-0.03
						0.0	0.0	-0.10	0.0	0.0	0.0	0.0
						2.8	0.0	-0.10	0.0	0.0	0.0	-2.79e-03
						5.6	0.0	-0.11	0.0	0.0	0.0	-5.83e-03
						8.3	0.0	-0.12	0.0	0.0	0.0	-9.11e-03
						11.1	0.0	-0.13	0.0	0.0	0.0	-0.01
						13.9	0.0	-0.14	0.0	0.0	0.0	-0.02
						16.7	0.0	-0.15	0.0	0.0	0.0	-0.02
						19.4	0.0	-0.16	0.0	0.0	0.0	-0.02
						22.2	0.0	-0.17	0.0	0.0	0.0	-0.03
						25.0	0.0	-0.18	0.0	0.0	0.0	-0.03
						27.8	0.0	-0.18	0.0	0.0	0.0	-0.04
						30.5	0.0	-0.19	0.0	0.0	0.0	-0.04
						33.3	0.0	-0.20	0.0	0.0	0.0	-0.05
						36.1	0.0	-0.21	0.0	0.0	0.0	-0.06
						38.9	0.0	-0.22	0.0	0.0	0.0	-0.06
1	9	0.0 -0.05	0.0 -0.13	-3.54e-03 1.32e-05	-0.11 0.0	41.7	0.0	-0.23	0.0	0.0	0.0	-0.07
						44.4	0.0	-0.24	0.0	0.0	0.0	-0.07
						0.0	2.32	-0.05	-0.29	0.0	0.0	0.0
						2.8	2.32	-0.06	-0.29	0.0	-7.96e-03	-1.45e-03
						5.6	2.32	-0.06	-0.29	0.0	-0.02	-3.08e-03
						8.3	2.32	-0.07	-0.29	0.0	-0.02	-4.91e-03
						11.1	2.32	-0.08	-0.29	0.0	-0.03	-6.92e-03
						13.9	2.32	-0.08	-0.29	0.0	-0.04	-9.12e-03
						16.7	2.32	-0.09	-0.29	0.0	-0.05	-0.01
						19.4	2.32	-0.10	-0.29	0.0	-0.06	-0.01
						22.2	2.32	-0.10	-0.29	0.0	-0.06	-0.02
						25.0	2.32	-0.11	-0.29	0.0	-0.07	-0.02
						27.8	2.32	-0.12	-0.29	0.0	-0.08	-0.02
						30.5	2.32	-0.12	-0.29	0.0	-0.09	-0.03
						33.3	2.32	-0.13	-0.29	0.0	-0.10	-0.03
1	12	0.0 -0.05	0.13 0.0	-3.54e-03 -1.32e-05	-0.11 0.0	36.1	2.32	-0.14	-0.29	0.0	-0.10	-0.03
						38.9	2.32	-0.14	-0.29	0.0	-0.11	-0.04
						41.7	2.32	-0.15	-0.29	0.0	-0.12	-0.04
						44.4	2.32	-0.16	-0.29	0.0	-0.13	-0.05
						0.0	-2.32	-0.05	0.29	0.0	0.0	0.0
						2.8	-2.32	-0.06	0.29	0.0	7.96e-03	-1.45e-03
						5.6	-2.32	-0.06	0.29	0.0	0.02	-3.08e-03
						8.3	-2.32	-0.07	0.29	0.0	0.02	-4.91e-03
						11.1	-2.32	-0.08	0.29	0.0	0.03	-6.92e-03
						13.9	-2.32	-0.08	0.29	0.0	0.04	-9.12e-03
						16.7	-2.32	-0.09	0.29	0.0	0.05	-0.01
						19.4	-2.32	-0.10	0.29	0.0	0.06	-0.01
						22.2	-2.32	-0.10	0.29	0.0	0.06	-0.02
						25.0	-2.32	-0.11	0.29	0.0	0.07	-0.02
						27.8	-2.32	-0.12	0.29	0.0	0.08	-0.02
						30.5	-2.32	-0.12	0.29	0.0	0.09	-0.03
						33.3	-2.32	-0.13	0.29	0.0	0.10	-0.03
						36.1	-2.32	-0.14	0.29	0.0	0.10	-0.03
						38.9	-2.32	-0.14	0.29	0.0	0.11	-0.04
						41.7	-2.32	-0.15	0.29	0.0	0.12	-0.04

1	13	0.0 -0.05	0.0 -0.13	-3.54e-03 1.32e-05	-0.11 0.0	44.4	-2.32	-0.16	0.29	0.0	0.13	-0.05
						0.0	2.33	-0.05	-0.28	0.0	0.0	0.0
						2.8	2.33	-0.06	-0.28	0.0	-7.83e-03	-1.45e-03
						5.6	2.33	-0.06	-0.28	0.0	-0.02	-3.08e-03
						8.3	2.33	-0.07	-0.28	0.0	-0.02	-4.91e-03
						11.1	2.33	-0.08	-0.28	0.0	-0.03	-6.92e-03
						13.9	2.33	-0.08	-0.28	0.0	-0.04	-9.12e-03
						16.7	2.33	-0.09	-0.28	0.0	-0.05	-0.01
						19.4	2.33	-0.10	-0.28	0.0	-0.05	-0.01
						22.2	2.33	-0.10	-0.28	0.0	-0.06	-0.02
						25.0	2.33	-0.11	-0.28	0.0	-0.07	-0.02
						27.8	2.33	-0.12	-0.28	0.0	-0.08	-0.02
						30.5	2.33	-0.12	-0.28	0.0	-0.09	-0.03
						33.3	2.33	-0.13	-0.28	0.0	-0.09	-0.03
						36.1	2.33	-0.14	-0.28	0.0	-0.10	-0.03
1	16	0.0 -0.05	0.13 0.0	-3.54e-03 -1.32e-05	-0.11 0.0	44.4	2.33	-0.16	-0.28	0.0	-0.13	-0.05
						0.0	-2.33	-0.05	0.28	0.0	0.0	0.0
						2.8	-2.33	-0.06	0.28	0.0	7.83e-03	-1.45e-03
						5.6	-2.33	-0.06	0.28	0.0	0.02	-3.08e-03
						8.3	-2.33	-0.07	0.28	0.0	0.02	-4.91e-03
						11.1	-2.33	-0.08	0.28	0.0	0.03	-6.92e-03
						13.9	-2.33	-0.08	0.28	0.0	0.04	-9.12e-03
						16.7	-2.33	-0.09	0.28	0.0	0.05	-0.01
						19.4	-2.33	-0.10	0.28	0.0	0.05	-0.01
						22.2	-2.33	-0.10	0.28	0.0	0.06	-0.02
						25.0	-2.33	-0.11	0.28	0.0	0.07	-0.02
						27.8	-2.33	-0.12	0.28	0.0	0.08	-0.02
						30.5	-2.33	-0.12	0.28	0.0	0.09	-0.03
						33.3	-2.33	-0.13	0.28	0.0	0.09	-0.03
						36.1	-2.33	-0.14	0.28	0.0	0.10	-0.03
1	41	0.0 -0.05	0.0 -0.07	-3.54e-03 7.30e-06	-0.11 0.0	44.4	-2.33	-0.16	0.28	0.0	0.13	-0.05
						0.0	1.29	-0.05	-0.16	0.0	0.0	0.0
						2.8	1.29	-0.06	-0.16	0.0	-4.42e-03	-1.45e-03
						5.6	1.29	-0.06	-0.16	0.0	-8.84e-03	-3.08e-03
						8.3	1.29	-0.07	-0.16	0.0	-0.01	-4.91e-03
						11.1	1.29	-0.08	-0.16	0.0	-0.02	-6.92e-03
						13.9	1.29	-0.08	-0.16	0.0	-0.02	-9.12e-03
						16.7	1.29	-0.09	-0.16	0.0	-0.03	-0.01
						19.4	1.29	-0.10	-0.16	0.0	-0.03	-0.01
						22.2	1.29	-0.10	-0.16	0.0	-0.04	-0.02
						25.0	1.29	-0.11	-0.16	0.0	-0.04	-0.02
						27.8	1.29	-0.12	-0.16	0.0	-0.04	-0.02
						30.5	1.29	-0.12	-0.16	0.0	-0.05	-0.03
						33.3	1.29	-0.13	-0.16	0.0	-0.05	-0.03
						36.1	1.29	-0.14	-0.16	0.0	-0.06	-0.03
1	44	0.0 -0.05	0.07 0.0	-3.54e-03 -7.30e-06	-0.11 0.0	44.4	1.29	-0.16	-0.16	0.0	-0.07	-0.05
						0.0	-1.29	-0.05	0.16	0.0	0.0	0.0
						2.8	-1.29	-0.06	0.16	0.0	4.42e-03	-1.45e-03
						5.6	-1.29	-0.06	0.16	0.0	8.84e-03	-3.08e-03
						8.3	-1.29	-0.07	0.16	0.0	0.01	-4.91e-03
						11.1	-1.29	-0.08	0.16	0.0	0.02	-6.92e-03
						13.9	-1.29	-0.08	0.16	0.0	0.02	-9.12e-03
						16.7	-1.29	-0.09	0.16	0.0	0.03	-0.01
						19.4	-1.29	-0.10	0.16	0.0	0.03	-0.01
						22.2	-1.29	-0.10	0.16	0.0	0.04	-0.02
						25.0	-1.29	-0.11	0.16	0.0	0.04	-0.02
						27.8	-1.29	-0.12	0.16	0.0	0.04	-0.02
						30.5	-1.29	-0.12	0.16	0.0	0.05	-0.03
						33.3	-1.29	-0.13	0.16	0.0	0.05	-0.03
						36.1	-1.29	-0.14	0.16	0.0	0.06	-0.03
1	45	0.0 -0.05	0.0 -0.07	-3.54e-03 7.33e-06	-0.11 0.0	44.4	-1.29	-0.16	0.16	0.0	0.07	-0.05
						0.0	1.29	-0.05	-0.16	0.0	0.0	0.0
						2.8	1.29	-0.06	-0.16	0.0	-4.34e-03	-1.45e-03
						5.6	1.29	-0.06	-0.16	0.0	-8.69e-03	-3.08e-03

						8.3	1.29	-0.07	-0.16	0.0	-0.01	-4.91e-03
						11.1	1.29	-0.08	-0.16	0.0	-0.02	-6.92e-03
						13.9	1.29	-0.08	-0.16	0.0	-0.02	-9.12e-03
						16.7	1.29	-0.09	-0.16	0.0	-0.03	-0.01
						19.4	1.29	-0.10	-0.16	0.0	-0.03	-0.01
						22.2	1.29	-0.10	-0.16	0.0	-0.03	-0.02
						25.0	1.29	-0.11	-0.16	0.0	-0.04	-0.02
						27.8	1.29	-0.12	-0.16	0.0	-0.04	-0.02
						30.5	1.29	-0.12	-0.16	0.0	-0.05	-0.03
						33.3	1.29	-0.13	-0.16	0.0	-0.05	-0.03
						36.1	1.29	-0.14	-0.16	0.0	-0.06	-0.03
						38.9	1.29	-0.14	-0.16	0.0	-0.06	-0.04
						41.7	1.29	-0.15	-0.16	0.0	-0.07	-0.04
						44.4	1.29	-0.16	-0.16	0.0	-0.07	-0.05
1	48	0.0	0.07	-3.54e-03	-0.11	0.0	-1.29	-0.05	0.16	0.0	0.0	0.0
		-0.05	0.0	-7.33e-06	0.0	2.8	-1.29	-0.06	0.16	0.0	4.34e-03	-1.45e-03
						5.6	-1.29	-0.06	0.16	0.0	8.69e-03	-3.08e-03
						8.3	-1.29	-0.07	0.16	0.0	0.01	-4.91e-03
						11.1	-1.29	-0.08	0.16	0.0	0.02	-6.92e-03
						13.9	-1.29	-0.08	0.16	0.0	0.02	-9.12e-03
						16.7	-1.29	-0.09	0.16	0.0	0.03	-0.01
						19.4	-1.29	-0.10	0.16	0.0	0.03	-0.01
						22.2	-1.29	-0.10	0.16	0.0	0.03	-0.02
						25.0	-1.29	-0.11	0.16	0.0	0.04	-0.02
						27.8	-1.29	-0.12	0.16	0.0	0.04	-0.02
						30.5	-1.29	-0.12	0.16	0.0	0.05	-0.03
						33.3	-1.29	-0.13	0.16	0.0	0.05	-0.03
						36.1	-1.29	-0.14	0.16	0.0	0.06	-0.03
						38.9	-1.29	-0.14	0.16	0.0	0.06	-0.04
						41.7	-1.29	-0.15	0.16	0.0	0.07	-0.04
						44.4	-1.29	-0.16	0.16	0.0	0.07	-0.05
2	1	45.12	0.0	-7.89e-03	-56.33	0.0	0.0	26.05	0.0	0.0	0.0	11.75
		2.16e-06	0.0	0.0	0.0	34.7	0.0	22.53	0.0	0.0	0.0	20.19
						69.4	0.0	19.01	0.0	0.0	0.0	27.40
						104.2	0.0	15.49	0.0	0.0	0.0	33.39
						138.9	0.0	11.97	0.0	0.0	0.0	38.15
						173.6	0.0	8.45	0.0	0.0	0.0	41.76
						208.3	0.0	4.93	0.0	0.0	0.0	44.02
						243.1	0.0	1.40	0.0	0.0	0.0	45.12
						277.8	0.0	-2.12	0.0	0.0	0.0	44.99
						312.5	0.0	-5.64	0.0	0.0	0.0	43.65
						347.2	0.0	-9.16	0.0	0.0	0.0	41.08
						382.0	0.0	-12.68	0.0	0.0	0.0	37.29
						416.7	0.0	-16.20	0.0	0.0	0.0	32.28
						451.4	0.0	-19.72	0.0	0.0	0.0	26.04
						486.1	0.0	-23.24	0.0	0.0	0.0	18.58
						520.8	0.0	-26.76	0.0	0.0	0.0	9.90
						555.6	0.0	-30.28	0.0	0.0	0.0	2.16e-06
2	3	125.05	0.0	-0.02	-156.33	0.0	0.0	72.35	0.0	0.0	0.0	32.32
		6.85e-06	0.0	0.0	0.0	34.7	0.0	62.58	0.0	0.0	0.0	55.74
						69.4	0.0	52.81	0.0	0.0	0.0	75.78
						104.2	0.0	43.04	0.0	0.0	0.0	92.42
						138.9	0.0	33.26	0.0	0.0	0.0	105.66
						173.6	0.0	23.49	0.0	0.0	0.0	115.52
						208.3	0.0	13.72	0.0	0.0	0.0	121.98
						243.1	0.0	3.95	0.0	0.0	0.0	125.05
						277.8	0.0	-5.82	0.0	0.0	0.0	124.72
						312.5	0.0	-15.59	0.0	0.0	0.0	121.01
						347.2	0.0	-25.36	0.0	0.0	0.0	113.90
						382.0	0.0	-35.13	0.0	0.0	0.0	103.40
						416.7	0.0	-44.90	0.0	0.0	0.0	89.50
						451.4	0.0	-54.67	0.0	0.0	0.0	72.22
						486.1	0.0	-64.44	0.0	0.0	0.0	51.54
						520.8	0.0	-74.21	0.0	0.0	0.0	27.46
						555.6	0.0	-83.98	0.0	0.0	0.0	6.85e-06
2	5	34.71	0.0	-6.07e-03	-43.33	0.0	0.0	20.04	0.0	0.0	0.0	9.04
		1.66e-06	0.0	0.0	0.0	34.7	0.0	17.33	0.0	0.0	0.0	15.53
						69.4	0.0	14.62	0.0	0.0	0.0	21.08
						104.2	0.0	11.91	0.0	0.0	0.0	25.68
						138.9	0.0	9.20	0.0	0.0	0.0	29.35
						173.6	0.0	6.50	0.0	0.0	0.0	32.07
						208.3	0.0	3.79	0.0	0.0	0.0	33.86

						243.1	0.0	1.08	0.0	0.0	0.0	34.71
						277.8	0.0	-1.63	0.0	0.0	0.0	34.61
						312.5	0.0	-4.34	0.0	0.0	0.0	33.58
						347.2	0.0	-7.04	0.0	0.0	0.0	31.60
						382.0	0.0	-9.75	0.0	0.0	0.0	28.68
						416.7	0.0	-12.46	0.0	0.0	0.0	24.83
						451.4	0.0	-15.17	0.0	0.0	0.0	20.03
						486.1	0.0	-17.88	0.0	0.0	0.0	14.29
						520.8	0.0	-20.58	0.0	0.0	0.0	7.62
						555.6	0.0	-23.29	0.0	0.0	0.0	1.66e-06
2	9	77.33	0.0	-0.01	-96.66	0.0	0.01	44.73	0.02	0.0	-0.09	20.01
		4.16e-06	-0.09	2.43e-05	0.0	34.7	0.01	38.69	0.02	0.0	-0.08	34.49
						69.4	0.01	32.65	0.02	0.0	-0.08	46.88
						104.2	0.01	26.61	0.02	0.0	-0.07	57.16
						138.9	0.01	20.56	0.02	0.0	-0.07	65.35
						173.6	0.01	14.52	0.02	0.0	-0.06	71.44
						208.3	0.01	8.48	0.02	0.0	-0.06	75.44
						243.1	0.01	2.44	0.02	0.0	-0.05	77.33
						277.8	0.01	-3.60	0.02	0.0	-0.04	77.13
						312.5	0.01	-9.64	0.02	0.0	-0.04	74.83
						347.2	0.01	-15.68	0.02	0.0	-0.03	70.44
						382.0	0.01	-21.73	0.02	0.0	-0.03	63.94
						416.7	0.01	-27.77	0.02	0.0	-0.02	55.35
						451.4	0.01	-33.81	0.02	0.0	-0.02	44.66
						486.1	0.01	-39.85	0.02	0.0	-0.01	31.87
						520.8	0.01	-45.89	0.02	0.0	-5.57e-03	16.98
						555.6	0.01	-51.93	0.02	0.0	0.0	4.16e-06
2	10	77.33	0.0	-0.01	-96.66	0.0	0.34	44.73	0.02	0.0	-0.09	20.01
		4.16e-06	-0.09	2.57e-05	0.0	34.7	0.34	38.69	0.02	0.0	-0.09	34.49
						69.4	0.34	32.65	0.02	0.0	-0.08	46.88
						104.2	0.34	26.61	0.02	0.0	-0.08	57.16
						138.9	0.34	20.56	0.02	0.0	-0.07	65.35
						173.6	0.34	14.52	0.02	0.0	-0.06	71.44
						208.3	0.34	8.48	0.02	0.0	-0.06	75.44
						243.1	0.34	2.44	0.02	0.0	-0.05	77.33
						277.8	0.34	-3.60	0.02	0.0	-0.05	77.13
						312.5	0.34	-9.64	0.02	0.0	-0.04	74.83
						347.2	0.34	-15.68	0.02	0.0	-0.04	70.44
						382.0	0.34	-21.73	0.02	0.0	-0.03	63.94
						416.7	0.34	-27.77	0.02	0.0	-0.02	55.35
						451.4	0.34	-33.81	0.02	0.0	-0.02	44.66
						486.1	0.34	-39.85	0.02	0.0	-0.01	31.87
						520.8	0.34	-45.89	0.02	0.0	-5.87e-03	16.98
						555.6	0.34	-51.93	0.02	0.0	0.0	4.16e-06
2	11	77.33	0.09	-0.01	-96.66	0.0	-0.34	44.73	-0.02	0.0	0.09	20.01
		4.16e-06	0.0	-2.57e-05	0.0	34.7	-0.34	38.69	-0.02	0.0	0.09	34.49
						69.4	-0.34	32.65	-0.02	0.0	0.08	46.88
						104.2	-0.34	26.61	-0.02	0.0	0.08	57.16
						138.9	-0.34	20.56	-0.02	0.0	0.07	65.35
						173.6	-0.34	14.52	-0.02	0.0	0.06	71.44
						208.3	-0.34	8.48	-0.02	0.0	0.06	75.44
						243.1	-0.34	2.44	-0.02	0.0	0.05	77.33
						277.8	-0.34	-3.60	-0.02	0.0	0.05	77.13
						312.5	-0.34	-9.64	-0.02	0.0	0.04	74.83
						347.2	-0.34	-15.68	-0.02	0.0	0.04	70.44
						382.0	-0.34	-21.73	-0.02	0.0	0.03	63.94
						416.7	-0.34	-27.77	-0.02	0.0	0.02	55.35
						451.4	-0.34	-33.81	-0.02	0.0	0.02	44.66
						486.1	-0.34	-39.85	-0.02	0.0	0.01	31.87
						520.8	-0.34	-45.89	-0.02	0.0	5.87e-03	16.98
						555.6	-0.34	-51.93	-0.02	0.0	0.0	4.16e-06
2	26	77.33	0.0	-0.01	-96.66	0.0	0.61	44.73	6.37e-03	0.0	-0.04	20.01
		4.16e-06	-0.04	9.94e-06	0.0	34.7	0.61	38.69	6.37e-03	0.0	-0.03	34.49
						69.4	0.61	32.65	6.37e-03	0.0	-0.03	46.88
						104.2	0.61	26.61	6.37e-03	0.0	-0.03	57.16
						138.9	0.61	20.56	6.37e-03	0.0	-0.03	65.35
						173.6	0.61	14.52	6.37e-03	0.0	-0.02	71.44
						208.3	0.61	8.48	6.37e-03	0.0	-0.02	75.44
						243.1	0.61	2.44	6.37e-03	0.0	-0.02	77.33
						277.8	0.61	-3.60	6.37e-03	0.0	-0.02	77.13
						312.5	0.61	-9.64	6.37e-03	0.0	-0.02	74.83
						347.2	0.61	-15.68	6.37e-03	0.0	-0.01	70.44

						382.0	0.61	-21.73	6.37e-03	0.0	-0.01	63.94
						416.7	0.61	-27.77	6.37e-03	0.0	-8.85e-03	55.35
						451.4	0.61	-33.81	6.37e-03	0.0	-6.64e-03	44.66
						486.1	0.61	-39.85	6.37e-03	0.0	-4.43e-03	31.87
						520.8	0.61	-45.89	6.37e-03	0.0	-2.21e-03	16.98
						555.6	0.61	-51.93	6.37e-03	0.0	0.0	4.16e-06
2	27	77.33	0.04	-0.01	-96.66	0.0	-0.61	44.73	-6.37e-03	0.0	0.04	20.01
		4.16e-06	0.0	-9.94e-06	0.0	34.7	-0.61	38.69	-6.37e-03	0.0	0.03	34.49
						69.4	-0.61	32.65	-6.37e-03	0.0	0.03	46.88
						104.2	-0.61	26.61	-6.37e-03	0.0	0.03	57.16
						138.9	-0.61	20.56	-6.37e-03	0.0	0.03	65.35
						173.6	-0.61	14.52	-6.37e-03	0.0	0.02	71.44
						208.3	-0.61	8.48	-6.37e-03	0.0	0.02	75.44
						243.1	-0.61	2.44	-6.37e-03	0.0	0.02	77.33
						277.8	-0.61	-3.60	-6.37e-03	0.0	0.02	77.13
						312.5	-0.61	-9.64	-6.37e-03	0.0	0.02	74.83
						347.2	-0.61	-15.68	-6.37e-03	0.0	0.01	70.44
						382.0	-0.61	-21.73	-6.37e-03	0.0	0.01	63.94
						416.7	-0.61	-27.77	-6.37e-03	0.0	8.85e-03	55.35
						451.4	-0.61	-33.81	-6.37e-03	0.0	6.64e-03	44.66
						486.1	-0.61	-39.85	-6.37e-03	0.0	4.43e-03	31.87
						520.8	-0.61	-45.89	-6.37e-03	0.0	2.21e-03	16.98
						555.6	-0.61	-51.93	-6.37e-03	0.0	0.0	4.16e-06
2	41	77.33	0.0	-0.01	-96.66	0.0	7.34e-03	44.73	8.91e-03	0.0	-0.05	20.01
		4.16e-06	-0.05	1.35e-05	0.0	34.7	7.34e-03	38.69	8.91e-03	0.0	-0.05	34.49
						69.4	7.34e-03	32.65	8.91e-03	0.0	-0.04	46.88
						104.2	7.34e-03	26.61	8.91e-03	0.0	-0.04	57.16
						138.9	7.34e-03	20.56	8.91e-03	0.0	-0.04	65.35
						173.6	7.34e-03	14.52	8.91e-03	0.0	-0.03	71.44
						208.3	7.34e-03	8.48	8.91e-03	0.0	-0.03	75.44
						243.1	7.34e-03	2.44	8.91e-03	0.0	-0.03	77.33
						277.8	7.34e-03	-3.60	8.91e-03	0.0	-0.02	77.13
						312.5	7.34e-03	-9.64	8.91e-03	0.0	-0.02	74.83
						347.2	7.34e-03	-15.68	8.91e-03	0.0	-0.02	70.44
						382.0	7.34e-03	-21.73	8.91e-03	0.0	-0.02	63.94
						416.7	7.34e-03	-27.77	8.91e-03	0.0	-0.01	55.35
						451.4	7.34e-03	-33.81	8.91e-03	0.0	-9.29e-03	44.66
						486.1	7.34e-03	-39.85	8.91e-03	0.0	-6.19e-03	31.87
						520.8	7.34e-03	-45.89	8.91e-03	0.0	-3.10e-03	16.98
						555.6	7.34e-03	-51.93	8.91e-03	0.0	0.0	4.16e-06
2	42	77.33	0.0	-0.01	-96.66	0.0	0.19	44.73	9.39e-03	0.0	-0.05	20.01
		4.16e-06	-0.05	1.43e-05	0.0	34.7	0.19	38.69	9.39e-03	0.0	-0.05	34.49
						69.4	0.19	32.65	9.39e-03	0.0	-0.05	46.88
						104.2	0.19	26.61	9.39e-03	0.0	-0.04	57.16
						138.9	0.19	20.56	9.39e-03	0.0	-0.04	65.35
						173.6	0.19	14.52	9.39e-03	0.0	-0.04	71.44
						208.3	0.19	8.48	9.39e-03	0.0	-0.03	75.44
						243.1	0.19	2.44	9.39e-03	0.0	-0.03	77.33
						277.8	0.19	-3.60	9.39e-03	0.0	-0.03	77.13
						312.5	0.19	-9.64	9.39e-03	0.0	-0.02	74.83
						347.2	0.19	-15.68	9.39e-03	0.0	-0.02	70.44
						382.0	0.19	-21.73	9.39e-03	0.0	-0.02	63.94
						416.7	0.19	-27.77	9.39e-03	0.0	-0.01	55.35
						451.4	0.19	-33.81	9.39e-03	0.0	-9.78e-03	44.66
						486.1	0.19	-39.85	9.39e-03	0.0	-6.52e-03	31.87
						520.8	0.19	-45.89	9.39e-03	0.0	-3.26e-03	16.98
						555.6	0.19	-51.93	9.39e-03	0.0	0.0	4.16e-06
2	43	77.33	0.05	-0.01	-96.66	0.0	-0.19	44.73	-9.39e-03	0.0	0.05	20.01
		4.16e-06	0.0	-1.43e-05	0.0	34.7	-0.19	38.69	-9.39e-03	0.0	0.05	34.49
						69.4	-0.19	32.65	-9.39e-03	0.0	0.05	46.88
						104.2	-0.19	26.61	-9.39e-03	0.0	0.04	57.16
						138.9	-0.19	20.56	-9.39e-03	0.0	0.04	65.35
						173.6	-0.19	14.52	-9.39e-03	0.0	0.04	71.44
						208.3	-0.19	8.48	-9.39e-03	0.0	0.03	75.44
						243.1	-0.19	2.44	-9.39e-03	0.0	0.03	77.33
						277.8	-0.19	-3.60	-9.39e-03	0.0	0.03	77.13
						312.5	-0.19	-9.64	-9.39e-03	0.0	0.02	74.83
						347.2	-0.19	-15.68	-9.39e-03	0.0	0.02	70.44
						382.0	-0.19	-21.73	-9.39e-03	0.0	0.02	63.94
						416.7	-0.19	-27.77	-9.39e-03	0.0	0.01	55.35
						451.4	-0.19	-33.81	-9.39e-03	0.0	9.78e-03	44.66
						486.1	-0.19	-39.85	-9.39e-03	0.0	6.52e-03	31.87

						520.8	-0.19	-45.89	-9.39e-03	0.0	3.26e-03	16.98
						555.6	-0.19	-51.93	-9.39e-03	0.0	0.0	4.16e-06
2	58	77.33	0.0	-0.01	-96.66	0.0	0.33	44.73	3.53e-03	0.0	-0.02	20.01
		4.16e-06	-0.02	5.51e-06	0.0	34.7	0.33	38.69	3.53e-03	0.0	-0.02	34.49
						69.4	0.33	32.65	3.53e-03	0.0	-0.02	46.88
						104.2	0.33	26.61	3.53e-03	0.0	-0.02	57.16
						138.9	0.33	20.56	3.53e-03	0.0	-0.01	65.35
						173.6	0.33	14.52	3.53e-03	0.0	-0.01	71.44
						208.3	0.33	8.48	3.53e-03	0.0	-0.01	75.44
						243.1	0.33	2.44	3.53e-03	0.0	-0.01	77.33
						277.8	0.33	-3.60	3.53e-03	0.0	-9.81e-03	77.13
						312.5	0.33	-9.64	3.53e-03	0.0	-8.59e-03	74.83
						347.2	0.33	-15.68	3.53e-03	0.0	-7.36e-03	70.44
						382.0	0.33	-21.73	3.53e-03	0.0	-6.13e-03	63.94
						416.7	0.33	-27.77	3.53e-03	0.0	-4.91e-03	55.35
						451.4	0.33	-33.81	3.53e-03	0.0	-3.68e-03	44.66
						486.1	0.33	-39.85	3.53e-03	0.0	-2.45e-03	31.87
						520.8	0.33	-45.89	3.53e-03	0.0	-1.23e-03	16.98
						555.6	0.33	-51.93	3.53e-03	0.0	0.0	4.16e-06
2	59	77.33	0.02	-0.01	-96.66	0.0	-0.33	44.73	-3.53e-03	0.0	0.02	20.01
		4.16e-06	0.0	-5.51e-06	0.0	34.7	-0.33	38.69	-3.53e-03	0.0	0.02	34.49
						69.4	-0.33	32.65	-3.53e-03	0.0	0.02	46.88
						104.2	-0.33	26.61	-3.53e-03	0.0	0.02	57.16
						138.9	-0.33	20.56	-3.53e-03	0.0	0.01	65.35
						173.6	-0.33	14.52	-3.53e-03	0.0	0.01	71.44
						208.3	-0.33	8.48	-3.53e-03	0.0	0.01	75.44
						243.1	-0.33	2.44	-3.53e-03	0.0	0.01	77.33
						277.8	-0.33	-3.60	-3.53e-03	0.0	9.81e-03	77.13
						312.5	-0.33	-9.64	-3.53e-03	0.0	8.59e-03	74.83
						347.2	-0.33	-15.68	-3.53e-03	0.0	7.36e-03	70.44
						382.0	-0.33	-21.73	-3.53e-03	0.0	6.13e-03	63.94
						416.7	-0.33	-27.77	-3.53e-03	0.0	4.91e-03	55.35
						451.4	-0.33	-33.81	-3.53e-03	0.0	3.68e-03	44.66
						486.1	-0.33	-39.85	-3.53e-03	0.0	2.45e-03	31.87
						520.8	-0.33	-45.89	-3.53e-03	0.0	1.23e-03	16.98
						555.6	-0.33	-51.93	-3.53e-03	0.0	0.0	4.16e-06
3	1	11.78	0.0	-2.42e-03	-0.35	0.0	0.0	26.69	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	2.8	0.0	26.66	0.0	0.0	0.0	0.74
						5.6	0.0	26.64	0.0	0.0	0.0	1.48
						8.3	0.0	26.62	0.0	0.0	0.0	2.22
						11.1	0.0	26.60	0.0	0.0	0.0	2.96
						13.9	0.0	26.58	0.0	0.0	0.0	3.70
						16.7	0.0	26.56	0.0	0.0	0.0	4.44
						19.4	0.0	26.53	0.0	0.0	0.0	5.17
						22.2	0.0	26.51	0.0	0.0	0.0	5.91
						25.0	0.0	26.49	0.0	0.0	0.0	6.65
						27.8	0.0	26.47	0.0	0.0	0.0	7.38
						30.5	0.0	26.45	0.0	0.0	0.0	8.12
						33.3	0.0	26.43	0.0	0.0	0.0	8.85
						36.1	0.0	26.40	0.0	0.0	0.0	9.58
						38.9	0.0	26.38	0.0	0.0	0.0	10.32
						41.7	0.0	26.36	0.0	0.0	0.0	11.05
						44.4	0.0	26.34	0.0	0.0	0.0	11.78
3	3	32.39	0.0	-6.71e-03	-0.35	0.0	0.0	73.07	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	2.8	0.0	73.05	0.0	0.0	0.0	2.03
						5.6	0.0	73.03	0.0	0.0	0.0	4.06
						8.3	0.0	73.01	0.0	0.0	0.0	6.09
						11.1	0.0	72.99	0.0	0.0	0.0	8.11
						13.9	0.0	72.96	0.0	0.0	0.0	10.14
						16.7	0.0	72.94	0.0	0.0	0.0	12.17
						19.4	0.0	72.92	0.0	0.0	0.0	14.19
						22.2	0.0	72.90	0.0	0.0	0.0	16.22
						25.0	0.0	72.88	0.0	0.0	0.0	18.24
						27.8	0.0	72.86	0.0	0.0	0.0	20.26
						30.5	0.0	72.83	0.0	0.0	0.0	22.29
						33.3	0.0	72.81	0.0	0.0	0.0	24.31
						36.1	0.0	72.79	0.0	0.0	0.0	26.33
						38.9	0.0	72.77	0.0	0.0	0.0	28.35
						41.7	0.0	72.75	0.0	0.0	0.0	30.37
						44.4	0.0	72.73	0.0	0.0	0.0	32.39
3	5	9.06	0.0	-1.86e-03	-0.27	0.0	0.0	20.53	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	2.8	0.0	20.51	0.0	0.0	0.0	0.57

						5.6	0.0	20.49	0.0	0.0	0.0	1.14
						8.3	0.0	20.48	0.0	0.0	0.0	1.71
						11.1	0.0	20.46	0.0	0.0	0.0	2.28
						13.9	0.0	20.44	0.0	0.0	0.0	2.84
						16.7	0.0	20.43	0.0	0.0	0.0	3.41
						19.4	0.0	20.41	0.0	0.0	0.0	3.98
						22.2	0.0	20.39	0.0	0.0	0.0	4.55
						25.0	0.0	20.38	0.0	0.0	0.0	5.11
						27.8	0.0	20.36	0.0	0.0	0.0	5.68
						30.5	0.0	20.34	0.0	0.0	0.0	6.24
						33.3	0.0	20.33	0.0	0.0	0.0	6.81
						36.1	0.0	20.31	0.0	0.0	0.0	7.37
						38.9	0.0	20.29	0.0	0.0	0.0	7.94
						41.7	0.0	20.28	0.0	0.0	0.0	8.50
						44.4	0.0	20.26	0.0	0.0	0.0	9.06
3	9	20.06	0.0	-4.15e-03	-0.27	0.0	-0.16	45.27	-0.85	0.0	0.0	0.0
		0.0	-0.38	1.55e-05	0.0	2.8	-0.16	45.25	-0.85	0.0	-0.02	1.26
						5.6	-0.16	45.23	-0.85	0.0	-0.05	2.51
						8.3	-0.16	45.22	-0.85	0.0	-0.07	3.77
						11.1	-0.16	45.20	-0.85	0.0	-0.09	5.02
						13.9	-0.16	45.18	-0.85	0.0	-0.12	6.28
						16.7	-0.16	45.17	-0.85	0.0	-0.14	7.53
						19.4	-0.16	45.15	-0.85	0.0	-0.17	8.79
						22.2	-0.16	45.13	-0.85	0.0	-0.19	10.04
						25.0	-0.16	45.12	-0.85	0.0	-0.21	11.30
						27.8	-0.16	45.10	-0.85	0.0	-0.24	12.55
						30.5	-0.16	45.08	-0.85	0.0	-0.26	13.80
						33.3	-0.16	45.07	-0.85	0.0	-0.28	15.05
						36.1	-0.16	45.05	-0.85	0.0	-0.31	16.30
						38.9	-0.16	45.03	-0.85	0.0	-0.33	17.55
						41.7	-0.16	45.02	-0.85	0.0	-0.35	18.81
						44.4	-0.16	45.00	-0.85	0.0	-0.38	20.06
3	12	20.06	0.38	-4.15e-03	-0.27	0.0	0.16	45.27	0.85	0.0	0.0	0.0
		0.0	0.0	-1.55e-05	0.0	2.8	0.16	45.25	0.85	0.0	0.02	1.26
						5.6	0.16	45.23	0.85	0.0	0.05	2.51
						8.3	0.16	45.22	0.85	0.0	0.07	3.77
						11.1	0.16	45.20	0.85	0.0	0.09	5.02
						13.9	0.16	45.18	0.85	0.0	0.12	6.28
						16.7	0.16	45.17	0.85	0.0	0.14	7.53
						19.4	0.16	45.15	0.85	0.0	0.17	8.79
						22.2	0.16	45.13	0.85	0.0	0.19	10.04
						25.0	0.16	45.12	0.85	0.0	0.21	11.30
						27.8	0.16	45.10	0.85	0.0	0.24	12.55
						30.5	0.16	45.08	0.85	0.0	0.26	13.80
						33.3	0.16	45.07	0.85	0.0	0.28	15.05
						36.1	0.16	45.05	0.85	0.0	0.31	16.30
						38.9	0.16	45.03	0.85	0.0	0.33	17.55
						41.7	0.16	45.02	0.85	0.0	0.35	18.81
						44.4	0.16	45.00	0.85	0.0	0.38	20.06
3	26	20.06	0.0	-4.15e-03	-0.27	0.0	-7.60	45.27	-0.02	0.0	0.0	0.0
		0.0	-7.36e-03	5.30e-06	0.0	2.8	-7.60	45.25	-0.02	0.0	-4.60e-04	1.26
						5.6	-7.60	45.23	-0.02	0.0	-9.20e-04	2.51
						8.3	-7.60	45.22	-0.02	0.0	-1.38e-03	3.77
						11.1	-7.60	45.20	-0.02	0.0	-1.84e-03	5.02
						13.9	-7.60	45.18	-0.02	0.0	-2.30e-03	6.28
						16.7	-7.60	45.17	-0.02	0.0	-2.76e-03	7.53
						19.4	-7.60	45.15	-0.02	0.0	-3.22e-03	8.79
						22.2	-7.60	45.13	-0.02	0.0	-3.68e-03	10.04
						25.0	-7.60	45.12	-0.02	0.0	-4.14e-03	11.30
						27.8	-7.60	45.10	-0.02	0.0	-4.60e-03	12.55
						30.5	-7.60	45.08	-0.02	0.0	-5.06e-03	13.80
						33.3	-7.60	45.07	-0.02	0.0	-5.52e-03	15.05
						36.1	-7.60	45.05	-0.02	0.0	-5.98e-03	16.30
						38.9	-7.60	45.03	-0.02	0.0	-6.44e-03	17.55
						41.7	-7.60	45.02	-0.02	0.0	-6.90e-03	18.81
						44.4	-7.60	45.00	-0.02	0.0	-7.36e-03	20.06
3	27	20.06	7.36e-03	-4.15e-03	-0.27	0.0	7.60	45.27	0.02	0.0	0.0	0.0
		0.0	0.0	-5.30e-06	0.0	2.8	7.60	45.25	0.02	0.0	4.60e-04	1.26
						5.6	7.60	45.23	0.02	0.0	9.20e-04	2.51
						8.3	7.60	45.22	0.02	0.0	1.38e-03	3.77
						11.1	7.60	45.20	0.02	0.0	1.84e-03	5.02
						13.9	7.60	45.18	0.02	0.0	2.30e-03	6.28

						16.7	7.60	45.17	0.02	0.0	2.76e-03	7.53
						19.4	7.60	45.15	0.02	0.0	3.22e-03	8.79
						22.2	7.60	45.13	0.02	0.0	3.68e-03	10.04
						25.0	7.60	45.12	0.02	0.0	4.14e-03	11.30
						27.8	7.60	45.10	0.02	0.0	4.60e-03	12.55
						30.5	7.60	45.08	0.02	0.0	5.06e-03	13.80
						33.3	7.60	45.07	0.02	0.0	5.52e-03	15.05
						36.1	7.60	45.05	0.02	0.0	5.98e-03	16.30
						38.9	7.60	45.03	0.02	0.0	6.44e-03	17.55
						41.7	7.60	45.02	0.02	0.0	6.90e-03	18.81
						44.4	7.60	45.00	0.02	0.0	7.36e-03	20.06
3	41	20.06	0.0	-4.15e-03	-0.27	0.0	-0.10	45.27	-0.47	0.0	0.0	0.0
		0.0	-0.21	8.59e-06	0.0	2.8	-0.10	45.25	-0.47	0.0	-0.01	1.26
						5.6	-0.10	45.23	-0.47	0.0	-0.03	2.51
						8.3	-0.10	45.22	-0.47	0.0	-0.04	3.77
						11.1	-0.10	45.20	-0.47	0.0	-0.05	5.02
						13.9	-0.10	45.18	-0.47	0.0	-0.07	6.28
						16.7	-0.10	45.17	-0.47	0.0	-0.08	7.53
						19.4	-0.10	45.15	-0.47	0.0	-0.09	8.79
						22.2	-0.10	45.13	-0.47	0.0	-0.10	10.04
						25.0	-0.10	45.12	-0.47	0.0	-0.12	11.30
						27.8	-0.10	45.10	-0.47	0.0	-0.13	12.55
						30.5	-0.10	45.08	-0.47	0.0	-0.14	13.80
						33.3	-0.10	45.07	-0.47	0.0	-0.16	15.05
						36.1	-0.10	45.05	-0.47	0.0	-0.17	16.30
						38.9	-0.10	45.03	-0.47	0.0	-0.18	17.55
						41.7	-0.10	45.02	-0.47	0.0	-0.20	18.81
						44.4	-0.10	45.00	-0.47	0.0	-0.21	20.06
3	44	20.06	0.21	-4.15e-03	-0.27	0.0	0.10	45.27	0.47	0.0	0.0	0.0
		0.0	0.0	-8.59e-06	0.0	2.8	0.10	45.25	0.47	0.0	0.01	1.26
						5.6	0.10	45.23	0.47	0.0	0.03	2.51
						8.3	0.10	45.22	0.47	0.0	0.04	3.77
						11.1	0.10	45.20	0.47	0.0	0.05	5.02
						13.9	0.10	45.18	0.47	0.0	0.07	6.28
						16.7	0.10	45.17	0.47	0.0	0.08	7.53
						19.4	0.10	45.15	0.47	0.0	0.09	8.79
						22.2	0.10	45.13	0.47	0.0	0.10	10.04
						25.0	0.10	45.12	0.47	0.0	0.12	11.30
						27.8	0.10	45.10	0.47	0.0	0.13	12.55
						30.5	0.10	45.08	0.47	0.0	0.14	13.80
						33.3	0.10	45.07	0.47	0.0	0.16	15.05
						36.1	0.10	45.05	0.47	0.0	0.17	16.30
						38.9	0.10	45.03	0.47	0.0	0.18	17.55
						41.7	0.10	45.02	0.47	0.0	0.20	18.81
						44.4	0.10	45.00	0.47	0.0	0.21	20.06
3	58	20.06	0.0	-4.15e-03	-0.27	0.0	-4.18	45.27	-0.01	0.0	0.0	0.0
		0.0	-4.55e-03	2.94e-06	0.0	2.8	-4.18	45.25	-0.01	0.0	-2.85e-04	1.26
						5.6	-4.18	45.23	-0.01	0.0	-5.69e-04	2.51
						8.3	-4.18	45.22	-0.01	0.0	-8.54e-04	3.77
						11.1	-4.18	45.20	-0.01	0.0	-1.14e-03	5.02
						13.9	-4.18	45.18	-0.01	0.0	-1.42e-03	6.28
						16.7	-4.18	45.17	-0.01	0.0	-1.71e-03	7.53
						19.4	-4.18	45.15	-0.01	0.0	-1.99e-03	8.79
						22.2	-4.18	45.13	-0.01	0.0	-2.28e-03	10.04
						25.0	-4.18	45.12	-0.01	0.0	-2.56e-03	11.30
						27.8	-4.18	45.10	-0.01	0.0	-2.85e-03	12.55
						30.5	-4.18	45.08	-0.01	0.0	-3.13e-03	13.80
						33.3	-4.18	45.07	-0.01	0.0	-3.41e-03	15.05
						36.1	-4.18	45.05	-0.01	0.0	-3.70e-03	16.30
						38.9	-4.18	45.03	-0.01	0.0	-3.98e-03	17.55
						41.7	-4.18	45.02	-0.01	0.0	-4.27e-03	18.81
						44.4	-4.18	45.00	-0.01	0.0	-4.55e-03	20.06
3	59	20.06	4.55e-03	-4.15e-03	-0.27	0.0	4.18	45.27	0.01	0.0	0.0	0.0
		0.0	0.0	-2.94e-06	0.0	2.8	4.18	45.25	0.01	0.0	2.85e-04	1.26
						5.6	4.18	45.23	0.01	0.0	5.69e-04	2.51
						8.3	4.18	45.22	0.01	0.0	8.54e-04	3.77
						11.1	4.18	45.20	0.01	0.0	1.14e-03	5.02
						13.9	4.18	45.18	0.01	0.0	1.42e-03	6.28
						16.7	4.18	45.17	0.01	0.0	1.71e-03	7.53
						19.4	4.18	45.15	0.01	0.0	1.99e-03	8.79
						22.2	4.18	45.13	0.01	0.0	2.28e-03	10.04
						25.0	4.18	45.12	0.01	0.0	2.56e-03	11.30

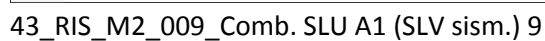
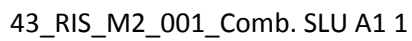
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						33.3	4.18	45.07	0.01	0.0	3.41e-03	15.05
						36.1	4.18	45.05	0.01	0.0	3.70e-03	16.30
						38.9	4.18	45.03	0.01	0.0	3.98e-03	17.55
						41.7	4.18	45.02	0.01	0.0	4.27e-03	18.81
						44.4	4.18	45.00	0.01	0.0	4.55e-03	20.06
4	1	0.05	0.0	-3.54e-04	-0.05	0.0	0.0	-0.24	0.0	-0.03	0.0	0.05
		2.56e-03	0.0	0.0	0.0	1.1	0.0	-0.24	0.0	-0.03	0.0	0.04
						2.1	0.0	-0.25	0.0	-0.03	0.0	0.04
						3.2	0.0	-0.25	0.0	-0.03	0.0	0.04
						4.2	0.0	-0.25	0.0	-0.03	0.0	0.04
						5.3	0.0	-0.26	0.0	-0.03	0.0	0.03
						6.3	0.0	-0.26	0.0	-0.03	0.0	0.03
						7.4	0.0	-0.26	0.0	-0.03	0.0	0.03
						8.4	0.0	-0.27	0.0	-0.03	0.0	0.03
						9.5	0.0	-0.27	0.0	-0.03	0.0	0.02
						10.5	0.0	-0.27	0.0	-0.03	0.0	0.02
						11.6	0.0	-0.28	0.0	-0.03	0.0	0.02
						12.7	0.0	-0.28	0.0	-0.03	0.0	0.01
						13.7	0.0	-0.28	0.0	-0.03	0.0	0.01
						14.8	0.0	-0.29	0.0	-0.03	0.0	8.65e-03
						15.8	0.0	-0.29	0.0	-0.03	0.0	5.62e-03
						16.9	0.0	-0.29	0.0	-0.03	0.0	2.56e-03
4	3	0.07	0.0	-9.83e-04	-0.05	0.0	0.0	-0.33	0.0	-0.07	0.0	0.07
		7.04e-03	0.0	0.0	0.0	1.1	0.0	-0.33	0.0	-0.07	0.0	0.06
						2.1	0.0	-0.33	0.0	-0.07	0.0	0.06
						3.2	0.0	-0.34	0.0	-0.07	0.0	0.06
						4.2	0.0	-0.34	0.0	-0.07	0.0	0.05
						5.3	0.0	-0.34	0.0	-0.07	0.0	0.05
						6.3	0.0	-0.35	0.0	-0.07	0.0	0.05
						7.4	0.0	-0.35	0.0	-0.07	0.0	0.04
						8.4	0.0	-0.35	0.0	-0.07	0.0	0.04
						9.5	0.0	-0.36	0.0	-0.07	0.0	0.03
						10.5	0.0	-0.36	0.0	-0.07	0.0	0.03
						11.6	0.0	-0.36	0.0	-0.07	0.0	0.03
						12.7	0.0	-0.37	0.0	-0.07	0.0	0.02
						13.7	0.0	-0.37	0.0	-0.07	0.0	0.01
						14.8	0.0	-0.37	0.0	-0.07	0.0	0.01
						15.8	0.0	-0.38	0.0	-0.07	0.0	0.01
						16.9	0.0	-0.38	0.0	-0.07	0.0	7.04e-03
4	5	0.04	0.0	-2.72e-04	-0.04	0.0	0.0	-0.18	0.0	-0.02	0.0	0.04
		1.97e-03	0.0	0.0	0.0	1.1	0.0	-0.19	0.0	-0.02	0.0	0.03
						2.1	0.0	-0.19	0.0	-0.02	0.0	0.03
						3.2	0.0	-0.19	0.0	-0.02	0.0	0.03
						4.2	0.0	-0.19	0.0	-0.02	0.0	0.03
						5.3	0.0	-0.20	0.0	-0.02	0.0	0.03
						6.3	0.0	-0.20	0.0	-0.02	0.0	0.02
						7.4	0.0	-0.20	0.0	-0.02	0.0	0.02
						8.4	0.0	-0.20	0.0	-0.02	0.0	0.02
						9.5	0.0	-0.21	0.0	-0.02	0.0	0.02
						10.5	0.0	-0.21	0.0	-0.02	0.0	0.02
						11.6	0.0	-0.21	0.0	-0.02	0.0	0.01
						12.7	0.0	-0.21	0.0	-0.02	0.0	0.01
						13.7	0.0	-0.22	0.0	-0.02	0.0	8.96e-03
						14.8	0.0	-0.22	0.0	-0.02	0.0	6.66e-03
						15.8	0.0	-0.22	0.0	-0.02	0.0	4.33e-03
						16.9	0.0	-0.22	0.0	-0.02	0.0	1.97e-03
4	9	0.05	0.29	-6.08e-04	-0.04	0.0	9.03	-0.23	2.34	-0.05	-0.11	0.05
		4.36e-03	-0.11	1.61e-06	0.0	1.1	9.03	-0.23	2.34	-0.05	-0.08	0.04
						2.1	9.03	-0.24	2.34	-0.05	-0.06	0.04
						3.2	9.03	-0.24	2.34	-0.05	-0.03	0.04
						4.2	9.03	-0.24	2.34	-0.05	-7.64e-03	0.04
						5.3	9.03	-0.24	2.34	-0.05	0.02	0.03
						6.3	9.03	-0.25	2.34	-0.05	0.04	0.03
						7.4	9.03	-0.25	2.34	-0.05	0.07	0.03
						8.4	9.03	-0.25	2.34	-0.05	0.09	0.03
						9.5	9.03	-0.25	2.34	-0.05	0.12	0.02
						10.5	9.03	-0.26	2.34	-0.05	0.14	0.02
						11.6	9.03	-0.26	2.34	-0.05	0.16	0.02
						12.7	9.03	-0.26	2.34	-0.05	0.19	0.02
						13.7	9.03	-0.26	2.34	-0.05	0.21	0.01

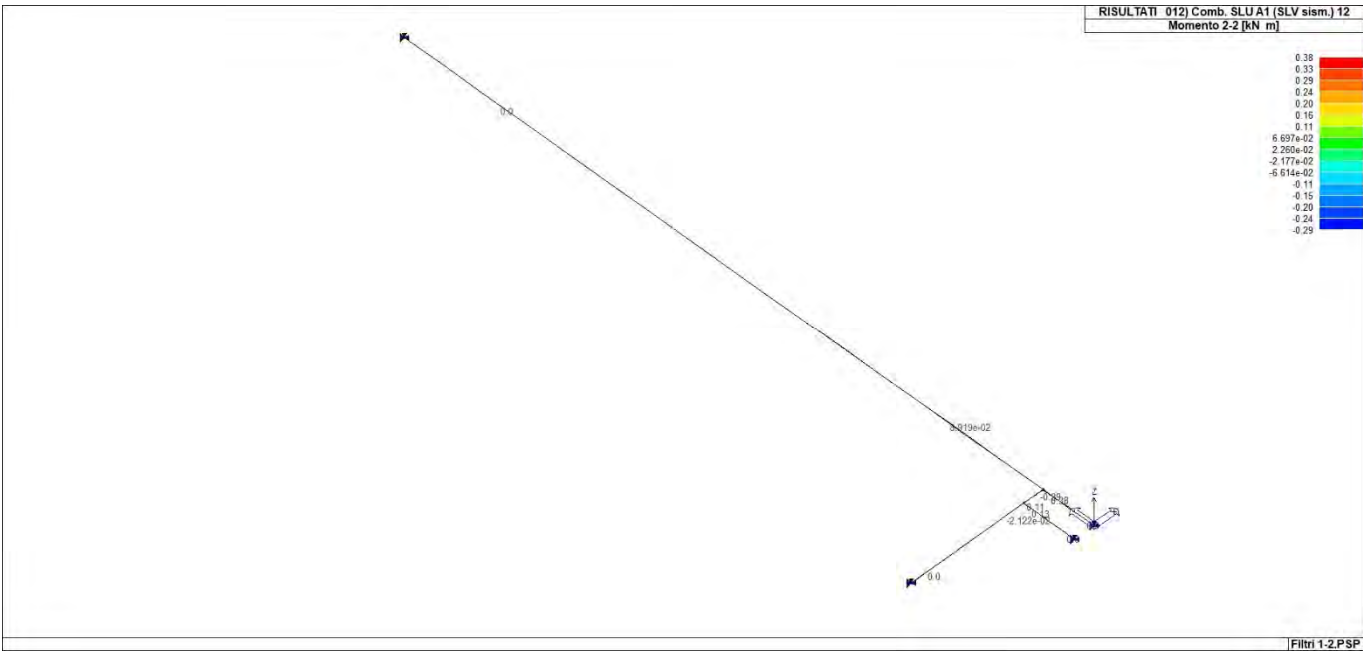
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						15.8	9.03	-0.27	2.34	-0.05	0.26	7.21e-03
						16.9	9.03	-0.27	2.34	-0.05	0.29	4.36e-03
						0.0	9.26	-0.23	1.77	-0.05	-0.07	0.05
						1.1	9.26	-0.23	1.77	-0.05	-0.05	0.04
						2.1	9.26	-0.24	1.77	-0.05	-0.04	0.04
						3.2	9.26	-0.24	1.77	-0.05	-0.02	0.04
						4.2	9.26	-0.24	1.77	-0.05	2.13e-03	0.04
						5.3	9.26	-0.24	1.77	-0.05	0.02	0.03
						6.3	9.26	-0.25	1.77	-0.05	0.04	0.03
						7.4	9.26	-0.25	1.77	-0.05	0.06	0.03
						8.4	9.26	-0.25	1.77	-0.05	0.08	0.03
						9.5	9.26	-0.25	1.77	-0.05	0.10	0.02
						10.5	9.26	-0.26	1.77	-0.05	0.11	0.02
						11.6	9.26	-0.26	1.77	-0.05	0.13	0.02
						12.7	9.26	-0.26	1.77	-0.05	0.15	0.02
						13.7	9.26	-0.26	1.77	-0.05	0.17	0.01
						14.8	9.26	-0.27	1.77	-0.05	0.19	0.01
						15.8	9.26	-0.27	1.77	-0.05	0.21	7.21e-03
4	11	0.05 4.36e-03	0.07 -0.23	-6.08e-04 -2.36e-06	-0.04 0.0	16.9	9.26	-0.27	1.77	-0.05	0.23	4.36e-03
						0.0	-9.26	-0.23	-1.77	-0.05	0.07	0.05
						1.1	-9.26	-0.23	-1.77	-0.05	0.05	0.04
						2.1	-9.26	-0.24	-1.77	-0.05	0.04	0.04
						3.2	-9.26	-0.24	-1.77	-0.05	0.02	0.04
						4.2	-9.26	-0.24	-1.77	-0.05	-2.13e-03	0.04
						5.3	-9.26	-0.24	-1.77	-0.05	-0.02	0.03
						6.3	-9.26	-0.25	-1.77	-0.05	-0.04	0.03
						7.4	-9.26	-0.25	-1.77	-0.05	-0.06	0.03
						8.4	-9.26	-0.25	-1.77	-0.05	-0.08	0.03
						9.5	-9.26	-0.25	-1.77	-0.05	-0.10	0.02
						10.5	-9.26	-0.26	-1.77	-0.05	-0.11	0.02
						11.6	-9.26	-0.26	-1.77	-0.05	-0.13	0.02
						12.7	-9.26	-0.26	-1.77	-0.05	-0.15	0.02
						13.7	-9.26	-0.26	-1.77	-0.05	-0.17	0.01
						14.8	-9.26	-0.27	-1.77	-0.05	-0.19	0.01
						15.8	-9.26	-0.27	-1.77	-0.05	-0.21	7.21e-03
						16.9	-9.26	-0.27	-1.77	-0.05	-0.23	4.36e-03
4	12	0.05 4.36e-03	0.11 -0.29	-6.08e-04 -1.61e-06	-0.04 0.0	0.0	-9.03	-0.23	-2.34	-0.05	0.11	0.05
						1.1	-9.03	-0.23	-2.34	-0.05	0.08	0.04
						2.1	-9.03	-0.24	-2.34	-0.05	0.06	0.04
						3.2	-9.03	-0.24	-2.34	-0.05	0.03	0.04
						4.2	-9.03	-0.24	-2.34	-0.05	7.64e-03	0.04
						5.3	-9.03	-0.24	-2.34	-0.05	-0.02	0.03
						6.3	-9.03	-0.25	-2.34	-0.05	-0.04	0.03
						7.4	-9.03	-0.25	-2.34	-0.05	-0.07	0.03
						8.4	-9.03	-0.25	-2.34	-0.05	-0.09	0.03
						9.5	-9.03	-0.25	-2.34	-0.05	-0.12	0.02
						10.5	-9.03	-0.26	-2.34	-0.05	-0.14	0.02
						11.6	-9.03	-0.26	-2.34	-0.05	-0.16	0.02
						12.7	-9.03	-0.26	-2.34	-0.05	-0.19	0.02
						13.7	-9.03	-0.26	-2.34	-0.05	-0.21	0.01
						14.8	-9.03	-0.27	-2.34	-0.05	-0.24	0.01
						15.8	-9.03	-0.27	-2.34	-0.05	-0.26	7.21e-03
						16.9	-9.03	-0.27	-2.34	-0.05	-0.29	4.36e-03
4	41	0.05 4.36e-03	0.16 -0.06	-6.08e-04 0.0	-0.04 0.0	0.0	5.02	-0.23	1.30	-0.05	-0.06	0.05
						1.1	5.02	-0.23	1.30	-0.05	-0.05	0.04
						2.1	5.02	-0.24	1.30	-0.05	-0.03	0.04
						3.2	5.02	-0.24	1.30	-0.05	-0.02	0.04
						4.2	5.02	-0.24	1.30	-0.05	-4.22e-03	0.04
						5.3	5.02	-0.24	1.30	-0.05	9.44e-03	0.03
						6.3	5.02	-0.25	1.30	-0.05	0.02	0.03
						7.4	5.02	-0.25	1.30	-0.05	0.04	0.03
						8.4	5.02	-0.25	1.30	-0.05	0.05	0.03
						9.5	5.02	-0.25	1.30	-0.05	0.06	0.02
						10.5	5.02	-0.26	1.30	-0.05	0.08	0.02
						11.6	5.02	-0.26	1.30	-0.05	0.09	0.02
						12.7	5.02	-0.26	1.30	-0.05	0.11	0.02
						13.7	5.02	-0.26	1.30	-0.05	0.12	0.01
						14.8	5.02	-0.27	1.30	-0.05	0.13	0.01
						15.8	5.02	-0.27	1.30	-0.05	0.15	7.21e-03
						16.9	5.02	-0.27	1.30	-0.05	0.16	4.36e-03
4	42	0.05	0.13	-6.08e-04	-0.04	0.0	5.14	-0.23	0.98	-0.05	-0.04	0.05

		4.36e-03	-0.04	1.31e-06	0.0	1.1	5.14	-0.23	0.98	-0.05	-0.03	0.04
						2.1	5.14	-0.24	0.98	-0.05	-0.02	0.04
						3.2	5.14	-0.24	0.98	-0.05	-9.20e-03	0.04
						4.2	5.14	-0.24	0.98	-0.05	1.16e-03	0.04
						5.3	5.14	-0.24	0.98	-0.05	0.01	0.03
						6.3	5.14	-0.25	0.98	-0.05	0.02	0.03
						7.4	5.14	-0.25	0.98	-0.05	0.03	0.03
						8.4	5.14	-0.25	0.98	-0.05	0.04	0.03
						9.5	5.14	-0.25	0.98	-0.05	0.05	0.02
						10.5	5.14	-0.26	0.98	-0.05	0.06	0.02
						11.6	5.14	-0.26	0.98	-0.05	0.07	0.02
						12.7	5.14	-0.26	0.98	-0.05	0.08	0.02
						13.7	5.14	-0.26	0.98	-0.05	0.09	0.01
						14.8	5.14	-0.27	0.98	-0.05	0.10	0.01
						15.8	5.14	-0.27	0.98	-0.05	0.12	7.21e-03
						16.9	5.14	-0.27	0.98	-0.05	0.13	4.36e-03
4	43	0.05	0.04	-6.08e-04	-0.04	0.0	-5.14	-0.23	-0.98	-0.05	0.04	0.05
		4.36e-03	-0.13	-1.31e-06	0.0	1.1	-5.14	-0.23	-0.98	-0.05	0.03	0.04
						2.1	-5.14	-0.24	-0.98	-0.05	0.02	0.04
						3.2	-5.14	-0.24	-0.98	-0.05	9.20e-03	0.04
						4.2	-5.14	-0.24	-0.98	-0.05	-1.16e-03	0.04
						5.3	-5.14	-0.24	-0.98	-0.05	-0.01	0.03
						6.3	-5.14	-0.25	-0.98	-0.05	-0.02	0.03
						7.4	-5.14	-0.25	-0.98	-0.05	-0.03	0.03
						8.4	-5.14	-0.25	-0.98	-0.05	-0.04	0.03
						9.5	-5.14	-0.25	-0.98	-0.05	-0.05	0.02
						10.5	-5.14	-0.26	-0.98	-0.05	-0.06	0.02
						11.6	-5.14	-0.26	-0.98	-0.05	-0.07	0.02
						12.7	-5.14	-0.26	-0.98	-0.05	-0.08	0.02
						13.7	-5.14	-0.26	-0.98	-0.05	-0.09	0.01
						14.8	-5.14	-0.27	-0.98	-0.05	-0.10	0.01
						15.8	-5.14	-0.27	-0.98	-0.05	-0.12	7.21e-03
						16.9	-5.14	-0.27	-0.98	-0.05	-0.13	4.36e-03
4	44	0.05	0.06	-6.08e-04	-0.04	0.0	-5.02	-0.23	-1.30	-0.05	0.06	0.05
		4.36e-03	-0.16	0.0	0.0	1.1	-5.02	-0.23	-1.30	-0.05	0.05	0.04
						2.1	-5.02	-0.24	-1.30	-0.05	0.03	0.04
						3.2	-5.02	-0.24	-1.30	-0.05	0.02	0.04
						4.2	-5.02	-0.24	-1.30	-0.05	4.22e-03	0.04
						5.3	-5.02	-0.24	-1.30	-0.05	-9.44e-03	0.03
						6.3	-5.02	-0.25	-1.30	-0.05	-0.02	0.03
						7.4	-5.02	-0.25	-1.30	-0.05	-0.04	0.03
						8.4	-5.02	-0.25	-1.30	-0.05	-0.05	0.03
						9.5	-5.02	-0.25	-1.30	-0.05	-0.06	0.02
						10.5	-5.02	-0.26	-1.30	-0.05	-0.08	0.02
						11.6	-5.02	-0.26	-1.30	-0.05	-0.09	0.02
						12.7	-5.02	-0.26	-1.30	-0.05	-0.11	0.02
						13.7	-5.02	-0.26	-1.30	-0.05	-0.12	0.01
						14.8	-5.02	-0.27	-1.30	-0.05	-0.13	0.01
						15.8	-5.02	-0.27	-1.30	-0.05	-0.15	7.21e-03
						16.9	-5.02	-0.27	-1.30	-0.05	-0.16	4.36e-03
5	1	0.07	0.0	-2.07e-03	-0.31	0.0	0.0	0.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	6.1	0.0	0.18	0.0	0.0	0.0	0.01
						12.3	0.0	0.17	0.0	0.0	0.0	0.02
						18.4	0.0	0.15	0.0	0.0	0.0	0.03
						24.5	0.0	0.13	0.0	0.0	0.0	0.04
						30.6	0.0	0.11	0.0	0.0	0.0	0.05
						36.8	0.0	0.09	0.0	0.0	0.0	0.05
						42.9	0.0	0.07	0.0	0.0	0.0	0.06
						49.0	0.0	0.05	0.0	0.0	0.0	0.06
						55.1	0.0	0.03	0.0	0.0	0.0	0.06
						61.3	0.0	9.30e-03	0.0	0.0	0.0	0.07
						67.4	0.0	-0.01	0.0	0.0	0.0	0.07
						73.5	0.0	-0.03	0.0	0.0	0.0	0.06
						79.6	0.0	-0.05	0.0	0.0	0.0	0.06
						85.8	0.0	-0.07	0.0	0.0	0.0	0.06
						91.9	0.0	-0.09	0.0	0.0	0.0	0.05
						98.0	0.0	-0.11	0.0	0.0	0.0	0.05
5	3	0.08	0.0	-5.72e-03	-0.31	0.0	0.0	0.22	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	6.1	0.0	0.20	0.0	0.0	0.0	0.01
						12.3	0.0	0.18	0.0	0.0	0.0	0.03
						18.4	0.0	0.17	0.0	0.0	0.0	0.04
						24.5	0.0	0.15	0.0	0.0	0.0	0.05

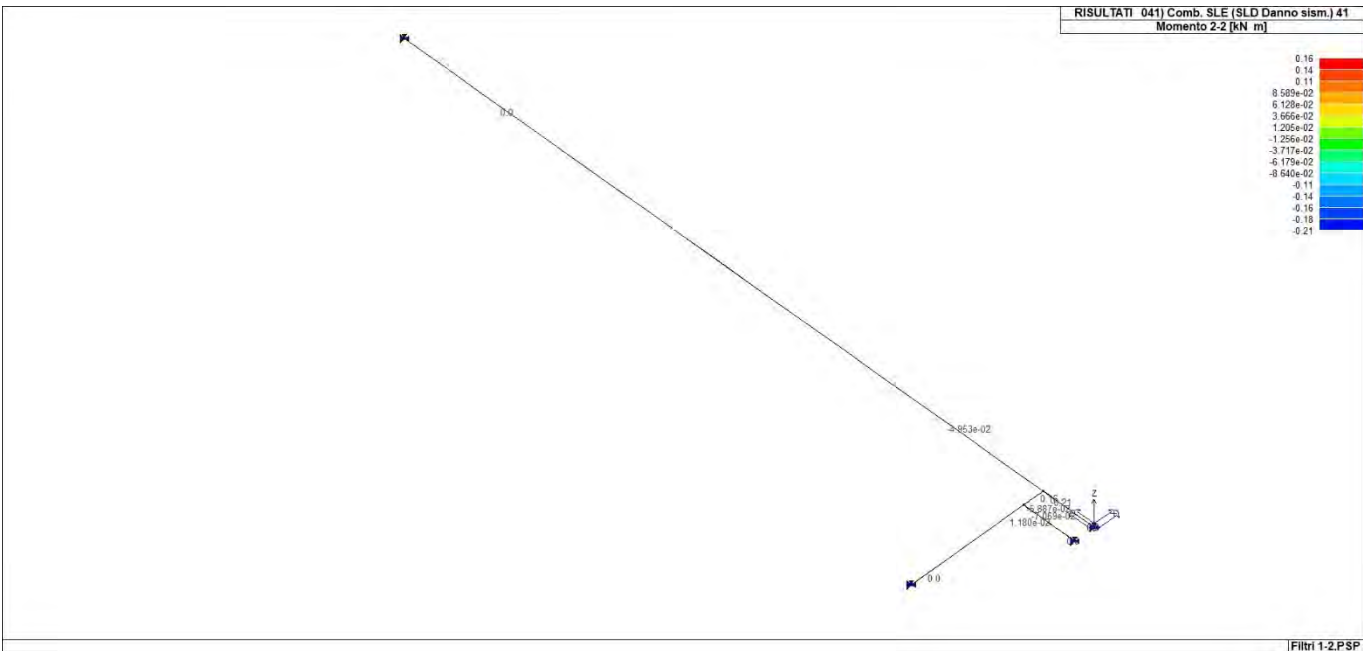
						30.6	0.0	0.13	0.0	0.0	0.0	0.05
						36.8	0.0	0.11	0.0	0.0	0.0	0.06
						42.9	0.0	0.09	0.0	0.0	0.0	0.07
						49.0	0.0	0.07	0.0	0.0	0.0	0.07
						55.1	0.0	0.05	0.0	0.0	0.0	0.08
						61.3	0.0	0.03	0.0	0.0	0.0	0.08
						67.4	0.0	9.40e-03	0.0	0.0	0.0	0.08
						73.5	0.0	-0.01	0.0	0.0	0.0	0.08
						79.6	0.0	-0.03	0.0	0.0	0.0	0.08
						85.8	0.0	-0.05	0.0	0.0	0.0	0.07
						91.9	0.0	-0.07	0.0	0.0	0.0	0.07
						98.0	0.0	-0.09	0.0	0.0	0.0	0.07
5	9	0.06	0.02	-3.54e-03	-0.24	0.0	8.85	0.17	0.02	0.0	0.0	0.0
		0.0	0.0	-2.58e-06	0.0	6.1	8.85	0.15	0.02	0.0	1.33e-03	9.81e-03
						12.3	8.85	0.14	0.02	0.0	2.65e-03	0.02
						18.4	8.85	0.12	0.02	0.0	3.98e-03	0.03
						24.5	8.85	0.11	0.02	0.0	5.31e-03	0.03
						30.6	8.85	0.09	0.02	0.0	6.63e-03	0.04
						36.8	8.85	0.08	0.02	0.0	7.96e-03	0.05
						42.9	8.85	0.06	0.02	0.0	9.28e-03	0.05
						49.0	8.85	0.05	0.02	0.0	0.01	0.05
						55.1	8.85	0.03	0.02	0.0	0.01	0.06
						61.3	8.85	0.02	0.02	0.0	0.01	0.06
						67.4	8.85	2.61e-03	0.02	0.0	0.01	0.06
						73.5	8.85	-0.01	0.02	0.0	0.02	0.06
						79.6	8.85	-0.03	0.02	0.0	0.02	0.06
						85.8	8.85	-0.04	0.02	0.0	0.02	0.05
						91.9	8.85	-0.06	0.02	0.0	0.02	0.05
						98.0	8.85	-0.07	0.02	0.0	0.02	0.05
5	10	0.06	0.03	-3.54e-03	-0.24	0.0	9.06	0.17	0.03	0.0	0.0	0.0
		0.0	0.0	-3.04e-06	0.0	6.1	9.06	0.15	0.03	0.0	1.94e-03	9.81e-03
						12.3	9.06	0.14	0.03	0.0	3.87e-03	0.02
						18.4	9.06	0.12	0.03	0.0	5.81e-03	0.03
						24.5	9.06	0.11	0.03	0.0	7.74e-03	0.03
						30.6	9.06	0.09	0.03	0.0	9.68e-03	0.04
						36.8	9.06	0.08	0.03	0.0	0.01	0.05
						42.9	9.06	0.06	0.03	0.0	0.01	0.05
						49.0	9.06	0.05	0.03	0.0	0.02	0.05
						55.1	9.06	0.03	0.03	0.0	0.02	0.06
						61.3	9.06	0.02	0.03	0.0	0.02	0.06
						67.4	9.06	2.61e-03	0.03	0.0	0.02	0.06
						73.5	9.06	-0.01	0.03	0.0	0.02	0.06
						79.6	9.06	-0.03	0.03	0.0	0.03	0.06
						85.8	9.06	-0.04	0.03	0.0	0.03	0.05
						91.9	9.06	-0.06	0.03	0.0	0.03	0.05
						98.0	9.06	-0.07	0.03	0.0	0.03	0.05
5	11	0.06	0.0	-3.54e-03	-0.24	0.0	-9.06	0.17	-0.03	0.0	0.0	0.0
		0.0	-0.03	3.04e-06	0.0	6.1	-9.06	0.15	-0.03	0.0	-1.94e-03	9.81e-03
						12.3	-9.06	0.14	-0.03	0.0	-3.87e-03	0.02
						18.4	-9.06	0.12	-0.03	0.0	-5.81e-03	0.03
						24.5	-9.06	0.11	-0.03	0.0	-7.74e-03	0.03
						30.6	-9.06	0.09	-0.03	0.0	-9.68e-03	0.04
						36.8	-9.06	0.08	-0.03	0.0	-0.01	0.05
						42.9	-9.06	0.06	-0.03	0.0	-0.01	0.05
						49.0	-9.06	0.05	-0.03	0.0	-0.02	0.05
						55.1	-9.06	0.03	-0.03	0.0	-0.02	0.06
						61.3	-9.06	0.02	-0.03	0.0	-0.02	0.06
						67.4	-9.06	2.61e-03	-0.03	0.0	-0.02	0.06
						73.5	-9.06	-0.01	-0.03	0.0	-0.02	0.06
						79.6	-9.06	-0.03	-0.03	0.0	-0.03	0.06
						85.8	-9.06	-0.04	-0.03	0.0	-0.03	0.05
						91.9	-9.06	-0.06	-0.03	0.0	-0.03	0.05
						98.0	-9.06	-0.07	-0.03	0.0	-0.03	0.05
5	41	0.06	0.01	-3.54e-03	-0.24	0.0	4.91	0.17	0.01	0.0	0.0	0.0
		0.0	0.0	-1.43e-06	0.0	6.1	4.91	0.15	0.01	0.0	7.38e-04	9.81e-03
						12.3	4.91	0.14	0.01	0.0	1.48e-03	0.02
						18.4	4.91	0.12	0.01	0.0	2.21e-03	0.03
						24.5	4.91	0.11	0.01	0.0	2.95e-03	0.03
						30.6	4.91	0.09	0.01	0.0	3.69e-03	0.04
						36.8	4.91	0.08	0.01	0.0	4.43e-03	0.05
						42.9	4.91	0.06	0.01	0.0	5.16e-03	0.05
						49.0	4.91	0.05	0.01	0.0	5.90e-03	0.05

						55.1	4.91	0.03	0.01	0.0	6.64e-03	0.06
						61.3	4.91	0.02	0.01	0.0	7.38e-03	0.06
						67.4	4.91	2.61e-03	0.01	0.0	8.12e-03	0.06
						73.5	4.91	-0.01	0.01	0.0	8.85e-03	0.06
						79.6	4.91	-0.03	0.01	0.0	9.59e-03	0.06
						85.8	4.91	-0.04	0.01	0.0	0.01	0.05
						91.9	4.91	-0.06	0.01	0.0	0.01	0.05
5	42	0.06	0.02	-3.54e-03	-0.24	98.0	4.91	-0.07	0.01	0.0	0.01	0.05
		0.0	0.0	-1.69e-06	0.0	0.0	5.03	0.17	0.02	0.0	0.0	0.0
						6.1	5.03	0.15	0.02	0.0	1.07e-03	9.81e-03
						12.3	5.03	0.14	0.02	0.0	2.15e-03	0.02
						18.4	5.03	0.12	0.02	0.0	3.22e-03	0.03
						24.5	5.03	0.11	0.02	0.0	4.29e-03	0.03
						30.6	5.03	0.09	0.02	0.0	5.37e-03	0.04
						36.8	5.03	0.08	0.02	0.0	6.44e-03	0.05
						42.9	5.03	0.06	0.02	0.0	7.51e-03	0.05
						49.0	5.03	0.05	0.02	0.0	8.59e-03	0.05
						55.1	5.03	0.03	0.02	0.0	9.66e-03	0.06
						61.3	5.03	0.02	0.02	0.0	0.01	0.06
						67.4	5.03	2.61e-03	0.02	0.0	0.01	0.06
						73.5	5.03	-0.01	0.02	0.0	0.01	0.06
						79.6	5.03	-0.03	0.02	0.0	0.01	0.06
						85.8	5.03	-0.04	0.02	0.0	0.02	0.05
						91.9	5.03	-0.06	0.02	0.0	0.02	0.05
5	43	0.06	0.0	-3.54e-03	-0.24	98.0	5.03	-0.07	0.02	0.0	0.02	0.05
		0.0	-0.02	1.69e-06	0.0	0.0	-5.03	0.17	-0.02	0.0	0.0	0.0
						6.1	-5.03	0.15	-0.02	0.0	-1.07e-03	9.81e-03
						12.3	-5.03	0.14	-0.02	0.0	-2.15e-03	0.02
						18.4	-5.03	0.12	-0.02	0.0	-3.22e-03	0.03
						24.5	-5.03	0.11	-0.02	0.0	-4.29e-03	0.03
						30.6	-5.03	0.09	-0.02	0.0	-5.37e-03	0.04
						36.8	-5.03	0.08	-0.02	0.0	-6.44e-03	0.05
						42.9	-5.03	0.06	-0.02	0.0	-7.51e-03	0.05
						49.0	-5.03	0.05	-0.02	0.0	-8.59e-03	0.05
						55.1	-5.03	0.03	-0.02	0.0	-9.66e-03	0.06
						61.3	-5.03	0.02	-0.02	0.0	-0.01	0.06
						67.4	-5.03	2.61e-03	-0.02	0.0	-0.01	0.06
						73.5	-5.03	-0.01	-0.02	0.0	-0.01	0.06
						79.6	-5.03	-0.03	-0.02	0.0	-0.01	0.06
						85.8	-5.03	-0.04	-0.02	0.0	-0.02	0.05
						91.9	-5.03	-0.06	-0.02	0.0	-0.02	0.05
						98.0	-5.03	-0.07	-0.02	0.0	-0.02	0.05

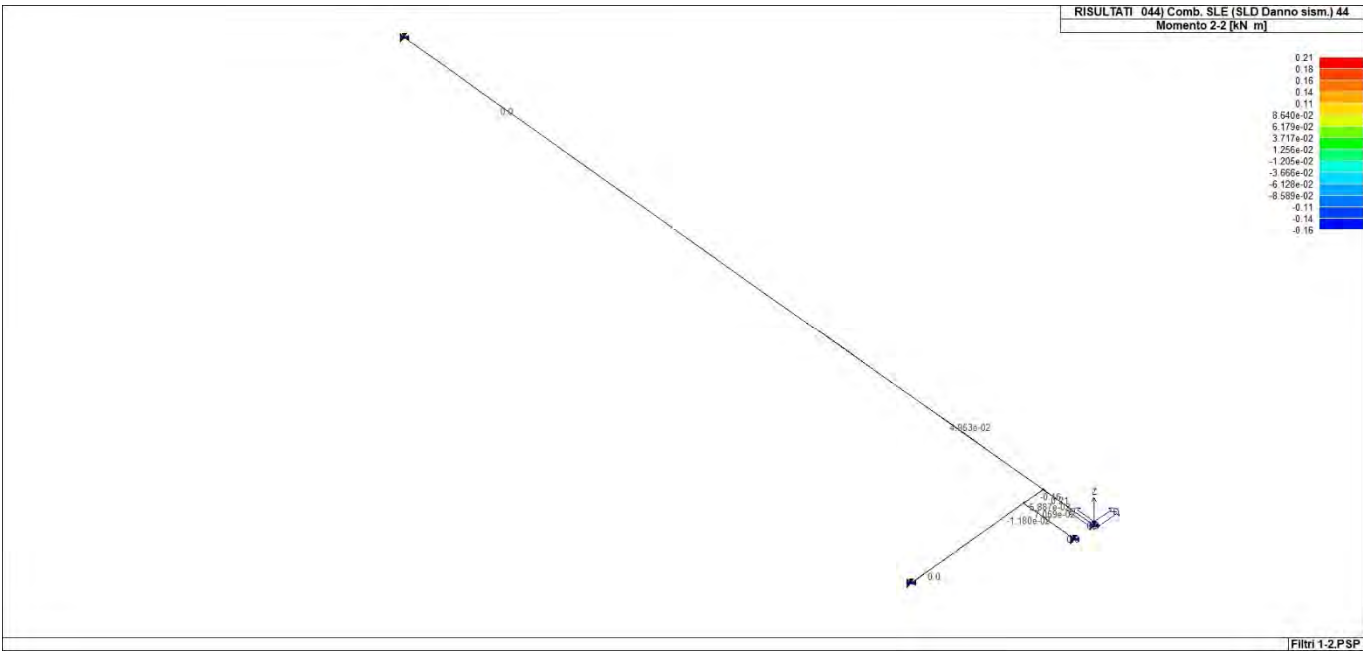




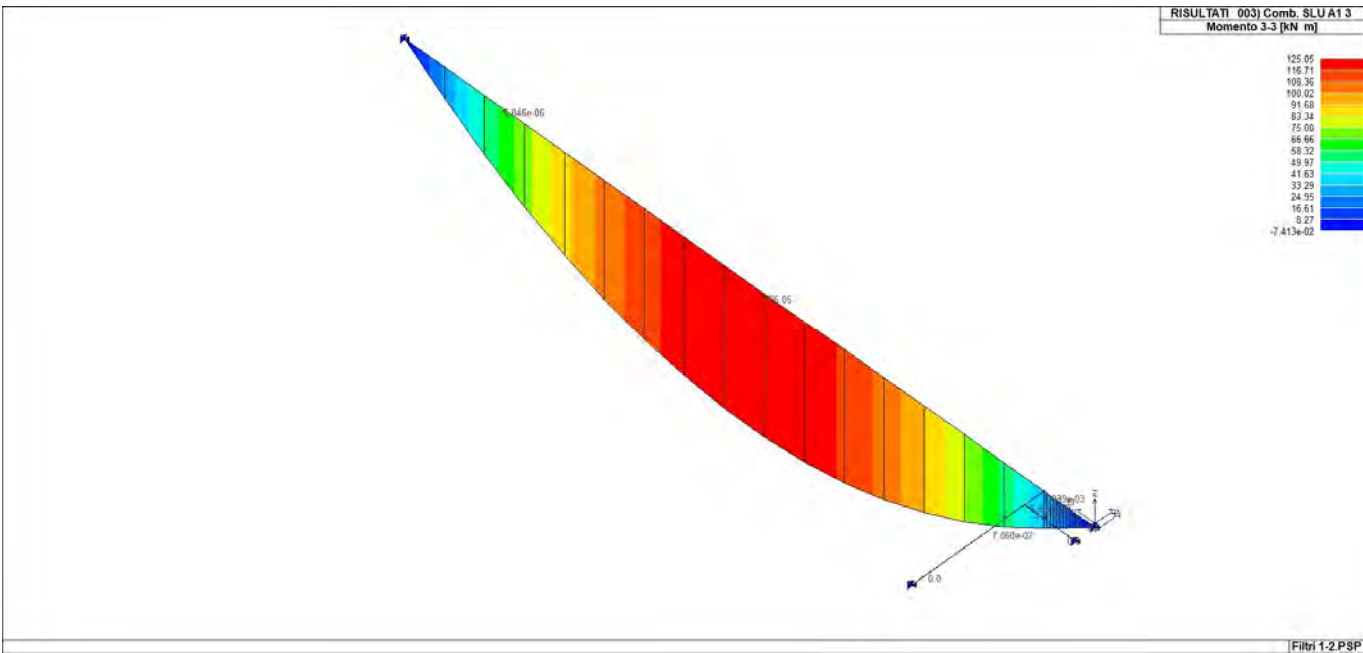
43_RIS_M2_012_Comb. SLU A1 (SLV sism.) 12



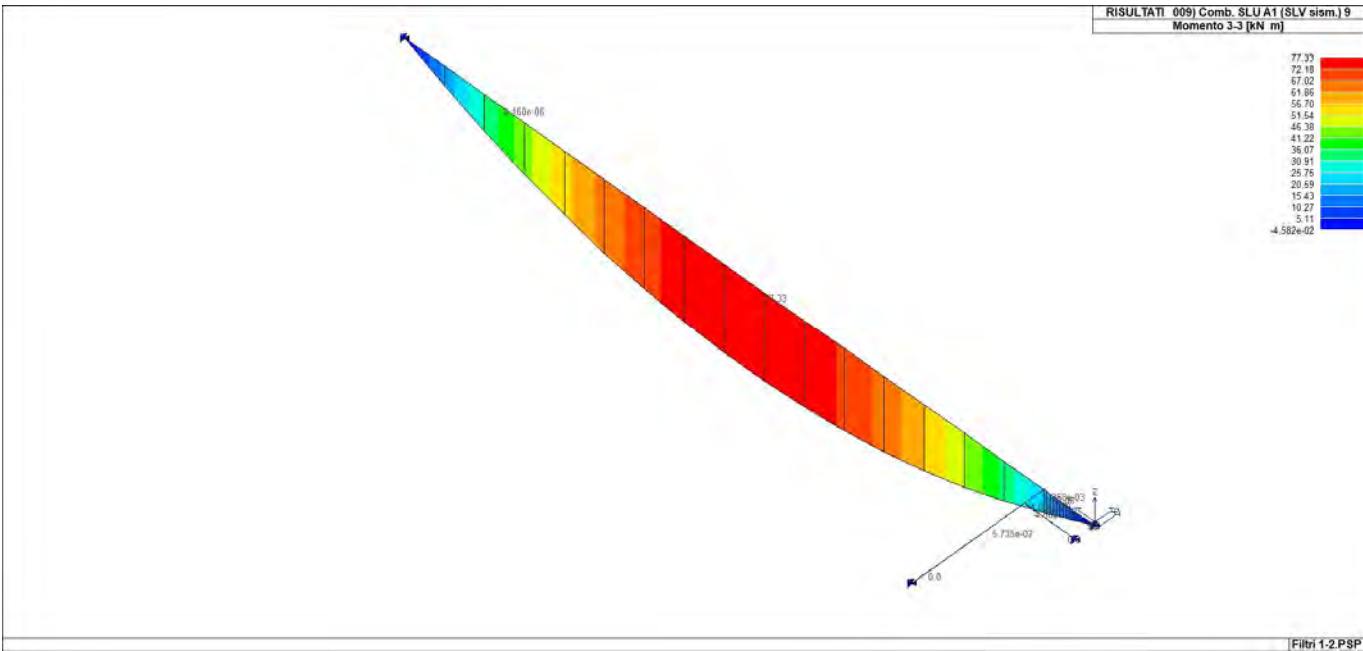
43_RIS_M2_041_Comb. SLE (SLD Danno sism.) 41



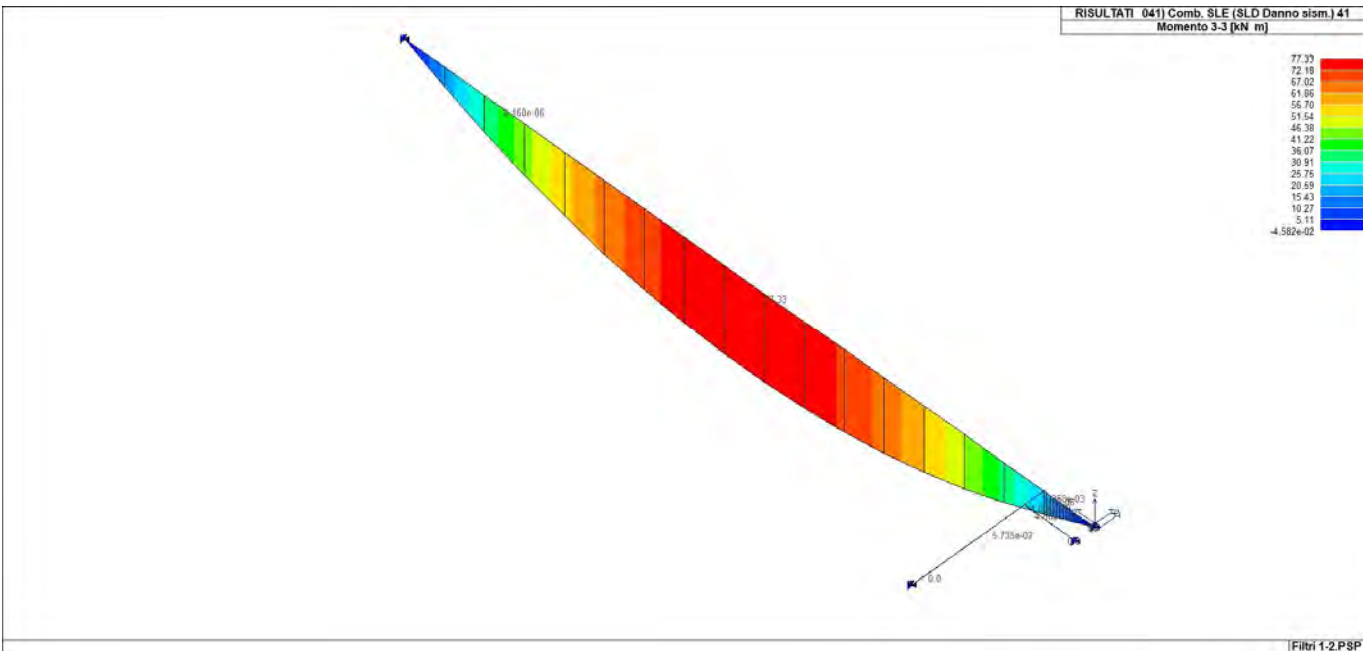
43_RIS_M2_044_Comb. SLE (SLD Danno sism.) 44



43_RIS_M3_003_Comb. SLU A1 3

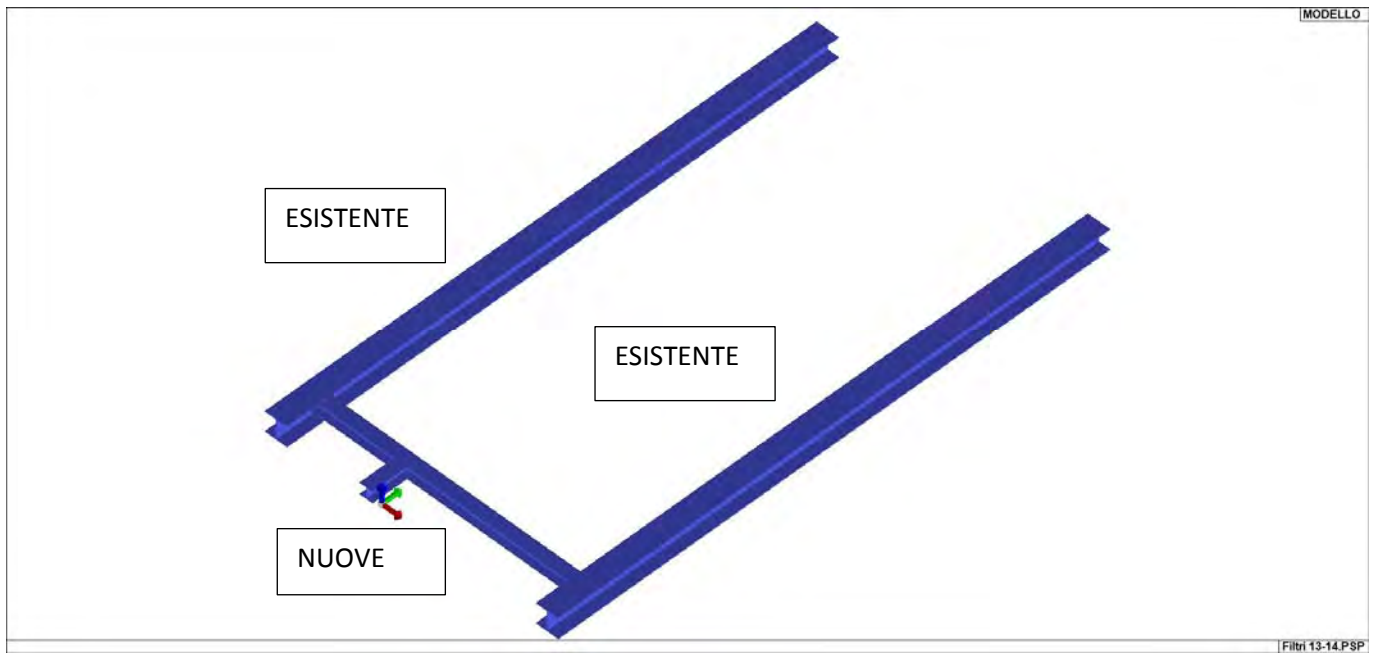


43_RIS_M3_009_Comb. SLU A1 (SLV sism.) 9



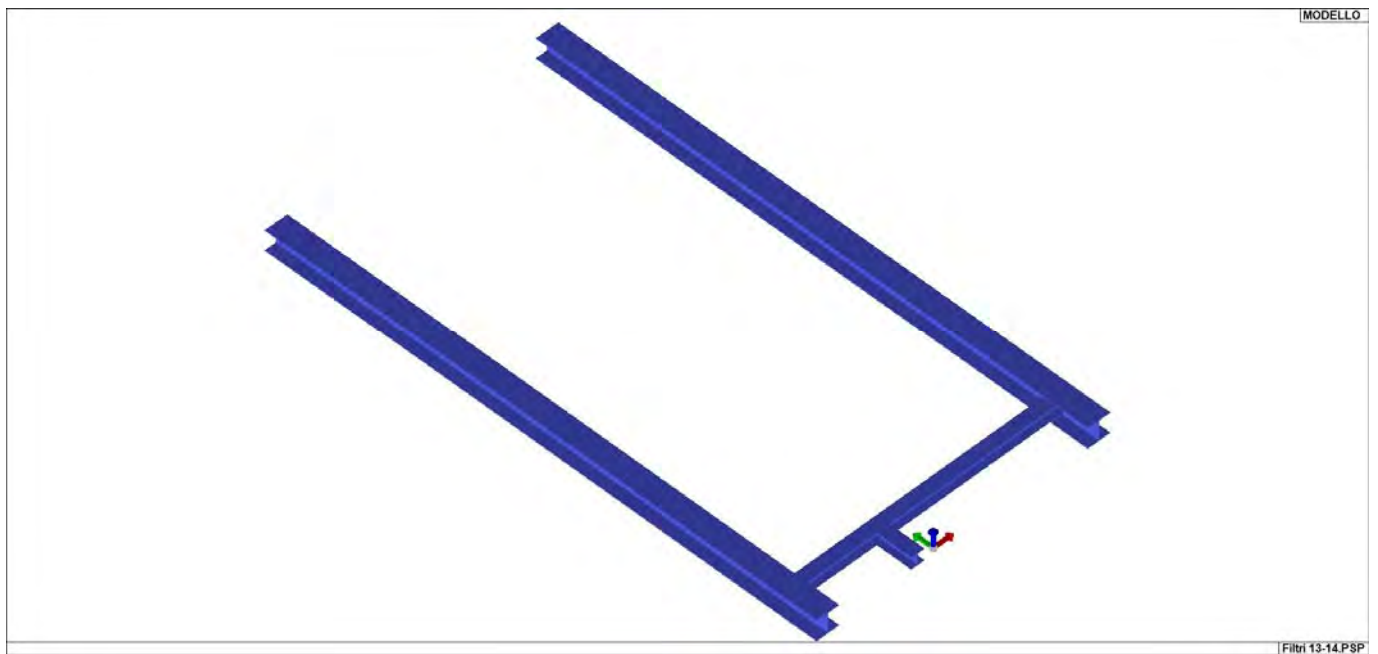
43_RIS_M3_041_Comb. SLE (SLD Danno sism.) 41

STRUTTURE ZONA FILTRO 3-4 (piano 7° e 8°)

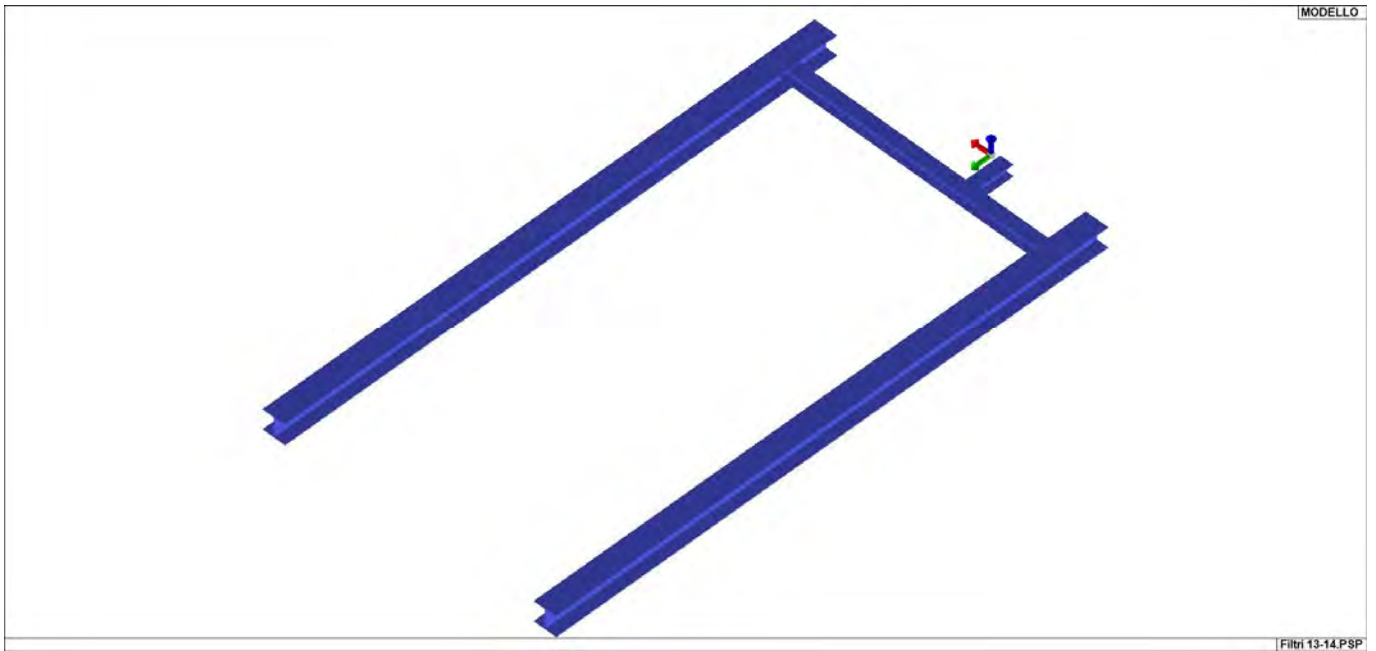


01_INT_VISTA_SOLIDA_001

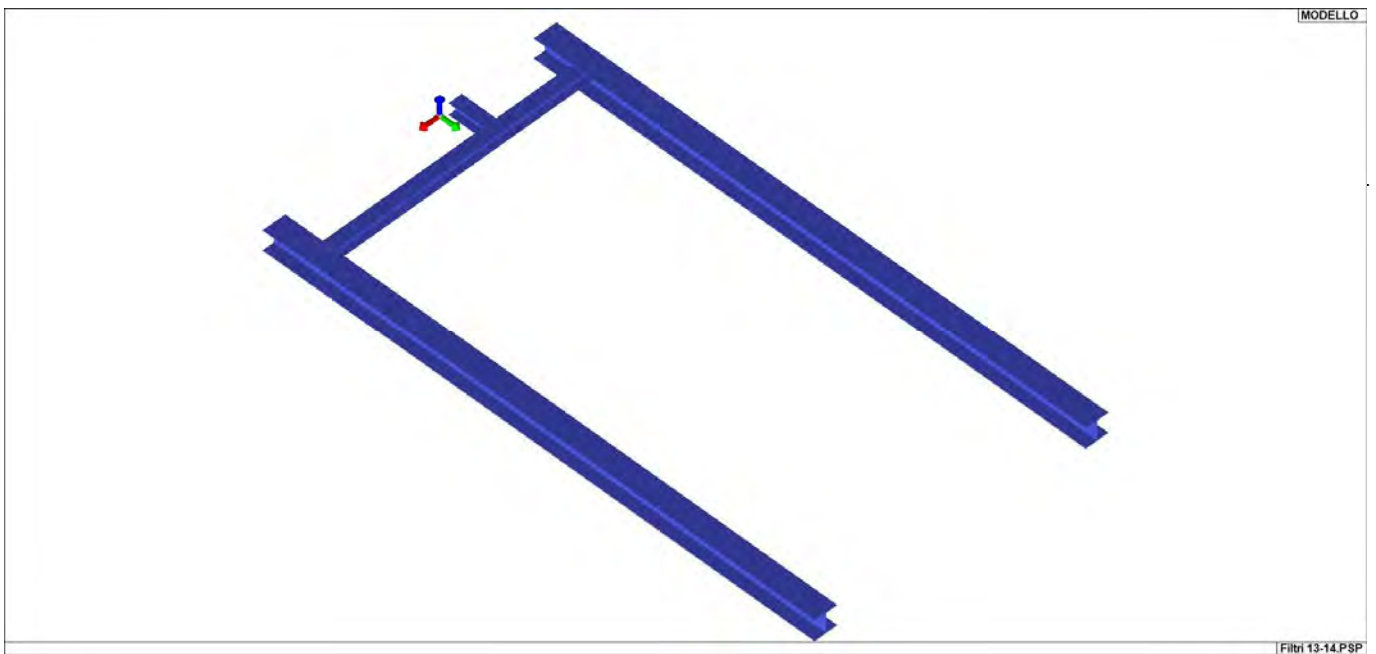
63



01_INT_VISTA_SOLIDA_002

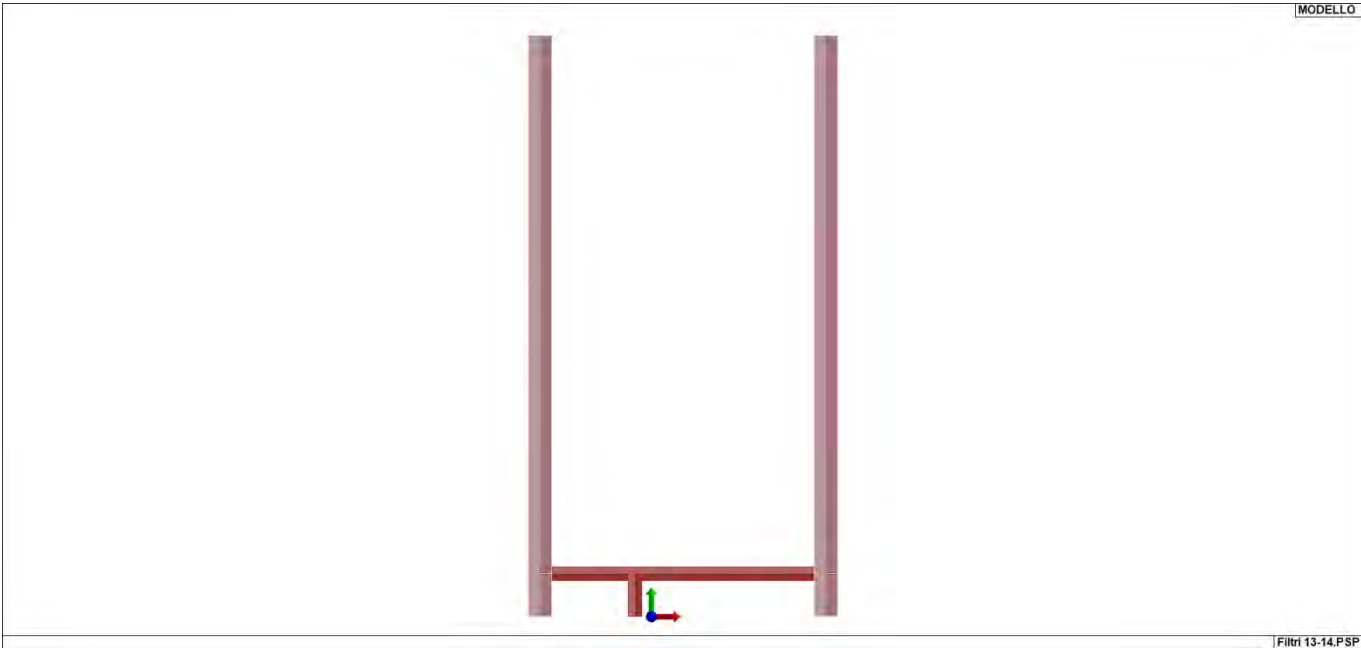


01_INT_VISTA_SOLIDA_003



01_INT_VISTA_SOLIDA_004

Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
		cm2	cm2	cm2	cm4	cm4	cm4	cm3	cm3	cm3	cm3
8	HEA 240	76.80	0.0	0.0	41.60	2769.00	7763.00	230.70	675.10	351.70	744.60
9	HEA 140	31.40	0.0	0.0	8.10	389.00	1033.00	55.60	155.40	84.80	173.50

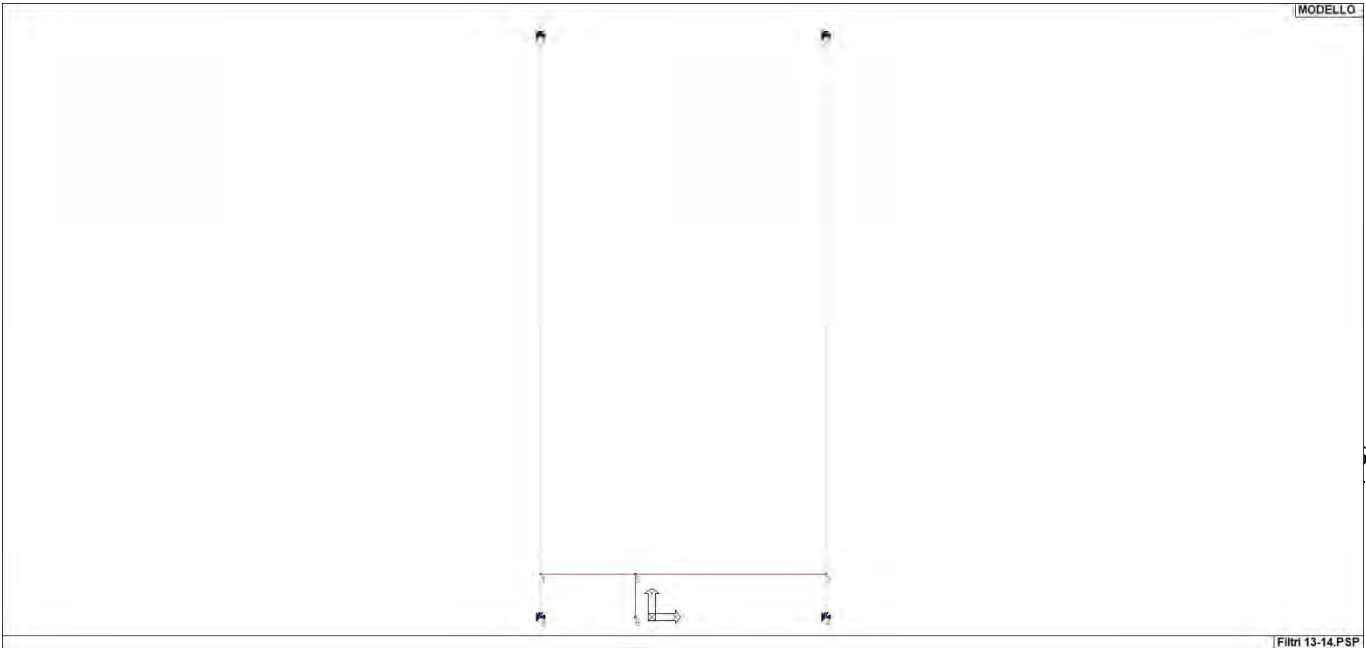


13_MOD_SEZIONI

MODELLAZIONE STRUTTURA: NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	-115.0	44.4	0.0	3	180.0	44.4	0.0	5	-17.0	44.4	0.0
6	-17.0	0.0	0.0								

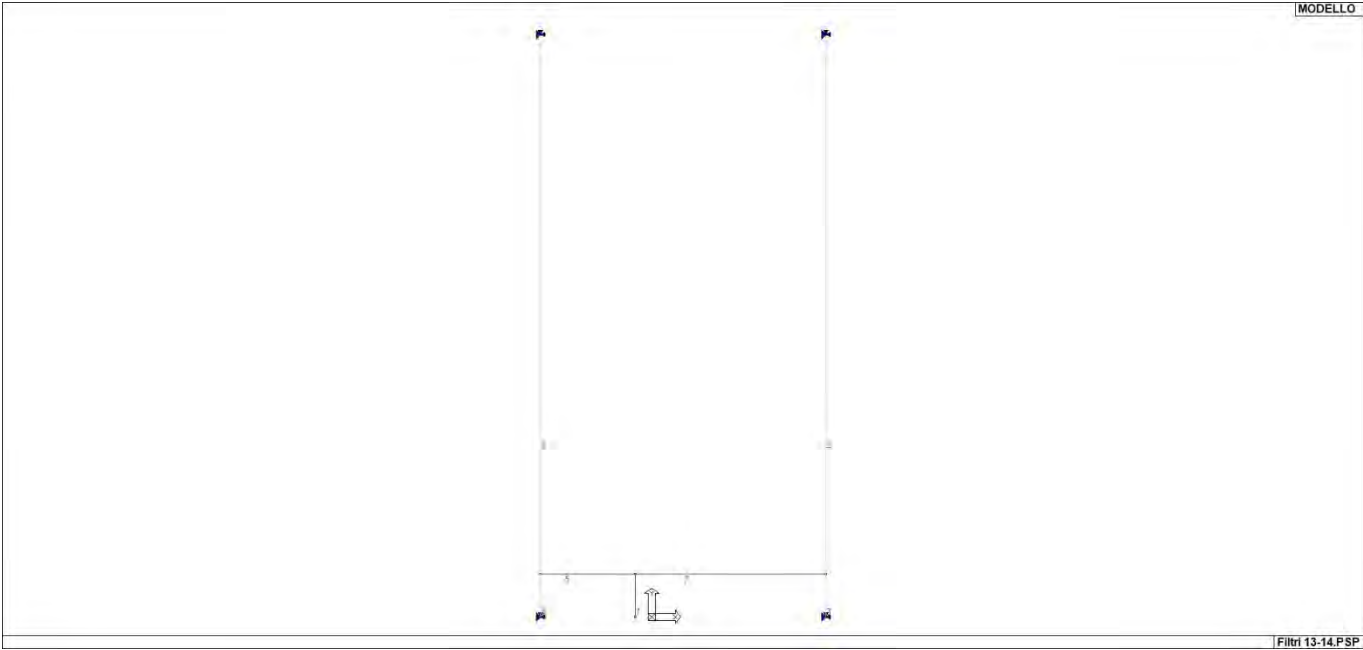
Nodo	X	Y	Z	Note	Rig. TX	Rig. TY	Rig. TZ	Rig. RX	Rig. RY	Rig. RZ
	cm	cm	cm		daN/cm	daN/cm	daN/cm	daN cm/rad	daN cm/rad	daN cm/rad
2	180.1	600.0	0.0	v=111000						
4	180.0	0.0	0.0	v=111000						
7	-114.9	600.0	0.0	v=111000						
8	-115.0	0.0	0.0	v=111000						



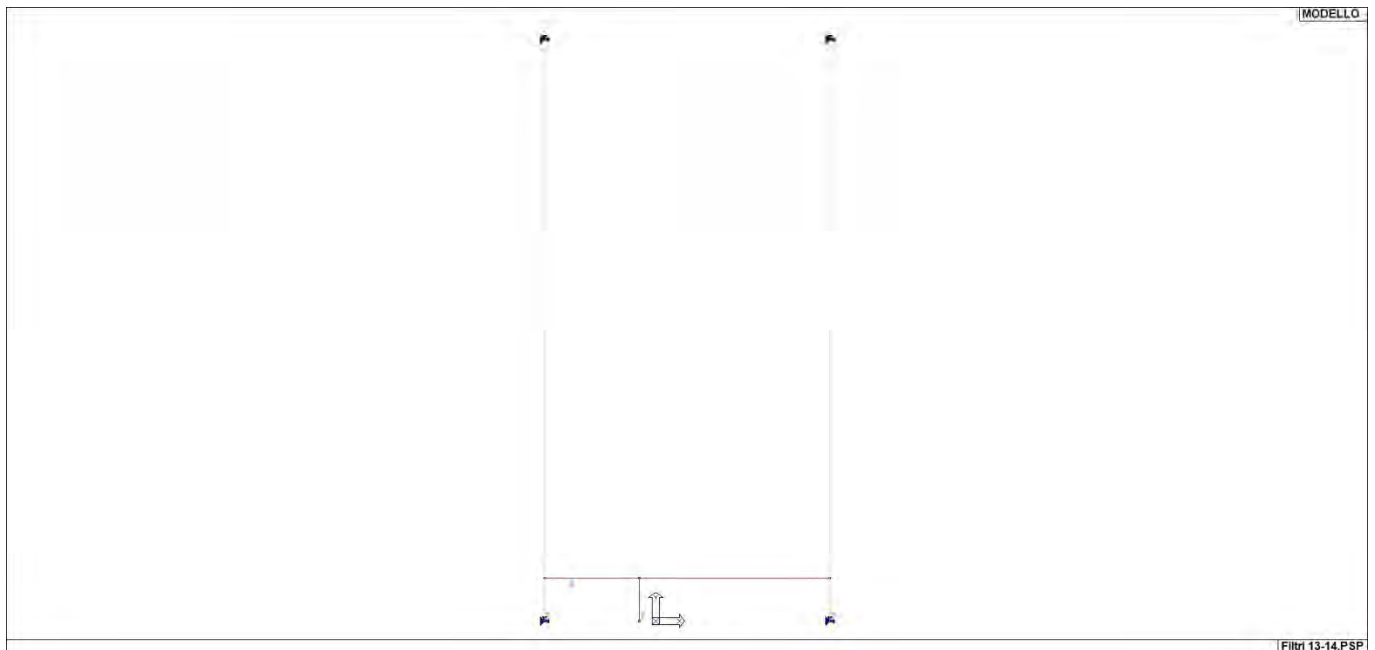
14_MOD_NUMERAZIONE_NODI

MODELLAZIONE STRUTTURA: ELEMENTI TRAVE

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
1	Trave	6	5	12	9					
2	Trave	3	2	12	8					
3	Trave	4	3	12	8					
4	Trave	8	1	12	8					
5	Trave	1	5	12	9					
6	Trave	1	7	12	8					
7	Trave	5	3	12	9					



15_MOD_NUMERAZIONE_D2



15_MOD_NUMERAZIONE_D2_TRAVATE

MODELLAZIONE DELLE AZIONI

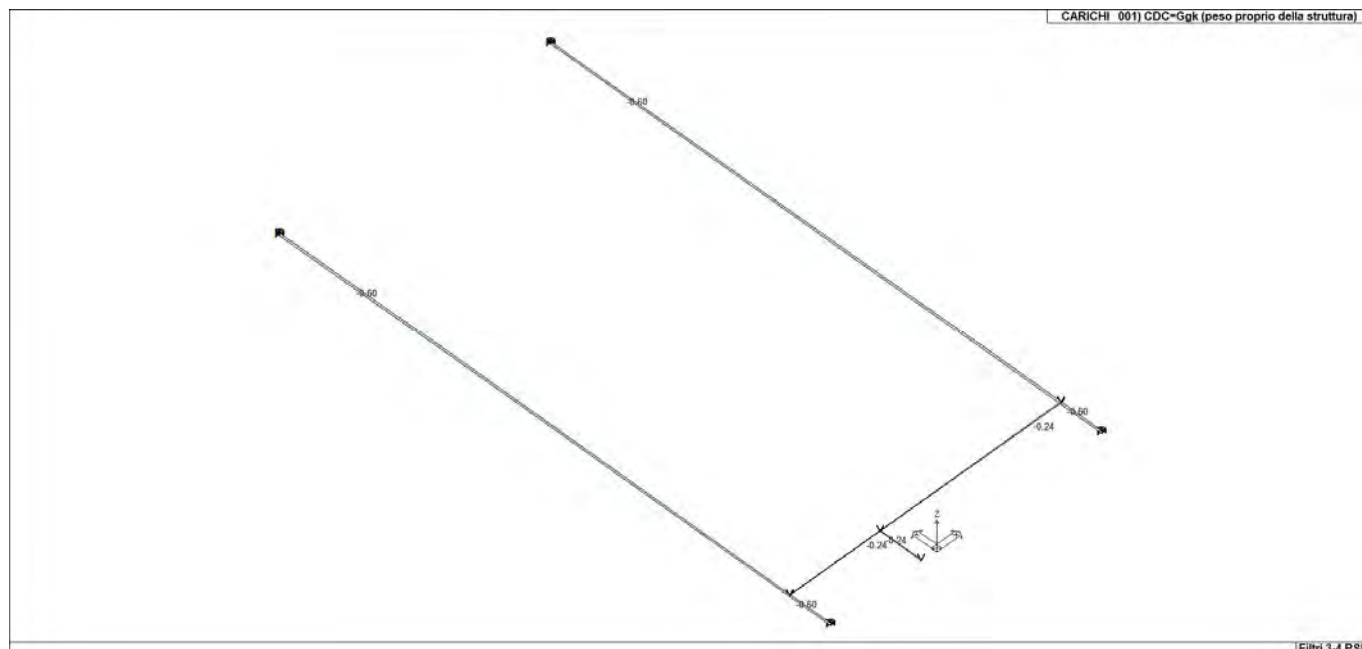
68

Tipo carico distribuito globale su trave

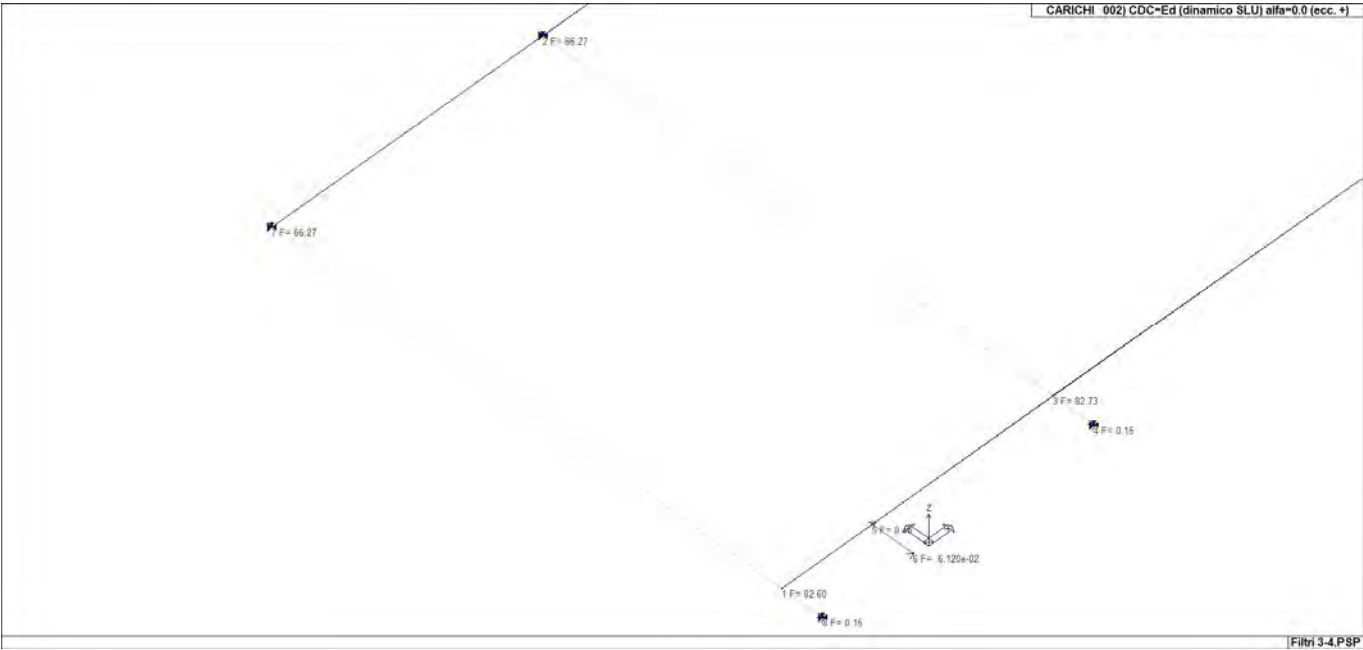
Id	Tipo	Pos.	fx	fy	fz	mx	my	mz
		m	kN/ m	kN/ m	kN/ m	kN	kN	kN
1	DG:Fzi=-7.80 Fzf=-7.80	0.0	0.0	0.0	-7.80	0.0	0.0	0.0
		0.0	0.0	0.0	-7.80	0.0	0.0	0.0
2	DG:Fzi=-7.80 Fzf=-7.80	0.0	0.0	0.0	-7.80	0.0	0.0	0.0
		0.0	0.0	0.0	-7.80	0.0	0.0	0.0
3	DG:Fzi=-13.20 Fzf=-13.20	0.0	0.0	0.0	-13.20	0.0	0.0	0.0
		0.0	0.0	0.0	-13.20	0.0	0.0	0.0
4	dead solaio su mensola-DG:Fzi=-2.30 Fzf=-2.30	0.0	0.0	0.0	-2.30	0.0	0.0	0.0
		0.0	0.0	0.0	-2.30	0.0	0.0	0.0
5	pnasolaio su mensola-DG:Fzi=-2.30 Fzf=-2.30	0.0	0.0	0.0	-2.30	0.0	0.0	0.0
		0.0	0.0	0.0	-2.30	0.0	0.0	0.0
6	acc solaio su mensola-DG:Fzi=-3.80 Fzf=-3.80	0.0	0.0	0.0	-3.80	0.0	0.0	0.0
		0.0	0.0	0.0	-3.80	0.0	0.0	0.0

SCHEMATIZZAZIONE DEI CASI DI CARICO

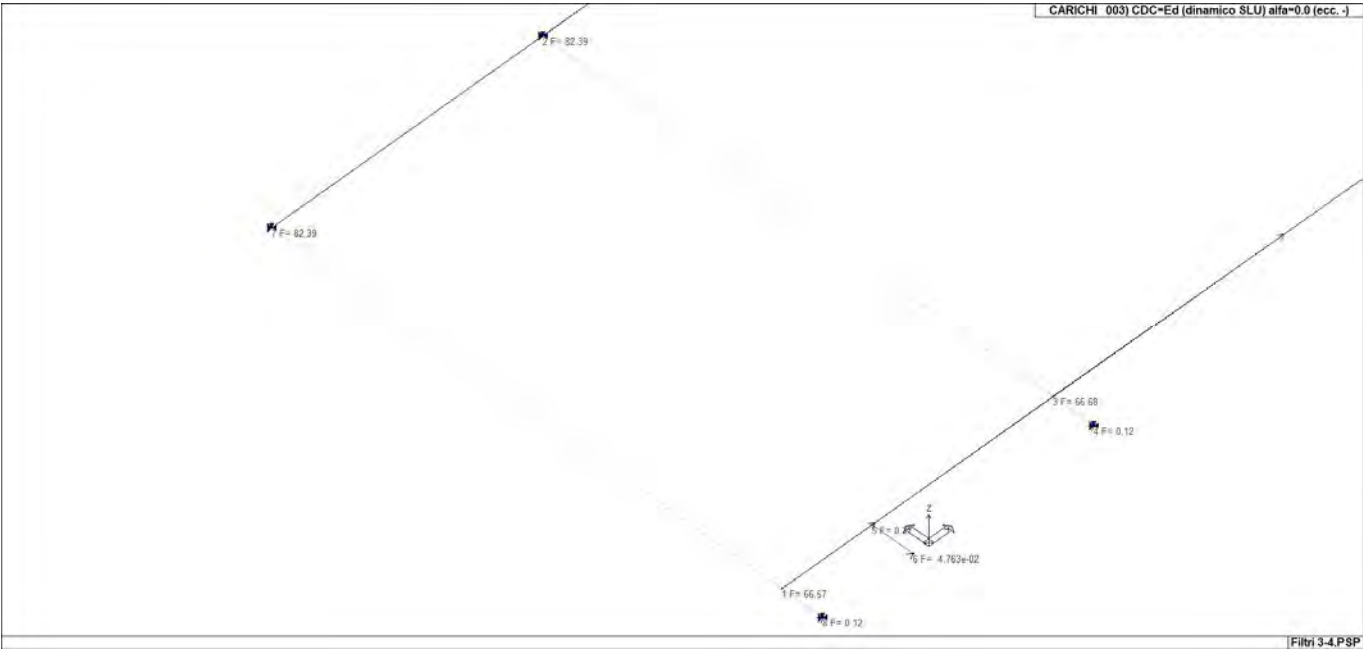
CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 10 CDC=G1k (permanente generico) dead solaio
			partecipazione:0.80 per 11 CDC=Qk (variabile generico) acc solaio
			partecipazione:1.00 per 12 CDC=G1k (permanente generico) pns solaio
3	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
4	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
5	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico
6	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
7	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico
8	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
9	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico
10	Gk	CDC=G1k (permanente generico) dead solaio	Azioni applicate: D2 : 2 Azione : DG:Fzi=-7.80 Fzf=-7.80
			D2 : 6 Azione : DG:Fzi=-7.80 Fzf=-7.80
11	Qk	CDC=Qk (variabile generico) acc solaio	Azioni applicate: D2 : 2 Azione : DG:Fzi=-13.20 Fzf=-13.20
			D2 : 6 Azione : DG:Fzi=-13.20 Fzf=-13.20
12	Gk	CDC=G1k (permanente generico) pns solaio	Azioni applicate: D2 : 2 Azione : DG:Fzi=-7.80 Fzf=-7.80
			D2 : 6 Azione : DG:Fzi=-7.80 Fzf=-7.80
13	Gk	CDC=G1k (permanente generico) dead solaio su mensola	Azioni applicate: D2 : 1 Azione : dead solaio su mensola-DG:Fzi=-2.30 Fzf=-2.30
14	Gk	CDC=G1k (permanente generico) pns solaio su mensola	Azioni applicate: D2 : 1 Azione : pns solaio su mensola-DG:Fzi=-2.30 Fzf=-2.30
15	Qk	CDC=Qk (variabile generico) acc solaio su mensola	Azioni applicate: D2 : 1 Azione : acc solaio su mensola-DG:Fzi=-3.80 Fzf=-3.80



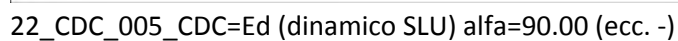
22_CDC_001_CDC=Ggk (peso proprio della struttura)

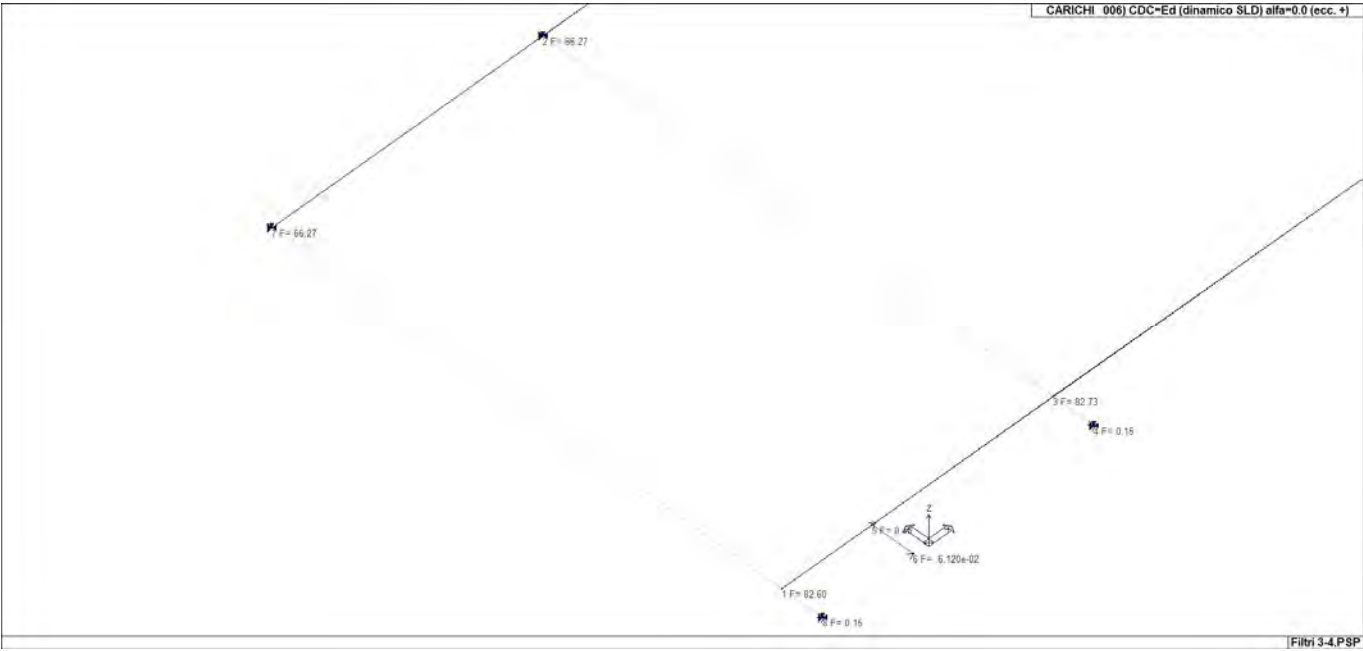


22_CDC_002_CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)

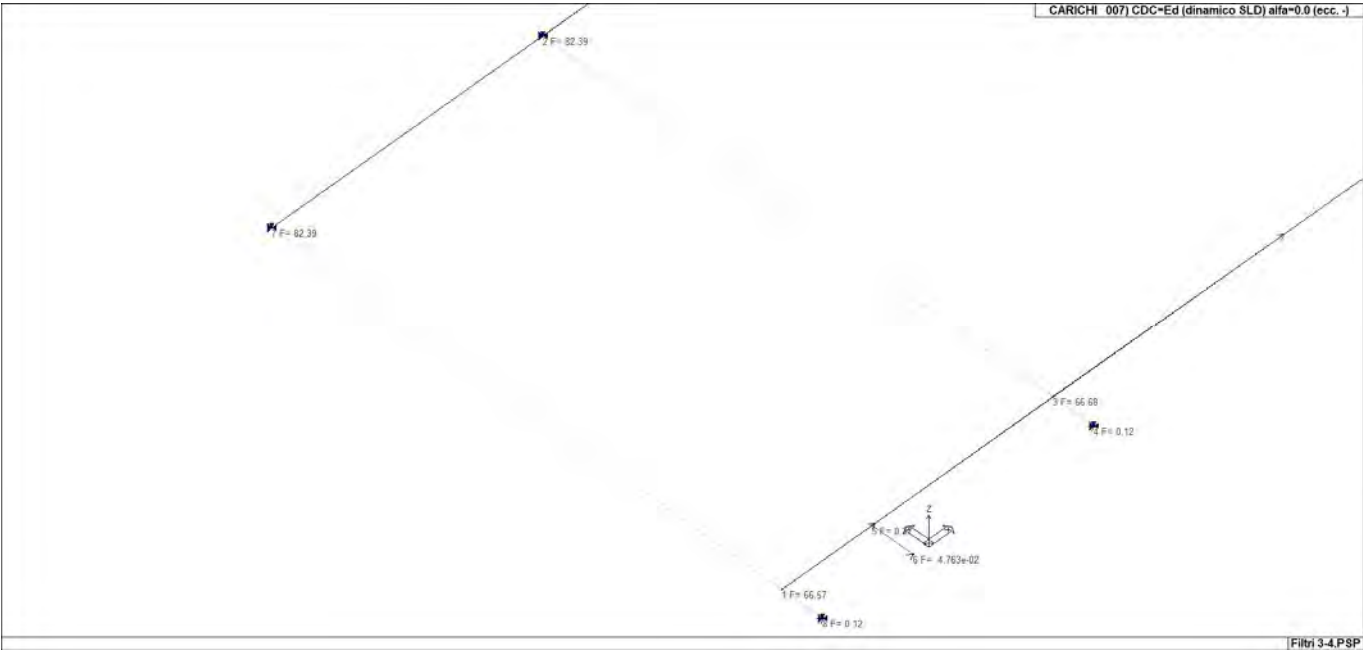


22_CDC_003_CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)

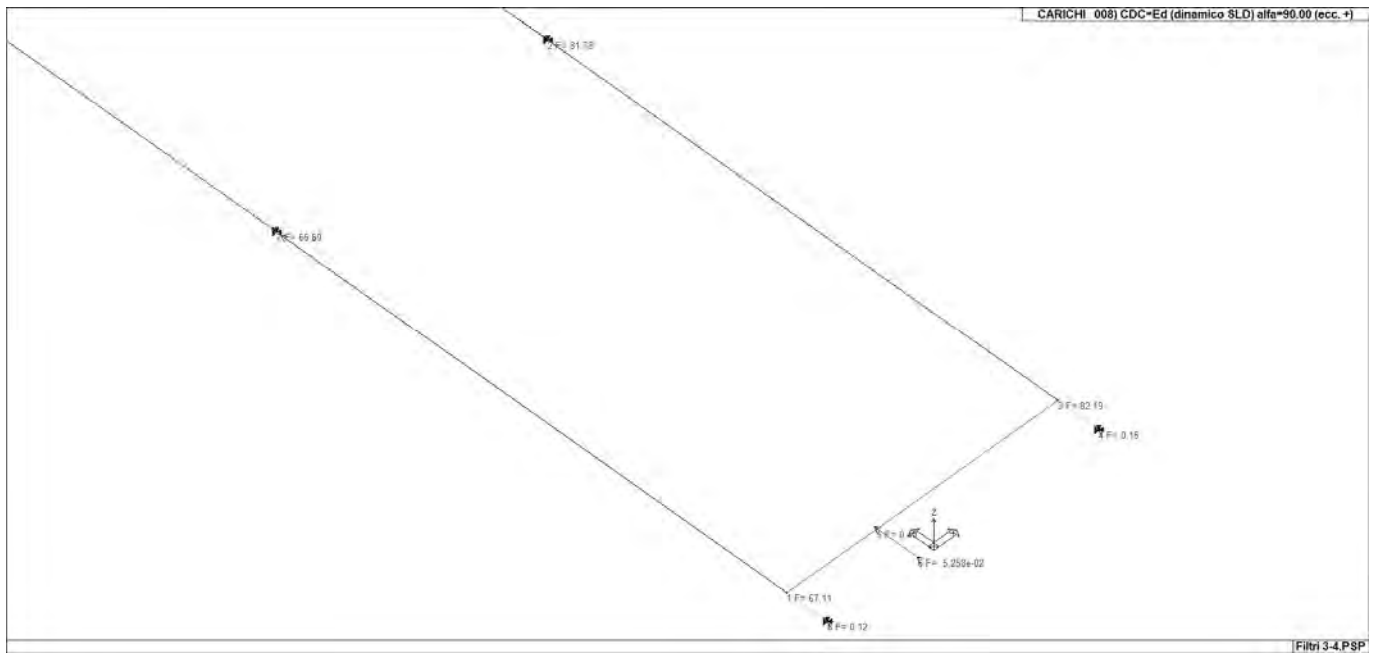




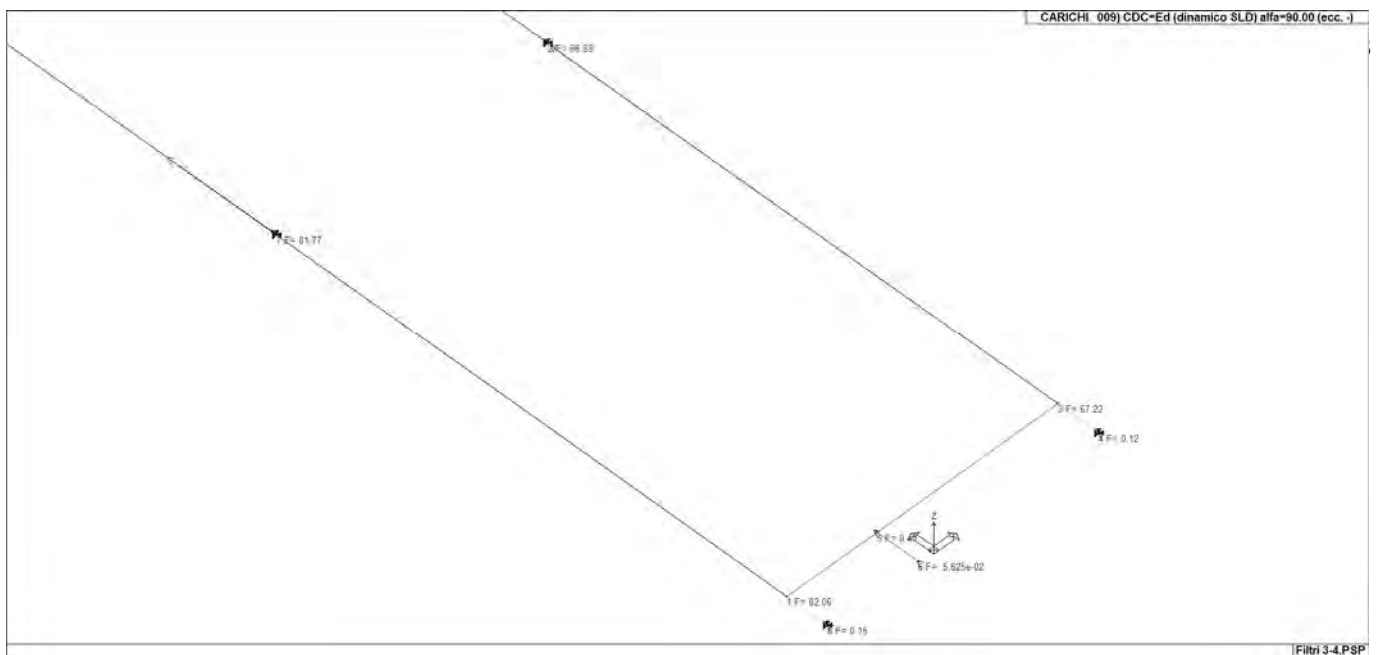
22_CDC_006_CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)



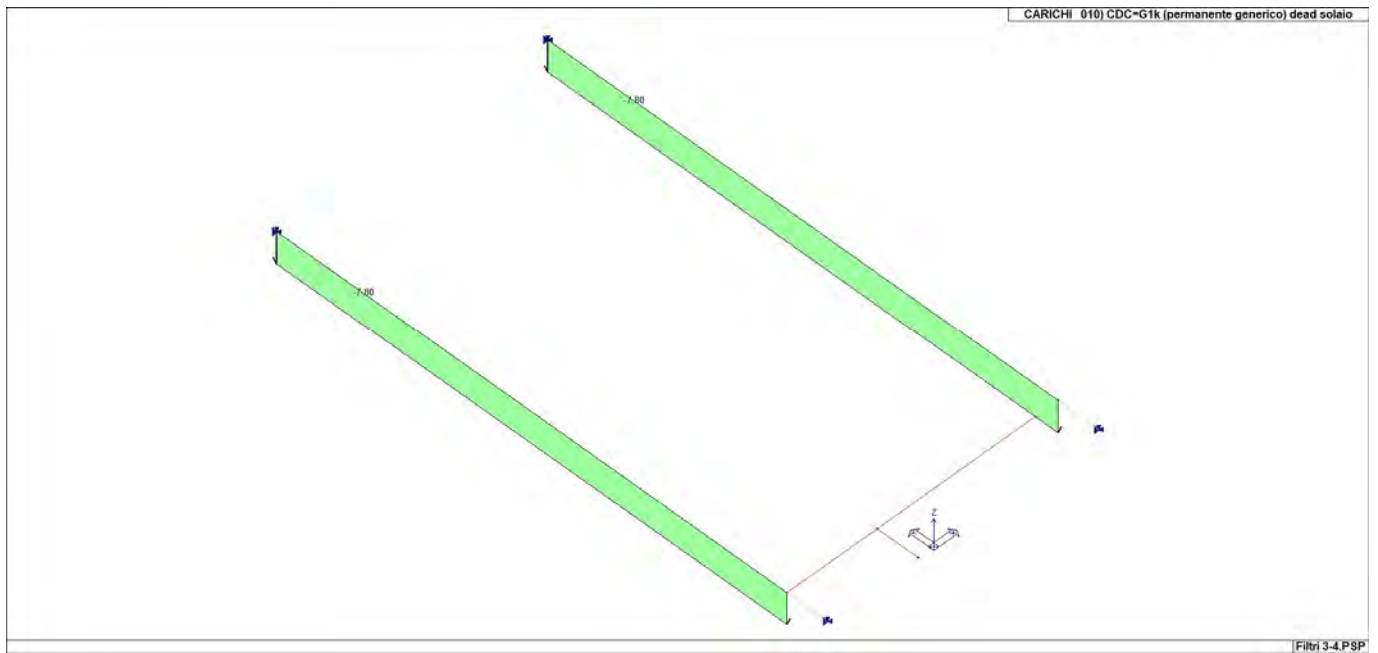
22_CDC_007_CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)



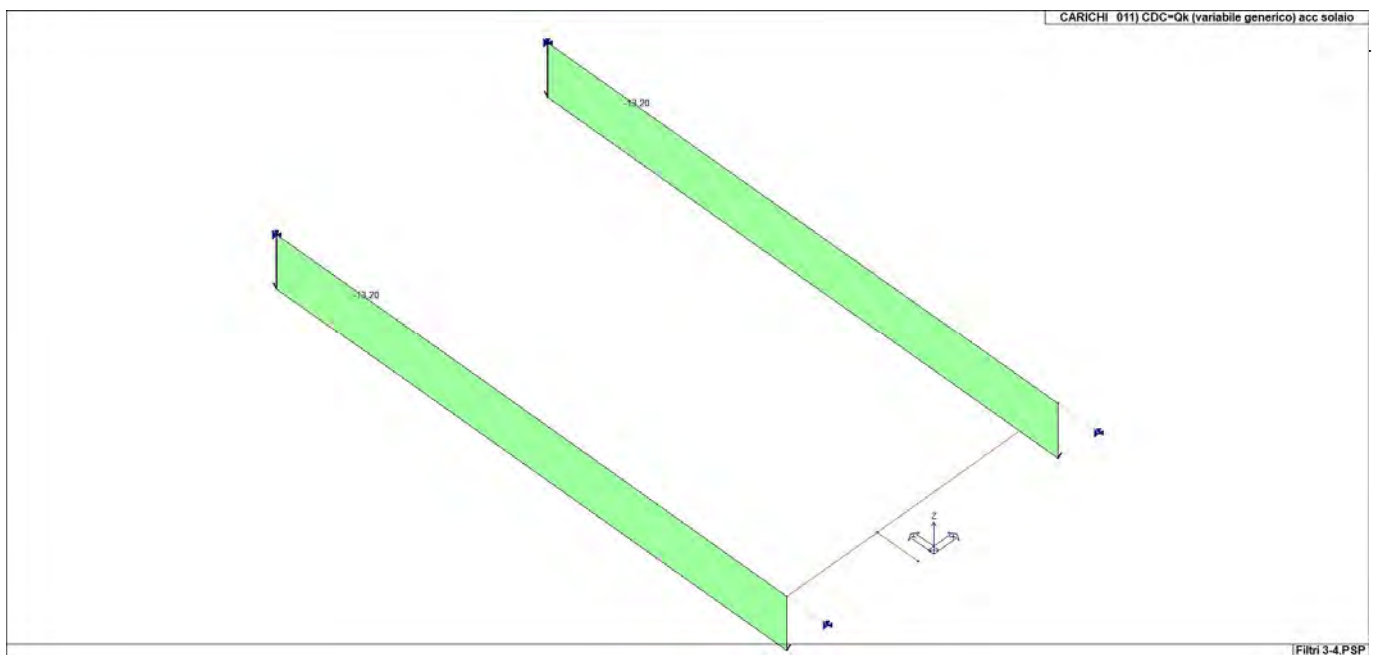
22_CDC_008_CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)



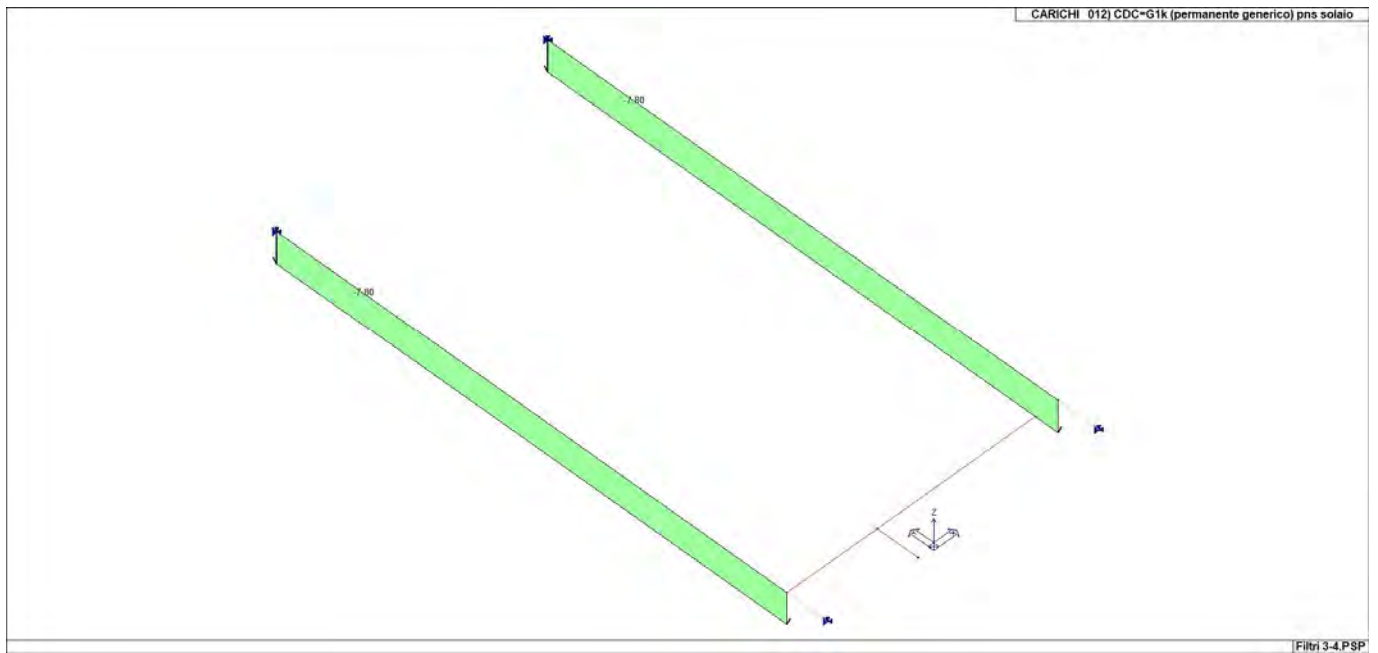
22_CDC_009_CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)



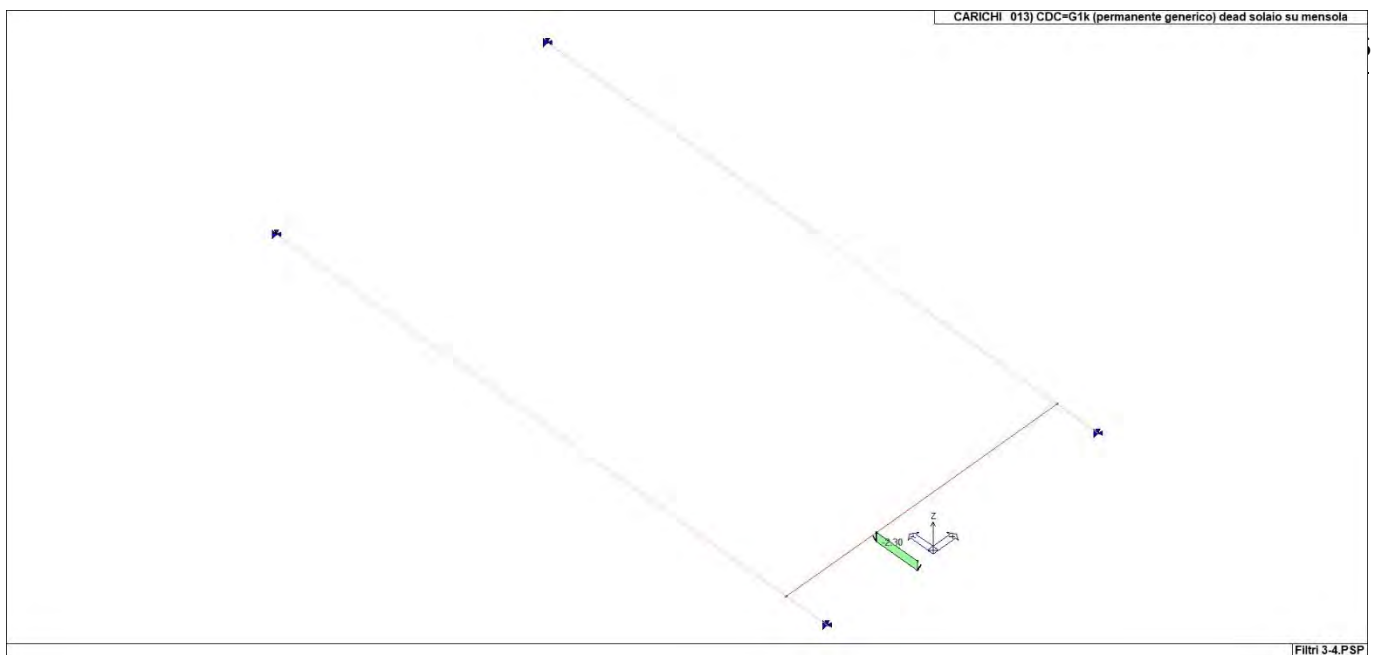
22_CDC_010_CDC=G1k (permanente generico) dead solaio



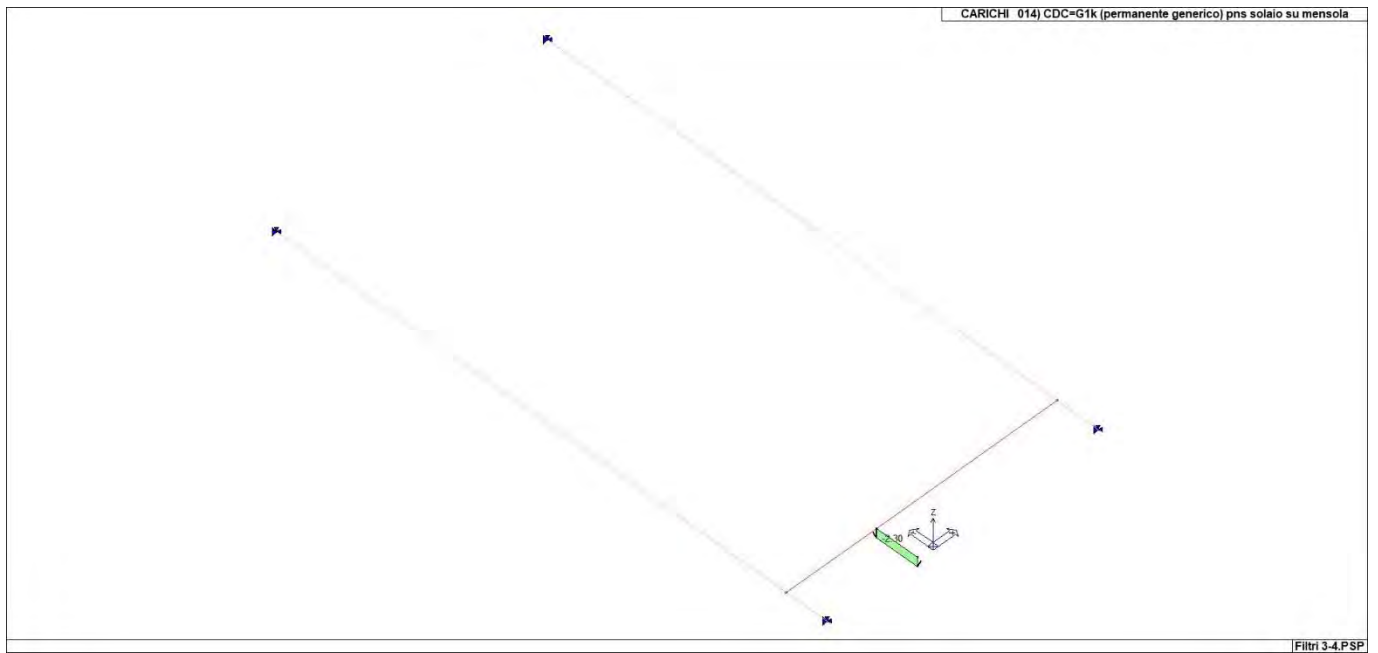
22_CDC_011_CDC=Qk (variabile generico) acc solaio



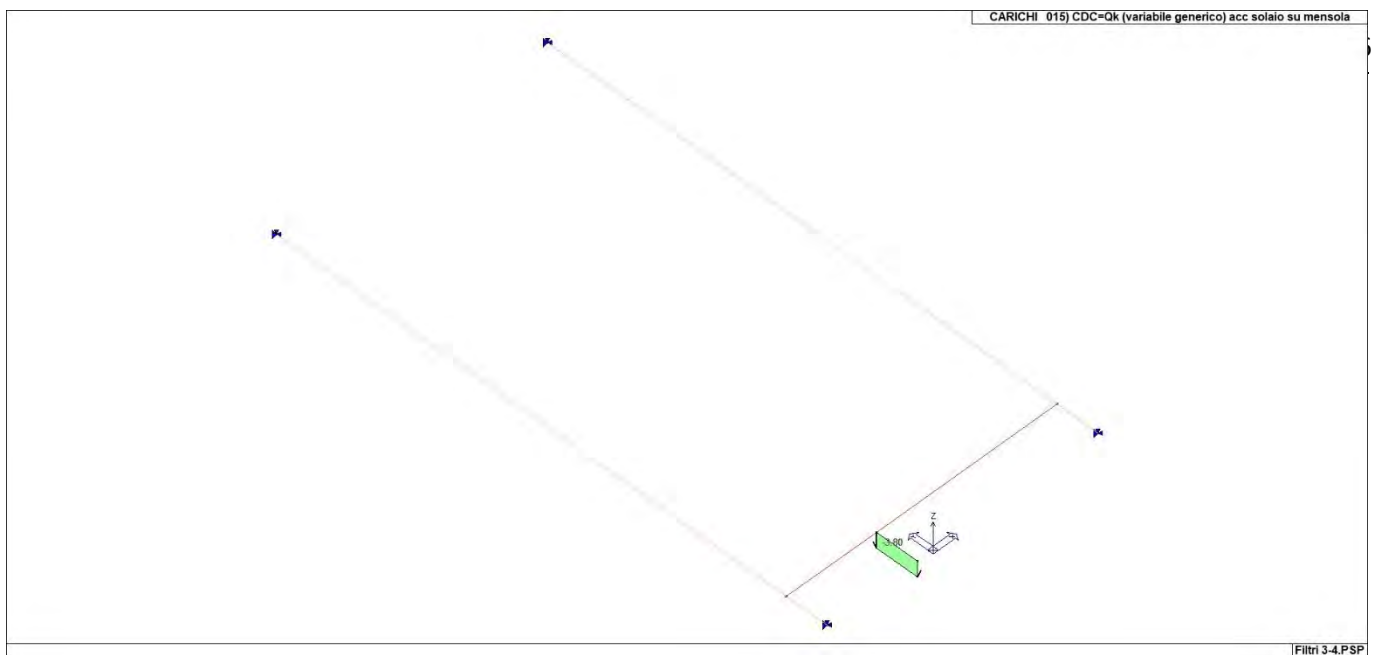
22_CDC_012_CDC=G1k (permanente generico) pns solaio



22_CDC_013_CDC=G1k (permanente generico) dead solaio su mensola



22_CDC_014_CDC=G1k (permanente generico) pns solaio su mensola



22_CDC_015_CDC=Qk (variabile generico) acc solaio su mensola

DEFINIZIONE DELLE COMBINAZIONI

LEGENDA TABELLA COMBINAZIONI DI CARICO

Il programma combina i diversi tipi di casi di carico (CDC) secondo le regole previste dalla normativa vigente. Le combinazioni previste sono destinate al controllo di sicurezza della struttura ed alla verifica degli spostamenti e delle sollecitazioni.

La prima tabella delle combinazioni riportata di seguito comprende le seguenti informazioni: Numero, Tipo, Sigla identificativa. Una seconda tabella riporta il peso nella combinazione assunto per ogni caso di carico.

Ai fini delle verifiche degli stati limite si definiscono le seguenti combinazioni delle azioni:

Combinazione fondamentale SLU

$$\gamma G_1 \cdot G_1 + \gamma G_2 \cdot G_2 + \gamma P \cdot P + \gamma Q_1 \cdot Q_{k1} + \gamma Q_2 \cdot \psi_{02} \cdot Q_{k2} + \gamma Q_3 \cdot \psi_{03} \cdot Q_{k3} + \dots$$

Combinazione caratteristica (rara) SLE

$$G_1 + G_2 + P + Q_{k1} + \psi_{02} \cdot Q_{k2} + \psi_{03} \cdot Q_{k3} + \dots$$

Combinazione frequente SLE

$$G_1 + G_2 + P + \psi_{11} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \dots$$

Combinazione quasi permanente SLE

$$G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \dots$$

Combinazione sismica, impiegata per gli stati limite ultimi e di esercizio connessi all'azione sismica E

$$E + G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \dots$$

Combinazione eccezionale, impiegata per gli stati limite connessi alle azioni eccezionali

$$G_1 + G_2 + A_d + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \dots$$

Dove:

NTC 2018 Tabella 2.5.1

Destinazione d'uso/azione	ψ_0	ψ_1	ψ_2
Categoria A residenziali	0,70	0,50	0,30
Categoria B uffici	0,70	0,50	0,30
Categoria C ambienti suscettibili di affollamento	0,70	0,70	0,60
Categoria D ambienti ad uso commerciale	0,70	0,70	0,60
Categoria E biblioteche, archivi, magazzini,...	1,00	0,90	0,80
Categoria F Rimesse e parcheggi (autoveicoli $\leq 30kN$)	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli $> 30kN$)	0,70	0,50	0,30
Categoria H Coperture	0,00	0,00	0,00
Vento	0,60	0,20	0,00
Neve a quota ≤ 1000 m	0,50	0,20	0,00
Neve a quota > 1000 m	0,70	0,50	0,20
Variazioni Termiche	0,60	0,50	0,00

Nelle verifiche possono essere adottati in alternativa due diversi approcci progettuali:

- per l'approccio 1 si considerano due diverse combinazioni di gruppi di coefficienti di sicurezza parziali per le azioni, per i materiali e per la resistenza globale (combinazione 1 con coefficienti A1 e combinazione 2 con coefficienti A2),
- per l'approccio 2 si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A1).

NTC 2018 Tabella 2.6.I

		Coefficiente γ_f	EQU	A1	A2
Carichi permanenti	Favorevoli	γ_{G1}	0,9	1,0	1,0
	Sfavorevoli		1,1	1,3	1,0
Carichi permanenti non strutturali (Non compiutamente definiti)	Favorevoli	γ_{G2}	0,8	0,8	0,8
	Sfavorevoli		1,5	1,5	1,3
Carichi variabili	Favorevoli	γ_{Qi}	0,0	0,0	0,0
	Sfavorevoli		1,5	1,5	1,3

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 1	
2	SLU	Comb. SLU A1 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SLU	Comb. SLU A1 5	
6	SLU	Comb. SLU A1 6	
7	SLU	Comb. SLU A1 7	
8	SLU	Comb. SLU A1 8	
9	SLU	Comb. SLU A1 (SLV sism.) 9	
10	SLU	Comb. SLU A1 (SLV sism.) 10	
11	SLU	Comb. SLU A1 (SLV sism.) 11	
12	SLU	Comb. SLU A1 (SLV sism.) 12	
13	SLU	Comb. SLU A1 (SLV sism.) 13	
14	SLU	Comb. SLU A1 (SLV sism.) 14	
15	SLU	Comb. SLU A1 (SLV sism.) 15	
16	SLU	Comb. SLU A1 (SLV sism.) 16	
17	SLU	Comb. SLU A1 (SLV sism.) 17	
18	SLU	Comb. SLU A1 (SLV sism.) 18	
19	SLU	Comb. SLU A1 (SLV sism.) 19	
20	SLU	Comb. SLU A1 (SLV sism.) 20	
21	SLU	Comb. SLU A1 (SLV sism.) 21	
22	SLU	Comb. SLU A1 (SLV sism.) 22	
23	SLU	Comb. SLU A1 (SLV sism.) 23	
24	SLU	Comb. SLU A1 (SLV sism.) 24	
25	SLU	Comb. SLU A1 (SLV sism.) 25	
26	SLU	Comb. SLU A1 (SLV sism.) 26	
27	SLU	Comb. SLU A1 (SLV sism.) 27	
28	SLU	Comb. SLU A1 (SLV sism.) 28	
29	SLU	Comb. SLU A1 (SLV sism.) 29	
30	SLU	Comb. SLU A1 (SLV sism.) 30	
31	SLU	Comb. SLU A1 (SLV sism.) 31	
32	SLU	Comb. SLU A1 (SLV sism.) 32	
33	SLU	Comb. SLU A1 (SLV sism.) 33	
34	SLU	Comb. SLU A1 (SLV sism.) 34	
35	SLU	Comb. SLU A1 (SLV sism.) 35	
36	SLU	Comb. SLU A1 (SLV sism.) 36	
37	SLU	Comb. SLU A1 (SLV sism.) 37	
38	SLU	Comb. SLU A1 (SLV sism.) 38	
39	SLU	Comb. SLU A1 (SLV sism.) 39	
40	SLU	Comb. SLU A1 (SLV sism.) 40	
41	SLD(sis)	Comb. SLE (SLD Danno sism.) 41	
42	SLD(sis)	Comb. SLE (SLD Danno sism.) 42	
43	SLD(sis)	Comb. SLE (SLD Danno sism.) 43	
44	SLD(sis)	Comb. SLE (SLD Danno sism.) 44	
45	SLD(sis)	Comb. SLE (SLD Danno sism.) 45	
46	SLD(sis)	Comb. SLE (SLD Danno sism.) 46	
47	SLD(sis)	Comb. SLE (SLD Danno sism.) 47	
48	SLD(sis)	Comb. SLE (SLD Danno sism.) 48	
49	SLD(sis)	Comb. SLE (SLD Danno sism.) 49	
50	SLD(sis)	Comb. SLE (SLD Danno sism.) 50	
51	SLD(sis)	Comb. SLE (SLD Danno sism.) 51	

Cmb	Tipo	Sigla Id	effetto P-delta
52	SLD(sis)	Comb. SLE (SLD Danno sism.) 52	
53	SLD(sis)	Comb. SLE (SLD Danno sism.) 53	
54	SLD(sis)	Comb. SLE (SLD Danno sism.) 54	
55	SLD(sis)	Comb. SLE (SLD Danno sism.) 55	
56	SLD(sis)	Comb. SLE (SLD Danno sism.) 56	
57	SLD(sis)	Comb. SLE (SLD Danno sism.) 57	
58	SLD(sis)	Comb. SLE (SLD Danno sism.) 58	
59	SLD(sis)	Comb. SLE (SLD Danno sism.) 59	
60	SLD(sis)	Comb. SLE (SLD Danno sism.) 60	
61	SLD(sis)	Comb. SLE (SLD Danno sism.) 61	
62	SLD(sis)	Comb. SLE (SLD Danno sism.) 62	
63	SLD(sis)	Comb. SLE (SLD Danno sism.) 63	
64	SLD(sis)	Comb. SLE (SLD Danno sism.) 64	
65	SLD(sis)	Comb. SLE (SLD Danno sism.) 65	
66	SLD(sis)	Comb. SLE (SLD Danno sism.) 66	
67	SLD(sis)	Comb. SLE (SLD Danno sism.) 67	
68	SLD(sis)	Comb. SLE (SLD Danno sism.) 68	
69	SLD(sis)	Comb. SLE (SLD Danno sism.) 69	
70	SLD(sis)	Comb. SLE (SLD Danno sism.) 70	
71	SLD(sis)	Comb. SLE (SLD Danno sism.) 71	
72	SLD(sis)	Comb. SLE (SLD Danno sism.) 72	
73	SLE(p)	Comb. SLE(perm.) 73	
74	SLE(p)	Comb. SLE(perm.) 74	
75	SLE(p)	Comb. SLE(perm.) 75	
76	SLE(p)	Comb. SLE(perm.) 76	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.0	1.30	1.30	1.30
2	0.0	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.0	1.30	1.30	1.30
3	1.50	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	1.50	1.30	1.30	1.30
4	0.0	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	1.50	1.30	1.30	1.30
5	1.50	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	1.00	1.00	1.00
6	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	1.00	1.00	1.00
7	1.50	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.50	1.00	1.00	1.00
8	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.50	1.00	1.00	1.00
9	1.50	1.00	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
10	0.80	1.00	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
11	0.80	1.00	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
12	0.80	1.00	1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
13	0.80	1.00	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
14	0.80	1.00	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
15	0.80	1.00	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
16	0.80	1.00	1.00	0.0	0.0	0.30	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
17	0.80	1.00	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
18	0.80	1.00	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
19	0.80	1.00	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.80													
20	1.00	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
21	1.00	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
22	1.00	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
23	1.00	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
24	1.00	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
25	1.00	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
26	1.00	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
27	1.00	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
28	1.00	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
29	1.00	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
30	1.00	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
31	1.00	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
32	1.00	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
33	1.00	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
34	1.00	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
35	1.00	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
36	1.00	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
37	1.00	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
38	1.00	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
39	1.00	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
40	1.00	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
41	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
42	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
43	1.00	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
44	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
45	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30	1.00	0.80	1.00	1.00	1.00
	0.80													
46	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30	1.00	0.80	1.00	1.00	1.00
	0.80													
47	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30	1.00	0.80	1.00	1.00	1.00
	0.80													
48	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30	1.00	0.80	1.00	1.00	1.00
	0.80													
49	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
50	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
51	1.00	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
52	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
53	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	1.00	0.80	1.00	1.00	1.00

80

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.80													
54	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	1.00	0.80	1.00	1.00	1.00
	0.80													
55	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	1.00	0.80	1.00	1.00	1.00
	0.80													
56	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	1.00	0.80	1.00	1.00	1.00
	0.80													
57	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
58	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
59	1.00	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
60	1.00	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
61	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
62	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
63	1.00	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
64	1.00	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													
65	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00	1.00	0.80	1.00	1.00	1.00
	0.80													
66	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00	1.00	0.80	1.00	1.00	1.00
	0.80													
67	1.00	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00	1.00	0.80	1.00	1.00	1.00
	0.80													
68	1.00	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00	1.00	0.80	1.00	1.00	1.00
	0.80													
69	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	1.00	0.80	1.00	1.00	1.00
	0.80													
70	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	1.00	0.80	1.00	1.00	1.00
	0.80													
71	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	1.00	0.80	1.00	1.00	1.00
	0.80													
72	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	1.00	0.80	1.00	1.00	1.00
	0.80													
73	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	1.00	1.00	1.00
	0.0													
74	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	1.00	1.00	1.00
	0.80													
75	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.0													
76	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00	1.00	1.00
	0.80													

AZIONE SISMICA

VALUTAZIONE DELL' AZIONE SISMICA

L'azione sismica sulle costruzioni è valutata a partire dalla "pericolosità sismica di base", in condizioni ideali di sito di riferimento rigido con superficie topografica orizzontale.

Allo stato attuale, la pericolosità sismica su reticolo di riferimento nell'intervallo di riferimento è fornita dai dati pubblicati sul sito <http://esse1.mi.ingv.it/>. Per punti non coincidenti con il reticolo di riferimento e periodi di ritorno non contemplati direttamente si opera come indicato nell' allegato alle NTC (rispettivamente media pesata e interpolazione).

L' azione sismica viene definita in relazione ad un periodo di riferimento V_r che si ricava, per ciascun tipo di costruzione, moltiplicandone la vita nominale per il coefficiente d'uso (vedi tabella Parametri della struttura). Fissato il periodo di riferimento V_r e la probabilità di superamento P_{ver} associata a ciascuno degli stati limite considerati, si ottiene il periodo di ritorno T_r e i relativi parametri di pericolosità sismica (vedi tabella successiva):

a_g : accelerazione orizzontale massima del terreno;

F_o : valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;

T^*c : periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale;

Parametri della struttura					
Classe d'uso	Vita V_n [anni]	Coeff. Uso	Periodo V_r [anni]	Tipo di suolo	Categoria topografica
IV	100.0	2.0	200.0	C	T1

Individuati su reticolo di riferimento i parametri di pericolosità sismica si valutano i parametri spettrali riportati in tabella:

S è il coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche mediante la relazione seguente $S = S_s \cdot S_t$ (3.2.3)

F_o è il fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale

F_v è il fattore che quantifica l'amplificazione spettrale massima verticale, in termini di accelerazione orizzontale massima del terreno a_g su sito di riferimento rigido orizzontale

T_b è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante.

T_c è il periodo corrispondente all'inizio del tratto dello spettro a velocità costante.

T_d è il periodo corrispondente all'inizio del tratto dello spettro a spostamento costante.

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	9.190	45.464	
12260	9.146	45.457	3.507
12261	9.217	45.459	2.171
12039	9.214	45.509	5.325
12038	9.143	45.507	6.004

SL	P_{ver}	T_r	a_g	F_o	T^*c
		Anni	g		sec
SLO	81.0	120.0	0.033	2.590	0.220
SLD	63.0	201.0	0.039	2.630	0.250
SLV	10.0	1898.0	0.071	2.750	0.310
SLC	5.0	2475.0	0.075	2.780	0.310

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.033	1.500	2.590	0.638	0.127	0.381	1.733
SLD	0.039	1.500	2.630	0.698	0.138	0.415	1.754
SLV	0.071	1.500	2.750	0.986	0.160	0.479	1.882
SLC	0.075	1.500	2.780	1.031	0.160	0.479	1.902

RISULTATI ANALISI DINAMICHE

CDC	Tipo	Sigla Id	Note
2	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.291 g
			angolo di ingresso: 0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.118 sec.
			fattore q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: ND
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	298.69	0.33	3.21	0.0	-0.30	0.0	0.0	0.0	0.0	0.0
Risulta	298.69									

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Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	8.482	0.118	0.242	165.76	55.5	2.71e-04	9.09e-05	0.0	0.0	0.0	0.0
2	12.642	0.079	0.198	0.0	0.0	0.0	0.0	148.85	49.8	0.0	0.0
3	12.661	0.079	0.197	0.0	0.0	0.0	0.0	0.89	0.3	0.0	0.0
4	15.120	0.066	0.183	0.0	0.0	0.0	0.0	0.02	5.48e-03	0.0	0.0
5	37.305	0.027	0.137	1.06e-03	3.56e-04	6.35e-03	2.13e-03	0.0	0.0	0.0	0.0
6	55.875	0.018	0.127	0.0	0.0	0.0	0.0	1.67e-03	5.59e-04	0.0	0.0
7	66.073	0.015	0.123	0.08	2.82e-02	1.03	0.3	0.0	0.0	0.0	0.0
8	114.197	0.009	0.116	1.36e-05	4.56e-06	46.83	15.7	0.0	0.0	0.0	0.0
9	114.371	0.009	0.116	1.13e-04	3.77e-05	101.89	34.1	0.0	0.0	0.0	0.0
10	231.474	0.004	0.111	0.01	4.14e-03	8.21e-04	2.75e-04	0.0	0.0	0.0	0.0
11	743.917	0.001	0.107	1.71e-05	5.74e-06	0.0	0.0	0.0	0.0	0.0	0.0
12	2.7685e+03	3.6121e-04	0.106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta				165.85		149.76		149.76			
In percentuale				55.53		50.14		50.14			

CDC	Tipo	Sigla Id	Note
3	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500

CDC	Tipo	Sigla Id	Note
			ordinata spettro (tratto Tb-Tc) = 0.291 g
			angolo di ingresso: 0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.106 sec.
			fattore q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: ND
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	298.69	0.33	3.21	0.0	0.30	0.0	0.0	0.0	0.0	0.0
Risulta	298.69									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	9.447	0.106	0.229	133.57	44.7	3.40e-04	1.14e-04	0.0	0.0	0.0	0.0
2	12.642	0.079	0.198	0.0	0.0	0.0	0.0	148.85	49.8	0.0	0.0
3	12.661	0.079	0.197	0.0	0.0	0.0	0.0	0.89	0.3	0.0	0.0
4	15.120	0.066	0.183	0.0	0.0	0.0	0.0	0.02	5.48e-03	0.0	0.0
5	41.494	0.024	0.134	1.65e-03	5.53e-04	0.01	3.50e-03	0.0	0.0	0.0	0.0
6	55.875	0.018	0.127	0.0	0.0	0.0	0.0	1.67e-03	5.59e-04	0.0	0.0
7	66.294	0.015	0.123	0.09	2.88e-02	1.04	0.3	0.0	0.0	0.0	0.0
8	114.198	0.009	0.116	1.46e-05	4.89e-06	48.03	16.1	0.0	0.0	0.0	0.0
9	114.376	0.009	0.116	1.29e-04	4.33e-05	100.68	33.7	0.0	0.0	0.0	0.0
10	261.892	0.004	0.110	9.53e-03	3.19e-03	3.29e-04	1.10e-04	0.0	0.0	0.0	0.0
11	828.668	0.001	0.107	1.39e-05	4.65e-06	0.0	0.0	0.0	0.0	0.0	0.0
12	2.7685e+03	3.6121e-04	0.106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta				133.67		149.76		149.76			
In percentuale				44.75		50.14		50.14			

CDC	Tipo	Sigla Id	Note
4	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.291 g
			angolo di ingresso: 90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.009 sec.
			fattore q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: ND
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	298.69	0.33	3.21	0.15	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	298.69									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	8.926	0.112	0.236	149.67	50.1	3.06e-04	1.02e-04	0.0	0.0	0.0	0.0
2	12.642	0.079	0.198	0.0	0.0	0.0	0.0	148.85	49.8	0.0	0.0
3	12.661	0.079	0.197	0.0	0.0	0.0	0.0	0.89	0.3	0.0	0.0
4	15.120	0.066	0.183	0.0	0.0	0.0	0.0	0.02	5.48e-03	0.0	0.0
5	39.243	0.025	0.135	1.17e-03	3.92e-04	7.09e-03	2.37e-03	0.0	0.0	0.0	0.0
6	55.875	0.018	0.127	0.0	0.0	0.0	0.0	1.67e-03	5.59e-04	0.0	0.0
7	67.287	0.015	0.123	0.08	2.75e-02	0.99	0.3	0.0	0.0	0.0	0.0
8	108.882	0.009	0.117	2.48e-06	0.0	81.59	27.3	0.0	0.0	0.0	0.0
9	120.563	0.008	0.116	1.08e-04	3.61e-05	67.17	22.5	0.0	0.0	0.0	0.0
10	245.315	0.004	0.111	0.01	3.67e-03	7.97e-04	2.67e-04	0.0	0.0	0.0	0.0
11	782.873	0.001	0.107	1.55e-05	5.20e-06	0.0	0.0	0.0	0.0	0.0	0.0
12	2.8163e+03	3.5508e-04	0.106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta				149.76		149.75		149.76			
In percentuale				50.14		50.14		50.14			

CDC	Tipo	Sigla Id	Note
5	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.291 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.009 sec.
			fattore q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: ND
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	298.69	0.33	3.21	-0.15	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	298.69									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	8.926	0.112	0.236	149.66	50.1	2.98e-04	9.98e-05	0.0	0.0	0.0	0.0
2	12.642	0.079	0.198	0.0	0.0	0.0	0.0	148.85	49.8	0.0	0.0
3	12.661	0.079	0.197	0.0	0.0	0.0	0.0	0.89	0.3	0.0	0.0
4	15.120	0.066	0.183	0.0	0.0	0.0	0.0	0.02	5.48e-03	0.0	0.0
5	39.226	0.025	0.135	1.44e-03	4.81e-04	8.93e-03	2.99e-03	0.0	0.0	0.0	0.0
6	55.875	0.018	0.127	0.0	0.0	0.0	0.0	1.67e-03	5.59e-04	0.0	0.0
7	65.119	0.015	0.124	0.09	2.95e-02	1.09	0.4	0.0	0.0	0.0	0.0
8	109.039	0.009	0.117	1.59e-04	5.32e-05	81.17	27.2	0.0	0.0	0.0	0.0
9	120.390	0.008	0.116	2.74e-06	0.0	67.50	22.6	0.0	0.0	0.0	0.0
10	245.188	0.004	0.111	0.01	3.66e-03	3.48e-04	1.16e-04	0.0	0.0	0.0	0.0
11	782.872	0.001	0.107	1.55e-05	5.19e-06	0.0	0.0	0.0	0.0	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
12	2.7230e+03	3.6724e-04	0.106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta				149.76		149.77		149.76			
In percentuale				50.14		50.14		50.14			

CDC	Tipo	Sigla Id	Note
6	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.152 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.118 sec.
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	298.69	0.33	3.21	0.0	-0.30	0.0	0.0	0.0	0.0	0.0
Risulta	298.69									

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Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	8.482	0.118	0.139	165.76	55.5	2.71e-04	9.09e-05	0.0	0.0	0.0	0.0
2	12.642	0.079	0.112	0.0	0.0	0.0	0.0	148.85	49.8	0.0	0.0
3	12.661	0.079	0.112	0.0	0.0	0.0	0.0	0.89	0.3	0.0	0.0
4	15.120	0.066	0.103	0.0	0.0	0.0	0.0	0.02	5.48e-03	0.0	0.0
5	37.305	0.027	0.076	1.06e-03	3.56e-04	6.35e-03	2.13e-03	0.0	0.0	0.0	0.0
6	55.875	0.018	0.070	0.0	0.0	0.0	0.0	1.67e-03	5.59e-04	0.0	0.0
7	66.073	0.015	0.068	0.08	2.82e-02	1.03	0.3	0.0	0.0	0.0	0.0
8	114.197	0.009	0.064	1.36e-05	4.56e-06	46.83	15.7	0.0	0.0	0.0	0.0
9	114.371	0.009	0.064	1.13e-04	3.77e-05	101.89	34.1	0.0	0.0	0.0	0.0
10	231.474	0.004	0.061	0.01	4.14e-03	8.21e-04	2.75e-04	0.0	0.0	0.0	0.0
11	743.917	0.001	0.059	1.71e-05	5.74e-06	0.0	0.0	0.0	0.0	0.0	0.0
12	2.7685e+03	3.6121e-04	0.058	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta				165.85		149.76		149.76			
In percentuale				55.53		50.14		50.14			

CDC	Tipo	Sigla Id	Note
7	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.152 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.106 sec.
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	298.69	0.33	3.21	0.0	0.30	0.0	0.0	0.0	0.0	0.0
Risulta	298.69									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	9.447	0.106	0.130	133.57	44.7	3.40e-04	1.14e-04	0.0	0.0	0.0	0.0
2	12.642	0.079	0.112	0.0	0.0	0.0	0.0	148.85	49.8	0.0	0.0
3	12.661	0.079	0.112	0.0	0.0	0.0	0.0	0.89	0.3	0.0	0.0
4	15.120	0.066	0.103	0.0	0.0	0.0	0.0	0.02	5.48e-03	0.0	0.0
5	41.494	0.024	0.074	1.65e-03	5.53e-04	0.01	3.50e-03	0.0	0.0	0.0	0.0
6	55.875	0.018	0.070	0.0	0.0	0.0	0.0	1.67e-03	5.59e-04	0.0	0.0
7	66.294	0.015	0.068	0.09	2.88e-02	1.04	0.3	0.0	0.0	0.0	0.0
8	114.198	0.009	0.064	1.46e-05	4.89e-06	48.03	16.1	0.0	0.0	0.0	0.0
9	114.376	0.009	0.064	1.29e-04	4.33e-05	100.68	33.7	0.0	0.0	0.0	0.0
10	261.892	0.004	0.061	9.53e-03	3.19e-03	3.29e-04	1.10e-04	0.0	0.0	0.0	0.0
11	828.668	0.001	0.059	1.39e-05	4.65e-06	0.0	0.0	0.0	0.0	0.0	0.0
12	2.7685e+03	3.6121e-04	0.058	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta				133.67		149.76		149.76			
In percentuale				44.75		50.14		50.14			

CDC	Tipo	Sigla Id	Note
8	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.152 g
			angolo di ingresso: 90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.009 sec.
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	298.69	0.33	3.21	0.15	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	298.69									

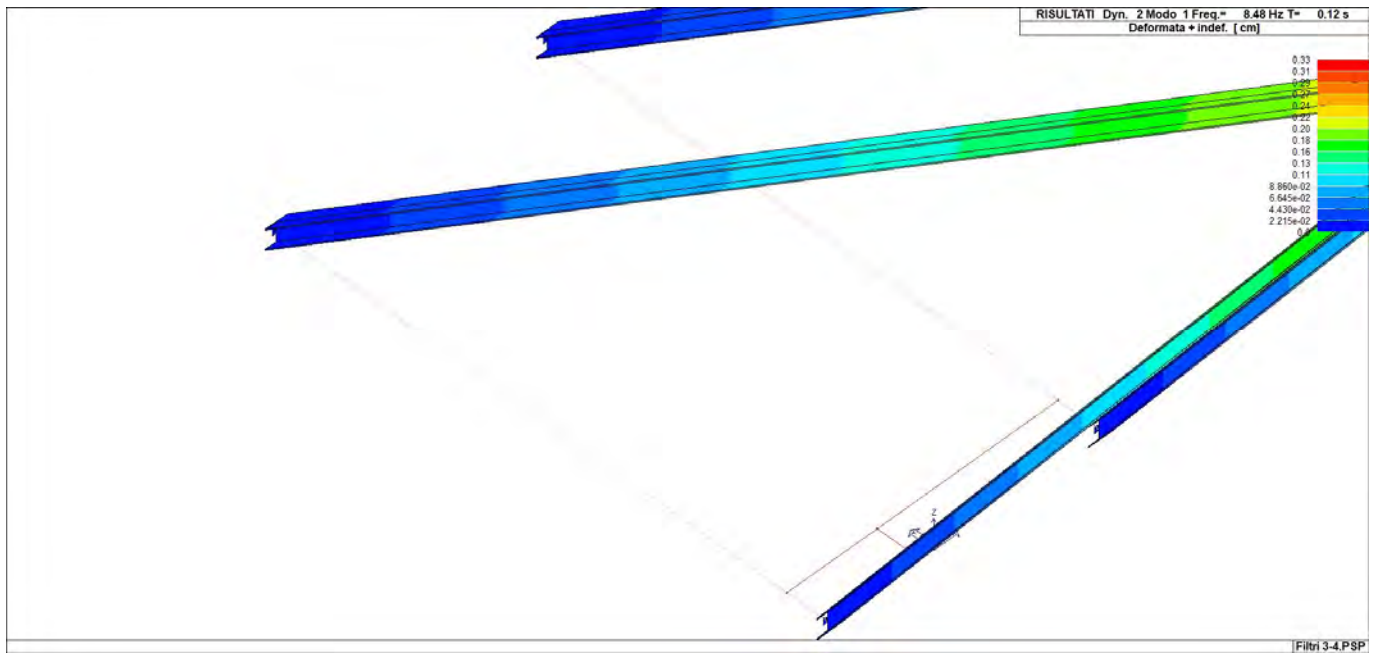
Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	8.926	0.112	0.135	149.67	50.1	3.06e-04	1.02e-04	0.0	0.0	0.0	0.0
2	12.642	0.079	0.112	0.0	0.0	0.0	0.0	148.85	49.8	0.0	0.0
3	12.661	0.079	0.112	0.0	0.0	0.0	0.0	0.89	0.3	0.0	0.0
4	15.120	0.066	0.103	0.0	0.0	0.0	0.0	0.02	5.48e-03	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
5	39.243	0.025	0.075	1.17e-03	3.92e-04	7.09e-03	2.37e-03	0.0	0.0	0.0	0.0
6	55.875	0.018	0.070	0.0	0.0	0.0	0.0	1.67e-03	5.59e-04	0.0	0.0
7	67.287	0.015	0.068	0.08	2.75e-02	0.99	0.3	0.0	0.0	0.0	0.0
8	108.882	0.009	0.064	2.48e-06	0.0	81.59	27.3	0.0	0.0	0.0	0.0
9	120.563	0.008	0.064	1.08e-04	3.61e-05	67.17	22.5	0.0	0.0	0.0	0.0
10	245.315	0.004	0.061	0.01	3.67e-03	7.97e-04	2.67e-04	0.0	0.0	0.0	0.0
11	782.873	0.001	0.059	1.55e-05	5.20e-06	0.0	0.0	0.0	0.0	0.0	0.0
12	2.8163e+03	3.5508e-04	0.058	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta				149.76		149.75		149.76			
In percentuale				50.14		50.14		50.14			

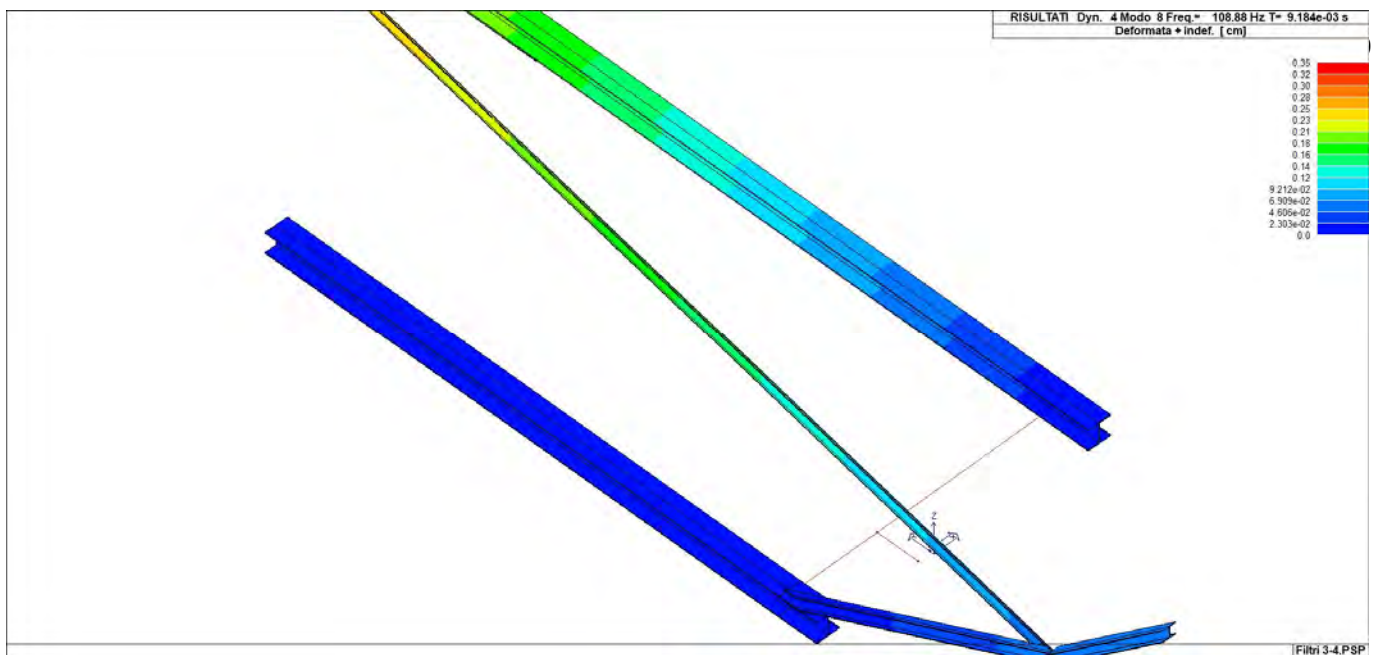
CDC	Tipo	Sigla Id	Note
9	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.152 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.009 sec.
			numero di modi considerati: 12
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
0.0	298.69	0.33	3.21	-0.15	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	298.69									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	8.926	0.112	0.135	149.66	50.1	2.98e-04	9.98e-05	0.0	0.0	0.0	0.0
2	12.642	0.079	0.112	0.0	0.0	0.0	0.0	148.85	49.8	0.0	0.0
3	12.661	0.079	0.112	0.0	0.0	0.0	0.0	0.89	0.3	0.0	0.0
4	15.120	0.066	0.103	0.0	0.0	0.0	0.0	0.02	5.48e-03	0.0	0.0
5	39.226	0.025	0.075	1.44e-03	4.81e-04	8.93e-03	2.99e-03	0.0	0.0	0.0	0.0
6	55.875	0.018	0.070	0.0	0.0	0.0	0.0	1.67e-03	5.59e-04	0.0	0.0
7	65.119	0.015	0.068	0.09	2.95e-02	1.09	0.4	0.0	0.0	0.0	0.0
8	109.039	0.009	0.064	1.59e-04	5.32e-05	81.17	27.2	0.0	0.0	0.0	0.0
9	120.390	0.008	0.064	2.74e-06	0.0	67.50	22.6	0.0	0.0	0.0	0.0
10	245.188	0.004	0.061	0.01	3.66e-03	3.48e-04	1.16e-04	0.0	0.0	0.0	0.0
11	782.872	0.001	0.059	1.55e-05	5.19e-06	0.0	0.0	0.0	0.0	0.0	0.0
12	2.7230e+03	3.6724e-04	0.058	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta				149.76		149.77		149.76			
In percentuale				50.14		50.14		50.14			



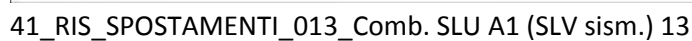
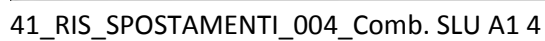
31_RIS_MODALOX_001_CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +) amplificata 100 volte

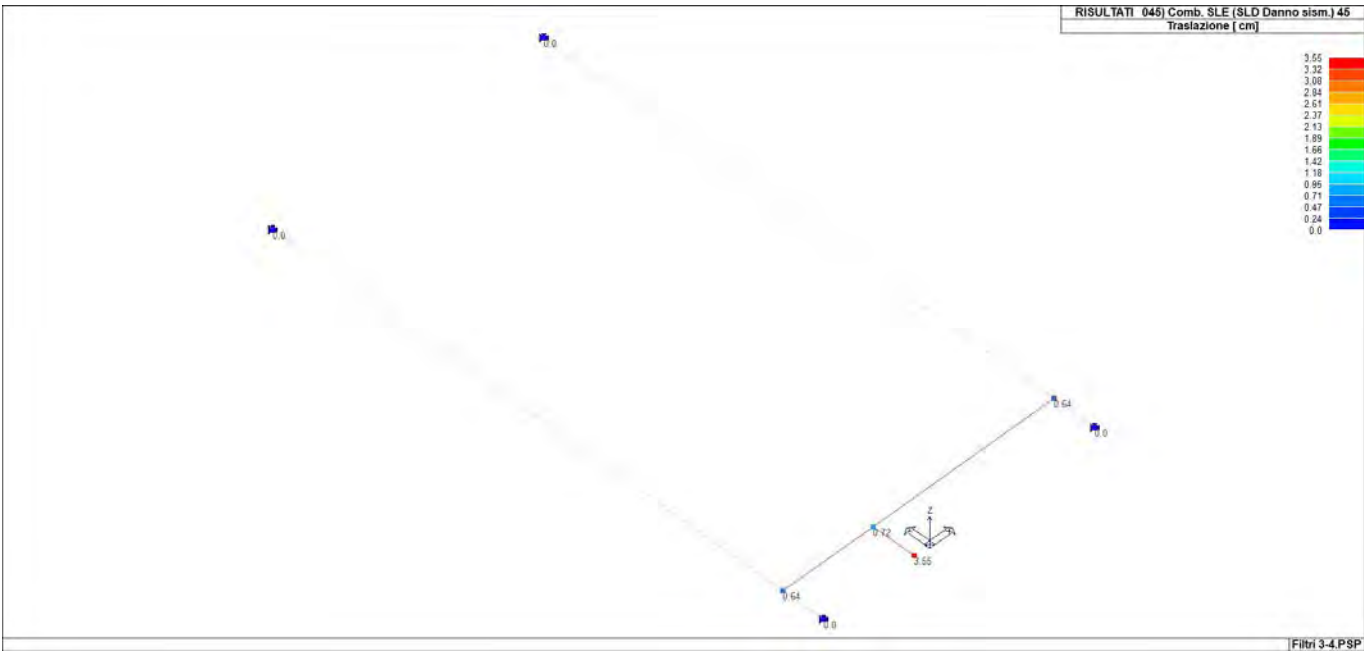


31_RIS_MODALOY_008_CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +) amplificata 100 volte

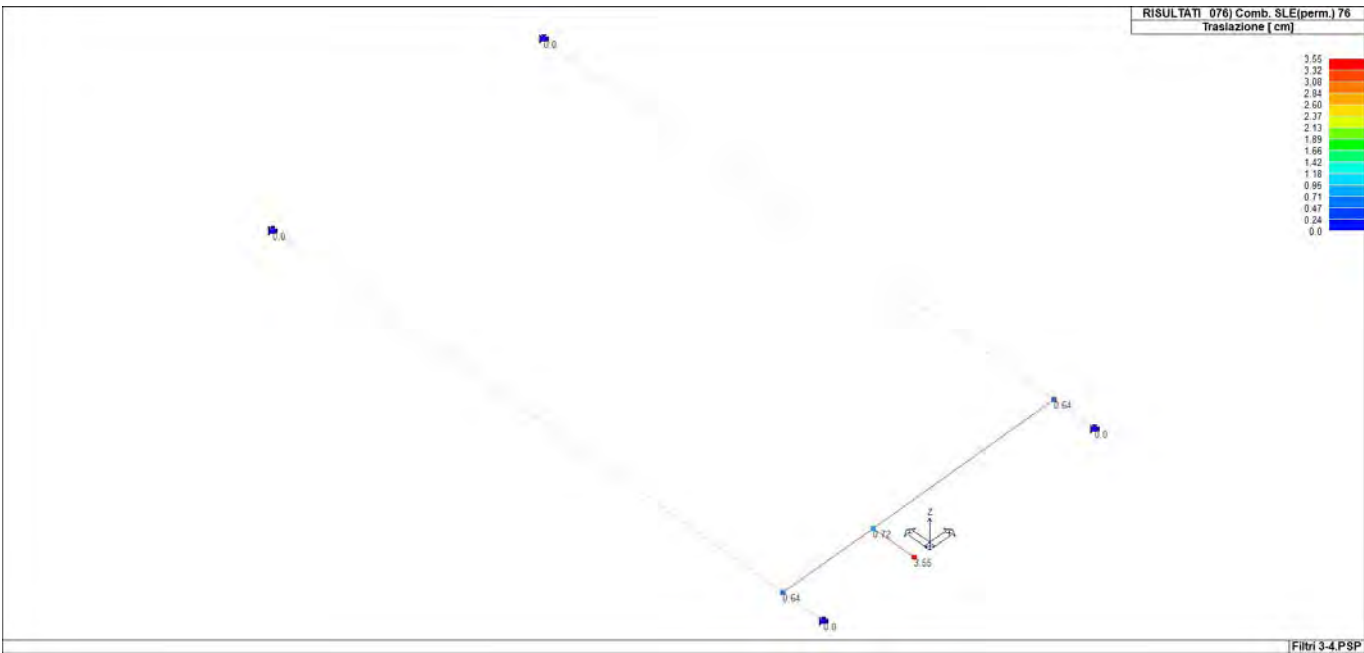
RISULTATI ANALISI ZONA FILTRO 3-4

Nodo	Cmb	Traslazione X cm	Traslazione Y cm	Traslazione Z cm	Rotazione X	Rotazione Y	Rotazione Z
1	1	0.0	0.0	-0.50	-0.01	8.45e-04	0.0
1	4	0.0	0.0	-0.98	-0.02	1.47e-03	0.0
1	9	0.08	1.05e-04	-0.64	-0.01	9.81e-04	-1.67e-03
1	10	0.08	-1.34e-05	-0.64	-0.01	9.81e-04	-1.67e-03
1	33	0.03	2.56e-04	-0.64	-0.01	9.81e-04	-4.98e-04
1	41	0.05	5.87e-05	-0.64	-0.01	9.81e-04	-9.53e-04
1	42	0.05	-6.40e-06	-0.64	-0.01	9.81e-04	-9.53e-04
1	65	0.01	1.41e-04	-0.64	-0.01	9.81e-04	-2.85e-04
1	73	0.0	0.0	-0.39	-8.56e-03	6.50e-04	0.0
1	76	0.0	0.0	-0.64	-0.01	9.81e-04	0.0
2	1	0.0	0.0	0.0	0.01	-7.20e-04	0.0
2	9	0.0	0.0	0.0	0.01	-8.25e-04	1.06e-03
2	41	0.0	0.0	0.0	0.01	-8.25e-04	6.05e-04
2	73	0.0	0.0	0.0	8.87e-03	-5.54e-04	0.0
3	1	0.0	0.0	-0.50	-0.01	-7.15e-04	0.0
3	4	0.0	0.0	-0.98	-0.02	-1.22e-03	0.0
3	9	0.08	2.33e-05	-0.64	-0.01	-8.19e-04	-1.67e-03
3	10	0.08	-1.23e-04	-0.64	-0.01	-8.19e-04	-1.67e-03
3	26	0.03	-2.59e-04	-0.64	-0.01	-8.19e-04	-5.02e-04
3	41	0.05	1.18e-05	-0.64	-0.01	-8.19e-04	-9.52e-04
3	42	0.05	-6.87e-05	-0.64	-0.01	-8.19e-04	-9.53e-04
3	58	0.01	-1.43e-04	-0.64	-0.01	-8.19e-04	-2.87e-04
3	73	0.0	0.0	-0.39	-8.55e-03	-5.50e-04	0.0
3	76	0.0	0.0	-0.64	-0.01	-8.19e-04	0.0
4	1	0.0	0.0	0.0	-0.01	-7.15e-04	0.0
4	9	0.0	0.0	0.0	-0.01	-8.19e-04	-1.99e-03
4	41	0.0	0.0	0.0	-0.01	-8.19e-04	-1.14e-03
4	73	0.0	0.0	0.0	-8.80e-03	-5.50e-04	0.0
5	1	0.0	0.0	-0.57	0.05	3.52e-04	0.0
5	4	0.0	0.0	-1.09	0.10	6.01e-04	0.0
5	9	0.08	-0.04	-0.72	0.06	4.03e-04	5.52e-04
5	10	0.08	-0.04	-0.72	0.06	4.03e-04	5.47e-04
5	14	0.08	-0.04	-0.72	0.06	4.03e-04	5.47e-04
5	41	0.05	-0.02	-0.72	0.06	4.03e-04	3.15e-04
5	42	0.05	-0.02	-0.72	0.06	4.03e-04	3.13e-04
5	46	0.05	-0.02	-0.72	0.06	4.03e-04	3.12e-04
5	73	0.0	0.0	-0.44	0.04	2.70e-04	0.0
5	76	0.0	0.0	-0.72	0.06	4.03e-04	0.0
6	1	0.0	0.0	-2.84	0.05	3.52e-04	0.0
6	4	0.0	0.0	-5.40	0.10	6.01e-04	0.0
6	9	0.11	-0.04	-3.55	0.06	4.03e-04	5.54e-04
6	13	0.11	-0.04	-3.55	0.06	4.03e-04	5.54e-04
6	14	0.11	-0.04	-3.55	0.06	4.03e-04	5.49e-04
6	41	0.06	-0.02	-3.55	0.06	4.03e-04	3.17e-04
6	45	0.06	-0.02	-3.55	0.06	4.03e-04	3.17e-04
6	46	0.06	-0.02	-3.55	0.06	4.03e-04	3.14e-04
6	73	0.0	0.0	-2.19	0.04	2.70e-04	0.0
6	76	0.0	0.0	-3.55	0.06	4.03e-04	0.0
7	1	0.0	0.0	0.0	0.01	8.40e-04	0.0
7	9	0.0	0.0	0.0	0.01	9.75e-04	1.06e-03
7	41	0.0	0.0	0.0	0.01	9.75e-04	6.05e-04
7	73	0.0	0.0	0.0	8.88e-03	6.46e-04	0.0
8	1	0.0	0.0	0.0	-0.01	8.45e-04	0.0
8	9	0.0	0.0	0.0	-0.01	9.81e-04	-1.99e-03
8	41	0.0	0.0	0.0	-0.01	9.81e-04	-1.14e-03
8	73	0.0	0.0	0.0	-8.82e-03	6.50e-04	0.0
Nodo		Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		0.0	-0.04	-5.40	-0.02	-1.22e-03	-1.99e-03
		0.11	2.56e-04	0.0	0.10	1.47e-03	1.06e-03





41_RIS_SPOSTAMENTI_045_Comb. SLE (SLD Danno sism.) 45

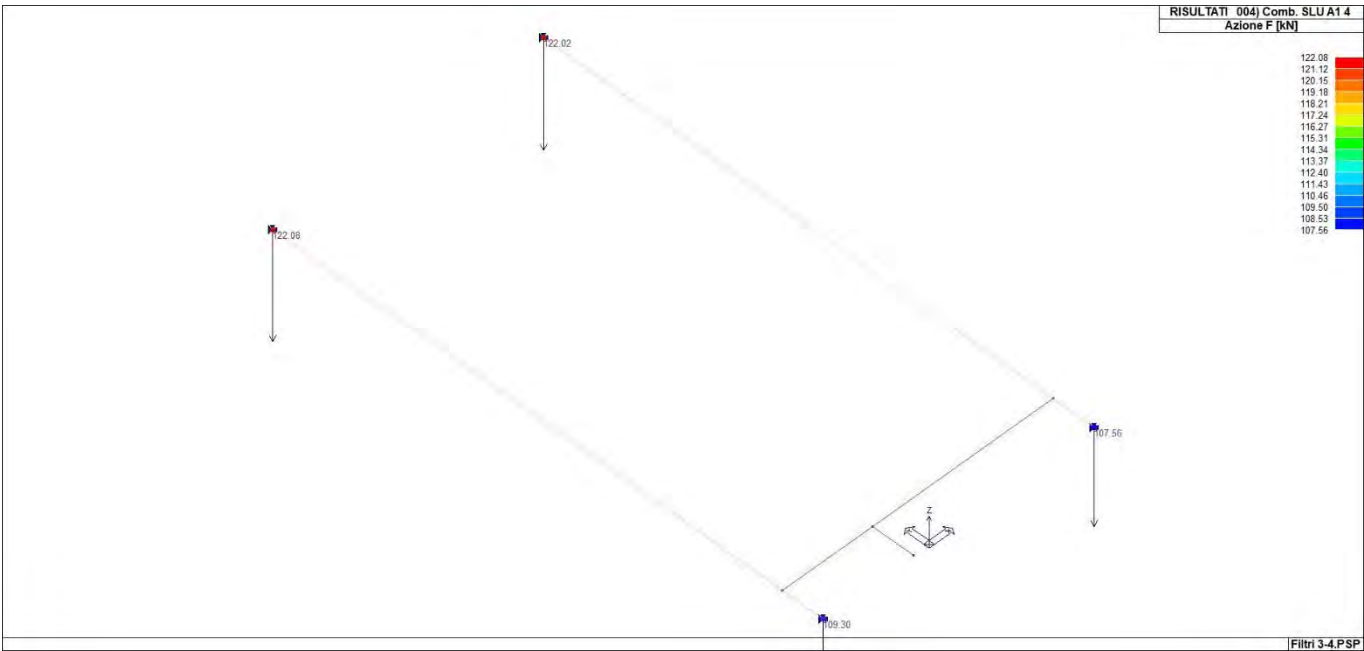


41_RIS_SPOSTAMENTI_076_Comb. SLE(perm.) 76

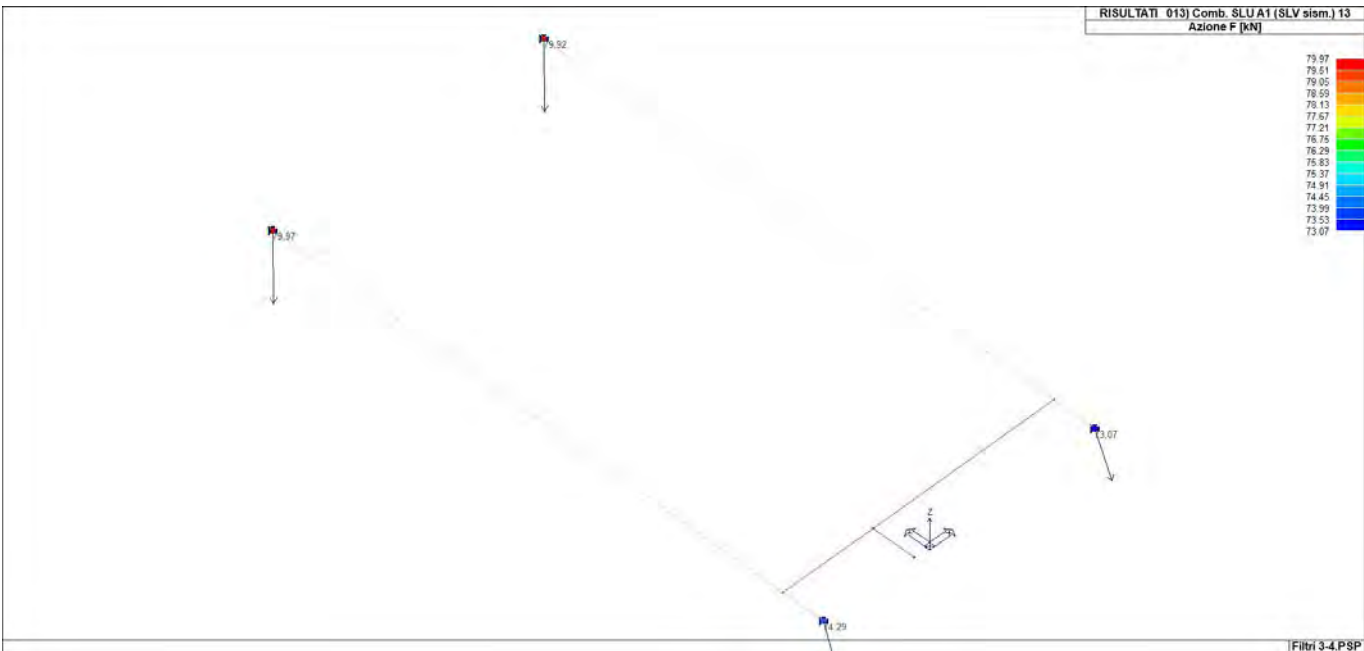
Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
		kN	kN	kN	kN m	kN m	kN m
2	1	0.0	0.0	-62.91	0.0	0.0	0.0
2	4	0.0	0.0	-122.02	0.0	0.0	0.0
2	5	0.0	0.0	-48.39	0.0	0.0	0.0

2	9	1.03	0.12	-79.92	0.0	0.0	0.0
2	41	0.59	0.06	-79.92	0.0	0.0	0.0
2	73	0.0	0.0	-48.39	0.0	0.0	0.0
2	76	0.0	0.0	-79.92	0.0	0.0	0.0
4	1	0.0	0.0	-55.83	0.0	0.0	0.0
4	4	0.0	0.0	-107.56	0.0	0.0	0.0
4	5	0.0	0.0	-42.94	0.0	0.0	0.0
4	9	19.08	0.85	-70.53	0.0	0.0	0.0
4	12	-19.08	-0.85	-70.53	0.0	0.0	0.0
4	41	10.90	0.43	-70.53	0.0	0.0	0.0
4	43	-10.92	2.49	-70.53	0.0	0.0	0.0
4	73	0.0	0.0	-42.94	0.0	0.0	0.0
4	76	0.0	0.0	-70.53	0.0	0.0	0.0
7	1	0.0	0.0	-62.95	0.0	0.0	0.0
7	4	0.0	0.0	-122.08	0.0	0.0	0.0
7	5	0.0	0.0	-48.42	0.0	0.0	0.0
7	9	1.03	0.36	-79.96	0.0	0.0	0.0
7	41	0.59	0.20	-79.96	0.0	0.0	0.0
7	73	0.0	0.0	-48.42	0.0	0.0	0.0
7	76	0.0	0.0	-79.96	0.0	0.0	0.0
8	1	0.0	0.0	-56.74	0.0	0.0	0.0
8	4	0.0	0.0	-109.30	0.0	0.0	0.0
8	5	0.0	0.0	-43.64	0.0	0.0	0.0
8	9	19.06	3.81	-71.68	0.0	0.0	0.0
8	11	-19.01	0.49	-71.68	0.0	0.0	0.0
8	41	10.89	2.13	-71.68	0.0	0.0	0.0
8	43	-10.86	0.23	-71.68	0.0	0.0	0.0
8	73	0.0	0.0	-43.64	0.0	0.0	0.0
8	76	0.0	0.0	-71.68	0.0	0.0	0.0
Nodo		Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
		-19.08	-0.85	-122.08	0.0	0.0	0.0
		19.08	3.81	-42.94	0.0	0.0	0.0

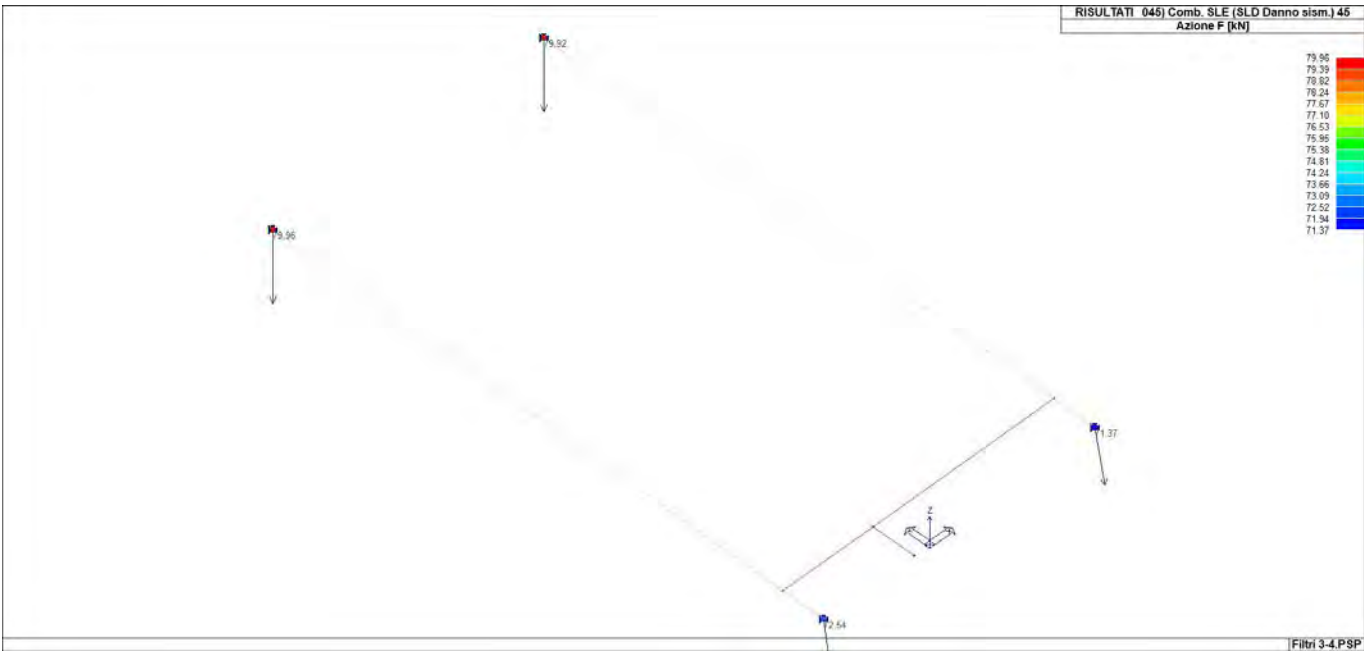
Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
		kN	kN	kN	kN m	kN m	kN m
2	4	0.0	0.0	-122.02	0.0	0.0	0.0
	5	0.0	0.0	-48.39	0.0	0.0	0.0
	1	0.0	0.0	-62.91	0.0	0.0	0.0
	1	0.0	0.0	-62.91	0.0	0.0	0.0
	1	0.0	0.0	-62.91	0.0	0.0	0.0
	1	0.0	0.0	-62.91	0.0	0.0	0.0
4	4	0.0	0.0	-107.56	0.0	0.0	0.0
	5	0.0	0.0	-42.94	0.0	0.0	0.0
	1	0.0	0.0	-55.83	0.0	0.0	0.0
	1	0.0	0.0	-55.83	0.0	0.0	0.0
	1	0.0	0.0	-55.83	0.0	0.0	0.0
7	4	0.0	0.0	-122.08	0.0	0.0	0.0
	5	0.0	0.0	-48.42	0.0	0.0	0.0
	1	0.0	0.0	-62.95	0.0	0.0	0.0
	1	0.0	0.0	-62.95	0.0	0.0	0.0
	1	0.0	0.0	-62.95	0.0	0.0	0.0
	1	0.0	0.0	-62.95	0.0	0.0	0.0
8	4	0.0	0.0	-109.30	0.0	0.0	0.0
	5	0.0	0.0	-43.64	0.0	0.0	0.0
	1	0.0	0.0	-56.74	0.0	0.0	0.0
	1	0.0	0.0	-56.74	0.0	0.0	0.0
	1	0.0	0.0	-56.74	0.0	0.0	0.0
	1	0.0	0.0	-56.74	0.0	0.0	0.0



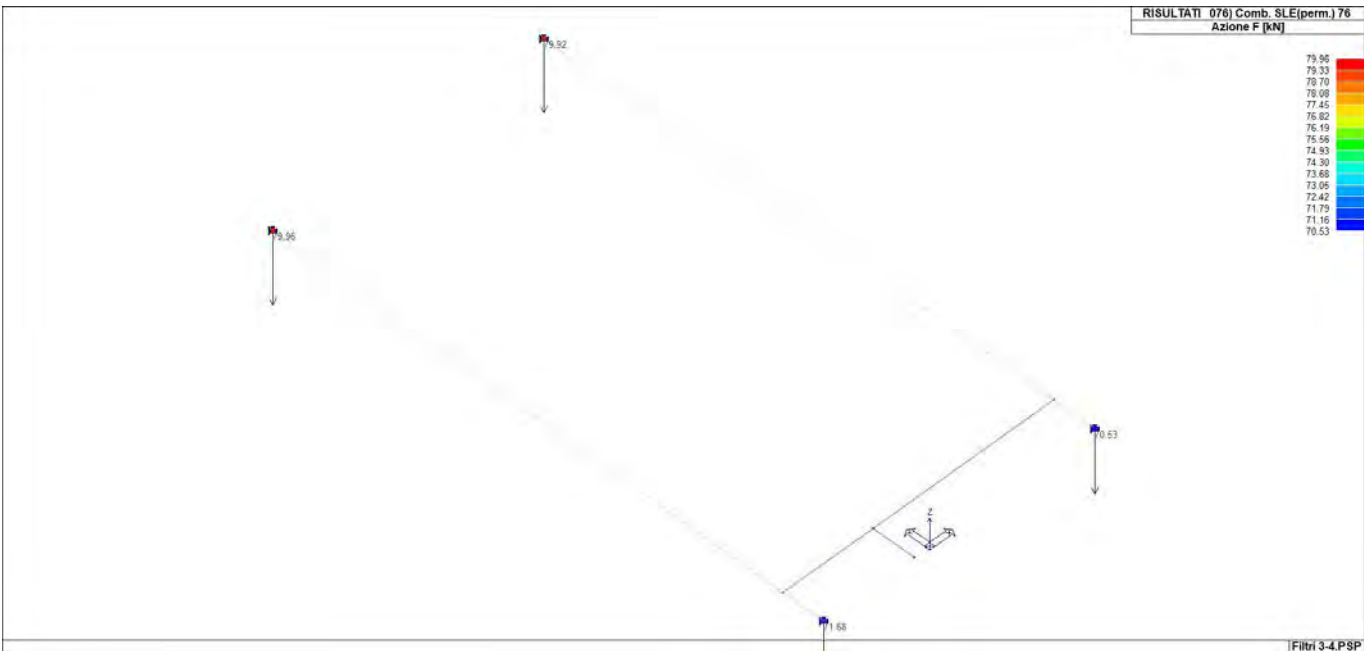
42_RIS_REAZIONI_004_Comb. SLU A1 4



42_RIS_REAZIONI_013_Comb. SLU A1 (SLV sism.) 13



42_RIS_REAZIONI_045_Comb. SLE (SLD Danno sism.) 45



42_RIS_REAZIONI_076_Comb. SLE(per.) 76

RISULTATI ELEMENTI TIPO TRAVE

Trave	Cmb	M3 mx/mn kN m	M2 mx/mn kN m	D 2 / D 3 m	Q 2 / Q 3 kN	Pos. cm	N kN	V 2 kN	V 3 kN	T kN m	M 2 kN m	M 3 kN m
1	1	0.0	0.0	0.02	-2.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-0.62	0.0	0.0	0.0	2.8	0.0	-0.17	0.0	0.0	0.0	-2.43e-03
						5.6	0.0	-0.35	0.0	0.0	0.0	-9.72e-03
						8.3	0.0	-0.52	0.0	0.0	0.0	-0.02
						11.1	0.0	-0.70	0.0	0.0	0.0	-0.04
						13.9	0.0	-0.87	0.0	0.0	0.0	-0.06
						16.7	0.0	-1.05	0.0	0.0	0.0	-0.09
						19.4	0.0	-1.22	0.0	0.0	0.0	-0.12
						22.2	0.0	-1.40	0.0	0.0	0.0	-0.16
						25.0	0.0	-1.57	0.0	0.0	0.0	-0.20
						27.8	0.0	-1.75	0.0	0.0	0.0	-0.24
						30.5	0.0	-1.92	0.0	0.0	0.0	-0.29
						33.3	0.0	-2.10	0.0	0.0	0.0	-0.35
						36.1	0.0	-2.27	0.0	0.0	0.0	-0.41
						38.9	0.0	-2.45	0.0	0.0	0.0	-0.48
						41.7	0.0	-2.62	0.0	0.0	0.0	-0.55
1	2	0.0	0.0	0.05	-5.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-1.18	0.0	0.0	0.0	2.8	0.0	-0.33	0.0	0.0	0.0	-4.63e-03
						5.6	0.0	-0.67	0.0	0.0	0.0	-0.02
						8.3	0.0	-1.00	0.0	0.0	0.0	-0.04
						11.1	0.0	-1.33	0.0	0.0	0.0	-0.07
						13.9	0.0	-1.67	0.0	0.0	0.0	-0.12
						16.7	0.0	-2.00	0.0	0.0	0.0	-0.17
						19.4	0.0	-2.33	0.0	0.0	0.0	-0.23
						22.2	0.0	-2.67	0.0	0.0	0.0	-0.30
						25.0	0.0	-3.00	0.0	0.0	0.0	-0.37
						27.8	0.0	-3.33	0.0	0.0	0.0	-0.46
						30.5	0.0	-3.67	0.0	0.0	0.0	-0.56
						33.3	0.0	-4.00	0.0	0.0	0.0	-0.67
						36.1	0.0	-4.33	0.0	0.0	0.0	-0.78
						38.9	0.0	-4.67	0.0	0.0	0.0	-0.91
						41.7	0.0	-5.00	0.0	0.0	0.0	-1.04
1	3	0.0	0.0	0.02	-2.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-0.62	0.0	0.0	0.0	2.8	0.0	-0.17	0.0	0.0	0.0	-2.43e-03
						5.6	0.0	-0.35	0.0	0.0	0.0	-9.72e-03
						8.3	0.0	-0.52	0.0	0.0	0.0	-0.02
						11.1	0.0	-0.70	0.0	0.0	0.0	-0.04
						13.9	0.0	-0.87	0.0	0.0	0.0	-0.06
						16.7	0.0	-1.05	0.0	0.0	0.0	-0.09
						19.4	0.0	-1.22	0.0	0.0	0.0	-0.12
						22.2	0.0	-1.40	0.0	0.0	0.0	-0.16
						25.0	0.0	-1.57	0.0	0.0	0.0	-0.20
						27.8	0.0	-1.75	0.0	0.0	0.0	-0.24
						30.5	0.0	-1.92	0.0	0.0	0.0	-0.29
						33.3	0.0	-2.10	0.0	0.0	0.0	-0.35
						36.1	0.0	-2.27	0.0	0.0	0.0	-0.41
						38.9	0.0	-2.45	0.0	0.0	0.0	-0.48
						41.7	0.0	-2.62	0.0	0.0	0.0	-0.55
1	4	0.0	0.0	0.04	-5.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-1.18	0.0	0.0	0.0	2.8	0.0	-0.33	0.0	0.0	0.0	-4.63e-03
						5.6	0.0	-0.67	0.0	0.0	0.0	-0.02
						8.3	0.0	-1.00	0.0	0.0	0.0	-0.04
						11.1	0.0	-1.33	0.0	0.0	0.0	-0.07
						13.9	0.0	-1.67	0.0	0.0	0.0	-0.12
						16.7	0.0	-2.00	0.0	0.0	0.0	-0.17
						19.4	0.0	-2.33	0.0	0.0	0.0	-0.23
						22.2	0.0	-2.67	0.0	0.0	0.0	-0.30
						25.0	0.0	-3.00	0.0	0.0	0.0	-0.37
						27.8	0.0	-3.33	0.0	0.0	0.0	-0.46
						30.5	0.0	-3.67	0.0	0.0	0.0	-0.56
						33.3	0.0	-4.00	0.0	0.0	0.0	-0.67
						36.1	0.0	-4.33	0.0	0.0	0.0	-0.78

						38.9	0.0	-4.67	0.0	0.0	0.0	-0.91
						41.7	0.0	-5.00	0.0	0.0	0.0	-1.04
						44.4	0.0	-5.33	0.0	0.0	0.0	-1.18
1	9	0.0	9.38e-03	0.03	-3.50	0.0	-9.38e-03	0.0	0.02	0.0	0.0	0.0
		-0.78	0.0	-2.46e-04	0.0	2.8	-9.38e-03	-0.22	0.02	0.0	5.86e-04	-3.04e-03
						5.6	-9.38e-03	-0.44	0.02	0.0	1.17e-03	-0.01
						8.3	-9.38e-03	-0.66	0.02	0.0	1.76e-03	-0.03
						11.1	-9.38e-03	-0.88	0.02	0.0	2.34e-03	-0.05
						13.9	-9.38e-03	-1.09	0.02	0.0	2.93e-03	-0.08
						16.7	-9.38e-03	-1.31	0.02	0.0	3.52e-03	-0.11
						19.4	-9.38e-03	-1.53	0.02	0.0	4.10e-03	-0.15
						22.2	-9.38e-03	-1.75	0.02	0.0	4.69e-03	-0.19
						25.0	-9.38e-03	-1.97	0.02	0.0	5.28e-03	-0.25
						27.8	-9.38e-03	-2.19	0.02	0.0	5.86e-03	-0.30
						30.5	-9.38e-03	-2.41	0.02	0.0	6.45e-03	-0.37
						33.3	-9.38e-03	-2.63	0.02	0.0	7.03e-03	-0.44
						36.1	-9.38e-03	-2.85	0.02	0.0	7.62e-03	-0.51
						38.9	-9.38e-03	-3.07	0.02	0.0	8.21e-03	-0.60
						41.7	-9.38e-03	-3.28	0.02	0.0	8.79e-03	-0.68
						44.4	-9.38e-03	-3.50	0.02	0.0	9.38e-03	-0.78
1	11	0.0	0.0	0.03	-3.50	0.0	3.59e-03	0.0	-0.02	0.0	0.0	0.0
		-0.78	-7.90e-03	2.43e-04	0.0	2.8	3.59e-03	-0.22	-0.02	0.0	-4.93e-04	-3.04e-03
						5.6	3.59e-03	-0.44	-0.02	0.0	-9.87e-04	-0.01
						8.3	3.59e-03	-0.66	-0.02	0.0	-1.48e-03	-0.03
						11.1	3.59e-03	-0.88	-0.02	0.0	-1.97e-03	-0.05
						13.9	3.59e-03	-1.09	-0.02	0.0	-2.47e-03	-0.08
						16.7	3.59e-03	-1.31	-0.02	0.0	-2.96e-03	-0.11
						19.4	3.59e-03	-1.53	-0.02	0.0	-3.45e-03	-0.15
						22.2	3.59e-03	-1.75	-0.02	0.0	-3.95e-03	-0.19
						25.0	3.59e-03	-1.97	-0.02	0.0	-4.44e-03	-0.25
						27.8	3.59e-03	-2.19	-0.02	0.0	-4.93e-03	-0.30
						30.5	3.59e-03	-2.41	-0.02	0.0	-5.43e-03	-0.37
						33.3	3.59e-03	-2.63	-0.02	0.0	-5.92e-03	-0.44
						36.1	3.59e-03	-2.85	-0.02	0.0	-6.42e-03	-0.51
						38.9	3.59e-03	-3.07	-0.02	0.0	-6.91e-03	-0.60
						41.7	3.59e-03	-3.28	-0.02	0.0	-7.40e-03	-0.68
						44.4	3.59e-03	-3.50	-0.02	0.0	-7.90e-03	-0.78
1	12	0.0	0.0	0.03	-3.50	0.0	9.38e-03	0.0	-0.02	0.0	0.0	0.0
		-0.78	-9.38e-03	2.46e-04	0.0	2.8	9.38e-03	-0.22	-0.02	0.0	-5.86e-04	-3.04e-03
						5.6	9.38e-03	-0.44	-0.02	0.0	-1.17e-03	-0.01
						8.3	9.38e-03	-0.66	-0.02	0.0	-1.76e-03	-0.03
						11.1	9.38e-03	-0.88	-0.02	0.0	-2.34e-03	-0.05
						13.9	9.38e-03	-1.09	-0.02	0.0	-2.93e-03	-0.08
						16.7	9.38e-03	-1.31	-0.02	0.0	-3.52e-03	-0.11
						19.4	9.38e-03	-1.53	-0.02	0.0	-4.10e-03	-0.15
						22.2	9.38e-03	-1.75	-0.02	0.0	-4.69e-03	-0.19
						25.0	9.38e-03	-1.97	-0.02	0.0	-5.28e-03	-0.25
						27.8	9.38e-03	-2.19	-0.02	0.0	-5.86e-03	-0.30
						30.5	9.38e-03	-2.41	-0.02	0.0	-6.45e-03	-0.37
						33.3	9.38e-03	-2.63	-0.02	0.0	-7.03e-03	-0.44
						36.1	9.38e-03	-2.85	-0.02	0.0	-7.62e-03	-0.51
						38.9	9.38e-03	-3.07	-0.02	0.0	-8.21e-03	-0.60
						41.7	9.38e-03	-3.28	-0.02	0.0	-8.79e-03	-0.68
						44.4	9.38e-03	-3.50	-0.02	0.0	-9.38e-03	-0.78
1	33	0.0	5.02e-03	0.03	-3.50	0.0	-0.01	0.0	3.61e-04	0.0	0.0	0.0
		-0.78	0.0	-7.88e-05	0.0	2.8	-0.01	-0.22	3.61e-04	0.0	3.14e-04	-3.04e-03
						5.6	-0.01	-0.44	3.61e-04	0.0	6.28e-04	-0.01
						8.3	-0.01	-0.66	3.61e-04	0.0	9.42e-04	-0.03
						11.1	-0.01	-0.88	3.61e-04	0.0	1.26e-03	-0.05
						13.9	-0.01	-1.09	3.61e-04	0.0	1.57e-03	-0.08
						16.7	-0.01	-1.31	3.61e-04	0.0	1.88e-03	-0.11
						19.4	-0.01	-1.53	3.61e-04	0.0	2.20e-03	-0.15
						22.2	-0.01	-1.75	3.61e-04	0.0	2.51e-03	-0.19
						25.0	-0.01	-1.97	3.61e-04	0.0	2.83e-03	-0.25
						27.8	-0.01	-2.19	3.61e-04	0.0	3.14e-03	-0.30
						30.5	-0.01	-2.41	3.61e-04	0.0	3.45e-03	-0.37
						33.3	-0.01	-2.63	3.61e-04	0.0	3.77e-03	-0.44
						36.1	-0.01	-2.85	3.61e-04	0.0	4.08e-03	-0.51
						38.9	-0.01	-3.07	3.61e-04	0.0	4.39e-03	-0.60
						41.7	-0.01	-3.28	3.61e-04	0.0	4.71e-03	-0.68
						44.4	-0.01	-3.50	3.61e-04	0.0	5.02e-03	-0.78
1	36	0.0	0.0	0.03	-3.50	0.0	0.01	0.0	-3.61e-04	0.0	0.0	0.0

		-0.78	-5.02e-03	7.88e-05	0.0	2.8	0.01	-0.22	-3.61e-04	0.0	-3.14e-04	-3.04e-03
						5.6	0.01	-0.44	-3.61e-04	0.0	-6.28e-04	-0.01
						8.3	0.01	-0.66	-3.61e-04	0.0	-9.42e-04	-0.03
						11.1	0.01	-0.88	-3.61e-04	0.0	-1.26e-03	-0.05
						13.9	0.01	-1.09	-3.61e-04	0.0	-1.57e-03	-0.08
						16.7	0.01	-1.31	-3.61e-04	0.0	-1.88e-03	-0.11
						19.4	0.01	-1.53	-3.61e-04	0.0	-2.20e-03	-0.15
						22.2	0.01	-1.75	-3.61e-04	0.0	-2.51e-03	-0.19
						25.0	0.01	-1.97	-3.61e-04	0.0	-2.83e-03	-0.25
						27.8	0.01	-2.19	-3.61e-04	0.0	-3.14e-03	-0.30
						30.5	0.01	-2.41	-3.61e-04	0.0	-3.45e-03	-0.37
						33.3	0.01	-2.63	-3.61e-04	0.0	-3.77e-03	-0.44
						36.1	0.01	-2.85	-3.61e-04	0.0	-4.08e-03	-0.51
						38.9	0.01	-3.07	-3.61e-04	0.0	-4.39e-03	-0.60
						41.7	0.01	-3.28	-3.61e-04	0.0	-4.71e-03	-0.68
						44.4	0.01	-3.50	-3.61e-04	0.0	-5.02e-03	-0.78
1	41	0.0	5.34e-03	0.03	-3.50	0.0	-5.29e-03	0.0	0.01	0.0	0.0	0.0
		-0.78	0.0	-1.41e-04	0.0	2.8	-5.29e-03	-0.22	0.01	0.0	3.34e-04	-3.04e-03
						5.6	-5.29e-03	-0.44	0.01	0.0	6.67e-04	-0.01
						8.3	-5.29e-03	-0.66	0.01	0.0	1.00e-03	-0.03
						11.1	-5.29e-03	-0.88	0.01	0.0	1.33e-03	-0.05
						13.9	-5.29e-03	-1.09	0.01	0.0	1.67e-03	-0.08
						16.7	-5.29e-03	-1.31	0.01	0.0	2.00e-03	-0.11
						19.4	-5.29e-03	-1.53	0.01	0.0	2.34e-03	-0.15
						22.2	-5.29e-03	-1.75	0.01	0.0	2.67e-03	-0.19
						25.0	-5.29e-03	-1.97	0.01	0.0	3.00e-03	-0.25
						27.8	-5.29e-03	-2.19	0.01	0.0	3.34e-03	-0.30
						30.5	-5.29e-03	-2.41	0.01	0.0	3.67e-03	-0.37
						33.3	-5.29e-03	-2.63	0.01	0.0	4.00e-03	-0.44
						36.1	-5.29e-03	-2.85	0.01	0.0	4.34e-03	-0.51
						38.9	-5.29e-03	-3.07	0.01	0.0	4.67e-03	-0.60
						41.7	-5.29e-03	-3.28	0.01	0.0	5.01e-03	-0.68
						44.4	-5.29e-03	-3.50	0.01	0.0	5.34e-03	-0.78
1	43	0.0	0.0	0.03	-3.50	0.0	2.08e-03	0.0	-0.01	0.0	0.0	0.0
		-0.78	-4.52e-03	1.39e-04	0.0	2.8	2.08e-03	-0.22	-0.01	0.0	-2.83e-04	-3.04e-03
						5.6	2.08e-03	-0.44	-0.01	0.0	-5.65e-04	-0.01
						8.3	2.08e-03	-0.66	-0.01	0.0	-8.48e-04	-0.03
						11.1	2.08e-03	-0.88	-0.01	0.0	-1.13e-03	-0.05
						13.9	2.08e-03	-1.09	-0.01	0.0	-1.41e-03	-0.08
						16.7	2.08e-03	-1.31	-0.01	0.0	-1.70e-03	-0.11
						19.4	2.08e-03	-1.53	-0.01	0.0	-1.98e-03	-0.15
						22.2	2.08e-03	-1.75	-0.01	0.0	-2.26e-03	-0.19
						25.0	2.08e-03	-1.97	-0.01	0.0	-2.54e-03	-0.25
						27.8	2.08e-03	-2.19	-0.01	0.0	-2.83e-03	-0.30
						30.5	2.08e-03	-2.41	-0.01	0.0	-3.11e-03	-0.37
						33.3	2.08e-03	-2.63	-0.01	0.0	-3.39e-03	-0.44
						36.1	2.08e-03	-2.85	-0.01	0.0	-3.67e-03	-0.51
						38.9	2.08e-03	-3.07	-0.01	0.0	-3.96e-03	-0.60
						41.7	2.08e-03	-3.28	-0.01	0.0	-4.24e-03	-0.68
						44.4	2.08e-03	-3.50	-0.01	0.0	-4.52e-03	-0.78
1	44	0.0	0.0	0.03	-3.50	0.0	5.29e-03	0.0	-0.01	0.0	0.0	0.0
		-0.78	-5.34e-03	1.41e-04	0.0	2.8	5.29e-03	-0.22	-0.01	0.0	-3.34e-04	-3.04e-03
						5.6	5.29e-03	-0.44	-0.01	0.0	-6.67e-04	-0.01
						8.3	5.29e-03	-0.66	-0.01	0.0	-1.00e-03	-0.03
						11.1	5.29e-03	-0.88	-0.01	0.0	-1.33e-03	-0.05
						13.9	5.29e-03	-1.09	-0.01	0.0	-1.67e-03	-0.08
						16.7	5.29e-03	-1.31	-0.01	0.0	-2.00e-03	-0.11
						19.4	5.29e-03	-1.53	-0.01	0.0	-2.34e-03	-0.15
						22.2	5.29e-03	-1.75	-0.01	0.0	-2.67e-03	-0.19
						25.0	5.29e-03	-1.97	-0.01	0.0	-3.00e-03	-0.25
						27.8	5.29e-03	-2.19	-0.01	0.0	-3.34e-03	-0.30
						30.5	5.29e-03	-2.41	-0.01	0.0	-3.67e-03	-0.37
						33.3	5.29e-03	-2.63	-0.01	0.0	-4.00e-03	-0.44
						36.1	5.29e-03	-2.85	-0.01	0.0	-4.34e-03	-0.51
						38.9	5.29e-03	-3.07	-0.01	0.0	-4.67e-03	-0.60
						41.7	5.29e-03	-3.28	-0.01	0.0	-5.01e-03	-0.68
						44.4	5.29e-03	-3.50	-0.01	0.0	-5.34e-03	-0.78
1	65	0.0	2.82e-03	0.03	-3.50	0.0	-6.94e-03	0.0	3.10e-04	0.0	0.0	0.0
		-0.78	0.0	-4.50e-05	0.0	2.8	-6.94e-03	-0.22	3.10e-04	0.0	1.76e-04	-3.04e-03
						5.6	-6.94e-03	-0.44	3.10e-04	0.0	3.53e-04	-0.01
						8.3	-6.94e-03	-0.66	3.10e-04	0.0	5.29e-04	-0.03
						11.1	-6.94e-03	-0.88	3.10e-04	0.0	7.05e-04	-0.05

						13.9	-6.94e-03	-1.09	3.10e-04	0.0	8.81e-04	-0.08
						16.7	-6.94e-03	-1.31	3.10e-04	0.0	1.06e-03	-0.11
						19.4	-6.94e-03	-1.53	3.10e-04	0.0	1.23e-03	-0.15
						22.2	-6.94e-03	-1.75	3.10e-04	0.0	1.41e-03	-0.19
						25.0	-6.94e-03	-1.97	3.10e-04	0.0	1.59e-03	-0.25
						27.8	-6.94e-03	-2.19	3.10e-04	0.0	1.76e-03	-0.30
						30.5	-6.94e-03	-2.41	3.10e-04	0.0	1.94e-03	-0.37
						33.3	-6.94e-03	-2.63	3.10e-04	0.0	2.12e-03	-0.44
						36.1	-6.94e-03	-2.85	3.10e-04	0.0	2.29e-03	-0.51
						38.9	-6.94e-03	-3.07	3.10e-04	0.0	2.47e-03	-0.60
						41.7	-6.94e-03	-3.28	3.10e-04	0.0	2.64e-03	-0.68
						44.4	-6.94e-03	-3.50	3.10e-04	0.0	2.82e-03	-0.78
1	68	0.0	0.0	0.03	-3.50	0.0	6.94e-03	0.0	-3.10e-04	0.0	0.0	0.0
		-0.78	-2.82e-03	4.50e-05	0.0	2.8	6.94e-03	-0.22	-3.10e-04	0.0	-1.76e-04	-3.04e-03
						5.6	6.94e-03	-0.44	-3.10e-04	0.0	-3.53e-04	-0.01
						8.3	6.94e-03	-0.66	-3.10e-04	0.0	-5.29e-04	-0.03
						11.1	6.94e-03	-0.88	-3.10e-04	0.0	-7.05e-04	-0.05
						13.9	6.94e-03	-1.09	-3.10e-04	0.0	-8.81e-04	-0.08
						16.7	6.94e-03	-1.31	-3.10e-04	0.0	-1.06e-03	-0.11
						19.4	6.94e-03	-1.53	-3.10e-04	0.0	-1.23e-03	-0.15
						22.2	6.94e-03	-1.75	-3.10e-04	0.0	-1.41e-03	-0.19
						25.0	6.94e-03	-1.97	-3.10e-04	0.0	-1.59e-03	-0.25
						27.8	6.94e-03	-2.19	-3.10e-04	0.0	-1.76e-03	-0.30
						30.5	6.94e-03	-2.41	-3.10e-04	0.0	-1.94e-03	-0.37
						33.3	6.94e-03	-2.63	-3.10e-04	0.0	-2.12e-03	-0.44
						36.1	6.94e-03	-2.85	-3.10e-04	0.0	-2.29e-03	-0.51
						38.9	6.94e-03	-3.07	-3.10e-04	0.0	-2.47e-03	-0.60
						41.7	6.94e-03	-3.28	-3.10e-04	0.0	-2.64e-03	-0.68
						44.4	6.94e-03	-3.50	-3.10e-04	0.0	-2.82e-03	-0.78
1	73	0.0	0.0	0.02	-2.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-0.48	0.0	0.0	0.0	2.8	0.0	-0.13	0.0	0.0	0.0	-1.87e-03
						5.6	0.0	-0.27	0.0	0.0	0.0	-7.47e-03
						8.3	0.0	-0.40	0.0	0.0	0.0	-0.02
						11.1	0.0	-0.54	0.0	0.0	0.0	-0.03
						13.9	0.0	-0.67	0.0	0.0	0.0	-0.05
						16.7	0.0	-0.81	0.0	0.0	0.0	-0.07
						19.4	0.0	-0.94	0.0	0.0	0.0	-0.09
						22.2	0.0	-1.08	0.0	0.0	0.0	-0.12
						25.0	0.0	-1.21	0.0	0.0	0.0	-0.15
						27.8	0.0	-1.35	0.0	0.0	0.0	-0.19
						30.5	0.0	-1.48	0.0	0.0	0.0	-0.23
						33.3	0.0	-1.61	0.0	0.0	0.0	-0.27
						36.1	0.0	-1.75	0.0	0.0	0.0	-0.32
						38.9	0.0	-1.88	0.0	0.0	0.0	-0.37
						41.7	0.0	-2.02	0.0	0.0	0.0	-0.42
						44.4	0.0	-2.15	0.0	0.0	0.0	-0.48
1	74	0.0	0.0	0.03	-3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-0.78	0.0	0.0	0.0	2.8	0.0	-0.22	0.0	0.0	0.0	-3.04e-03
						5.6	0.0	-0.44	0.0	0.0	0.0	-0.01
						8.3	0.0	-0.66	0.0	0.0	0.0	-0.03
						11.1	0.0	-0.88	0.0	0.0	0.0	-0.05
						13.9	0.0	-1.09	0.0	0.0	0.0	-0.08
						16.7	0.0	-1.31	0.0	0.0	0.0	-0.11
						19.4	0.0	-1.53	0.0	0.0	0.0	-0.15
						22.2	0.0	-1.75	0.0	0.0	0.0	-0.19
						25.0	0.0	-1.97	0.0	0.0	0.0	-0.25
						27.8	0.0	-2.19	0.0	0.0	0.0	-0.30
						30.5	0.0	-2.41	0.0	0.0	0.0	-0.37
						33.3	0.0	-2.63	0.0	0.0	0.0	-0.44
						36.1	0.0	-2.85	0.0	0.0	0.0	-0.51
						38.9	0.0	-3.07	0.0	0.0	0.0	-0.60
						41.7	0.0	-3.28	0.0	0.0	0.0	-0.68
						44.4	0.0	-3.50	0.0	0.0	0.0	-0.78
1	75	0.0	0.0	0.02	-2.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-0.48	0.0	0.0	0.0	2.8	0.0	-0.13	0.0	0.0	0.0	-1.87e-03
						5.6	0.0	-0.27	0.0	0.0	0.0	-7.47e-03
						8.3	0.0	-0.40	0.0	0.0	0.0	-0.02
						11.1	0.0	-0.54	0.0	0.0	0.0	-0.03
						13.9	0.0	-0.67	0.0	0.0	0.0	-0.05
						16.7	0.0	-0.81	0.0	0.0	0.0	-0.07
						19.4	0.0	-0.94	0.0	0.0	0.0	-0.09
						22.2	0.0	-1.08	0.0	0.0	0.0	-0.12

						25.0	0.0	-1.21	0.0	0.0	0.0	-0.15
						27.8	0.0	-1.35	0.0	0.0	0.0	-0.19
						30.5	0.0	-1.48	0.0	0.0	0.0	-0.23
						33.3	0.0	-1.61	0.0	0.0	0.0	-0.27
						36.1	0.0	-1.75	0.0	0.0	0.0	-0.32
						38.9	0.0	-1.88	0.0	0.0	0.0	-0.37
						41.7	0.0	-2.02	0.0	0.0	0.0	-0.42
						44.4	0.0	-2.15	0.0	0.0	0.0	-0.48
1	76	0.0	0.0	0.03	-3.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-0.78	0.0	0.0	0.0	2.8	0.0	-0.22	0.0	0.0	0.0	-3.04e-03
						5.6	0.0	-0.44	0.0	0.0	0.0	-0.01
						8.3	0.0	-0.66	0.0	0.0	0.0	-0.03
						11.1	0.0	-0.88	0.0	0.0	0.0	-0.05
						13.9	0.0	-1.09	0.0	0.0	0.0	-0.08
						16.7	0.0	-1.31	0.0	0.0	0.0	-0.11
						19.4	0.0	-1.53	0.0	0.0	0.0	-0.15
						22.2	0.0	-1.75	0.0	0.0	0.0	-0.19
						25.0	0.0	-1.97	0.0	0.0	0.0	-0.25
						27.8	0.0	-2.19	0.0	0.0	0.0	-0.30
						30.5	0.0	-2.41	0.0	0.0	0.0	-0.37
						33.3	0.0	-2.63	0.0	0.0	0.0	-0.44
						36.1	0.0	-2.85	0.0	0.0	0.0	-0.51
						38.9	0.0	-3.07	0.0	0.0	0.0	-0.60
						41.7	0.0	-3.28	0.0	0.0	0.0	-0.68
						44.4	0.0	-3.50	0.0	0.0	0.0	-0.78
2	1	93.77	0.0	-0.02	-117.00	0.0	0.0	54.08	0.0	0.0	0.0	24.52
		0.0	0.0	0.0	0.0	34.7	0.0	46.77	0.0	0.0	0.0	42.03
						69.4	0.0	39.46	0.0	0.0	0.0	57.00
						104.2	0.0	32.15	0.0	0.0	0.0	69.44
						138.9	0.0	24.83	0.0	0.0	0.0	79.33
						173.6	0.0	17.52	0.0	0.0	0.0	86.68
						208.3	0.0	10.21	0.0	0.0	0.0	91.50
						243.1	0.0	2.90	0.0	0.0	0.0	93.77
						277.8	0.0	-4.41	0.0	0.0	0.0	93.51
						312.5	0.0	-11.73	0.0	0.0	0.0	90.71
						347.2	0.0	-19.04	0.0	0.0	0.0	85.37
						382.0	0.0	-26.35	0.0	0.0	0.0	77.40
						416.7	0.0	-33.66	0.0	0.0	0.0	67.07
						451.4	0.0	-40.97	0.0	0.0	0.0	54.11
						486.1	0.0	-48.29	0.0	0.0	0.0	38.61
						520.8	0.0	-55.60	0.0	0.0	0.0	20.58
						555.6	0.0	-62.91	0.0	0.0	0.0	0.0
2	4	181.80	0.0	-0.03	-227.00	0.0	0.0	104.98	0.0	0.0	0.0	47.32
		0.0	0.0	0.0	0.0	34.7	0.0	90.79	0.0	0.0	0.0	81.31
						69.4	0.0	76.61	0.0	0.0	0.0	110.38
						104.2	0.0	62.42	0.0	0.0	0.0	134.51
						138.9	0.0	48.23	0.0	0.0	0.0	153.72
						173.6	0.0	34.04	0.0	0.0	0.0	168.01
						208.3	0.0	19.86	0.0	0.0	0.0	177.36
						243.1	0.0	5.67	0.0	0.0	0.0	181.80
						277.8	0.0	-8.52	0.0	0.0	0.0	181.30
						312.5	0.0	-22.71	0.0	0.0	0.0	175.88
						347.2	0.0	-36.89	0.0	0.0	0.0	165.53
						382.0	0.0	-51.08	0.0	0.0	0.0	150.26
						416.7	0.0	-65.27	0.0	0.0	0.0	130.06
						451.4	0.0	-79.45	0.0	0.0	0.0	104.93
						486.1	0.0	-93.64	0.0	0.0	0.0	74.88
						520.8	0.0	-107.83	0.0	0.0	0.0	39.90
						555.6	0.0	-122.02	0.0	0.0	0.0	0.0
2	5	72.13	0.0	-0.01	-90.00	0.0	0.0	41.60	0.0	0.0	0.0	18.86
		0.0	0.0	0.0	0.0	34.7	0.0	35.98	0.0	0.0	0.0	32.33
						69.4	0.0	30.35	0.0	0.0	0.0	43.85
						104.2	0.0	24.73	0.0	0.0	0.0	53.41
						138.9	0.0	19.10	0.0	0.0	0.0	61.02
						173.6	0.0	13.48	0.0	0.0	0.0	66.68
						208.3	0.0	7.85	0.0	0.0	0.0	70.38
						243.1	0.0	2.23	0.0	0.0	0.0	72.13
						277.8	0.0	-3.40	0.0	0.0	0.0	71.93
						312.5	0.0	-9.02	0.0	0.0	0.0	69.77
						347.2	0.0	-14.64	0.0	0.0	0.0	65.67
						382.0	0.0	-20.27	0.0	0.0	0.0	59.60
						416.7	0.0	-25.89	0.0	0.0	0.0	51.59

						451.4	0.0	-31.52	0.0	0.0	0.0	41.62
						486.1	0.0	-37.14	0.0	0.0	0.0	29.70
						520.8	0.0	-42.77	0.0	0.0	0.0	15.83
						555.6	0.0	-48.39	0.0	0.0	0.0	0.0
2	9	119.08	0.0	-0.02	-148.66	0.0	-0.12	68.75	1.03	0.0	-5.71	31.02
		0.0	-5.71	1.61e-03	0.0	34.7	-0.12	59.46	1.03	0.0	-5.35	53.28
						69.4	-0.12	50.16	1.03	0.0	-4.99	72.31
						104.2	-0.12	40.87	1.03	0.0	-4.64	88.12
						138.9	-0.12	31.58	1.03	0.0	-4.28	100.70
						173.6	-0.12	22.29	1.03	0.0	-3.92	110.05
						208.3	-0.12	13.00	1.03	0.0	-3.57	116.18
						243.1	-0.12	3.71	1.03	0.0	-3.21	119.08
						277.8	-0.12	-5.58	1.03	0.0	-2.85	118.75
						312.5	-0.12	-14.88	1.03	0.0	-2.50	115.20
						347.2	-0.12	-24.17	1.03	0.0	-2.14	108.42
						382.0	-0.12	-33.46	1.03	0.0	-1.78	98.42
						416.7	-0.12	-42.75	1.03	0.0	-1.43	85.19
						451.4	-0.12	-52.04	1.03	0.0	-1.07	68.73
						486.1	-0.12	-61.33	1.03	0.0	-0.71	49.05
						520.8	-0.12	-70.62	1.03	0.0	-0.36	26.14
						555.6	-0.12	-79.92	1.03	0.0	0.0	0.0
2	10	119.08	0.0	-0.02	-148.66	0.0	0.30	68.75	1.03	0.0	-5.71	31.02
		0.0	-5.71	1.61e-03	0.0	34.7	0.30	59.46	1.03	0.0	-5.35	53.28
						69.4	0.30	50.16	1.03	0.0	-5.00	72.31
						104.2	0.30	40.87	1.03	0.0	-4.64	88.12
						138.9	0.30	31.58	1.03	0.0	-4.28	100.70
						173.6	0.30	22.29	1.03	0.0	-3.93	110.05
						208.3	0.30	13.00	1.03	0.0	-3.57	116.18
						243.1	0.30	3.71	1.03	0.0	-3.21	119.08
						277.8	0.30	-5.58	1.03	0.0	-2.85	118.75
						312.5	0.30	-14.88	1.03	0.0	-2.50	115.20
						347.2	0.30	-24.17	1.03	0.0	-2.14	108.42
						382.0	0.30	-33.46	1.03	0.0	-1.78	98.42
						416.7	0.30	-42.75	1.03	0.0	-1.43	85.19
						451.4	0.30	-52.04	1.03	0.0	-1.07	68.73
						486.1	0.30	-61.33	1.03	0.0	-0.71	49.05
						520.8	0.30	-70.62	1.03	0.0	-0.36	26.14
						555.6	0.30	-79.92	1.03	0.0	0.0	0.0
2	11	119.08	5.71	-0.02	-148.66	0.0	-0.30	68.75	-1.03	0.0	5.71	31.02
		0.0	0.0	-1.61e-03	0.0	34.7	-0.30	59.46	-1.03	0.0	5.35	53.28
						69.4	-0.30	50.16	-1.03	0.0	5.00	72.31
						104.2	-0.30	40.87	-1.03	0.0	4.64	88.12
						138.9	-0.30	31.58	-1.03	0.0	4.28	100.70
						173.6	-0.30	22.29	-1.03	0.0	3.93	110.05
						208.3	-0.30	13.00	-1.03	0.0	3.57	116.18
						243.1	-0.30	3.71	-1.03	0.0	3.21	119.08
						277.8	-0.30	-5.58	-1.03	0.0	2.85	118.75
						312.5	-0.30	-14.88	-1.03	0.0	2.50	115.20
						347.2	-0.30	-24.17	-1.03	0.0	2.14	108.42
						382.0	-0.30	-33.46	-1.03	0.0	1.78	98.42
						416.7	-0.30	-42.75	-1.03	0.0	1.43	85.19
						451.4	-0.30	-52.04	-1.03	0.0	1.07	68.73
						486.1	-0.30	-61.33	-1.03	0.0	0.71	49.05
						520.8	-0.30	-70.62	-1.03	0.0	0.36	26.14
						555.6	-0.30	-79.92	-1.03	0.0	0.0	0.0
2	26	119.08	0.0	-0.02	-148.66	0.0	0.73	68.75	0.31	0.0	-1.72	31.02
		0.0	-1.72	4.85e-04	0.0	34.7	0.73	59.46	0.31	0.0	-1.61	53.28
						69.4	0.73	50.16	0.31	0.0	-1.50	72.31
						104.2	0.73	40.87	0.31	0.0	-1.40	88.12
						138.9	0.73	31.58	0.31	0.0	-1.29	100.70
						173.6	0.73	22.29	0.31	0.0	-1.18	110.05
						208.3	0.73	13.00	0.31	0.0	-1.07	116.18
						243.1	0.73	3.71	0.31	0.0	-0.97	119.08
						277.8	0.73	-5.58	0.31	0.0	-0.86	118.75
						312.5	0.73	-14.88	0.31	0.0	-0.75	115.20
						347.2	0.73	-24.17	0.31	0.0	-0.64	108.42
						382.0	0.73	-33.46	0.31	0.0	-0.54	98.42
						416.7	0.73	-42.75	0.31	0.0	-0.43	85.19
						451.4	0.73	-52.04	0.31	0.0	-0.32	68.73
						486.1	0.73	-61.33	0.31	0.0	-0.21	49.05
						520.8	0.73	-70.62	0.31	0.0	-0.11	26.14
						555.6	0.73	-79.92	0.31	0.0	0.0	0.0

2	27	119.08 0.0	1.72 0.0	-0.02 -4.85e-04	-148.66 0.0	0.0	-0.73	68.75	-0.31	0.0	1.72	31.02
						34.7	-0.73	59.46	-0.31	0.0	1.61	53.28
						69.4	-0.73	50.16	-0.31	0.0	1.50	72.31
						104.2	-0.73	40.87	-0.31	0.0	1.40	88.12
						138.9	-0.73	31.58	-0.31	0.0	1.29	100.70
						173.6	-0.73	22.29	-0.31	0.0	1.18	110.05
						208.3	-0.73	13.00	-0.31	0.0	1.07	116.18
						243.1	-0.73	3.71	-0.31	0.0	0.97	119.08
						277.8	-0.73	-5.58	-0.31	0.0	0.86	118.75
						312.5	-0.73	-14.88	-0.31	0.0	0.75	115.20
						347.2	-0.73	-24.17	-0.31	0.0	0.64	108.42
						382.0	-0.73	-33.46	-0.31	0.0	0.54	98.42
						416.7	-0.73	-42.75	-0.31	0.0	0.43	85.19
						451.4	-0.73	-52.04	-0.31	0.0	0.32	68.73
						486.1	-0.73	-61.33	-0.31	0.0	0.21	49.05
						520.8	-0.73	-70.62	-0.31	0.0	0.11	26.14
						555.6	-0.73	-79.92	-0.31	0.0	0.0	0.0
2	41	119.08 0.0	0.0 -3.26	-0.02 9.19e-04	-148.66 0.0	0.0	-0.06	68.75	0.59	0.0	-3.26	31.02
						34.7	-0.06	59.46	0.59	0.0	-3.06	53.28
						69.4	-0.06	50.16	0.59	0.0	-2.85	72.31
						104.2	-0.06	40.87	0.59	0.0	-2.65	88.12
						138.9	-0.06	31.58	0.59	0.0	-2.44	100.70
						173.6	-0.06	22.29	0.59	0.0	-2.24	110.05
						208.3	-0.06	13.00	0.59	0.0	-2.04	116.18
						243.1	-0.06	3.71	0.59	0.0	-1.83	119.08
						277.8	-0.06	-5.58	0.59	0.0	-1.63	118.75
						312.5	-0.06	-14.88	0.59	0.0	-1.43	115.20
						347.2	-0.06	-24.17	0.59	0.0	-1.22	108.42
						382.0	-0.06	-33.46	0.59	0.0	-1.02	98.42
						416.7	-0.06	-42.75	0.59	0.0	-0.81	85.19
						451.4	-0.06	-52.04	0.59	0.0	-0.61	68.73
						486.1	-0.06	-61.33	0.59	0.0	-0.41	49.05
						520.8	-0.06	-70.62	0.59	0.0	-0.20	26.14
						555.6	-0.06	-79.92	0.59	0.0	0.0	0.0
2	42	119.08 0.0	0.0 -3.26	-0.02 9.20e-04	-148.66 0.0	0.0	0.17	68.75	0.59	0.0	-3.26	31.02
						34.7	0.17	59.46	0.59	0.0	-3.06	53.28
						69.4	0.17	50.16	0.59	0.0	-2.85	72.31
						104.2	0.17	40.87	0.59	0.0	-2.65	88.12
						138.9	0.17	31.58	0.59	0.0	-2.45	100.70
						173.6	0.17	22.29	0.59	0.0	-2.24	110.05
						208.3	0.17	13.00	0.59	0.0	-2.04	116.18
						243.1	0.17	3.71	0.59	0.0	-1.84	119.08
						277.8	0.17	-5.58	0.59	0.0	-1.63	118.75
						312.5	0.17	-14.88	0.59	0.0	-1.43	115.20
						347.2	0.17	-24.17	0.59	0.0	-1.22	108.42
						382.0	0.17	-33.46	0.59	0.0	-1.02	98.42
						416.7	0.17	-42.75	0.59	0.0	-0.82	85.19
						451.4	0.17	-52.04	0.59	0.0	-0.61	68.73
						486.1	0.17	-61.33	0.59	0.0	-0.41	49.05
						520.8	0.17	-70.62	0.59	0.0	-0.20	26.14
						555.6	0.17	-79.92	0.59	0.0	0.0	0.0
2	43	119.08 0.0	3.26 0.0	-0.02 -9.20e-04	-148.66 0.0	0.0	-0.17	68.75	-0.59	0.0	3.26	31.02
						34.7	-0.17	59.46	-0.59	0.0	3.06	53.28
						69.4	-0.17	50.16	-0.59	0.0	2.85	72.31
						104.2	-0.17	40.87	-0.59	0.0	2.65	88.12
						138.9	-0.17	31.58	-0.59	0.0	2.45	100.70
						173.6	-0.17	22.29	-0.59	0.0	2.24	110.05
						208.3	-0.17	13.00	-0.59	0.0	2.04	116.18
						243.1	-0.17	3.71	-0.59	0.0	1.84	119.08
						277.8	-0.17	-5.58	-0.59	0.0	1.63	118.75
						312.5	-0.17	-14.88	-0.59	0.0	1.43	115.20
						347.2	-0.17	-24.17	-0.59	0.0	1.22	108.42
						382.0	-0.17	-33.46	-0.59	0.0	1.02	98.42
						416.7	-0.17	-42.75	-0.59	0.0	0.82	85.19
						451.4	-0.17	-52.04	-0.59	0.0	0.61	68.73
						486.1	-0.17	-61.33	-0.59	0.0	0.41	49.05
						520.8	-0.17	-70.62	-0.59	0.0	0.20	26.14
						555.6	-0.17	-79.92	-0.59	0.0	0.0	0.0
2	58	119.08 0.0	0.0 -0.98	-0.02 2.77e-04	-148.66 0.0	0.0	0.41	68.75	0.18	0.0	-0.98	31.02
						34.7	0.41	59.46	0.18	0.0	-0.92	53.28
						69.4	0.41	50.16	0.18	0.0	-0.86	72.31
						104.2	0.41	40.87	0.18	0.0	-0.80	88.12

						138.9	0.41	31.58	0.18	0.0	-0.74	100.70
						173.6	0.41	22.29	0.18	0.0	-0.68	110.05
						208.3	0.41	13.00	0.18	0.0	-0.61	116.18
						243.1	0.41	3.71	0.18	0.0	-0.55	119.08
						277.8	0.41	-5.58	0.18	0.0	-0.49	118.75
						312.5	0.41	-14.88	0.18	0.0	-0.43	115.20
						347.2	0.41	-24.17	0.18	0.0	-0.37	108.42
						382.0	0.41	-33.46	0.18	0.0	-0.31	98.42
						416.7	0.41	-42.75	0.18	0.0	-0.25	85.19
						451.4	0.41	-52.04	0.18	0.0	-0.18	68.73
						486.1	0.41	-61.33	0.18	0.0	-0.12	49.05
						520.8	0.41	-70.62	0.18	0.0	-0.06	26.14
						555.6	0.41	-79.92	0.18	0.0	0.0	0.0
2	59	119.08	0.98	-0.02	-148.66	0.0	-0.41	68.75	-0.18	0.0	0.98	31.02
		0.0	0.0	-2.77e-04	0.0	34.7	-0.41	59.46	-0.18	0.0	0.92	53.28
						69.4	-0.41	50.16	-0.18	0.0	0.86	72.31
						104.2	-0.41	40.87	-0.18	0.0	0.80	88.12
						138.9	-0.41	31.58	-0.18	0.0	0.74	100.70
						173.6	-0.41	22.29	-0.18	0.0	0.68	110.05
						208.3	-0.41	13.00	-0.18	0.0	0.61	116.18
						243.1	-0.41	3.71	-0.18	0.0	0.55	119.08
						277.8	-0.41	-5.58	-0.18	0.0	0.49	118.75
						312.5	-0.41	-14.88	-0.18	0.0	0.43	115.20
						347.2	-0.41	-24.17	-0.18	0.0	0.37	108.42
						382.0	-0.41	-33.46	-0.18	0.0	0.31	98.42
						416.7	-0.41	-42.75	-0.18	0.0	0.25	85.19
						451.4	-0.41	-52.04	-0.18	0.0	0.18	68.73
						486.1	-0.41	-61.33	-0.18	0.0	0.12	49.05
						520.8	-0.41	-70.62	-0.18	0.0	0.06	26.14
						555.6	-0.41	-79.92	-0.18	0.0	0.0	0.0
2	73	72.13	0.0	-0.01	-90.00	0.0	0.0	41.60	0.0	0.0	0.0	18.86
		0.0	0.0	0.0	0.0	34.7	0.0	35.98	0.0	0.0	0.0	32.33
						69.4	0.0	30.35	0.0	0.0	0.0	43.85
						104.2	0.0	24.73	0.0	0.0	0.0	53.41
						138.9	0.0	19.10	0.0	0.0	0.0	61.02
						173.6	0.0	13.48	0.0	0.0	0.0	66.68
						208.3	0.0	7.85	0.0	0.0	0.0	70.33
						243.1	0.0	2.23	0.0	0.0	0.0	72.13
						277.8	0.0	-3.40	0.0	0.0	0.0	71.93
						312.5	0.0	-9.02	0.0	0.0	0.0	69.77
						347.2	0.0	-14.64	0.0	0.0	0.0	65.67
						382.0	0.0	-20.27	0.0	0.0	0.0	59.60
						416.7	0.0	-25.89	0.0	0.0	0.0	51.59
						451.4	0.0	-31.52	0.0	0.0	0.0	41.62
						486.1	0.0	-37.14	0.0	0.0	0.0	29.70
						520.8	0.0	-42.77	0.0	0.0	0.0	15.83
						555.6	0.0	-48.39	0.0	0.0	0.0	0.0
2	76	119.08	0.0	-0.02	-148.66	0.0	0.0	68.75	0.0	0.0	0.0	31.02
		0.0	0.0	0.0	0.0	34.7	0.0	59.46	0.0	0.0	0.0	53.28
						69.4	0.0	50.16	0.0	0.0	0.0	72.31
						104.2	0.0	40.87	0.0	0.0	0.0	88.12
						138.9	0.0	31.58	0.0	0.0	0.0	100.70
						173.6	0.0	22.29	0.0	0.0	0.0	110.05
						208.3	0.0	13.00	0.0	0.0	0.0	116.18
						243.1	0.0	3.71	0.0	0.0	0.0	119.08
						277.8	0.0	-5.58	0.0	0.0	0.0	118.75
						312.5	0.0	-14.88	0.0	0.0	0.0	115.20
						347.2	0.0	-24.17	0.0	0.0	0.0	108.42
						382.0	0.0	-33.46	0.0	0.0	0.0	98.42
						416.7	0.0	-42.75	0.0	0.0	0.0	85.19
						451.4	0.0	-52.04	0.0	0.0	0.0	68.73
						486.1	0.0	-61.33	0.0	0.0	0.0	49.05
						520.8	0.0	-70.62	0.0	0.0	0.0	26.14
						555.6	0.0	-79.92	0.0	0.0	0.0	0.0
3	1	24.73	0.0	-5.04e-03	-0.35	0.0	0.0	55.83	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	2.8	0.0	55.80	0.0	0.0	0.0	1.55
						5.6	0.0	55.78	0.0	0.0	0.0	3.10
						8.3	0.0	55.76	0.0	0.0	0.0	4.65
						11.1	0.0	55.74	0.0	0.0	0.0	6.20
						13.9	0.0	55.72	0.0	0.0	0.0	7.74
						16.7	0.0	55.70	0.0	0.0	0.0	9.29
						19.4	0.0	55.67	0.0	0.0	0.0	10.84

						22.2	0.0	55.65	0.0	0.0	0.0	12.38
						25.0	0.0	55.63	0.0	0.0	0.0	13.93
						27.8	0.0	55.61	0.0	0.0	0.0	15.47
						30.5	0.0	55.59	0.0	0.0	0.0	17.02
						33.3	0.0	55.57	0.0	0.0	0.0	18.56
						36.1	0.0	55.54	0.0	0.0	0.0	20.10
						38.9	0.0	55.52	0.0	0.0	0.0	21.65
						41.7	0.0	55.50	0.0	0.0	0.0	23.19
						44.4	0.0	55.48	0.0	0.0	0.0	24.73
3	4	47.72	0.0	-9.76e-03	-0.35	0.0	0.0	107.56	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	2.8	0.0	107.54	0.0	0.0	0.0	2.99
						5.6	0.0	107.52	0.0	0.0	0.0	5.97
						8.3	0.0	107.50	0.0	0.0	0.0	8.96
						11.1	0.0	107.47	0.0	0.0	0.0	11.94
						13.9	0.0	107.45	0.0	0.0	0.0	14.93
						16.7	0.0	107.43	0.0	0.0	0.0	17.91
						19.4	0.0	107.41	0.0	0.0	0.0	20.90
						22.2	0.0	107.39	0.0	0.0	0.0	23.88
						25.0	0.0	107.37	0.0	0.0	0.0	26.86
						27.8	0.0	107.34	0.0	0.0	0.0	29.84
						30.5	0.0	107.32	0.0	0.0	0.0	32.82
						33.3	0.0	107.30	0.0	0.0	0.0	35.80
						36.1	0.0	107.28	0.0	0.0	0.0	38.78
						38.9	0.0	107.26	0.0	0.0	0.0	41.76
						41.7	0.0	107.24	0.0	0.0	0.0	44.74
						44.4	0.0	107.21	0.0	0.0	0.0	47.72
3	5	19.02	0.0	-3.87e-03	-0.27	0.0	0.0	42.94	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	2.8	0.0	42.93	0.0	0.0	0.0	1.19
						5.6	0.0	42.91	0.0	0.0	0.0	2.38
						8.3	0.0	42.89	0.0	0.0	0.0	3.58
						11.1	0.0	42.88	0.0	0.0	0.0	4.77
						13.9	0.0	42.86	0.0	0.0	0.0	5.96
						16.7	0.0	42.84	0.0	0.0	0.0	7.15
						19.4	0.0	42.83	0.0	0.0	0.0	8.34
						22.2	0.0	42.81	0.0	0.0	0.0	9.53
						25.0	0.0	42.79	0.0	0.0	0.0	10.71
						27.8	0.0	42.78	0.0	0.0	0.0	11.90
						30.5	0.0	42.76	0.0	0.0	0.0	13.09
						33.3	0.0	42.74	0.0	0.0	0.0	14.28
						36.1	0.0	42.73	0.0	0.0	0.0	15.46
						38.9	0.0	42.71	0.0	0.0	0.0	16.65
						41.7	0.0	42.69	0.0	0.0	0.0	17.84
						44.4	0.0	42.68	0.0	0.0	0.0	19.02
3	9	31.28	0.0	-6.39e-03	-0.27	0.0	0.85	70.53	-19.08	0.0	0.0	0.0
		0.0	-8.48	8.36e-04	0.0	2.8	0.85	70.52	-19.08	0.0	-0.53	1.96
						5.6	0.85	70.50	-19.08	0.0	-1.06	3.92
						8.3	0.85	70.48	-19.08	0.0	-1.59	5.87
						11.1	0.85	70.47	-19.08	0.0	-2.12	7.83
						13.9	0.85	70.45	-19.08	0.0	-2.65	9.79
						16.7	0.85	70.43	-19.08	0.0	-3.18	11.74
						19.4	0.85	70.42	-19.08	0.0	-3.71	13.70
						22.2	0.85	70.40	-19.08	0.0	-4.24	15.66
						25.0	0.85	70.38	-19.08	0.0	-4.77	17.61
						27.8	0.85	70.37	-19.08	0.0	-5.30	19.57
						30.5	0.85	70.35	-19.08	0.0	-5.83	21.52
						33.3	0.85	70.33	-19.08	0.0	-6.36	23.47
						36.1	0.85	70.32	-19.08	0.0	-6.89	25.43
						38.9	0.85	70.30	-19.08	0.0	-7.42	27.38
						41.7	0.85	70.28	-19.08	0.0	-7.95	29.33
						44.4	0.85	70.27	-19.08	0.0	-8.48	31.28
3	11	31.28	8.49	-6.39e-03	-0.27	0.0	4.46	70.53	19.11	0.0	0.0	0.0
		0.0	0.0	-8.37e-04	0.0	2.8	4.46	70.52	19.11	0.0	0.53	1.96
						5.6	4.46	70.50	19.11	0.0	1.06	3.92
						8.3	4.46	70.48	19.11	0.0	1.59	5.87
						11.1	4.46	70.47	19.11	0.0	2.12	7.83
						13.9	4.46	70.45	19.11	0.0	2.65	9.79
						16.7	4.46	70.43	19.11	0.0	3.18	11.74
						19.4	4.46	70.42	19.11	0.0	3.72	13.70
						22.2	4.46	70.40	19.11	0.0	4.25	15.66
						25.0	4.46	70.38	19.11	0.0	4.78	17.61
						27.8	4.46	70.37	19.11	0.0	5.31	19.57
						30.5	4.46	70.35	19.11	0.0	5.84	21.52

3	14	31.28	0.0	-6.39e-03	-0.27	33.3	4.46	70.33	19.11	0.0	6.37	23.47
						36.1	4.46	70.32	19.11	0.0	6.90	25.43
		38.9	4.46	70.30	19.11	0.0	7.43	27.38				
		41.7	4.46	70.28	19.11	0.0	7.96	29.33				
		44.4	4.46	70.27	19.11	0.0	8.49	31.28				
		0.0	-3.96	70.53	-19.11	0.0	0.0	0.0				
		2.8	-3.96	70.52	-19.11	0.0	-0.53	1.96				
		5.6	-3.96	70.50	-19.11	0.0	-1.06	3.92				
		8.3	-3.96	70.48	-19.11	0.0	-1.59	5.87				
		11.1	-3.96	70.47	-19.11	0.0	-2.12	7.83				
		13.9	-3.96	70.45	-19.11	0.0	-2.65	9.79				
		16.7	-3.96	70.43	-19.11	0.0	-3.18	11.74				
		19.4	-3.96	70.42	-19.11	0.0	-3.72	13.70				
		22.2	-3.96	70.40	-19.11	0.0	-4.25	15.66				
		25.0	-3.96	70.38	-19.11	0.0	-4.78	17.61				
		27.8	-3.96	70.37	-19.11	0.0	-5.31	19.57				
		3	15	31.28	8.49	-6.39e-03	-0.27	30.5	-3.96	70.35	-19.11	0.0
33.3	-3.96							70.33	-19.11	0.0	-6.37	23.47
36.1	-3.96			70.32	-19.11	0.0	-6.90	25.43				
38.9	-3.96			70.30	-19.11	0.0	-7.43	27.38				
41.7	-3.96			70.28	-19.11	0.0	-7.96	29.33				
44.4	-3.96			70.27	-19.11	0.0	-8.49	31.28				
0.0	3.96			70.53	19.11	0.0	0.0	0.0				
2.8	3.96			70.52	19.11	0.0	0.53	1.96				
5.6	3.96			70.50	19.11	0.0	1.06	3.92				
8.3	3.96			70.48	19.11	0.0	1.59	5.87				
11.1	3.96			70.47	19.11	0.0	2.12	7.83				
13.9	3.96			70.45	19.11	0.0	2.65	9.79				
16.7	3.96			70.43	19.11	0.0	3.18	11.74				
19.4	3.96			70.42	19.11	0.0	3.72	13.70				
22.2	3.96			70.40	19.11	0.0	4.25	15.66				
25.0	3.96			70.38	19.11	0.0	4.78	17.61				
27.8	3.96			70.37	19.11	0.0	5.31	19.57				
3	26	31.28	0.0	-6.39e-03	-0.27	30.5	3.96	70.35	19.11	0.0	5.84	21.52
						33.3	3.96	70.33	19.11	0.0	6.37	23.47
		36.1	3.96	70.32	19.11	0.0	6.90	25.43				
		38.9	3.96	70.30	19.11	0.0	7.43	27.38				
		41.7	3.96	70.28	19.11	0.0	7.96	29.33				
		44.4	3.96	70.27	19.11	0.0	8.49	31.28				
		0.0	-9.38	70.53	-5.78	0.0	0.0	0.0				
		2.8	-9.38	70.52	-5.78	0.0	-0.16	1.96				
		5.6	-9.38	70.50	-5.78	0.0	-0.32	3.92				
		8.3	-9.38	70.48	-5.78	0.0	-0.48	5.87				
		11.1	-9.38	70.47	-5.78	0.0	-0.64	7.83				
		13.9	-9.38	70.45	-5.78	0.0	-0.80	9.79				
		16.7	-9.38	70.43	-5.78	0.0	-0.96	11.74				
		19.4	-9.38	70.42	-5.78	0.0	-1.12	13.70				
		22.2	-9.38	70.40	-5.78	0.0	-1.28	15.66				
		25.0	-9.38	70.38	-5.78	0.0	-1.44	17.61				
		27.8	-9.38	70.37	-5.78	0.0	-1.60	19.57				
3	27	31.28	2.57	-6.39e-03	-0.27	30.5	-9.38	70.35	-5.78	0.0	-1.76	21.52
						33.3	-9.38	70.33	-5.78	0.0	-1.92	23.47
		36.1	-9.38	70.32	-5.78	0.0	-2.09	25.43				
		38.9	-9.38	70.30	-5.78	0.0	-2.25	27.38				
		41.7	-9.38	70.28	-5.78	0.0	-2.41	29.33				
		44.4	-9.38	70.27	-5.78	0.0	-2.57	31.28				
		0.0	9.38	70.53	5.78	0.0	0.0	0.0				
		2.8	9.38	70.52	5.78	0.0	0.16	1.96				
		5.6	9.38	70.50	5.78	0.0	0.32	3.92				
		8.3	9.38	70.48	5.78	0.0	0.48	5.87				
		11.1	9.38	70.47	5.78	0.0	0.64	7.83				
		13.9	9.38	70.45	5.78	0.0	0.80	9.79				
		16.7	9.38	70.43	5.78	0.0	0.96	11.74				
		19.4	9.38	70.42	5.78	0.0	1.12	13.70				
		22.2	9.38	70.40	5.78	0.0	1.28	15.66				
		25.0	9.38	70.38	5.78	0.0	1.44	17.61				
		27.8	9.38	70.37	5.78	0.0	1.60	19.57				

3	41	31.28 0.0	0.0 -4.84	-6.39e-03 4.78e-04	-0.27 0.0	44.4	9.38	70.27	5.78	0.0	2.57	31.28
						0.0	0.43	70.53	-10.90	0.0	0.0	0.0
						2.8	0.43	70.52	-10.90	0.0	-0.30	1.96
						5.6	0.43	70.50	-10.90	0.0	-0.61	3.92
						8.3	0.43	70.48	-10.90	0.0	-0.91	5.87
						11.1	0.43	70.47	-10.90	0.0	-1.21	7.83
						13.9	0.43	70.45	-10.90	0.0	-1.51	9.79
						16.7	0.43	70.43	-10.90	0.0	-1.82	11.74
						19.4	0.43	70.42	-10.90	0.0	-2.12	13.70
						22.2	0.43	70.40	-10.90	0.0	-2.42	15.66
						25.0	0.43	70.38	-10.90	0.0	-2.73	17.61
						27.8	0.43	70.37	-10.90	0.0	-3.03	19.57
						30.5	0.43	70.35	-10.90	0.0	-3.33	21.52
						33.3	0.43	70.33	-10.90	0.0	-3.63	23.47
						36.1	0.43	70.32	-10.90	0.0	-3.94	25.43
						38.9	0.43	70.30	-10.90	0.0	-4.24	27.38
3	43	31.28 0.0	4.85 0.0	-6.39e-03 -4.78e-04	-0.27 0.0	41.7	0.43	70.28	-10.90	0.0	-4.54	29.33
						44.4	0.43	70.27	-10.90	0.0	-4.84	31.28
						0.0	2.49	70.53	10.92	0.0	0.0	0.0
						2.8	2.49	70.52	10.92	0.0	0.30	1.96
						5.6	2.49	70.50	10.92	0.0	0.61	3.92
						8.3	2.49	70.48	10.92	0.0	0.91	5.87
						11.1	2.49	70.47	10.92	0.0	1.21	7.83
						13.9	2.49	70.45	10.92	0.0	1.52	9.79
						16.7	2.49	70.43	10.92	0.0	1.82	11.74
						19.4	2.49	70.42	10.92	0.0	2.12	13.70
						22.2	2.49	70.40	10.92	0.0	2.43	15.66
						25.0	2.49	70.38	10.92	0.0	2.73	17.61
						27.8	2.49	70.37	10.92	0.0	3.03	19.57
						30.5	2.49	70.35	10.92	0.0	3.34	21.52
						33.3	2.49	70.33	10.92	0.0	3.64	23.47
						36.1	2.49	70.32	10.92	0.0	3.94	25.43
3	46	31.28 0.0	0.0 -4.85	-6.39e-03 4.78e-04	-0.27 0.0	38.9	2.49	70.30	10.92	0.0	4.25	27.38
						41.7	2.49	70.28	10.92	0.0	4.55	29.33
						44.4	2.49	70.27	10.92	0.0	4.85	31.28
						0.0	-2.22	70.53	-10.92	0.0	0.0	0.0
						2.8	-2.22	70.52	-10.92	0.0	-0.30	1.96
						5.6	-2.22	70.50	-10.92	0.0	-0.61	3.92
						8.3	-2.22	70.48	-10.92	0.0	-0.91	5.87
						11.1	-2.22	70.47	-10.92	0.0	-1.21	7.83
						13.9	-2.22	70.45	-10.92	0.0	-1.52	9.79
						16.7	-2.22	70.43	-10.92	0.0	-1.82	11.74
						19.4	-2.22	70.42	-10.92	0.0	-2.12	13.70
						22.2	-2.22	70.40	-10.92	0.0	-2.43	15.66
						25.0	-2.22	70.38	-10.92	0.0	-2.73	17.61
						27.8	-2.22	70.37	-10.92	0.0	-3.03	19.57
						30.5	-2.22	70.35	-10.92	0.0	-3.34	21.52
						33.3	-2.22	70.33	-10.92	0.0	-3.64	23.47
3	47	31.28 0.0	4.85 0.0	-6.39e-03 -4.78e-04	-0.27 0.0	36.1	-2.22	70.32	-10.92	0.0	-3.94	25.43
						38.9	-2.22	70.30	-10.92	0.0	-4.25	27.38
						41.7	-2.22	70.28	-10.92	0.0	-4.55	29.33
						44.4	-2.22	70.27	-10.92	0.0	-4.85	31.28
						0.0	2.22	70.53	10.92	0.0	0.0	0.0
						2.8	2.22	70.52	10.92	0.0	0.30	1.96
						5.6	2.22	70.50	10.92	0.0	0.61	3.92
						8.3	2.22	70.48	10.92	0.0	0.91	5.87
						11.1	2.22	70.47	10.92	0.0	1.21	7.83
						13.9	2.22	70.45	10.92	0.0	1.52	9.79
						16.7	2.22	70.43	10.92	0.0	1.82	11.74
						19.4	2.22	70.42	10.92	0.0	2.12	13.70
						22.2	2.22	70.40	10.92	0.0	2.43	15.66
						25.0	2.22	70.38	10.92	0.0	2.73	17.61
						27.8	2.22	70.37	10.92	0.0	3.03	19.57
						30.5	2.22	70.35	10.92	0.0	3.34	21.52
						33.3	2.22	70.33	10.92	0.0	3.64	23.47
3	58	31.28 0.0	0.0 -1.47	-6.39e-03 1.44e-04	-0.27 0.0	36.1	2.22	70.32	10.92	0.0	3.94	25.43
						38.9	2.22	70.30	10.92	0.0	4.25	27.38
						41.7	2.22	70.28	10.92	0.0	4.55	29.33
						44.4	2.22	70.27	10.92	0.0	4.85	31.28
						0.0	-5.18	70.53	-3.30	0.0	0.0	0.0
						2.8	-5.18	70.52	-3.30	0.0	-0.09	1.96
						5.6	-5.18	70.50	-3.30	0.0	-0.18	3.92

						8.3	-5.18	70.48	-3.30	0.0	-0.27	5.87
						11.1	-5.18	70.47	-3.30	0.0	-0.37	7.83
						13.9	-5.18	70.45	-3.30	0.0	-0.46	9.79
						16.7	-5.18	70.43	-3.30	0.0	-0.55	11.74
						19.4	-5.18	70.42	-3.30	0.0	-0.64	13.70
						22.2	-5.18	70.40	-3.30	0.0	-0.73	15.66
						25.0	-5.18	70.38	-3.30	0.0	-0.82	17.61
						27.8	-5.18	70.37	-3.30	0.0	-0.92	19.57
						30.5	-5.18	70.35	-3.30	0.0	-1.01	21.52
						33.3	-5.18	70.33	-3.30	0.0	-1.10	23.47
						36.1	-5.18	70.32	-3.30	0.0	-1.19	25.43
						38.9	-5.18	70.30	-3.30	0.0	-1.28	27.38
						41.7	-5.18	70.28	-3.30	0.0	-1.37	29.33
						44.4	-5.18	70.27	-3.30	0.0	-1.47	31.28
3	59	31.28	1.47	-6.39e-03	-0.27	0.0	5.18	70.53	3.30	0.0	0.0	0.0
		0.0	0.0	-1.44e-04	0.0	2.8	5.18	70.52	3.30	0.0	0.09	1.96
						5.6	5.18	70.50	3.30	0.0	0.18	3.92
						8.3	5.18	70.48	3.30	0.0	0.27	5.87
						11.1	5.18	70.47	3.30	0.0	0.37	7.83
						13.9	5.18	70.45	3.30	0.0	0.46	9.79
						16.7	5.18	70.43	3.30	0.0	0.55	11.74
						19.4	5.18	70.42	3.30	0.0	0.64	13.70
						22.2	5.18	70.40	3.30	0.0	0.73	15.66
						25.0	5.18	70.38	3.30	0.0	0.82	17.61
						27.8	5.18	70.37	3.30	0.0	0.92	19.57
						30.5	5.18	70.35	3.30	0.0	1.01	21.52
						33.3	5.18	70.33	3.30	0.0	1.10	23.47
						36.1	5.18	70.32	3.30	0.0	1.19	25.43
						38.9	5.18	70.30	3.30	0.0	1.28	27.38
						41.7	5.18	70.28	3.30	0.0	1.37	29.33
						44.4	5.18	70.27	3.30	0.0	1.47	31.28
3	73	19.02	0.0	-3.87e-03	-0.27	0.0	0.0	42.94	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	2.8	0.0	42.93	0.0	0.0	0.0	1.19
						5.6	0.0	42.91	0.0	0.0	0.0	2.38
						8.3	0.0	42.89	0.0	0.0	0.0	3.58
						11.1	0.0	42.88	0.0	0.0	0.0	4.77
						13.9	0.0	42.86	0.0	0.0	0.0	5.97
						16.7	0.0	42.84	0.0	0.0	0.0	7.15
						19.4	0.0	42.83	0.0	0.0	0.0	8.34
						22.2	0.0	42.81	0.0	0.0	0.0	9.53
						25.0	0.0	42.79	0.0	0.0	0.0	10.71
						27.8	0.0	42.78	0.0	0.0	0.0	11.90
						30.5	0.0	42.76	0.0	0.0	0.0	13.09
						33.3	0.0	42.74	0.0	0.0	0.0	14.28
						36.1	0.0	42.73	0.0	0.0	0.0	15.46
						38.9	0.0	42.71	0.0	0.0	0.0	16.65
						41.7	0.0	42.69	0.0	0.0	0.0	17.84
						44.4	0.0	42.68	0.0	0.0	0.0	19.02
3	76	31.28	0.0	-6.39e-03	-0.27	0.0	0.0	70.53	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	2.8	0.0	70.52	0.0	0.0	0.0	1.96
						5.6	0.0	70.50	0.0	0.0	0.0	3.92
						8.3	0.0	70.48	0.0	0.0	0.0	5.87
						11.1	0.0	70.47	0.0	0.0	0.0	7.83
						13.9	0.0	70.45	0.0	0.0	0.0	9.79
						16.7	0.0	70.43	0.0	0.0	0.0	11.74
						19.4	0.0	70.42	0.0	0.0	0.0	13.70
						22.2	0.0	70.40	0.0	0.0	0.0	15.66
						25.0	0.0	70.38	0.0	0.0	0.0	17.61
						27.8	0.0	70.37	0.0	0.0	0.0	19.57
						30.5	0.0	70.35	0.0	0.0	0.0	21.52
						33.3	0.0	70.33	0.0	0.0	0.0	23.47
						36.1	0.0	70.32	0.0	0.0	0.0	25.43
						38.9	0.0	70.30	0.0	0.0	0.0	27.38
						41.7	0.0	70.28	0.0	0.0	0.0	29.33
						44.4	0.0	70.27	0.0	0.0	0.0	31.28
4	1	25.13	0.0	-5.05e-03	-0.35	0.0	0.0	56.74	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	2.8	0.0	56.71	0.0	0.0	0.0	1.58
						5.6	0.0	56.69	0.0	0.0	0.0	3.15
						8.3	0.0	56.67	0.0	0.0	0.0	4.72
						11.1	0.0	56.65	0.0	0.0	0.0	6.30
						13.9	0.0	56.63	0.0	0.0	0.0	7.87
						16.7	0.0	56.61	0.0	0.0	0.0	9.44

						19.4	0.0	56.59	0.0	0.0	0.0	11.02
						22.2	0.0	56.56	0.0	0.0	0.0	12.59
						25.0	0.0	56.54	0.0	0.0	0.0	14.16
						27.8	0.0	56.52	0.0	0.0	0.0	15.73
						30.5	0.0	56.50	0.0	0.0	0.0	17.30
						33.3	0.0	56.48	0.0	0.0	0.0	18.86
						36.1	0.0	56.46	0.0	0.0	0.0	20.43
						38.9	0.0	56.43	0.0	0.0	0.0	22.00
						41.7	0.0	56.41	0.0	0.0	0.0	23.57
						44.4	0.0	56.39	0.0	0.0	0.0	25.13
4	4	48.49	0.0	-9.78e-03	-0.35	0.0	0.0	109.30	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	2.8	0.0	109.27	0.0	0.0	0.0	3.04
						5.6	0.0	109.25	0.0	0.0	0.0	6.07
						8.3	0.0	109.23	0.0	0.0	0.0	9.10
						11.1	0.0	109.21	0.0	0.0	0.0	12.14
						13.9	0.0	109.19	0.0	0.0	0.0	15.17
						16.7	0.0	109.17	0.0	0.0	0.0	18.20
						19.4	0.0	109.14	0.0	0.0	0.0	21.23
						22.2	0.0	109.12	0.0	0.0	0.0	24.26
						25.0	0.0	109.10	0.0	0.0	0.0	27.29
						27.8	0.0	109.08	0.0	0.0	0.0	30.32
						30.5	0.0	109.06	0.0	0.0	0.0	33.35
						33.3	0.0	109.04	0.0	0.0	0.0	36.38
						36.1	0.0	109.01	0.0	0.0	0.0	39.41
						38.9	0.0	108.99	0.0	0.0	0.0	42.44
						41.7	0.0	108.97	0.0	0.0	0.0	45.46
						44.4	0.0	108.95	0.0	0.0	0.0	48.49
4	5	19.33	0.0	-3.88e-03	-0.27	0.0	0.0	43.64	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	2.8	0.0	43.63	0.0	0.0	0.0	1.21
						5.6	0.0	43.61	0.0	0.0	0.0	2.42
						8.3	0.0	43.59	0.0	0.0	0.0	3.63
						11.1	0.0	43.58	0.0	0.0	0.0	4.84
						13.9	0.0	43.56	0.0	0.0	0.0	6.05
						16.7	0.0	43.54	0.0	0.0	0.0	7.26
						19.4	0.0	43.53	0.0	0.0	0.0	8.47
						22.2	0.0	43.51	0.0	0.0	0.0	9.68
						25.0	0.0	43.49	0.0	0.0	0.0	10.89
						27.8	0.0	43.48	0.0	0.0	0.0	12.10
						30.5	0.0	43.46	0.0	0.0	0.0	13.30
						33.3	0.0	43.44	0.0	0.0	0.0	14.51
						36.1	0.0	43.43	0.0	0.0	0.0	15.72
						38.9	0.0	43.41	0.0	0.0	0.0	16.92
						41.7	0.0	43.39	0.0	0.0	0.0	18.13
						44.4	0.0	43.38	0.0	0.0	0.0	19.33
4	9	31.79	0.0	-6.41e-03	-0.27	0.0	3.81	71.68	-19.06	0.0	0.0	0.0
		0.0	-8.47	8.37e-04	0.0	2.8	3.81	71.66	-19.06	0.0	-0.53	1.99
						5.6	3.81	71.64	-19.06	0.0	-1.06	3.98
						8.3	3.81	71.63	-19.06	0.0	-1.59	5.97
						11.1	3.81	71.61	-19.06	0.0	-2.12	7.96
						13.9	3.81	71.59	-19.06	0.0	-2.65	9.95
						16.7	3.81	71.58	-19.06	0.0	-3.18	11.94
						19.4	3.81	71.56	-19.06	0.0	-3.71	13.92
						22.2	3.81	71.54	-19.06	0.0	-4.23	15.91
						25.0	3.81	71.53	-19.06	0.0	-4.76	17.90
						27.8	3.81	71.51	-19.06	0.0	-5.29	19.88
						30.5	3.81	71.49	-19.06	0.0	-5.82	21.87
						33.3	3.81	71.48	-19.06	0.0	-6.35	23.85
						36.1	3.81	71.46	-19.06	0.0	-6.88	25.84
						38.9	3.81	71.44	-19.06	0.0	-7.41	27.82
						41.7	3.81	71.43	-19.06	0.0	-7.94	29.81
						44.4	3.81	71.41	-19.06	0.0	-8.47	31.79
4	11	31.79	8.45	-6.41e-03	-0.27	0.0	0.49	71.68	19.01	0.0	0.0	0.0
		0.0	0.0	-8.37e-04	0.0	2.8	0.49	71.66	19.01	0.0	0.53	1.99
						5.6	0.49	71.64	19.01	0.0	1.06	3.98
						8.3	0.49	71.63	19.01	0.0	1.58	5.97
						11.1	0.49	71.61	19.01	0.0	2.11	7.96
						13.9	0.49	71.59	19.01	0.0	2.64	9.95
						16.7	0.49	71.58	19.01	0.0	3.17	11.94
						19.4	0.49	71.56	19.01	0.0	3.70	13.92
						22.2	0.49	71.54	19.01	0.0	4.22	15.91
						25.0	0.49	71.53	19.01	0.0	4.75	17.90
						27.8	0.49	71.51	19.01	0.0	5.28	19.88

						30.5	0.49	71.49	19.01	0.0	5.81	21.87
						33.3	0.49	71.48	19.01	0.0	6.34	23.85
						36.1	0.49	71.46	19.01	0.0	6.86	25.84
						38.9	0.49	71.44	19.01	0.0	7.39	27.82
						41.7	0.49	71.43	19.01	0.0	7.92	29.81
						44.4	0.49	71.41	19.01	0.0	8.45	31.79
4	13	31.79	0.0	-6.41e-03	-0.27	0.0	4.30	71.68	-19.06	0.0	0.0	0.0
		0.0	-8.47	8.37e-04	0.0	2.8	4.30	71.66	-19.06	0.0	-0.53	1.99
						5.6	4.30	71.64	-19.06	0.0	-1.06	3.98
						8.3	4.30	71.63	-19.06	0.0	-1.59	5.97
						11.1	4.30	71.61	-19.06	0.0	-2.12	7.96
						13.9	4.30	71.59	-19.06	0.0	-2.65	9.95
						16.7	4.30	71.58	-19.06	0.0	-3.18	11.94
						19.4	4.30	71.56	-19.06	0.0	-3.71	13.92
						22.2	4.30	71.54	-19.06	0.0	-4.24	15.91
						25.0	4.30	71.53	-19.06	0.0	-4.76	17.90
						27.8	4.30	71.51	-19.06	0.0	-5.29	19.88
						30.5	4.30	71.49	-19.06	0.0	-5.82	21.87
						33.3	4.30	71.48	-19.06	0.0	-6.35	23.85
						36.1	4.30	71.46	-19.06	0.0	-6.88	25.84
						38.9	4.30	71.44	-19.06	0.0	-7.41	27.82
						41.7	4.30	71.43	-19.06	0.0	-7.94	29.81
						44.4	4.30	71.41	-19.06	0.0	-8.47	31.79
4	16	31.79	8.47	-6.41e-03	-0.27	0.0	-4.30	71.68	19.06	0.0	0.0	0.0
		0.0	0.0	-8.37e-04	0.0	2.8	-4.30	71.66	19.06	0.0	0.53	1.99
						5.6	-4.30	71.64	19.06	0.0	1.06	3.98
						8.3	-4.30	71.63	19.06	0.0	1.59	5.97
						11.1	-4.30	71.61	19.06	0.0	2.12	7.96
						13.9	-4.30	71.59	19.06	0.0	2.65	9.95
						16.7	-4.30	71.58	19.06	0.0	3.18	11.94
						19.4	-4.30	71.56	19.06	0.0	3.71	13.92
						22.2	-4.30	71.54	19.06	0.0	4.24	15.91
						25.0	-4.30	71.53	19.06	0.0	4.76	17.90
						27.8	-4.30	71.51	19.06	0.0	5.29	19.88
						30.5	-4.30	71.49	19.06	0.0	5.82	21.87
						33.3	-4.30	71.48	19.06	0.0	6.35	23.85
						36.1	-4.30	71.46	19.06	0.0	6.88	25.84
						38.9	-4.30	71.44	19.06	0.0	7.41	27.82
						41.7	-4.30	71.43	19.06	0.0	7.94	29.81
						44.4	-4.30	71.41	19.06	0.0	8.47	31.79
4	33	31.79	0.0	-6.41e-03	-0.27	0.0	9.30	71.68	-5.80	0.0	0.0	0.0
		0.0	-2.58	2.50e-04	0.0	2.8	9.30	71.66	-5.80	0.0	-0.16	1.99
						5.6	9.30	71.64	-5.80	0.0	-0.32	3.98
						8.3	9.30	71.63	-5.80	0.0	-0.48	5.97
						11.1	9.30	71.61	-5.80	0.0	-0.64	7.96
						13.9	9.30	71.59	-5.80	0.0	-0.81	9.95
						16.7	9.30	71.58	-5.80	0.0	-0.97	11.94
						19.4	9.30	71.56	-5.80	0.0	-1.13	13.92
						22.2	9.30	71.54	-5.80	0.0	-1.29	15.91
						25.0	9.30	71.53	-5.80	0.0	-1.45	17.90
						27.8	9.30	71.51	-5.80	0.0	-1.61	19.88
						30.5	9.30	71.49	-5.80	0.0	-1.77	21.87
						33.3	9.30	71.48	-5.80	0.0	-1.93	23.85
						36.1	9.30	71.46	-5.80	0.0	-2.09	25.84
						38.9	9.30	71.44	-5.80	0.0	-2.25	27.82
						41.7	9.30	71.43	-5.80	0.0	-2.42	29.81
						44.4	9.30	71.41	-5.80	0.0	-2.58	31.79
4	36	31.79	2.58	-6.41e-03	-0.27	0.0	-9.30	71.68	5.80	0.0	0.0	0.0
		0.0	0.0	-2.50e-04	0.0	2.8	-9.30	71.66	5.80	0.0	0.16	1.99
						5.6	-9.30	71.64	5.80	0.0	0.32	3.98
						8.3	-9.30	71.63	5.80	0.0	0.48	5.97
						11.1	-9.30	71.61	5.80	0.0	0.64	7.96
						13.9	-9.30	71.59	5.80	0.0	0.81	9.95
						16.7	-9.30	71.58	5.80	0.0	0.97	11.94
						19.4	-9.30	71.56	5.80	0.0	1.13	13.92
						22.2	-9.30	71.54	5.80	0.0	1.29	15.91
						25.0	-9.30	71.53	5.80	0.0	1.45	17.90
						27.8	-9.30	71.51	5.80	0.0	1.61	19.88
						30.5	-9.30	71.49	5.80	0.0	1.77	21.87
						33.3	-9.30	71.48	5.80	0.0	1.93	23.85
						36.1	-9.30	71.46	5.80	0.0	2.09	25.84
						38.9	-9.30	71.44	5.80	0.0	2.25	27.82

						41.7	-9.30	71.43	5.80	0.0	2.42	29.81
						44.4	-9.30	71.41	5.80	0.0	2.58	31.79
4	41	31.79	0.0	-6.41e-03	-0.27	0.0	2.13	71.68	-10.89	0.0	0.0	0.0
		0.0	-4.84	4.78e-04	0.0	2.8	2.13	71.66	-10.89	0.0	-0.30	1.99
						5.6	2.13	71.64	-10.89	0.0	-0.60	3.98
						8.3	2.13	71.63	-10.89	0.0	-0.91	5.97
						11.1	2.13	71.61	-10.89	0.0	-1.21	7.96
						13.9	2.13	71.59	-10.89	0.0	-1.51	9.95
						16.7	2.13	71.58	-10.89	0.0	-1.81	11.94
						19.4	2.13	71.56	-10.89	0.0	-2.12	13.92
						22.2	2.13	71.54	-10.89	0.0	-2.42	15.91
						25.0	2.13	71.53	-10.89	0.0	-2.72	17.90
						27.8	2.13	71.51	-10.89	0.0	-3.02	19.88
						30.5	2.13	71.49	-10.89	0.0	-3.33	21.87
						33.3	2.13	71.48	-10.89	0.0	-3.63	23.85
						36.1	2.13	71.46	-10.89	0.0	-3.93	25.84
						38.9	2.13	71.44	-10.89	0.0	-4.23	27.82
						41.7	2.13	71.43	-10.89	0.0	-4.54	29.81
						44.4	2.13	71.41	-10.89	0.0	-4.84	31.79
4	43	31.79	4.83	-6.41e-03	-0.27	0.0	0.23	71.68	10.86	0.0	0.0	0.0
		0.0	0.0	-4.78e-04	0.0	2.8	0.23	71.66	10.86	0.0	0.30	1.99
						5.6	0.23	71.64	10.86	0.0	0.60	3.98
						8.3	0.23	71.63	10.86	0.0	0.91	5.97
						11.1	0.23	71.61	10.86	0.0	1.21	7.96
						13.9	0.23	71.59	10.86	0.0	1.51	9.95
						16.7	0.23	71.58	10.86	0.0	1.81	11.94
						19.4	0.23	71.56	10.86	0.0	2.11	13.92
						22.2	0.23	71.54	10.86	0.0	2.41	15.91
						25.0	0.23	71.53	10.86	0.0	2.72	17.90
						27.8	0.23	71.51	10.86	0.0	3.02	19.88
						30.5	0.23	71.49	10.86	0.0	3.32	21.87
						33.3	0.23	71.48	10.86	0.0	3.62	23.85
						36.1	0.23	71.46	10.86	0.0	3.92	25.84
						38.9	0.23	71.44	10.86	0.0	4.22	27.82
						41.7	0.23	71.43	10.86	0.0	4.53	29.81
						44.4	0.23	71.41	10.86	0.0	4.83	31.79
4	45	31.79	0.0	-6.41e-03	-0.27	0.0	2.40	71.68	-10.89	0.0	0.0	0.0
		0.0	-4.84	4.78e-04	0.0	2.8	2.40	71.66	-10.89	0.0	-0.30	1.99
						5.6	2.40	71.64	-10.89	0.0	-0.60	3.98
						8.3	2.40	71.63	-10.89	0.0	-0.91	5.97
						11.1	2.40	71.61	-10.89	0.0	-1.21	7.96
						13.9	2.40	71.59	-10.89	0.0	-1.51	9.95
						16.7	2.40	71.58	-10.89	0.0	-1.81	11.94
						19.4	2.40	71.56	-10.89	0.0	-2.12	13.92
						22.2	2.40	71.54	-10.89	0.0	-2.42	15.91
						25.0	2.40	71.53	-10.89	0.0	-2.72	17.90
						27.8	2.40	71.51	-10.89	0.0	-3.02	19.88
						30.5	2.40	71.49	-10.89	0.0	-3.33	21.87
						33.3	2.40	71.48	-10.89	0.0	-3.63	23.85
						36.1	2.40	71.46	-10.89	0.0	-3.93	25.84
						38.9	2.40	71.44	-10.89	0.0	-4.23	27.82
						41.7	2.40	71.43	-10.89	0.0	-4.54	29.81
						44.4	2.40	71.41	-10.89	0.0	-4.84	31.79
4	48	31.79	4.84	-6.41e-03	-0.27	0.0	-2.40	71.68	10.89	0.0	0.0	0.0
		0.0	0.0	-4.78e-04	0.0	2.8	-2.40	71.66	10.89	0.0	0.30	1.99
						5.6	-2.40	71.64	10.89	0.0	0.60	3.98
						8.3	-2.40	71.63	10.89	0.0	0.91	5.97
						11.1	-2.40	71.61	10.89	0.0	1.21	7.96
						13.9	-2.40	71.59	10.89	0.0	1.51	9.95
						16.7	-2.40	71.58	10.89	0.0	1.81	11.94
						19.4	-2.40	71.56	10.89	0.0	2.12	13.92
						22.2	-2.40	71.54	10.89	0.0	2.42	15.91
						25.0	-2.40	71.53	10.89	0.0	2.72	17.90
						27.8	-2.40	71.51	10.89	0.0	3.02	19.88
						30.5	-2.40	71.49	10.89	0.0	3.33	21.87
						33.3	-2.40	71.48	10.89	0.0	3.63	23.85
						36.1	-2.40	71.46	10.89	0.0	3.93	25.84
						38.9	-2.40	71.44	10.89	0.0	4.23	27.82
						41.7	-2.40	71.43	10.89	0.0	4.54	29.81
						44.4	-2.40	71.41	10.89	0.0	4.84	31.79
4	65	31.79	0.0	-6.41e-03	-0.27	0.0	5.13	71.68	-3.31	0.0	0.0	0.0
		0.0	-1.47	1.43e-04	0.0	2.8	5.13	71.66	-3.31	0.0	-0.09	1.99

						5.6	5.13	71.64	-3.31	0.0	-0.18	3.98
						8.3	5.13	71.63	-3.31	0.0	-0.28	5.97
						11.1	5.13	71.61	-3.31	0.0	-0.37	7.96
						13.9	5.13	71.59	-3.31	0.0	-0.46	9.95
						16.7	5.13	71.58	-3.31	0.0	-0.55	11.94
						19.4	5.13	71.56	-3.31	0.0	-0.64	13.92
						22.2	5.13	71.54	-3.31	0.0	-0.74	15.91
						25.0	5.13	71.53	-3.31	0.0	-0.83	17.90
						27.8	5.13	71.51	-3.31	0.0	-0.92	19.88
						30.5	5.13	71.49	-3.31	0.0	-1.01	21.87
						33.3	5.13	71.48	-3.31	0.0	-1.10	23.85
						36.1	5.13	71.46	-3.31	0.0	-1.20	25.84
						38.9	5.13	71.44	-3.31	0.0	-1.29	27.82
						41.7	5.13	71.43	-3.31	0.0	-1.38	29.81
						44.4	5.13	71.41	-3.31	0.0	-1.47	31.79
4	68	31.79	1.47	-6.41e-03	-0.27	0.0	-5.13	71.68	3.31	0.0	0.0	0.0
		0.0	0.0	-1.43e-04	0.0	2.8	-5.13	71.66	3.31	0.0	0.09	1.99
						5.6	-5.13	71.64	3.31	0.0	0.18	3.98
						8.3	-5.13	71.63	3.31	0.0	0.28	5.97
						11.1	-5.13	71.61	3.31	0.0	0.37	7.96
						13.9	-5.13	71.59	3.31	0.0	0.46	9.95
						16.7	-5.13	71.58	3.31	0.0	0.55	11.94
						19.4	-5.13	71.56	3.31	0.0	0.64	13.92
						22.2	-5.13	71.54	3.31	0.0	0.74	15.91
						25.0	-5.13	71.53	3.31	0.0	0.83	17.90
						27.8	-5.13	71.51	3.31	0.0	0.92	19.88
						30.5	-5.13	71.49	3.31	0.0	1.01	21.87
						33.3	-5.13	71.48	3.31	0.0	1.10	23.85
						36.1	-5.13	71.46	3.31	0.0	1.20	25.84
						38.9	-5.13	71.44	3.31	0.0	1.29	27.82
						41.7	-5.13	71.43	3.31	0.0	1.38	29.81
						44.4	-5.13	71.41	3.31	0.0	1.47	31.79
4	73	19.33	0.0	-3.88e-03	-0.27	0.0	0.0	43.64	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	2.8	0.0	43.63	0.0	0.0	0.0	1.21
						5.6	0.0	43.61	0.0	0.0	0.0	2.42
						8.3	0.0	43.59	0.0	0.0	0.0	3.63
						11.1	0.0	43.58	0.0	0.0	0.0	4.84
						13.9	0.0	43.56	0.0	0.0	0.0	6.05
						16.7	0.0	43.54	0.0	0.0	0.0	7.26
						19.4	0.0	43.53	0.0	0.0	0.0	8.47
						22.2	0.0	43.51	0.0	0.0	0.0	9.68
						25.0	0.0	43.49	0.0	0.0	0.0	10.89
						27.8	0.0	43.48	0.0	0.0	0.0	12.10
						30.5	0.0	43.46	0.0	0.0	0.0	13.30
						33.3	0.0	43.44	0.0	0.0	0.0	14.51
						36.1	0.0	43.43	0.0	0.0	0.0	15.72
						38.9	0.0	43.41	0.0	0.0	0.0	16.92
						41.7	0.0	43.39	0.0	0.0	0.0	18.13
						44.4	0.0	43.38	0.0	0.0	0.0	19.33
4	76	31.79	0.0	-6.41e-03	-0.27	0.0	0.0	71.68	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	2.8	0.0	71.66	0.0	0.0	0.0	1.99
						5.6	0.0	71.64	0.0	0.0	0.0	3.98
						8.3	0.0	71.63	0.0	0.0	0.0	5.97
						11.1	0.0	71.61	0.0	0.0	0.0	7.96
						13.9	0.0	71.59	0.0	0.0	0.0	9.95
						16.7	0.0	71.58	0.0	0.0	0.0	11.94
						19.4	0.0	71.56	0.0	0.0	0.0	13.92
						22.2	0.0	71.54	0.0	0.0	0.0	15.91
						25.0	0.0	71.53	0.0	0.0	0.0	17.90
						27.8	0.0	71.51	0.0	0.0	0.0	19.88
						30.5	0.0	71.49	0.0	0.0	0.0	21.87
						33.3	0.0	71.48	0.0	0.0	0.0	23.85
						36.1	0.0	71.46	0.0	0.0	0.0	25.84
						38.9	0.0	71.44	0.0	0.0	0.0	27.82
						41.7	0.0	71.43	0.0	0.0	0.0	29.81
						44.4	0.0	71.41	0.0	0.0	0.0	31.79
5	1	2.14	0.0	-6.65e-04	-0.31	0.0	0.0	2.34	0.0	0.42	0.0	-5.38e-03
		-5.38e-03	0.0	0.0	0.0	6.1	0.0	2.32	0.0	0.42	0.0	0.14
						12.3	0.0	2.30	0.0	0.42	0.0	0.28
						18.4	0.0	2.28	0.0	0.42	0.0	0.42
						24.5	0.0	2.26	0.0	0.42	0.0	0.56
						30.6	0.0	2.24	0.0	0.42	0.0	0.70

						36.8	0.0	2.23	0.0	0.42	0.0	0.83
						42.9	0.0	2.21	0.0	0.42	0.0	0.97
						49.0	0.0	2.19	0.0	0.42	0.0	1.10
						55.1	0.0	2.17	0.0	0.42	0.0	1.24
						61.3	0.0	2.15	0.0	0.42	0.0	1.37
						67.4	0.0	2.13	0.0	0.42	0.0	1.50
						73.5	0.0	2.11	0.0	0.42	0.0	1.63
						79.6	0.0	2.09	0.0	0.42	0.0	1.76
						85.8	0.0	2.07	0.0	0.42	0.0	1.89
						91.9	0.0	2.05	0.0	0.42	0.0	2.01
						98.0	0.0	2.03	0.0	0.42	0.0	2.14
5	2	3.79	0.0	-1.15e-03	-0.31	0.0	0.0	4.03	0.0	0.79	0.0	-5.46e-03
		-5.46e-03	0.0	0.0	0.0	6.1	0.0	4.01	0.0	0.79	0.0	0.24
						12.3	0.0	3.99	0.0	0.79	0.0	0.49
						18.4	0.0	3.98	0.0	0.79	0.0	0.73
						24.5	0.0	3.96	0.0	0.79	0.0	0.97
						30.6	0.0	3.94	0.0	0.79	0.0	1.21
						36.8	0.0	3.92	0.0	0.79	0.0	1.46
						42.9	0.0	3.90	0.0	0.79	0.0	1.69
						49.0	0.0	3.88	0.0	0.79	0.0	1.93
						55.1	0.0	3.86	0.0	0.79	0.0	2.17
						61.3	0.0	3.84	0.0	0.79	0.0	2.41
						67.4	0.0	3.82	0.0	0.79	0.0	2.64
						73.5	0.0	3.80	0.0	0.79	0.0	2.87
						79.6	0.0	3.78	0.0	0.79	0.0	3.11
						85.8	0.0	3.76	0.0	0.79	0.0	3.34
						91.9	0.0	3.74	0.0	0.79	0.0	3.57
						98.0	0.0	3.72	0.0	0.79	0.0	3.79
5	4	3.79	0.0	-1.15e-03	-0.31	0.0	0.0	4.04	0.0	0.79	0.0	-0.01
		-0.01	0.0	0.0	0.0	6.1	0.0	4.02	0.0	0.79	0.0	0.24
						12.3	0.0	4.00	0.0	0.79	0.0	0.48
						18.4	0.0	3.98	0.0	0.79	0.0	0.73
						24.5	0.0	3.96	0.0	0.79	0.0	0.97
						30.6	0.0	3.94	0.0	0.79	0.0	1.21
						36.8	0.0	3.92	0.0	0.79	0.0	1.45
						42.9	0.0	3.90	0.0	0.79	0.0	1.69
						49.0	0.0	3.88	0.0	0.79	0.0	1.93
						55.1	0.0	3.86	0.0	0.79	0.0	2.17
						61.3	0.0	3.84	0.0	0.79	0.0	2.40
						67.4	0.0	3.82	0.0	0.79	0.0	2.64
						73.5	0.0	3.80	0.0	0.79	0.0	2.87
						79.6	0.0	3.78	0.0	0.79	0.0	3.10
						85.8	0.0	3.76	0.0	0.79	0.0	3.33
						91.9	0.0	3.74	0.0	0.79	0.0	3.56
						98.0	0.0	3.72	0.0	0.79	0.0	3.79
5	9	2.53	-0.94	-7.72e-04	-0.24	0.0	0.08	2.71	1.86	0.52	-2.76	-6.81e-03
		-6.81e-03	-2.76	4.75e-04	0.0	6.1	0.08	2.69	1.86	0.52	-2.65	0.16
						12.3	0.08	2.68	1.86	0.52	-2.53	0.32
						18.4	0.08	2.66	1.86	0.52	-2.42	0.49
						24.5	0.08	2.65	1.86	0.52	-2.30	0.65
						30.6	0.08	2.63	1.86	0.52	-2.19	0.81
						36.8	0.08	2.62	1.86	0.52	-2.08	0.97
						42.9	0.08	2.60	1.86	0.52	-1.96	1.13
						49.0	0.08	2.59	1.86	0.52	-1.85	1.29
						55.1	0.08	2.57	1.86	0.52	-1.74	1.45
						61.3	0.08	2.56	1.86	0.52	-1.62	1.60
						67.4	0.08	2.54	1.86	0.52	-1.51	1.76
						73.5	0.08	2.53	1.86	0.52	-1.40	1.92
						79.6	0.08	2.51	1.86	0.52	-1.28	2.07
						85.8	0.08	2.50	1.86	0.52	-1.17	2.22
						91.9	0.08	2.48	1.86	0.52	-1.05	2.38
						98.0	0.08	2.47	1.86	0.52	-0.94	2.53
5	11	2.53	2.74	-7.72e-04	-0.24	0.0	-0.04	2.71	-1.82	0.52	2.74	-6.81e-03
		-6.81e-03	0.96	-4.78e-04	0.0	6.1	-0.04	2.69	-1.82	0.52	2.63	0.16
						12.3	-0.04	2.68	-1.82	0.52	2.51	0.32
						18.4	-0.04	2.66	-1.82	0.52	2.40	0.49
						24.5	-0.04	2.65	-1.82	0.52	2.29	0.65
						30.6	-0.04	2.63	-1.82	0.52	2.18	0.81
						36.8	-0.04	2.62	-1.82	0.52	2.07	0.97
						42.9	-0.04	2.60	-1.82	0.52	1.96	1.13
						49.0	-0.04	2.59	-1.82	0.52	1.85	1.29
						55.1	-0.04	2.57	-1.82	0.52	1.74	1.45

						61.3	-0.04	2.56	-1.82	0.52	1.62	1.60
						67.4	-0.04	2.54	-1.82	0.52	1.51	1.76
						73.5	-0.04	2.53	-1.82	0.52	1.40	1.92
						79.6	-0.04	2.51	-1.82	0.52	1.29	2.07
						85.8	-0.04	2.50	-1.82	0.52	1.18	2.22
						91.9	-0.04	2.48	-1.82	0.52	1.07	2.38
						98.0	-0.04	2.47	-1.82	0.52	0.96	2.53
5	13	2.53	-0.94	-7.72e-04	-0.24	0.0	0.08	2.71	1.86	0.52	-2.76	-6.81e-03
		-6.81e-03	-2.76	4.75e-04	0.0	6.1	0.08	2.69	1.86	0.52	-2.65	0.16
						12.3	0.08	2.68	1.86	0.52	-2.53	0.32
						18.4	0.08	2.66	1.86	0.52	-2.42	0.49
						24.5	0.08	2.65	1.86	0.52	-2.31	0.65
						30.6	0.08	2.63	1.86	0.52	-2.19	0.81
						36.8	0.08	2.62	1.86	0.52	-2.08	0.97
						42.9	0.08	2.60	1.86	0.52	-1.96	1.13
						49.0	0.08	2.59	1.86	0.52	-1.85	1.29
						55.1	0.08	2.57	1.86	0.52	-1.74	1.45
						61.3	0.08	2.56	1.86	0.52	-1.62	1.60
						67.4	0.08	2.54	1.86	0.52	-1.51	1.76
						73.5	0.08	2.53	1.86	0.52	-1.40	1.92
						79.6	0.08	2.51	1.86	0.52	-1.28	2.07
						85.8	0.08	2.50	1.86	0.52	-1.17	2.22
						91.9	0.08	2.48	1.86	0.52	-1.05	2.38
						98.0	0.08	2.47	1.86	0.52	-0.94	2.53
5	16	2.53	2.76	-7.72e-04	-0.24	0.0	-0.08	2.71	-1.86	0.52	2.76	-6.81e-03
		-6.81e-03	0.94	-4.75e-04	0.0	6.1	-0.08	2.69	-1.86	0.52	2.65	0.16
						12.3	-0.08	2.68	-1.86	0.52	2.53	0.32
						18.4	-0.08	2.66	-1.86	0.52	2.42	0.49
						24.5	-0.08	2.65	-1.86	0.52	2.31	0.65
						30.6	-0.08	2.63	-1.86	0.52	2.19	0.81
						36.8	-0.08	2.62	-1.86	0.52	2.08	0.97
						42.9	-0.08	2.60	-1.86	0.52	1.96	1.13
						49.0	-0.08	2.59	-1.86	0.52	1.85	1.29
						55.1	-0.08	2.57	-1.86	0.52	1.74	1.45
						61.3	-0.08	2.56	-1.86	0.52	1.62	1.60
						67.4	-0.08	2.54	-1.86	0.52	1.51	1.76
						73.5	-0.08	2.53	-1.86	0.52	1.40	1.92
						79.6	-0.08	2.51	-1.86	0.52	1.28	2.07
						85.8	-0.08	2.50	-1.86	0.52	1.17	2.22
						91.9	-0.08	2.48	-1.86	0.52	1.05	2.38
						98.0	-0.08	2.47	-1.86	0.52	0.94	2.53
5	33	2.53	-0.26	-7.72e-04	-0.24	0.0	0.10	2.71	0.62	0.52	-0.86	-6.81e-03
		-6.81e-03	-0.86	1.38e-04	0.0	6.1	0.10	2.69	0.62	0.52	-0.83	0.16
						12.3	0.10	2.68	0.62	0.52	-0.79	0.32
						18.4	0.10	2.66	0.62	0.52	-0.75	0.49
						24.5	0.10	2.65	0.62	0.52	-0.71	0.65
						30.6	0.10	2.63	0.62	0.52	-0.67	0.81
						36.8	0.10	2.62	0.62	0.52	-0.64	0.97
						42.9	0.10	2.60	0.62	0.52	-0.60	1.13
						49.0	0.10	2.59	0.62	0.52	-0.56	1.29
						55.1	0.10	2.57	0.62	0.52	-0.52	1.45
						61.3	0.10	2.56	0.62	0.52	-0.49	1.60
						67.4	0.10	2.54	0.62	0.52	-0.45	1.76
						73.5	0.10	2.53	0.62	0.52	-0.41	1.92
						79.6	0.10	2.51	0.62	0.52	-0.37	2.07
						85.8	0.10	2.50	0.62	0.52	-0.33	2.22
						91.9	0.10	2.48	0.62	0.52	-0.30	2.38
						98.0	0.10	2.47	0.62	0.52	-0.26	2.53
5	36	2.53	0.86	-7.72e-04	-0.24	0.0	-0.10	2.71	-0.62	0.52	0.86	-6.81e-03
		-6.81e-03	0.26	-1.38e-04	0.0	6.1	-0.10	2.69	-0.62	0.52	0.83	0.16
						12.3	-0.10	2.68	-0.62	0.52	0.79	0.32
						18.4	-0.10	2.66	-0.62	0.52	0.75	0.49
						24.5	-0.10	2.65	-0.62	0.52	0.71	0.65
						30.6	-0.10	2.63	-0.62	0.52	0.67	0.81
						36.8	-0.10	2.62	-0.62	0.52	0.64	0.97
						42.9	-0.10	2.60	-0.62	0.52	0.60	1.13
						49.0	-0.10	2.59	-0.62	0.52	0.56	1.29
						55.1	-0.10	2.57	-0.62	0.52	0.52	1.45
						61.3	-0.10	2.56	-0.62	0.52	0.49	1.60
						67.4	-0.10	2.54	-0.62	0.52	0.45	1.76
						73.5	-0.10	2.53	-0.62	0.52	0.41	1.92
						79.6	-0.10	2.51	-0.62	0.52	0.37	2.07

						85.8	-0.10	2.50	-0.62	0.52	0.33	2.22
						91.9	-0.10	2.48	-0.62	0.52	0.30	2.38
						98.0	-0.10	2.47	-0.62	0.52	0.26	2.53
5	41	2.53	-0.54	-7.72e-04	-0.24	0.0	0.04	2.71	1.06	0.52	-1.58	-6.81e-03
		-6.81e-03	-1.58	2.72e-04	0.0	6.1	0.04	2.69	1.06	0.52	-1.51	0.16
						12.3	0.04	2.68	1.06	0.52	-1.45	0.32
						18.4	0.04	2.66	1.06	0.52	-1.38	0.49
						24.5	0.04	2.65	1.06	0.52	-1.32	0.65
						30.6	0.04	2.63	1.06	0.52	-1.25	0.81
						36.8	0.04	2.62	1.06	0.52	-1.19	0.97
						42.9	0.04	2.60	1.06	0.52	-1.12	1.13
						49.0	0.04	2.59	1.06	0.52	-1.06	1.29
						55.1	0.04	2.57	1.06	0.52	-0.99	1.45
						61.3	0.04	2.56	1.06	0.52	-0.93	1.60
						67.4	0.04	2.54	1.06	0.52	-0.86	1.76
						73.5	0.04	2.53	1.06	0.52	-0.80	1.92
						79.6	0.04	2.51	1.06	0.52	-0.73	2.07
						85.8	0.04	2.50	1.06	0.52	-0.67	2.22
						91.9	0.04	2.48	1.06	0.52	-0.60	2.38
						98.0	0.04	2.47	1.06	0.52	-0.54	2.53
5	43	2.53	1.56	-7.72e-04	-0.24	0.0	-0.02	2.71	-1.04	0.52	1.56	-6.81e-03
		-6.81e-03	0.55	-2.73e-04	0.0	6.1	-0.02	2.69	-1.04	0.52	1.50	0.16
						12.3	-0.02	2.68	-1.04	0.52	1.44	0.32
						18.4	-0.02	2.66	-1.04	0.52	1.37	0.49
						24.5	-0.02	2.65	-1.04	0.52	1.31	0.65
						30.6	-0.02	2.63	-1.04	0.52	1.25	0.81
						36.8	-0.02	2.62	-1.04	0.52	1.18	0.97
						42.9	-0.02	2.60	-1.04	0.52	1.12	1.13
						49.0	-0.02	2.59	-1.04	0.52	1.06	1.29
						55.1	-0.02	2.57	-1.04	0.52	0.99	1.45
						61.3	-0.02	2.56	-1.04	0.52	0.93	1.60
						67.4	-0.02	2.54	-1.04	0.52	0.86	1.76
						73.5	-0.02	2.53	-1.04	0.52	0.80	1.92
						79.6	-0.02	2.51	-1.04	0.52	0.74	2.07
						85.8	-0.02	2.50	-1.04	0.52	0.67	2.22
						91.9	-0.02	2.48	-1.04	0.52	0.61	2.38
						98.0	-0.02	2.47	-1.04	0.52	0.55	2.53
5	45	2.53	-0.54	-7.72e-04	-0.24	0.0	0.05	2.71	1.06	0.52	-1.58	-6.81e-03
		-6.81e-03	-1.58	2.72e-04	0.0	6.1	0.05	2.69	1.06	0.52	-1.51	0.16
						12.3	0.05	2.68	1.06	0.52	-1.45	0.32
						18.4	0.05	2.66	1.06	0.52	-1.38	0.49
						24.5	0.05	2.65	1.06	0.52	-1.32	0.65
						30.6	0.05	2.63	1.06	0.52	-1.25	0.81
						36.8	0.05	2.62	1.06	0.52	-1.19	0.97
						42.9	0.05	2.60	1.06	0.52	-1.12	1.13
						49.0	0.05	2.59	1.06	0.52	-1.06	1.29
						55.1	0.05	2.57	1.06	0.52	-0.99	1.45
						61.3	0.05	2.56	1.06	0.52	-0.93	1.60
						67.4	0.05	2.54	1.06	0.52	-0.86	1.76
						73.5	0.05	2.53	1.06	0.52	-0.80	1.92
						79.6	0.05	2.51	1.06	0.52	-0.73	2.07
						85.8	0.05	2.50	1.06	0.52	-0.67	2.22
						91.9	0.05	2.48	1.06	0.52	-0.60	2.38
						98.0	0.05	2.47	1.06	0.52	-0.54	2.53
5	48	2.53	1.58	-7.72e-04	-0.24	0.0	-0.05	2.71	-1.06	0.52	1.58	-6.81e-03
		-6.81e-03	0.54	-2.72e-04	0.0	6.1	-0.05	2.69	-1.06	0.52	1.51	0.16
						12.3	-0.05	2.68	-1.06	0.52	1.45	0.32
						18.4	-0.05	2.66	-1.06	0.52	1.38	0.49
						24.5	-0.05	2.65	-1.06	0.52	1.32	0.65
						30.6	-0.05	2.63	-1.06	0.52	1.25	0.81
						36.8	-0.05	2.62	-1.06	0.52	1.19	0.97
						42.9	-0.05	2.60	-1.06	0.52	1.12	1.13
						49.0	-0.05	2.59	-1.06	0.52	1.06	1.29
						55.1	-0.05	2.57	-1.06	0.52	0.99	1.45
						61.3	-0.05	2.56	-1.06	0.52	0.93	1.60
						67.4	-0.05	2.54	-1.06	0.52	0.86	1.76
						73.5	-0.05	2.53	-1.06	0.52	0.80	1.92
						79.6	-0.05	2.51	-1.06	0.52	0.73	2.07
						85.8	-0.05	2.50	-1.06	0.52	0.67	2.22
						91.9	-0.05	2.48	-1.06	0.52	0.60	2.38
						98.0	-0.05	2.47	-1.06	0.52	0.54	2.53
5	65	2.53	-0.15	-7.72e-04	-0.24	0.0	0.05	2.71	0.35	0.52	-0.49	-6.81e-03

		-6.81e-03	-0.49	7.92e-05	0.0	6.1	0.05	2.69	0.35	0.52	-0.47	0.16
						12.3	0.05	2.68	0.35	0.52	-0.45	0.32
						18.4	0.05	2.66	0.35	0.52	-0.43	0.49
						24.5	0.05	2.65	0.35	0.52	-0.41	0.65
						30.6	0.05	2.63	0.35	0.52	-0.39	0.81
						36.8	0.05	2.62	0.35	0.52	-0.36	0.97
						42.9	0.05	2.60	0.35	0.52	-0.34	1.13
						49.0	0.05	2.59	0.35	0.52	-0.32	1.29
						55.1	0.05	2.57	0.35	0.52	-0.30	1.45
						61.3	0.05	2.56	0.35	0.52	-0.28	1.60
						67.4	0.05	2.54	0.35	0.52	-0.26	1.76
						73.5	0.05	2.53	0.35	0.52	-0.23	1.92
						79.6	0.05	2.51	0.35	0.52	-0.21	2.07
						85.8	0.05	2.50	0.35	0.52	-0.19	2.22
						91.9	0.05	2.48	0.35	0.52	-0.17	2.38
						98.0	0.05	2.47	0.35	0.52	-0.15	2.53
5	68	2.53	0.49	-7.72e-04	-0.24	0.0	-0.05	2.71	-0.35	0.52	0.49	-6.81e-03
		-6.81e-03	0.15	-7.92e-05	0.0	6.1	-0.05	2.69	-0.35	0.52	0.47	0.16
						12.3	-0.05	2.68	-0.35	0.52	0.45	0.32
						18.4	-0.05	2.66	-0.35	0.52	0.43	0.49
						24.5	-0.05	2.65	-0.35	0.52	0.41	0.65
						30.6	-0.05	2.63	-0.35	0.52	0.39	0.81
						36.8	-0.05	2.62	-0.35	0.52	0.36	0.97
						42.9	-0.05	2.60	-0.35	0.52	0.34	1.13
						49.0	-0.05	2.59	-0.35	0.52	0.32	1.29
						55.1	-0.05	2.57	-0.35	0.52	0.30	1.45
						61.3	-0.05	2.56	-0.35	0.52	0.28	1.60
						67.4	-0.05	2.54	-0.35	0.52	0.26	1.76
						73.5	-0.05	2.53	-0.35	0.52	0.23	1.92
						79.6	-0.05	2.51	-0.35	0.52	0.21	2.07
						85.8	-0.05	2.50	-0.35	0.52	0.19	2.22
						91.9	-0.05	2.48	-0.35	0.52	0.17	2.38
						98.0	-0.05	2.47	-0.35	0.52	0.15	2.53
5	73	1.64	0.0	-5.12e-04	-0.24	0.0	0.0	1.80	0.0	0.32	0.0	-4.14e-03
		-4.14e-03	0.0	0.0	0.0	6.1	0.0	1.79	0.0	0.32	0.0	0.11
						12.3	0.0	1.77	0.0	0.32	0.0	0.21
						18.4	0.0	1.76	0.0	0.32	0.0	0.32
						24.5	0.0	1.74	0.0	0.32	0.0	0.43
						30.6	0.0	1.73	0.0	0.32	0.0	0.54
						36.8	0.0	1.71	0.0	0.32	0.0	0.64
						42.9	0.0	1.70	0.0	0.32	0.0	0.75
						49.0	0.0	1.68	0.0	0.32	0.0	0.85
						55.1	0.0	1.67	0.0	0.32	0.0	0.95
						61.3	0.0	1.65	0.0	0.32	0.0	1.05
						67.4	0.0	1.64	0.0	0.32	0.0	1.15
						73.5	0.0	1.62	0.0	0.32	0.0	1.25
						79.6	0.0	1.61	0.0	0.32	0.0	1.35
						85.8	0.0	1.59	0.0	0.32	0.0	1.45
						91.9	0.0	1.58	0.0	0.32	0.0	1.55
						98.0	0.0	1.56	0.0	0.32	0.0	1.64
5	74	2.53	0.0	-7.72e-04	-0.24	0.0	0.0	2.70	0.0	0.52	0.0	-4.18e-03
		-4.18e-03	0.0	0.0	0.0	6.1	0.0	2.69	0.0	0.52	0.0	0.16
						12.3	0.0	2.67	0.0	0.52	0.0	0.33
						18.4	0.0	2.66	0.0	0.52	0.0	0.49
						24.5	0.0	2.64	0.0	0.52	0.0	0.65
						30.6	0.0	2.63	0.0	0.52	0.0	0.81
						36.8	0.0	2.61	0.0	0.52	0.0	0.97
						42.9	0.0	2.60	0.0	0.52	0.0	1.13
						49.0	0.0	2.58	0.0	0.52	0.0	1.29
						55.1	0.0	2.57	0.0	0.52	0.0	1.45
						61.3	0.0	2.55	0.0	0.52	0.0	1.61
						67.4	0.0	2.54	0.0	0.52	0.0	1.76
						73.5	0.0	2.52	0.0	0.52	0.0	1.92
						79.6	0.0	2.51	0.0	0.52	0.0	2.07
						85.8	0.0	2.49	0.0	0.52	0.0	2.22
						91.9	0.0	2.48	0.0	0.52	0.0	2.38
						98.0	0.0	2.46	0.0	0.52	0.0	2.53
5	76	2.53	0.0	-7.72e-04	-0.24	0.0	0.0	2.71	0.0	0.52	0.0	-6.81e-03
		-6.81e-03	0.0	0.0	0.0	6.1	0.0	2.69	0.0	0.52	0.0	0.16
						12.3	0.0	2.68	0.0	0.52	0.0	0.32
						18.4	0.0	2.66	0.0	0.52	0.0	0.49
						24.5	0.0	2.65	0.0	0.52	0.0	0.65

						30.6	0.0	2.63	0.0	0.52	0.0	0.81
						36.8	0.0	2.62	0.0	0.52	0.0	0.97
						42.9	0.0	2.60	0.0	0.52	0.0	1.13
						49.0	0.0	2.59	0.0	0.52	0.0	1.29
						55.1	0.0	2.57	0.0	0.52	0.0	1.45
						61.3	0.0	2.56	0.0	0.52	0.0	1.60
						67.4	0.0	2.54	0.0	0.52	0.0	1.76
						73.5	0.0	2.53	0.0	0.52	0.0	1.92
						79.6	0.0	2.51	0.0	0.52	0.0	2.07
						85.8	0.0	2.50	0.0	0.52	0.0	2.22
						91.9	0.0	2.48	0.0	0.52	0.0	2.38
						98.0	0.0	2.47	0.0	0.52	0.0	2.53
6	1	93.88	0.0	-0.02	-117.00	0.0	0.0	54.05	0.0	0.0	0.0	24.72
		0.0	0.0	0.0	0.0	34.7	0.0	46.74	0.0	0.0	0.0	42.22
						69.4	0.0	39.42	0.0	0.0	0.0	57.17
						104.2	0.0	32.11	0.0	0.0	0.0	69.59
						138.9	0.0	24.80	0.0	0.0	0.0	79.47
						173.6	0.0	17.49	0.0	0.0	0.0	86.82
						208.3	0.0	10.18	0.0	0.0	0.0	91.62
						243.1	0.0	2.86	0.0	0.0	0.0	93.88
						277.8	0.0	-4.45	0.0	0.0	0.0	93.61
						312.5	0.0	-11.76	0.0	0.0	0.0	90.79
						347.2	0.0	-19.07	0.0	0.0	0.0	85.44
						382.0	0.0	-26.39	0.0	0.0	0.0	77.55
						416.7	0.0	-33.70	0.0	0.0	0.0	67.12
						451.4	0.0	-41.01	0.0	0.0	0.0	54.15
						486.1	0.0	-48.32	0.0	0.0	0.0	38.64
						520.8	0.0	-55.63	0.0	0.0	0.0	20.59
						555.6	0.0	-62.95	0.0	0.0	0.0	0.0
6	4	182.01	0.0	-0.03	-227.00	0.0	0.0	104.91	0.0	0.0	0.0	47.70
		0.0	0.0	0.0	0.0	34.7	0.0	90.73	0.0	0.0	0.0	81.66
						69.4	0.0	76.54	0.0	0.0	0.0	110.70
						104.2	0.0	62.35	0.0	0.0	0.0	134.82
						138.9	0.0	48.16	0.0	0.0	0.0	154.00
						173.6	0.0	33.98	0.0	0.0	0.0	168.26
						208.3	0.0	19.79	0.0	0.0	0.0	177.60
						243.1	0.0	5.60	0.0	0.0	0.0	182.01
						277.8	0.0	-8.59	0.0	0.0	0.0	181.49
						312.5	0.0	-22.77	0.0	0.0	0.0	176.04
						347.2	0.0	-36.96	0.0	0.0	0.0	165.67
						382.0	0.0	-51.15	0.0	0.0	0.0	150.38
						416.7	0.0	-65.33	0.0	0.0	0.0	130.15
						451.4	0.0	-79.52	0.0	0.0	0.0	105.00
						486.1	0.0	-93.71	0.0	0.0	0.0	74.93
						520.8	0.0	-107.90	0.0	0.0	0.0	39.93
						555.6	0.0	-122.08	0.0	0.0	0.0	0.0
6	6	72.41	0.0	-0.01	-90.00	0.0	0.0	41.51	0.0	0.0	0.0	19.36
		0.0	0.0	0.0	0.0	34.7	0.0	35.89	0.0	0.0	0.0	32.80
						69.4	0.0	30.26	0.0	0.0	0.0	44.29
						104.2	0.0	24.64	0.0	0.0	0.0	53.82
						138.9	0.0	19.01	0.0	0.0	0.0	61.40
						173.6	0.0	13.39	0.0	0.0	0.0	67.02
						208.3	0.0	7.76	0.0	0.0	0.0	70.69
						243.1	0.0	2.14	0.0	0.0	0.0	72.41
						277.8	0.0	-3.49	0.0	0.0	0.0	72.18
						312.5	0.0	-9.11	0.0	0.0	0.0	69.99
						347.2	0.0	-14.73	0.0	0.0	0.0	65.85
						382.0	0.0	-20.36	0.0	0.0	0.0	59.76
						416.7	0.0	-25.98	0.0	0.0	0.0	51.71
						451.4	0.0	-31.61	0.0	0.0	0.0	41.72
						486.1	0.0	-37.23	0.0	0.0	0.0	29.76
						520.8	0.0	-42.86	0.0	0.0	0.0	15.86
						555.6	0.0	-48.48	0.0	0.0	0.0	0.0
6	9	119.22	0.0	-0.02	-148.66	0.0	-0.36	68.70	1.03	0.0	-5.71	31.27
		0.0	-5.71	1.61e-03	0.0	34.7	-0.36	59.41	1.03	0.0	-5.35	53.51
						69.4	-0.36	50.12	1.03	0.0	-5.00	72.53
						104.2	-0.36	40.83	1.03	0.0	-4.64	88.32
						138.9	-0.36	31.54	1.03	0.0	-4.28	100.88
						173.6	-0.36	22.25	1.03	0.0	-3.92	110.22
						208.3	-0.36	12.95	1.03	0.0	-3.57	116.33
						243.1	-0.36	3.66	1.03	0.0	-3.21	119.22
						277.8	-0.36	-5.63	1.03	0.0	-2.85	118.88

						312.5	-0.36	-14.92	1.03	0.0	-2.50	115.31
						347.2	-0.36	-24.21	1.03	0.0	-2.14	108.51
						382.0	-0.36	-33.50	1.03	0.0	-1.78	98.49
						416.7	-0.36	-42.79	1.03	0.0	-1.43	85.25
						451.4	-0.36	-52.09	1.03	0.0	-1.07	68.78
						486.1	-0.36	-61.38	1.03	0.0	-0.71	49.08
						520.8	-0.36	-70.67	1.03	0.0	-0.36	26.15
						555.6	-0.36	-79.96	1.03	0.0	0.0	0.0
6	10	119.22	0.0	-0.02	-148.66	0.0	-0.01	68.70	1.03	0.0	-5.71	31.27
		0.0	-5.71	1.61e-03	0.0	34.7	-0.01	59.41	1.03	0.0	-5.36	53.51
						69.4	-0.01	50.12	1.03	0.0	-5.00	72.53
						104.2	-0.01	40.83	1.03	0.0	-4.64	88.32
						138.9	-0.01	31.54	1.03	0.0	-4.28	100.88
						173.6	-0.01	22.25	1.03	0.0	-3.93	110.22
						208.3	-0.01	12.95	1.03	0.0	-3.57	116.33
						243.1	-0.01	3.66	1.03	0.0	-3.21	119.22
						277.8	-0.01	-5.63	1.03	0.0	-2.86	118.88
						312.5	-0.01	-14.92	1.03	0.0	-2.50	115.31
						347.2	-0.01	-24.21	1.03	0.0	-2.14	108.51
						382.0	-0.01	-33.50	1.03	0.0	-1.79	98.49
						416.7	-0.01	-42.79	1.03	0.0	-1.43	85.25
						451.4	-0.01	-52.09	1.03	0.0	-1.07	68.78
						486.1	-0.01	-61.38	1.03	0.0	-0.71	49.08
						520.8	-0.01	-70.67	1.03	0.0	-0.36	26.15
						555.6	-0.01	-79.96	1.03	0.0	0.0	0.0
6	11	119.22	5.71	-0.02	-148.66	0.0	0.01	68.70	-1.03	0.0	5.71	31.27
		0.0	0.0	-1.61e-03	0.0	34.7	0.01	59.41	-1.03	0.0	5.36	53.51
						69.4	0.01	50.12	-1.03	0.0	5.00	72.53
						104.2	0.01	40.83	-1.03	0.0	4.64	88.32
						138.9	0.01	31.54	-1.03	0.0	4.28	100.88
						173.6	0.01	22.25	-1.03	0.0	3.93	110.22
						208.3	0.01	12.95	-1.03	0.0	3.57	116.33
						243.1	0.01	3.66	-1.03	0.0	3.21	119.22
						277.8	0.01	-5.63	-1.03	0.0	2.86	118.88
						312.5	0.01	-14.92	-1.03	0.0	2.50	115.31
						347.2	0.01	-24.21	-1.03	0.0	2.14	108.51
						382.0	0.01	-33.50	-1.03	0.0	1.79	98.49
						416.7	0.01	-42.79	-1.03	0.0	1.43	85.25
						451.4	0.01	-52.09	-1.03	0.0	1.07	68.78
						486.1	0.01	-61.38	-1.03	0.0	0.71	49.08
						520.8	0.01	-70.67	-1.03	0.0	0.36	26.15
						555.6	0.01	-79.96	-1.03	0.0	0.0	0.0
6	33	119.22	0.0	-0.02	-148.66	0.0	-0.76	68.70	0.31	0.0	-1.71	31.27
		0.0	-1.71	4.81e-04	0.0	34.7	-0.76	59.41	0.31	0.0	-1.60	53.51
						69.4	-0.76	50.12	0.31	0.0	-1.49	72.53
						104.2	-0.76	40.83	0.31	0.0	-1.39	88.32
						138.9	-0.76	31.54	0.31	0.0	-1.28	100.88
						173.6	-0.76	22.25	0.31	0.0	-1.17	110.22
						208.3	-0.76	12.95	0.31	0.0	-1.07	116.33
						243.1	-0.76	3.66	0.31	0.0	-0.96	119.22
						277.8	-0.76	-5.63	0.31	0.0	-0.85	118.88
						312.5	-0.76	-14.92	0.31	0.0	-0.75	115.31
						347.2	-0.76	-24.21	0.31	0.0	-0.64	108.51
						382.0	-0.76	-33.50	0.31	0.0	-0.53	98.49
						416.7	-0.76	-42.79	0.31	0.0	-0.43	85.25
						451.4	-0.76	-52.09	0.31	0.0	-0.32	68.78
						486.1	-0.76	-61.38	0.31	0.0	-0.21	49.08
						520.8	-0.76	-70.67	0.31	0.0	-0.11	26.15
						555.6	-0.76	-79.96	0.31	0.0	0.0	0.0
6	36	119.22	1.71	-0.02	-148.66	0.0	0.76	68.70	-0.31	0.0	1.71	31.27
		0.0	0.0	-4.81e-04	0.0	34.7	0.76	59.41	-0.31	0.0	1.60	53.51
						69.4	0.76	50.12	-0.31	0.0	1.49	72.53
						104.2	0.76	40.83	-0.31	0.0	1.39	88.32
						138.9	0.76	31.54	-0.31	0.0	1.28	100.88
						173.6	0.76	22.25	-0.31	0.0	1.17	110.22
						208.3	0.76	12.95	-0.31	0.0	1.07	116.33
						243.1	0.76	3.66	-0.31	0.0	0.96	119.22
						277.8	0.76	-5.63	-0.31	0.0	0.85	118.88
						312.5	0.76	-14.92	-0.31	0.0	0.75	115.31
						347.2	0.76	-24.21	-0.31	0.0	0.64	108.51
						382.0	0.76	-33.50	-0.31	0.0	0.53	98.49
						416.7	0.76	-42.79	-0.31	0.0	0.43	85.25

						451.4	0.76	-52.09	-0.31	0.0	0.32	68.78
						486.1	0.76	-61.38	-0.31	0.0	0.21	49.08
						520.8	0.76	-70.67	-0.31	0.0	0.11	26.15
						555.6	0.76	-79.96	-0.31	0.0	0.0	0.0
6	41	119.22	0.0	-0.02	-148.66	0.0	-0.20	68.70	0.59	0.0	-3.26	31.27
						34.7	-0.20	59.41	0.59	0.0	-3.06	53.51
						69.4	-0.20	50.12	0.59	0.0	-2.85	72.53
						104.2	-0.20	40.83	0.59	0.0	-2.65	88.32
						138.9	-0.20	31.54	0.59	0.0	-2.45	100.88
						173.6	-0.20	22.25	0.59	0.0	-2.24	110.22
						208.3	-0.20	12.95	0.59	0.0	-2.04	116.33
						243.1	-0.20	3.66	0.59	0.0	-1.83	119.22
						277.8	-0.20	-5.63	0.59	0.0	-1.63	118.88
						312.5	-0.20	-14.92	0.59	0.0	-1.43	115.31
						347.2	-0.20	-24.21	0.59	0.0	-1.22	108.51
						382.0	-0.20	-33.50	0.59	0.0	-1.02	98.49
						416.7	-0.20	-42.79	0.59	0.0	-0.82	85.25
						451.4	-0.20	-52.09	0.59	0.0	-0.61	68.78
						486.1	-0.20	-61.38	0.59	0.0	-0.41	49.08
						520.8	-0.20	-70.67	0.59	0.0	-0.20	26.15
						555.6	-0.20	-79.96	0.59	0.0	0.0	0.0
						0.0	-0.01	68.70	0.59	0.0	-3.26	31.27
						34.7	-0.01	59.41	0.59	0.0	-3.06	53.51
						69.4	-0.01	50.12	0.59	0.0	-2.86	72.53
						104.2	-0.01	40.83	0.59	0.0	-2.65	88.32
6	42	119.22	0.0	-0.02	-148.66	138.9	-0.01	31.54	0.59	0.0	-2.45	100.88
						173.6	-0.01	22.25	0.59	0.0	-2.24	110.22
						208.3	-0.01	12.95	0.59	0.0	-2.04	116.33
						243.1	-0.01	3.66	0.59	0.0	-1.84	119.22
						277.8	-0.01	-5.63	0.59	0.0	-1.63	118.88
						312.5	-0.01	-14.92	0.59	0.0	-1.43	115.31
						347.2	-0.01	-24.21	0.59	0.0	-1.22	108.51
						382.0	-0.01	-33.50	0.59	0.0	-1.02	98.49
						416.7	-0.01	-42.79	0.59	0.0	-0.82	85.25
						451.4	-0.01	-52.09	0.59	0.0	-0.61	68.78
						486.1	-0.01	-61.38	0.59	0.0	-0.41	49.08
						520.8	-0.01	-70.67	0.59	0.0	-0.20	26.15
						555.6	-0.01	-79.96	0.59	0.0	0.0	0.0
						0.0	0.01	68.70	-0.59	0.0	3.26	31.27
						34.7	0.01	59.41	-0.59	0.0	3.06	53.51
						69.4	0.01	50.12	-0.59	0.0	2.86	72.53
						104.2	0.01	40.83	-0.59	0.0	2.65	88.32
						138.9	0.01	31.54	-0.59	0.0	2.45	100.88
						173.6	0.01	22.25	-0.59	0.0	2.24	110.22
						208.3	0.01	12.95	-0.59	0.0	2.04	116.33
6	43	119.22	3.26	-0.02	-148.66	243.1	0.01	3.66	-0.59	0.0	1.84	119.22
						277.8	0.01	-5.63	-0.59	0.0	1.63	118.88
						312.5	0.01	-14.92	-0.59	0.0	1.43	115.31
						347.2	0.01	-24.21	-0.59	0.0	1.22	108.51
						382.0	0.01	-33.50	-0.59	0.0	1.02	98.49
						416.7	0.01	-42.79	-0.59	0.0	0.82	85.25
						451.4	0.01	-52.09	-0.59	0.0	0.61	68.78
						486.1	0.01	-61.38	-0.59	0.0	0.41	49.08
						520.8	0.01	-70.67	-0.59	0.0	0.20	26.15
						555.6	0.01	-79.96	-0.59	0.0	0.0	0.0
						0.0	-0.42	68.70	0.18	0.0	-0.97	31.27
						34.7	-0.42	59.41	0.18	0.0	-0.91	53.51
						69.4	-0.42	50.12	0.18	0.0	-0.85	72.53
						104.2	-0.42	40.83	0.18	0.0	-0.79	88.32
						138.9	-0.42	31.54	0.18	0.0	-0.73	100.88
						173.6	-0.42	22.25	0.18	0.0	-0.67	110.22
						208.3	-0.42	12.95	0.18	0.0	-0.61	116.33
						243.1	-0.42	3.66	0.18	0.0	-0.55	119.22
						277.8	-0.42	-5.63	0.18	0.0	-0.49	118.88
						312.5	-0.42	-14.92	0.18	0.0	-0.43	115.31
6	65	119.22	0.0	-0.02	-148.66	347.2	-0.42	-24.21	0.18	0.0	-0.37	108.51
						382.0	-0.42	-33.50	0.18	0.0	-0.30	98.49
						416.7	-0.42	-42.79	0.18	0.0	-0.24	85.25
						451.4	-0.42	-52.09	0.18	0.0	-0.18	68.78
						486.1	-0.42	-61.38	0.18	0.0	-0.12	49.08
						520.8	-0.42	-70.67	0.18	0.0	-0.06	26.15
						555.6	-0.42	-79.96	0.18	0.0	0.0	0.0
						0.0	-0.42	68.70	0.18	0.0	-0.97	31.27
						34.7	-0.42	59.41	0.18	0.0	-0.91	53.51
						69.4	-0.42	50.12	0.18	0.0	-0.85	72.53

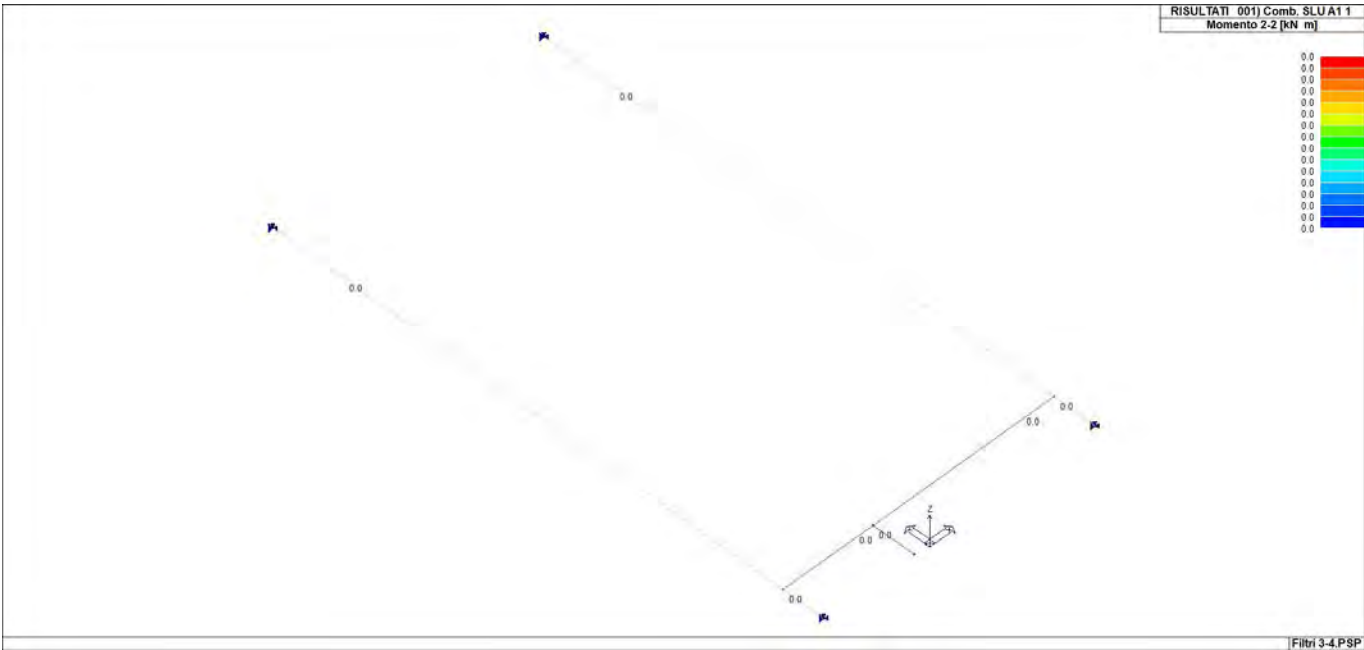
6	68	119.22	0.97	-0.02	-148.66	0.0	0.42	68.70	-0.18	0.0	0.97	31.27
		0.0	0.0	-2.75e-04	0.0	34.7	0.42	59.41	-0.18	0.0	0.91	53.51
						69.4	0.42	50.12	-0.18	0.0	0.85	72.53
						104.2	0.42	40.83	-0.18	0.0	0.79	88.32
						138.9	0.42	31.54	-0.18	0.0	0.73	100.88
						173.6	0.42	22.25	-0.18	0.0	0.67	110.22
						208.3	0.42	12.95	-0.18	0.0	0.61	116.33
						243.1	0.42	3.66	-0.18	0.0	0.55	119.22
						277.8	0.42	-5.63	-0.18	0.0	0.49	118.88
						312.5	0.42	-14.92	-0.18	0.0	0.43	115.31
						347.2	0.42	-24.21	-0.18	0.0	0.37	108.51
						382.0	0.42	-33.50	-0.18	0.0	0.30	98.49
						416.7	0.42	-42.79	-0.18	0.0	0.24	85.25
						451.4	0.42	-52.09	-0.18	0.0	0.18	68.78
						486.1	0.42	-61.38	-0.18	0.0	0.12	49.08
						520.8	0.42	-70.67	-0.18	0.0	0.06	26.15
						555.6	0.42	-79.96	-0.18	0.0	0.0	0.0
6	73	72.22	0.0	-0.01	-90.00	0.0	0.0	41.58	0.0	0.0	0.0	19.01
		0.0	0.0	0.0	0.0	34.7	0.0	35.95	0.0	0.0	0.0	32.47
						69.4	0.0	30.33	0.0	0.0	0.0	43.98
						104.2	0.0	24.70	0.0	0.0	0.0	53.53
						138.9	0.0	19.08	0.0	0.0	0.0	61.13
						173.6	0.0	13.45	0.0	0.0	0.0	66.78
						208.3	0.0	7.83	0.0	0.0	0.0	70.48
						243.1	0.0	2.20	0.0	0.0	0.0	72.22
						277.8	0.0	-3.42	0.0	0.0	0.0	72.01
						312.5	0.0	-9.05	0.0	0.0	0.0	69.84
						347.2	0.0	-14.67	0.0	0.0	0.0	65.72
						382.0	0.0	-20.30	0.0	0.0	0.0	59.65
						416.7	0.0	-25.92	0.0	0.0	0.0	51.63
						451.4	0.0	-31.55	0.0	0.0	0.0	41.65
						486.1	0.0	-37.17	0.0	0.0	0.0	29.72
						520.8	0.0	-42.80	0.0	0.0	0.0	15.84
						555.6	0.0	-48.42	0.0	0.0	0.0	0.0
6	74	72.32	0.0	-0.01	-90.00	0.0	0.0	41.54	0.0	0.0	0.0	19.20
		0.0	0.0	0.0	0.0	34.7	0.0	35.92	0.0	0.0	0.0	32.65
						69.4	0.0	30.29	0.0	0.0	0.0	44.149
						104.2	0.0	24.67	0.0	0.0	0.0	53.68
						138.9	0.0	19.04	0.0	0.0	0.0	61.27
						173.6	0.0	13.42	0.0	0.0	0.0	66.91
						208.3	0.0	7.79	0.0	0.0	0.0	70.59
						243.1	0.0	2.17	0.0	0.0	0.0	72.32
						277.8	0.0	-3.46	0.0	0.0	0.0	72.10
						312.5	0.0	-9.08	0.0	0.0	0.0	69.92
						347.2	0.0	-14.71	0.0	0.0	0.0	65.79
						382.0	0.0	-20.33	0.0	0.0	0.0	59.71
						416.7	0.0	-25.95	0.0	0.0	0.0	51.67
						451.4	0.0	-31.58	0.0	0.0	0.0	41.68
						486.1	0.0	-37.20	0.0	0.0	0.0	29.74
						520.8	0.0	-42.83	0.0	0.0	0.0	15.85
						555.6	0.0	-48.45	0.0	0.0	0.0	0.0
6	76	119.22	0.0	-0.02	-148.66	0.0	0.0	68.70	0.0	0.0	0.0	31.27
		0.0	0.0	0.0	0.0	34.7	0.0	59.41	0.0	0.0	0.0	53.51
						69.4	0.0	50.12	0.0	0.0	0.0	72.53
						104.2	0.0	40.83	0.0	0.0	0.0	88.32
						138.9	0.0	31.54	0.0	0.0	0.0	100.88
						173.6	0.0	22.25	0.0	0.0	0.0	110.22
						208.3	0.0	12.95	0.0	0.0	0.0	116.33
						243.1	0.0	3.66	0.0	0.0	0.0	119.22
						277.8	0.0	-5.63	0.0	0.0	0.0	118.88
						312.5	0.0	-14.92	0.0	0.0	0.0	115.31
						347.2	0.0	-24.21	0.0	0.0	0.0	108.51
						382.0	0.0	-33.50	0.0	0.0	0.0	98.49
						416.7	0.0	-42.79	0.0	0.0	0.0	85.25
						451.4	0.0	-52.09	0.0	0.0	0.0	68.78
						486.1	0.0	-61.38	0.0	0.0	0.0	49.08
						520.8	0.0	-70.67	0.0	0.0	0.0	26.15
						555.6	0.0	-79.96	0.0	0.0	0.0	0.0
7	1	2.14	0.0	6.76e-04	-0.63	0.0	0.0	-0.77	0.0	-0.21	0.0	2.14
		5.34e-03	0.0	0.0	0.0	12.3	0.0	-0.81	0.0	-0.21	0.0	2.04
						24.6	0.0	-0.85	0.0	-0.21	0.0	1.94
						36.9	0.0	-0.89	0.0	-0.21	0.0	1.83

						49.3	0.0	-0.93	0.0	-0.21	0.0	1.72
						61.6	0.0	-0.96	0.0	-0.21	0.0	1.60
						73.9	0.0	-1.00	0.0	-0.21	0.0	1.48
						86.2	0.0	-1.04	0.0	-0.21	0.0	1.36
						98.5	0.0	-1.08	0.0	-0.21	0.0	1.23
						110.8	0.0	-1.12	0.0	-0.21	0.0	1.09
						123.1	0.0	-1.16	0.0	-0.21	0.0	0.95
						135.4	0.0	-1.20	0.0	-0.21	0.0	0.80
						147.8	0.0	-1.24	0.0	-0.21	0.0	0.65
						160.1	0.0	-1.28	0.0	-0.21	0.0	0.50
						172.4	0.0	-1.32	0.0	-0.21	0.0	0.34
						184.7	0.0	-1.36	0.0	-0.21	0.0	0.17
						197.0	0.0	-1.40	0.0	-0.21	0.0	5.34e-03
7	2	3.79	0.0	1.17e-03	-0.63	0.0	0.0	-1.61	0.0	-0.39	0.0	3.79
		5.38e-03	0.0	0.0	0.0	12.3	0.0	-1.65	0.0	-0.39	0.0	3.59
						24.6	0.0	-1.69	0.0	-0.39	0.0	3.39
						36.9	0.0	-1.73	0.0	-0.39	0.0	3.18
						49.3	0.0	-1.77	0.0	-0.39	0.0	2.96
						61.6	0.0	-1.81	0.0	-0.39	0.0	2.74
						73.9	0.0	-1.85	0.0	-0.39	0.0	2.52
						86.2	0.0	-1.88	0.0	-0.39	0.0	2.29
						98.5	0.0	-1.92	0.0	-0.39	0.0	2.05
						110.8	0.0	-1.96	0.0	-0.39	0.0	1.82
						123.1	0.0	-2.00	0.0	-0.39	0.0	1.57
						135.4	0.0	-2.04	0.0	-0.39	0.0	1.32
						147.8	0.0	-2.08	0.0	-0.39	0.0	1.07
						160.1	0.0	-2.12	0.0	-0.39	0.0	0.81
						172.4	0.0	-2.16	0.0	-0.39	0.0	0.55
						184.7	0.0	-2.20	0.0	-0.39	0.0	0.28
						197.0	0.0	-2.24	0.0	-0.39	0.0	5.38e-03
7	5	1.64	0.0	5.20e-04	-0.48	0.0	0.0	-0.59	0.0	-0.16	0.0	1.64
		4.11e-03	0.0	0.0	0.0	12.3	0.0	-0.62	0.0	-0.16	0.0	1.57
						24.6	0.0	-0.65	0.0	-0.16	0.0	1.49
						36.9	0.0	-0.68	0.0	-0.16	0.0	1.41
						49.3	0.0	-0.71	0.0	-0.16	0.0	1.32
						61.6	0.0	-0.74	0.0	-0.16	0.0	1.23
						73.9	0.0	-0.77	0.0	-0.16	0.0	1.12
						86.2	0.0	-0.80	0.0	-0.16	0.0	1.04
						98.5	0.0	-0.83	0.0	-0.16	0.0	0.94
						110.8	0.0	-0.86	0.0	-0.16	0.0	0.84
						123.1	0.0	-0.89	0.0	-0.16	0.0	0.73
						135.4	0.0	-0.92	0.0	-0.16	0.0	0.62
						147.8	0.0	-0.95	0.0	-0.16	0.0	0.50
						160.1	0.0	-0.98	0.0	-0.16	0.0	0.38
						172.4	0.0	-1.01	0.0	-0.16	0.0	0.26
						184.7	0.0	-1.04	0.0	-0.16	0.0	0.13
						197.0	0.0	-1.07	0.0	-0.16	0.0	4.11e-03
7	9	2.53	2.77	7.85e-04	-0.48	0.0	-0.06	-1.04	1.88	-0.26	-0.93	2.53
		6.76e-03	-0.93	-8.41e-04	0.0	12.3	-0.06	-1.07	1.88	-0.26	-0.70	2.40
						24.6	-0.06	-1.10	1.88	-0.26	-0.47	2.26
						36.9	-0.06	-1.13	1.88	-0.26	-0.24	2.13
						49.3	-0.06	-1.16	1.88	-0.26	-6.07e-03	1.99
						61.6	-0.06	-1.19	1.88	-0.26	0.23	1.84
						73.9	-0.06	-1.22	1.88	-0.26	0.46	1.69
						86.2	-0.06	-1.25	1.88	-0.26	0.69	1.54
						98.5	-0.06	-1.28	1.88	-0.26	0.92	1.39
						110.8	-0.06	-1.31	1.88	-0.26	1.15	1.23
						123.1	-0.06	-1.34	1.88	-0.26	1.38	1.06
						135.4	-0.06	-1.37	1.88	-0.26	1.61	0.90
						147.8	-0.06	-1.40	1.88	-0.26	1.85	0.73
						160.1	-0.06	-1.43	1.88	-0.26	2.08	0.55
						172.4	-0.06	-1.46	1.88	-0.26	2.31	0.37
						184.7	-0.06	-1.49	1.88	-0.26	2.54	0.19
						197.0	-0.06	-1.52	1.88	-0.26	2.77	6.76e-03
7	11	2.53	0.95	7.85e-04	-0.48	0.0	0.11	-1.04	-1.89	-0.26	0.95	2.53
		6.76e-03	-2.78	8.44e-04	0.0	12.3	0.11	-1.07	-1.89	-0.26	0.71	2.40
						24.6	0.11	-1.10	-1.89	-0.26	0.48	2.26
						36.9	0.11	-1.13	-1.89	-0.26	0.25	2.13
						49.3	0.11	-1.16	-1.89	-0.26	0.01	1.99
						61.6	0.11	-1.19	-1.89	-0.26	-0.22	1.84
						73.9	0.11	-1.22	-1.89	-0.26	-0.45	1.69
						86.2	0.11	-1.25	-1.89	-0.26	-0.68	1.54

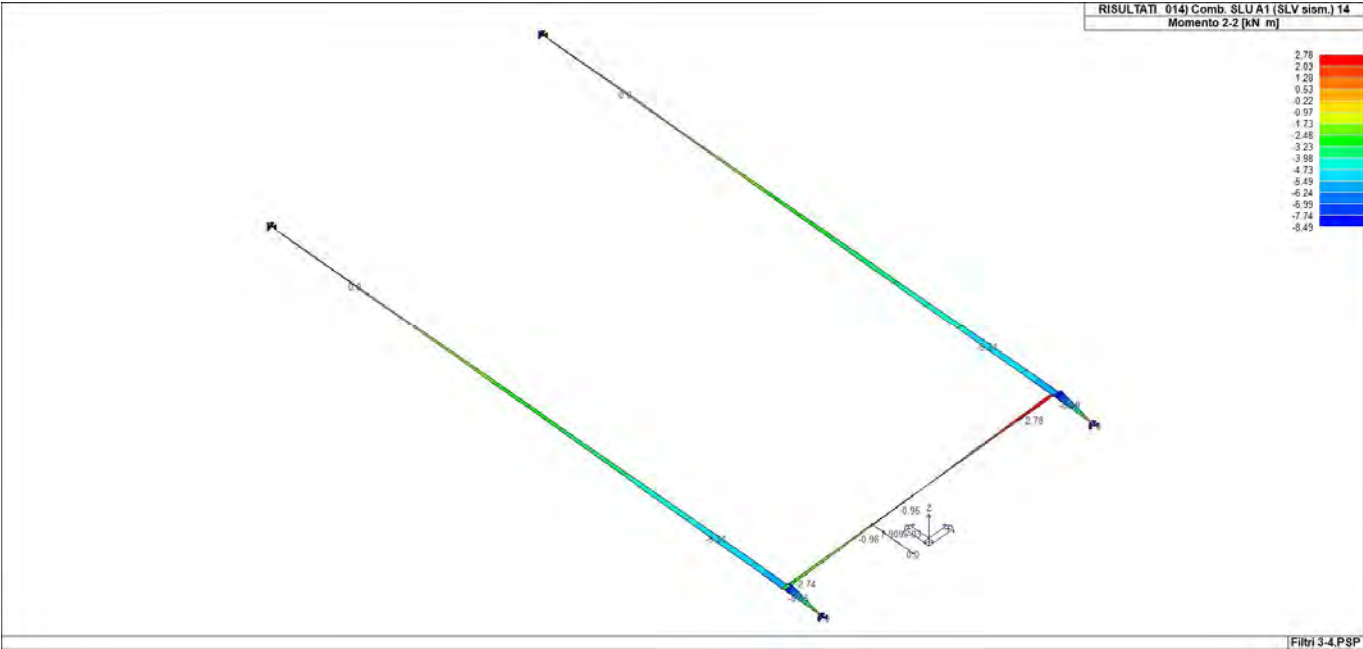
						98.5	0.11	-1.28	-1.89	-0.26	-0.92	1.39
						110.8	0.11	-1.31	-1.89	-0.26	-1.15	1.23
						123.1	0.11	-1.34	-1.89	-0.26	-1.38	1.06
						135.4	0.11	-1.37	-1.89	-0.26	-1.62	0.90
						147.8	0.11	-1.40	-1.89	-0.26	-1.85	0.73
						160.1	0.11	-1.43	-1.89	-0.26	-2.08	0.55
						172.4	0.11	-1.46	-1.89	-0.26	-2.32	0.37
						184.7	0.11	-1.49	-1.89	-0.26	-2.55	0.19
						197.0	0.11	-1.52	-1.89	-0.26	-2.78	6.76e-03
7	12	2.53	0.93	7.85e-04	-0.48	0.0	0.06	-1.04	-1.88	-0.26	0.93	2.53
		6.76e-03	-2.77	8.41e-04	0.0	12.3	0.06	-1.07	-1.88	-0.26	0.70	2.40
						24.6	0.06	-1.10	-1.88	-0.26	0.47	2.26
						36.9	0.06	-1.13	-1.88	-0.26	0.24	2.13
						49.3	0.06	-1.16	-1.88	-0.26	6.07e-03	1.99
						61.6	0.06	-1.19	-1.88	-0.26	-0.23	1.84
						73.9	0.06	-1.22	-1.88	-0.26	-0.46	1.69
						86.2	0.06	-1.25	-1.88	-0.26	-0.69	1.54
						98.5	0.06	-1.28	-1.88	-0.26	-0.92	1.39
						110.8	0.06	-1.31	-1.88	-0.26	-1.15	1.23
						123.1	0.06	-1.34	-1.88	-0.26	-1.38	1.06
						135.4	0.06	-1.37	-1.88	-0.26	-1.61	0.90
						147.8	0.06	-1.40	-1.88	-0.26	-1.85	0.73
						160.1	0.06	-1.43	-1.88	-0.26	-2.08	0.55
						172.4	0.06	-1.46	-1.88	-0.26	-2.31	0.37
						184.7	0.06	-1.49	-1.88	-0.26	-2.54	0.19
						197.0	0.06	-1.52	-1.88	-0.26	-2.77	6.76e-03
7	14	2.53	2.78	7.85e-04	-0.48	0.0	-0.11	-1.04	1.89	-0.26	-0.95	2.53
		6.76e-03	-0.95	-8.44e-04	0.0	12.3	-0.11	-1.07	1.89	-0.26	-0.72	2.40
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						36.9	-0.11	-1.13	1.89	-0.26	-0.25	2.13
						49.3	-0.11	-1.16	1.89	-0.26	-0.02	1.99
						61.6	-0.11	-1.19	1.89	-0.26	0.22	1.84
						73.9	-0.11	-1.22	1.89	-0.26	0.45	1.69
						86.2	-0.11	-1.25	1.89	-0.26	0.68	1.54
						98.5	-0.11	-1.28	1.89	-0.26	0.92	1.39
						110.8	-0.11	-1.31	1.89	-0.26	1.15	1.23
						123.1	-0.11	-1.34	1.89	-0.26	1.38	1.06
						135.4	-0.11	-1.37	1.89	-0.26	1.62	0.90
						147.8	-0.11	-1.40	1.89	-0.26	1.85	0.73
						160.1	-0.11	-1.43	1.89	-0.26	2.08	0.55
						172.4	-0.11	-1.46	1.89	-0.26	2.32	0.37
						184.7	-0.11	-1.49	1.89	-0.26	2.55	0.19
						197.0	-0.11	-1.52	1.89	-0.26	2.78	6.76e-03
7	15	2.53	0.95	7.85e-04	-0.48	0.0	0.11	-1.04	-1.89	-0.26	0.95	2.53
		6.76e-03	-2.78	8.44e-04	0.0	12.3	0.11	-1.07	-1.89	-0.26	0.72	2.40
						24.6	0.11	-1.10	-1.89	-0.26	0.48	2.26
						36.9	0.11	-1.13	-1.89	-0.26	0.25	2.13
						49.3	0.11	-1.16	-1.89	-0.26	0.02	1.99
						61.6	0.11	-1.19	-1.89	-0.26	-0.22	1.84
						73.9	0.11	-1.22	-1.89	-0.26	-0.45	1.69
						86.2	0.11	-1.25	-1.89	-0.26	-0.68	1.54
						98.5	0.11	-1.28	-1.89	-0.26	-0.92	1.39
						110.8	0.11	-1.31	-1.89	-0.26	-1.15	1.23
						123.1	0.11	-1.34	-1.89	-0.26	-1.38	1.06
						135.4	0.11	-1.37	-1.89	-0.26	-1.62	0.90
						147.8	0.11	-1.40	-1.89	-0.26	-1.85	0.73
						160.1	0.11	-1.43	-1.89	-0.26	-2.08	0.55
						172.4	0.11	-1.46	-1.89	-0.26	-2.32	0.37
						184.7	0.11	-1.49	-1.89	-0.26	-2.55	0.19
						197.0	0.11	-1.52	-1.89	-0.26	-2.78	6.76e-03
7	41	2.53	1.58	7.85e-04	-0.48	0.0	-0.04	-1.04	1.07	-0.26	-0.53	2.53
		6.76e-03	-0.53	-4.81e-04	0.0	12.3	-0.04	-1.07	1.07	-0.26	-0.40	2.40
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						36.9	-0.04	-1.13	1.07	-0.26	-0.14	2.13
						49.3	-0.04	-1.16	1.07	-0.26	-3.55e-03	1.99
						61.6	-0.04	-1.19	1.07	-0.26	0.13	1.84
						73.9	-0.04	-1.22	1.07	-0.26	0.26	1.69
						86.2	-0.04	-1.25	1.07	-0.26	0.39	1.54
						98.5	-0.04	-1.28	1.07	-0.26	0.53	1.39
						110.8	-0.04	-1.31	1.07	-0.26	0.66	1.23
						123.1	-0.04	-1.34	1.07	-0.26	0.79	1.06
						135.4	-0.04	-1.37	1.07	-0.26	0.92	0.90

						147.8	-0.04	-1.40	1.07	-0.26	1.05	0.73
						160.1	-0.04	-1.43	1.07	-0.26	1.19	0.55
						172.4	-0.04	-1.46	1.07	-0.26	1.32	0.37
						184.7	-0.04	-1.49	1.07	-0.26	1.45	0.19
						197.0	-0.04	-1.52	1.07	-0.26	1.58	6.76e-03
7	43	2.53	0.54	7.85e-04	-0.48	0.0	0.06	-1.04	-1.08	-0.26	0.54	2.53
		6.76e-03	-1.59	4.82e-04	0.0	12.3	0.06	-1.07	-1.08	-0.26	0.41	2.40
						24.6	0.06	-1.10	-1.08	-0.26	0.27	2.26
						36.9	0.06	-1.13	-1.08	-0.26	0.14	2.13
						49.3	0.06	-1.16	-1.08	-0.26	8.36e-03	1.99
						61.6	0.06	-1.19	-1.08	-0.26	-0.12	1.84
						73.9	0.06	-1.22	-1.08	-0.26	-0.26	1.69
						86.2	0.06	-1.25	-1.08	-0.26	-0.39	1.54
						98.5	0.06	-1.28	-1.08	-0.26	-0.52	1.39
						110.8	0.06	-1.31	-1.08	-0.26	-0.66	1.23
						123.1	0.06	-1.34	-1.08	-0.26	-0.79	1.06
						135.4	0.06	-1.37	-1.08	-0.26	-0.92	0.90
						147.8	0.06	-1.40	-1.08	-0.26	-1.06	0.73
						160.1	0.06	-1.43	-1.08	-0.26	-1.19	0.55
						172.4	0.06	-1.46	-1.08	-0.26	-1.32	0.37
						184.7	0.06	-1.49	-1.08	-0.26	-1.46	0.19
						197.0	0.06	-1.52	-1.08	-0.26	-1.59	6.76e-03
7	44	2.53	0.53	7.85e-04	-0.48	0.0	0.04	-1.04	-1.07	-0.26	0.53	2.53
		6.76e-03	-1.58	4.81e-04	0.0	12.3	0.04	-1.07	-1.07	-0.26	0.40	2.40
						24.6	0.04	-1.10	-1.07	-0.26	0.27	2.26
						36.9	0.04	-1.13	-1.07	-0.26	0.14	2.13
						49.3	0.04	-1.16	-1.07	-0.26	3.55e-03	1.99
						61.6	0.04	-1.19	-1.07	-0.26	-0.13	1.84
						73.9	0.04	-1.22	-1.07	-0.26	-0.26	1.69
						86.2	0.04	-1.25	-1.07	-0.26	-0.39	1.54
						98.5	0.04	-1.28	-1.07	-0.26	-0.53	1.39
						110.8	0.04	-1.31	-1.07	-0.26	-0.66	1.23
						123.1	0.04	-1.34	-1.07	-0.26	-0.79	1.06
						135.4	0.04	-1.37	-1.07	-0.26	-0.92	0.90
						147.8	0.04	-1.40	-1.07	-0.26	-1.05	0.73
						160.1	0.04	-1.43	-1.07	-0.26	-1.19	0.55
						172.4	0.04	-1.46	-1.07	-0.26	-1.32	0.37
						184.7	0.04	-1.49	-1.07	-0.26	-1.45	0.19
						197.0	0.04	-1.52	-1.07	-0.26	-1.58	6.76e-03
7	46	2.53	1.59	7.85e-04	-0.48	0.0	-0.06	-1.04	1.08	-0.26	-0.54	2.53
		6.76e-03	-0.54	-4.82e-04	0.0	12.3	-0.06	-1.07	1.08	-0.26	-0.41	2.40
						24.6	-0.06	-1.10	1.08	-0.26	-0.28	2.26
						36.9	-0.06	-1.13	1.08	-0.26	-0.14	2.13
						49.3	-0.06	-1.16	1.08	-0.26	-8.57e-03	1.99
						61.6	-0.06	-1.19	1.08	-0.26	0.12	1.84
						73.9	-0.06	-1.22	1.08	-0.26	0.26	1.69
						86.2	-0.06	-1.25	1.08	-0.26	0.39	1.54
						98.5	-0.06	-1.28	1.08	-0.26	0.52	1.39
						110.8	-0.06	-1.31	1.08	-0.26	0.66	1.23
						123.1	-0.06	-1.34	1.08	-0.26	0.79	1.06
						135.4	-0.06	-1.37	1.08	-0.26	0.92	0.90
						147.8	-0.06	-1.40	1.08	-0.26	1.06	0.73
						160.1	-0.06	-1.43	1.08	-0.26	1.19	0.55
						172.4	-0.06	-1.46	1.08	-0.26	1.32	0.37
						184.7	-0.06	-1.49	1.08	-0.26	1.46	0.19
						197.0	-0.06	-1.52	1.08	-0.26	1.59	6.76e-03
7	47	2.53	0.54	7.85e-04	-0.48	0.0	0.06	-1.04	-1.08	-0.26	0.54	2.53
		6.76e-03	-1.59	4.82e-04	0.0	12.3	0.06	-1.07	-1.08	-0.26	0.41	2.40
						24.6	0.06	-1.10	-1.08	-0.26	0.28	2.26
						36.9	0.06	-1.13	-1.08	-0.26	0.14	2.13
						49.3	0.06	-1.16	-1.08	-0.26	8.57e-03	1.99
						61.6	0.06	-1.19	-1.08	-0.26	-0.12	1.84
						73.9	0.06	-1.22	-1.08	-0.26	-0.26	1.69
						86.2	0.06	-1.25	-1.08	-0.26	-0.39	1.54
						98.5	0.06	-1.28	-1.08	-0.26	-0.52	1.39
						110.8	0.06	-1.31	-1.08	-0.26	-0.66	1.23
						123.1	0.06	-1.34	-1.08	-0.26	-0.79	1.06
						135.4	0.06	-1.37	-1.08	-0.26	-0.92	0.90
						147.8	0.06	-1.40	-1.08	-0.26	-1.06	0.73
						160.1	0.06	-1.43	-1.08	-0.26	-1.19	0.55
						172.4	0.06	-1.46	-1.08	-0.26	-1.32	0.37
						184.7	0.06	-1.49	-1.08	-0.26	-1.46	0.19

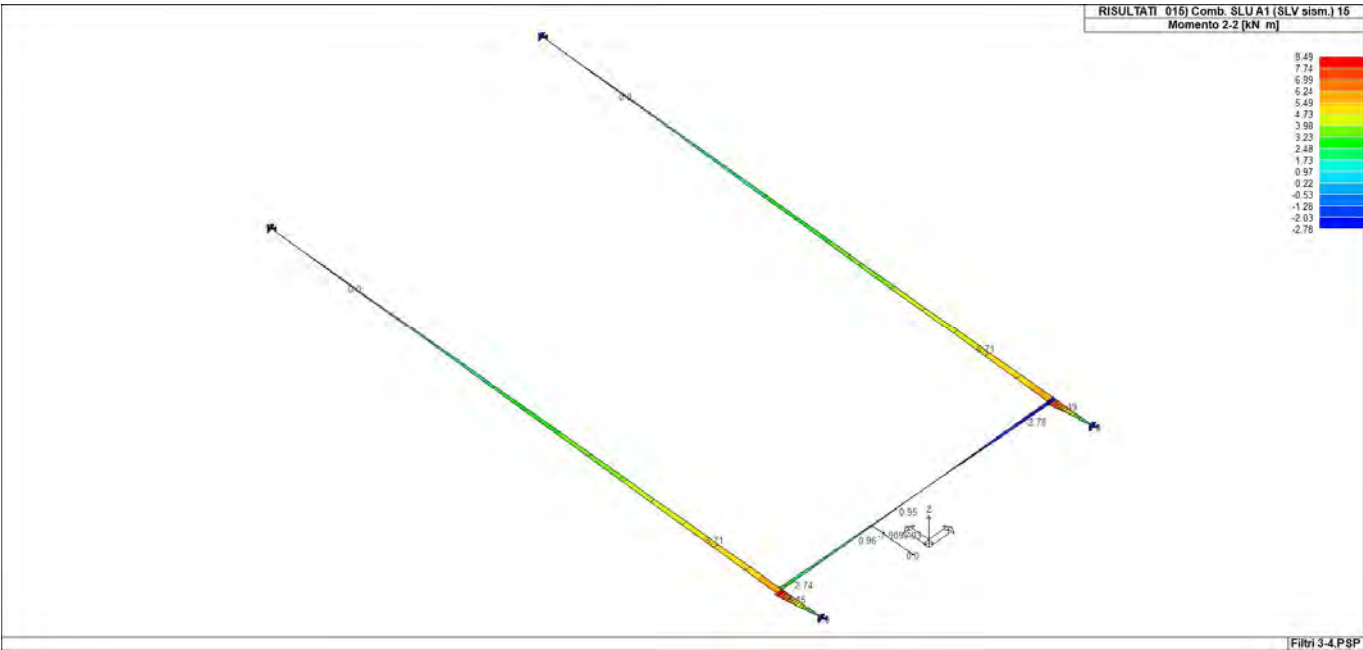
7	73	1.64 4.11e-03	0.0 0.0	5.20e-04 0.0	-0.48 0.0	197.0	0.06	-1.52	-1.08	-0.26	-1.59	6.76e-03
						0.0	0.0	-0.59	0.0	-0.16	0.0	1.64
						12.3	0.0	-0.62	0.0	-0.16	0.0	1.57
						24.6	0.0	-0.65	0.0	-0.16	0.0	1.49
						36.9	0.0	-0.68	0.0	-0.16	0.0	1.41
						49.3	0.0	-0.71	0.0	-0.16	0.0	1.32
						61.6	0.0	-0.74	0.0	-0.16	0.0	1.23
						73.9	0.0	-0.77	0.0	-0.16	0.0	1.14
						86.2	0.0	-0.80	0.0	-0.16	0.0	1.04
						98.5	0.0	-0.83	0.0	-0.16	0.0	0.94
						110.8	0.0	-0.86	0.0	-0.16	0.0	0.84
						123.1	0.0	-0.89	0.0	-0.16	0.0	0.73
						135.4	0.0	-0.92	0.0	-0.16	0.0	0.62
						147.8	0.0	-0.95	0.0	-0.16	0.0	0.50
7	74	2.53 4.13e-03	0.0 0.0	7.85e-04 0.0	-0.48 0.0	160.1	0.0	-0.98	0.0	-0.16	0.0	0.38
						172.4	0.0	-1.01	0.0	-0.16	0.0	0.26
						184.7	0.0	-1.04	0.0	-0.16	0.0	0.13
						197.0	0.0	-1.07	0.0	-0.16	0.0	4.11e-03
						0.0	0.0	-1.04	0.0	-0.26	0.0	2.53
						12.3	0.0	-1.07	0.0	-0.26	0.0	2.40
						24.6	0.0	-1.10	0.0	-0.26	0.0	2.26
						36.9	0.0	-1.13	0.0	-0.26	0.0	2.13
						49.3	0.0	-1.16	0.0	-0.26	0.0	1.99
						61.6	0.0	-1.19	0.0	-0.26	0.0	1.84
						73.9	0.0	-1.22	0.0	-0.26	0.0	1.69
						86.2	0.0	-1.25	0.0	-0.26	0.0	1.54
						98.5	0.0	-1.28	0.0	-0.26	0.0	1.38
						110.8	0.0	-1.31	0.0	-0.26	0.0	1.23
						123.1	0.0	-1.34	0.0	-0.26	0.0	1.06
Trave	M3 mx/mn M2 mx/mn D 2 / D 3 Q 2 / Q 3 N V 2 V 3 T	-1.18 182.01	-8.49 8.49	-0.03 0.05	-227.00 0.0	-9.38 9.38	-122.08 109.30	-19.11 19.11	-0.39 0.79			123



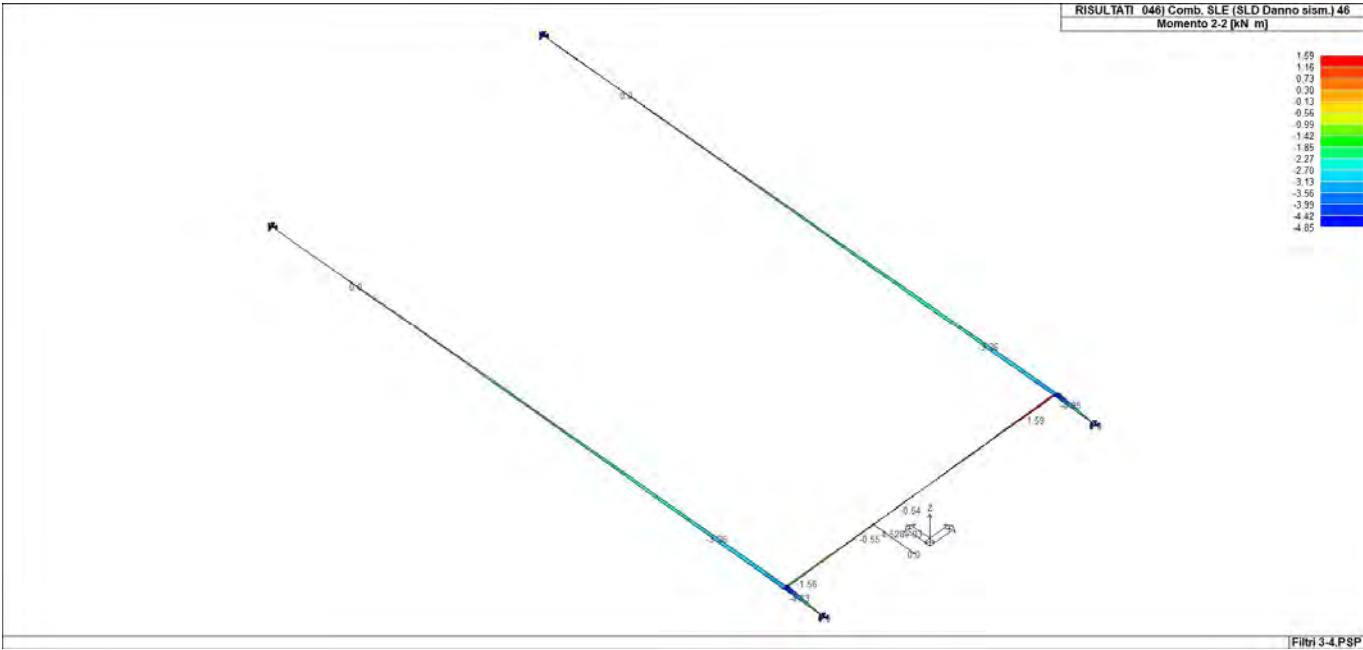
43_RIS_M2_001_Comb. SLU A1 1



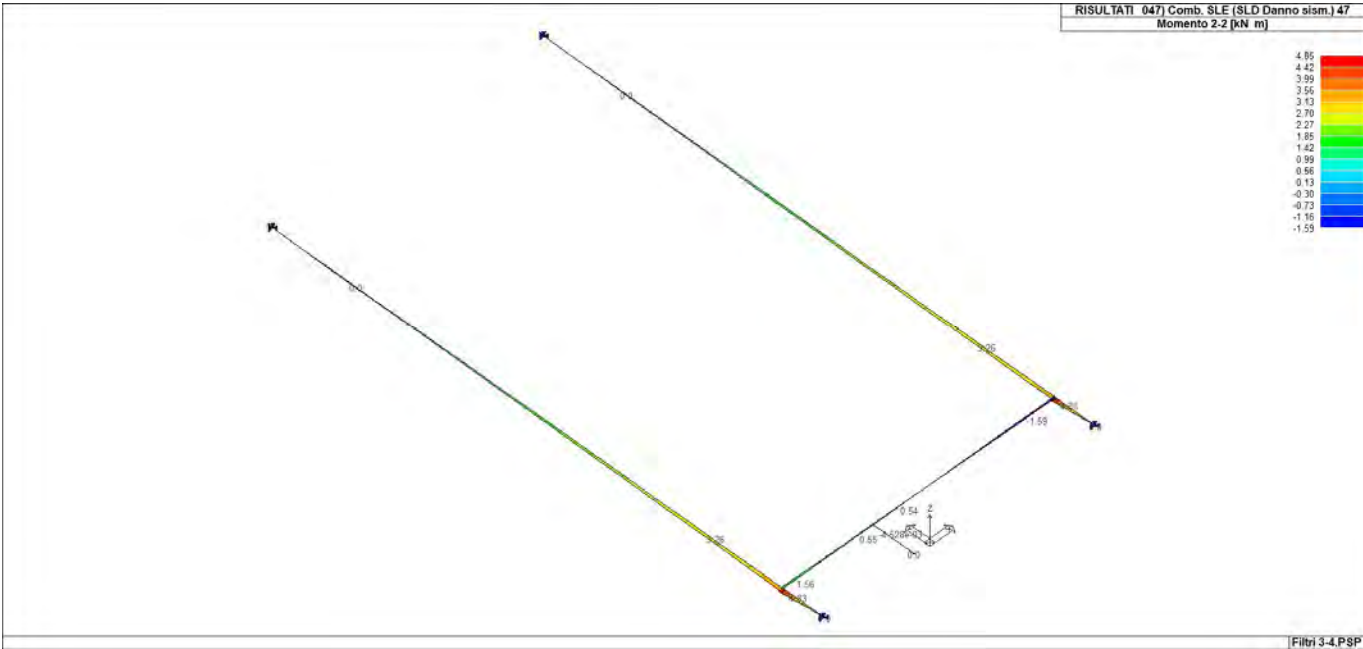
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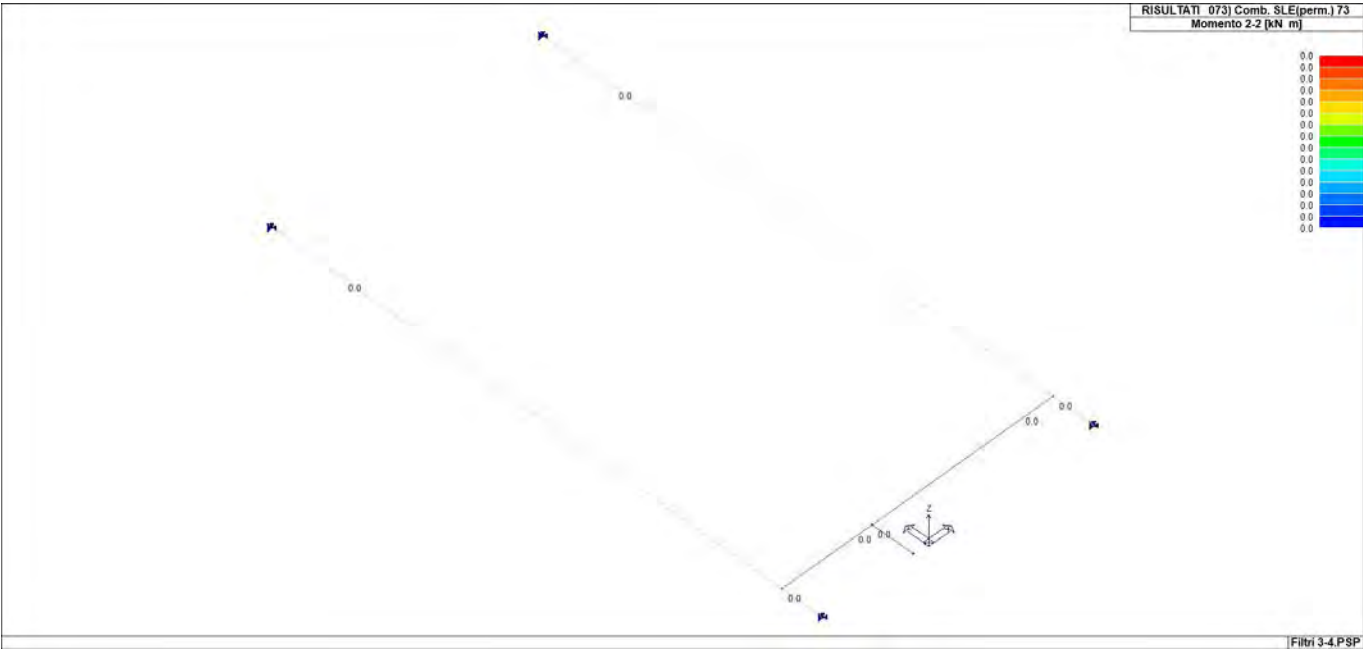
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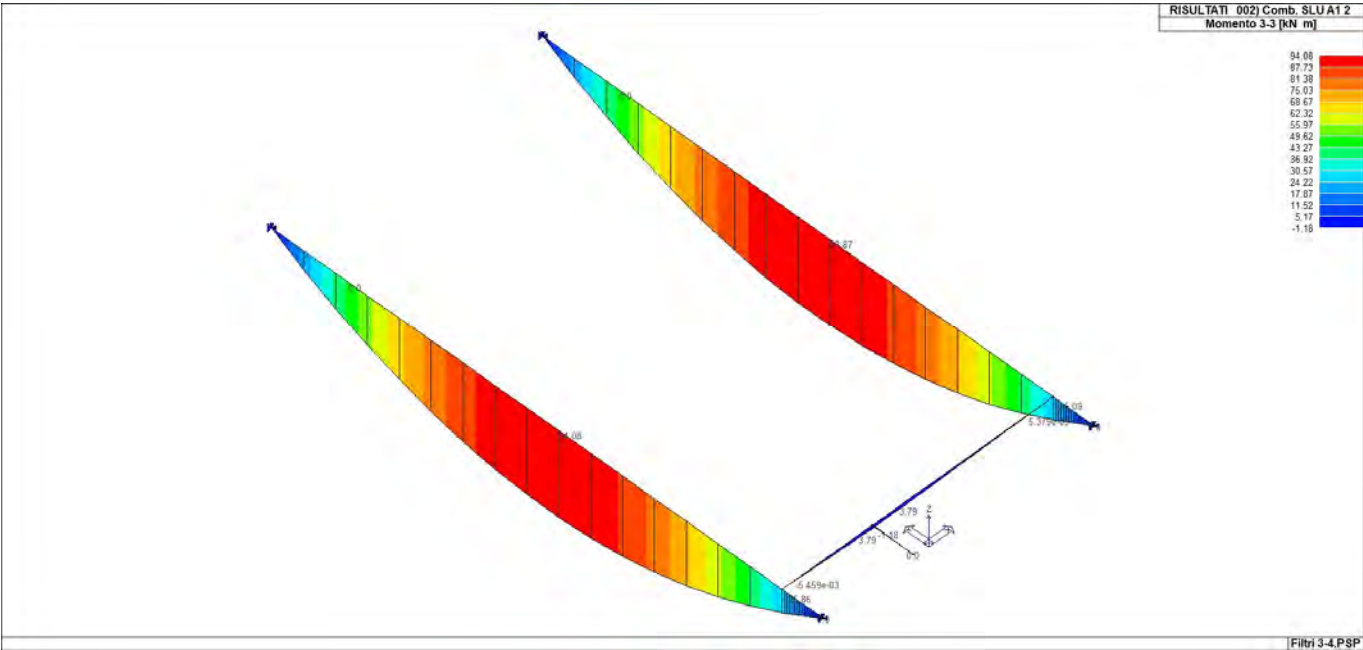
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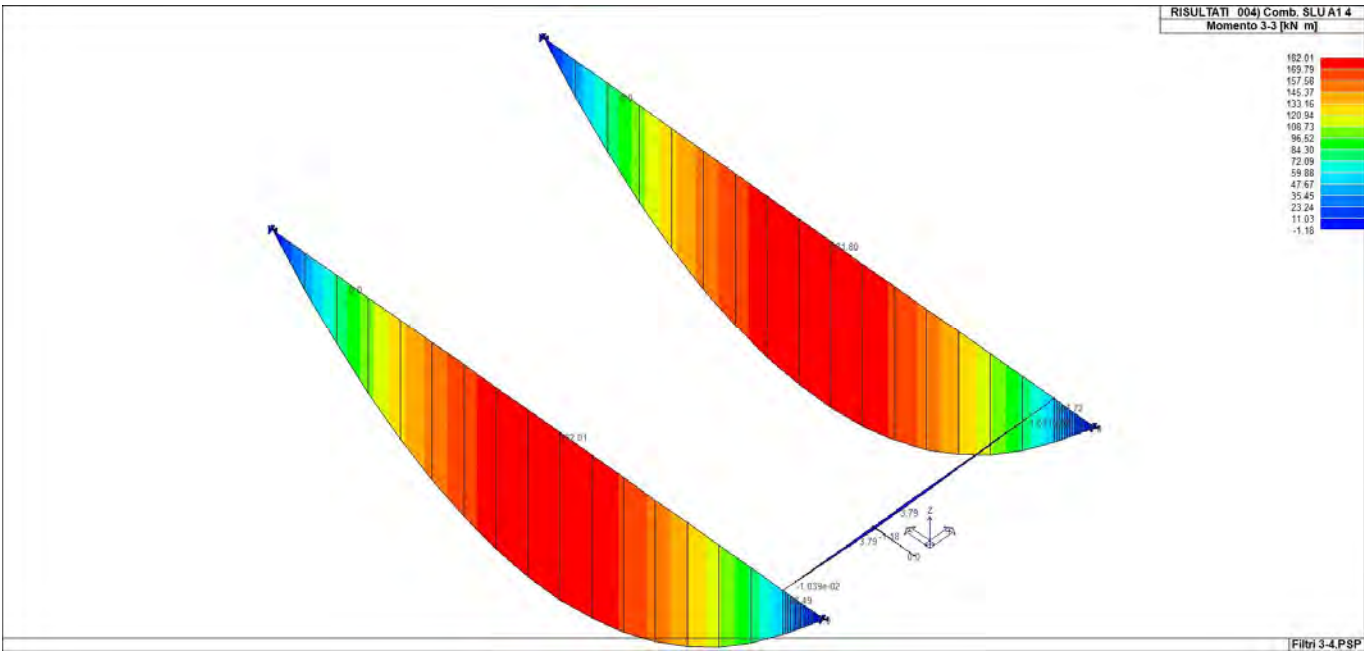
43_RIS_M2_047_Comb. SLE (SLD Danno sism.) 47



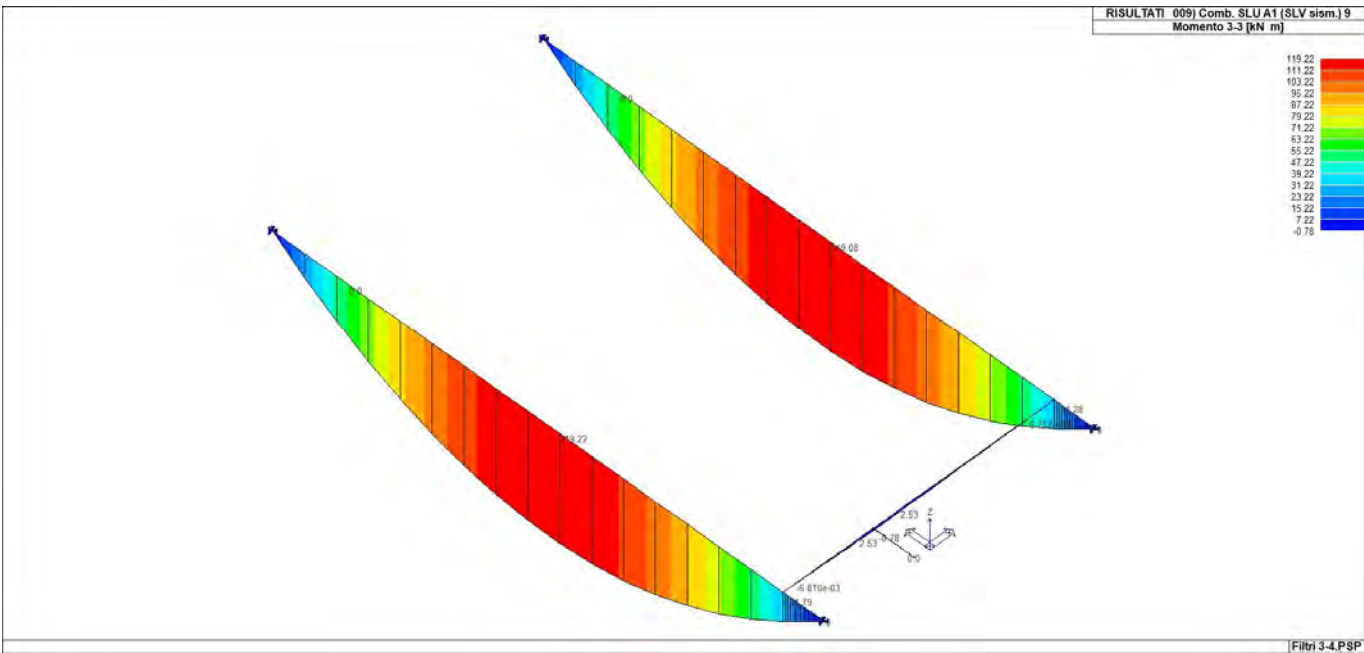
43_RIS_M2_073_Comb. SLE(per.) 73



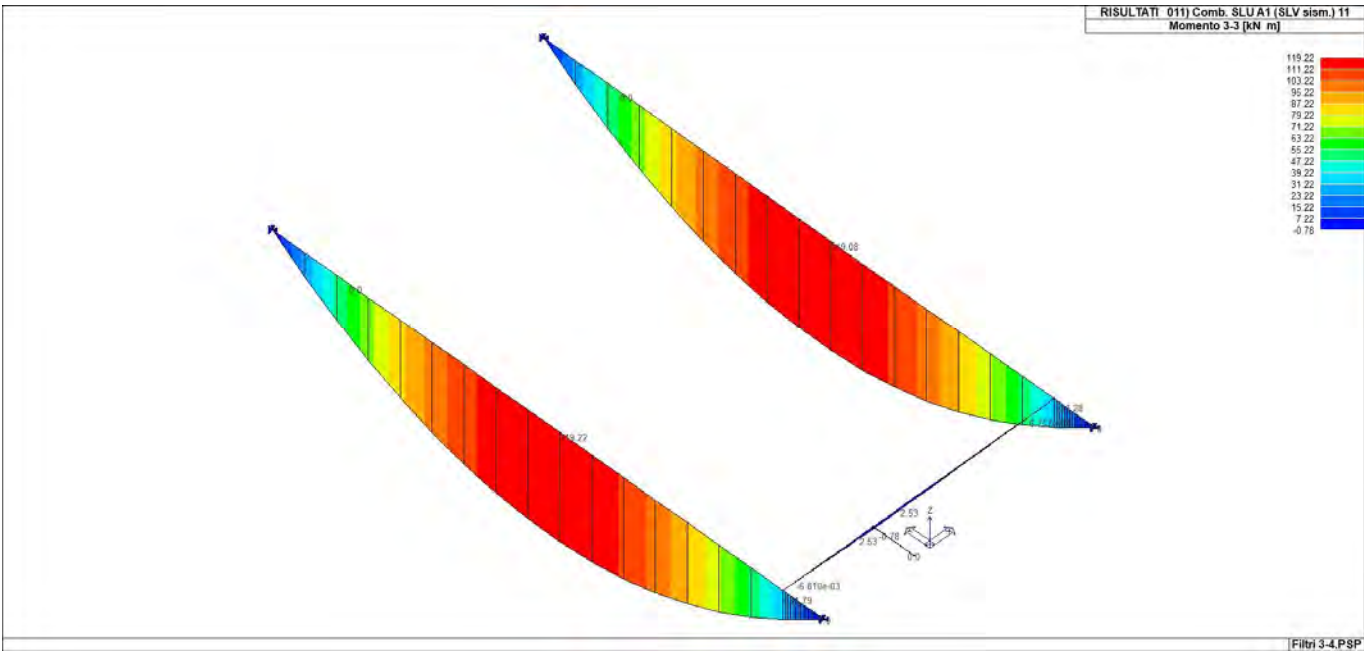
43_RIS_M3_002_Comb. SLU A1 2



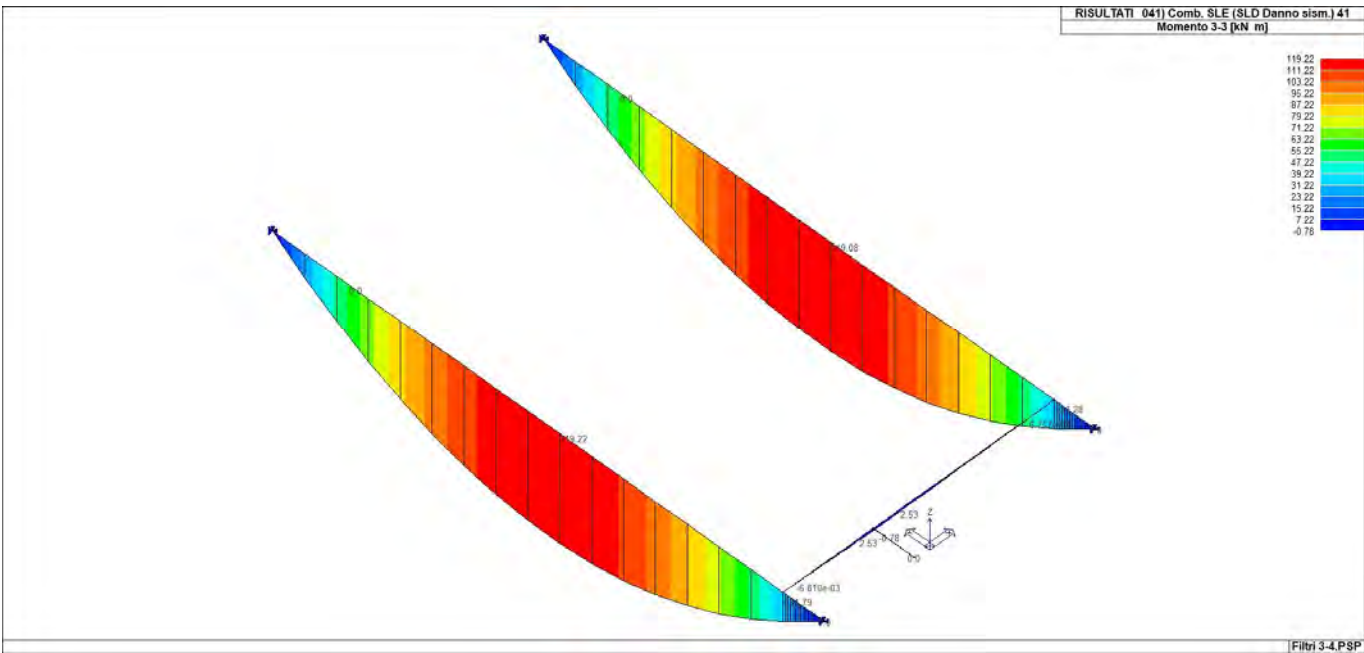
43_RIS_M3_004_Comb. SLU A1 4



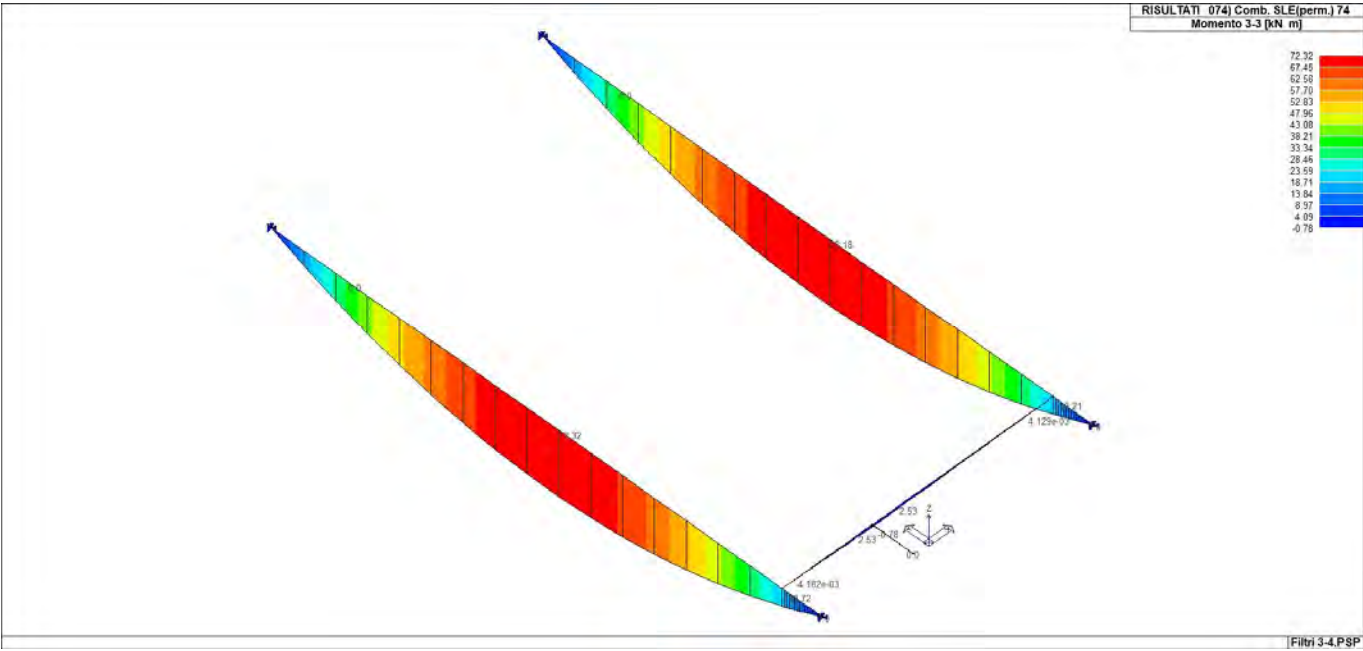
43_RIS_M3_009_Comb. SLU A1 (SLV sism.) 9



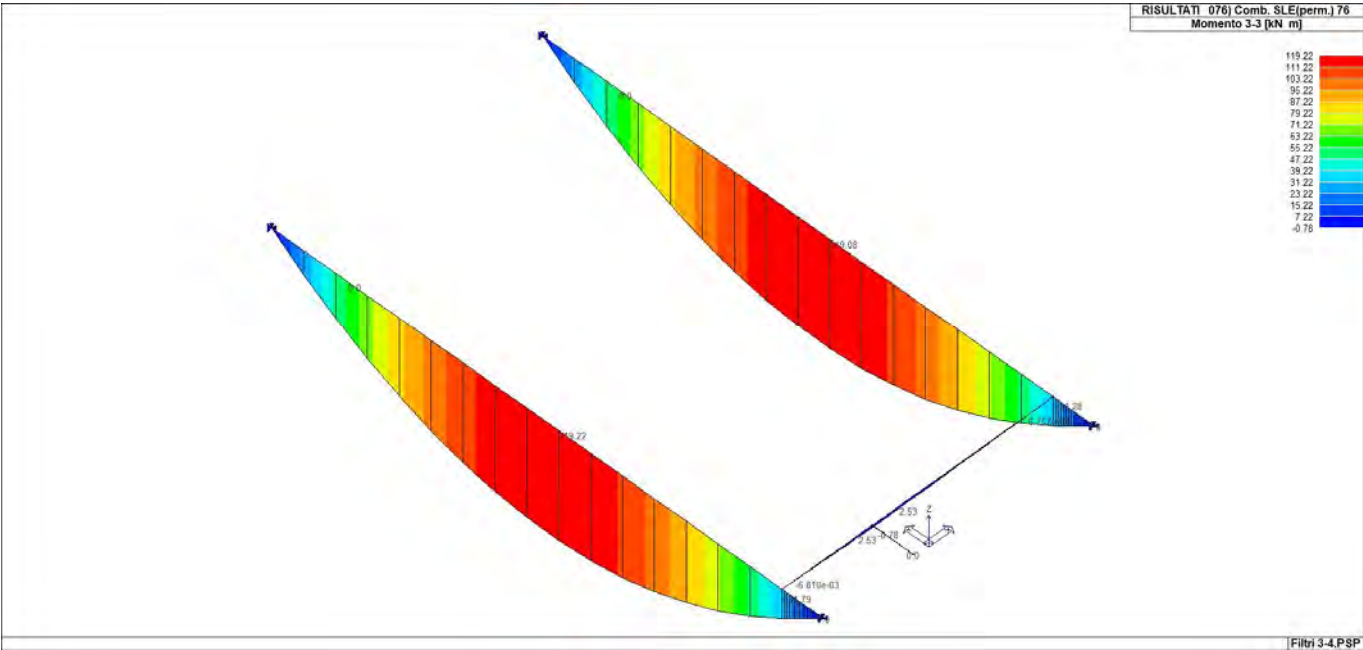
43_RIS_M3_011_Comb. SLU A1 (SLV sism.) 11



43_RIS_M3_041_Comb. SLE (SLD Danno sism.) 41

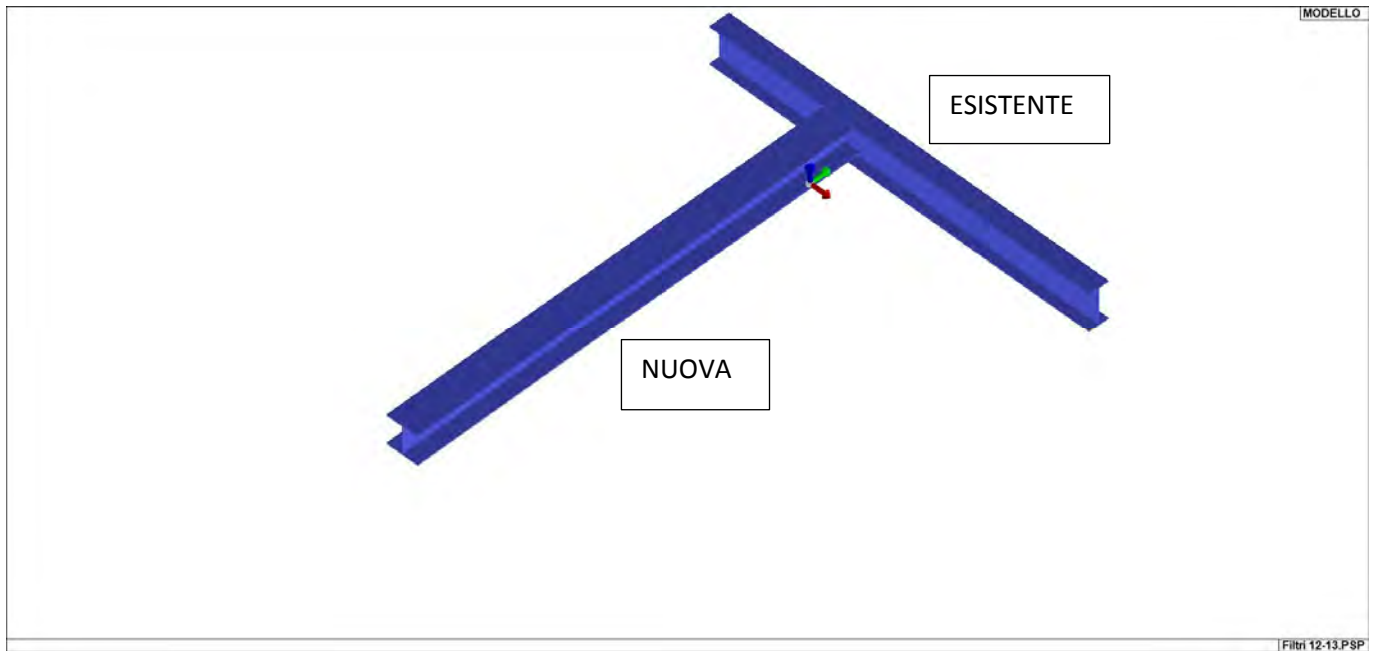


43_RIS_M3_074_Comb. SLE(per.) 74



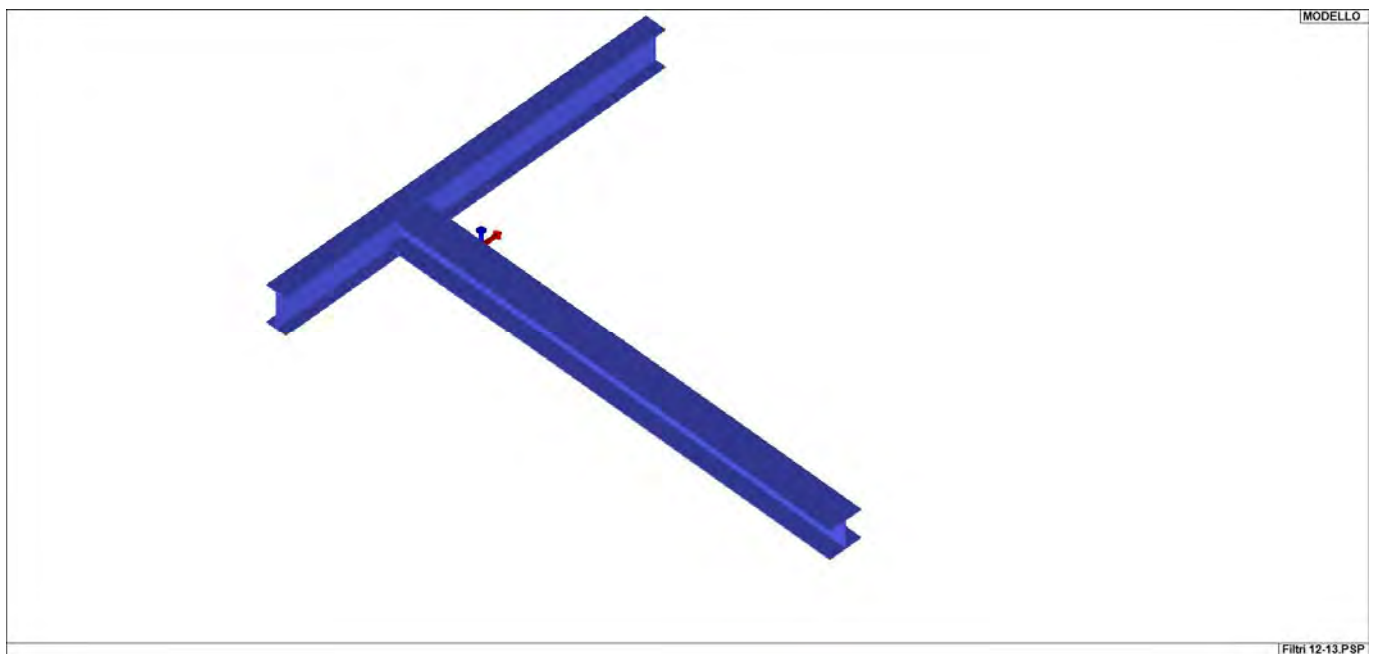
43_RIS_M3_076_Comb. SLE(per.) 76

STRUTTURE ZONA FILTRO 12-13 (piano 7° e 8°)

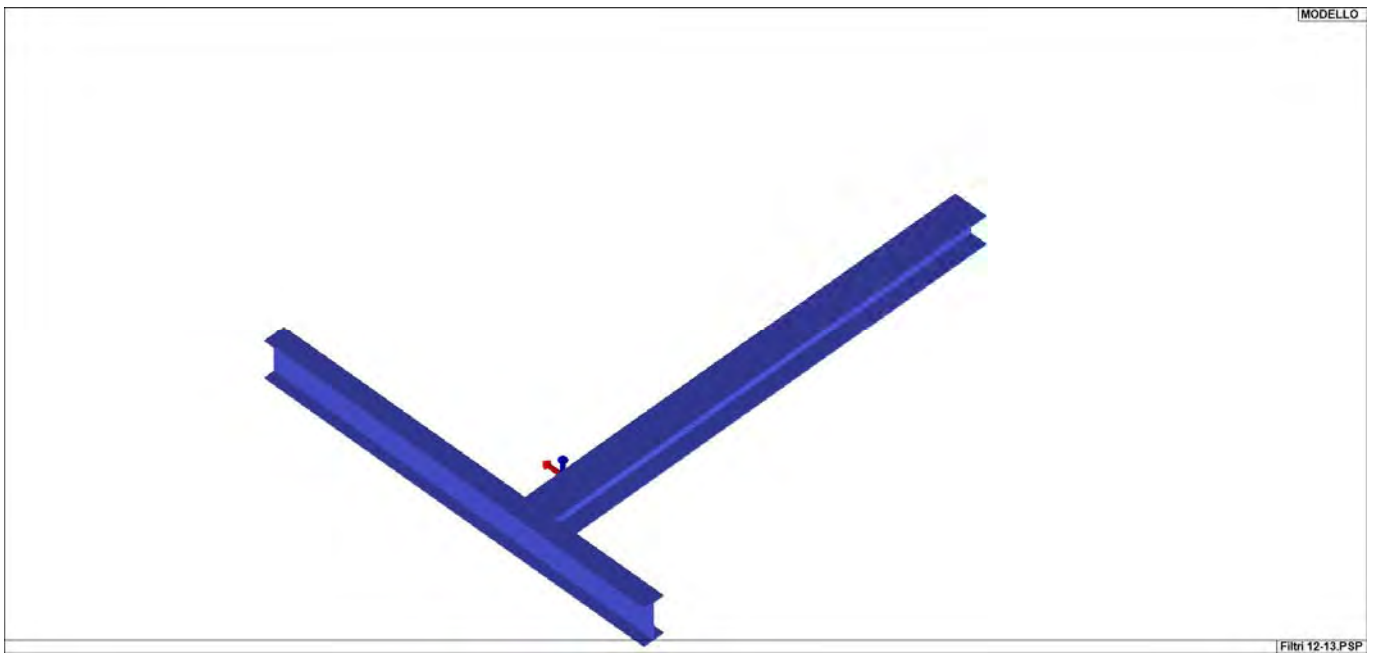


01_INT_VISTA_SOLIDA_001

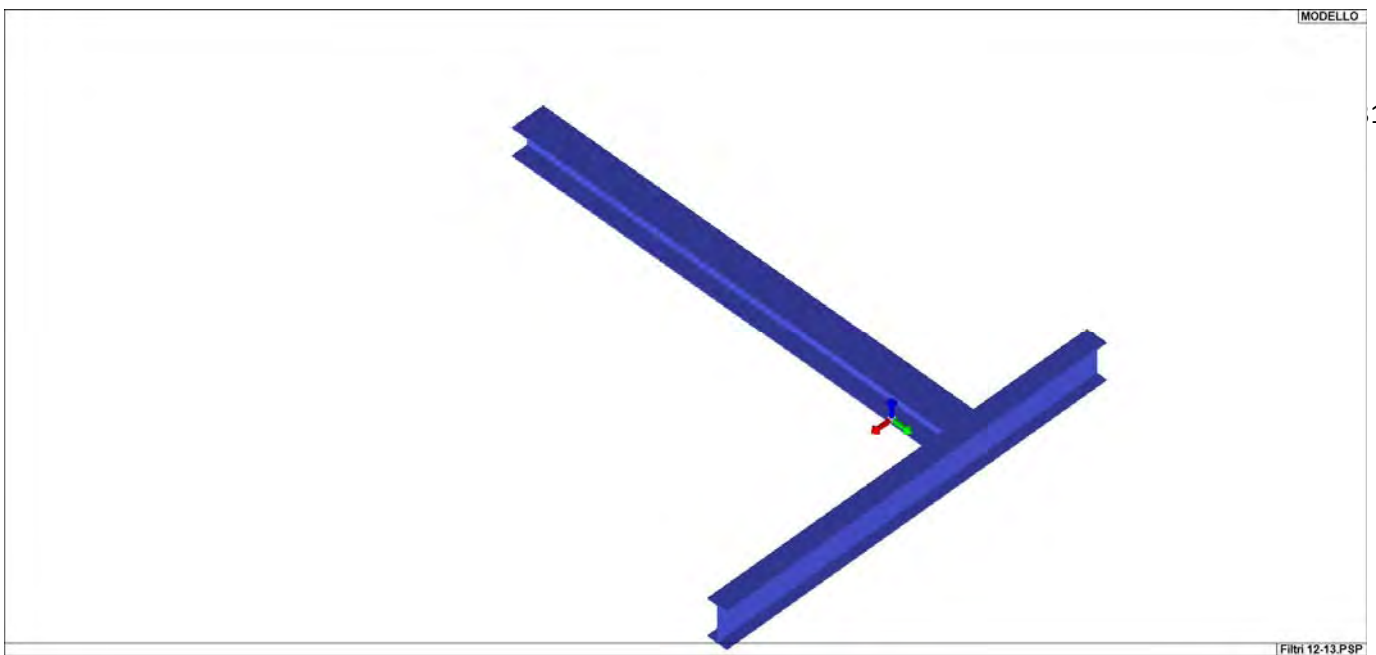
130



01_INT_VISTA_SOLIDA_002



01_INT_VISTA_SOLIDA_003



01_INT_VISTA_SOLIDA_004

1

Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
		cm2	cm2	cm2	cm4	cm4	cm4	cm3	cm3	cm3	cm3
8	HEA 240	76.80	0.0	0.0	41.60	2769.00	7763.00	230.70	675.10	351.70	744.60
9	IPE 300	53.80	0.0	0.0	20.10	604.00	8356.00	80.50	557.10	125.20	628.40

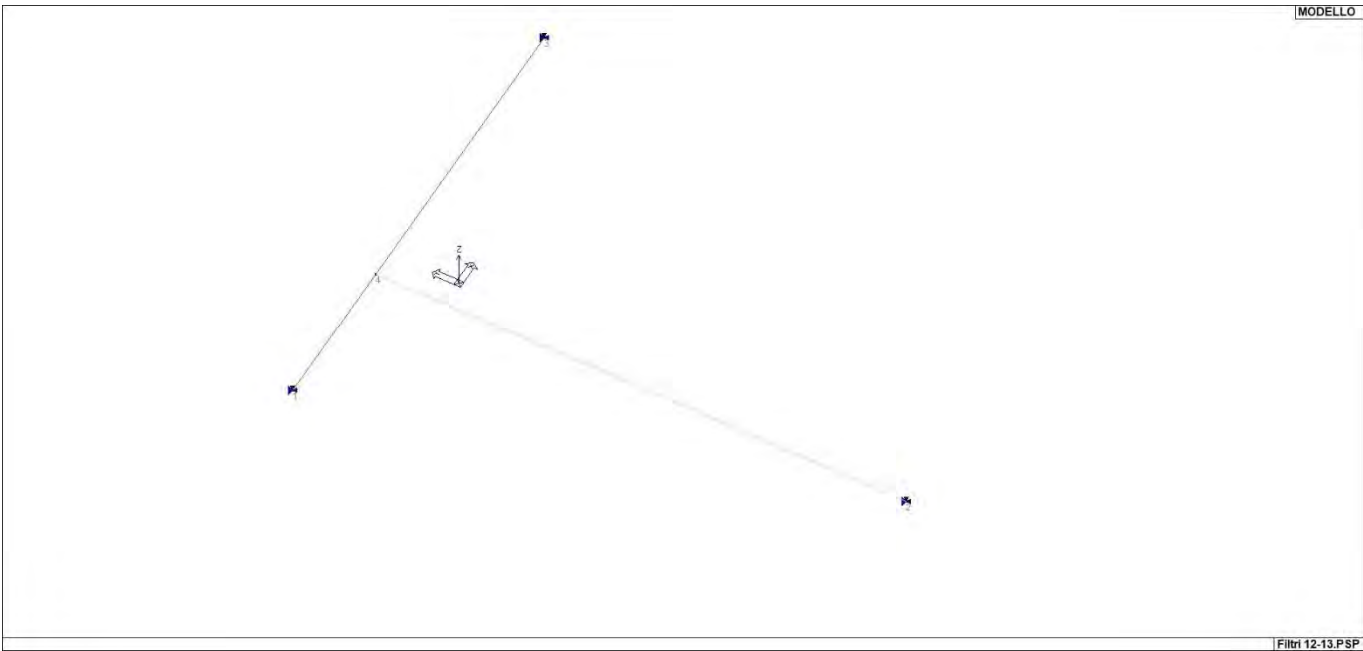


13_MOD_SEZIONI

MODELLAZIONE STRUTTURA: NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
4	-17.0	44.4	0.0								

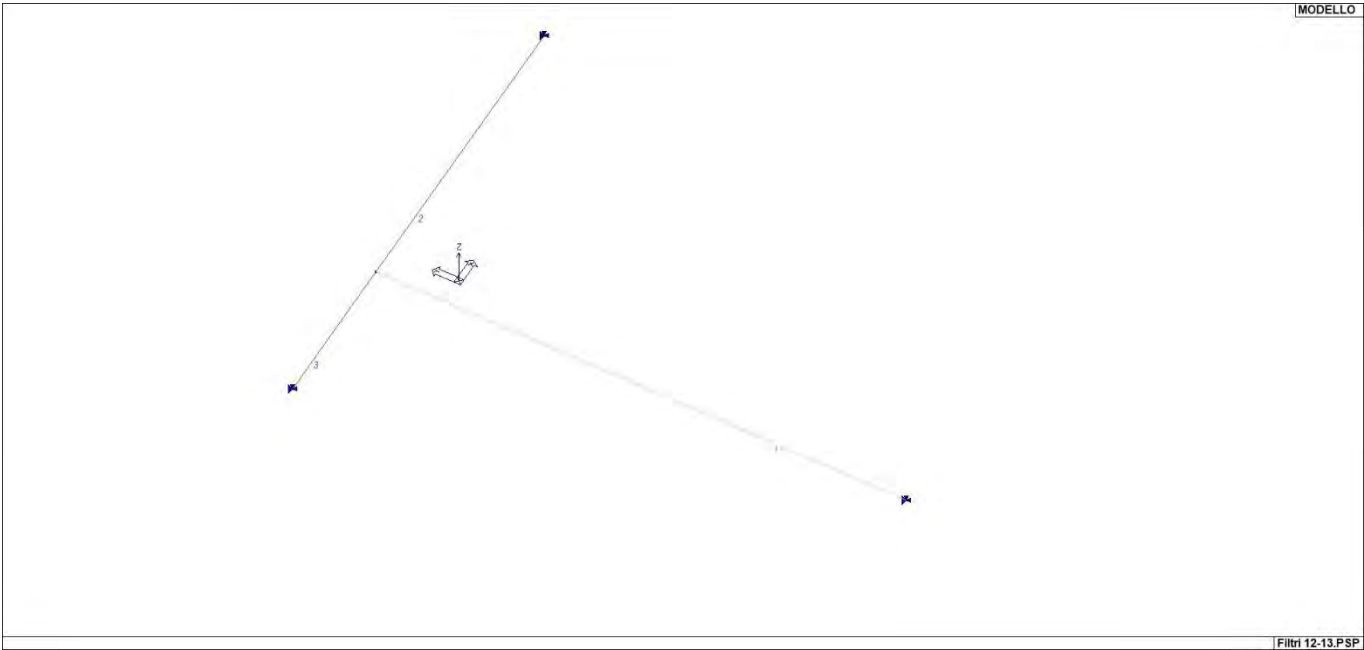
Nodo	X	Y	Z	Note	Rig. TX	Rig. TY	Rig. TZ	Rig. RX	Rig. RY	Rig. RZ
	cm	cm	cm		daN/cm	daN/cm	daN/cm	daN cm/rad	daN cm/rad	daN cm/rad
1	-115.0	44.4	0.0	v=111000						
2	-17.0	-300.0	0.0	v=111000						
3	180.0	44.4	0.0	v=111000						



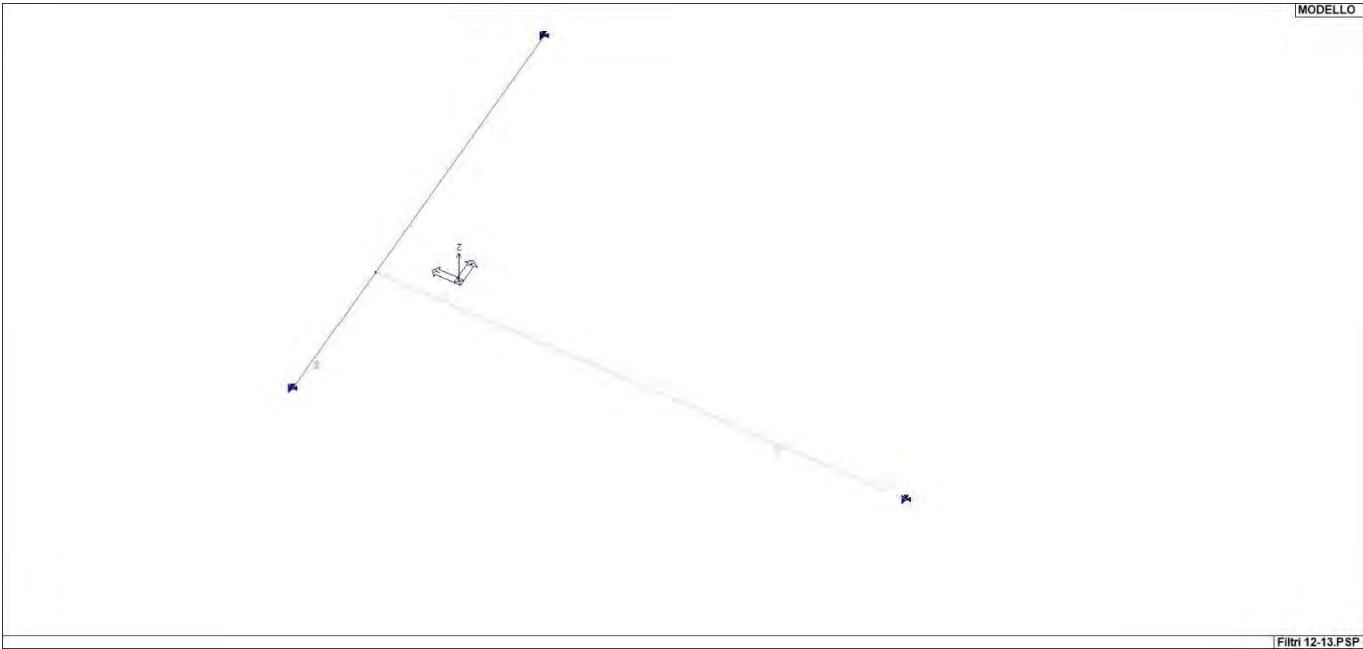
14_MOD_NUMERAZIONE_NODI

MODELLAZIONE STRUTTURA: ELEMENTI TRAVE

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
1	Trave	2	4	12	8					
2	Trave	4	3	12	9					
3	Trave	1	4	12	9					



15_MOD_NUMERAZIONE_D2



15_MOD_NUMERAZIONE_D2_TRAVATE

MODELLAZIONE DELLE AZIONI

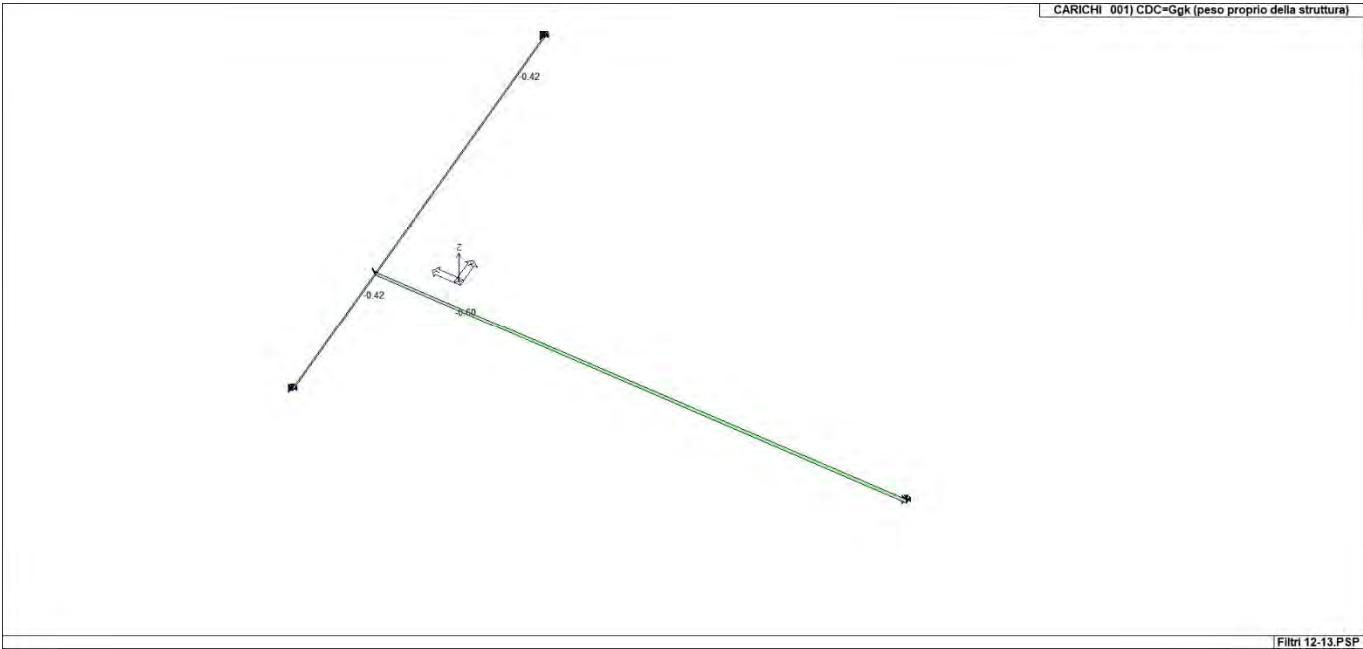
Tipo carico distribuito globale su trave

Id	Tipo	Pos.	fx	fy	fz	mx	my	mz
		m	kN/ m	kN/ m	kN/ m	kN	kN	kN
1	DG:Fzi=-3.60 Fzf=-3.60	0.0	0.0	0.0	-3.60	0.0	0.0	0.0
		0.0	0.0	0.0	-3.60	0.0	0.0	0.0
2	DG:Fzi=-3.60 Fzf=-3.60	0.0	0.0	0.0	-3.60	0.0	0.0	0.0
		0.0	0.0	0.0	-3.60	0.0	0.0	0.0
3	DG:Fzi=-6.00 Fzf=-6.00	0.0	0.0	0.0	-6.00	0.0	0.0	0.0
		0.0	0.0	0.0	-6.00	0.0	0.0	0.0

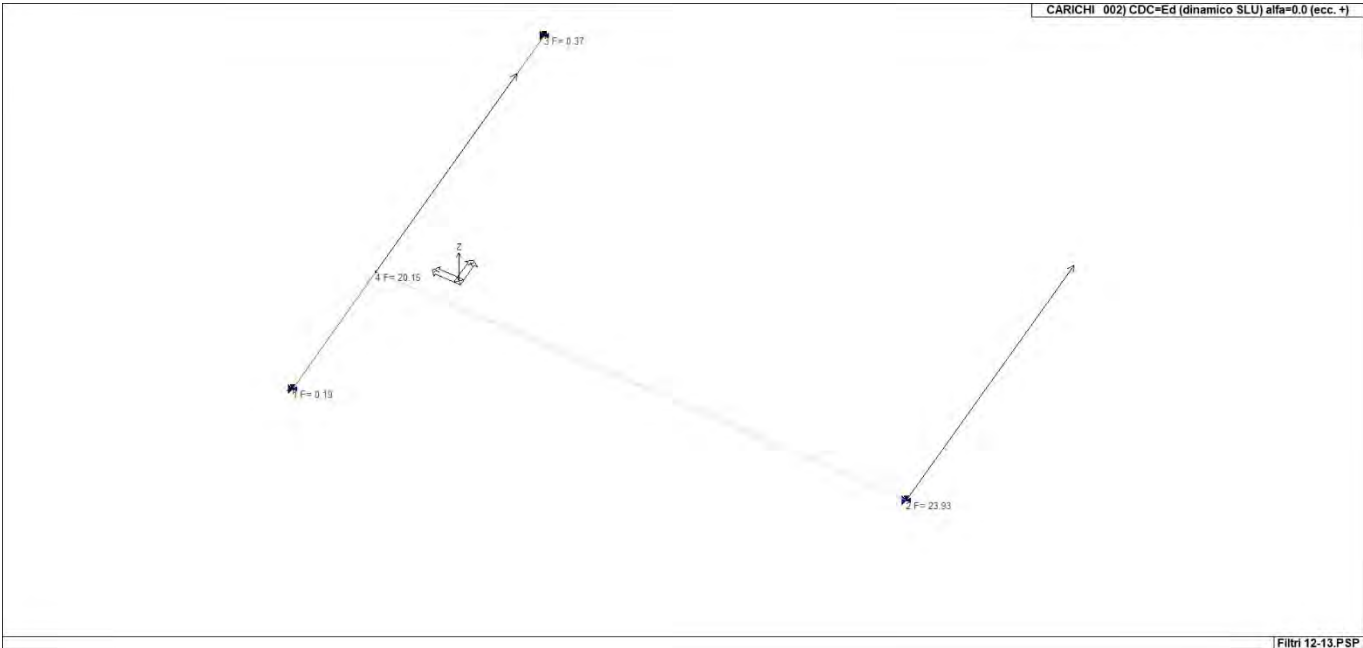
SCHEMATIZZAZIONE DEI CASI DI CARICO

CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 10 CDC=G1k (permanente generico) dead solaio
			partecipazione:0.80 per 11 CDC=Qk (variabile generico) acc solaio
			partecipazione:1.00 per 12 CDC=G1k (permanente generico) pns solaio
3	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
4	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
5	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico
6	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
7	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico
8	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
9	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico
10	Gk	CDC=G1k (permanente generico) dead solaio	Azioni applicate:
			D2 : 1 Azione : DG:Fzi=-3.60 Fzf=-3.60
11	Qk	CDC=Qk (variabile generico) acc solaio	Azioni applicate:
			D2 : 1 Azione : DG:Fzi=-6.00 Fzf=-6.00
12	Gk	CDC=G1k (permanente generico) pns solaio	Azioni applicate:
			D2 : 1 Azione : DG:Fzi=-3.60 Fzf=-3.60

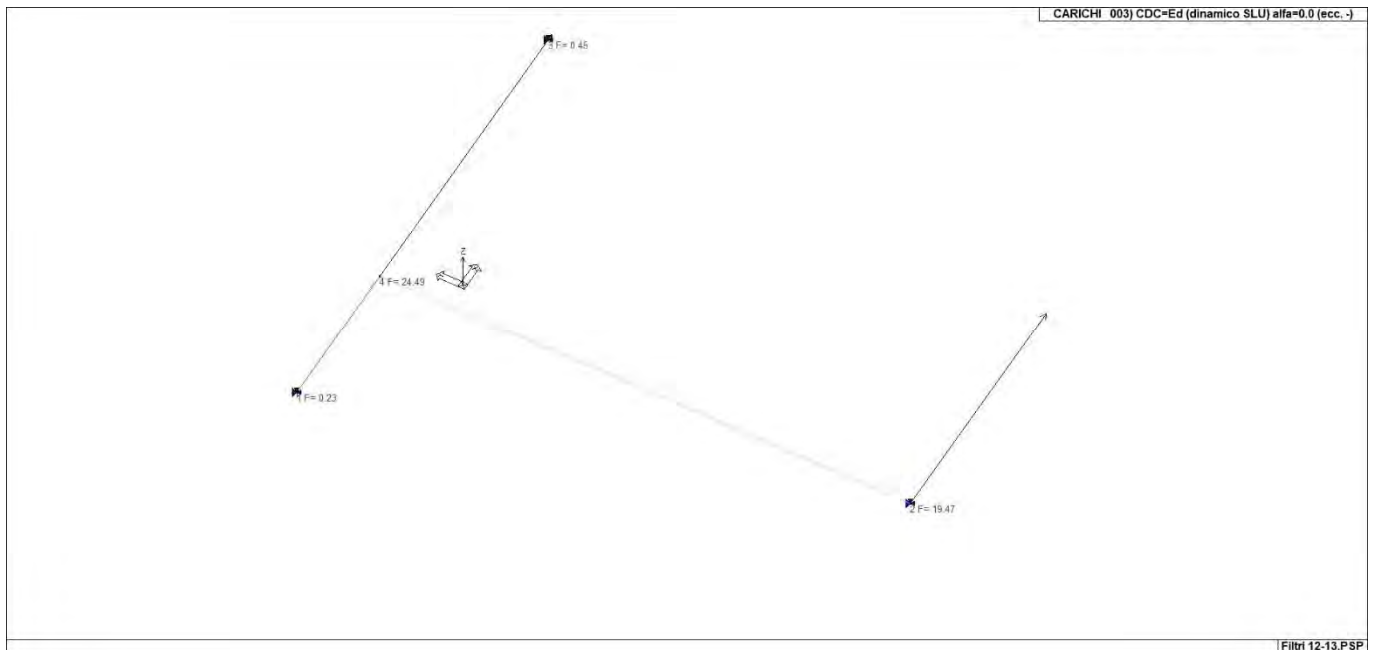
136



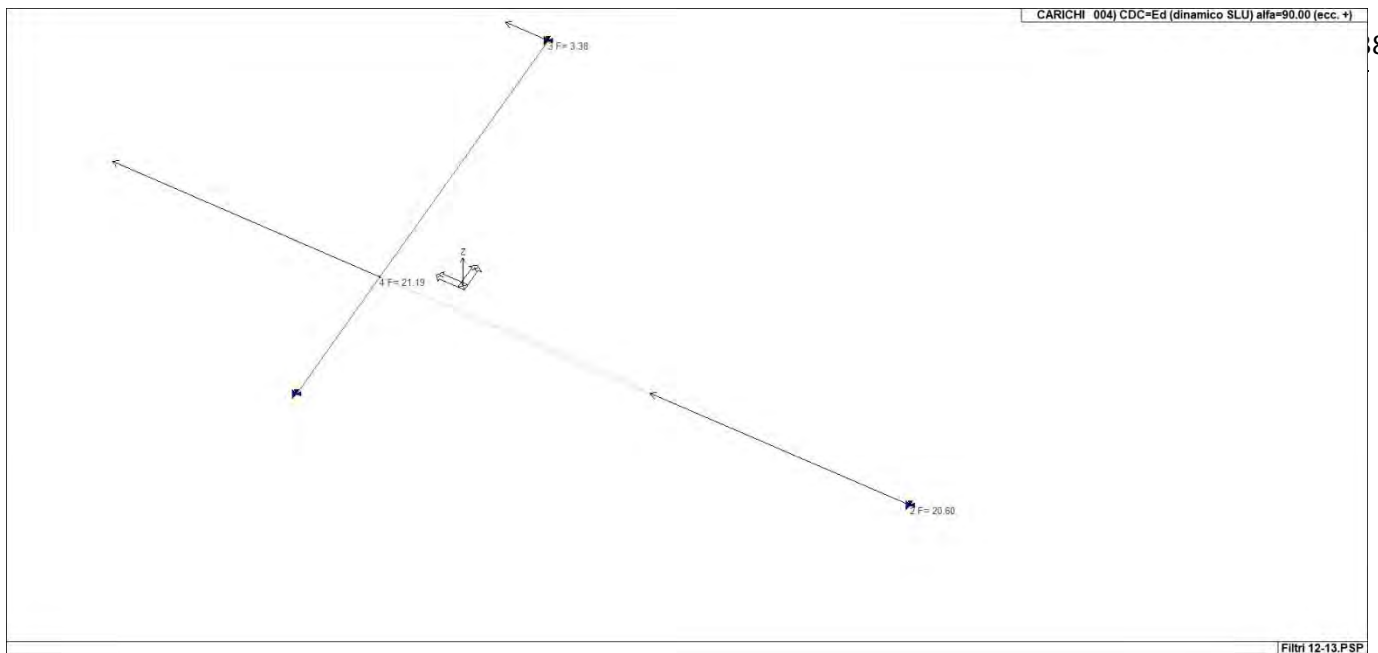
22_CDC_001_CDC=Ggk (peso proprio della struttura)



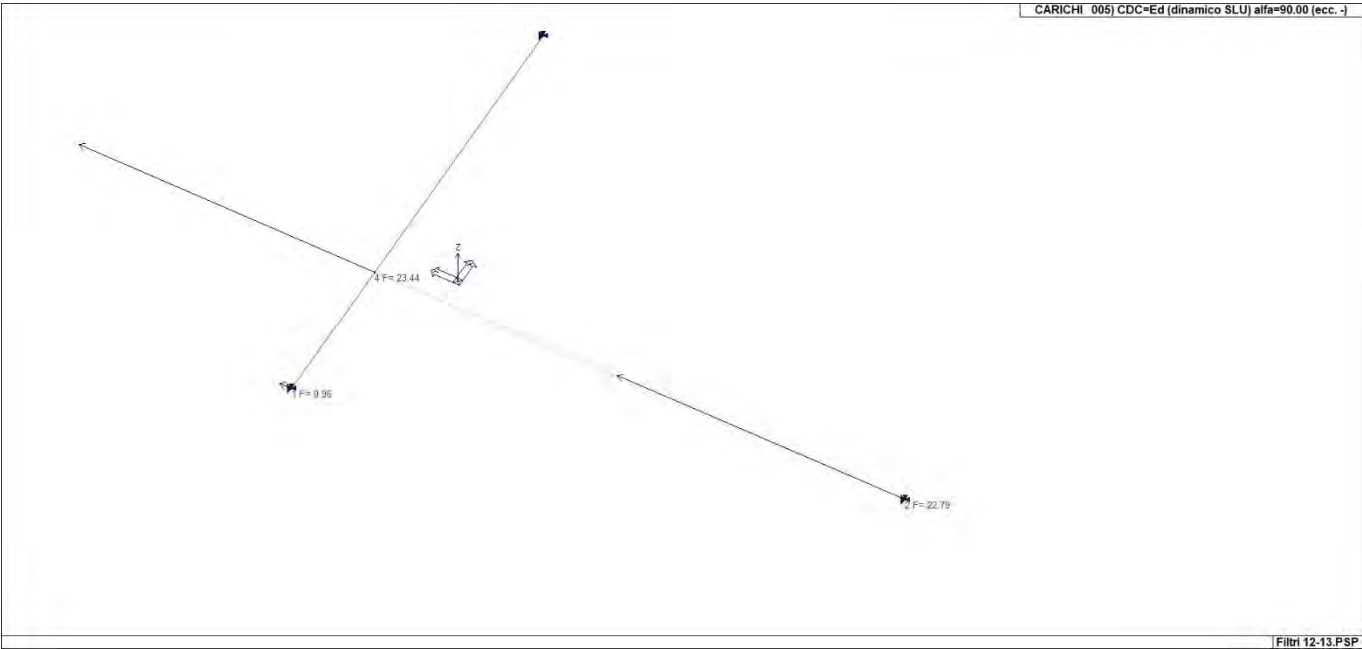
22_CDC_002_CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)



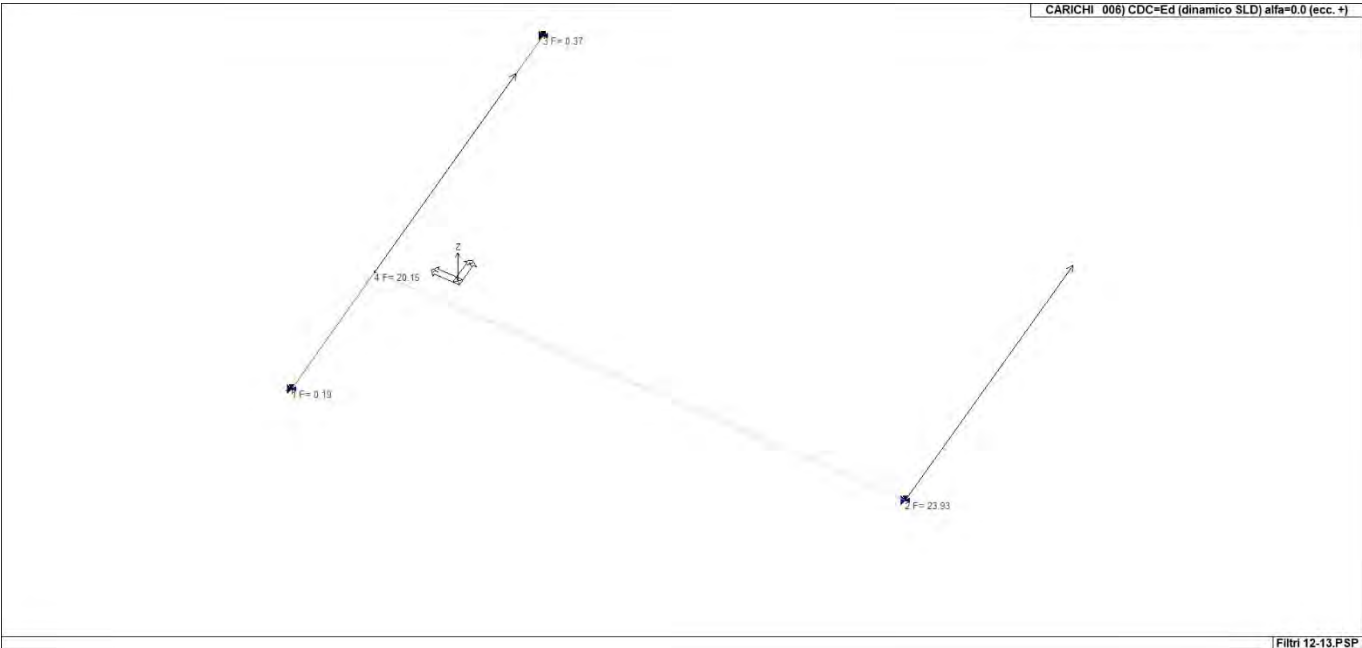
22_CDC_003_CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)



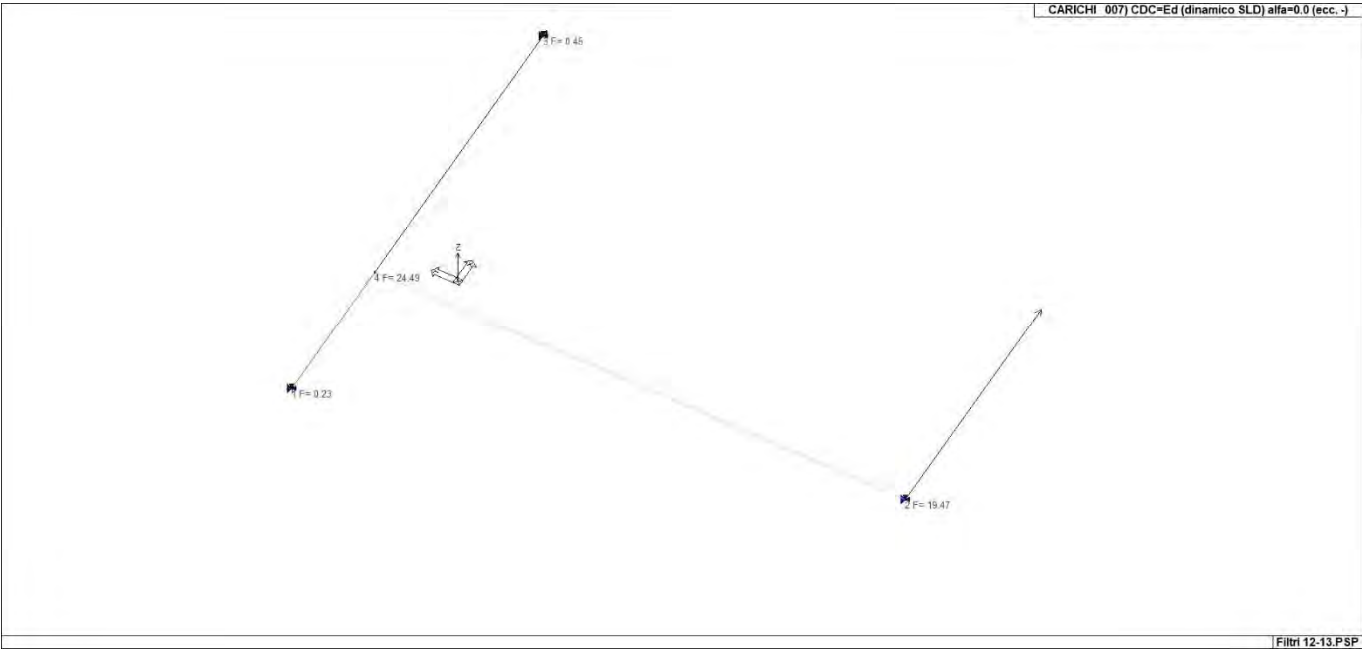
22_CDC_004_CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)



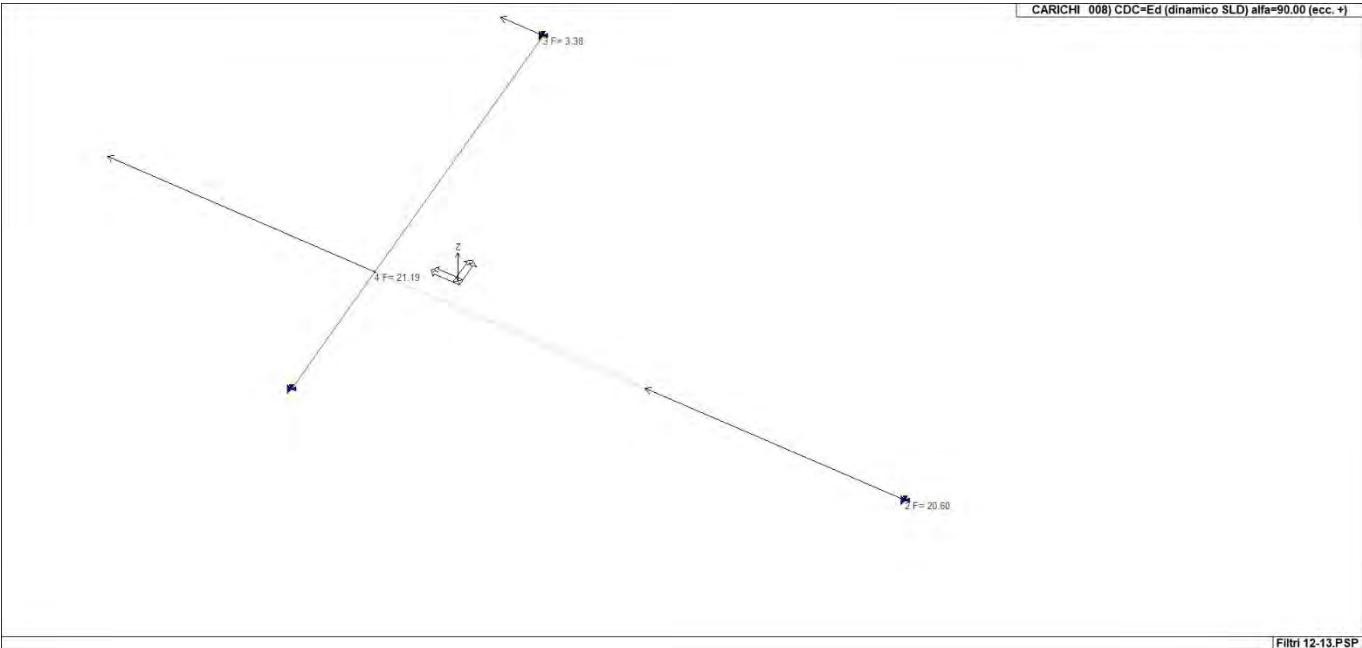
22_CDC_005_CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)



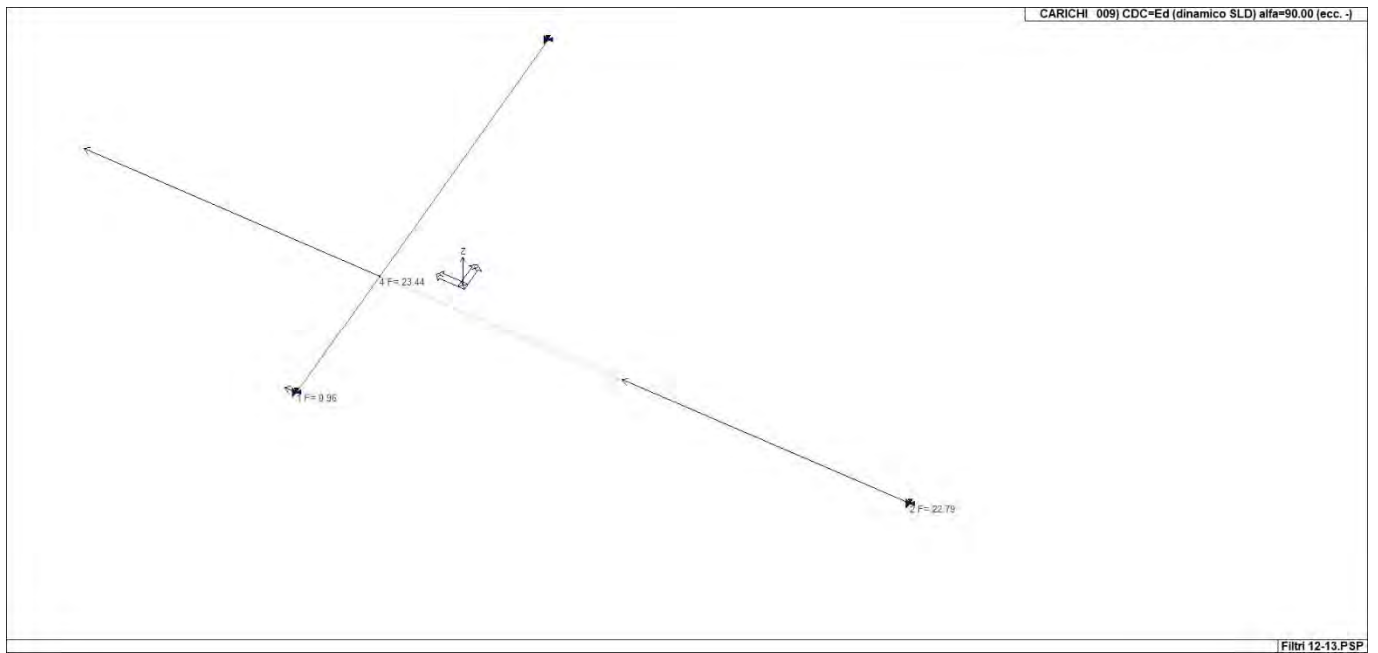
22_CDC_006_CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)



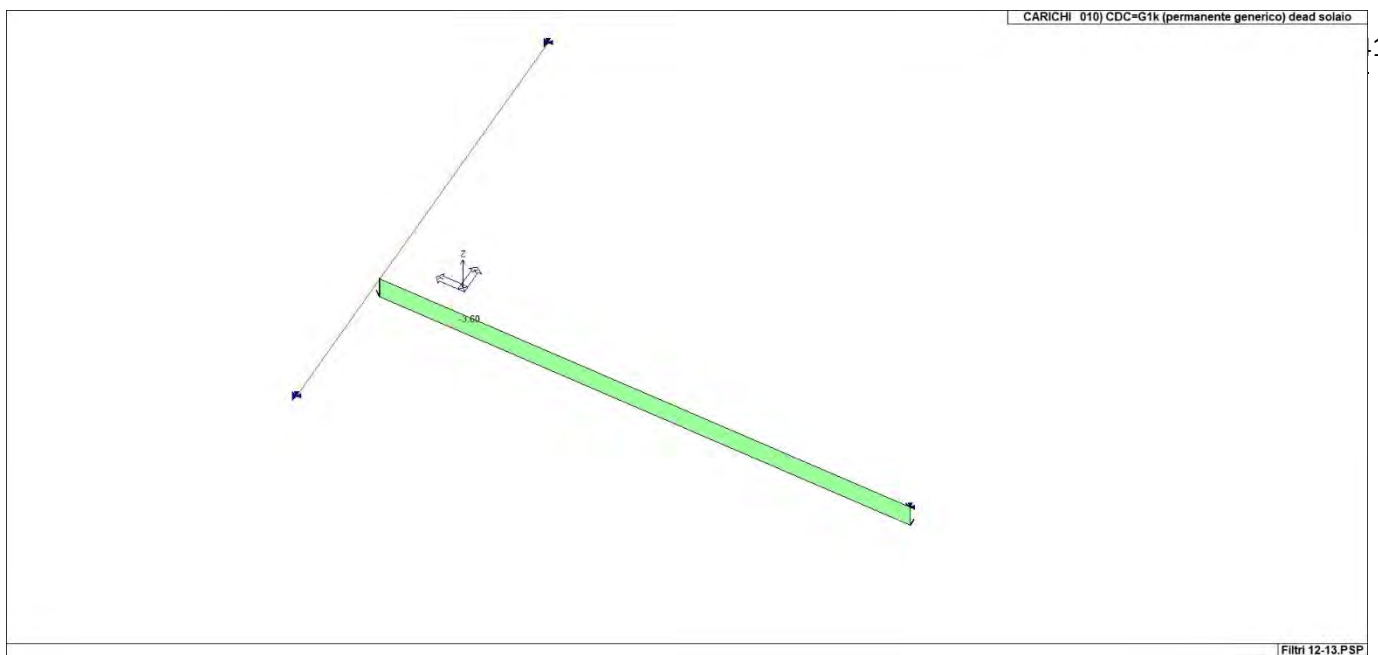
22_CDC_007_CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)



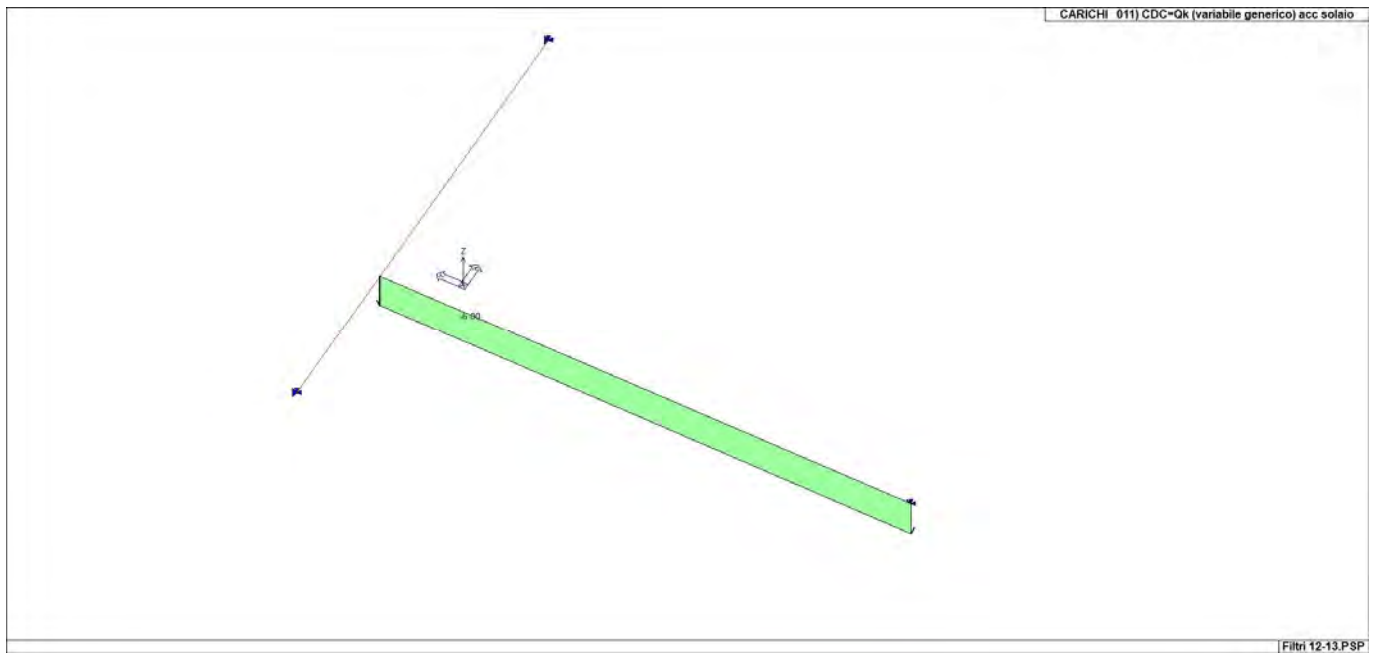
22_CDC_008_CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)



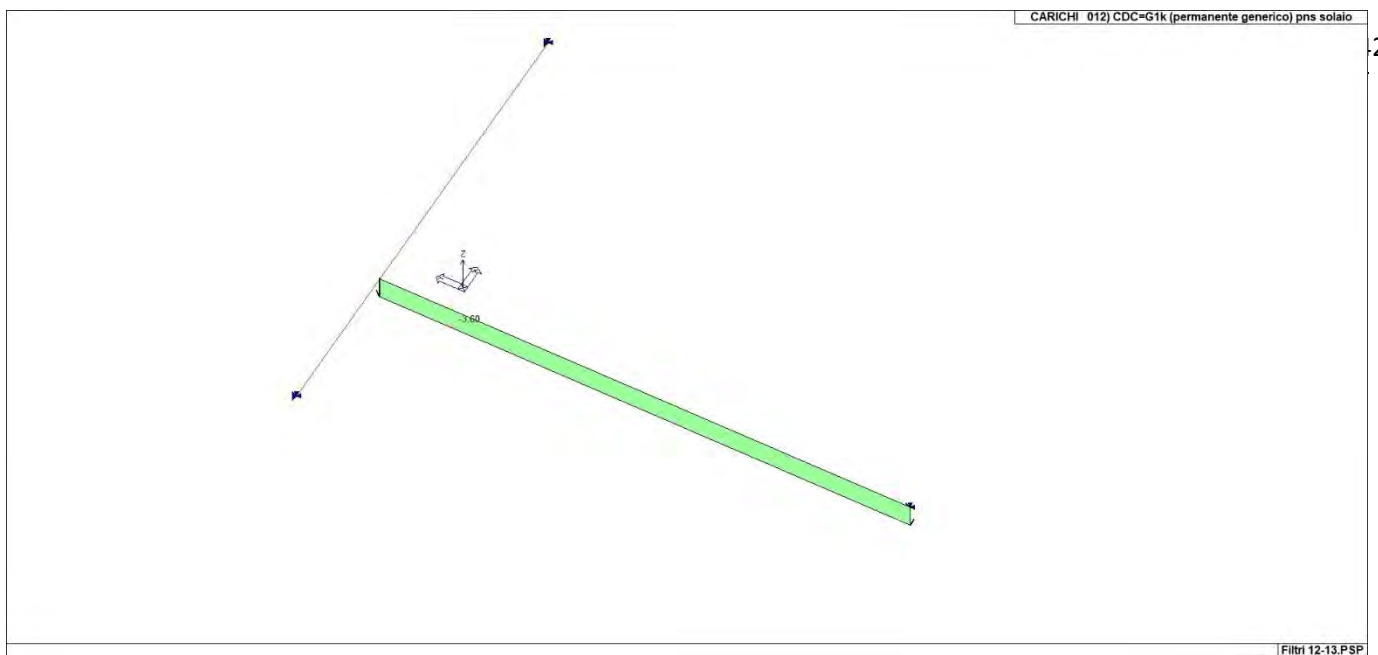
22_CDC_009_CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)



22_CDC_010_CDC=G1k (permanente generico) dead solaio



22_CDC_011_CDC=Qk (variabile generico) acc solaio



22_CDC_012_CDC=G1k (permanente generico) pns solaio

DEFINIZIONE DELLE COMBINAZIONI

LEGENDA TABELLA COMBINAZIONI DI CARICO

Il programma combina i diversi tipi di casi di carico (CDC) secondo le regole previste dalla normativa vigente. Le combinazioni previste sono destinate al controllo di sicurezza della struttura ed alla verifica degli spostamenti e delle sollecitazioni.

La prima tabella delle combinazioni riportata di seguito comprende le seguenti informazioni: Numero, Tipo, Sigla identificativa. Una seconda tabella riporta il peso nella combinazione assunto per ogni caso di carico.

Ai fini delle verifiche degli stati limite si definiscono le seguenti combinazioni delle azioni:

Combinazione fondamentale SLU

$$\gamma G_1 \cdot G_1 + \gamma G_2 \cdot G_2 + \gamma P \cdot P + \gamma Q_1 \cdot Q_{k1} + \gamma Q_2 \cdot \psi_{02} \cdot Q_{k2} + \gamma Q_3 \cdot \psi_{03} \cdot Q_{k3} + \dots$$

Combinazione caratteristica (rara) SLE

$$G_1 + G_2 + P + Q_{k1} + \psi_{02} \cdot Q_{k2} + \psi_{03} \cdot Q_{k3} + \dots$$

Combinazione frequente SLE

$$G_1 + G_2 + P + \psi_{11} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \dots$$

Combinazione quasi permanente SLE

$$G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \dots$$

Combinazione sismica, impiegata per gli stati limite ultimi e di esercizio connessi all'azione sismica E

$$E + G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \dots$$

Combinazione eccezionale, impiegata per gli stati limite connessi alle azioni eccezionali

$$G_1 + G_2 + A_d + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \dots$$

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Dove:

NTC 2018 Tabella 2.5.1

Destinazione d'uso/azione	ψ_0	ψ_1	ψ_2
Categoria A residenziali	0,70	0,50	0,30
Categoria B uffici	0,70	0,50	0,30
Categoria C ambienti suscettibili di affollamento	0,70	0,70	0,60
Categoria D ambienti ad uso commerciale	0,70	0,70	0,60
Categoria E biblioteche, archivi, magazzini,...	1,00	0,90	0,80
Categoria F Rimesse e parcheggi (autoveicoli $\leq 30kN$)	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli $> 30kN$)	0,70	0,50	0,30
Categoria H Coperture	0,00	0,00	0,00
Vento	0,60	0,20	0,00
Neve a quota ≤ 1000 m	0,50	0,20	0,00
Neve a quota > 1000 m	0,70	0,50	0,20
Variazioni Termiche	0,60	0,50	0,00

Nelle verifiche possono essere adottati in alternativa due diversi approcci progettuali:

- per l'approccio 1 si considerano due diverse combinazioni di gruppi di coefficienti di sicurezza parziali per le azioni, per i materiali e per la resistenza globale (combinazione 1 con coefficienti A1 e combinazione 2 con coefficienti A2),
- per l'approccio 2 si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A1).

NTC 2018 Tabella 2.6.1

		Coefficiente γ_f	EQU	A1	A2
Carichi permanenti	Favorevoli	γ_{G1}	0,9	1,0	1,0
	Sfavorevoli		1,1	1,3	1,0
Carichi permanenti non strutturali (Non compiutamente definiti)	Favorevoli	γ_{G2}	0,8	0,8	0,8
	Sfavorevoli		1,5	1,5	1,3
Carichi variabili	Favorevoli	γ_{Qi}	0,0	0,0	0,0
	Sfavorevoli		1,5	1,5	1,3

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 1	
2	SLU	Comb. SLU A1 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SLU	Comb. SLU A1 5	
6	SLU	Comb. SLU A1 6	
7	SLU	Comb. SLU A1 7	
8	SLU	Comb. SLU A1 8	
9	SLU	Comb. SLU A1 (SLV sism.) 9	
10	SLU	Comb. SLU A1 (SLV sism.) 10	
11	SLU	Comb. SLU A1 (SLV sism.) 11	
12	SLU	Comb. SLU A1 (SLV sism.) 12	
13	SLU	Comb. SLU A1 (SLV sism.) 13	
14	SLU	Comb. SLU A1 (SLV sism.) 14	
15	SLU	Comb. SLU A1 (SLV sism.) 15	
16	SLU	Comb. SLU A1 (SLV sism.) 16	
17	SLU	Comb. SLU A1 (SLV sism.) 17	
18	SLU	Comb. SLU A1 (SLV sism.) 18	
19	SLU	Comb. SLU A1 (SLV sism.) 19	
20	SLU	Comb. SLU A1 (SLV sism.) 20	
21	SLU	Comb. SLU A1 (SLV sism.) 21	
22	SLU	Comb. SLU A1 (SLV sism.) 22	
23	SLU	Comb. SLU A1 (SLV sism.) 23	
24	SLU	Comb. SLU A1 (SLV sism.) 24	
25	SLU	Comb. SLU A1 (SLV sism.) 25	
26	SLU	Comb. SLU A1 (SLV sism.) 26	
27	SLU	Comb. SLU A1 (SLV sism.) 27	
28	SLU	Comb. SLU A1 (SLV sism.) 28	
29	SLU	Comb. SLU A1 (SLV sism.) 29	
30	SLU	Comb. SLU A1 (SLV sism.) 30	
31	SLU	Comb. SLU A1 (SLV sism.) 31	
32	SLU	Comb. SLU A1 (SLV sism.) 32	
33	SLU	Comb. SLU A1 (SLV sism.) 33	
34	SLU	Comb. SLU A1 (SLV sism.) 34	
35	SLU	Comb. SLU A1 (SLV sism.) 35	
36	SLU	Comb. SLU A1 (SLV sism.) 36	
37	SLU	Comb. SLU A1 (SLV sism.) 37	
38	SLU	Comb. SLU A1 (SLV sism.) 38	
39	SLU	Comb. SLU A1 (SLV sism.) 39	
40	SLU	Comb. SLU A1 (SLV sism.) 40	
41	SLD(sis)	Comb. SLE (SLD Danno sism.) 41	
42	SLD(sis)	Comb. SLE (SLD Danno sism.) 42	
43	SLD(sis)	Comb. SLE (SLD Danno sism.) 43	
44	SLD(sis)	Comb. SLE (SLD Danno sism.) 44	
45	SLD(sis)	Comb. SLE (SLD Danno sism.) 45	
46	SLD(sis)	Comb. SLE (SLD Danno sism.) 46	
47	SLD(sis)	Comb. SLE (SLD Danno sism.) 47	
48	SLD(sis)	Comb. SLE (SLD Danno sism.) 48	
49	SLD(sis)	Comb. SLE (SLD Danno sism.) 49	
50	SLD(sis)	Comb. SLE (SLD Danno sism.) 50	
51	SLD(sis)	Comb. SLE (SLD Danno sism.) 51	
52	SLD(sis)	Comb. SLE (SLD Danno sism.) 52	
53	SLD(sis)	Comb. SLE (SLD Danno sism.) 53	
54	SLD(sis)	Comb. SLE (SLD Danno sism.) 54	

Cmb	Tipo	Sigla Id	effetto P-delta
55	SLD(sis)	Comb. SLE (SLD Danno sism.) 55	
56	SLD(sis)	Comb. SLE (SLD Danno sism.) 56	
57	SLD(sis)	Comb. SLE (SLD Danno sism.) 57	
58	SLD(sis)	Comb. SLE (SLD Danno sism.) 58	
59	SLD(sis)	Comb. SLE (SLD Danno sism.) 59	
60	SLD(sis)	Comb. SLE (SLD Danno sism.) 60	
61	SLD(sis)	Comb. SLE (SLD Danno sism.) 61	
62	SLD(sis)	Comb. SLE (SLD Danno sism.) 62	
63	SLD(sis)	Comb. SLE (SLD Danno sism.) 63	
64	SLD(sis)	Comb. SLE (SLD Danno sism.) 64	
65	SLD(sis)	Comb. SLE (SLD Danno sism.) 65	
66	SLD(sis)	Comb. SLE (SLD Danno sism.) 66	
67	SLD(sis)	Comb. SLE (SLD Danno sism.) 67	
68	SLD(sis)	Comb. SLE (SLD Danno sism.) 68	
69	SLD(sis)	Comb. SLE (SLD Danno sism.) 69	
70	SLD(sis)	Comb. SLE (SLD Danno sism.) 70	
71	SLD(sis)	Comb. SLE (SLD Danno sism.) 71	
72	SLD(sis)	Comb. SLE (SLD Danno sism.) 72	
73	SLE(p)	Comb. SLE(perm.) 73	
74	SLE(p)	Comb. SLE(perm.) 74	
75	SLE(p)	Comb. SLE(perm.) 75	
76	SLE(p)	Comb. SLE(perm.) 76	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.0	1.30		
2	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.0	1.30		
3	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	1.50	1.30		
4	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	1.50	1.30		
5	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	1.00		
6	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	1.00		145
7	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.50	1.00		
8	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	1.50	1.00		
9	1.00	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
10	1.00	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
11	1.00	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
12	1.00	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
13	1.00	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
14	1.00	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
15	1.00	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
16	1.00	1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
17	1.00	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
18	1.00	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
19	1.00	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
20	1.00	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
21	1.00	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
22	1.00	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
23	1.00	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
24	1.00	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
25	1.00	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
26	1.00	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
27	1.00	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
28	1.00	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
29	1.00	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
30	1.00	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
31	1.00	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
32	1.00	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
33	1.00	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
34	1.00	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
35	1.00	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
36	1.00	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
37	1.00	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
38	1.00	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
39	1.00	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
40	1.00	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	1.00	0.80	1.00		

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
41	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	1.00	0.80	1.00		
42	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	1.00	0.80	1.00		
43	1.00	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	1.00	0.80	1.00		
44	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	1.00	0.80	1.00		
45	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30	1.00	0.80	1.00		
46	1.00	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30	1.00	0.80	1.00		
47	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30	1.00	0.80	1.00		
48	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30	1.00	0.80	1.00		
49	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0	1.00	0.80	1.00		
50	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0	1.00	0.80	1.00		
51	1.00	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0	1.00	0.80	1.00		
52	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0	1.00	0.80	1.00		
53	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	1.00	0.80	1.00		
54	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	1.00	0.80	1.00		
55	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	1.00	0.80	1.00		
56	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	1.00	0.80	1.00		
57	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	1.00	0.80	1.00		
58	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	1.00	0.80	1.00		
59	1.00	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	1.00	0.80	1.00		
60	1.00	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	1.00	0.80	1.00		
61	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0	1.00	0.80	1.00		
62	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0	1.00	0.80	1.00		
63	1.00	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0	1.00	0.80	1.00		
64	1.00	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0	1.00	0.80	1.00		
65	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00	1.00	0.80	1.00		
66	1.00	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00	1.00	0.80	1.00		
67	1.00	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00	1.00	0.80	1.00		
68	1.00	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00	1.00	0.80	1.00		
69	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	1.00	0.80	1.00		
70	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	1.00	0.80	1.00		
71	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	1.00	0.80	1.00		
72	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	1.00	0.80	1.00		
73	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	1.00		
74	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	1.00		
75	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		
76	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.80	1.00		

AZIONE SISMICA

VALUTAZIONE DELL' AZIONE SISMICA

L'azione sismica sulle costruzioni è valutata a partire dalla "pericolosità sismica di base", in condizioni ideali di sito di riferimento rigido con superficie topografica orizzontale.

Allo stato attuale, la pericolosità sismica su reticolo di riferimento nell'intervallo di riferimento è fornita dai dati pubblicati sul sito <http://esse1.mi.ingv.it/>. Per punti non coincidenti con il reticolo di riferimento e periodi di ritorno non contemplati direttamente si opera come indicato nell' allegato alle NTC (rispettivamente media pesata e interpolazione).

L' azione sismica viene definita in relazione ad un periodo di riferimento V_r che si ricava, per ciascun tipo di costruzione, moltiplicandone la vita nominale per il coefficiente d'uso (vedi tabella Parametri della struttura). Fissato il periodo di riferimento V_r e la probabilità di superamento P_{ver} associata a ciascuno degli stati limite considerati, si ottiene il periodo di ritorno T_r e i relativi parametri di pericolosità sismica (vedi tabella successiva):

a_g : accelerazione orizzontale massima del terreno;

F_o : valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;

T^*c : periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale;

Parametri della struttura			
Classe d'uso	Vita V_n [anni]	Coeff. Uso	Periodo V_r [anni]
IV	100.0	2.0	200.0

147

Individuati su reticolo di riferimento i parametri di pericolosità sismica si valutano i parametri spettrali riportati in tabella:

S è il coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche mediante la relazione seguente $S = S_s \cdot S_t$ (3.2.3)

F_o è il fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale

F_v è il fattore che quantifica l'amplificazione spettrale massima verticale, in termini di accelerazione orizzontale massima del terreno a_g su sito di riferimento rigido orizzontale

T_b è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante.

T_c è il periodo corrispondente all'inizio del tratto dello spettro a velocità costante.

T_d è il periodo corrispondente all'inizio del tratto dello spettro a spostamento costante.

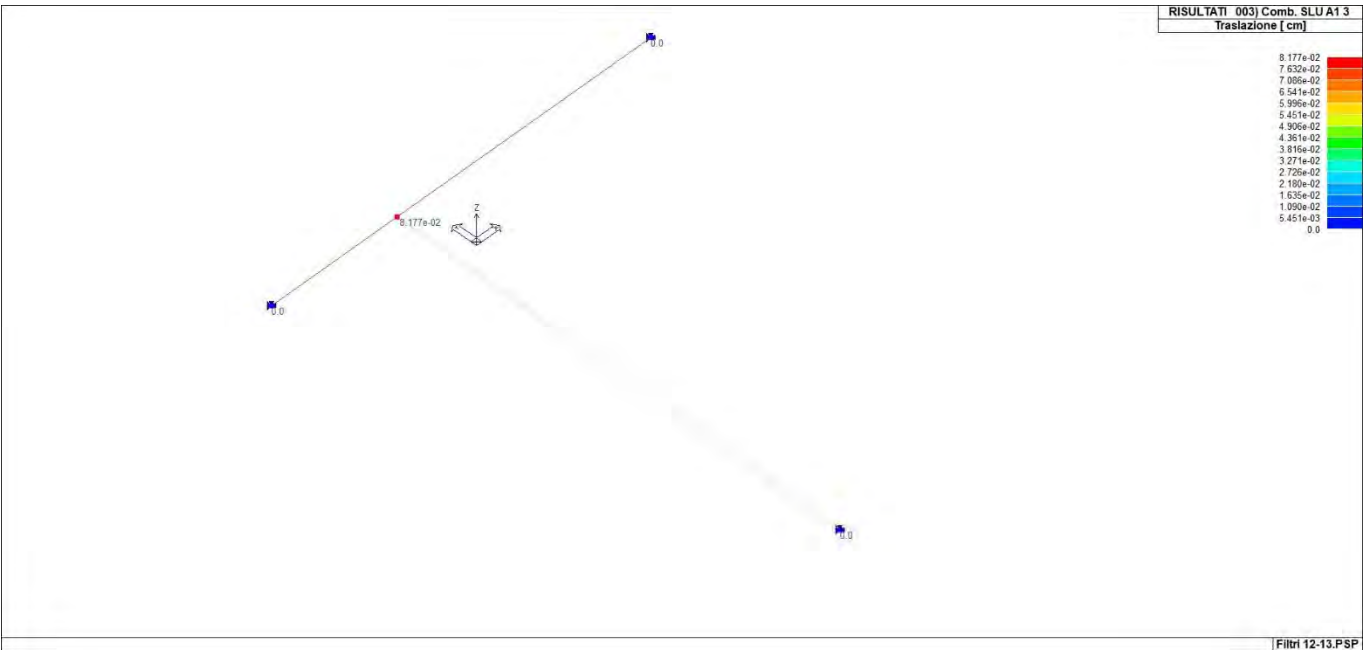
Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	9.190	45.464	
12260	9.146	45.457	3.507
12261	9.217	45.459	2.171
12039	9.214	45.509	5.325
12038	9.143	45.507	6.004

SL	P _{ver}	T _r	a _g	F _o	T* _c
		Anni	g		sec
SLO	81.0	120.0	0.033	2.590	0.220
SLD	63.0	201.0	0.039	2.630	0.250
SLV	10.0	1898.0	0.071	2.750	0.310
SLC	5.0	2475.0	0.075	2.780	0.310

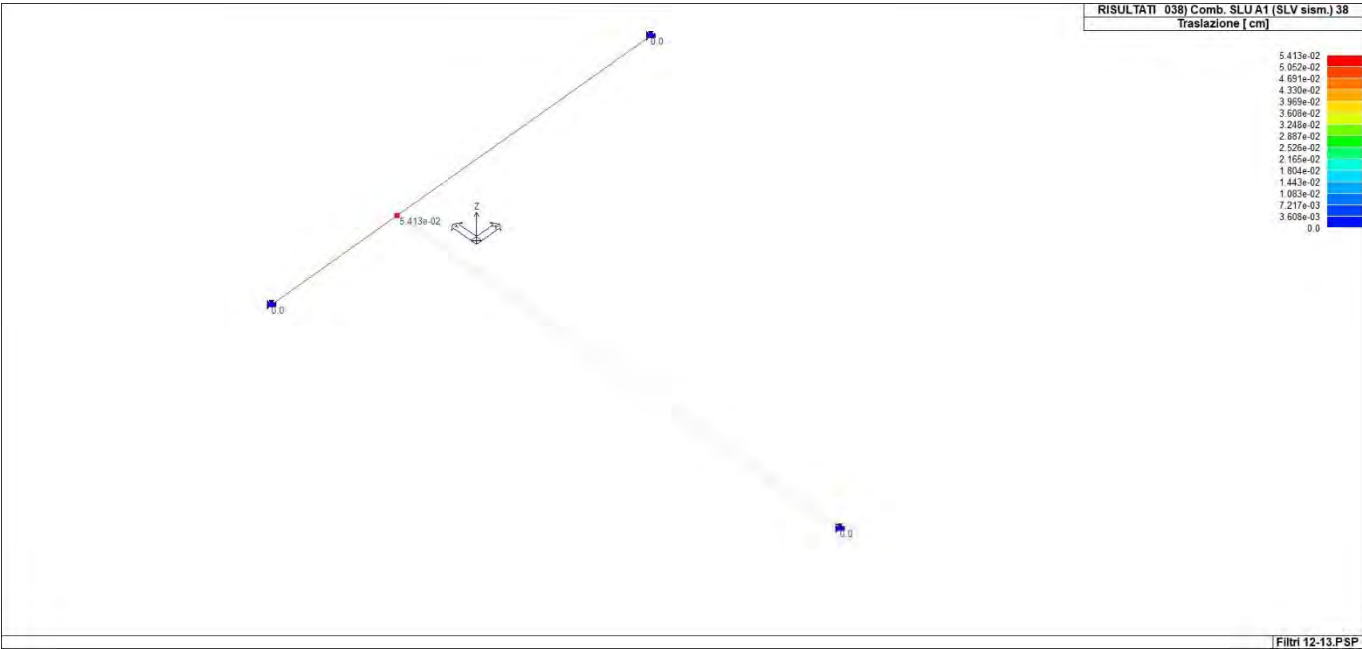
SL	a _g	S	F _o	F _v	T _b	T _c	T _d
	g				sec	sec	sec
SLO	0.033	1.500	2.590	0.638	0.127	0.381	1.733
SLD	0.039	1.500	2.630	0.698	0.138	0.415	1.754
SLV	0.071	1.500	2.750	0.986	0.160	0.479	1.882
SLC	0.075	1.500	2.780	1.031	0.160	0.479	1.902

RISULTATI ANALISI DINAMICHE

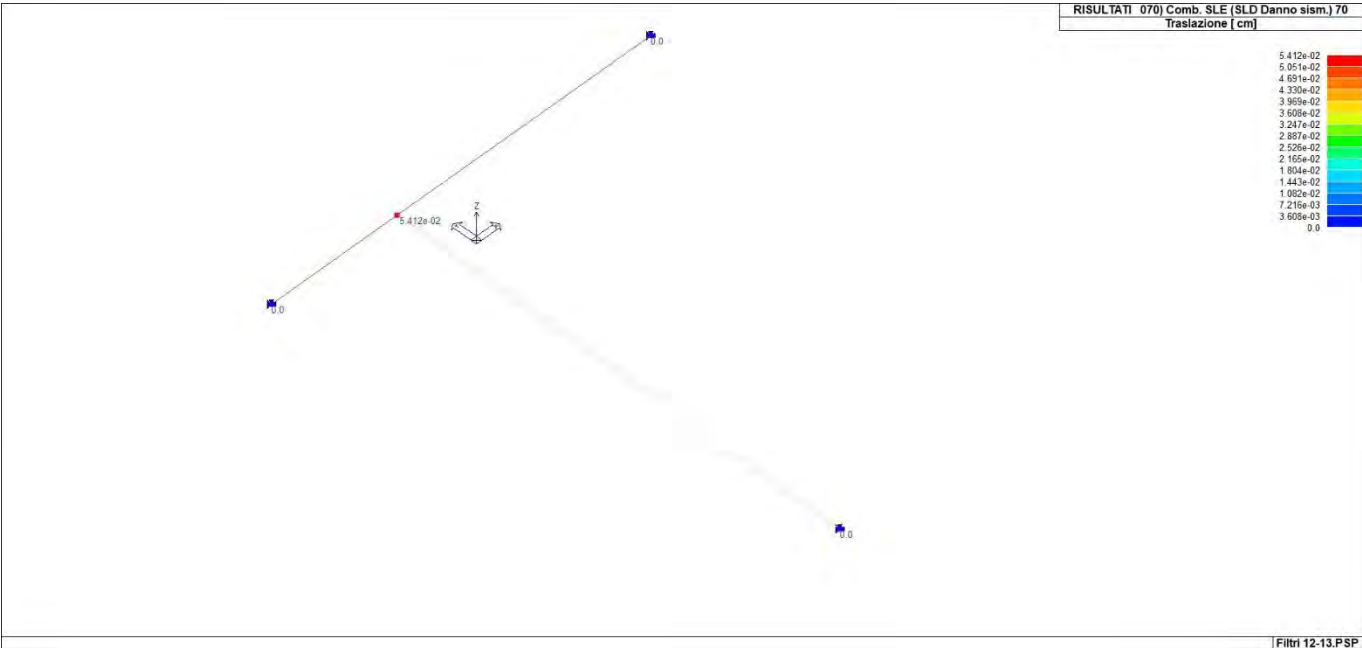
Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		cm	cm	cm			
1	1	0.0	0.0	0.0	9.29e-04	5.67e-04	0.0
1	9	0.0	0.0	0.0	1.16e-03	6.89e-04	2.37e-06
1	41	0.0	0.0	0.0	1.16e-03	6.89e-04	1.31e-06
1	73	0.0	0.0	0.0	7.15e-04	4.36e-04	0.0
2	1	0.0	0.0	0.0	-1.19e-03	2.31e-04	0.0
2	9	0.0	0.0	0.0	-1.47e-03	2.79e-04	0.0
2	41	0.0	0.0	0.0	-1.47e-03	2.79e-04	0.0
2	73	0.0	0.0	0.0	-9.14e-04	1.78e-04	0.0
3	1	0.0	0.0	0.0	9.29e-04	-4.60e-04	0.0
3	9	0.0	0.0	0.0	1.16e-03	-5.56e-04	-1.38e-06
3	41	0.0	0.0	0.0	1.16e-03	-5.56e-04	0.0
3	73	0.0	0.0	0.0	7.15e-04	-3.54e-04	0.0
4	1	0.0	0.0	-0.04	9.29e-04	2.31e-04	0.0
4	3	0.0	0.0	-0.08	1.76e-03	4.22e-04	0.0
4	9	1.33e-04	1.63e-04	-0.05	1.16e-03	2.79e-04	0.0
4	22	1.63e-04	-1.82e-04	-0.05	1.16e-03	2.79e-04	0.0
4	38	4.90e-05	-6.07e-04	-0.05	1.16e-03	2.79e-04	-1.73e-06
4	41	7.30e-05	9.03e-05	-0.05	1.16e-03	2.79e-04	0.0
4	54	8.95e-05	-1.01e-04	-0.05	1.16e-03	2.79e-04	0.0
4	70	2.69e-05	-3.36e-04	-0.05	1.16e-03	2.79e-04	0.0
4	73	0.0	0.0	-0.03	7.15e-04	1.78e-04	0.0
4	75	0.0	0.0	-0.05	1.16e-03	2.79e-04	0.0
Nodo		Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		0.0	-6.07e-04	-0.08	-1.47e-03	-5.56e-04	-1.73e-06
		1.63e-04	1.63e-04	0.0	1.76e-03	6.89e-04	2.37e-06



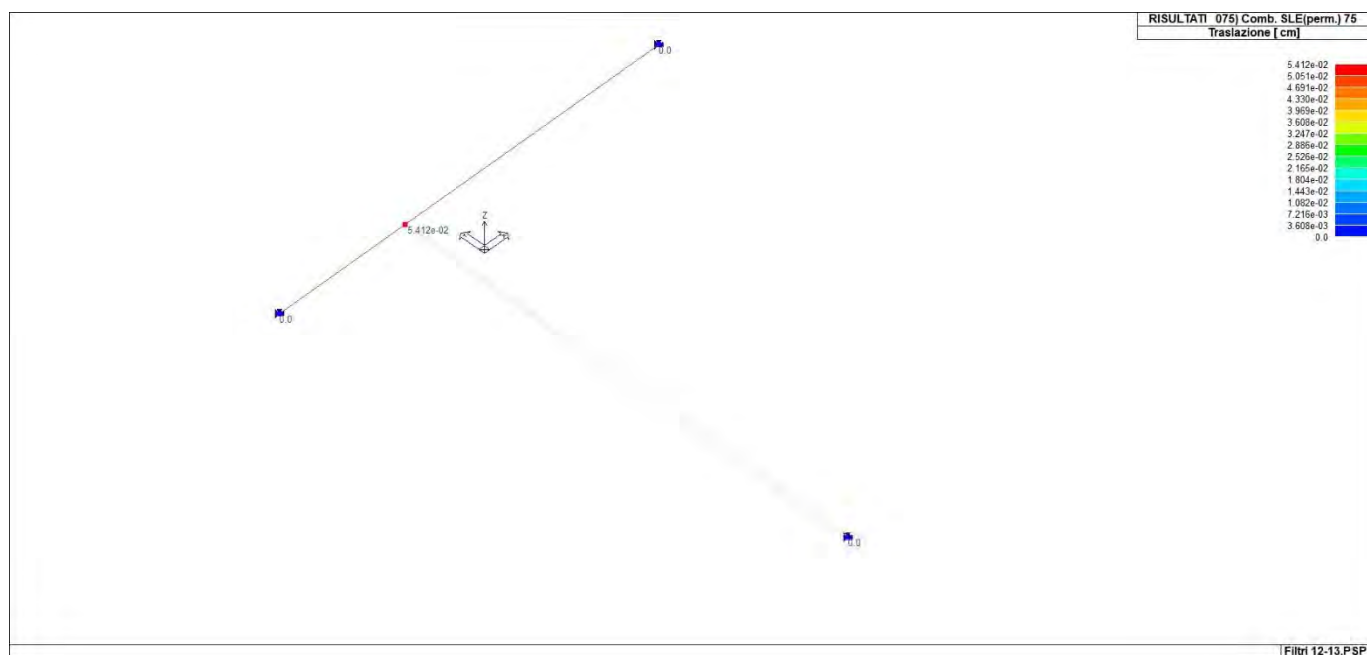
41_RIS_SPOSTAMENTI_003_Comb. SLU A1 3



41_RIS_SPOSTAMENTI_038_Comb. SLU A1 (SLV sism.) 38



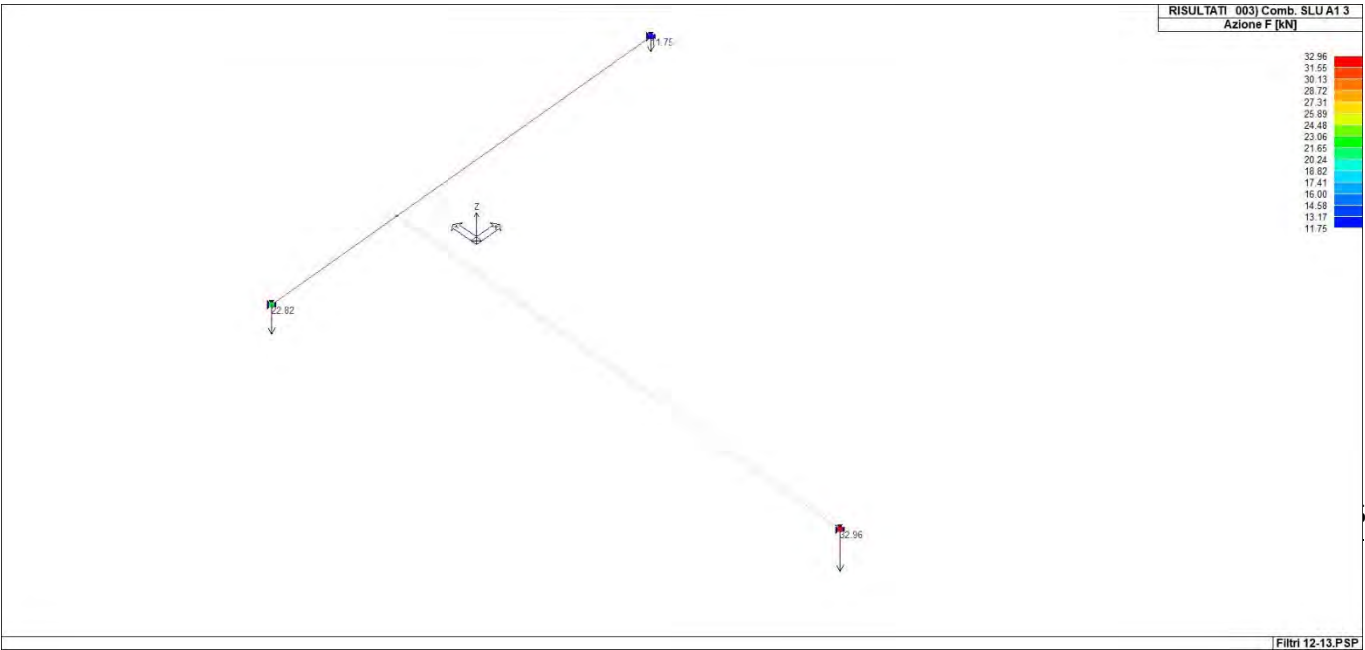
41_RIS_SPOSTAMENTI_070_Comb. SLE (SLD Danno sism.) 70



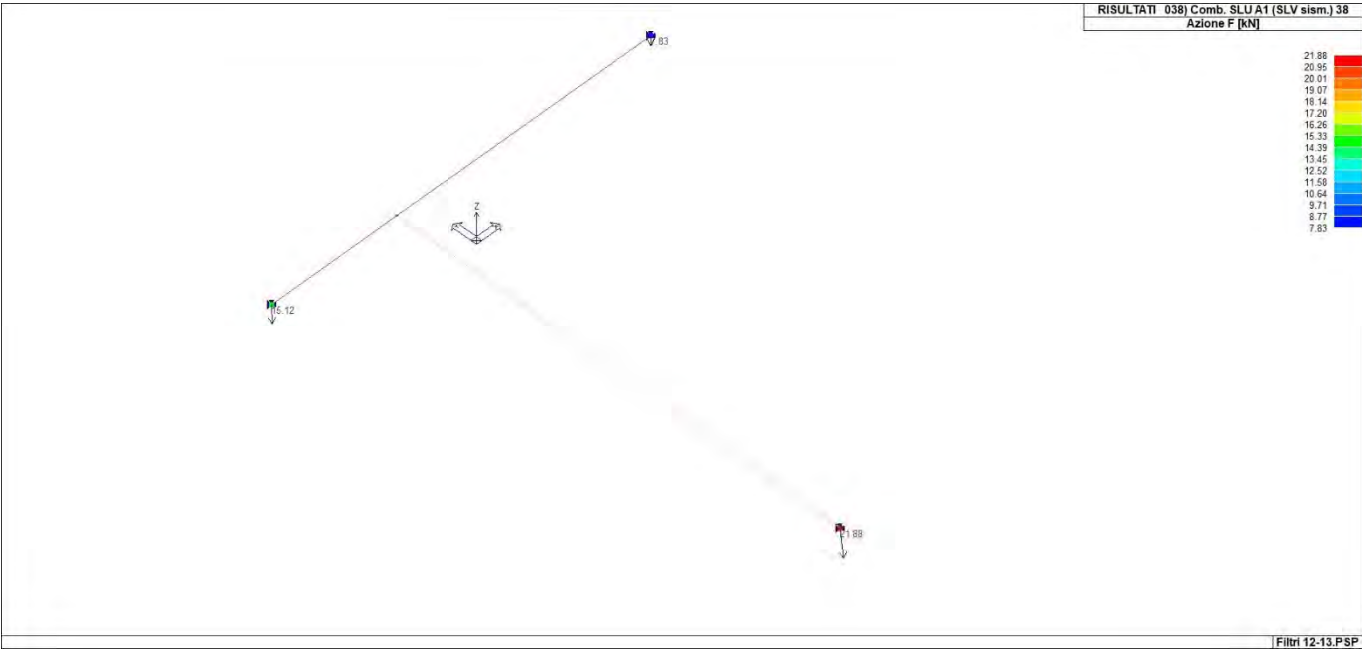
41_RIS_SPOSTAMENTI_075_Comb. SLE(perm.) 75

Nodo	Cmb	Azione X kN	Azione Y kN	Azione Z kN	Azione RX kN m	Azione RY kN m	Azione RZ kN m
1	1	0.0	0.0	-12.46	0.0	0.0	0.0
1	3	0.0	0.0	-22.82	0.0	0.0	0.0
1	5	0.0	0.0	-9.59	0.0	0.0	0.0
1	9	1.53	5.55e-03	-15.11	0.0	0.0	0.0
1	41	0.84	3.06e-03	-15.11	0.0	0.0	0.0
1	73	0.0	0.0	-9.59	0.0	0.0	0.0
1	75	0.0	0.0	-15.11	0.0	0.0	0.0
2	1	0.0	0.0	-17.46	0.0	0.0	0.0
2	3	0.0	0.0	-32.96	0.0	0.0	0.0
2	5	0.0	0.0	-13.43	0.0	0.0	0.0
2	9	9.62e-04	0.77	-21.70	0.0	0.0	0.0
2	41	5.31e-04	0.42	-21.70	0.0	0.0	0.0
2	73	0.0	0.0	-13.43	0.0	0.0	0.0
2	75	0.0	0.0	-21.70	0.0	0.0	0.0
3	1	0.0	0.0	-6.61	0.0	0.0	0.0
3	3	0.0	0.0	-11.75	0.0	0.0	0.0
3	5	0.0	0.0	-5.08	0.0	0.0	0.0
3	9	0.76	1.08e-03	-7.83	0.0	0.0	0.0
3	41	0.42	5.96e-04	-7.83	0.0	0.0	0.0
3	73	0.0	0.0	-5.08	0.0	0.0	0.0
3	75	0.0	0.0	-7.83	0.0	0.0	0.0
Nodo		Azione X kN	Azione Y kN	Azione Z kN	Azione RX kN m	Azione RY kN m	Azione RZ kN m
		0.0	0.0	-32.96	0.0	0.0	0.0
		1.53	0.77	-5.08	0.0	0.0	0.0
Nodo	Cmb	Azione X kN	Azione Y kN	Azione Z kN	Azione RX kN m	Azione RY kN m	Azione RZ kN m
1	3	0.0	0.0	-22.82	0.0	0.0	0.0
	5	0.0	0.0	-9.59	0.0	0.0	0.0
	1	0.0	0.0	-12.46	0.0	0.0	0.0
	1	0.0	0.0	-12.46	0.0	0.0	0.0
	1	0.0	0.0	-12.46	0.0	0.0	0.0
2	3	0.0	0.0	-32.96	0.0	0.0	0.0
	5	0.0	0.0	-13.43	0.0	0.0	0.0

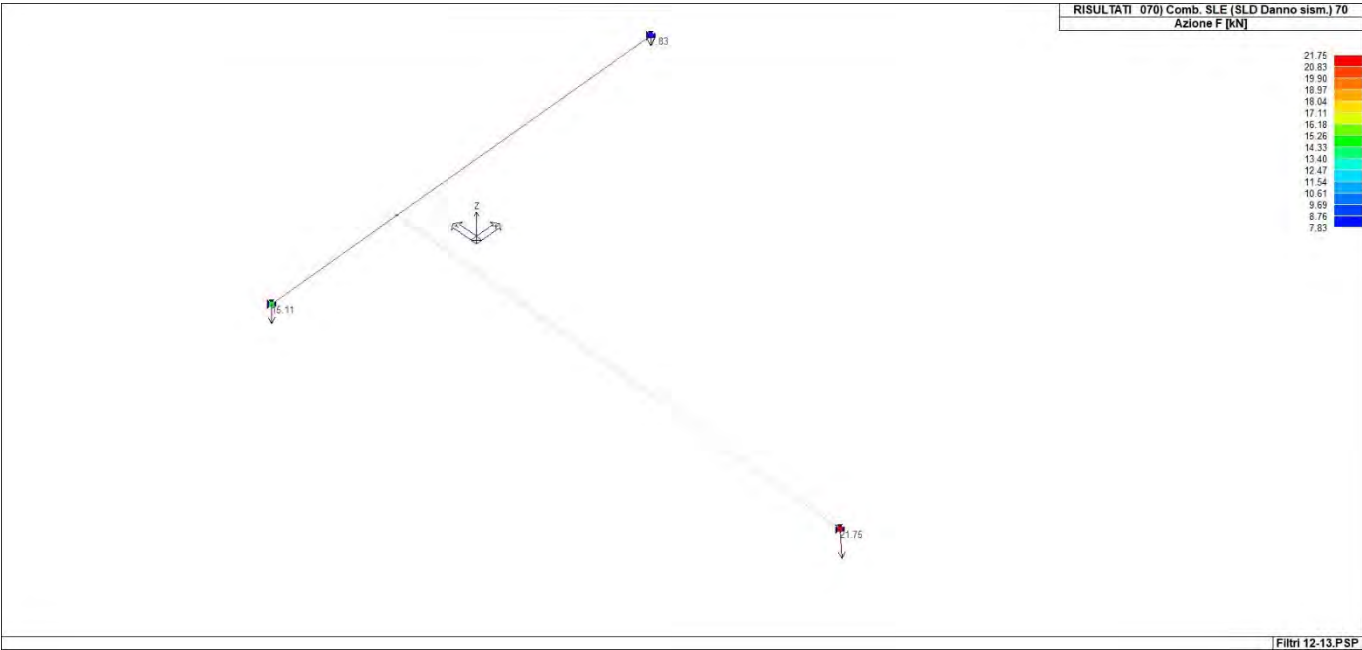
3	1	0.0	0.0	-17.46	0.0	0.0	0.0
	1	0.0	0.0	-17.46	0.0	0.0	0.0
	1	0.0	0.0	-17.46	0.0	0.0	0.0
	1	0.0	0.0	-17.46	0.0	0.0	0.0
	3	0.0	0.0	-11.75	0.0	0.0	0.0
	5	0.0	0.0	-5.08	0.0	0.0	0.0
	1	0.0	0.0	-6.61	0.0	0.0	0.0
	1	0.0	0.0	-6.61	0.0	0.0	0.0
	1	0.0	0.0	-6.61	0.0	0.0	0.0
	1	0.0	0.0	-6.61	0.0	0.0	0.0



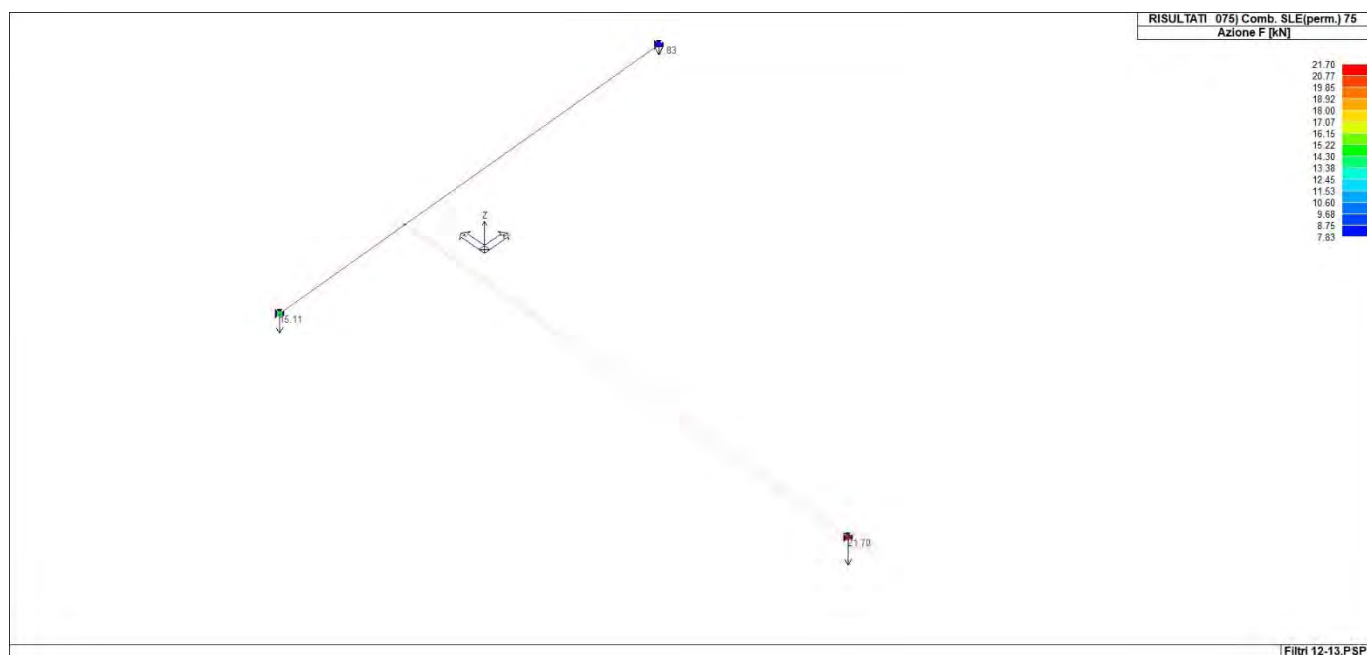
42_RIS_REAZIONI_003_Comb. SLU A1 3



42_RIS_REAZIONI_038_Comb. SLU A1 (SLV sism.) 38



42_RIS_REAZIONI_070_Comb. SLE (SLD Danno sism.) 70



42_RIS_REAZIONI_075_Comb. SLE(perm.) 75

RISULTATI ELEMENTI TIPO TRAVE

Trave	Cmb	M3 mx/mn kN m	M2 mx/mn kN m	D 2 / D 3 m	Q 2 / Q 3 kN	Pos. cm	N kN	V 2 kN	V 3 kN	T kN m	M 2 kN m	M 3 kN m
1	1	15.04	0.0	-1.36e-03	-34.92	0.0	0.0	17.46	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	21.5	0.0	15.28	0.0	0.0	0.0	3.52
						43.1	0.0	13.10	0.0	0.0	0.0	6.58
						64.6	0.0	10.91	0.0	0.0	0.0	9.16
						86.1	0.0	8.73	0.0	0.0	0.0	11.28
						107.6	0.0	6.55	0.0	0.0	0.0	12.92
						129.2	0.0	4.37	0.0	0.0	0.0	14.10
						150.7	0.0	2.18	0.0	0.0	0.0	14.80
						172.2	0.0	0.0	0.0	0.0	0.0	15.04
						193.7	0.0	-2.18	0.0	0.0	0.0	14.80
						215.3	0.0	-4.37	0.0	0.0	0.0	14.10
						236.8	0.0	-6.55	0.0	0.0	0.0	12.92
						258.3	0.0	-8.73	0.0	0.0	0.0	11.28
						279.9	0.0	-10.91	0.0	0.0	0.0	9.16
						301.4	0.0	-13.10	0.0	0.0	0.0	6.58
						322.9	0.0	-15.28	0.0	0.0	0.0	3.52
						344.4	0.0	-17.46	0.0	0.0	0.0	0.0
1	3	28.38	0.0	-2.56e-03	-65.92	0.0	0.0	32.96	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	21.5	0.0	28.84	0.0	0.0	0.0	6.65
						43.1	0.0	24.72	0.0	0.0	0.0	12.42
						64.6	0.0	20.60	0.0	0.0	0.0	17.30
						86.1	0.0	16.48	0.0	0.0	0.0	21.29
						107.6	0.0	12.36	0.0	0.0	0.0	24.39
						129.2	0.0	8.24	0.0	0.0	0.0	26.61
						150.7	0.0	4.12	0.0	0.0	0.0	27.94
						172.2	0.0	0.0	0.0	0.0	0.0	28.38
						193.7	0.0	-4.12	0.0	0.0	0.0	27.94
						215.3	0.0	-8.24	0.0	0.0	0.0	26.61
						236.8	0.0	-12.36	0.0	0.0	0.0	24.39
						258.3	0.0	-16.48	0.0	0.0	0.0	21.29
						279.9	0.0	-20.60	0.0	0.0	0.0	17.30
						301.4	0.0	-24.72	0.0	0.0	0.0	12.42
						322.9	0.0	-28.84	0.0	0.0	0.0	6.65
						344.4	0.0	-32.96	0.0	0.0	0.0	0.0
1	9	18.68	0.0	-1.69e-03	-43.40	0.0	0.77	21.70	-9.62e-04	0.0	0.0	0.0
		0.0	-3.32e-03	1.39e-06	0.0	21.5	0.77	18.99	-9.62e-04	0.0	-2.07e-04	4.38

						43.1	0.77	16.27	-9.62e-04	0.0	-4.14e-04	8.17
						64.6	0.77	13.56	-9.62e-04	0.0	-6.22e-04	11.39
						86.1	0.77	10.85	-9.62e-04	0.0	-8.29e-04	14.01
						107.6	0.77	8.14	-9.62e-04	0.0	-1.04e-03	16.06
						129.2	0.77	5.42	-9.62e-04	0.0	-1.24e-03	17.52
						150.7	0.77	2.71	-9.62e-04	0.0	-1.45e-03	18.39
						172.2	0.77	0.0	-9.62e-04	0.0	-1.66e-03	18.68
						193.7	0.77	-2.71	-9.62e-04	0.0	-1.86e-03	18.39
						215.3	0.77	-5.42	-9.62e-04	0.0	-2.07e-03	17.52
						236.8	0.77	-8.14	-9.62e-04	0.0	-2.28e-03	16.06
						258.3	0.77	-10.85	-9.62e-04	0.0	-2.49e-03	14.01
						279.9	0.77	-13.56	-9.62e-04	0.0	-2.69e-03	11.39
						301.4	0.77	-16.27	-9.62e-04	0.0	-2.90e-03	8.17
						322.9	0.77	-18.99	-9.62e-04	0.0	-3.11e-03	4.38
						344.4	0.77	-21.70	-9.62e-04	0.0	-3.32e-03	0.0
1	37	18.68	0.0	-1.69e-03	-43.40	0.0	2.84	21.70	-2.56e-03	0.0	0.0	0.0
		0.0	-8.81e-03	1.44e-06	0.0	21.5	2.84	18.99	-2.56e-03	0.0	-5.51e-04	4.38
						43.1	2.84	16.27	-2.56e-03	0.0	-1.10e-03	8.17
						64.6	2.84	13.56	-2.56e-03	0.0	-1.65e-03	11.39
						86.1	2.84	10.85	-2.56e-03	0.0	-2.20e-03	14.01
						107.6	2.84	8.14	-2.56e-03	0.0	-2.75e-03	16.06
						129.2	2.84	5.42	-2.56e-03	0.0	-3.30e-03	17.52
						150.7	2.84	2.71	-2.56e-03	0.0	-3.86e-03	18.39
						172.2	2.84	0.0	-2.56e-03	0.0	-4.41e-03	18.68
						193.7	2.84	-2.71	-2.56e-03	0.0	-4.96e-03	18.39
						215.3	2.84	-5.42	-2.56e-03	0.0	-5.51e-03	17.52
						236.8	2.84	-8.14	-2.56e-03	0.0	-6.06e-03	16.06
						258.3	2.84	-10.85	-2.56e-03	0.0	-6.61e-03	14.01
						279.9	2.84	-13.56	-2.56e-03	0.0	-7.16e-03	11.39
						301.4	2.84	-16.27	-2.56e-03	0.0	-7.71e-03	8.17
						322.9	2.84	-18.99	-2.56e-03	0.0	-8.26e-03	4.38
						344.4	2.84	-21.70	-2.56e-03	0.0	-8.81e-03	0.0
1	38	18.68	8.04e-03	-1.69e-03	-43.40	0.0	-2.84	21.70	2.34e-03	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	21.5	-2.84	18.99	2.34e-03	0.0	5.03e-04	4.38
						43.1	-2.84	16.27	2.34e-03	0.0	1.01e-03	8.17
						64.6	-2.84	13.56	2.34e-03	0.0	1.51e-03	11.39
						86.1	-2.84	10.85	2.34e-03	0.0	2.01e-03	14.01
						107.6	-2.84	8.14	2.34e-03	0.0	2.51e-03	16.06
						129.2	-2.84	5.42	2.34e-03	0.0	3.02e-03	17.52
						150.7	-2.84	2.71	2.34e-03	0.0	3.52e-03	18.39
						172.2	-2.84	0.0	2.34e-03	0.0	4.02e-03	18.68
						193.7	-2.84	-2.71	2.34e-03	0.0	4.53e-03	18.39
						215.3	-2.84	-5.42	2.34e-03	0.0	5.03e-03	17.52
						236.8	-2.84	-8.14	2.34e-03	0.0	5.53e-03	16.06
						258.3	-2.84	-10.85	2.34e-03	0.0	6.03e-03	14.01
						279.9	-2.84	-13.56	2.34e-03	0.0	6.54e-03	11.39
						301.4	-2.84	-16.27	2.34e-03	0.0	7.04e-03	8.17
						322.9	-2.84	-18.99	2.34e-03	0.0	7.54e-03	4.38
						344.4	-2.84	-21.70	2.34e-03	0.0	8.04e-03	0.0
1	39	18.68	0.0	-1.69e-03	-43.40	0.0	2.84	21.70	-2.34e-03	0.0	0.0	0.0
		0.0	-8.04e-03	0.0	0.0	21.5	2.84	18.99	-2.34e-03	0.0	-5.03e-04	4.38
						43.1	2.84	16.27	-2.34e-03	0.0	-1.01e-03	8.17
						64.6	2.84	13.56	-2.34e-03	0.0	-1.51e-03	11.39
						86.1	2.84	10.85	-2.34e-03	0.0	-2.01e-03	14.01
						107.6	2.84	8.14	-2.34e-03	0.0	-2.51e-03	16.06
						129.2	2.84	5.42	-2.34e-03	0.0	-3.02e-03	17.52
						150.7	2.84	2.71	-2.34e-03	0.0	-3.52e-03	18.39
						172.2	2.84	0.0	-2.34e-03	0.0	-4.02e-03	18.68
						193.7	2.84	-2.71	-2.34e-03	0.0	-4.53e-03	18.39
						215.3	2.84	-5.42	-2.34e-03	0.0	-5.03e-03	17.52
						236.8	2.84	-8.14	-2.34e-03	0.0	-5.53e-03	16.06
						258.3	2.84	-10.85	-2.34e-03	0.0	-6.03e-03	14.01
						279.9	2.84	-13.56	-2.34e-03	0.0	-6.54e-03	11.39
						301.4	2.84	-16.27	-2.34e-03	0.0	-7.04e-03	8.17
						322.9	2.84	-18.99	-2.34e-03	0.0	-7.54e-03	4.38
						344.4	2.84	-21.70	-2.34e-03	0.0	-8.04e-03	0.0
1	40	18.68	8.81e-03	-1.69e-03	-43.40	0.0	-2.84	21.70	2.56e-03	0.0	0.0	0.0
		0.0	0.0	-1.44e-06	0.0	21.5	-2.84	18.99	2.56e-03	0.0	5.51e-04	4.38
						43.1	-2.84	16.27	2.56e-03	0.0	1.10e-03	8.17
						64.6	-2.84	13.56	2.56e-03	0.0	1.65e-03	11.39
						86.1	-2.84	10.85	2.56e-03	0.0	2.20e-03	14.01
						107.6	-2.84	8.14	2.56e-03	0.0	2.75e-03	16.06

						129.2	-2.84	5.42	2.56e-03	0.0	3.30e-03	17.52
						150.7	-2.84	2.71	2.56e-03	0.0	3.86e-03	18.39
						172.2	-2.84	0.0	2.56e-03	0.0	4.41e-03	18.68
						193.7	-2.84	-2.71	2.56e-03	0.0	4.96e-03	18.39
						215.3	-2.84	-5.42	2.56e-03	0.0	5.51e-03	17.52
						236.8	-2.84	-8.14	2.56e-03	0.0	6.06e-03	16.06
						258.3	-2.84	-10.85	2.56e-03	0.0	6.61e-03	14.01
						279.9	-2.84	-13.56	2.56e-03	0.0	7.16e-03	11.39
						301.4	-2.84	-16.27	2.56e-03	0.0	7.71e-03	8.17
						322.9	-2.84	-18.99	2.56e-03	0.0	8.26e-03	4.38
						344.4	-2.84	-21.70	2.56e-03	0.0	8.81e-03	0.0
1	41	18.68	0.0	-1.69e-03	-43.40	0.0	0.42	21.70	-5.31e-04	0.0	0.0	0.0
		0.0	-1.83e-03	0.0	0.0	21.5	0.42	18.99	-5.31e-04	0.0	-1.14e-04	4.38
						43.1	0.42	16.27	-5.31e-04	0.0	-2.29e-04	8.17
						64.6	0.42	13.56	-5.31e-04	0.0	-3.43e-04	11.39
						86.1	0.42	10.85	-5.31e-04	0.0	-4.57e-04	14.01
						107.6	0.42	8.14	-5.31e-04	0.0	-5.71e-04	16.06
						129.2	0.42	5.42	-5.31e-04	0.0	-6.86e-04	17.52
						150.7	0.42	2.71	-5.31e-04	0.0	-8.00e-04	18.39
						172.2	0.42	0.0	-5.31e-04	0.0	-9.14e-04	18.68
						193.7	0.42	-2.71	-5.31e-04	0.0	-1.03e-03	18.39
						215.3	0.42	-5.42	-5.31e-04	0.0	-1.14e-03	17.52
						236.8	0.42	-8.14	-5.31e-04	0.0	-1.26e-03	16.06
						258.3	0.42	-10.85	-5.31e-04	0.0	-1.37e-03	14.01
						279.9	0.42	-13.56	-5.31e-04	0.0	-1.49e-03	11.39
						301.4	0.42	-16.27	-5.31e-04	0.0	-1.60e-03	8.17
						322.9	0.42	-18.99	-5.31e-04	0.0	-1.71e-03	4.38
						344.4	0.42	-21.70	-5.31e-04	0.0	-1.83e-03	0.0
1	69	18.68	0.0	-1.69e-03	-43.40	0.0	1.57	21.70	-1.41e-03	0.0	0.0	0.0
		0.0	-4.87e-03	0.0	0.0	21.5	1.57	18.99	-1.41e-03	0.0	-3.04e-04	4.38
						43.1	1.57	16.27	-1.41e-03	0.0	-6.09e-04	8.17
						64.6	1.57	13.56	-1.41e-03	0.0	-9.13e-04	11.39
						86.1	1.57	10.85	-1.41e-03	0.0	-1.22e-03	14.01
						107.6	1.57	8.14	-1.41e-03	0.0	-1.52e-03	16.06
						129.2	1.57	5.42	-1.41e-03	0.0	-1.83e-03	17.52
						150.7	1.57	2.71	-1.41e-03	0.0	-2.13e-03	18.39
						172.2	1.57	0.0	-1.41e-03	0.0	-2.43e-03	18.68
						193.7	1.57	-2.71	-1.41e-03	0.0	-2.74e-03	18.39
						215.3	1.57	-5.42	-1.41e-03	0.0	-3.04e-03	17.52
						236.8	1.57	-8.14	-1.41e-03	0.0	-3.35e-03	16.06
						258.3	1.57	-10.85	-1.41e-03	0.0	-3.65e-03	14.01
						279.9	1.57	-13.56	-1.41e-03	0.0	-3.96e-03	11.39
						301.4	1.57	-16.27	-1.41e-03	0.0	-4.26e-03	8.17
						322.9	1.57	-18.99	-1.41e-03	0.0	-4.56e-03	4.38
						344.4	1.57	-21.70	-1.41e-03	0.0	-4.87e-03	0.0
1	70	18.68	4.45e-03	-1.69e-03	-43.40	0.0	-1.57	21.70	1.29e-03	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	21.5	-1.57	18.99	1.29e-03	0.0	2.78e-04	4.38
						43.1	-1.57	16.27	1.29e-03	0.0	5.56e-04	8.17
						64.6	-1.57	13.56	1.29e-03	0.0	8.34e-04	11.39
						86.1	-1.57	10.85	1.29e-03	0.0	1.11e-03	14.01
						107.6	-1.57	8.14	1.29e-03	0.0	1.39e-03	16.06
						129.2	-1.57	5.42	1.29e-03	0.0	1.67e-03	17.52
						150.7	-1.57	2.71	1.29e-03	0.0	1.95e-03	18.39
						172.2	-1.57	0.0	1.29e-03	0.0	2.22e-03	18.68
						193.7	-1.57	-2.71	1.29e-03	0.0	2.50e-03	18.39
						215.3	-1.57	-5.42	1.29e-03	0.0	2.78e-03	17.52
						236.8	-1.57	-8.14	1.29e-03	0.0	3.06e-03	16.06
						258.3	-1.57	-10.85	1.29e-03	0.0	3.33e-03	14.01
						279.9	-1.57	-13.56	1.29e-03	0.0	3.61e-03	11.39
						301.4	-1.57	-16.27	1.29e-03	0.0	3.89e-03	8.17
						322.9	-1.57	-18.99	1.29e-03	0.0	4.17e-03	4.38
						344.4	-1.57	-21.70	1.29e-03	0.0	4.45e-03	0.0
1	71	18.68	0.0	-1.69e-03	-43.40	0.0	1.57	21.70	-1.29e-03	0.0	0.0	0.0
		0.0	-4.45e-03	0.0	0.0	21.5	1.57	18.99	-1.29e-03	0.0	-2.78e-04	4.38
						43.1	1.57	16.27	-1.29e-03	0.0	-5.56e-04	8.17
						64.6	1.57	13.56	-1.29e-03	0.0	-8.34e-04	11.39
						86.1	1.57	10.85	-1.29e-03	0.0	-1.11e-03	14.01
						107.6	1.57	8.14	-1.29e-03	0.0	-1.39e-03	16.06
						129.2	1.57	5.42	-1.29e-03	0.0	-1.67e-03	17.52
						150.7	1.57	2.71	-1.29e-03	0.0	-1.95e-03	18.39
						172.2	1.57	0.0	-1.29e-03	0.0	-2.22e-03	18.68
						193.7	1.57	-2.71	-1.29e-03	0.0	-2.50e-03	18.39

						215.3	1.57	-5.42	-1.29e-03	0.0	-2.78e-03	17.52
						236.8	1.57	-8.14	-1.29e-03	0.0	-3.06e-03	16.06
						258.3	1.57	-10.85	-1.29e-03	0.0	-3.33e-03	14.01
						279.9	1.57	-13.56	-1.29e-03	0.0	-3.61e-03	11.39
						301.4	1.57	-16.27	-1.29e-03	0.0	-3.89e-03	8.17
						322.9	1.57	-18.99	-1.29e-03	0.0	-4.17e-03	4.38
						344.4	1.57	-21.70	-1.29e-03	0.0	-4.45e-03	0.0
1	72	18.68	4.87e-03	-1.69e-03	-43.40	0.0	-1.57	21.70	1.41e-03	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	21.5	-1.57	18.99	1.41e-03	0.0	3.04e-04	4.38
						43.1	-1.57	16.27	1.41e-03	0.0	6.09e-04	8.17
						64.6	-1.57	13.56	1.41e-03	0.0	9.13e-04	11.39
						86.1	-1.57	10.85	1.41e-03	0.0	1.22e-03	14.01
						107.6	-1.57	8.14	1.41e-03	0.0	1.52e-03	16.06
						129.2	-1.57	5.42	1.41e-03	0.0	1.83e-03	17.52
						150.7	-1.57	2.71	1.41e-03	0.0	2.13e-03	18.39
						172.2	-1.57	0.0	1.41e-03	0.0	2.43e-03	18.68
						193.7	-1.57	-2.71	1.41e-03	0.0	2.74e-03	18.39
						215.3	-1.57	-5.42	1.41e-03	0.0	3.04e-03	17.52
						236.8	-1.57	-8.14	1.41e-03	0.0	3.35e-03	16.06
						258.3	-1.57	-10.85	1.41e-03	0.0	3.65e-03	14.01
						279.9	-1.57	-13.56	1.41e-03	0.0	3.96e-03	11.39
						301.4	-1.57	-16.27	1.41e-03	0.0	4.26e-03	8.17
						322.9	-1.57	-18.99	1.41e-03	0.0	4.56e-03	4.38
						344.4	-1.57	-21.70	1.41e-03	0.0	4.87e-03	0.0
1	73	11.57	0.0	-1.05e-03	-26.86	0.0	0.0	13.43	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	21.5	0.0	11.75	0.0	0.0	0.0	2.71
						43.1	0.0	10.07	0.0	0.0	0.0	5.06
						64.6	0.0	8.39	0.0	0.0	0.0	7.05
						86.1	0.0	6.72	0.0	0.0	0.0	8.67
						107.6	0.0	5.04	0.0	0.0	0.0	9.94
						129.2	0.0	3.36	0.0	0.0	0.0	10.84
						150.7	0.0	1.68	0.0	0.0	0.0	11.38
						172.2	0.0	0.0	0.0	0.0	0.0	11.57
						193.7	0.0	-1.68	0.0	0.0	0.0	11.38
						215.3	0.0	-3.36	0.0	0.0	0.0	10.84
						236.8	0.0	-5.04	0.0	0.0	0.0	9.94
						258.3	0.0	-6.72	0.0	0.0	0.0	8.67
						279.9	0.0	-8.39	0.0	0.0	0.0	7.05
						301.4	0.0	-10.07	0.0	0.0	0.0	5.06
						322.9	0.0	-11.75	0.0	0.0	0.0	2.71
						344.4	0.0	-13.43	0.0	0.0	0.0	0.0
1	75	18.68	0.0	-1.69e-03	-43.40	0.0	0.0	21.70	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	21.5	0.0	18.99	0.0	0.0	0.0	4.38
						43.1	0.0	16.27	0.0	0.0	0.0	8.17
						64.6	0.0	13.56	0.0	0.0	0.0	11.39
						86.1	0.0	10.85	0.0	0.0	0.0	14.01
						107.6	0.0	8.14	0.0	0.0	0.0	16.06
						129.2	0.0	5.42	0.0	0.0	0.0	17.52
						150.7	0.0	2.71	0.0	0.0	0.0	18.39
						172.2	0.0	0.0	0.0	0.0	0.0	18.68
						193.7	0.0	-2.71	0.0	0.0	0.0	18.39
						215.3	0.0	-5.42	0.0	0.0	0.0	17.52
						236.8	0.0	-8.14	0.0	0.0	0.0	16.06
						258.3	0.0	-10.85	0.0	0.0	0.0	14.01
						279.9	0.0	-13.56	0.0	0.0	0.0	11.39
						301.4	0.0	-16.27	0.0	0.0	0.0	8.17
						322.9	0.0	-18.99	0.0	0.0	0.0	4.38
						344.4	0.0	-21.70	0.0	0.0	0.0	0.0
2	1	11.95	0.0	4.46e-04	-1.07	0.0	0.0	-5.53	0.0	0.0	0.0	11.95
		0.0	0.0	0.0	0.0	12.3	0.0	-5.60	0.0	0.0	0.0	11.27
						24.6	0.0	-5.66	0.0	0.0	0.0	10.58
						36.9	0.0	-5.73	0.0	0.0	0.0	9.87
						49.3	0.0	-5.80	0.0	0.0	0.0	9.16
						61.6	0.0	-5.87	0.0	0.0	0.0	8.45
						73.9	0.0	-5.93	0.0	0.0	0.0	7.72
						86.2	0.0	-6.00	0.0	0.0	0.0	6.98
						98.5	0.0	-6.07	0.0	0.0	0.0	6.24
						110.8	0.0	-6.13	0.0	0.0	0.0	5.49
						123.1	0.0	-6.20	0.0	0.0	0.0	4.73
						135.4	0.0	-6.27	0.0	0.0	0.0	3.96
						147.8	0.0	-6.34	0.0	0.0	0.0	3.19
						160.1	0.0	-6.40	0.0	0.0	0.0	2.40

							172.4	0.0	-6.47	0.0	0.0	0.0	1.61
							184.7	0.0	-6.54	0.0	0.0	0.0	0.81
							197.0	0.0	-6.61	0.0	0.0	0.0	0.0
2	3	22.10	0.0	8.18e-04	-1.07	0.0	0.0	0.0	-10.68	0.0	0.0	0.0	22.10
		0.0	0.0	0.0	0.0		12.3	0.0	-10.75	0.0	0.0	0.0	20.78
							24.6	0.0	-10.81	0.0	0.0	0.0	19.45
							36.9	0.0	-10.88	0.0	0.0	0.0	18.12
							49.3	0.0	-10.95	0.0	0.0	0.0	16.77
							61.6	0.0	-11.02	0.0	0.0	0.0	15.42
							73.9	0.0	-11.08	0.0	0.0	0.0	14.06
							86.2	0.0	-11.15	0.0	0.0	0.0	12.69
							98.5	0.0	-11.22	0.0	0.0	0.0	11.31
							110.8	0.0	-11.28	0.0	0.0	0.0	9.93
							123.1	0.0	-11.35	0.0	0.0	0.0	8.53
							135.4	0.0	-11.42	0.0	0.0	0.0	7.13
							147.8	0.0	-11.49	0.0	0.0	0.0	5.72
							160.1	0.0	-11.55	0.0	0.0	0.0	4.30
							172.4	0.0	-11.62	0.0	0.0	0.0	2.88
							184.7	0.0	-11.69	0.0	0.0	0.0	1.44
							197.0	0.0	-11.75	0.0	0.0	0.0	0.0
2	9	14.60	2.12e-03	5.41e-04	-0.83	0.0	0.0	-0.76	-7.00	-1.08e-03	0.0	2.12e-03	14.60
		0.0	0.0	1.63e-06	0.0		12.3	-0.76	-7.05	-1.08e-03	0.0	1.99e-03	13.74
							24.6	-0.76	-7.10	-1.08e-03	0.0	1.86e-03	12.87
							36.9	-0.76	-7.16	-1.08e-03	0.0	1.73e-03	11.99
							49.3	-0.76	-7.21	-1.08e-03	0.0	1.59e-03	11.11
							61.6	-0.76	-7.26	-1.08e-03	0.0	1.46e-03	10.22
							73.9	-0.76	-7.31	-1.08e-03	0.0	1.33e-03	9.32
							86.2	-0.76	-7.36	-1.08e-03	0.0	1.19e-03	8.42
							98.5	-0.76	-7.41	-1.08e-03	0.0	1.06e-03	7.51
							110.8	-0.76	-7.47	-1.08e-03	0.0	9.29e-04	6.59
							123.1	-0.76	-7.52	-1.08e-03	0.0	7.97e-04	5.67
							135.4	-0.76	-7.57	-1.08e-03	0.0	6.64e-04	4.74
							147.8	-0.76	-7.62	-1.08e-03	0.0	5.31e-04	3.80
							160.1	-0.76	-7.67	-1.08e-03	0.0	3.98e-04	2.86
							172.4	-0.76	-7.72	-1.08e-03	0.0	2.66e-04	1.91
							184.7	-0.76	-7.78	-1.08e-03	0.0	1.33e-04	0.96
							197.0	-0.76	-7.83	-1.08e-03	0.0	0.0	0.0
2	22	14.60	0.0	5.41e-04	-0.83	0.0	0.0	-0.93	-7.00	1.61e-03	0.0	-3.17e-03	14.60
		0.0	-3.17e-03	-1.82e-06	0.0		12.3	-0.93	-7.05	1.61e-03	0.0	-2.98e-03	13.74
							24.6	-0.93	-7.10	1.61e-03	0.0	-2.78e-03	12.87
							36.9	-0.93	-7.16	1.61e-03	0.0	-2.58e-03	11.99
							49.3	-0.93	-7.21	1.61e-03	0.0	-2.38e-03	11.11
							61.6	-0.93	-7.26	1.61e-03	0.0	-2.18e-03	10.22
							73.9	-0.93	-7.31	1.61e-03	0.0	-1.98e-03	9.32
							86.2	-0.93	-7.36	1.61e-03	0.0	-1.79e-03	8.42
							98.5	-0.93	-7.41	1.61e-03	0.0	-1.59e-03	7.51
							110.8	-0.93	-7.47	1.61e-03	0.0	-1.39e-03	6.59
							123.1	-0.93	-7.52	1.61e-03	0.0	-1.19e-03	5.67
							135.4	-0.93	-7.57	1.61e-03	0.0	-9.92e-04	4.74
							147.8	-0.93	-7.62	1.61e-03	0.0	-7.94e-04	3.80
							160.1	-0.93	-7.67	1.61e-03	0.0	-5.95e-04	2.86
							172.4	-0.93	-7.72	1.61e-03	0.0	-3.97e-04	1.91
							184.7	-0.93	-7.78	1.61e-03	0.0	-1.98e-04	0.96
							197.0	-0.93	-7.83	1.61e-03	0.0	0.0	0.0
2	23	14.60	3.17e-03	5.41e-04	-0.83	0.0	0.0	0.93	-7.00	-1.61e-03	0.0	3.17e-03	14.60
		0.0	0.0	1.82e-06	0.0		12.3	0.93	-7.05	-1.61e-03	0.0	2.98e-03	13.74
							24.6	0.93	-7.10	-1.61e-03	0.0	2.78e-03	12.87
							36.9	0.93	-7.16	-1.61e-03	0.0	2.58e-03	11.99
							49.3	0.93	-7.21	-1.61e-03	0.0	2.38e-03	11.11
							61.6	0.93	-7.26	-1.61e-03	0.0	2.18e-03	10.22
							73.9	0.93	-7.31	-1.61e-03	0.0	1.98e-03	9.32
							86.2	0.93	-7.36	-1.61e-03	0.0	1.79e-03	8.42
							98.5	0.93	-7.41	-1.61e-03	0.0	1.59e-03	7.51
							110.8	0.93	-7.47	-1.61e-03	0.0	1.39e-03	6.59
							123.1	0.93	-7.52	-1.61e-03	0.0	1.19e-03	5.67
							135.4	0.93	-7.57	-1.61e-03	0.0	9.92e-04	4.74
							147.8	0.93	-7.62	-1.61e-03	0.0	7.94e-04	3.80
							160.1	0.93	-7.67	-1.61e-03	0.0	5.95e-04	2.86
							172.4	0.93	-7.72	-1.61e-03	0.0	3.97e-04	1.91
							184.7	0.93	-7.78	-1.61e-03	0.0	1.98e-04	0.96
							197.0	0.93	-7.83	-1.61e-03	0.0	0.0	0.0
2	38	14.60	0.0	5.41e-04	-0.83	0.0	0.0	-0.28	-7.00	4.72e-03	0.0	-9.30e-03	14.60

			0.0	-9.30e-03	-6.07e-06	0.0	12.3	-0.28	-7.05	4.72e-03	0.0	-8.72e-03	13.74
							24.6	-0.28	-7.10	4.72e-03	0.0	-8.14e-03	12.87
							36.9	-0.28	-7.16	4.72e-03	0.0	-7.55e-03	11.99
							49.3	-0.28	-7.21	4.72e-03	0.0	-6.97e-03	11.11
							61.6	-0.28	-7.26	4.72e-03	0.0	-6.39e-03	10.22
							73.9	-0.28	-7.31	4.72e-03	0.0	-5.81e-03	9.32
							86.2	-0.28	-7.36	4.72e-03	0.0	-5.23e-03	8.42
							98.5	-0.28	-7.41	4.72e-03	0.0	-4.65e-03	7.51
							110.8	-0.28	-7.47	4.72e-03	0.0	-4.07e-03	6.59
							123.1	-0.28	-7.52	4.72e-03	0.0	-3.49e-03	5.67
							135.4	-0.28	-7.57	4.72e-03	0.0	-2.91e-03	4.74
							147.8	-0.28	-7.62	4.72e-03	0.0	-2.32e-03	3.80
							160.1	-0.28	-7.67	4.72e-03	0.0	-1.74e-03	2.86
							172.4	-0.28	-7.72	4.72e-03	0.0	-1.16e-03	1.91
							184.7	-0.28	-7.78	4.72e-03	0.0	-5.81e-04	0.96
							197.0	-0.28	-7.83	4.72e-03	0.0	0.0	0.0
2	39	14.60	9.30e-03	5.41e-04	-0.83	0.0	0.0	0.28	-7.00	-4.72e-03	0.0	9.30e-03	14.60
		0.0	0.0	6.07e-06	0.0		12.3	0.28	-7.05	-4.72e-03	0.0	8.72e-03	13.74
							24.6	0.28	-7.10	-4.72e-03	0.0	8.14e-03	12.87
							36.9	0.28	-7.16	-4.72e-03	0.0	7.55e-03	11.99
							49.3	0.28	-7.21	-4.72e-03	0.0	6.97e-03	11.11
							61.6	0.28	-7.26	-4.72e-03	0.0	6.39e-03	10.22
							73.9	0.28	-7.31	-4.72e-03	0.0	5.81e-03	9.32
							86.2	0.28	-7.36	-4.72e-03	0.0	5.23e-03	8.42
							98.5	0.28	-7.41	-4.72e-03	0.0	4.65e-03	7.51
							110.8	0.28	-7.47	-4.72e-03	0.0	4.07e-03	6.59
							123.1	0.28	-7.52	-4.72e-03	0.0	3.49e-03	5.67
							135.4	0.28	-7.57	-4.72e-03	0.0	2.91e-03	4.74
							147.8	0.28	-7.62	-4.72e-03	0.0	2.32e-03	3.80
							160.1	0.28	-7.67	-4.72e-03	0.0	1.74e-03	2.86
							172.4	0.28	-7.72	-4.72e-03	0.0	1.16e-03	1.91
							184.7	0.28	-7.78	-4.72e-03	0.0	5.81e-04	0.96
							197.0	0.28	-7.83	-4.72e-03	0.0	0.0	0.0
2	41	14.60	1.17e-03	5.41e-04	-0.83	0.0	0.0	-0.42	-7.00	-5.96e-04	0.0	1.17e-03	14.60
		0.0	0.0	0.0	0.0		12.3	-0.42	-7.05	-5.96e-04	0.0	1.10e-03	13.74
							24.6	-0.42	-7.10	-5.96e-04	0.0	1.03e-03	12.87
							36.9	-0.42	-7.16	-5.96e-04	0.0	9.54e-04	11.99
							49.3	-0.42	-7.21	-5.96e-04	0.0	8.81e-04	11.11
							61.6	-0.42	-7.26	-5.96e-04	0.0	8.07e-04	10.22
							73.9	-0.42	-7.31	-5.96e-04	0.0	7.34e-04	9.32
							86.2	-0.42	-7.36	-5.96e-04	0.0	6.61e-04	8.42
							98.5	-0.42	-7.41	-5.96e-04	0.0	5.87e-04	7.51
							110.8	-0.42	-7.47	-5.96e-04	0.0	5.14e-04	6.59
							123.1	-0.42	-7.52	-5.96e-04	0.0	4.40e-04	5.67
							135.4	-0.42	-7.57	-5.96e-04	0.0	3.67e-04	4.74
							147.8	-0.42	-7.62	-5.96e-04	0.0	2.94e-04	3.80
							160.1	-0.42	-7.67	-5.96e-04	0.0	2.20e-04	2.86
							172.4	-0.42	-7.72	-5.96e-04	0.0	1.47e-04	1.91
							184.7	-0.42	-7.78	-5.96e-04	0.0	7.34e-05	0.96
							197.0	-0.42	-7.83	-5.96e-04	0.0	0.0	0.0
2	54	14.60	0.0	5.41e-04	-0.83	0.0	0.0	-0.51	-7.00	8.90e-04	0.0	-1.75e-03	14.60
		0.0	-1.75e-03	-1.01e-06	0.0		12.3	-0.51	-7.05	8.90e-04	0.0	-1.64e-03	13.74
							24.6	-0.51	-7.10	8.90e-04	0.0	-1.53e-03	12.87
							36.9	-0.51	-7.16	8.90e-04	0.0	-1.42e-03	11.99
							49.3	-0.51	-7.21	8.90e-04	0.0	-1.31e-03	11.11
							61.6	-0.51	-7.26	8.90e-04	0.0	-1.21e-03	10.22
							73.9	-0.51	-7.31	8.90e-04	0.0	-1.10e-03	9.32
							86.2	-0.51	-7.36	8.90e-04	0.0	-9.86e-04	8.42
							98.5	-0.51	-7.41	8.90e-04	0.0	-8.77e-04	7.51
							110.8	-0.51	-7.47	8.90e-04	0.0	-7.67e-04	6.59
							123.1	-0.51	-7.52	8.90e-04	0.0	-6.57e-04	5.67
							135.4	-0.51	-7.57	8.90e-04	0.0	-5.48e-04	4.74
							147.8	-0.51	-7.62	8.90e-04	0.0	-4.38e-04	3.80
							160.1	-0.51	-7.67	8.90e-04	0.0	-3.29e-04	2.86
							172.4	-0.51	-7.72	8.90e-04	0.0	-2.19e-04	1.91
							184.7	-0.51	-7.78	8.90e-04	0.0	-1.10e-04	0.96
							197.0	-0.51	-7.83	8.90e-04	0.0	0.0	0.0
2	55	14.60	1.75e-03	5.41e-04	-0.83	0.0	0.0	0.51	-7.00	-8.90e-04	0.0	1.75e-03	14.60
		0.0	0.0	1.01e-06	0.0		12.3	0.51	-7.05	-8.90e-04	0.0	1.64e-03	13.74
							24.6	0.51	-7.10	-8.90e-04	0.0	1.53e-03	12.87
							36.9	0.51	-7.16	-8.90e-04	0.0	1.42e-03	11.99
							49.3	0.51	-7.21	-8.90e-04	0.0	1.31e-03	11.11

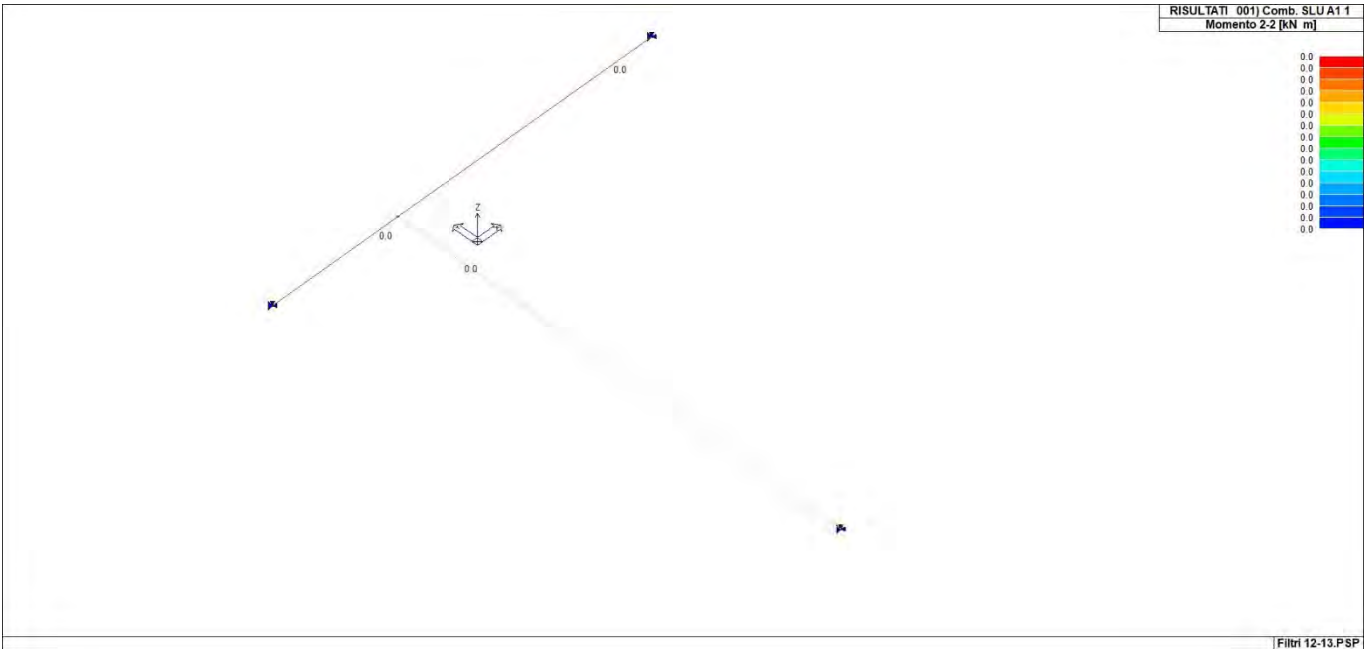
							61.6	0.51	-7.26	-8.90e-04	0.0	1.21e-03	10.22
							73.9	0.51	-7.31	-8.90e-04	0.0	1.10e-03	9.32
							86.2	0.51	-7.36	-8.90e-04	0.0	9.86e-04	8.42
							98.5	0.51	-7.41	-8.90e-04	0.0	8.77e-04	7.51
							110.8	0.51	-7.47	-8.90e-04	0.0	7.67e-04	6.59
							123.1	0.51	-7.52	-8.90e-04	0.0	6.57e-04	5.67
							135.4	0.51	-7.57	-8.90e-04	0.0	5.48e-04	4.74
							147.8	0.51	-7.62	-8.90e-04	0.0	4.38e-04	3.80
							160.1	0.51	-7.67	-8.90e-04	0.0	3.29e-04	2.86
							172.4	0.51	-7.72	-8.90e-04	0.0	2.19e-04	1.91
							184.7	0.51	-7.78	-8.90e-04	0.0	1.10e-04	0.96
							197.0	0.51	-7.83	-8.90e-04	0.0	0.0	0.0
2	70	14.60	0.0	5.41e-04	-0.83	0.0	0.0	-0.15	-7.00	2.61e-03	0.0	-5.14e-03	14.60
		0.0	-5.14e-03	-3.36e-06	0.0	0.0	12.3	-0.15	-7.05	2.61e-03	0.0	-4.82e-03	13.74
							24.6	-0.15	-7.10	2.61e-03	0.0	-4.50e-03	12.87
							36.9	-0.15	-7.16	2.61e-03	0.0	-4.17e-03	11.99
							49.3	-0.15	-7.21	2.61e-03	0.0	-3.85e-03	11.11
							61.6	-0.15	-7.26	2.61e-03	0.0	-3.53e-03	10.22
							73.9	-0.15	-7.31	2.61e-03	0.0	-3.21e-03	9.32
							86.2	-0.15	-7.36	2.61e-03	0.0	-2.89e-03	8.42
							98.5	-0.15	-7.41	2.61e-03	0.0	-2.57e-03	7.51
							110.8	-0.15	-7.47	2.61e-03	0.0	-2.25e-03	6.59
							123.1	-0.15	-7.52	2.61e-03	0.0	-1.93e-03	5.67
							135.4	-0.15	-7.57	2.61e-03	0.0	-1.61e-03	4.74
							147.8	-0.15	-7.62	2.61e-03	0.0	-1.28e-03	3.80
							160.1	-0.15	-7.67	2.61e-03	0.0	-9.63e-04	2.86
							172.4	-0.15	-7.72	2.61e-03	0.0	-6.42e-04	1.91
							184.7	-0.15	-7.78	2.61e-03	0.0	-3.21e-04	0.96
							197.0	-0.15	-7.83	2.61e-03	0.0	0.0	0.0
2	71	14.60	5.14e-03	5.41e-04	-0.83	0.0	0.0	0.15	-7.00	-2.61e-03	0.0	5.14e-03	14.60
		0.0	0.0	3.36e-06	0.0	0.0	12.3	0.15	-7.05	-2.61e-03	0.0	4.82e-03	13.74
							24.6	0.15	-7.10	-2.61e-03	0.0	4.50e-03	12.87
							36.9	0.15	-7.16	-2.61e-03	0.0	4.17e-03	11.99
							49.3	0.15	-7.21	-2.61e-03	0.0	3.85e-03	11.11
							61.6	0.15	-7.26	-2.61e-03	0.0	3.53e-03	10.22
							73.9	0.15	-7.31	-2.61e-03	0.0	3.21e-03	9.32
							86.2	0.15	-7.36	-2.61e-03	0.0	2.89e-03	8.42
							98.5	0.15	-7.41	-2.61e-03	0.0	2.57e-03	7.51
							110.8	0.15	-7.47	-2.61e-03	0.0	2.25e-03	6.59
							123.1	0.15	-7.52	-2.61e-03	0.0	1.93e-03	5.67
							135.4	0.15	-7.57	-2.61e-03	0.0	1.61e-03	4.74
							147.8	0.15	-7.62	-2.61e-03	0.0	1.28e-03	3.80
							160.1	0.15	-7.67	-2.61e-03	0.0	9.63e-04	2.86
							172.4	0.15	-7.72	-2.61e-03	0.0	6.42e-04	1.91
							184.7	0.15	-7.78	-2.61e-03	0.0	3.21e-04	0.96
							197.0	0.15	-7.83	-2.61e-03	0.0	0.0	0.0
2	73	9.20	0.0	3.43e-04	-0.83	0.0	0.0	0.0	-4.25	0.0	0.0	0.0	9.20
		0.0	0.0	0.0	0.0	0.0	12.3	0.0	-4.31	0.0	0.0	0.0	8.67
							24.6	0.0	-4.36	0.0	0.0	0.0	8.13
							36.9	0.0	-4.41	0.0	0.0	0.0	7.60
							49.3	0.0	-4.46	0.0	0.0	0.0	7.05
							61.6	0.0	-4.51	0.0	0.0	0.0	6.50
							73.9	0.0	-4.56	0.0	0.0	0.0	5.94
							86.2	0.0	-4.62	0.0	0.0	0.0	5.37
							98.5	0.0	-4.67	0.0	0.0	0.0	4.80
							110.8	0.0	-4.72	0.0	0.0	0.0	4.22
							123.1	0.0	-4.77	0.0	0.0	0.0	3.64
							135.4	0.0	-4.82	0.0	0.0	0.0	3.05
							147.8	0.0	-4.87	0.0	0.0	0.0	2.45
							160.1	0.0	-4.93	0.0	0.0	0.0	1.85
							172.4	0.0	-4.98	0.0	0.0	0.0	1.24
							184.7	0.0	-5.03	0.0	0.0	0.0	0.62
							197.0	0.0	-5.08	0.0	0.0	0.0	0.0
2	75	14.60	0.0	5.41e-04	-0.83	0.0	0.0	0.0	-7.00	0.0	0.0	0.0	14.60
		0.0	0.0	0.0	0.0	0.0	12.3	0.0	-7.05	0.0	0.0	0.0	13.74
							24.6	0.0	-7.10	0.0	0.0	0.0	12.87
							36.9	0.0	-7.16	0.0	0.0	0.0	11.99
							49.3	0.0	-7.21	0.0	0.0	0.0	11.11
							61.6	0.0	-7.26	0.0	0.0	0.0	10.22
							73.9	0.0	-7.31	0.0	0.0	0.0	9.32
							86.2	0.0	-7.36	0.0	0.0	0.0	8.42
							98.5	0.0	-7.41	0.0	0.0	0.0	7.51

						110.8	0.0	-7.47	0.0	0.0	0.0	6.59
						123.1	0.0	-7.52	0.0	0.0	0.0	5.67
						135.4	0.0	-7.57	0.0	0.0	0.0	4.74
						147.8	0.0	-7.62	0.0	0.0	0.0	3.80
						160.1	0.0	-7.67	0.0	0.0	0.0	2.86
						172.4	0.0	-7.72	0.0	0.0	0.0	1.91
						184.7	0.0	-7.78	0.0	0.0	0.0	0.96
						197.0	0.0	-7.83	0.0	0.0	0.0	0.0
3	1	11.95	0.0	-4.46e-04	-0.53	0.0	0.0	12.46	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	6.1	0.0	12.43	0.0	0.0	0.0	0.76
						12.3	0.0	12.40	0.0	0.0	0.0	1.52
						18.4	0.0	12.36	0.0	0.0	0.0	2.28
						24.5	0.0	12.33	0.0	0.0	0.0	3.04
						30.6	0.0	12.30	0.0	0.0	0.0	3.79
						36.8	0.0	12.26	0.0	0.0	0.0	4.54
						42.9	0.0	12.23	0.0	0.0	0.0	5.29
						49.0	0.0	12.20	0.0	0.0	0.0	6.04
						55.1	0.0	12.16	0.0	0.0	0.0	6.79
						61.3	0.0	12.13	0.0	0.0	0.0	7.53
						67.4	0.0	12.10	0.0	0.0	0.0	8.27
						73.5	0.0	12.06	0.0	0.0	0.0	9.01
						79.6	0.0	12.03	0.0	0.0	0.0	9.75
						85.8	0.0	12.00	0.0	0.0	0.0	10.49
						91.9	0.0	11.96	0.0	0.0	0.0	11.22
						98.0	0.0	11.93	0.0	0.0	0.0	11.95
3	3	22.10	0.0	-8.18e-04	-0.53	0.0	0.0	22.82	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	6.1	0.0	22.78	0.0	0.0	0.0	1.40
						12.3	0.0	22.75	0.0	0.0	0.0	2.79
						18.4	0.0	22.72	0.0	0.0	0.0	4.18
						24.5	0.0	22.68	0.0	0.0	0.0	5.57
						30.6	0.0	22.65	0.0	0.0	0.0	6.96
						36.8	0.0	22.61	0.0	0.0	0.0	8.35
						42.9	0.0	22.58	0.0	0.0	0.0	9.73
						49.0	0.0	22.55	0.0	0.0	0.0	11.11
						55.1	0.0	22.51	0.0	0.0	0.0	12.49
						61.3	0.0	22.48	0.0	0.0	0.0	13.87
						67.4	0.0	22.45	0.0	0.0	0.0	15.25
						73.5	0.0	22.41	0.0	0.0	0.0	16.62
						79.6	0.0	22.38	0.0	0.0	0.0	17.99
						85.8	0.0	22.35	0.0	0.0	0.0	19.36
						91.9	0.0	22.31	0.0	0.0	0.0	20.73
						98.0	0.0	22.28	0.0	0.0	0.0	22.10
3	9	14.60	5.44e-03	-5.41e-04	-0.41	0.0	1.53	15.11	5.55e-03	0.0	0.0	0.0
		0.0	0.0	-1.63e-06	0.0	6.1	1.53	15.08	5.55e-03	0.0	3.40e-04	0.92
						12.3	1.53	15.06	5.55e-03	0.0	6.80e-04	1.85
						18.4	1.53	15.03	5.55e-03	0.0	1.02e-03	2.77
						24.5	1.53	15.01	5.55e-03	0.0	1.36e-03	3.69
						30.6	1.53	14.98	5.55e-03	0.0	1.70e-03	4.61
						36.8	1.53	14.95	5.55e-03	0.0	2.04e-03	5.52
						42.9	1.53	14.93	5.55e-03	0.0	2.38e-03	6.44
						49.0	1.53	14.90	5.55e-03	0.0	2.72e-03	7.35
						55.1	1.53	14.88	5.55e-03	0.0	3.06e-03	8.26
						61.3	1.53	14.85	5.55e-03	0.0	3.40e-03	9.18
						67.4	1.53	14.83	5.55e-03	0.0	3.74e-03	10.08
						73.5	1.53	14.80	5.55e-03	0.0	4.08e-03	10.99
						79.6	1.53	14.77	5.55e-03	0.0	4.42e-03	11.90
						85.8	1.53	14.75	5.55e-03	0.0	4.76e-03	12.80
						91.9	1.53	14.72	5.55e-03	0.0	5.10e-03	13.70
						98.0	1.53	14.70	5.55e-03	0.0	5.44e-03	14.60
3	22	14.60	0.0	-5.41e-04	-0.41	0.0	1.88	15.11	-4.51e-03	0.0	0.0	0.0
		0.0	-4.42e-03	1.82e-06	0.0	6.1	1.88	15.08	-4.51e-03	0.0	-2.77e-04	0.92
						12.3	1.88	15.06	-4.51e-03	0.0	-5.53e-04	1.85
						18.4	1.88	15.03	-4.51e-03	0.0	-8.30e-04	2.77
						24.5	1.88	15.01	-4.51e-03	0.0	-1.11e-03	3.69
						30.6	1.88	14.98	-4.51e-03	0.0	-1.38e-03	4.61
						36.8	1.88	14.95	-4.51e-03	0.0	-1.66e-03	5.52
						42.9	1.88	14.93	-4.51e-03	0.0	-1.94e-03	6.44
						49.0	1.88	14.90	-4.51e-03	0.0	-2.21e-03	7.35
						55.1	1.88	14.88	-4.51e-03	0.0	-2.49e-03	8.26
						61.3	1.88	14.85	-4.51e-03	0.0	-2.77e-03	9.18
						67.4	1.88	14.83	-4.51e-03	0.0	-3.04e-03	10.08
						73.5	1.88	14.80	-4.51e-03	0.0	-3.32e-03	10.99

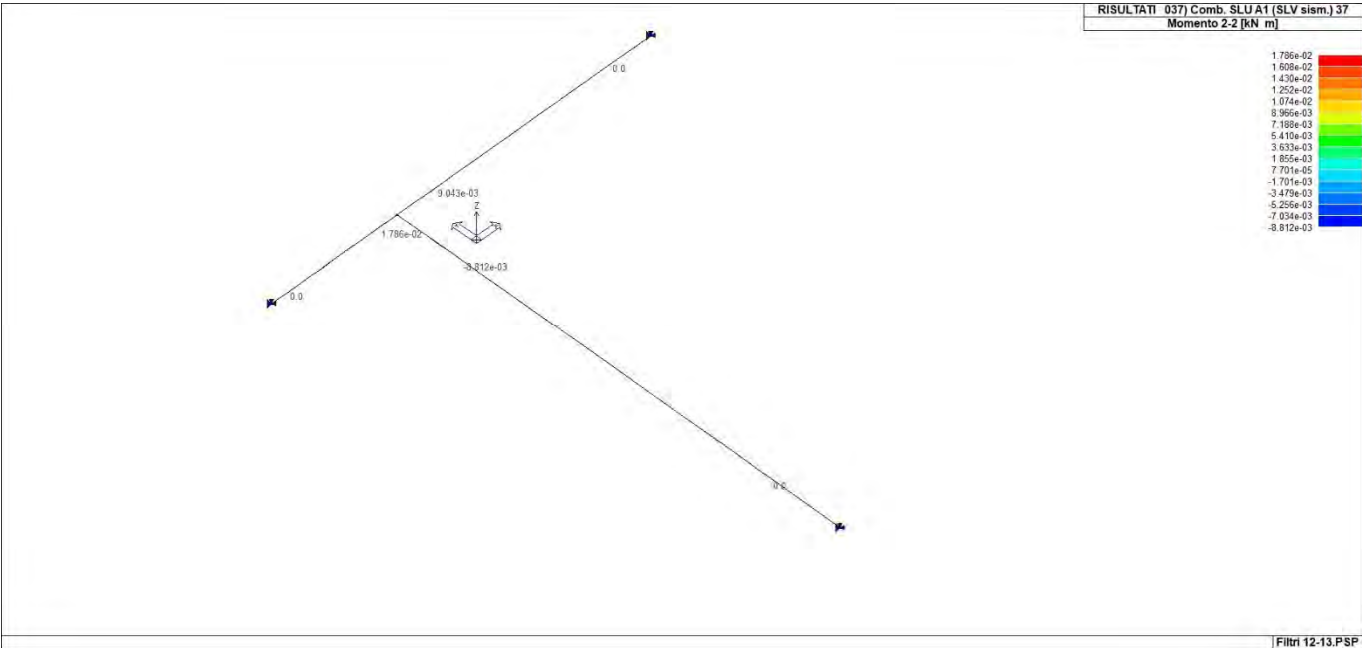
						79.6	1.88	14.77	-4.51e-03	0.0	-3.59e-03	11.90
						85.8	1.88	14.75	-4.51e-03	0.0	-3.87e-03	12.80
						91.9	1.88	14.72	-4.51e-03	0.0	-4.15e-03	13.70
						98.0	1.88	14.70	-4.51e-03	0.0	-4.42e-03	14.60
3	23	14.60	4.42e-03	-5.41e-04	-0.41	0.0	-1.88	15.11	4.51e-03	0.0	0.0	0.0
		0.0	0.0	-1.82e-06	0.0	6.1	-1.88	15.08	4.51e-03	0.0	2.77e-04	0.92
						12.3	-1.88	15.06	4.51e-03	0.0	5.53e-04	1.85
						18.4	-1.88	15.03	4.51e-03	0.0	8.30e-04	2.77
						24.5	-1.88	15.01	4.51e-03	0.0	1.11e-03	3.69
						30.6	-1.88	14.98	4.51e-03	0.0	1.38e-03	4.61
						36.8	-1.88	14.95	4.51e-03	0.0	1.66e-03	5.52
						42.9	-1.88	14.93	4.51e-03	0.0	1.94e-03	6.44
						49.0	-1.88	14.90	4.51e-03	0.0	2.21e-03	7.35
						55.1	-1.88	14.88	4.51e-03	0.0	2.49e-03	8.26
						61.3	-1.88	14.85	4.51e-03	0.0	2.77e-03	9.18
						67.4	-1.88	14.83	4.51e-03	0.0	3.04e-03	10.08
						73.5	-1.88	14.80	4.51e-03	0.0	3.32e-03	10.99
						79.6	-1.88	14.77	4.51e-03	0.0	3.59e-03	11.90
						85.8	-1.88	14.75	4.51e-03	0.0	3.87e-03	12.80
						91.9	-1.88	14.72	4.51e-03	0.0	4.15e-03	13.70
						98.0	-1.88	14.70	4.51e-03	0.0	4.42e-03	14.60
3	37	14.60	0.02	-5.41e-04	-0.41	0.0	0.56	15.11	0.02	0.0	0.0	0.0
		0.0	0.0	-6.07e-06	0.0	6.1	0.56	15.08	0.02	0.0	1.12e-03	0.92
						12.3	0.56	15.06	0.02	0.0	2.23e-03	1.85
						18.4	0.56	15.03	0.02	0.0	3.35e-03	2.77
						24.5	0.56	15.01	0.02	0.0	4.46e-03	3.69
						30.6	0.56	14.98	0.02	0.0	5.58e-03	4.61
						36.8	0.56	14.95	0.02	0.0	6.70e-03	5.52
						42.9	0.56	14.93	0.02	0.0	7.81e-03	6.44
						49.0	0.56	14.90	0.02	0.0	8.93e-03	7.35
						55.1	0.56	14.88	0.02	0.0	0.01	8.26
						61.3	0.56	14.85	0.02	0.0	0.01	9.18
						67.4	0.56	14.83	0.02	0.0	0.01	10.08
						73.5	0.56	14.80	0.02	0.0	0.01	10.99
						79.6	0.56	14.77	0.02	0.0	0.01	11.90
						85.8	0.56	14.75	0.02	0.0	0.02	12.80
						91.9	0.56	14.72	0.02	0.0	0.02	13.70
						98.0	0.56	14.70	0.02	0.0	0.02	14.60
3	40	14.60	0.0	-5.41e-04	-0.41	0.0	-0.56	15.11	-0.02	0.0	0.0	0.0
		0.0	-0.02	6.07e-06	0.0	6.1	-0.56	15.08	-0.02	0.0	-1.12e-03	0.92
						12.3	-0.56	15.06	-0.02	0.0	-2.23e-03	1.85
						18.4	-0.56	15.03	-0.02	0.0	-3.35e-03	2.77
						24.5	-0.56	15.01	-0.02	0.0	-4.46e-03	3.69
						30.6	-0.56	14.98	-0.02	0.0	-5.58e-03	4.61
						36.8	-0.56	14.95	-0.02	0.0	-6.70e-03	5.52
						42.9	-0.56	14.93	-0.02	0.0	-7.81e-03	6.44
						49.0	-0.56	14.90	-0.02	0.0	-8.93e-03	7.35
						55.1	-0.56	14.88	-0.02	0.0	-0.01	8.26
						61.3	-0.56	14.85	-0.02	0.0	-0.01	9.18
						67.4	-0.56	14.83	-0.02	0.0	-0.01	10.08
						73.5	-0.56	14.80	-0.02	0.0	-0.01	10.99
						79.6	-0.56	14.77	-0.02	0.0	-0.01	11.90
						85.8	-0.56	14.75	-0.02	0.0	-0.02	12.80
						91.9	-0.56	14.72	-0.02	0.0	-0.02	13.70
						98.0	-0.56	14.70	-0.02	0.0	-0.02	14.60
3	41	14.60	3.00e-03	-5.41e-04	-0.41	0.0	0.84	15.11	3.06e-03	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	6.1	0.84	15.08	3.06e-03	0.0	1.88e-04	0.92
						12.3	0.84	15.06	3.06e-03	0.0	3.75e-04	1.85
						18.4	0.84	15.03	3.06e-03	0.0	5.63e-04	2.77
						24.5	0.84	15.01	3.06e-03	0.0	7.51e-04	3.69
						30.6	0.84	14.98	3.06e-03	0.0	9.38e-04	4.61
						36.8	0.84	14.95	3.06e-03	0.0	1.13e-03	5.52
						42.9	0.84	14.93	3.06e-03	0.0	1.31e-03	6.44
						49.0	0.84	14.90	3.06e-03	0.0	1.50e-03	7.35
						55.1	0.84	14.88	3.06e-03	0.0	1.69e-03	8.26
						61.3	0.84	14.85	3.06e-03	0.0	1.88e-03	9.18
						67.4	0.84	14.83	3.06e-03	0.0	2.06e-03	10.08
						73.5	0.84	14.80	3.06e-03	0.0	2.25e-03	10.99
						79.6	0.84	14.77	3.06e-03	0.0	2.44e-03	11.90
						85.8	0.84	14.75	3.06e-03	0.0	2.63e-03	12.80
						91.9	0.84	14.72	3.06e-03	0.0	2.82e-03	13.70
						98.0	0.84	14.70	3.06e-03	0.0	3.00e-03	14.60

3	54	14.60	0.0	-5.41e-04	-0.41	0.0	1.03	15.11	-2.50e-03	0.0	0.0	0.0
		0.0	-2.45e-03	1.01e-06	0.0	6.1	1.03	15.08	-2.50e-03	0.0	-1.53e-04	0.92
						12.3	1.03	15.06	-2.50e-03	0.0	-3.06e-04	1.85
						18.4	1.03	15.03	-2.50e-03	0.0	-4.59e-04	2.77
						24.5	1.03	15.01	-2.50e-03	0.0	-6.12e-04	3.69
						30.6	1.03	14.98	-2.50e-03	0.0	-7.65e-04	4.61
						36.8	1.03	14.95	-2.50e-03	0.0	-9.18e-04	5.52
						42.9	1.03	14.93	-2.50e-03	0.0	-1.07e-03	6.44
						49.0	1.03	14.90	-2.50e-03	0.0	-1.22e-03	7.35
						55.1	1.03	14.88	-2.50e-03	0.0	-1.38e-03	8.26
						61.3	1.03	14.85	-2.50e-03	0.0	-1.53e-03	9.18
						67.4	1.03	14.83	-2.50e-03	0.0	-1.68e-03	10.08
						73.5	1.03	14.80	-2.50e-03	0.0	-1.84e-03	10.99
						79.6	1.03	14.77	-2.50e-03	0.0	-1.99e-03	11.90
						85.8	1.03	14.75	-2.50e-03	0.0	-2.14e-03	12.80
						91.9	1.03	14.72	-2.50e-03	0.0	-2.29e-03	13.70
						98.0	1.03	14.70	-2.50e-03	0.0	-2.45e-03	14.60
3	55	14.60	2.45e-03	-5.41e-04	-0.41	0.0	-1.03	15.11	2.50e-03	0.0	0.0	0.0
		0.0	0.0	-1.01e-06	0.0	6.1	-1.03	15.08	2.50e-03	0.0	1.53e-04	0.92
						12.3	-1.03	15.06	2.50e-03	0.0	3.06e-04	1.85
						18.4	-1.03	15.03	2.50e-03	0.0	4.59e-04	2.77
						24.5	-1.03	15.01	2.50e-03	0.0	6.12e-04	3.69
						30.6	-1.03	14.98	2.50e-03	0.0	7.65e-04	4.61
						36.8	-1.03	14.95	2.50e-03	0.0	9.18e-04	5.52
						42.9	-1.03	14.93	2.50e-03	0.0	1.07e-03	6.44
						49.0	-1.03	14.90	2.50e-03	0.0	1.22e-03	7.35
						55.1	-1.03	14.88	2.50e-03	0.0	1.38e-03	8.26
						61.3	-1.03	14.85	2.50e-03	0.0	1.53e-03	9.18
						67.4	-1.03	14.83	2.50e-03	0.0	1.68e-03	10.08
						73.5	-1.03	14.80	2.50e-03	0.0	1.84e-03	10.99
						79.6	-1.03	14.77	2.50e-03	0.0	1.99e-03	11.90
						85.8	-1.03	14.75	2.50e-03	0.0	2.14e-03	12.80
						91.9	-1.03	14.72	2.50e-03	0.0	2.29e-03	13.70
						98.0	-1.03	14.70	2.50e-03	0.0	2.45e-03	14.60
3	69	14.60	9.87e-03	-5.41e-04	-0.41	0.0	0.31	15.11	0.01	0.0	0.0	0.0
		0.0	0.0	-3.36e-06	0.0	6.1	0.31	15.08	0.01	0.0	6.17e-04	0.92
						12.3	0.31	15.06	0.01	0.0	1.23e-03	1.85
						18.4	0.31	15.03	0.01	0.0	1.85e-03	2.77
						24.5	0.31	15.01	0.01	0.0	2.47e-03	3.69
						30.6	0.31	14.98	0.01	0.0	3.08e-03	4.61
						36.8	0.31	14.95	0.01	0.0	3.70e-03	5.52
						42.9	0.31	14.93	0.01	0.0	4.32e-03	6.44
						49.0	0.31	14.90	0.01	0.0	4.93e-03	7.35
						55.1	0.31	14.88	0.01	0.0	5.55e-03	8.26
						61.3	0.31	14.85	0.01	0.0	6.17e-03	9.18
						67.4	0.31	14.83	0.01	0.0	6.78e-03	10.08
						73.5	0.31	14.80	0.01	0.0	7.40e-03	10.99
						79.6	0.31	14.77	0.01	0.0	8.02e-03	11.90
						85.8	0.31	14.75	0.01	0.0	8.63e-03	12.80
						91.9	0.31	14.72	0.01	0.0	9.25e-03	13.70
						98.0	0.31	14.70	0.01	0.0	9.87e-03	14.60
3	72	14.60	0.0	-5.41e-04	-0.41	0.0	-0.31	15.11	-0.01	0.0	0.0	0.0
		0.0	-9.87e-03	3.36e-06	0.0	6.1	-0.31	15.08	-0.01	0.0	-6.17e-04	0.92
						12.3	-0.31	15.06	-0.01	0.0	-1.23e-03	1.85
						18.4	-0.31	15.03	-0.01	0.0	-1.85e-03	2.77
						24.5	-0.31	15.01	-0.01	0.0	-2.47e-03	3.69
						30.6	-0.31	14.98	-0.01	0.0	-3.08e-03	4.61
						36.8	-0.31	14.95	-0.01	0.0	-3.70e-03	5.52
						42.9	-0.31	14.93	-0.01	0.0	-4.32e-03	6.44
						49.0	-0.31	14.90	-0.01	0.0	-4.93e-03	7.35
						55.1	-0.31	14.88	-0.01	0.0	-5.55e-03	8.26
						61.3	-0.31	14.85	-0.01	0.0	-6.17e-03	9.18
						67.4	-0.31	14.83	-0.01	0.0	-6.78e-03	10.08
						73.5	-0.31	14.80	-0.01	0.0	-7.40e-03	10.99
						79.6	-0.31	14.77	-0.01	0.0	-8.02e-03	11.90
						85.8	-0.31	14.75	-0.01	0.0	-8.63e-03	12.80
						91.9	-0.31	14.72	-0.01	0.0	-9.25e-03	13.70
						98.0	-0.31	14.70	-0.01	0.0	-9.87e-03	14.60
3	73	9.20	0.0	-3.43e-04	-0.41	0.0	0.0	9.59	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	6.1	0.0	9.56	0.0	0.0	0.0	0.59
						12.3	0.0	9.54	0.0	0.0	0.0	1.17
						18.4	0.0	9.51	0.0	0.0	0.0	1.75

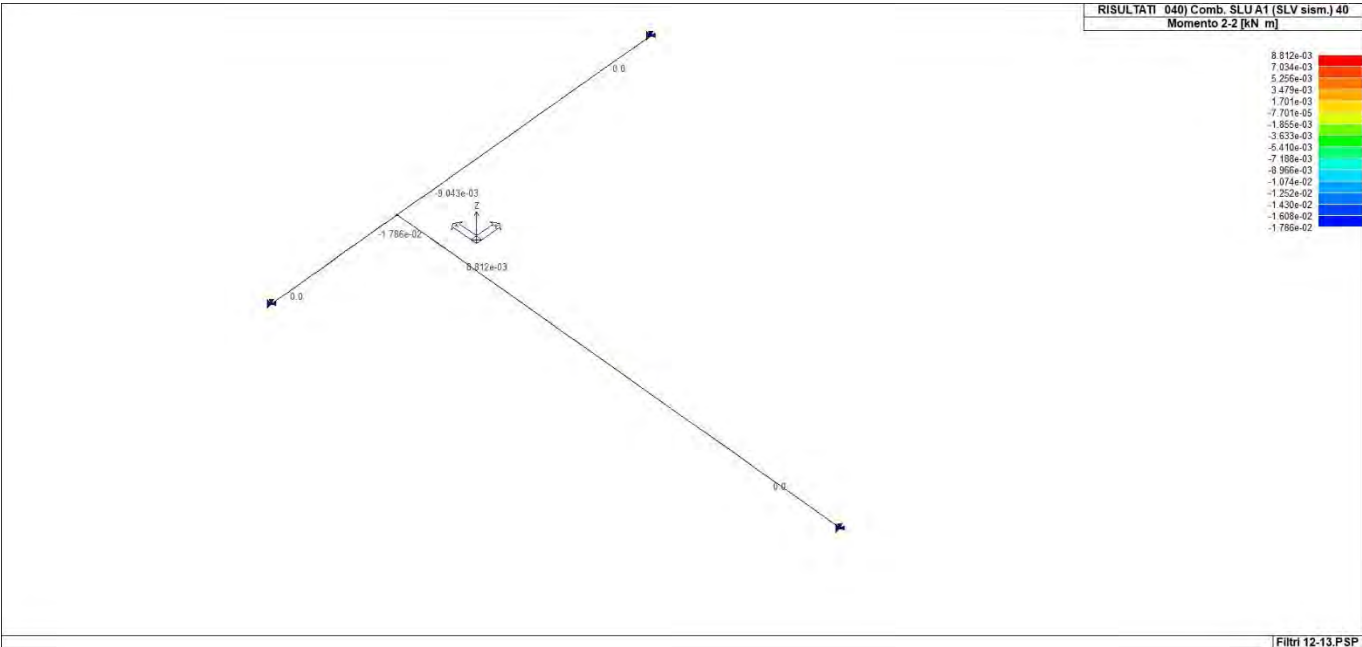
						24.5	0.0	9.49	0.0	0.0	0.0	2.34
						30.6	0.0	9.46	0.0	0.0	0.0	2.92
						36.8	0.0	9.43	0.0	0.0	0.0	3.50
						42.9	0.0	9.41	0.0	0.0	0.0	4.07
						49.0	0.0	9.38	0.0	0.0	0.0	4.65
						55.1	0.0	9.36	0.0	0.0	0.0	5.22
						61.3	0.0	9.33	0.0	0.0	0.0	5.79
						67.4	0.0	9.31	0.0	0.0	0.0	6.36
						73.5	0.0	9.28	0.0	0.0	0.0	6.93
						79.6	0.0	9.25	0.0	0.0	0.0	7.50
						85.8	0.0	9.23	0.0	0.0	0.0	8.07
						91.9	0.0	9.20	0.0	0.0	0.0	8.63
						98.0	0.0	9.18	0.0	0.0	0.0	9.20
3	75	14.60	0.0	-5.41e-04	-0.41	0.0	0.0	15.11	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	6.1	0.0	15.08	0.0	0.0	0.0	0.92
						12.3	0.0	15.06	0.0	0.0	0.0	1.85
						18.4	0.0	15.03	0.0	0.0	0.0	2.77
						24.5	0.0	15.01	0.0	0.0	0.0	3.69
						30.6	0.0	14.98	0.0	0.0	0.0	4.61
						36.8	0.0	14.95	0.0	0.0	0.0	5.52
						42.9	0.0	14.93	0.0	0.0	0.0	6.44
						49.0	0.0	14.90	0.0	0.0	0.0	7.35
						55.1	0.0	14.88	0.0	0.0	0.0	8.26
						61.3	0.0	14.85	0.0	0.0	0.0	9.18
						67.4	0.0	14.83	0.0	0.0	0.0	10.08
						73.5	0.0	14.80	0.0	0.0	0.0	10.99
						79.6	0.0	14.77	0.0	0.0	0.0	11.90
						85.8	0.0	14.75	0.0	0.0	0.0	12.80
						91.9	0.0	14.72	0.0	0.0	0.0	13.70
						98.0	0.0	14.70	0.0	0.0	0.0	14.60
Trave	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3		N	V 2	V 3	T			
	0.0	-0.02	-2.56e-03	-65.92		-2.84	-32.96	-0.02	0.0			
	28.38	0.02	8.18e-04	0.0		2.84	32.96	0.02	0.0			



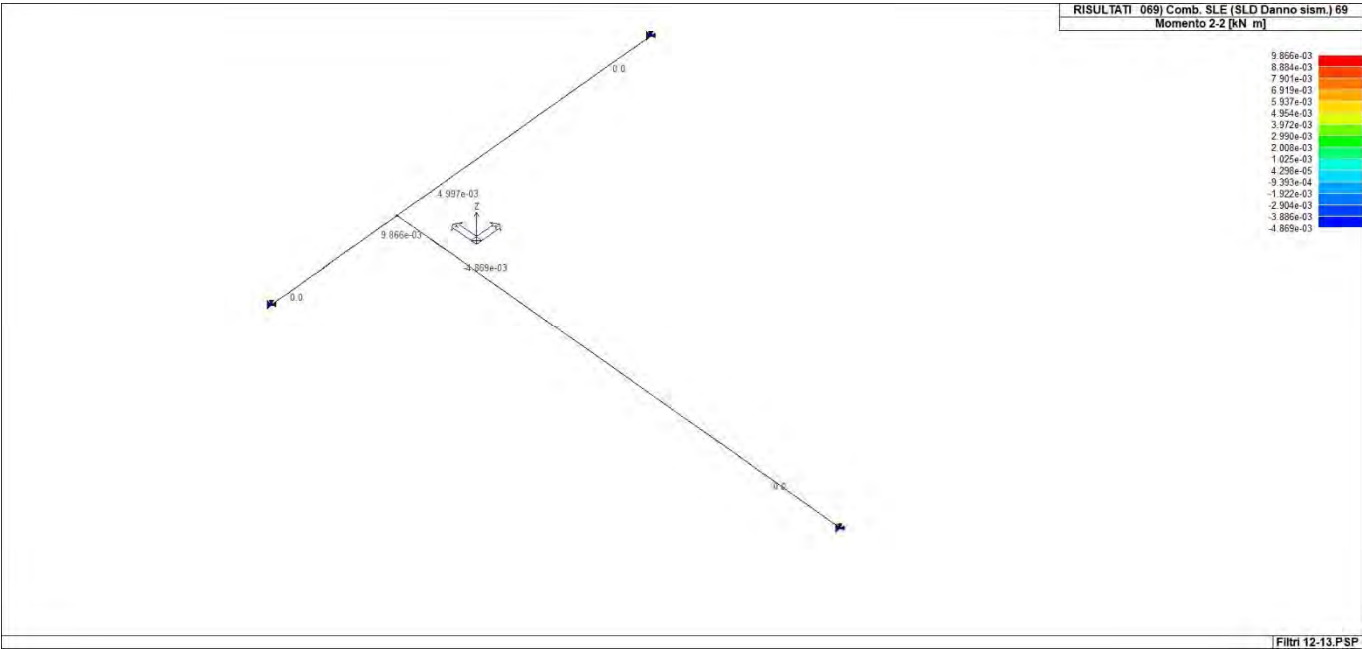
43_RIS_M2_001_Comb. SLU A1 1



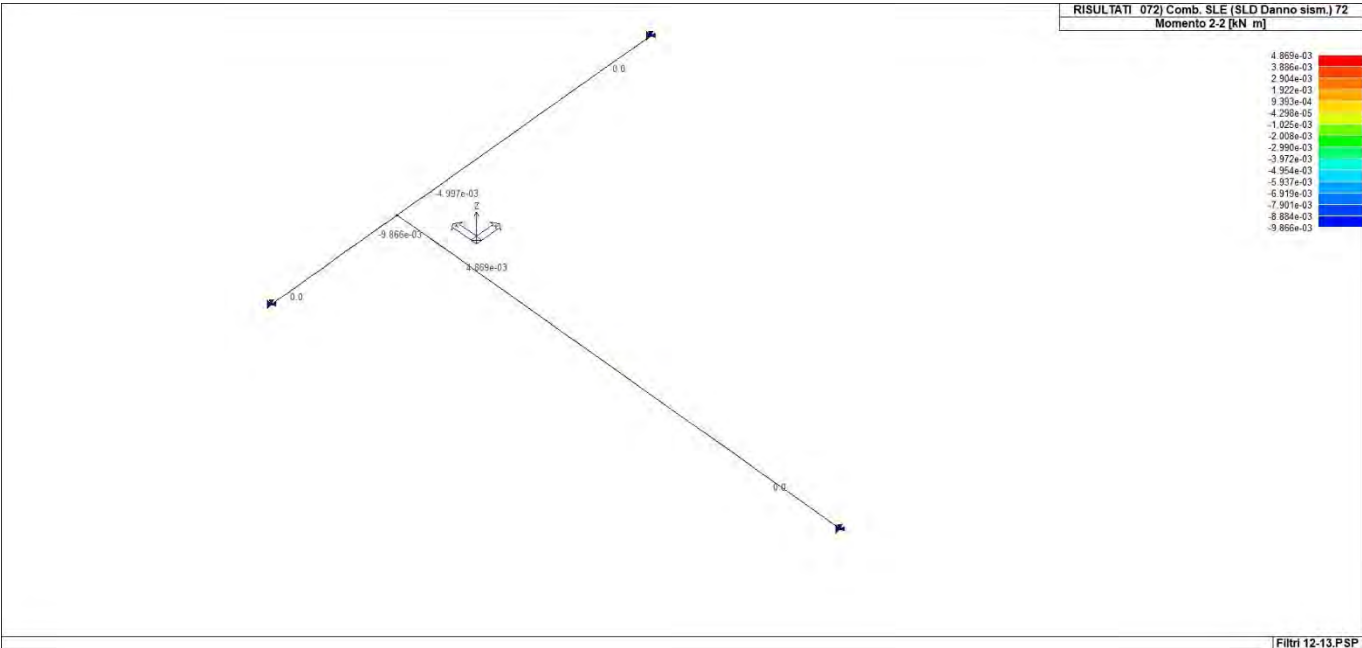
43_RIS_M2_037_Comb. SLU A1 (SLV sism.) 37



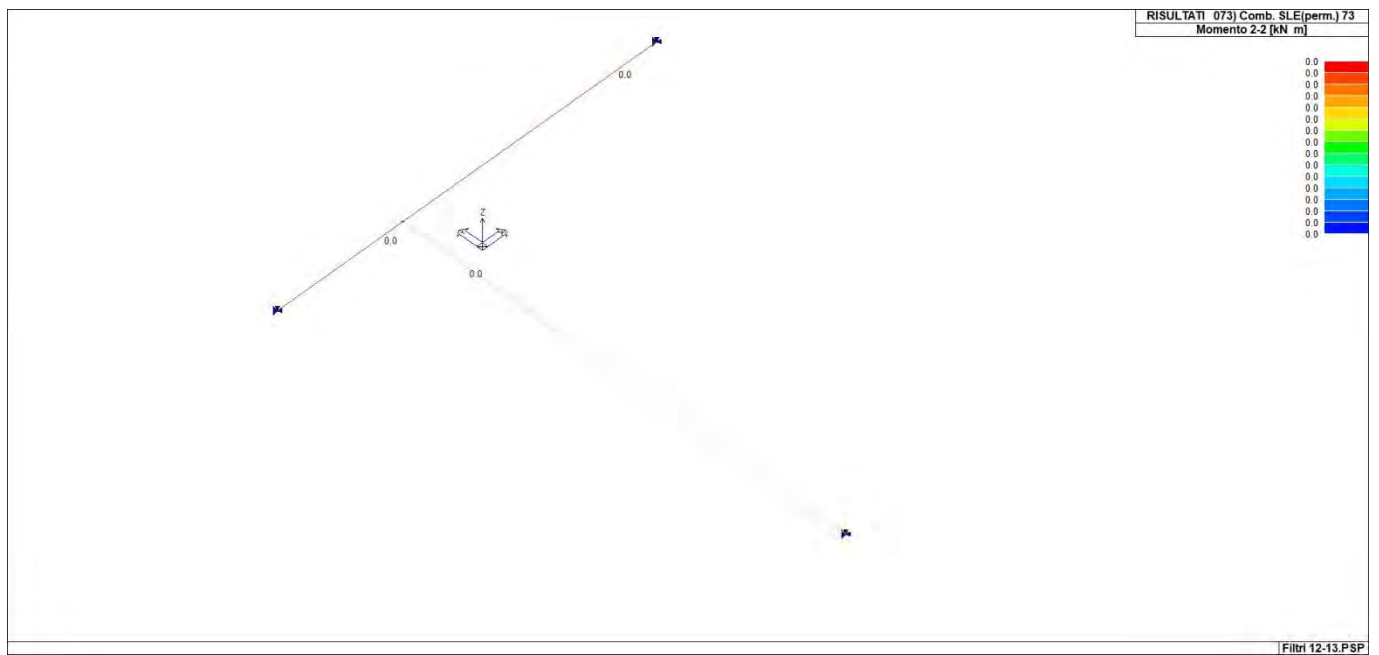
43_RIS_M2_040_Comb. SLU A1 (SLV sism.) 40



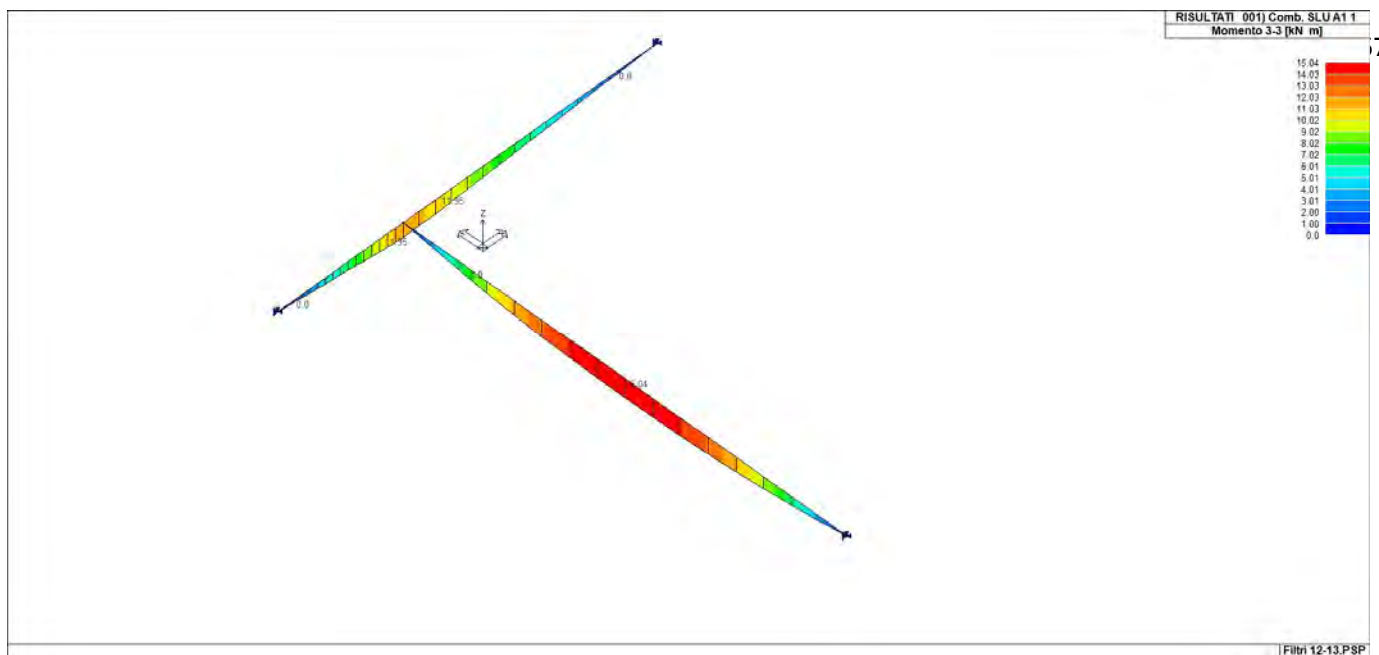
43_RIS_M2_069_Comb. SLE (SLD Danno sism.) 69



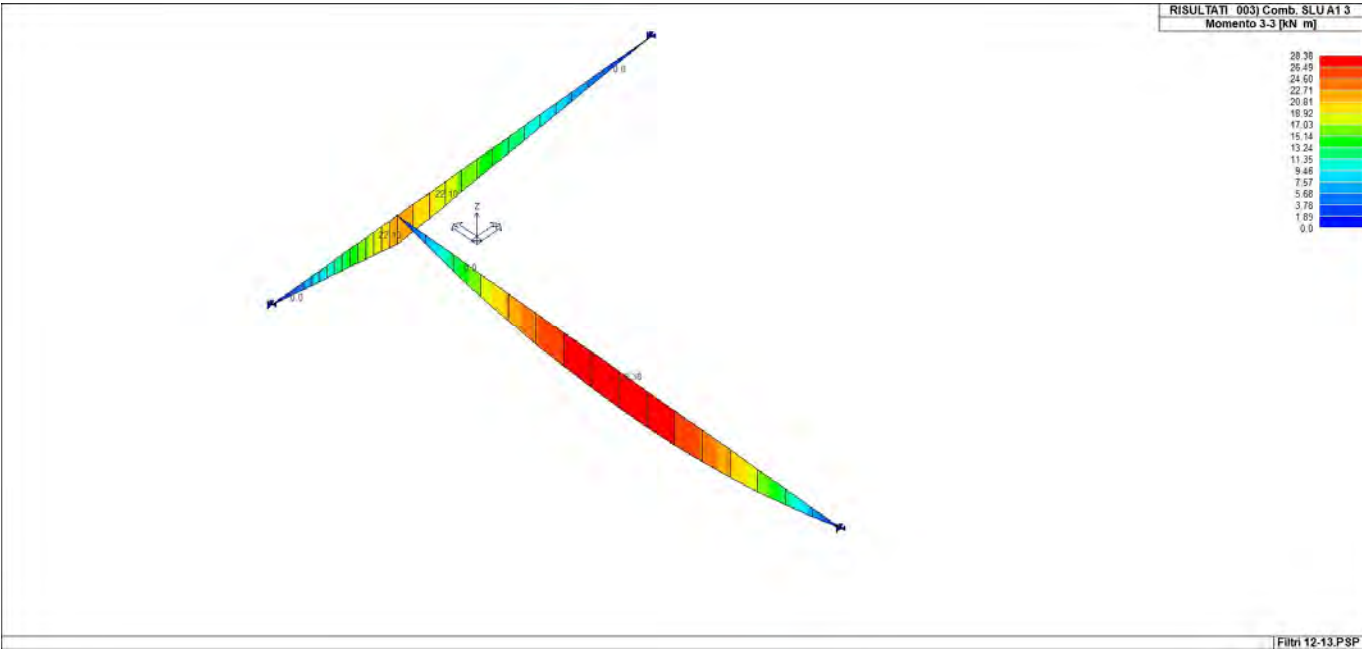
43_RIS_M2_072_Comb. SLE (SLD Danno sism.) 72



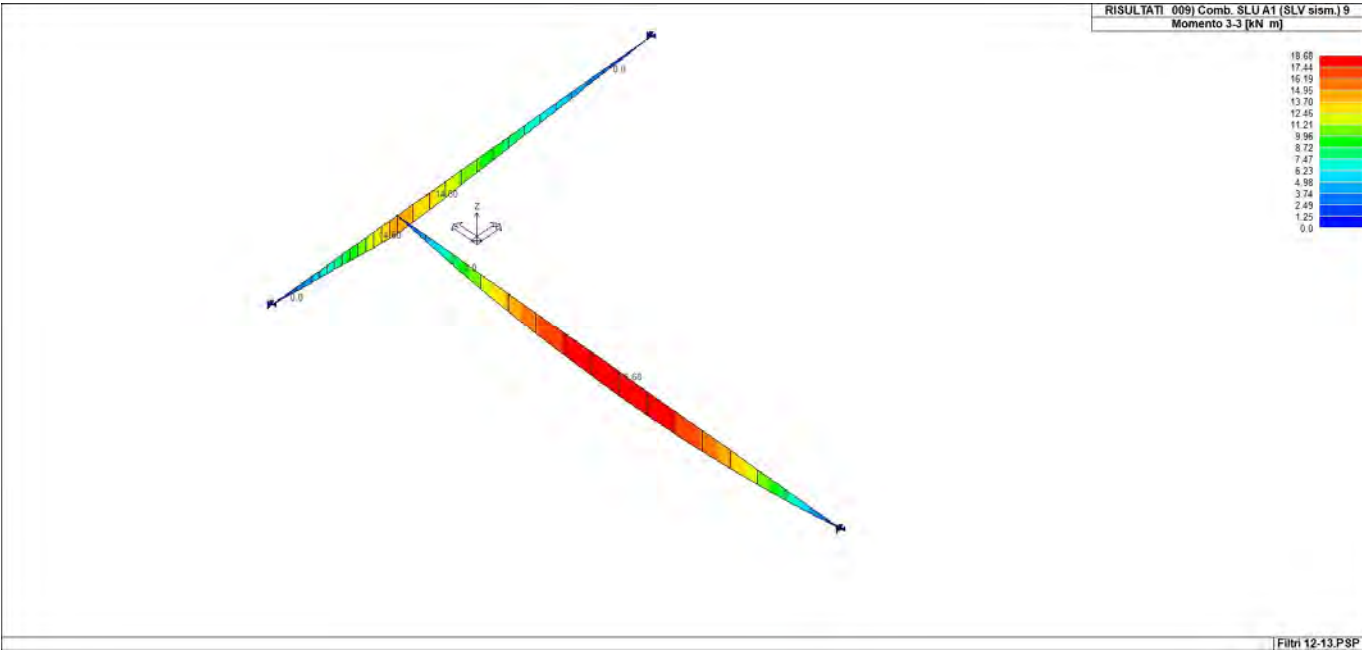
43_RIS_M2_073_Comb. SLE(perm.) 73



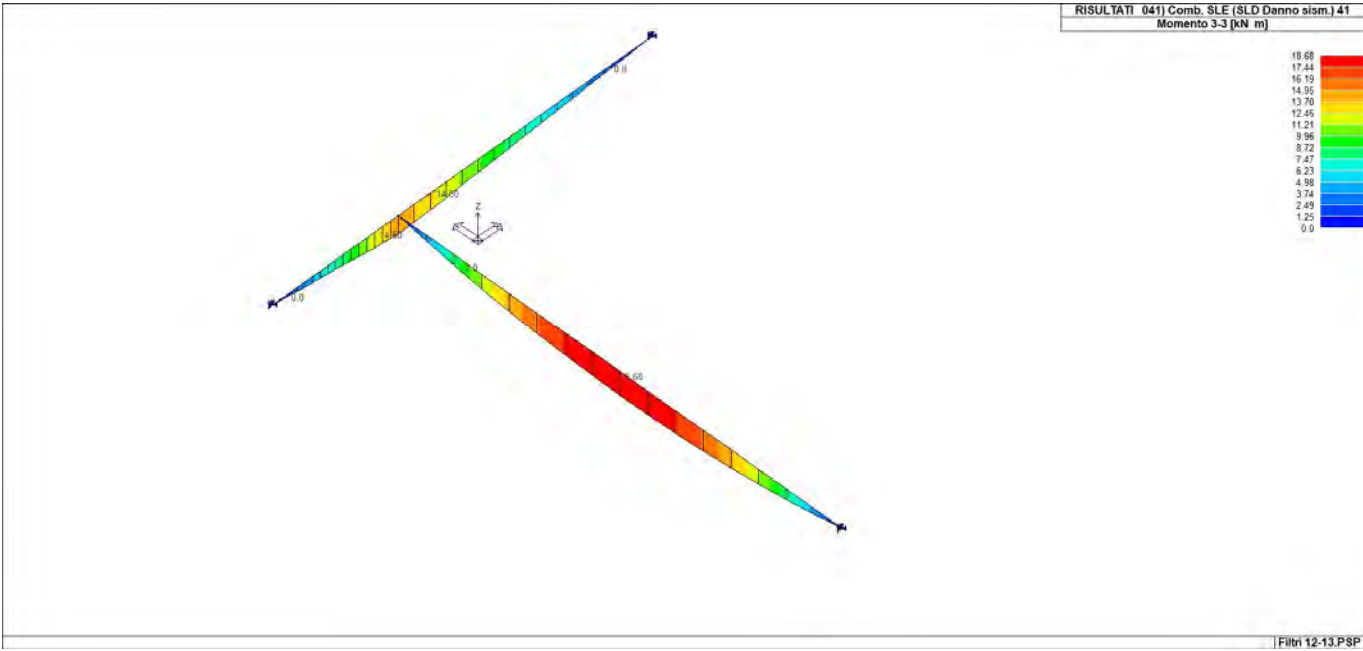
43_RIS_M3_001_Comb. SLU A1 1



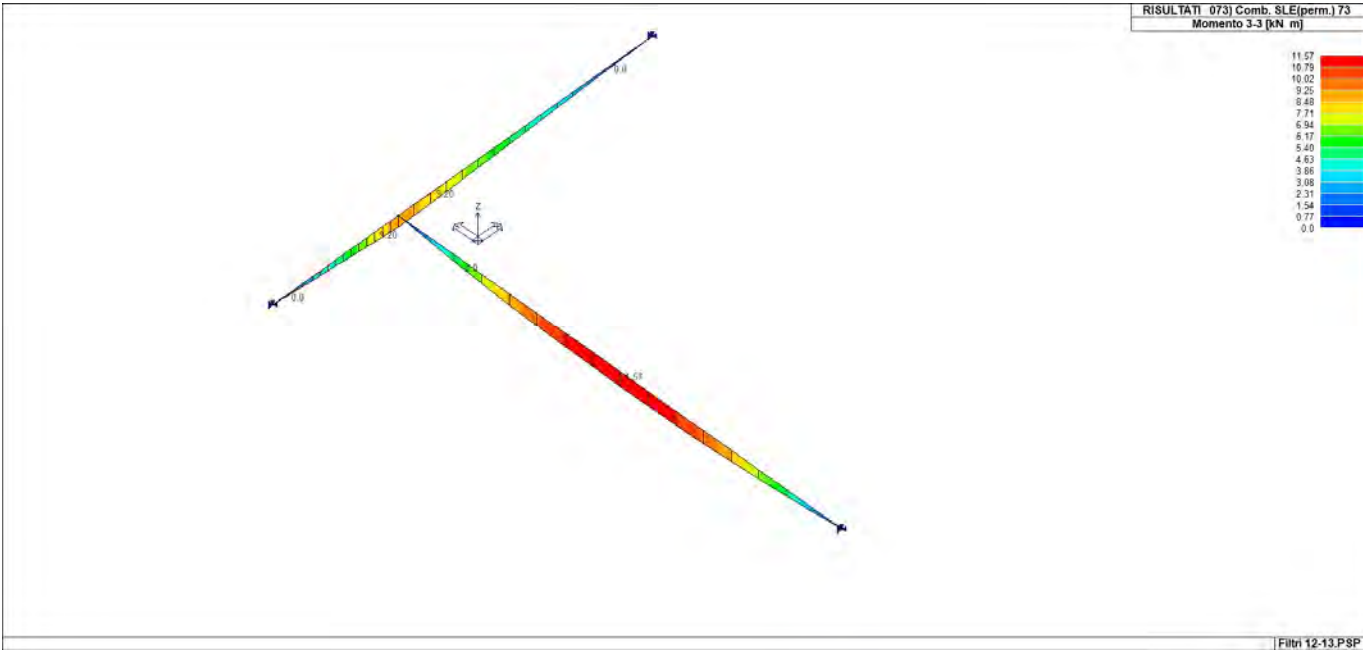
43_RIS_M3_003_Comb. SLU A1 3



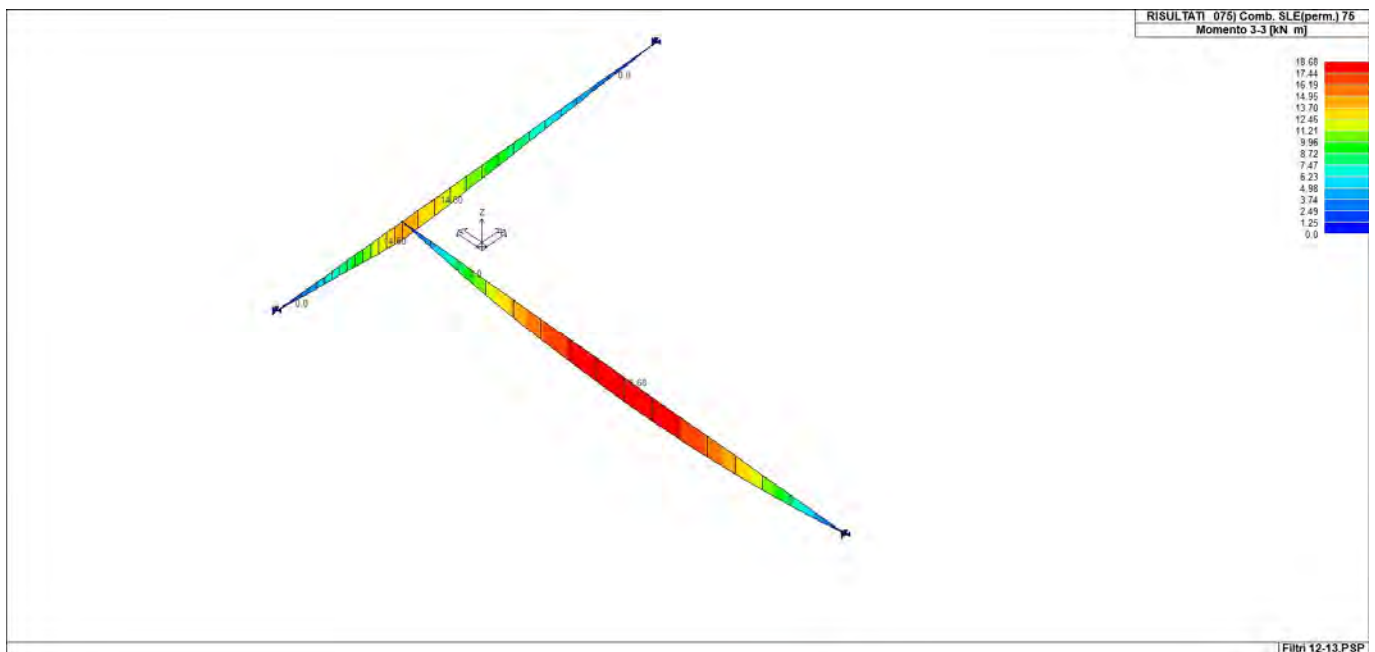
43_RIS_M3_009_Comb. SLU A1 (SLV sism.) 9



43_RIS_M3_041_Comb. SLE (SLD Danno sism.) 41



43_RIS_M3_073_Comb. SLE(perm.) 73



43_RIS_M3_075_Comb. SLE(perm.) 75

VALIDAZIONE SOFTWARE

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SOLLECITAZIONI SU TRAVE TIPO

A titolo di esempio si confronta la trave maggiormente sollecitata sia con le analisi del software sia in forma chiusa. La trave in questione è la HEA 240 della zona filtro 12-13.

Come si evince da disegni architettonici la luce di influenza del carico solaio è presumibilmente di circa 1,5 m. La lunghezza della trave circa 3,50 m (ipotesi che è da validare in sede di DL) tra i due collegamenti.

$$\text{Dead solaio} = 2,4 \cdot 1,3 \cdot 1,5 = 4,7 \text{ kN/m}$$

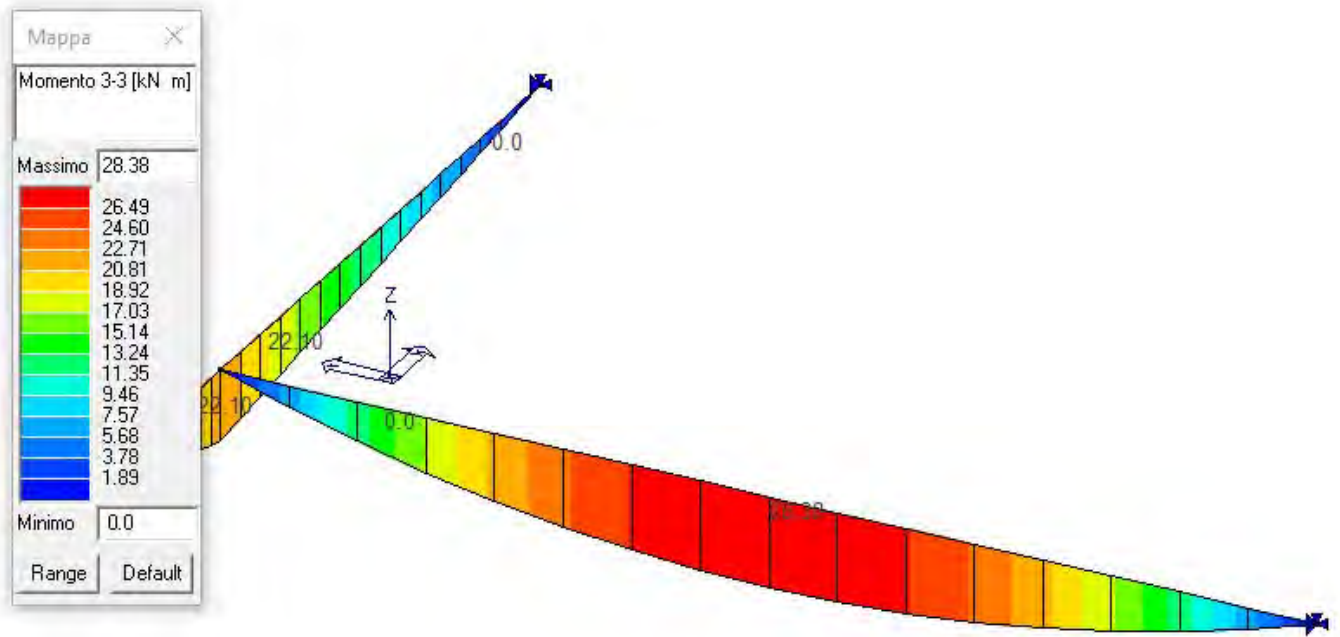
$$\text{Pns solaio} = 2,4 \cdot 1,3 \cdot 1,5 = 4,7 \text{ kN/m}$$

$$\text{Acc solaio} = 4 \cdot 1,5 \cdot 1,5 = 9 \text{ kN/m}$$

$$\text{TOT} = 18,4 \text{ kN/m}$$

Considerando una trave su doppio appoggio si ha;

$$\text{Msd} = 18,4 \cdot 3,5^2 / 8 = 28,17 \text{ kNm}$$



Reazione alla base ottenuto dal software

Il risultato è assolpressochè identico.