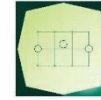


CONCEDENTE



CONCESSIONARIA



SOCIETÀ DI PROGETTO  
BREBEMI SPA

CUP E3 1 B05000390007

COLLEGAMENTO AUTOSTRADALE  
DI CONNESSIONE TRA LE CITTA' DI  
BRESCIA E MILANO

PROCEDURA AUTORIZZATIVA D. LGS 163/2006  
DELIBERA G.I.P.E. DI APPROVAZIONE DEL PROGETTO DEFINITIVO N° 42/2009

INTERCONNESSIONE A35-A4  
PROGETTO DEFINITIVO

INTERCONNESSIONE A35-A4

11 - INTERCONNESSIONE A35-A4

00000 - GENERALE

TIPOLOGICO C - TOMBINI IDRAULICI CON PASSO D'UOMO IN OPERA

RELAZIONE DI CALCOLO

PROGETTAZIONE:

VERIFICA:



**CONSORZIO B.B.M.**

PER IL CONSORZIO  
IL PROGETTISTA RESPONSABILE INTEGRAZIONE  
PRESTAZIONI SPECIALISTICHE  
IMPRESA PIZZAROTTI E C. S. P.A.  
DOTT. ING. PIETRO MAZZOLI  
ORDINE DEGLI INGEGNERI DI PARMA N. 821

PER IL CONSORZIO  
IL DIRETTORE TECNICO  
IMPRESA PIZZAROTTI E C. S. P.A.  
DOTT. ING. SABINO DEL BALZO  
ORDINE DEGLI INGEGNERI DI POTENZA N. 631

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REVISIONE

IL PROGETTISTA IMPRESA PIZZAROTTI E C. S. P.A. DOTT. ING. PIETRO MAZZOLI ORDINE DEGLI INGEGNERI DI PARMA N. 821	N.	REV.	DESCRIZIONE	DATA	REDATTO	DATA	CONTROLLATO	DATA	APPROVATO
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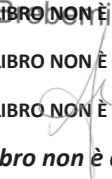
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## 1 PREMESSA

La presente relazione tipologica è relativa ai tombini scatoari a destinazione mista, idraulico - passaggio uomo. Le dimensioni della struttura sono 4.00x2.00, da realizzarsi in opera, previsti nell'ambito del Progetto Definitivo dell'interconnessione A35-A4.


La struttura scatolare ha una larghezza pari a 4,00 m ed altezza utile pari a 2,00 m. I piedritti hanno spessore 45 cm mentre le solette hanno spessore 50cm, la soletta inferiore presenta uno sbalzo di lunghezza pari a 20cm mentre la soletta superiore culmina longitudinalmente con un cordolo, da entrambi gli imbocchi, di spessore 30cm ed altezza 30cm.

Da entrambi gli estremi del tombino vi sono degli imbocchi identificati con "muri ad U", essi rappresentano la continuazione del tombino con assenza della soletta superiore. L'altezza di partenza dei muri ad U coincide con l'altezza utile dello scatolare più lo spessore della soletta, vale a dire 2.50m. Lo spessore della soletta di fondazione è di 50cm mentre quello dei piedritti è pari a 45cm.

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## 2 NORMATIVA DI RIFERIMENTO

I calcoli e le disposizioni esecutive sono conformi alle norme attualmente in vigore.

- D. M. Min. II. TT. del 14 gennaio 2008 – Norme tecniche per le costruzioni
- CIRCOLARE 2 febbraio 2009, n.617 “Istruzione per l’applicazione delle «Nuove norme tecniche per le costruzioni» di cui al decreto ministeriale 14 gennaio 2008
- UNI EN 1991-1-5:2004 Parte 1-5: Azioni sulle strutture - Azioni in generale - Azioni termiche
- UNI EN 1991-2:2005 Parte 2: Azioni sulle strutture - Carichi da traffico sui ponti
- UNI EN 1992-1-1:2005 Parte 1-1: Progettazione delle strutture in calcestruzzo - Regole generali e regole per gli edifici
- UNI EN 1992-2:2006 Parte 2: Progettazione delle strutture in calcestruzzo- Ponti di calcestruzzo, Progettazione e dettagli costruttivi
- UNI EN 1997-1:2005 Parte 1: Progettazione geotecnica - Regole generali
- UNI EN 1998-1:2005 Parte 1: Progettazione delle strutture per la resistenza sismica - Regole generali, azioni sismiche e regole per gli edifici
- UNI EN 1998-2:2009 Parte 2: Progettazione delle strutture per la resistenza sismica - Ponti
- UNI EN 1998-5:2005 Parte 5: Progettazione delle strutture per la resistenza sismica - Fondazioni, strutture di contenimento ed aspetti geotecnici
- UNI EN 197-1 giugno 2001 – “Cemento: composizione, specificazioni e criteri di conformità per cementi comuni
- UNI EN 11104 marzo 2004 – “Calcestruzzo: specificazione, prestazione, produzione e conformità”, Istruzioni complementari per l’applicazione delle EN 206-1
- UNI EN 206-1 ottobre 2006 – “Calcestruzzo: specificazione, prestazione, produzione e conformità”
- Linee guida sul calcestruzzo strutturale - Presidenza del Consiglio Superiore dei Lavori Pubblici - Servizio Tecnico Centrale

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### 3 CRITERI DI CALCOLO

In ottemperanza al D.M. del 14.01.2008 (Norme tecniche per le costruzioni), i calcoli sono condotti con il metodo semiprobabilistico agli stati limite.

#### 3.1 Criteri e definizione dell'azione sismica

L'effetto dell'azione sismica di progetto sull'opera nel suo complesso, includendo il volume significativo di terreno, la struttura di fondazione, gli elementi strutturali e non, nonché gli impianti, deve rispettare gli stati limite ultimi e di esercizio definiti al § 3.2.1, i cui requisiti di sicurezza sono indicati nel § 7.1 della norma.

Il rispetto degli stati limite si considera conseguito quando:

- nei confronti degli stati limite di esercizio siano rispettate le verifiche relative al solo Stato Limite di Danno;
- nei confronti degli stati limite ultimi siano rispettate le indicazioni progettuali e costruttive riportate nel § 7 e siano soddisfatte le verifiche relative al solo Stato Limite di salvaguardia della Vita.

Per Stato Limite di Danno (SLD) s'intende che l'opera, nel suo complesso, a seguito del terremoto, includendo gli elementi strutturali, quelli non strutturali, le apparecchiature rilevanti alla sua funzione, subisce danni tali da non provocare rischi agli utenti e non compromette significativamente la capacità di resistenza e di rigidità nei confronti delle azioni verticali e orizzontali. Lo stato limite di esercizio comporta la verifica delle tensioni di lavoro, in conformità al § 4.1.2.2.5 (NT).

Per Stato Limite di salvaguardia della Vita (SLV) si intende che l'opera a seguito del terremoto subisce rotture e crolli dei componenti non strutturali e impiantistici e significativi danni di componenti strutturali, cui si associa una perdita significativa di rigidità nei confronti delle azioni orizzontali (creazione di cerniere plastiche secondo il criterio della gerarchia delle resistenze), mantenendo ancora un margine di sicurezza (resistenza e rigidità) nei confronti delle azioni verticali.

Gli stati limite, sia di esercizio sia ultimi, sono individuati riferendosi alle prestazioni che l'opera a realizzarsi deve assolvere durante un evento sismico; per la funzione che l'opera deve espletare nella sua vita utile, è significativo calcolare lo Stato Limite di Danno (SLD) per l'esercizio e lo Stato Limite di Salvaguardia della Vita (SLV) per lo stato limite ultimo.

In merito alle opere scatolari di cui trattasi, nel rispetto del punto § 7.9.2., assimilando l'opera scatolare alla categoria delle spalle da ponte, rientrando tra le opere che si muovono con il terreno (§ 7.9.2.1), si può ritenere che la struttura debba mantenere sotto l'azione sismica un comportamento elastico; queste categorie di opere che si muovono con il terreno non subiscono le amplificazioni dell'accelerazione del suolo.

A riguardo del calcolo allo SLV, dovendo la struttura mantenere durante l'evento sismico un comportamento elastico, vengono eseguite le verifiche alle tensioni di esercizio (§ 4.1.2.2.5), assumendo come limite delle tensioni di esercizio quelle adottate per la combinazione caratteristica (rara) (EC2 § 7.2). Tale combinazione, in accordo al punto § 7.10.6.1. (NTC) e alla Circ. 617 § 7.10.6.1. (nella quale si afferma che il sostanziale mantenimento in campo elastico della struttura nelle verifiche allo SLU, fornisce ampie garanzie rispetto alla sicurezza nei confronti dello SLD), consente di ritenere soddisfatte anche le verifiche nei confronti dello SLD.

Per la definizione dell'azione sismica, occorre definire il periodo di riferimento  $P_{VR}$  in funzione dello stato limite considerato.

La vita nominale ( $V_N$ ) dell'opera è stata assunta pari a 50 anni.

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La classe d'uso assunta è la IV .

Il periodo di riferimento ( $V_R$ ) per l'azione sismica, data la vita nominale e la classe d'uso vale:

$$V_R = V_N \cdot C_u = 100 \text{anni}$$

Coordinate geografiche	Latitudine [DEG sessadecimale] Longitudine [DEG sessadecimale]	N E	45.5437 10.1266	Descrizione suolo di fondazione	Depositi di terreni a grana grossa mediamente addensati o terreni a grana fina mediamente consistenti con spessori superiori a 30 m, caratterizzati da un graduale miglioramento delle proprietà meccaniche con la profondità e da valori di $V_s$ , 30 compresi tra 180 m/s e 360 m/s (ovvero $15 < NSPT_{30} < 50$ nei terreni a grana grossa e $70 < cu_{30} < 250$ kPa nei terreni a grana fina).		
Suolo e topografia	Cat. suolo di fondazione (A,...E) Categoria topografica (T1,...T4) Coeff. di amplificazione topografica	C T1 $S_T$	1.0				
Varie	Vita nominale dell'opera (10, 50, 100)	$V_N$ [anni]	50				
	Classe d'uso (I, II, III, IV)		IV				
	Coefficiente d'uso	$C_U$	2.0				
	Periodo di riferimento	$V_R$ [anni]	100				
Struttura	Descrizione	Ponte integrale					
	Massimo fattore di struttura	$q_0$	1				
	Coefficiente riduttivo per regolarità	$K_R$	1				
	Fattore di struttura	$q$	1.0				
	Coeff. di smorz. viscoso equivalente	$\xi$	5%				
	Fattore di smorzamento viscoso	$\eta$	1.00				
	Inverso fattore di struttura	$1/q$	1.00				
					<b>DATI SPETTRALI</b>		
				Stati limite d'esercizio			
				Stati limite ultimi			
				SLO	SLD	SLV	SLC
Probabilità di superamento	$P_{Vr}$	81%	63%	10%	5%		
Periodo di ritorno	$T_R$ [anni]	60	101	949	1950		
Accelerazione	$a_g$ [ $m/s^2$ ]	0.579	0.747	1.808	2.288		
	$a_g/g$	0.059	0.076	0.184	0.233		
Fattore di amplificazione	$F_0$	2.419	2.414	2.454	2.462		
Periodo in. velocità costante	$T_C^*$ [s]	0.239	0.252	0.289	0.297		
Coefficiente di sottosuolo	$C_C$	1.68	1.65	1.58	1.57		
Coeff. di amplif. stratigrafica	$S_S$	1.50	1.50	1.43	1.36		
Coefficiente di sito	$S$	1.50	1.50	1.43	1.36		
Periodi	$T_B$ [s]	0.134	0.139	0.152	0.155		
	$T_C$ [s]	0.402	0.417	0.457	0.466		
	$T_D$ [s]	1.836	1.905	2.337	2.533		

Il calcolo viene eseguito con il metodo pseudostatico (NT par. 7.11.6). In queste condizioni l'azione sismica è rappresentata da una forza statica equivalente pari al prodotto delle forze di gravità per un opportuno coefficiente sismico.

Nelle verifiche allo Stato Limite Ultimo i valori dei coefficienti sismici orizzontali  $k_h$  e verticale  $k_v$  possono essere valutati mediante le espressioni:

$$k_h = \beta_m \cdot \frac{a_{max}}{g} \quad k_v = \pm 0.5 \cdot k_h$$

dove

$a_{max}$  = accelerazione orizzontale massima attesa al sito;

$g$  = accelerazione di gravità;

L'accelerazione massima è valutata con la relazione

$$a_{max}(SLV) = S \cdot a_g = 1,43 \cdot 0,184g = 0,263 g$$

Essendo lo scatolare una struttura che non ammette spostamenti relativi rispetto al terreno, il coefficiente  $\beta_m$ , assume il valore:

$$\beta_m = 1,00$$

Pertanto, i due coefficienti sismici valgono:

$$(SLV) \quad k_h = \beta_m \cdot \frac{a_{max}}{g} = 0,263 \quad k_v = \pm 0,5 \cdot k_h = 0,125$$

Le spinte delle terre, considerando lo scatolare una struttura rigida e priva di spostamenti (NT par. 7.11.6.2.1 e EC8-5 par.7.3.2.1), sono calcolate in regime di spinta a riposo, condizione che comporta il calcolo delle spinte in condizione sismica non con la formula di cui sopra ( $k_h$ ;  $k_v$ ), ma con l'incremento dinamico di spinta del terreno calcolato secondo la formula di wood:

$$\Delta P_d = S \cdot a_g / g \cdot \gamma \cdot h_{tot}^2$$

Il punto di applicazione della spinta che interessa lo scatolare è posto  $h_{scat}/2$ , con "h<sub>tot</sub>" altezza dal piano campagna alla fondazione dello scatolare e  $h_{scat}$  l'altezza dello scatolare.

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Essendo “ $\Delta P_d$ ” la risultante globale, ed il diagramma di spinta di tipo rettangolare, è immediato ricavare la quota parte della spinta che agisce sul piedritto dello scatolare.

L’azione sismica è rappresentata da un insieme di forze statiche orizzontali e verticali, date dal prodotto delle forze di gravità per i coefficienti sismici in precedenza definiti, dove la componente verticale è considerata agente verso l’alto o verso il basso, in modo da produrre gli effetti più sfavorevoli.

### 3.2 Combinazioni di carico

Le combinazioni di carico, considerate ai fini delle verifiche, sono stabilite in modo da garantire la sicurezza in conformità a quanto prescritto al cap. 2 delle NT.

#### 3.2.1 Combinazioni per la verifica allo SLU

Gli stati limite ultimi delle opere interrato si riferiscono allo sviluppo di meccanismi di collasso, determinati dalla mobilitazione della resistenza del terreno, e al raggiungimento della resistenza degli elementi strutturali che compongono l’opera.

Le verifiche agli stati limite ultimi sono eseguiti in riferimento ai seguenti stati limite:

- SLU di tipo geotecnico (GEO) e di equilibrio di corpo rigido (EQU)
  - collasso per carico limite dell’insieme fondazione-terreno;
- SLU di tipo strutturale (STR)
  - raggiungimento della resistenza negli elementi strutturali.

Trattandosi di opere interrato, le verifiche saranno condotte secondo l’approccio progettuale “Approccio 1”, utilizzando i coefficienti parziali riportati nelle Tabelle 6.2.I e 5.1.V per i parametri geotecnici e le azioni.

1. combinazione 1  $\rightarrow$  (A1+M1+R1)  $\rightarrow$  STR
2. combinazione 2  $\rightarrow$  (A2+M2+R2)  $\rightarrow$  GEO (carico limite)

Tabella 6.2.II - Coefficienti parziali per i parametri del terreno

PARAMETRO	GRANDEZZA ALLA QUALE APPLICARE IL COEFF. PARZIALE	COEFFICIENTE PARZIALE $\gamma_M$	M <sub>1</sub>	M <sub>2</sub>
Tangente dell’angolo di resistenza al taglio	$\tan \phi'_k$	$\gamma_{\phi'}$	1	1,25
Coazione efficace	$c'_k$	$\gamma_c$	1	1,25
Resistenza non drenata	$c'_{uk}$	$\gamma_{cu}$	1	1,4
Peso dell’unità di volume	$\gamma$	$\gamma_\gamma$	1	1

Tabella 6.2.II/5.1.V - Coefficienti parziali per le azioni o per l’effetto delle azioni

CARICHI	EFFETTO	SIMBOLO $\gamma_F$	EQU	(A1) STR	(A2) GEO
Permanente	favorevole	$\gamma_{G1}$	0,9	1,0	1,0
	sfavorevole		1,1	1,35	1,0
Permanente non strutturali	favorevole	$\gamma_{G2}$	0,0(0,9)	0,0	0,0
	sfavorevole		1,5 (1,1)	1,35	1,0
Variabili da traffico	favorevole	$\gamma_Q$	0,0	0,0	0,0
	sfavorevole		1,35	1,35	1,15

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Variabili	favorevole	$\gamma_{Qi}$	0,0	0,0	0,0
	sfavorevole		1,5	1,5	1,30

Tabella 6.5.I - Coefficienti parziali  $\gamma_R$  per la resistenza del sistema

VERIFICA	COEFF. PARZIALE (R1)	COEFF. PARZIALE (R2)
Capacità portante della fondazione	$\gamma_R=1$	$\gamma_R=1,8$
Scorrimento	$\gamma_R=1$	$\gamma_R=1,1$

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

$$\text{STR}) \Rightarrow \gamma_{G1} \cdot G_1 + \gamma_{G2} \cdot G_2 + \gamma_{Q1} \cdot Q_{k1} + \sum_i \psi_{0i} \cdot Q_{ki} \Rightarrow (\Phi_d' = \Phi_k')$$

$$\text{GEO}) \Rightarrow \gamma_{G1} \cdot G_1 + \gamma_{G2} \cdot G_2 + \gamma_{Q1} \cdot Q_{k1} + \sum_i \psi_{0i} \cdot Q_{ki} \Rightarrow (\text{spinte } \Phi_d' = \tan^{-1}(\tan \Phi_k' / \gamma_\Phi))$$

### 3.2.2 Combinazioni per la verifica allo SLE

Ai fini delle verifiche degli stati limite di esercizio (fessurazione/ stato tensionale) si definiscono le seguenti combinazioni:

$$\text{Frequente}) \Rightarrow G_1 + G_2 + \psi_{11} \cdot Q_{k1} + \sum_i \psi_{2i} \cdot Q_{ki} \Rightarrow (\Phi_d' = \Phi_k')$$

$$\text{Quasi permanente}) \Rightarrow G_1 + G_2 + \psi_{21} \cdot Q_{k1} + \sum_i \psi_{2i} \cdot Q_{ki} \Rightarrow (\Phi_d' = \Phi_k')$$

$$\text{Rara}) \Rightarrow G_1 + G_2 + Q_{k1} + \sum_i \psi_{0i} \cdot Q_{ki} \Rightarrow (\Phi_d' = \Phi_k')$$

### 3.2.3 Combinazioni per la condizione sismica

Per la condizione sismica, le combinazioni per gli stati limite ultimi da prendere in considerazione sono le seguenti (approccio 1):

$$\text{STR}) \Rightarrow E + G_1 + G_2 + \sum_i \psi_{2i} \cdot Q_{ki} \Rightarrow (\Phi_d' = \Phi_k')$$

$$\text{GEO}) \Rightarrow E + G_1 + G_2 + \sum_i \psi_{2i} \cdot Q_{ki} \Rightarrow (\text{spinte } \Phi_d' = \tan^{-1}(\tan \Phi_k' / \gamma_\Phi))$$

Le verifiche agli stati limite ultimi § 7.11.1(NTC) devono essere effettuate ponendo pari all'unità i coefficienti parziali sulle azioni e impiegando i parametri geotecnici e le resistenze di progetto, con i valori dei coefficienti parziali indicati nel Cap. 6.

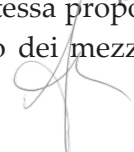
Gli effetti dell'azione sismica saranno valutati tenendo conto delle masse associate ai seguenti carichi gravitazionali:

$$G_1 + G_2 + \sum_i \psi_{2i} \cdot Q_{ki}$$

I valori del coefficiente  $\psi_{2i}$  sono quelli riportati nella tabella 5.1.VI e § 2.5.I della norma; la stessa propone nel caso di ponti, e più in generale per opere stradali, di assumere per i carichi dovuti al transito dei mezzi  $\psi_{2i} = 0,2$  (condizione cautelativa).

Data la natura dell'opera in progetto, così come previsto dalla norma, si può assumere  $\psi_{2i} = 0$ .

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## 4 CARATTERISTICHE DEI MATERIALI

Per la realizzazione dell'opera è previsto l'impiego dei sottoelencati materiali.

### 4.1 Calcestruzzo per magrone

Per il magrone di sottofondazione si prevede l'utilizzo di calcestruzzo di classe Rck 15.

### 4.2 Calcestruzzo

1) Per la realizzazione della fondazione dello scatolare, si prevede l'utilizzo di calcestruzzo in classe Rck  $\geq 35$

N/mm<sup>2</sup> che presenta le seguenti caratteristiche:

Resistenza a compressione (cilindrica)	→	$f_{ck} = 28.00$ N/mm <sup>2</sup>
Resistenza di calcolo a compressione	→	$f_{cd} = \alpha_{cc} * f_{ck} / \gamma_c = 0.85 * f_{ck} / 1.5 = 15.87$ N/mm <sup>2</sup>
Resistenza di calcolo a compressione elastica	→	$\sigma_c = 0.60 * f_{ck} = 16.80$ N/mm <sup>2</sup>
Resistenza a trazione media	→	$f_{ctm} = 0.30 * f_{ck}^{2/3} = 2.77$ N/mm <sup>2</sup>
Resistenza a trazione	→	$f_{ctk} = 0.7 * f_{ctm} = 1.936$ N/mm <sup>2</sup>
Resistenza a trazione di calcolo	→	$f_{ctd} = f_{ctk} / \gamma_c = 1.291$ N/mm <sup>2</sup>
Resistenza a compressione (comb. Rara)	→	$\sigma_c = 0.60 * f_{ck} = 16.80$ N/mm <sup>2</sup>
Resistenza a compressione (comb. Quasi permanente)	→	$\sigma_c = 0.45 * f_{ck} = 12.60$ N/mm <sup>2</sup>

2) Per la realizzazione dei piedritti e della soletta di copertura, si prevede l'utilizzo di calcestruzzo in classe Rck

$\geq 40$  N/mm<sup>2</sup> che presenta le seguenti caratteristiche:

Resistenza a compressione (cilindrica)	→	$f_{ck} = 32.00$ N/mm <sup>2</sup>
Resistenza di calcolo a compressione	→	$f_{cd} = \alpha_{cc} * f_{ck} / \gamma_c = 0.85 * f_{ck} / 1.5 = 18.13$ N/mm <sup>2</sup>
Resistenza di calcolo a compressione elastica	→	$\sigma_c = 0.60 * f_{ck} = 19.20$ N/mm <sup>2</sup>
Resistenza a trazione media	→	$f_{ctm} = 0.30 * f_{ck}^{2/3} = 3.02$ N/mm <sup>2</sup>
Resistenza a trazione	→	$f_{ctk} = 0.7 * f_{ctm} = 2.12$ N/mm <sup>2</sup>
Resistenza a trazione di calcolo	→	$f_{ctd} = f_{ctk} / \gamma_c = 1.41$ N/mm <sup>2</sup>
Resistenza a compressione (comb. Rara)	→	$\sigma_c = 0.60 * f_{ck} = 19.20$ N/mm <sup>2</sup>
Resistenza a compressione (comb. Quasi permanente)	→	$\sigma_c = 0.45 * f_{ck} = 14.40$ N/mm <sup>2</sup>

### 4.3 Acciaio per cemento armato

Per le armature metalliche si adottano tondini in acciaio del tipo B450C controllato in stabilimento che presentano le seguenti caratteristiche:

Proprietà	Requisito
Limite di snervamento $f_y$	$\geq 450$ MPa
Limite di rottura $f_t$	$\geq 540$ MPa
Allungamento totale al carico massimo $A_{gt}$	$\geq 7.5\%$
Rapporto $f_t/f_y$	$1,15 \leq R_m/R_e \leq 1,35$
Rapporto $f_{y \text{ misurato}} / f_{y \text{ nom}}$	$\leq 1,25$

Tensione di snervamento caratteristica	→	$f_{yk} \geq 450$ N/mm <sup>2</sup>
Tensione caratteristica a rottura	→	$f_{tk} \geq 540$ N/mm <sup>2</sup>
Tensione in condizione di esercizio (comb. Rara)	→	$\sigma_c = 0,80 * f_{yk} = 360,00$ N/mm <sup>2</sup>
Fattore di sicurezza acciaio	→	$\gamma_s = 1,15$

Resistenza a trazione di calcolo  $\rightarrow f_{yd} = f_{yk} / \gamma_s = 391,30 \text{ N/mm}^2$

#### 4.4 Durabilità e prescrizioni sui materiali

Per garantire la durabilità delle strutture in calcestruzzo armato ordinario, esposte all'azione dell'ambiente, si devono adottare i provvedimenti atti a limitare gli effetti di degrado indotti dall'attacco chimico, fisico e derivante dalla corrosione delle armature e dai cicli di gelo e disgelo.

Al fine di ottenere la prestazione richiesta in funzione delle condizioni ambientali, nonché per la definizione della relativa classe, si fa riferimento alle indicazioni contenute nelle Linee Guida sul calcestruzzo strutturale edite dal Servizio Tecnico Centrale del Consiglio Superiore dei Lavori Pubblici ovvero alle norme UNI EN 206-1:2006 ed UNI 11104:2004.

Per le opere della presente relazione si adotta quanto segue:

Fondazione CLASSE DI ESPOSIZIONE XC2  
Elevazione CLASSE DI ESPOSIZIONE XC4-XD1-XF1

Condizioni ambientali	Classe di esposizione
Ordinarie	X0, XC1, XC2, XC3, XF1
Aggressive	XC4, XD1, XS1, XA1, XA2, XF2, XF3
Molto aggressive	XD2, XD3, XS2, XS3, XA3, XF4

Tabella 4.1.III: Descrizione delle condizioni ambientali

Le fondazioni dei muri si trovano in condizioni ambientali *Ordinarie*, le elevazioni in condizioni *Aggressive*.

Nella tabella 4.1.IV sono indicati i criteri di scelta dello stato limite di fessurazione con riferimento alle condizioni ambientale e al tipo di armatura.


Gruppi di esigenze	Condizioni ambientali	Combinazione di azioni	Armatura			
			Sensibile		Poco sensibile	
			Stato limite	$w_d$	Stato limite	$w_d$
a	Ordinarie	frequente	ap. fessure	$\leq w_2$	ap. fessure	$\leq w_3$
		quasi permanente	ap. fessure	$\leq w_2$	ap. fessure	$\leq w_2$
b	Aggressive	frequente	ap. fessure	$\leq w_2$	ap. fessure	$\leq w_2$
		quasi permanente	decompressione	-	ap. fessure	$\leq w_1$
c	Molto aggressive	frequente	formazione fessure	-	ap. fessure	$\leq w_1$
		quasi permanente	decompressione	-	ap. fessure	$\leq w_1$

Tabella 4.1.IV: Criteri di scelta dello stato limite di fessurazione

In grigio chiaro sono indicate gli stati limite di fessurazione da utilizzare per le verifiche delle fondazioni in grigio scuro sono indicati quelli per le elevazioni.

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#### 4.5 Copriferro minimo e copriferro nominale

Ai fini di preservare le armature dai fenomeni di aggressione ambientale, dovrà essere previsto un idoneo copriferro; il suo valore, misurato tra la parete interna del cassero e la generatrice dell'armatura metallica più vicina, individua il cosiddetto "copriferro nominale".

Il copriferro nominale  $c_{nom}$  è somma di due contributi, il copriferro minimo  $c_{min}$  e la tolleranza di posizionamento  $h$ . Vale pertanto:  $c_{nom} = c_{min} + h$ .

La tolleranza di posizionamento delle armature  $h$ , per le strutture gettate in opera, può essere assunta pari ad almeno 5 mm. Considerata la Classe di esposizione ambientale dell'opera, si adotta un copriferro minimo pari a 35mm, pertanto  $c_{nom}=40$  mm, valore valido per tutte le parti di struttura.

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## 5 PARAMETRI GEOTECNICI PER IL CALCOLO DELLE STRUTTURE

I parametri necessari a definire le caratteristiche del terreno ai fini del calcolo delle strutture sono ricavati dalla Relazione Geotecnica Generale, rif. 00429-00010-A-00 e dalle tavole del profilo geotecnico longitudinale.


- I parametri geotecnici necessari al calcolo sono::

Carratterizzazione materiali da rilevato/reinterri																
Parametri in condizioni drenate					Spinta a riposo			Spinta attiva			Spinta Passiva			Peso di volume		Permeabilità
$\phi'_k$	$\phi'_{dM1}$	$\phi'_{dM2}$	$E'_{25}$	$E_{UR}$	$K_{0k}$	$K_{0M1}$	$K_{0M2}$	$K_{Ak}$	$K_{AM1}$	$K_{AM2}$	$K_{Pk}$	$K_{PM1}$	$K_{PM2}$	naturale $\gamma_n$ (kN/m <sup>3</sup> )	sommerso $\gamma'$ (kN/m <sup>3</sup> )	k (m/s)
(°)	(°)	(°)	(Mpa)	(Mpa)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(kN/m <sup>3</sup> )	(kN/m <sup>3</sup> )	(m/s)
38	38	32	40	120	0.380	0.380	0.470	0.238	0.238	0.307	4.200	4.200	3.250	20	11	$1 \times E^{-3} \div E^{-5}$

I coefficienti di spinta sono calcolati secondo la teoria di Caquot - Kerisel ipotizzando angolo d'attrito tra terreno e struttura di sostegno  $\delta = 0$  ed ipotizzando che il terreno a monte/valle del sostegno (rispettivamente per il calcolo di  $K_a$  e  $K_p$ ) sia orizzontale ( $\beta = 0^\circ$ ). Nel caso in cui tali ipotesi iniziali non siano rappresentative del problema in oggetto, i valori delle spinte dovranno essere calcolati nuovamente utilizzando la stessa teoria.

LEGENDA PARAMETRI	
$\phi'_k$	Angolo di resistenza al taglio caratteristico;
$\phi'_{dM1}$	Angolo di resistenza al taglio di progetto secondo coefficienti parziali M1 come da NTC2008;
$\phi'_{dM2}$	Angolo di resistenza al taglio di progetto secondo coefficienti parziali M2 come da NTC2008;
$E'_{25}$	Modulo elastico secante corrispondente alla mobilitazione del 25% della resistenza del terreno;
$E_{UR}$	Modulo elastico secante in ricarica;
$K_{0k}$	Valore caratteristico del coefficiente di spinta a riposo;
$K_{0M1}$	Valore di progetto del coefficiente di spinta a riposo secondo coefficienti parziali M1 come da NTC2008;
$K_{0M2}$	Valore di progetto del coefficiente di spinta a riposo secondo coefficienti parziali M2 come da NTC2008;
$K_{Ak}$	Valore caratteristico del coefficiente di spinta attiva;
$K_{AM1}$	Valore di progetto del coefficiente di spinta attiva secondo coefficienti parziali M1 come da NTC2008;
$K_{AM2}$	Valore di progetto del coefficiente di spinta attiva secondo coefficienti parziali M2 come da NTC2008;
$K_{Pk}$	Valore caratteristico del coefficiente di spinta passiva;
$K_{PM1}$	Valore di progetto del coefficiente di spinta passiva secondo coefficienti parziali M1 come da NTC2008;
$K_{PM2}$	Valore di progetto del coefficiente di spinta passiva secondo coefficienti parziali M2 come da NTC2008;
$\gamma_n$	Peso di volume naturale;
$\gamma'$	Peso di volume sommerso;
k	Permeabilità;

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## 6 SCHEMA STATICO E ANALISI DEI CARICHI

### 6.1 Programmi di calcolo utilizzato

Il programma di calcolo utilizzato per le analisi dello scatolare è SAP2000, che opera secondo il metodo degli spostamenti attraverso un solutore di equazione a blocchi. SAP2000 è prodotto da CSI Computers & Structures, INC. con sede a Berkeley (CA). Il software è distribuito in Italia da CSI Italia Srl. La versione del software utilizzata è la 14 con licenza n° 2A0C/80-0x2EE61.

Le verifiche vengono eseguite tramite opportuni fogli di calcolo precedentemente elaborati ed ampiamente testati, in grado di fornire i domini di resistenza di sezioni rettangolari comunque armate e di eseguirle necessarie elaborazioni per le verifiche a taglio e a fessurazione.

### 6.2 Modellazione adottata

Per la mesh del calcolo (si rimanda alle Figg. 1 e 2) si è assunto lo schema statico di telaio chiuso. La mesh è composta da 54 aste e da 54 nodi; l'output dell'indagine elettronica viene raccolto nell'allegato.

Il suolo viene modellato facendo ricorso all'usuale artificio delle molle elastiche alla Winkler.

La costante di sottofondo del terreno di fondazione adottata nelle successive calcolazioni:

$$K_s = 1000 \text{ kN/m}^3$$

Agli effetti delle caratteristiche geometriche delle varie aste si è modellata una striscia di struttura di larghezza pari a  $D=100\text{cm}$  ed altezza pari allo spessore dell'elemento rappresentato:

- 100 x 25 cm per la soletta superiore
- 100 x 25 cm per la soletta di fondazione
- 100 x 25 cm per i piedritti

Per le aste del reticolo si è assunto:

$E_c = 32588 \text{ N/mm}^2$  ; modulo elastico del calcestruzzo (C28/35) per la fondazione

$E_c = 33643 \text{ N/mm}^2$  ; modulo elastico del calcestruzzo (C32/40) per l'elevazione

Lo schema statico della struttura e la relativa numerazione dei nodi e delle aste sono riportati nelle Figg.1 e 2.

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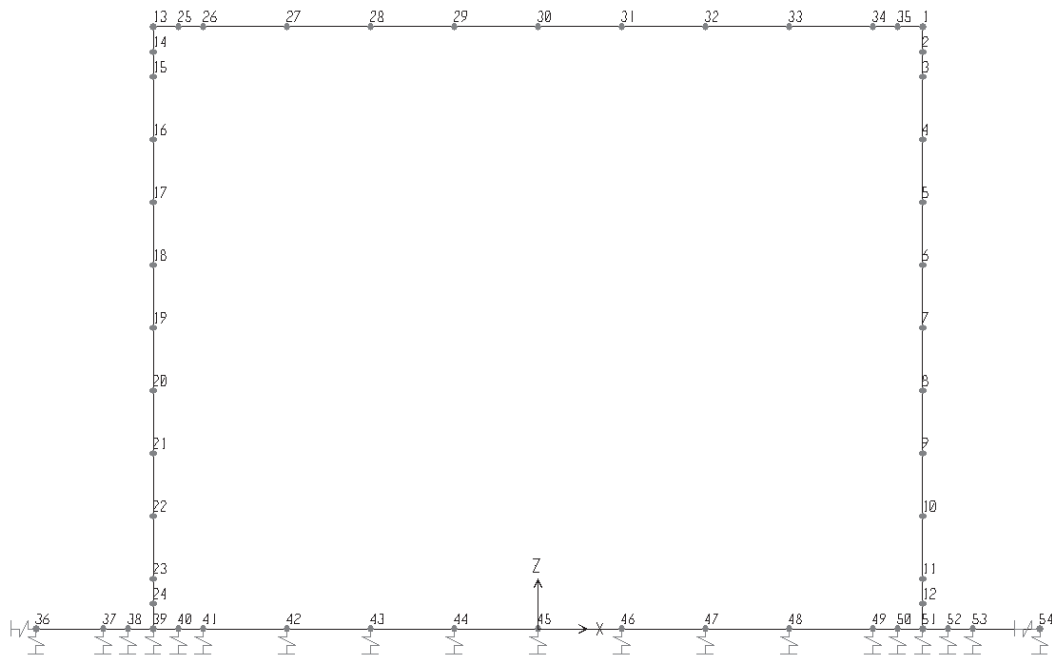


Figura 1 – Numerazione dei nodi

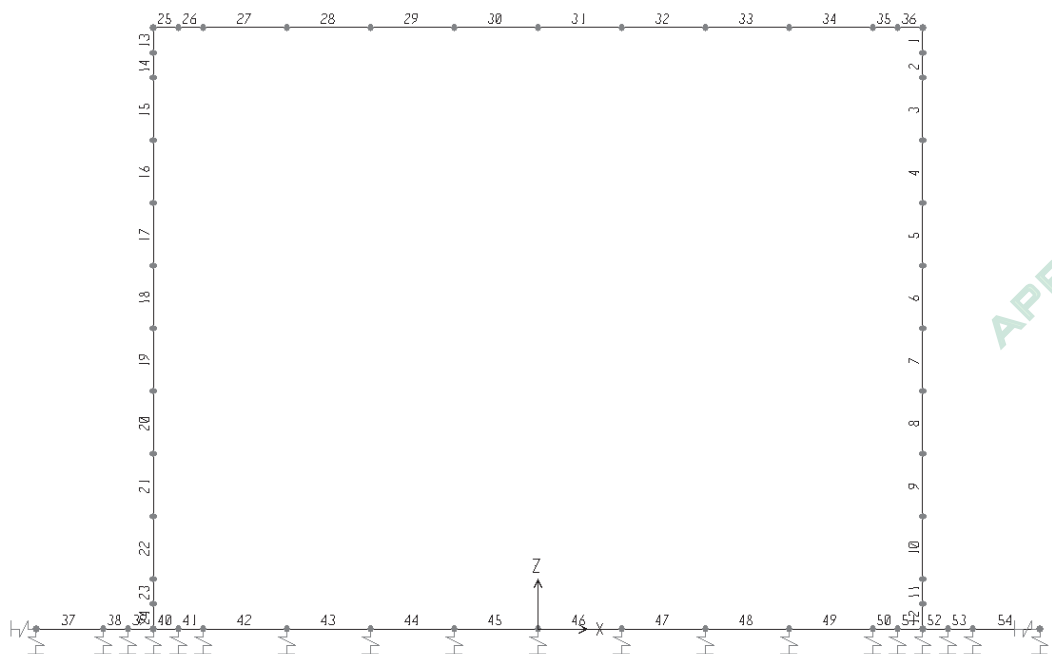


Figura 2 – Numerazione delle aste

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## 7 CONDIZIONI DI CARICO ELEMENTARI

Nel seguente paragrafo si descrivono i carichi elementari da assumere per le verifiche di resistenza in esercizio ed in presenza dell'evento sismico.

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Tali Combinazioni Elementari saranno opportunamente combinate secondo quanto previsto dalla normativa vigente.

Nei successivi paragrafi si riporta la metodologia adottata per l'analisi dei carichi condotta con un apposito foglio di calcolo di cui nel successivo capitolo si riportano i tabulati

## 7.1 Peso proprio e carichi permanenti portati

Il peso specifico del c.a. è  $\gamma_c = 25 \text{ kN/m}^3$

### Soletta superiore

- peso proprio	12.5 kN/m <sup>2</sup>
- peso sovrastruttura stradale	3.00 kN/m <sup>2</sup>

### Soletta inferiore

- peso proprio	12.25 kN/m <sup>2</sup>
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### Piedritti

- peso proprio	11.25 kN/m <sup>2</sup>
----------------	-------------------------

## 7.2 Spinte del terreno

Il rinterro a ridosso dello scatolare verrà realizzato tramite materiale arido di buone caratteristiche meccaniche. Per tale materiale, conformemente a quanto riportato nella relazione geotecnica del presente lotto, si ha:

$\gamma_t = 19,00 \text{ kN/m}^3$	peso specifico del terreno
$\gamma' = 11,00 \text{ kN/m}^3$	peso specifico del terreno sommerso
$\phi = 35^\circ$	angolo d'attrito
$c = 0$	coesione

Si applicano, di conseguenza, i valori delle spinte secondo la profondità con

$$p_h = K \gamma_t z$$

e con il consueto diagramma trapezoidale delle pressioni orizzontali.

Le pressioni del terreno relative alla spinta a riposo, in corrispondenza dei nodi caratteristici del piedritto di destra, risultano essere le seguenti:

$P_{\min} = K_0 * H_r * \gamma_t$	kN/m <sup>2</sup>	[ST1S]
$P_{\max} = K_0 * \gamma_t * (H + S_{psolinf} / 2 + S_{psolsup} / 2)$	kN/m <sup>2</sup>	[ST2S]
In caso di presenza di falda:		
$P'_{\max} = K_0 * \gamma' * (H + S_{psolinf} / 2 + S_{psolsup} / 2)$	kN/m <sup>2</sup>	[ST2S]
$P''_{\max} = \gamma_w * (H + S_{psolinf} / 2 + S_{psolsup} / 2)$	kN/m <sup>2</sup>	[SW2S]

Le pressioni del terreno relative alla spinta attiva, in corrispondenza dei nodi caratteristici del piedritto, risultano essere le seguenti:

$P_{\min} = - K_a * H_r * \gamma_t$	kN/m <sup>2</sup>	[ST1D]
$P_{\max} = - K_a * \gamma_t * (H + S_{psolinf} / 2 + S_{psolsup} / 2)$	kN/m <sup>2</sup>	[ST2D]
In caso di presenza di falda:		
$P_{\max} = - K_a * \gamma' * (H + S_{psolinf} / 2 + S_{psolsup} / 2)$	kN/m <sup>2</sup>	[ST2D]
$P'_{\max} = - \gamma_w * (H + S_{psolinf} / 2 + S_{psolsup} / 2)$	kN/m <sup>2</sup>	[SW2D]
$P''_{\max} = - \gamma_w * (H + S_{psolinf} / 2 + S_{psolsup} / 2)$	kN/m <sup>2</sup>	[SW2D]

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Sempre in presenza di falda agisce sulla soletta inferiore la spinta di archimede, verso l'alto, pari a:

$$V''_{\max} = \gamma_w [*(H+S_{psolsup}/2) + S_{psolinf}*(B + S_{ppie} + 2*S_{balzo})] \quad \text{kN/m}^2 \quad [\text{SA}]$$

Tali spinte vengono considerate nelle seguenti condizioni elementary:

- agenti su entrambi i piedritti (spinta attiva)
- agenti sul piedritto sinistro (spinta a riposo) e sul piedritto destro (spinta attiva).
- agenti su entrambi i piedritti (spinta a riposo)

Le condizioni sopra descritte servono a mettere in conto possibili situazioni (anche temporanee) di disomogeneità nei costipamenti o altre condizioni che possano generare situazioni di spinte asimmetriche sull'opera.

Naturalmente queste spinte saranno opportunamente combinate, utilizzando i valori dei coefficienti parziali delle azioni da assumere nell'analisi per la determinazione degli effetti delle azioni nelle verifiche agli stati limite ultimi.

### 7.3 Carichi da traffico veicolare sulla soletta superiore

Con riferimento alle norme vigenti (vedi paragrafo 5.1.3 del D.M. 14-01-2008) come azioni variabili da traffico gravante sulla soletta superiore si assume lo schema di carico 1. Il carico di normativa applicato è il  $Q_{1,k}$ , ossia il mezzo convenzionale da 600kN a due assi da 300 kN ognuno (carico tandem), con interasse di 1,20m lungo il senso di marcia e di larghezza 2,40m (comprese le dimensioni delle impronte) e ove possibile, il carico ripartito  $q_{1,k}$  da 9kN/m<sup>2</sup>.

Tale carico viene posizionato ortogonalmente all'asse del sottopasso e considerato ripartito, sia in direzione longitudinale che trasversale, con una angolo di diffusione di 30° attraverso il rilevato stradale, e 45° sino al piano medio della soletta superiore.

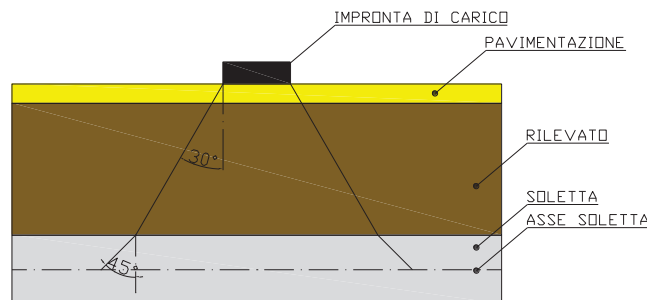


Figura 3 – Diffusione impronta di carico

In direzione trasversale, quale base collaborante viene considerato un valore pari alla larghezza di ingombro dello schema di carico uguale a 2,40m aumentata dello spessore di diffusione del carico.

Limitando la diffusione del carico lato seconda colonna di carico a 0,30m (come in Fig.4) la

In direzione longitudinale si individuano due ingombri, il primo vale se la lunghezza della soletta superiore è minore della lunghezza di diffusione longitudinale del carico, mentre se la lunghezza della soletta superiore è maggiore della lunghezza di diffusione longitudinale del carico:

larghezza di diffusione trasversale diventa:

$$B_T = 2,40 + 0,3 + (H_r * \text{tg}30^\circ + S_{psolsup}/2)$$

Ingombro longitudinale 1:

$$L_{L1} = 1,60 + 2 * (H_r * \text{tg}30^\circ + S_{psolsup}/2)$$

Ingombro longitudinale 2:

$$L_{L2} = 1,60 + 2 * (H_r + S_{psolsup}/2) * \text{tg}30^\circ$$

Se  $B+2S_{ppie} \geq L_{L1}$   $L_L = L_{L1}$  altrimenti  $L_L = L_{L2}$ .

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Carico medio uniforme:

$$Q_{1k,dis} = 600 / (B_T * L_L) \quad \text{kN/m}^2 \quad [\text{QM01}]$$

Carico ripartito:

$$q_{1k,dis} = 9 \text{ kN/m}^2 \quad \text{kN/m}^2 \quad [\text{QM02}]$$

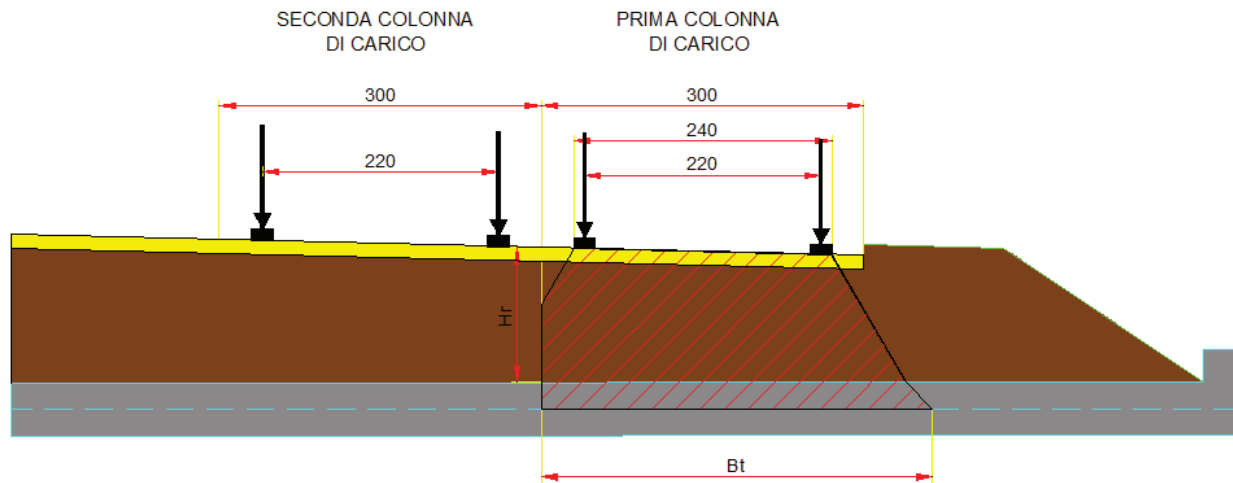


Figura 4 – Diffusione trasversale del carico mobile

## 7.4 Spinta del sovraccarico sul rilevato

In accordo con quanto riportato nella circolare n°617 2 febbraio 2009 al §5.1.3.3.7.1, il sovraccarico da considerare sul terrapieno adiacente la parete dello scatolare, è quello generato dallo schema di carico 1, dove il carico tandem è sostituito da un carico uniformemente distribuito.

Il carico tandem trasformato in carico uniformemente distribuito assume il valore  $2 * Q_{1,k} / (3 * 2,2) = 90,91 \text{ kN/m}^2$ .

Il carico uniformemente distribuito  $q_{ik} = 9 \text{ kN/m}^2$  viene sommato al carico tandem distribuito.

Mettendo in conto il ricoprimento con rilevato della struttura, il quale contribuisce a diffondere il carico fino al piano di estradosso soletta, il carico distribuito da utilizzare per il calcolo delle spinte agenti sulle pareti dello scatolare risulta  $(2 * Q_{1,k}) / ((3 + H_r * \text{tg} 30^\circ) * (2,2 + 2 * H_r * \text{tg} 30^\circ))$ . Schema di carico utilizzato a ridosso del rilevato (direzione asse corsia)

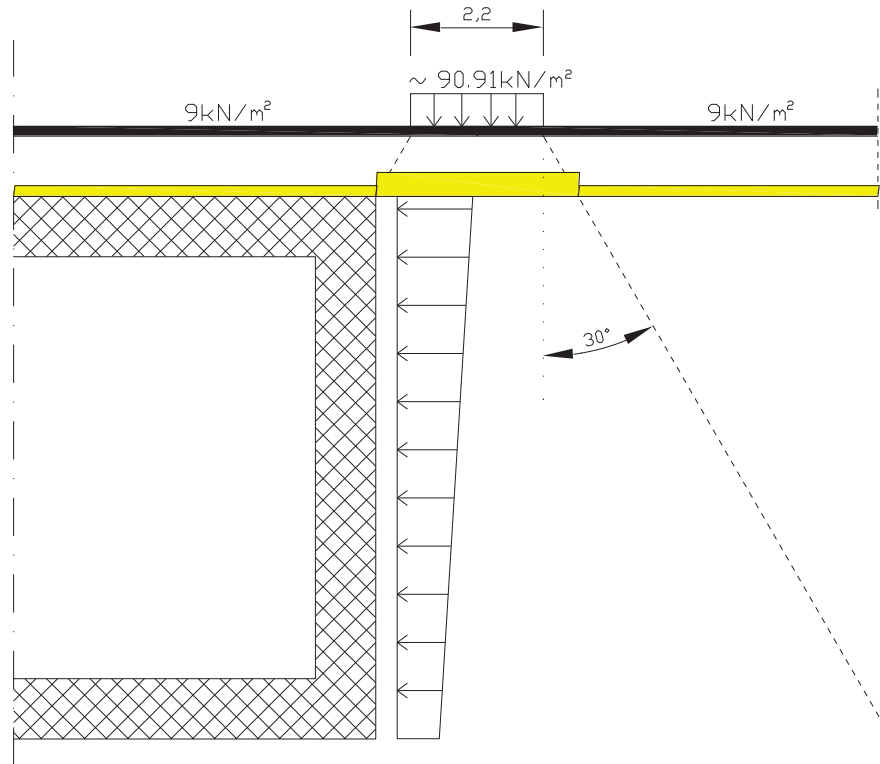
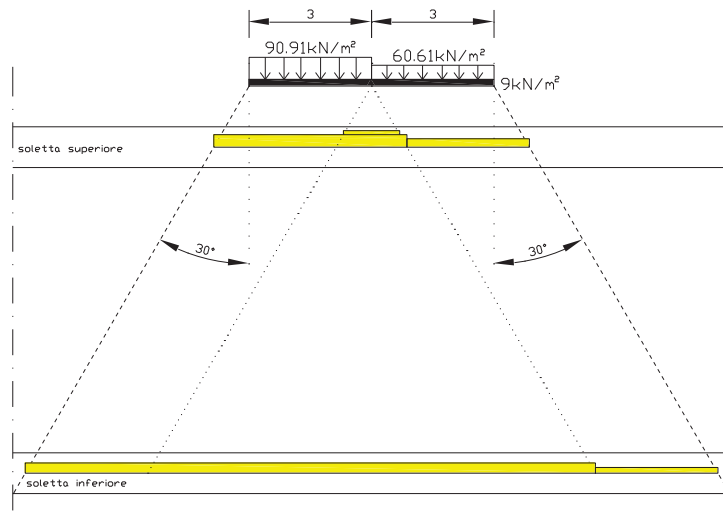
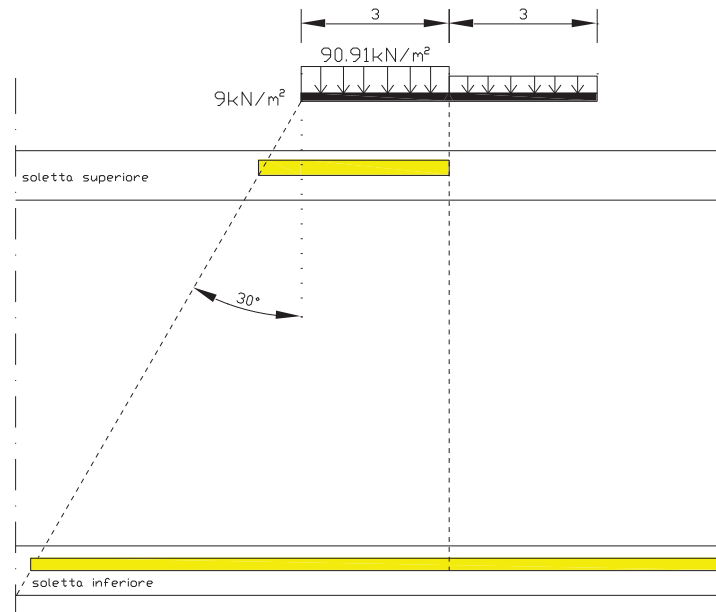


Figura 5 – Spinta del sovraccarico sul rilevato

Utilizzando due colonne di carico, e la ripartizione trasversale del carico di superficie distribuito, si ottiene quanto riportato nell'immagine seguente:



Per il calcolo delle azioni agenti sulle pareti dello scatolare, si considera il carico distribuito dovuto alla colonna di carico 1, limitando la diffusione del carico sul lato della seconda colonna di carico come schema seguente:



Tale distribuzione di carico fornisce alle pareti una spinta variabile lungo l'altezza, con intensità nei nodi superiore e inferiore pari a (asse solette):

$$\begin{aligned} \sigma_{1v,sup} &= (2 \cdot Q_{1,k}) / ((3 + (H_r + S_{psolsup}/2) \cdot \operatorname{tg} 30^\circ) \cdot (2,2 + 2 \cdot (H_r + S_{psolsup}/2) \cdot \operatorname{tg} 30^\circ)) && \text{kN/m}^2 \\ \sigma_{2v,sup} &= (q_{1k} \cdot 3) / (3 + (H_r + S_{psolsup}) \cdot \operatorname{tg} 30^\circ) && \text{kN/m}^2 \\ q'_{acc,sup} &= (\sigma_{1v,sup} + \sigma_{2v,sup}) \cdot K_0 && \text{kN/m}^2 \text{ [SQMS/D]} \end{aligned}$$

$$\begin{aligned} \sigma_{1v,inf} &= (2 \cdot Q_{1,k}) / ((3 + (H_r + S_{psolsup}/2 + S_{psolinf}/2 + H) \cdot \operatorname{tg} 30^\circ) \cdot (2,2 + 2 \cdot \operatorname{tg} 30^\circ \cdot (H_r + S_{psolsup}/2 + S_{psolinf}/2 + H))) && \text{kN/m}^2 \\ \sigma_{2v,inf} &= (q_{1k} \cdot 3) / (3 + (H_r + S_{psolsup}/2 + S_{psolinf}/2 + H) \cdot \operatorname{tg} 30^\circ) && \text{kN/m}^2 \\ q'_{acc,inf} &= (\sigma_{1v,inf} + \sigma_{2v,inf}) \cdot 0,384 && \text{kN/m}^2 \text{ [SQMS/D]} \end{aligned}$$

## 7.5 Frenatura

In accordo con il § 5.1.3.5 del D.M. 14-01-2008 e § 4.4.1 di UNI EN 1991-2:2005 il carico frenante di normativa ( $q_3$ ) è funzione del carico verticale totale agente sulla corsia convenzionale n.1, il quale viene ripartito sulla larghezza collaborante ( $L$ ) e sulla larghezza dello scatolare (CDC 13-14):


$$\text{Carico frenante} \quad q_3 = 0,60 \cdot (2 \cdot Q_{1,k}) + 0,10 \cdot q_{1k} \cdot w_1 \cdot L \quad \text{kN}$$

L'azione di cui sopra, viene distribuita sulla soletta superiore dello scatolare; il valore della frenatura equivalente da applicare alla soletta, si ottiene distribuendo il valore del carico frenante, alla lunghezza dello scatolare e alla larghezza di diffusione del carico ( $L_L$ ), con la seguente relazione:

$$q_{3,dis} = q_3 / (L \cdot L_L) \quad \text{kN/m}^2 \quad \text{[FA01]}$$

## 7.6 Azioni termiche

In accordo con il § 3.5 del D.M. 14-01-2008 sono stati considerati gli effetti dovuti alle variazioni termiche. In particolare, è stata considerata una variazione termica uniforme di  $\pm 10^\circ\text{C}$  (denominata TC01 e TC02) sulla soletta

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superiore ed un salto termico di 5°C (denominato TV01 e TV02), analizzando i due casi di intradosso più caldo dell'estradosso e viceversa, con andamento lineare nello spessore della soletta superiore .

Per il coefficiente di dilatazione termica si assume:

$$\alpha = 10 \cdot 10^{-6} = 0.00001 \text{ } ^\circ\text{C}^{-1}$$

## 7.7 Ritiro

I fenomeni da ritiro sulla soletta superiore sono tenuti in conto tramite l'applicazione di una variazione uniforme  $\Delta T'$  tale da generare 1/3 della deformazione totale da ritiro. In particolare la riduzione ad 1/3 degli effetti del ritiro deriva dal fatto che le deformazioni da ritiro si sviluppano in tempi molto lunghi (in contemporanea al fluage che riduce le sollecitazioni coattive derivanti da deformazioni imposte).

$$\Delta T_{\text{rit}} = \varepsilon_{cs} / 3 \times \alpha_t \text{ (da assumersi con il segno - : raffreddamento)}$$

Il valore della deformazione totale da ritiro viene calcolato utilizzando le formule di cui al par 11.2.10.6 delle NTC.

$$\varepsilon_{cs} = \varepsilon_{cd} + \varepsilon_{ca}$$

dove:

$\varepsilon_{cs}$  = deformazione totale per ritiro ,

$\varepsilon_{cd}$  = deformazione per ritiro da essiccamento ,

$\varepsilon_{ca}$  = deformazione per ritiro autogeno ,

Il termine  $\varepsilon_{cd}$  (valutato a tempo infinito) è funzione dell'umidità relativa (U) , della resistenza del calcestruzzo ( $f_{ck}$ ) e dello spessore fittizio del manufatto ( $h_0$ ) , secondo i parametri  $k_h$  e  $\varepsilon_{c0}$  ricavabili dalle tabelle 11.2.Va e 11.2.Vb delle NTC. Nel caso in esame risulta:

$$f_{ck} = 28 \text{ MPa}$$

$$\text{Umidità relativa} = U = 70 \%$$

$A_c$  = area trasversale passo uomo

$u$  = perimetro della sezione esposta all'aria

$$h_0 = \text{spessore fittizio} = 2A_c/u$$

si deduce dalla tabella 11.2.Va  $\varepsilon_{c0}$

si deduce dalla tabella 11.2.Vb  $k_h$

$$\text{si calcola quindi } \varepsilon_{cd,\infty} = k_h \times \varepsilon_{c0}$$

Il termine  $\varepsilon_{ca}$  è funzione della resistenza a compressione del calcestruzzo secondo la formula seguente:

$$\varepsilon_{ca,\infty} = -2.5 (f_{ck} - 10) \times 10^{-6}$$

Risulta quindi una variazione termica uniforme :

$$\Delta T_{\text{rit}} = (\varepsilon_{cd} + \varepsilon_{ca}) / 3 \times \alpha_t \text{ [ } ^\circ\text{C} \text{]}$$

[RIT]

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## 7.8 Azione sismica

### Stato limite di salvaguardia della vita (SLV)

La risultante delle forze inerziali orizzontali indotte dal sisma viene valutata con la seguente espressione:

$$F_h = P^* k_h$$

$$k_h = \beta_m \cdot \frac{a_{\text{max}}}{g}$$

$$\text{(SLV)} \quad k_h = \beta_m \cdot \frac{a_{\text{max}}}{g} \quad ; \quad k_v = 0.5 k_h$$

P = peso proprio;

k = coefficienti sismici;

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Si può ritenere che la struttura debba mantenere sotto l'azione sismica un comportamento elastico, assimilando l'opera scatolare alla categoria delle spalle da ponte e rientrando così tra le opere che si muovono con il terreno; queste categorie di opere non subiscono le amplificazioni dell'accelerazione del suolo.

Per tener conto dell'incremento di spinta del terreno dovuta al sisma si fa riferimento al metodo di Wood, in cui l'incremento di spinta sismica  $\Delta P_d$  per la condizione a riposo viene valutato:

$$\Delta P_d = S \cdot a_g / g \cdot \gamma \cdot h_{tot}^2$$

Ai fini delle azioni orizzontali :

- Spinta inerziale sulla soletta superiore:

$$(S_{psolsup} \cdot \gamma_c + H_r \cdot \gamma_t) \cdot k_h \quad \text{kN/m}^2 \quad [\text{IS01}]$$

$$(S_{psolsup} \cdot \gamma_c + H_r \cdot \gamma_t) \cdot k_v \quad \text{kN/m}^2 \quad [\text{IS02}]$$

- Spinta inerziale sui piedritti:

$$(S_{ppie} \cdot \gamma_c) \cdot k_h \quad \text{kN/m}^2 \quad [\text{IS01}]$$

$$(S_{ppie} \cdot \gamma_c) \cdot k_v \quad \text{kN/m}^2 \quad [\text{IS02}]$$

- Sovraspinta sismica :

$$S \cdot a_g / g \cdot \gamma \cdot h_{tot} \quad \text{kN/m}^2 \quad [\text{SSTS}]$$

## 7.9 Riassunto condizioni di carico e Combinazioni di carico

Al fine di determinare le combinazioni come da norma (§3.2 (NT)), si definisce la classificazione delle azioni e le combinazioni allo SLU e SLE.

Classificazione delle azioni agenti sulla struttura.

condizione per sap2000	n°	condizioni per combinazioni di carico	n°
PPST	1	PPST	1
PPNS	2	PPNS	2
ST1S	4	SK0S = ST1S + ST2S	4
ST2S	5	SKAS = ST2S + ST3S	5
ST3S	6	SK0D = ST1D + ST2D	6
ST4S	7	SKAD = ST2D + ST3D	7
ST1D	8	SK0SG = ST1SG + ST2SG	4
ST2D	9	SKASG = ST2SG + ST3SG	5
ST3D	10	SK0DG = ST1DG + ST2DG	6
ST4D	11	SKADG = ST2DG + ST3DG	7
ST1SG	12	SWS = SW1S + SW2S	8
ST2SG	13	SWD = SW1D + SW2D	9
ST3SG	14	SA	10
ST4SG	15	QM01	11
ST1DG	16	QM02	12
ST2DG	17	SQMS	13
ST3DG	18	SQMD	14
ST4DG	19	SQMSG	15
SW1S	20	SQMDG	16
SW2S	21	FA01	17
SW1D	22	TC01	18
SW2D	23	TC02	19
SA	24	TV01	20
QM01	25	TV02	21

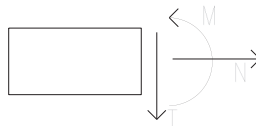
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QM02	26	RIT	22
SQMS	27	IS01	23
SQMD	28	SSTS	24
SQMSG	29	IS02	23
SQMDG	30		
FA01	31		
TC01	32		
TC02	33		
TV01	34		
TV02	35		
RIT	36		
IS01	37		
SSTS	38		
IS02	39		

Per un esame più dettagliato dei risultati del calcolo elettronico si rimanda agli output allegati.  
Le convenzioni adottate per le sollecitazioni di segno positivo sono le seguenti:



Nelle verifiche di seguito riportate le combinazioni di calcolo considerate sono riportate nella tabella seguente. Si fa notare che le voci riportate in prima riga sono le condizioni di carico descritte nei paragrafi precedenti, e le relative etichette sono desumibili affianco a ciascuna descrizione della condizione.

		PPST	PPNS	SK0S	SKAS	SW2S	SK0D	SKAD	SWD	SA	QM01	QM02	SQMS	SQMD	FA01	TC01	TC02	TV01	TV02	RIT
	1	1.35	1.35	1.35		1.35	1.35		1.35	1.35										
	2	1.35	1.35		1.00	1.00		1.00	1.00	1.35										
	3	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.35	1.35								
	4	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.35	1.35	1.35							
	5	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.35	1.35	1.35	1.35						
	6	1.00	1.00	1.35		1.35		1.00	1.00	1.00				1.35						
	7	1.00	1.00	1.35		1.35	1.35		1.35	1.00				1.35	1.35					
	8	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01		1.35					
	9	1.35	1.35	1.35		1.35	1.35		1.35	1.35						1.20				
	10	1.35	1.35		1.00	1.00		1.00	1.00	1.35						1.20				
	11	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.35	1.35				0.72				
	12	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.35	1.35	1.35			0.72				
	13	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.35	1.35	1.35	1.35		0.72				
	14	1.00	1.00	1.35		1.35		1.00	1.00	1.00				1.35		0.72				
	15	1.00	1.00	1.35		1.35	1.35		1.35	1.00				1.35	1.35	0.72				
	16	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01		1.35	0.72				
	17	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01				1.20				
	18	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01			1.20				
	19	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01		1.20				
	20	1.00	1.00	1.35		1.35		1.00	1.00	1.00				1.01		1.20				
	21	1.00	1.00	1.35		1.35	1.35		1.35	1.00				1.01	1.01	1.20				
	22	1.35	1.35	1.35		1.35	1.35		1.35	1.35						1.20		0.72		
	23	1.35	1.35		1.00	1.00		1.00	1.00	1.35						1.20		0.72		
	24	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01				1.20		0.72		
	25	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01			1.20		0.72		
	26	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01		1.20		0.72		
	27	1.00	1.00	1.35		1.35		1.00	1.00	1.00				1.01		1.20		0.72		
	28	1.00	1.00	1.35		1.35	1.35		1.35	1.00				1.01	1.01	1.20		0.72		
	29	1.35	1.35	1.35		1.35	1.35		1.35	1.35						1.20			0.72	
	30	1.35	1.35		1.00	1.00		1.00	1.00	1.35						1.20			0.72	
	31	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01				1.20			0.72	
	32	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01			1.20			0.72	
	33	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01		1.20			0.72	
	34	1.00	1.00	1.35		1.35		1.00	1.00	1.00				1.01		1.20			0.72	
	35	1.00	1.00	1.35		1.35	1.35		1.35	1.00				1.01	1.01	1.20			0.72	
	36	1.35	1.35	1.35		1.35	1.35		1.35	1.35						1.20			0.72	
	37	1.35	1.35		1.00	1.00		1.00	1.00	1.35						1.20			0.72	
	38	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01				1.20			0.72	
	39	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01			1.20			0.72	
	40	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01		1.20			0.72	
	41	1.00	1.00	1.35		1.35		1.00	1.00	1.00				1.01		1.20			0.72	
	42	1.00	1.00	1.35		1.35	1.35		1.35	1.00				1.01	1.01	1.20			0.72	

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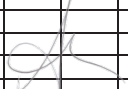


	PPST	PPNS	SK0S	SKAS	SW2S	SK0D	SKAD	SWD	SA	QM01	QM02	SQMS	SQMD	FA01	TC01	TC02	TV01	TV02	RIT
43	1.35	1.35	1.35		1.35	1.35		1.35	1.35							1.20			
44	1.35	1.35		1.00	1.00		1.00	1.00	1.35							1.20			
45	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.35	1.35					0.72			
46	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.35	1.35	1.35				0.72			
47	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.35	1.35	1.35	1.35			0.72			
48	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.35				0.72			
49	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.35	1.35			0.72			
50	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01		1.35		0.72			
51	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01					1.20			
52	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01				1.20			
53	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01			1.20			
54	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01				1.20			
55	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01			1.20			
56	1.35	1.35	1.35		1.35	1.35		1.35	1.35							1.20	0.72		
57	1.35	1.35		1.00	1.00		1.00	1.00	1.35							1.20	0.72		
58	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01					1.20	0.72		
59	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01				1.20	0.72		
60	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01			1.20	0.72		
61	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01				1.20	0.72		
62	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01			1.20	0.72		
63	1.35	1.35	1.35		1.35	1.35		1.35	1.35							1.20		0.72	
64	1.35	1.35		1.00	1.00		1.00	1.00	1.35							1.20		0.72	
65	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01					1.20		0.72	
66	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01				1.20		0.72	
67	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01			1.20		0.72	
68	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01				1.20		0.72	
69	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01			1.20		0.72	
70	1.35	1.35	1.35		1.35	1.35		1.35	1.35							1.20			0.72
71	1.35	1.35		1.00	1.00		1.00	1.00	1.35							1.20			0.72
72	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01					1.20			0.72
73	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01				1.20			0.72
74	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01			1.20			0.72
75	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01				1.20			0.72
76	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01			1.20			0.72
77	1.35	1.35	1.35		1.35	1.35		1.35	1.35								1.20		
78	1.35	1.35		1.00	1.00		1.00	1.00	1.35								1.20		
79	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.35	1.35					0.72			
80	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.35	1.35	1.35					0.72		
81	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.35	1.35	1.35	1.35				0.72		
82	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.35					0.72		
83	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.35	1.35				0.72		
84	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01		1.35			0.72		
85	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01						1.20		
86	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01					1.20		
87	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01				1.20		
88	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01					1.20		
89	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01				1.20		
90	1.35	1.35	1.35		1.35	1.35		1.35	1.35						0.72		1.20		
91	1.35	1.35		1.00	1.00		1.00	1.00	1.35							0.72		1.20	
92	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01					0.72		1.20	
93	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01				0.72		1.20	
94	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01			0.72		1.20	
95	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01				0.72		1.20	
96	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01			0.72		1.20	
97	1.35	1.35	1.35		1.35	1.35		1.35	1.35							0.72	1.20		
98	1.35	1.35		1.00	1.00		1.00	1.00	1.35							0.72	1.20		
99	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01					0.72	1.20		
100	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01				0.72	1.20		
101	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01			0.72	1.20		
102	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01				0.72	1.20		
103	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01			0.72	1.20		
104	1.35	1.35	1.35		1.35	1.35		1.35	1.35								1.20		0.72
105	1.35	1.35		1.00	1.00		1.00	1.00	1.35								1.20		0.72
106	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01						1.20		0.72
107	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01					1.20		0.72
108	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01				1.20		0.72
109	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01					1.20		0.72
110	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01				1.20		0.72
111	1.35	1.35	1.35		1.35	1.35		1.35	1.35									1.20	
112	1.35	1.35		1.00	1.00		1.00	1.00	1.35									1.20	
113	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.35	1.35							0.72	
114	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.35	1.35	1.35						0.72	
115	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.35	1.35	1.35	1.35					0.72	
116	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.35							0.72
117	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.35	1.35						0.72
118	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01		1.35					0.72
119	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01								1.20
120	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01							1.20
121	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01						1.20
122	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01							1.20
123	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01						1.20
124	1.35	1.35	1.35		1.35	1.35		1.35	1.35							0.72			1.20
125	1.35	1.35		1.00	1.00		1.00	1.00	1.35							0.72			1.20

	PPST	PPNS	SK0S	SKAS	SW2S	SK0D	SKAD	SWD	SA	QM01	QM02	SQMS	SQMD	FA01	TC01	TC02	TV01	TV02	RIT
126	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01				0.72			1.20	
127	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01			0.72			1.20	
128	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01		0.72			1.20	
129	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01			0.72			1.20	
130	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01		0.72			1.20	
131	1.35	1.35	1.35		1.35	1.35		1.35	1.35							0.72		1.20	
132	1.35	1.35		1.00	1.00		1.00	1.00	1.35							0.72		1.20	
133	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01					0.72		1.20	
134	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01				0.72		1.20	
135	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01			0.72		1.20	
136	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01				0.72		1.20	
137	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01			0.72		1.20	
138	1.35	1.35	1.35		1.35	1.35		1.35	1.35									1.20	0.72
139	1.35	1.35		1.00	1.00		1.00	1.00	1.35									1.20	0.72
140	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01							1.20	0.72
141	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01						1.20	0.72
142	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01					1.20	0.72
143	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01						1.20	0.72
144	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01					1.20	0.72
145	1.35	1.35	1.35		1.35	1.35		1.35	1.35									1.20	
146	1.35	1.35		1.00	1.00		1.00	1.00	1.35									1.20	
147	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.35	1.35							1.20	0.72
148	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.35	1.35	1.35						1.20	0.72
149	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.35	1.35	1.35	1.35					1.20	0.72
150	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.35						1.20	0.72
151	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.35	1.35					1.20	0.72
152	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01		1.35				1.20	0.72
153	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01	1.01						1.20	
154	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01						1.20	
155	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01					1.20	
156	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01						1.20	
157	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01					1.20	
158	1.35	1.35	1.35		1.35	1.35		1.35	1.35							0.72		1.20	
159	1.35	1.35		1.00	1.00		1.00	1.00	1.35							0.72		1.20	
160	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01					0.72		1.20	
161	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01				0.72		1.20	
162	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01			0.72		1.20	
163	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01				0.72		1.20	
164	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01			0.72		1.20	
165	1.35	1.35	1.35		1.35	1.35		1.35	1.35							0.72		1.20	
166	1.35	1.35		1.00	1.00		1.00	1.00	1.35							0.72		1.20	
167	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01					0.72		1.20	
168	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01				0.72		1.20	
169	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01			0.72		1.20	
170	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01				0.72		1.20	
171	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01			0.72		1.20	
172	1.35	1.35	1.35		1.35	1.35		1.35	1.35								0.72	1.20	
173	1.35	1.35		1.00	1.00		1.00	1.00	1.35							0.72		1.20	
174	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01					0.72		1.20	
175	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01				0.72		1.20	
176	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01			0.72		1.20	
177	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01				0.72		1.20	
178	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01			0.72		1.20	
179	1.35	1.35	1.35		1.35	1.35		1.35	1.35							0.72		1.20	
180	1.35	1.35	1.35		1.35	1.35		1.35	1.35								0.72	1.20	
181	1.35	1.35		1.00	1.00		1.00	1.00	1.35								0.72	1.20	
182	1.35	1.35		1.00	1.00		1.00	1.00	1.35	1.01	1.01						0.72	1.20	
183	1.35	1.35	1.35		1.35		1.00	1.00	1.35	1.01	1.01	1.01					0.72	1.20	
184	1.35	1.35	1.35		1.35	1.35		1.35	1.35	1.01	1.01	1.01	1.01				0.72	1.20	
185	1.00	1.00	1.35		1.35		1.00	1.00	1.00			1.01					0.72	1.20	
186	1.00	1.00	1.35		1.35	1.35		1.35	1.00			1.01	1.01				0.72	1.20	
187	1.35	1.35	1.35		1.35	1.35		1.35	1.35								0.72	1.20	
	PPST	PPNS	SK0S	SKAS	SW2S	SK0D	SKAD	SWD	SA	QM01	QM02	SQMS	SQMD	FA01	TC01	TC02	TV01	TV02	RIT
1	1.00	1.00	1.00		1.00	1.00		1.00	1.00										
2	1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00								
3	1.00	1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00							
4	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00						
5	1.00	1.00	1.00		1.00		1.00	1.00	1.00			1.00							
6	1.00	1.00	1.00		1.00	1.00		1.00	1.00			1.00	1.00						
7	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75		1.00					
8	1.00	1.00		1.00	1.00		1.00	1.00	1.00						1.00				
9	1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00				0.60				
10	1.00	1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00			0.60				
11	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00		0.60				
12	1.00	1.00	1.00		1.00		1.00	1.00	1.00			1.00			0.60				
13	1.00	1.00	1.00		1.00	1.00		1.00	1.00			1.00	1.00		0.60				
14	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75		1.00	0.60				
15	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75				1.00				
16	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75			1.00				
17	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75		1.00				
18	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75			1.00				
19	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75		1.00				

APPROVATO SDR

Società di Progetto  
Brebini SpA



	PPST	PPNS	SK0S	SKAS	SW2S	SK0D	SKAD	SWD	SA	QM01	QM02	SQMS	SQMD	FA01	TC01	TC02	TV01	TV02	RIT
20	1.00	1.00		1.00	1.00		1.00	1.00	1.00						1.00		0.6		
21	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75				1.00		0.6		
22	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75			1.00		0.6		
23	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75		1.00		0.6		
24	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75	0.75		1.00		0.6		
25	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75		1.00		0.6		
26	1.00	1.00		1.00	1.00		1.00	1.00	1.00						1.00			0.6	
27	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75				1.00			0.6	
28	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75			1.00			0.6	
29	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75		1.00			0.6	
30	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75	0.75		1.00			0.6	
31	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75		1.00			0.6	
32	1.00	1.00		1.00	1.00		1.00	1.00	1.00						1.00				0.6
33	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75				1.00				0.6
34	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75			1.00				0.6
35	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75		1.00				0.6
36	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75	0.75		1.00				0.6
37	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75		1.00				0.6
38	1.00	1.00		1.00	1.00		1.00	1.00	1.00							1.00			
39	1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00				0.60				
40	1.00	1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00			0.60				
41	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00		0.60				
42	1.00	1.00	1.00		1.00		1.00	1.00	1.00				1.00		0.60				
43	1.00	1.00	1.00		1.00	1.00		1.00	1.00			1.00	1.00		0.60				
44	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75		1.00	0.60				
45	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75				1.00				
46	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75			1.00				
47	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75		1.00				
48	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75	0.75		1.00				
49	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75		1.00				
50	1.00	1.00		1.00	1.00		1.00	1.00	1.00						1.00	0.6			
51	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75				1.00	0.6			
52	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75			1.00	0.6			
53	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75		1.00	0.6			
54	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75	0.75		1.00	0.6			
55	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75		1.00	0.6			
56	1.00	1.00		1.00	1.00		1.00	1.00	1.00						1.00	0.6			
57	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75				1.00	0.6			
58	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75			1.00	0.6			
59	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75		1.00	0.6			
60	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75	0.75		1.00	0.6			
61	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75		1.00	0.6			
62	1.00	1.00		1.00	1.00		1.00	1.00	1.00						1.00				0.6
63	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75				1.00				0.6
64	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75			1.00				0.6
65	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75		1.00				0.6
66	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75	0.75		1.00				0.6
67	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75		1.00				0.6
68	1.00	1.00		1.00	1.00		1.00	1.00	1.00							1.00			
69	1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00					0.60			
70	1.00	1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00				0.60			
71	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00			0.60			
72	1.00	1.00	1.00		1.00		1.00	1.00	1.00				1.00			0.60			
73	1.00	1.00	1.00		1.00	1.00		1.00	1.00			1.00	1.00			0.60			
74	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75		1.00		0.60			
75	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75					1.00			
76	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75				1.00			
77	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75			1.00			
78	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75	0.75			1.00			
79	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75			1.00			
80	1.00	1.00		1.00	1.00		1.00	1.00	1.00						0.60		1.00		
81	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75				0.60		1.00		
82	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75			0.60		1.00		
83	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75		0.60		1.00		
84	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75	0.75		0.60		1.00		
85	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75		0.60		1.00		
86	1.00	1.00		1.00	1.00		1.00	1.00	1.00							0.6	1.00		
87	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75					0.6	1.00		
88	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75			0.6	1.00			
89	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75		0.6	1.00			
90	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75	0.75		0.6	1.00			
91	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75		0.6	1.00			
92	1.00	1.00		1.00	1.00		1.00	1.00	1.00						1.00				0.6
93	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75								0.6
94	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75							0.6
95	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75						0.6
96	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75	0.75			1.00			0.6
97	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75			1.00			0.6
98	1.00	1.00		1.00	1.00		1.00	1.00	1.00							1.00			
99	1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00					0.60			
100	1.00	1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00				0.60			
101	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00			0.60			
102	1.00	1.00	1.00		1.00		1.00	1.00	1.00			1.00				0.60			

APPROVATO SDP

	PPST	PPNS	SK0S	SKAS	SW2S	SK0D	SKAD	SWD	SA	QM01	QM02	SQMS	SQMD	FA01	TC01	TC02	TV01	TV02	RIT
103	1.00	1.00	1.00		1.00	1.00		1.00	1.00			1.00	1.00						0.60
104	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75		1.00					0.60
105	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75								1.00
106	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75							1.00
107	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75						1.00
108	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75							1.00
109	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75						1.00
110	1.00	1.00		1.00	1.00		1.00	1.00	1.00						0.60				1.00
111	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75				0.60				1.00
112	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75			0.60				1.00
113	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75		0.60				1.00
114	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75			0.60				1.00
115	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75		0.60				1.00
116	1.00	1.00		1.00	1.00		1.00	1.00	1.00							0.6			1.00
117	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75					0.6			1.00
118	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75				0.6			1.00
119	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75			0.6			1.00
120	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75				0.6			1.00
121	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75			0.6			1.00
122	1.00	1.00		1.00	1.00		1.00	1.00	1.00									1.00	0.6
123	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75							1.00	0.6
124	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75						1.00	0.6
125	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75					1.00	0.6
126	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75						1.00	0.6
127	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75					1.00	0.6
128	1.00	1.00		1.00	1.00		1.00	1.00	1.00										1.00
129	1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00								0.60
130	1.00	1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00							0.60
131	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00						0.60
132	1.00	1.00	1.00		1.00		1.00	1.00	1.00				1.00						0.60
133	1.00	1.00	1.00		1.00	1.00		1.00	1.00				1.00	1.00					0.60
134	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75		1.00					0.60
135	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75								1.00
136	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75							1.00
137	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75						1.00
138	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75							1.00
139	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75						1.00
140	1.00	1.00		1.00	1.00		1.00	1.00	1.00						0.60				1.00
141	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75				0.60				1.00
142	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75			0.60				1.00
143	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75		0.60				1.00
144	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75			0.60				1.00
145	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75		0.60				1.00
146	1.00	1.00		1.00	1.00		1.00	1.00	1.00							0.6			1.00
147	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75					0.6			1.00
148	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75				0.6			1.00
149	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75			0.6			1.00
150	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75				0.6			1.00
151	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75			0.6			1.00
152	1.00	1.00		1.00	1.00		1.00	1.00	1.00								0.6		1.00
153	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75						0.6		1.00
154	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75				0.6			1.00
155	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75			0.6			1.00
156	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75					0.6		1.00
157	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75				0.6		1.00
158	1.00	1.00		1.00	1.00		1.00	1.00	1.00									0.6	1.00
159	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75							0.6	1.00
160	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75						0.6	1.00
161	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75					0.6	1.00
162	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75						0.6	1.00
163	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75					0.6	1.00
	PPST	PPNS	SK0S	SKAS	SW2S	SK0D	SKAD	SWD	SA	QM01	QM02	SQMS	SQMD	FA01	TC01	TC02	TV01	TV02	RIT
1	1.00	1.00	1.00		1.00	1.00		1.00	1.00										
2	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75								
3	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75							
4	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75						
5	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75							
6	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75						
7	1.00	1.00		1.00	1.00		1.00	1.00	1.00						0.60				
8	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75				0.50				
9	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75			0.50				
10	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75		0.50				
11	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75			0.50				
12	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75		0.50				
13	1.00	1.00		1.00	1.00		1.00	1.00	1.00						0.60		0.50		
14	1.00	1.00		1.00	1.00		1.00	1.00	1.00						0.60		0.50		
15	1.00	1.00		1.00	1.00		1.00	1.00	1.00						0.60		0.50		
16	1.00	1.00		1.00	1.00		1.00	1.00	1.00							0.60		0.50	
17	1.00	1.00		1.00	1.00		1.00	1.00	1.00	0.75	0.75					0.50			
18	1.00	1.00	1.00		1.00		1.00	1.00	1.00	0.75	0.75	0.75				0.50			
19	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75	0.75	0.75			0.50			
20	1.00	1.00	1.00		1.00		1.00	1.00	1.00			0.75				0.50			
21	1.00	1.00	1.00		1.00	1.00		1.00	1.00			0.75	0.75			0.50			

APPROVATO SDR

Società di Progetto  
Bredemmi SpA

	PPST	PPNS	SK0S	SKAS	SW2S	SK0D	SKAD	SWD	SA	QM01	QM02	SQMS	SQMD	FA01	TC01	TC02	TV01	TV02	RIT
	22	1.00	1.00		1.00	1.00		1.00	1.00							0.60	0.50		
	23	1.00	1.00		1.00	1.00		1.00	1.00							0.60		0.50	
	24	1.00	1.00		1.00	1.00		1.00	1.00							0.60			0.50
	25	1.00	1.00		1.00	1.00		1.00	1.00								0.60		
	26	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75							0.50	
	27	1.00	1.00	1.00		1.00		1.00	1.00	0.75	0.75	0.75						0.50	
	28	1.00	1.00	1.00		1.00	1.00		1.00	0.75	0.75	0.75	0.75					0.50	
	29	1.00	1.00	1.00		1.00		1.00	1.00			0.75						0.50	
	30	1.00	1.00	1.00		1.00	1.00		1.00			0.75	0.75					0.50	
	31	1.00	1.00		1.00	1.00		1.00	1.00						0.50			0.60	
	32	1.00	1.00		1.00	1.00		1.00	1.00							0.50	0.60		
	33	1.00	1.00		1.00	1.00		1.00	1.00								0.60		0.50
	34	1.00	1.00		1.00	1.00		1.00	1.00									0.60	
	35	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75							0.50	
	36	1.00	1.00	1.00		1.00		1.00	1.00	0.75	0.75	0.75						0.50	
	37	1.00	1.00	1.00		1.00	1.00		1.00	0.75	0.75	0.75	0.75					0.50	
	38	1.00	1.00	1.00		1.00		1.00	1.00			0.75						0.50	
	39	1.00	1.00	1.00		1.00	1.00		1.00			0.75	0.75					0.50	
	40	1.00	1.00		1.00	1.00		1.00	1.00						0.50			0.60	
	41	1.00	1.00		1.00	1.00		1.00	1.00							0.50		0.60	
	42	1.00	1.00		1.00	1.00		1.00	1.00									0.60	0.50
	43	1.00	1.00		1.00	1.00		1.00	1.00										0.60
	44	1.00	1.00		1.00	1.00		1.00	1.00	0.75	0.75								0.50
	45	1.00	1.00	1.00		1.00		1.00	1.00	0.75	0.75	0.75							0.50
	46	1.00	1.00	1.00		1.00	1.00		1.00	0.75	0.75	0.75	0.75						0.50
	47	1.00	1.00	1.00		1.00		1.00	1.00			0.75							0.50
	48	1.00	1.00	1.00		1.00	1.00		1.00			0.75	0.75						0.50
	49	1.00	1.00		1.00	1.00		1.00	1.00							0.50			0.60
	50	1.00	1.00		1.00	1.00		1.00	1.00								0.50		0.60
	51	1.00	1.00		1.00	1.00		1.00	1.00								0.50	0.60	
	PPST	PPNS	SK0S	SKAS	SW2S	SK0D	SKAD	SWD	SA	QM01	QM02	SQMS	SQMD	FA01	TC01	TC02	TV01	TV02	RIT
SLE QUASI PERMANENTE	1	1.00	1.00		1.00	1.00	1.00		1.00	1.00						0.5			
	2	1.00	1.00		1.00	1.00	1.00		1.00	1.00						0.5			
	3	1.00	1.00		1.00	1.00	1.00		1.00	1.00						0.5			
	4	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50	
	5	1.00	1.00		1.00	1.00	1.00		1.00	1.00									0.50
	6	1.00	1.00		1.00	1.00	1.00		1.00	1.00									0.50
	7	1.00	1.00		1.00	1.00	1.00		1.00	1.00						0.50		0.50	
	8	1.00	1.00		1.00	1.00	1.00		1.00	1.00						0.50			0.50
	9	1.00	1.00		1.00	1.00	1.00		1.00	1.00						0.50			0.50
	10	1.00	1.00	1.00		1.00		1.00	1.00	1.00							0.5		
	11	1.00	1.00	1.00		1.00		1.00	1.00	1.00							0.5		
	12	1.00	1.00	1.00		1.00		1.00	1.00	1.00							0.5		
	13	1.00	1.00	1.00		1.00		1.00	1.00	1.00								0.50	
	14	1.00	1.00	1.00		1.00		1.00	1.00	1.00									0.50
	15	1.00	1.00	1.00		1.00		1.00	1.00	1.00									0.50
	16	1.00	1.00	1.00		1.00		1.00	1.00	1.00						0.50		0.50	
	17	1.00	1.00	1.00		1.00		1.00	1.00	1.00						0.50			0.50
	18	1.00	1.00	1.00		1.00		1.00	1.00	1.00						0.50			0.50
	PPST	PPNS	SK0S	SKAS	SW2S	SK0D	SKAD	SWD	SA	QM01	QM02	SQMS	SQMD	FA01	TC01	TC02	TV01	TV02	RIT
SLU GEO	1	1.00	1.00	1.00		1.00	1.00		1.00	1.00									
	2	1.00	1.00		1.00	1.00		1.00	1.00	1.15	1.15								
	3	1.00	1.00	1.00		1.00		1.00	1.00	1.15	1.15	1.15							
	4	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.15	1.15	1.15	1.15					
	5	1.00	1.00	1.00		1.00		1.00	1.00	0.86	0.86	0.86			1.15				
	6	1.00	1.00		1.00	1.00		1.00	1.00	1.15	1.15						0.60		
	7	1.00	1.00	1.00		1.00		1.00	1.00	1.15	1.15	1.15					0.60		
	8	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.15	1.15	1.15	1.15			0.60		
	9	1.00	1.00	1.00		1.00		1.00	1.00	0.86	0.86	0.86			1.15		0.60		
	10	1.00	1.00		1.00	1.00		1.00	1.00	0.86	0.86	0.86					1.00		
	11	1.00	1.00	1.00		1.00		1.00	1.00	0.86	0.86	0.86					1.00		
	12	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.86	0.86	0.86	0.86			1.00		
	13	1.00	1.00		1.00	1.00		1.00	1.00	1.15	1.15							0.60	
	14	1.00	1.00	1.00		1.00		1.00	1.00	1.15	1.15	1.15						0.60	
	15	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.15	1.15	1.15	1.15				0.60	
	16	1.00	1.00	1.00		1.00		1.00	1.00	0.86	0.86	0.86			1.15		0.60		
	17	1.00	1.00		1.00	1.00		1.00	1.00	0.86	0.86	0.86					1.00		
	18	1.00	1.00	1.00		1.00		1.00	1.00	0.86	0.86	0.86					1.00		
	19	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.86	0.86	0.86	0.86			1.00		
	20	1.00	1.00		1.00	1.00		1.00	1.00	1.15	1.15								0.60
	21	1.00	1.00	1.00		1.00		1.00	1.00	1.15	1.15	1.15							0.60
	22	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.15	1.15	1.15	1.15					0.60
	23	1.00	1.00	1.00		1.00		1.00	1.00	0.86	0.86	0.86			1.15				0.60
	24	1.00	1.00		1.00	1.00		1.00	1.00	0.86	0.86	0.86							0.60
	25	1.00	1.00	1.00		1.00		1.00	1.00	0.86	0.86	0.86							0.60
	26	1.00	1.00	1.00		1.00	1.00		1.00	1.00	0.86	0.86	0.86	0.86					0.60

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	PPST	PPNS	SK0S	SKAS	SW2S	SK0D	SKAD	SWD	SA	QM01	QM02	SQMS	SQMD	FA01	TC01	TC02	TV01	TV02	RIT	SSTS	IS01	IS02
SIS	1	1.00	1.00		1.00	1.00		1.00	1.00											1.00	1.00	0.30
	2	1.00	1.00		1.00	1.00		1.00	1.00							0.5				1.00	1.00	0.30
	3	1.00	1.00		1.00	1.00		1.00	1.00								0.5			1.00	1.00	0.30
	4	1.00	1.00		1.00	1.00		1.00	1.00									0.50		1.00	1.00	0.30

5	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50		1.00	1.00	0.30	
6	1.00	1.00		1.00	1.00	1.00		1.00	1.00									0.50	1.00	1.00	0.30	
7	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50		1.00	1.00	0.30	
8	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50		1.00	1.00	0.30	
9	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50		1.00	1.00	0.30	
10	1.00	1.00		1.00	1.00	1.00		1.00	1.00										1.00	1.00	-0.30	
11	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.5		1.00	1.00	-0.30	
12	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.5		1.00	1.00	-0.30	
13	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50		1.00	1.00	-0.30	
14	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50		1.00	1.00	-0.30	
15	1.00	1.00		1.00	1.00	1.00		1.00	1.00									0.50	1.00	1.00	-0.30	
16	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50		1.00	1.00	-0.30	
17	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50		1.00	1.00	-0.30	
18	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50		1.00	1.00	-0.30	
19	1.00	1.00		1.00	1.00	1.00		1.00	1.00										1.00	0.30	1.00	
20	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.5		1.00	0.30	1.00	
21	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.5		1.00	0.30	1.00	
22	1.00	1.00		1.00	1.00	1.00		1.00	1.00									0.50		1.00	0.30	1.00
23	1.00	1.00		1.00	1.00	1.00		1.00	1.00									0.50	1.00	0.30	1.00	
24	1.00	1.00		1.00	1.00	1.00		1.00	1.00										0.50	1.00	0.30	1.00
25	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50		1.00	0.30	1.00	
26	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50		1.00	0.30	1.00	
27	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50		1.00	0.30	1.00	
28	1.00	1.00		1.00	1.00	1.00		1.00	1.00										1.00	0.30	-1.00	
29	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.5		1.00	0.30	-1.00	
30	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.5		1.00	0.30	-1.00	
31	1.00	1.00		1.00	1.00	1.00		1.00	1.00									0.50		1.00	0.30	-1.00
32	1.00	1.00		1.00	1.00	1.00		1.00	1.00									0.50	1.00	0.30	-1.00	
33	1.00	1.00		1.00	1.00	1.00		1.00	1.00										0.50	1.00	0.30	-1.00
34	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50		1.00	0.30	-1.00	
35	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50		1.00	0.30	-1.00	
36	1.00	1.00		1.00	1.00	1.00		1.00	1.00								0.50		1.00	0.30	-1.00	

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## 7.10 Schemi di carico

Si riportano di seguito la modellazione dei carichi così come inserita nel programma ad elementi finiti Sap2000:

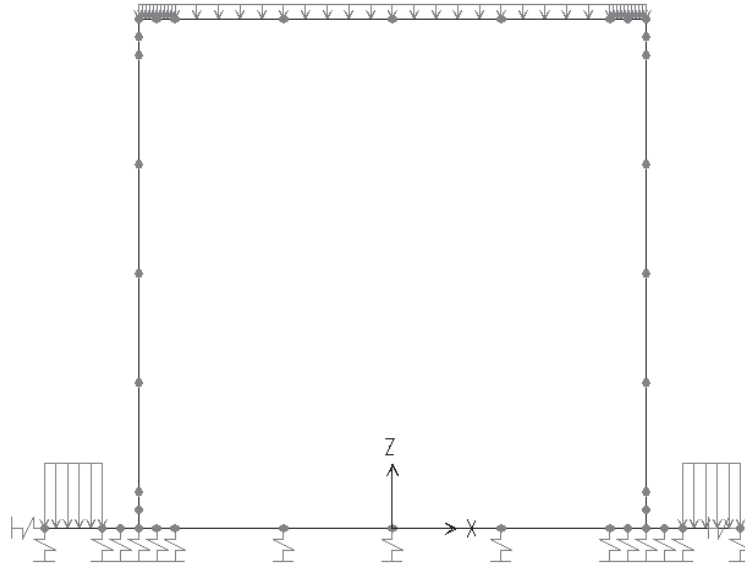


Figura 6 – PESO PROPRIO DELLA STRUTTURA E CARICHI PERMANENTI PORTATI

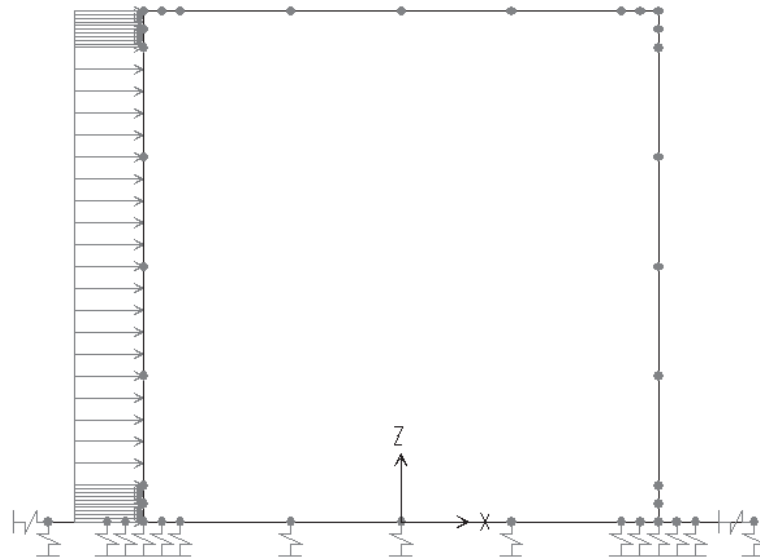


Figura 7 – SPINTA DELLE TERRE ST1S: spinta a riposo

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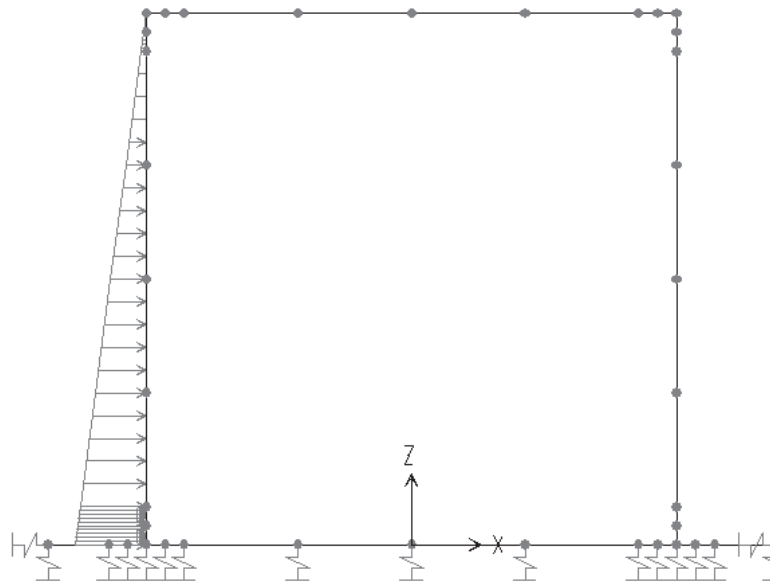


Figura 8 – SPINTA DELLE TERRE ST2S: spinta a riposo

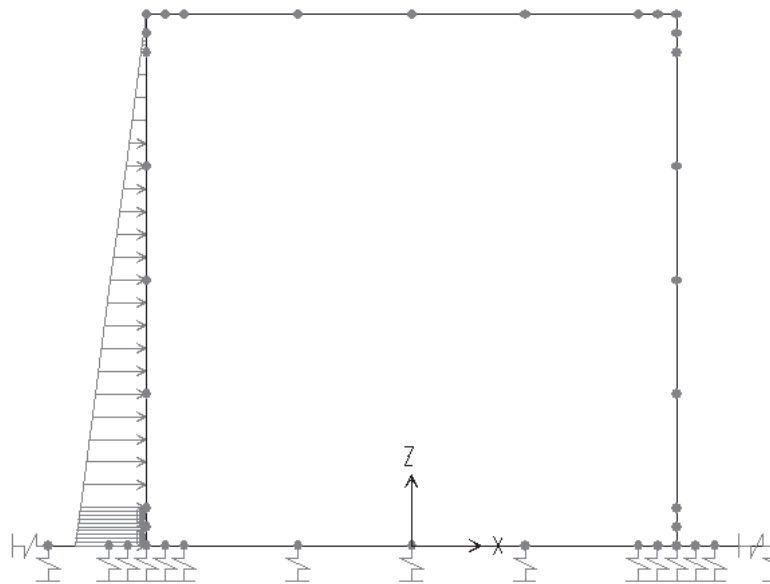


Figura 9 – SPINTA DELL'ACQUA SW2S

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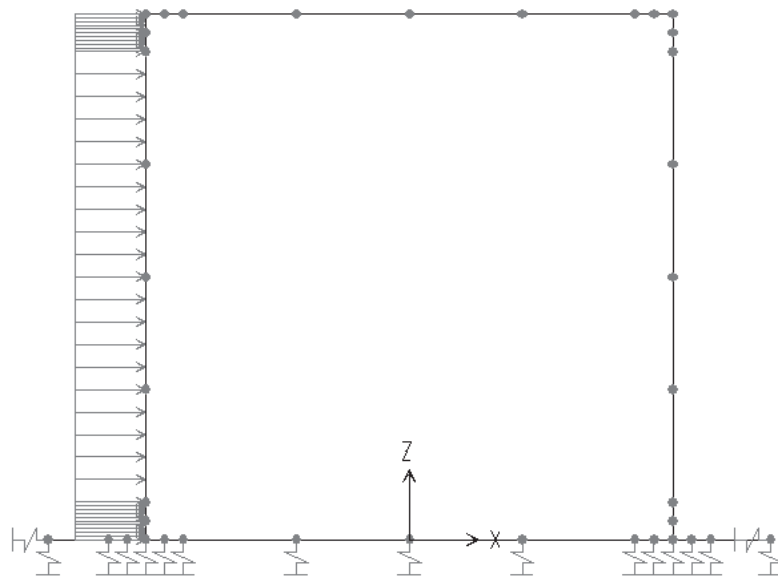


Figura 10 – SPINTA DELLE TERRE ST3S: spinta attiva

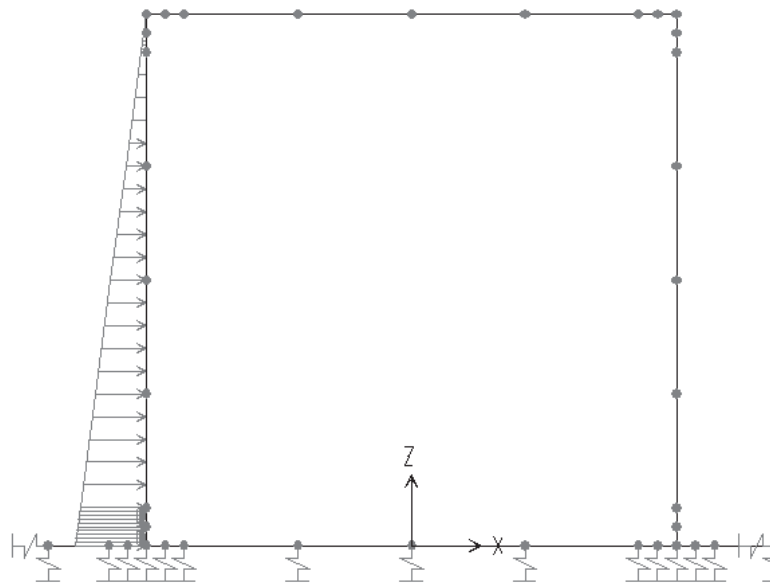


Figura 11 – SPINTA DELLE TERRE ST4S: spinta attiva

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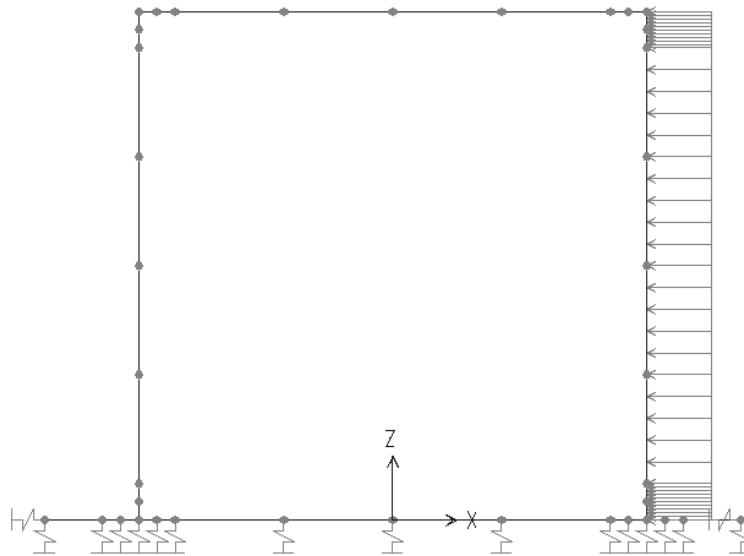


Figura 12 – SPINTA DELLE TERRE ST1D: spinta a riposo

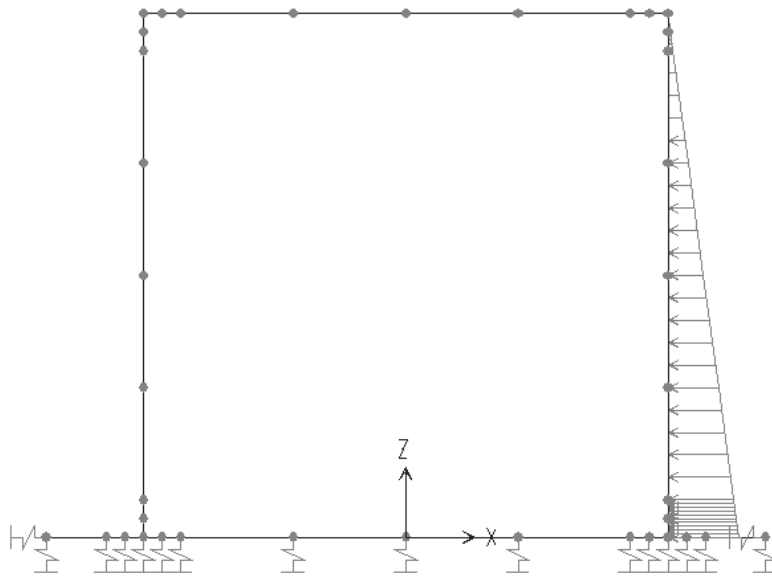


Figura 13 – SPINTA DELLE TERRE ST2D: spinta a riposo

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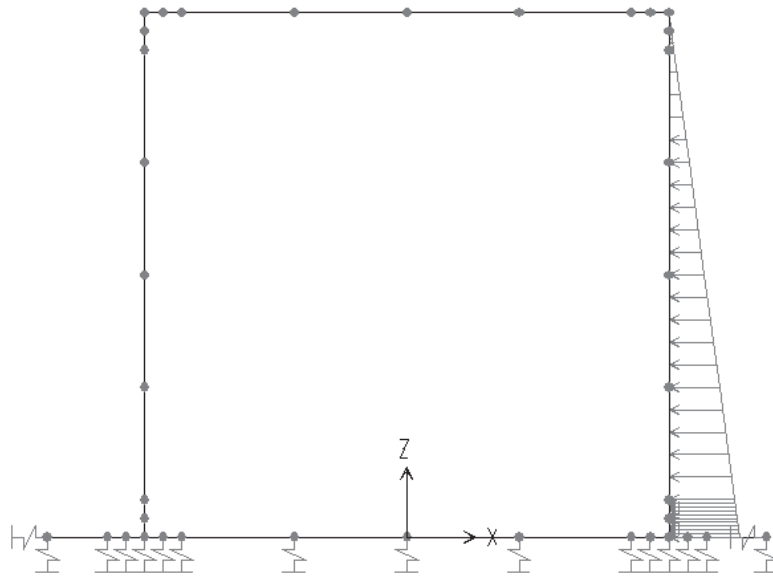


Figura 14 – SPINTA DELL'ACQUA SW2D

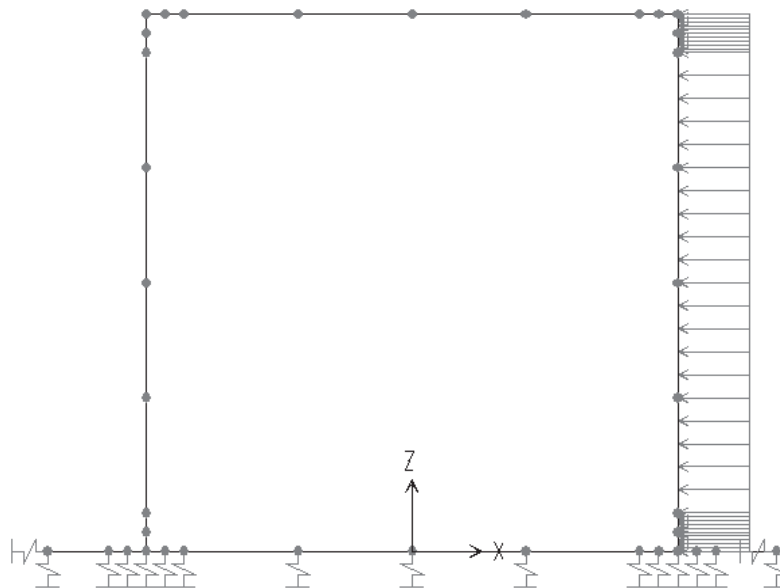


Figura 15 – SPINTA DELLE TERRE ST3D: spinta attiva

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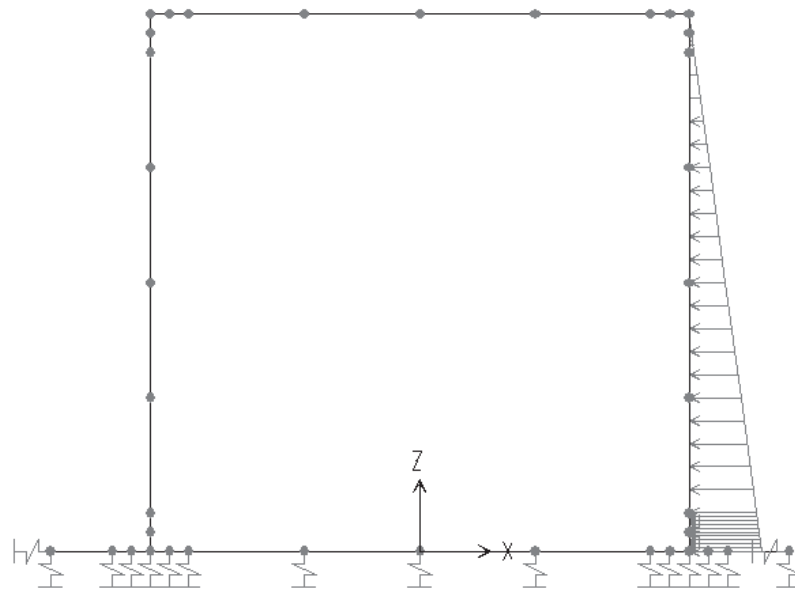


Figura 16 – SPINTA DELLE TERRE ST4D: spinta attiva

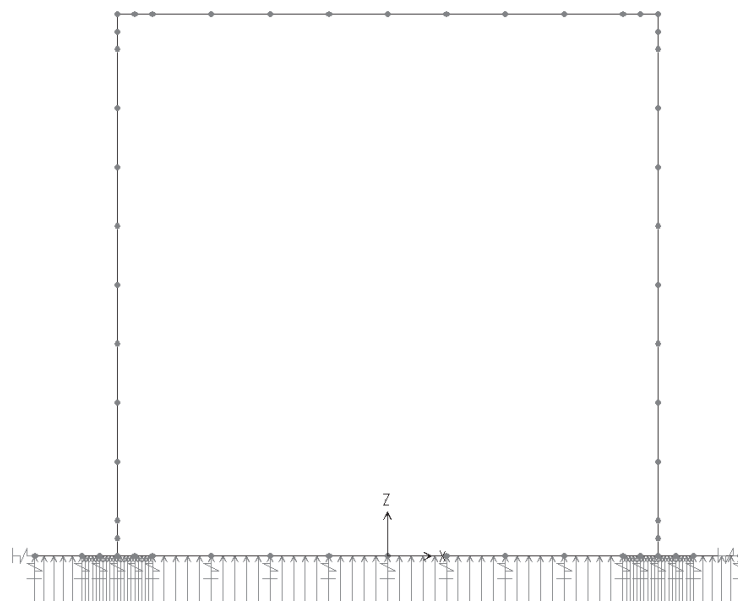


Figura 17 – SPINTA DI ARCHIMEDE SA

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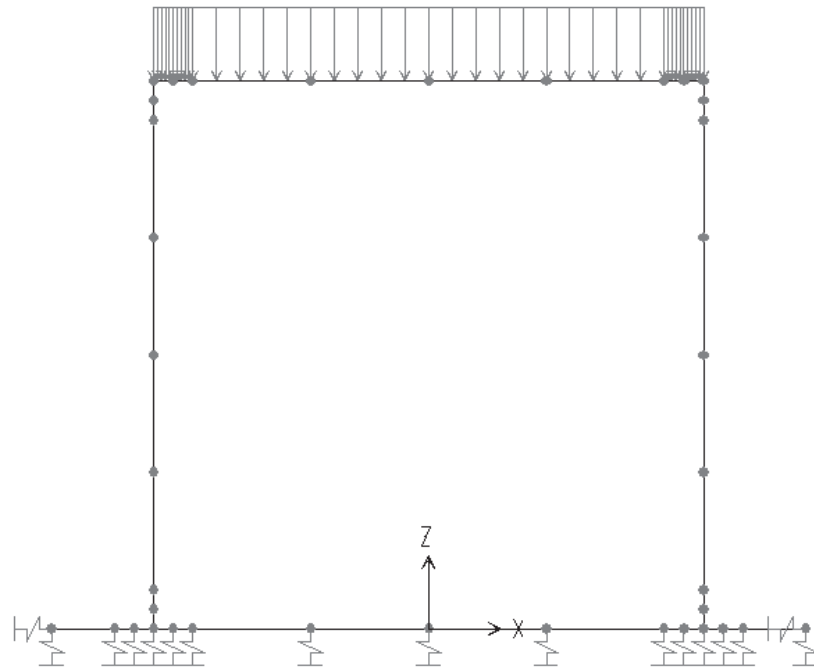


Figura 18 – AZIONE VERTICALE DA TRAFFICO QM01 (Q1K)

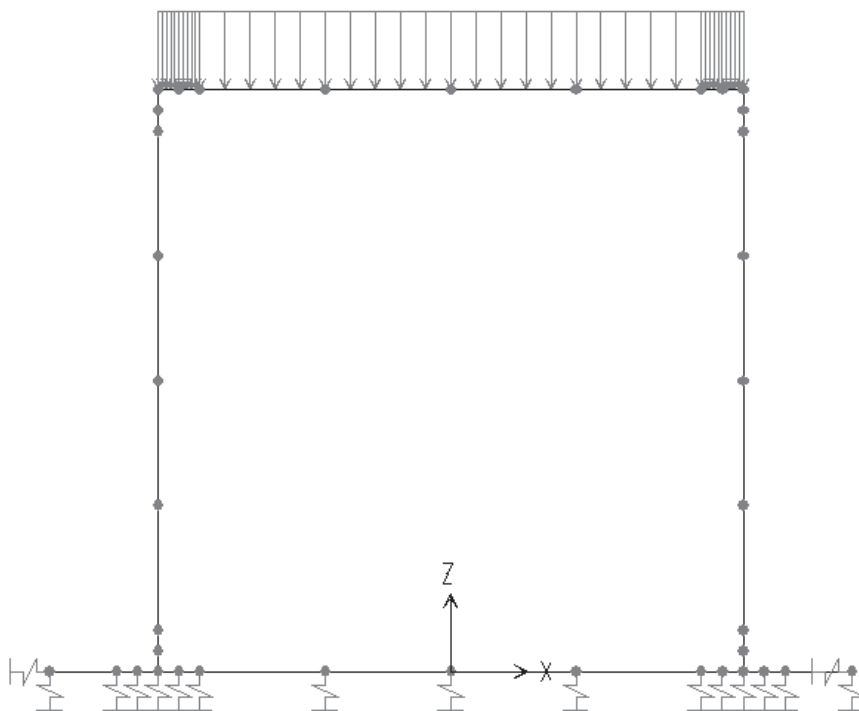


Figura 19 – AZIONE VERTICALE DA TRAFFICO QM02 (q1K)

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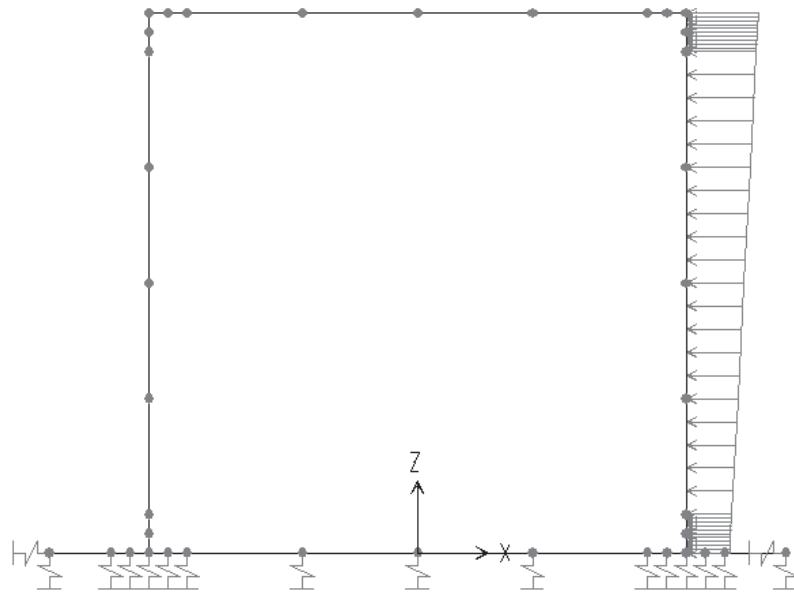


Figura 20 – SPINTA DOVUTA DALL’AZIONE VERTICALE DA TRAFFICO SUL PIEDR. DX SQMD

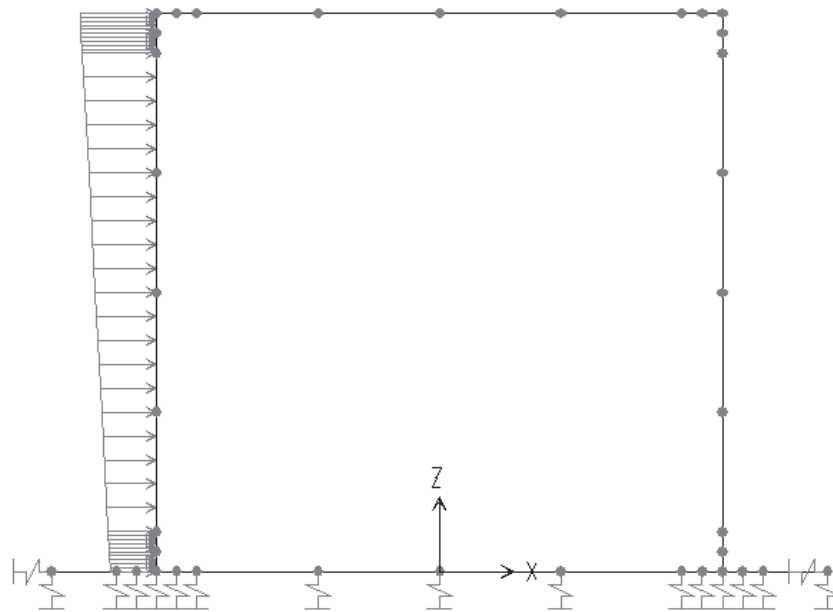


Figura 21 – SPINTA DOVUTA DALL’AZIONE VERTICALE DA TRAFFICO SUL PIEDR. SX SQMS

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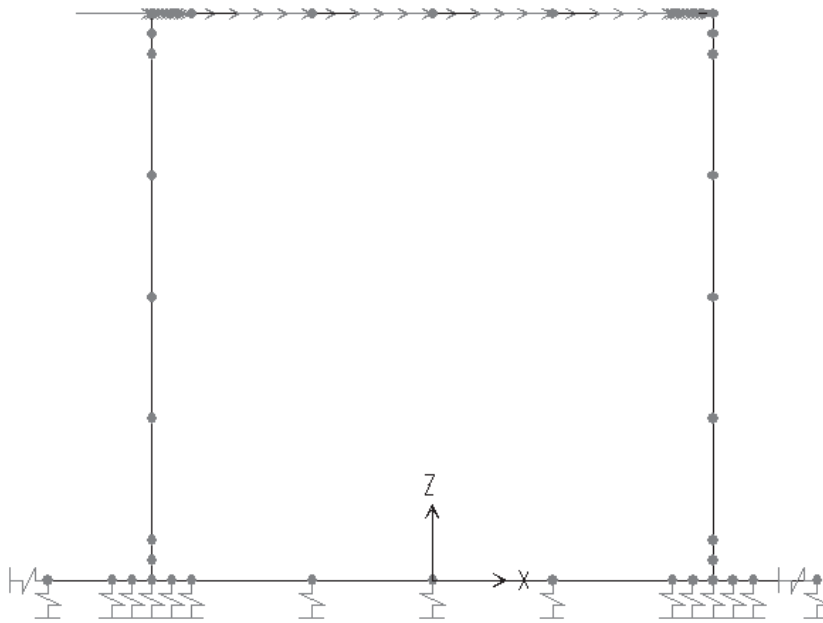


Figura 22 – AZIONE FRENANTE O CENTRIFUGA FA01

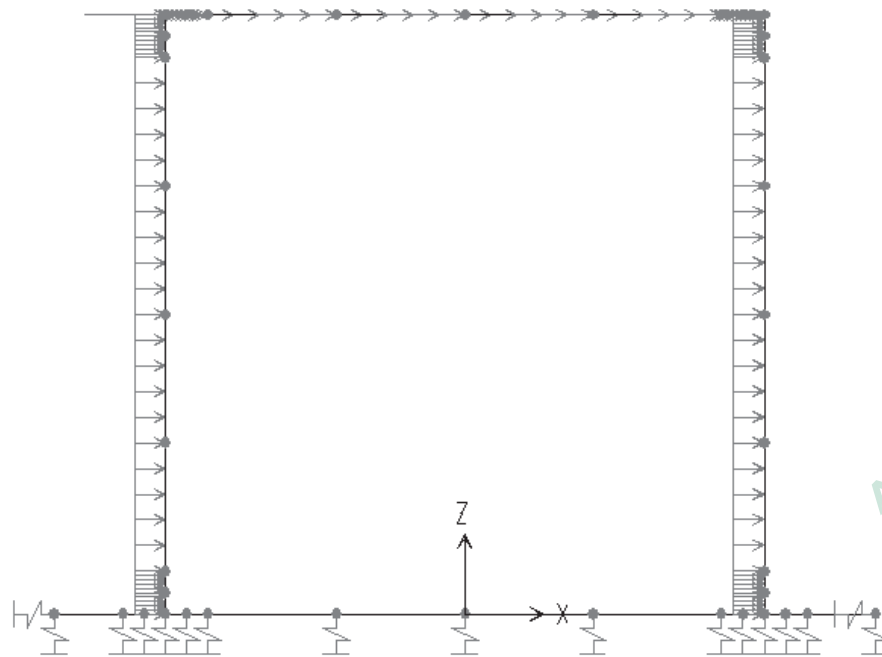


Figura 23 – AZIONI INERZIALI PER SISMA ORIZZONTALE IS01

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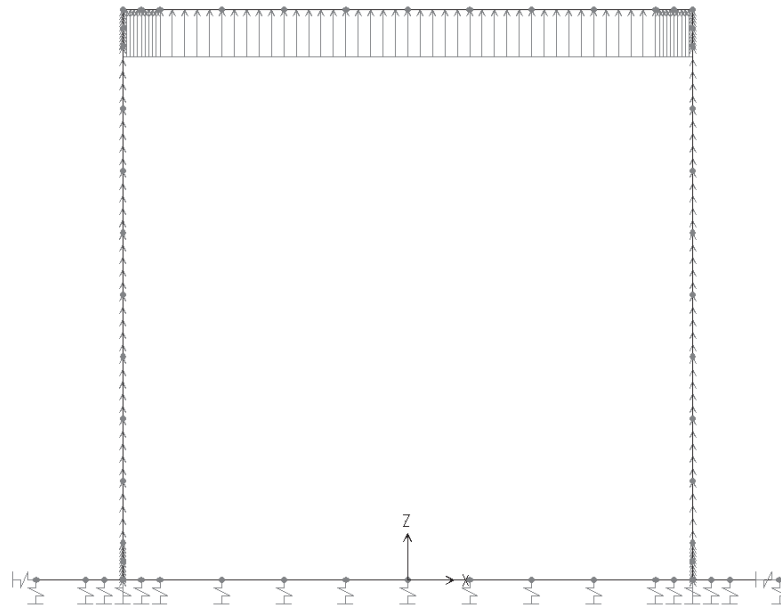


Figura 24 – AZIONI INERZIALI PER SISMA VERTICALE IS02

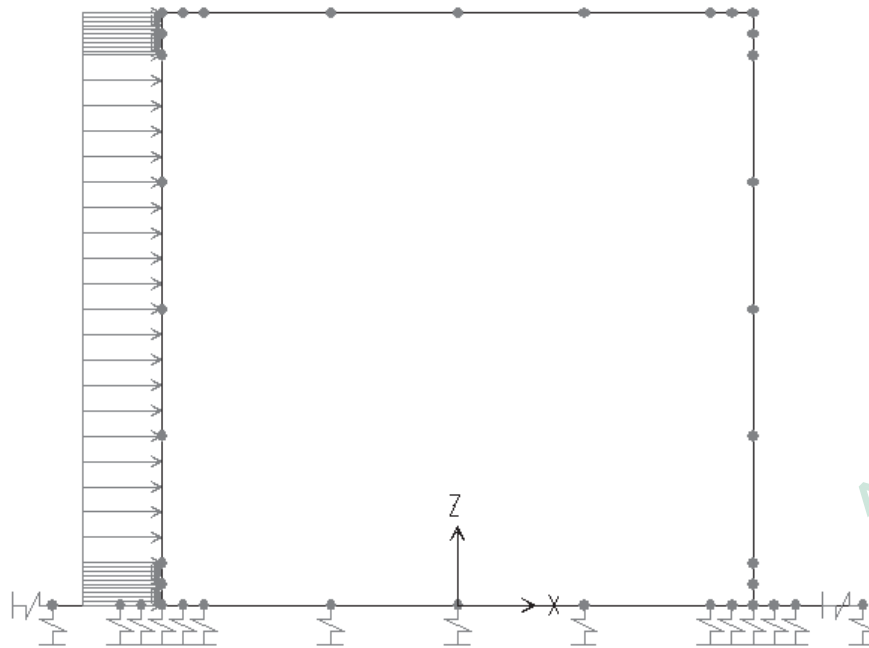


Figura 25 – SOVRASPINTA SISMICA SSTS

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## 8 VERIFICHE STATICHE

Di seguito si riportano le verifiche delle sezioni per le aste più significative e per le Combinazioni di carico risultate più critiche.

Le verifiche a flessione sono effettuate rispettivamente:

- nella sezione ubicata a metà fra asse piedritto e sezione d'attacco piedritto-soletta nel caso delle verifiche della soletta;

- nella sezione ubicata a metà fra asse soletta e sezione d'attacco del piedritto nel caso delle verifiche del piedritto.\*

Le verifiche a fessurazione ed a taglio sono eseguite nelle sezioni di attacco soletta-piedritto.

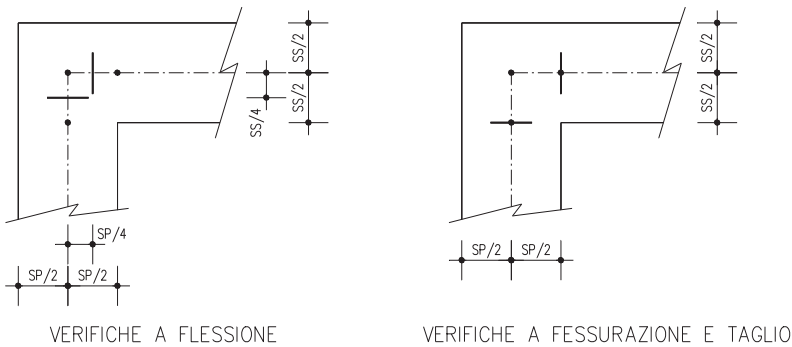


Figura 26 – Sezioni di riferimento per le verifiche

I calcoli di verifica sono effettuati con il metodo degli Stati Limite, applicando il D. M.14.01.2008 .

Le verifiche a fessurazione sono state condotte considerando:

Verifica di formazione delle fessure: la verifica si esegue per la sezione interamente reagente e per le sollecitazioni di esercizio si determina la massima trazione nel calcestruzzo  $\sigma_{ct}$ , confrontandola con la resistenza caratteristica a trazione per flessione  $f_{ctk}$ : se risulta  $\sigma_{ct} < f_{ctk}$  la verifica è soddisfatta, altrimenti si procede alla verifica di apertura delle fessure.

Verifica di apertura delle fessure: l'apertura convenzionale delle fessure è calcolata, come richiesto dal D. M. Min. II. TT. del 14 gennaio 2008, e valutata con le sollecitazioni relative alle Combinazioni FR o QP della normativa vigente sui ponti stradali". La massima apertura ammissibile risulta rispettivamente le strutture in ambiente aggressivo ed armature poco sensibili:

b.1) combinazione di carico Frequante:

$$w_k \leq w_2 = 0,30 \text{ mm}$$

b.2) combinazione di carico quasi permanente:

$$w_k \leq w_1 = 0,20 \text{ mm}$$

La massima apertura ammissibile risulta rispettivamente le strutture in ambiente ordinario ed armature poco sensibili:

b.1) combinazione di carico Frequente:

$$w_k \leq w_3 = 0,40 \text{ mm}$$


b.2) combinazione di carico quasi permanente:

$$w_k \leq w_2 = 0,30 \text{ mm}$$

Verifica delle tensioni di esercizio: le verifiche si eseguono per la condizione di carico Quasi Permanente e Rara, verificando rispettivamente che le tensioni di lavoro siano inferiori ai seguenti limiti:

per la condizione QP si verifica che le massime tensioni presenti nel calcestruzzo siano inferiori a  $\sigma_{ct} < 0,45 f_{ctk}$ ;

per la condizione rara si verifica che le massime tensioni presenti nel calcestruzzo siano inferiori a  $\sigma_{ct} < 0,60 f_{ctk}$ , mentre quelle dell'acciaio  $\sigma_s < 0,80 f_{yk}$

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A favore di sicurezza si trascura il contributo dello sforzo normale nelle verifiche delle sezioni delle solette orizzontali.

### TOMBINO E PASSO UOMO SCATOLARE 4,00x2,00

Il tombino scatolare presenta sezione corrente di forma quadrata ed è realizzato da una soletta di fondazione su cui si innestano i piedritti, costituiti da setti continui in cemento armato a spessore costante e sui quali si realizzerà la soletta di copertura, costituita da una piastra in calcestruzzo armato gettata in opera, anch'essa a spessore costante.

La geometria è quella riportata nella figura:

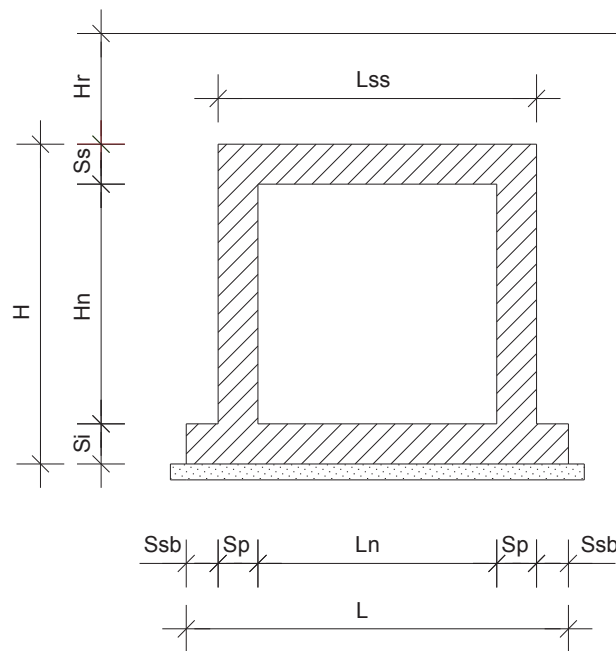


Figura 27 – sezione trasversale

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$$L_n = 4,00 \text{ m}$$

$$S_s = 0,50 \text{ m}$$

$$H_n = 2,00 \text{ m}$$

$$L = 5,30 \text{ m}$$

$$S_i = 0,50 \text{ m}$$

$$H = 3,00 \text{ m}$$

$$L_{ss} = 4,90 \text{ m}$$

$$S_p = 0,45 \text{ m}$$

$$S_{sb} = 0,20 \text{ m}$$

La struttura in oggetto sottopassa la strada a 1 carreggiata con due corsie di marcia. Il ricoprimento in asse stradale e minimo risulta:

$$H_{ric,asse} = 1,61 \text{ m}$$

$$H_{ric,min} = 1,15 \text{ m}$$

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## 8.1 Riassunto condizioni di carico e valori di calcolo

### Caratteristiche geometriche

B	= 4.00	m	Larghezza interna sezione trasversale di calcolo
H	= 2.00	m	Altezza interna sezione trasversale di calcolo
L <sub>tomb</sub>	= 22.00	m	Lunghezza totale assunta per lo scatolare
S <sub>psolsup</sub>	= 0.50	m	Spessore soletta superiore
S <sub>psolinf</sub>	= 0.50	m	Spessore soletta inferiore
S <sub>ppie</sub>	= 0.45	m	Spessore piedritti sezione trasversale di calcolo
H <sub>Ric</sub>	= 1.35	m	Ricoprimento
γ <sub>cls</sub>	= 25.00	kN/m <sup>3</sup>	Peso specifico del c.a.
Sbalzo	= 0.20	m	Sbalzo soletta inferiore
α <sub>ass</sub>	= 0	°	Inclinazione asse stradale rispetto all'asse della sezione trasversale di calcolo
L <sub>cons</sub>	= 1.00		Lunghezza tombino considerata per l'analisi dei carichi

### Caratteristiche geotecniche

γ <sub>ril</sub>	= 20.00	kN/m <sup>3</sup>	Peso specifico rilevato
φ <sub>ril</sub>	= 38.00	°	Angolo di resistenza al taglio di progetto secondo coeff parziale M1 del rilevato
γ <sub>φM1</sub>	= 1.00		Coefficiente parziale M1 come da NTC2008
K <sub>0M1</sub>	= 0.380		Coefficiente di spinta a riposo di progetto secondo coeff parziale M1
K <sub>AM1</sub>	= 0.238		Coefficiente di spinta attiva di progetto secondo coeff parziale M1
K <sub>PM1</sub>	= 4.200		Coefficiente di spinta passiva di progetto secondo coeff parziale M1
c <sub>ril</sub>	= 0.00	kN/m <sup>2</sup>	Coesione rilevato
γ <sub>terra</sub>	= 20.00	kN/m <sup>3</sup>	Peso specifico terreno di fondazione
φ <sub>terra</sub>	= 35.00	°	Angolo di attrito terreno di fondazione
k <sub>s</sub>	= 1000.00	kN/m <sup>3</sup>	Costante di sottofondo
γ <sub>φM2</sub>	= 1.25		Coefficiente parziale M2 come da NTC2008
φ <sub>ril</sub>	= 32	°	Angolo di resistenza al taglio di progetto secondo coeff parziale M2 del terreno di fondazione
K <sub>0M2</sub>	= 0.470		Coefficiente di spinta a riposo di progetto secondo coeff parziale M2
K <sub>AM2</sub>	= 0.307		Coefficiente di spinta attiva di progetto secondo coeff parziale M2
K <sub>PM2</sub>	= 3.250		Coefficiente di spinta passiva di progetto secondo coeff parziale M2
α	= 30	°	Angolo di diffusione carichi nel terreno

### ANALISI DEI CARICHI

#### Peso proprio

PPST = Automatico dal programma

#### Carichi permanenti

PPNS <sub>solsup</sub>	= 27.00	kN/m	Peso ricoprimento soletta superiore
PPNS <sub>sbalzi</sub>	= 77.00	kN/m	Peso ricoprimento sbalzi soletta inferiore
H riempimento	= 1.00	m	altezza di riempimento
PPAQ	= 10.00	kN/m	Peso riempimento con acqua su soletta inferiore

#### Spinta della terra con φ<sub>ril</sub>

ST1S.q	= 12.16	kN/m	Spinta a riposo (M1) costante sul piedritto sx
ST2S.q	= 19.00	kN/m	Spinta a riposo (M1) lineare sul piedritto sx
ST3S.q	= 7.62	kN/m	Spinta attiva (M1) costante sul piedritto sx
ST4S.q	= 11.90	kN/m	Spinta attiva (M1) lineare sul piedritto sx
ST1D.q	= -12.16	kN/m	Spinta a riposo (M1) costante sul piedritto dx
ST2D.q	= -19.00	kN/m	Spinta a riposo (M1) lineare sul piedritto dx
ST3D.q	= -7.62	kN/m	Spinta attiva (M1) costante sul piedritto dx
ST4D.q	= -11.90	kN/m	Spinta attiva (M1) lineare sul piedritto dx

#### Spinta della terra con φ<sub>ter</sub>

ST1SG.q	= 15.04	kN/m	Spinta a riposo (M2) costante sul piedritto sx
ST2SG.q	= 23.50	kN/m	Spinta a riposo (M2) lineare sul piedritto sx
ST3SG.q	= 9.83	kN/m	Spinta attiva (M2) costante sul piedritto sx
ST4SG.q	= 15.35	kN/m	Spinta attiva (M2) lineare sul piedritto sx
ST1DG.q	= -15.04	kN/m	Spinta a riposo (M2) costante sul piedritto dx
ST2DG.q	= -23.50	kN/m	Spinta a riposo (M2) lineare sul piedritto dx
ST3DG.q	= -9.83	kN/m	Spinta attiva (M2) costante sul piedritto dx
ST4DG.q	= -15.35	kN/m	Spinta attiva (M2) lineare sul piedritto dx

#### Carichi accidentali

##### Carichi su soletta superiore

Q<sub>ik 1°</sub> = 300.00 kN Carico tandem come da NTC2008 prima corsia

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$Q_{ik} 2^\circ$	= 200.00 kN	Carico tandem come da NTC2008 seconda corsia
b	= 0.40 m	Larghezza impronta di carico come da NTC2008
l	= 0.40 m	Lunghezza impronta di carico come da NTC2008
it	= 2.00 m	Interasse trasversale delle impronte come da NTC2008
il	= 1.20 m	Interasse longitudinale delle impronte come da NTC2008
$B_{T1}$	= 4.46 m	Larghezza di diffusione trasversale del carico tandem singola colonna di carico
$B_{T2}$	= 3.73 m	Larghezza di diffusione trasversale del carico tandem due colonne di carico
$B_r$	= 3.73 m	Larghezza di diffusione trasversale di calcolo
$L_{L1}$	= 3.66 m	Larghezza di diffusione longitudinale del carico tandem se $>B+2S_{pie}$
$L_{L2}$	= 3.45 m	Larghezza di diffusione longitudinale del carico tandem se $<B+2S_{pie}$
$L_l$	= 3.66 m	Larghezza di diffusione longitudinale di calcolo
QM01.q <sub>ic</sub>	= 43.95 kN/m <sup>2</sup>	Carico medio uniforme di calcolo
QM01.q <sub>ic</sub>	= 44.00 kN/m	Carico tandem medio uniforme di calcolo assunto
q <sub>ik</sub> 1°	= 9.00 kN/m <sup>2</sup>	Carico distribuito come da NTC2008 prima corsia
q <sub>ik</sub> 2°	= 2.50 kN/m <sup>2</sup>	Carico distribuito come da NTC2008 seconda corsia
QM02.q <sub>ik</sub>	= 9.00 kN/m	Carico distribuito di calcolo assunto
Spinta della terra con $\phi_{rit}$ - carico in avvicinamento		
n° corsie	= 2	
b	= 3.00 m	Larghezza di ripartizione del carico come da Circolare 2/2/09 n.617
l	= 2.20 m	lunghezza di ripartizione del carico come da Circolare 2/2/09 n.617
q <sub>ic'</sub>	= 90.91 kN/m <sup>2</sup>	Carico tandem trasformato in carico distribuito
q <sub>icsup</sub>	= 37.78 kN/m <sup>2</sup>	Carico Qik distribuito sull'asse della soletta sup
q <sub>icinf</sub>	= 20.91 kN/m <sup>2</sup>	Carico Qik distribuito sull'asse della soletta inf
q <sub>idsup</sub>	= 6.88 kN/m <sup>2</sup>	Carico qik distribuito sull'asse della soletta sup
q <sub>idinf</sub>	= 5.03 kN/m <sup>2</sup>	Carico qik distribuito sull'asse della soletta inf
SQMS.P <sub>sup</sub>	= 16.98 kN/m	Spinta a riposo (M1) sul piedritto sx in asse soletta superiore
SQMS.P <sub>inf</sub>	= 9.86 kN/m	Spinta a riposo (M1) sul piedritto sx in asse soletta inferiore
SQMD.P <sub>sup</sub>	= -16.98 kN/m	Spinta a riposo (M1) sul piedritto dx in asse soletta superiore
SQMD.P <sub>inf</sub>	= -9.86 kN/m	Spinta a riposo (M1) sul piedritto dx in asse soletta inferiore
Spinta della terra con $\phi'_{rit}$ - carico in avvicinamento		
SQMSG.P <sub>sup</sub>	= 21.00 kN/m	Spinta a riposo (M2) sul piedritto sx in asse soletta superiore
SQMSG.P <sub>inf</sub>	= 12.20 kN/m	Spinta a riposo (M2) sul piedritto sx in asse soletta inferiore
SQMDG.P <sub>sup</sub>	= -21.00 kN/m	Spinta a riposo (M2) sul piedritto dx in asse soletta superiore
SQMDG.P <sub>inf</sub>	= -12.20 kN/m	Spinta a riposo (M2) sul piedritto dx in asse soletta inferiore
Azione frenante o accelerazione		
Q <sub>3</sub>	= 373.23 kN	Carico frenante
n°	= 1	Numero carreggiate
$B_f$	= 22.00 m	Larghezza di diffusione trasversale azione di frenatura di calcolo
$L_f$	= 4.90 m	Larghezza di diffusione longitudinale azione di frenatura
q <sub>3</sub>	= 3.81 kN/m <sup>2</sup>	Azione frenante di calcolo in direzione da destra a sinistra
FA02.q <sub>3</sub>	= 3.90 kN/m	Azione frenante di calcolo in direzione da sinistra a destra assunta
Azione centrifuga		
R	= 250.00 m	Raggio di curvatura
Q <sub>v</sub>	= 600.00 kN	Carico tandem della prima colonna di carico
Q <sub>4</sub>	= 96.00 kN	Azione centrifuga
$B_r$	= 3.73 m	Larghezza di diffusione trasversale di calcolo
q <sub>4'</sub>	= 0.00 kN/m <sup>2</sup>	Azione centrifuga distribuita
q <sub>4</sub>	= 0.00 kN/m	Azione centrifuga di calcolo
Le sollecitazioni derivanti dall'azione centrifuga sono involuppate dalle azioni derivanti dall'azione di frenatura		
Azioni termiche		
TC01	= 10.00 °C	Carico termico uniforme sulla soletta superiore
TC02	= -10.00 °C	Carico termico uniforme sulla soletta superiore
TV01	= 5.00 °C	Carico termico a farfalla sulla soletta superiore estradosso più caldo
TV02	= -5.00 °C	Carico termico a farfalla sulla soletta superiore estradosso più freddo
Azione sismica		
C <sub>s</sub>	= B	Categoria di sottosuolo
C <sub>t</sub>	= T1	Categoria topografica
C <sub>lu</sub>	= 4	Classe d'uso
C <sub>u</sub>	= 2	Coefficiente d'uso
VN	= 50 anni	Vita nominale
VR	= 100 anni	Periodo di riferimento
T <sub>R</sub>	= 949	Periodo di ritorno
SL	= SLV	Stato limite ultimo di salvaguardia della vita
a <sub>g</sub>	= 0.24 g	Accelerazione del suolo
F <sub>0</sub>	= 2.445	Fattore di amplificazione dello spettro in accelerazione orizzontale

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$T_c$	= 0.294	s	Periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale
$S_s$	= 1.17		Coeff di amplificazione sismografica
$a_{max}$	= 0.281	g	Accelerazione massima attesa in sito
$\beta_m$	= 1.00		Coeff riduttivo dell'accelerazione massima come da NTC2008
$k_h$	= 0.281		Coeff sismico orizzontale come da NTC2008
$k_v$	= 0.141		Coeff sismico verticale come da NTC2008
IS02.pie	= 3.17	kN/m	Inerzia dei piedritti per sisma da sinistra a destra
IS02.sol+ric	= 11.10	kN/m	Inerzia della soletta superiore e del ricoprimento per sisma da sinistra a destra
SSTS.qv	= 24.43	kN/m	Sovraspinta sull'asse del piedritto sx

## 8.2 Massime sollecitazioni

Dall'analisi ad elementi finiti scaturiscono le seguenti sollecitazioni massime:

Combinazione frequente

Frame	N [kN]	M [kNm]	T [kN]	comb
1	0.00	0.00	6.23	FRE24
2	0.00	0.77	1.93	FRE24
3	0.00	1.38	3.67	FRE24
4	43.97	101.28	106.75	FRE24
5	43.97	81.06	101.15	FRE24
6	43.97	61.77	67.95	FRE24
7	43.97	90.67	18.45	FRE24
8	43.97	131.96	30.95	FRE24
9	43.97	98.67	80.45	FRE24
10	43.97	47.99	102.56	FRE24
11	43.97	67.16	108.15	FRE24
12	0.00	3.50	2.26	FRE24
13	0.00	1.34	3.34	FRE24
14	0.00	0.54	11.67	FRE24
15	35.35	86.54	87.89	FRE24
16	35.35	67.21	83.44	FRE24
17	35.35	48.87	79.00	FRE24
18	35.35	87.70	39.50	FRE24
19	35.35	124.44	0.00	FRE24
20	35.35	84.82	39.50	FRE24
21	35.35	56.71	79.00	FRE24
22	35.35	75.60	83.44	FRE24
23	116.01	99.74	43.97	FRE24
24	114.61	92.87	39.19	FRE24
25	113.20	86.60	34.50	FRE24
26	107.58	68.67	16.59	FRE24
27	101.95	65.76	0.04	FRE24
28	96.33	70.40	15.14	FRE24
29	90.70	77.84	28.96	FRE24
30	89.29	81.53	32.20	FRE24
31	116.01	84.86	43.97	FRE24

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Frame	N [kN]	M [kNm]	T [kN]	comb
32	114.61	79.40	39.19	FRE24
33	113.20	75.65	34.50	FRE24
34	107.58	68.67	16.59	FRE24
35	101.95	65.76	0.04	FRE24
36	96.33	75.09	15.14	FRE24
37	90.70	88.12	28.96	FRE24
38	89.29	91.74	32.20	FRE24

## Combinazione quasi permanente

Frame	N [kN]	M [kNm]	T [kN]	comb
1	10.11	0.00	5.80	QPE10
2	10.11	0.63	3.00	QPE10
3	10.11	1.05	2.17	QPE10
4	33.66	60.86	106.85	QPE08
5	33.66	48.76	101.64	QPE08
6	33.66	37.25	70.28	QPE08
7	26.74	57.69	22.41	QPE10
8	26.74	78.41	26.98	QPE10
9	26.74	57.68	78.12	QPE10
10	26.74	37.26	102.07	QPE10
11	26.74	48.77	108.06	QPE10
12	10.11	0.89	3.77	QPE10
13	10.11	1.05	2.26	QPE10
14	10.11	0.63	11.23	QPE10
15	17.30	49.18	86.06	QPE10
16	17.30	39.34	81.62	QPE10
17	17.30	30.00	77.17	QPE10
18	11.95	46.33	37.67	QPE09
19	17.30	64.26	1.83	QPE10
20	17.30	46.34	41.33	QPE10
21	17.30	30.00	80.83	QPE10
22	17.30	39.34	85.27	QPE10
23	114.19	61.75	43.77	QPE08
24	112.78	56.52	39.93	QPE08
25	111.37	51.76	36.22	QPE08
26	105.75	37.15	22.54	QPE08
27	103.78	35.07	4.05	QPE05
28	98.15	38.69	10.24	QPE05
29	92.53	45.11	15.24	QPE05
30	91.12	47.08	16.30	QPE05
31	117.84	61.76	16.63	QPE10
32	116.43	56.53	14.23	QPE10

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Frame	N [kN]	M [kNm]	T [kN]	comb
33	115.03	51.77	11.90	QPE10
34	109.40	37.15	3.33	QPE10
35	103.78	35.07	4.05	QPE10
36	98.15	38.69	10.24	QPE10
37	92.53	45.11	15.24	QPE10
38	91.12	47.08	16.31	QPE10

## Combinazione caratteristica o rara

Frame	N [kN]	M [kNm]	T [kN]	comb
1	0.00	0.00	6.23	RAR48
2	0.00	0.82	1.93	RAR48
3	0.00	1.49	3.67	RAR48
4	41.29	115.81	106.75	RAR48
5	41.29	92.87	101.15	RAR48
6	41.29	72.84	67.95	RAR48
7	41.29	103.72	18.45	RAR48
8	41.29	150.55	30.95	RAR48
9	41.29	113.39	80.45	RAR48
10	41.29	54.40	102.56	RAR48
11	41.29	76.14	108.15	RAR48
12	0.00	4.71	2.26	RAR48
13	0.00	2.00	3.34	RAR48
14	0.00	0.63	11.67	RAR48
15	38.02	101.81	87.89	RAR48
16	38.02	79.25	83.44	RAR48
17	38.02	57.85	79.00	RAR48
18	38.02	102.71	39.50	RAR48
19	38.02	145.42	0.00	RAR48
20	38.02	99.17	39.50	RAR48
21	38.02	68.28	79.00	RAR48
22	38.02	89.45	83.44	RAR48
23	116.01	113.45	41.30	RAR48
24	114.61	105.94	36.52	RAR48
25	113.20	99.06	31.83	RAR48
26	107.58	79.19	13.91	RAR48
27	101.95	79.56	2.63	RAR48
28	96.33	84.48	17.81	RAR48
29	90.70	92.20	31.63	RAR48
30	89.29	96.19	34.87	RAR48
31	116.01	95.55	41.30	RAR48
32	114.61	89.72	36.52	RAR48
33	113.20	85.79	31.83	RAR48
34	107.58	79.18	13.91	RAR48

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Frame	N [kN]	M [kNm]	T [kN]	comb
35	101.95	79.56	2.63	RAR48
36	96.33	90.15	17.81	RAR48
37	90.70	104.60	31.63	RAR48
38	89.29	108.58	34.87	RAR48

## Combinazione sismica


Frame	N [kN]	M [kNm]	T [kN]	comb
1	74.764	2.092E-11	2.023	SISSTR
2	74.764	1.3855	12.132	SISSTR
3	74.764	2.8294	10.605	SISSTR
4	49.591	112.9535	100.02	SISSTR
5	49.591	101.6221	98.019	SISSTR
6	49.591	90.5159	81.413	SISSTR
7	49.591	2.1471	52.983	SISSTR
8	49.591	66.3805	6.015	SISSTR
9	49.591	83.6455	59.668	SISSTR
10	49.591	35.2278	96.752	SISSTR
11	49.591	24.4223	107.637	SISSTR
12	74.758	4.4476	22.083	SISSTR
13	74.758	1.8842	10.716	SISSTR
14	74.758	0.5996	5.952	SISSTR
15	11.621	11.6228	63.054	SISSTR
16	12.87	18.4665	58.611	SISSTR
17	14.119	24.8102	54.167	SISSTR
18	25.219	59.2271	14.667	SISSTR
19	36.319	54.1441	24.833	SISSTR
20	47.419	9.561	64.333	SISSTR
21	58.519	74.5221	103.833	SISSTR
22	59.767	86.4532	108.277	SISSTR
23	91.179	117.055	124.355	SISSTR
24	89.773	102.0243	116.161	SISSTR
25	88.367	88.0087	108.113	SISSTR
26	82.742	41.73	77.393	SISSTR
27	77.117	10.2239	49.023	SISSTR
28	71.492	7.6848	23.003	SISSTR
29	65.867	13.171	0.667	SISSTR
30	64.461	12.7392	6.217	SISSTR
31	140.846	16.8398	25.167	SISSTR
32	139.439	13.524	27.871	SISSTR
33	138.033	9.8762	30.479	SISSTR
34	132.408	7.7952	39.951	SISSTR
35	126.783	29.8191	47.889	SISSTR
36	121.158	55.4281	54.291	SISSTR
37	115.533	83.8545	59.159	SISSTR

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	Doc. N. 60236-00000-A00.doc	CODIFICA DOCUMENTO 04RCDII100000000000400A00	REV. 00	FOGLIO 49 di 310

Frame	N [kN]	M [kNm]	T [kN]	comb
38	114.127	91.3114	60.136	SISSTR

Le verifiche di pressoflessione che seguono sono state condotte sui “frames” 24, 27 e 35 per la verifica dei piedritti, 19 e 22 per la verifica della soletta superiore infine 8 e 5 per la soletta inferiore.

Le verifiche a taglio sono condotte sul elemento 21 per la soletta superiore, 37 per i piedritti e 6 per la soletta inferiore.

Per la tabella delle combinazioni “STR” si rimanda alla verifica di resistenza allo stato limite ultimo.

### 8.3 Verifiche di resistenza e fessurazione

Si riportano di seguito le verifiche di resistenza e fessurazione per le sezioni scelte quali caratteristiche della struttura.

#### 8.3.1 Soletta superiore

##### Disposizione armature

Armatura longitudinale inferiore (per sollecitazione  $M_X$  positiva)

d1	=	20	mm	Diametro ferri prima fila
c1	=	6.00	cm	Copriferro ferri prima fila
i1	=	20.00	cm	Interasse ferri prima fila
As1	=	15.71	cmq	Area acciaio ferri prima fila
d2	=	0	mm	Diametro ferri seconda fila
c2	=	0.00	cm	Copriferro ferri seconda fila
i2	=	0.00	cm	Interasse ferri seconda fila
As2	=	0.00	cmq	Area acciaio ferri seconda fila
d3	=	0	mm	Diametro ferri terza fila
c3	=	0.00	cm	Copriferro ferri terza fila
i3	=	0.00	cm	Interasse ferri terza fila
As3	=	0.00	cmq	Area acciaio ferri terza fila
As	=	15.71	cmq	Area acciaio in zona tesa

Armatura longitudinale superiore (per sollecitazione  $M_X$  positiva)

d1	=	16	mm	Diametro ferri prima fila
c1	=	6.00	cm	Copriferro ferri prima fila
i1	=	20.00	cm	Interasse ferri prima fila
As'1	=	10.05	cmq	Area acciaio ferri prima fila
d2	=	0	mm	Diametro ferri seconda fila
c2	=	0.00	cm	Copriferro ferri seconda fila
i2	=	0.00	cm	Interasse ferri seconda fila
As'2	=	0.00	cmq	Area acciaio ferri seconda fila
d3	=	0	mm	Diametro ferri terza fila
c3	=	0.00	cm	Copriferro ferri terza fila
i3	=	0.00	cm	Interasse ferri terza fila
As'3	=	0.00	cmq	Area acciaio ferri terza fila
As'	=	10.05	cmq	Area acciaio in zona compressa

Armatura trasversale, staffe e/o ferri piegati (per sollecitazione  $V_Y$ )

$\theta$	=	45	°	Inclinazione della biella di cls (standard: 45°)
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Asw 1° ordine:

$\alpha$  = 90 ° staffe: 90°; ferri piegati: angolo minore di 90°  
 n° bracci = 5  
 $\varphi 1$  = 10 mm Diametro staffe primo ordine  
 s = 240 mm Passo delle staffe

### 8.3.1.1 Attacco piedritto

Combinazione STR

#### Combinazioni di carico e verifica a pressoflessione retta

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX SF MIN
1	STR 1	0.00	-41.28	106.65	4.24
2	STR 2	0.00	-37.81	106.65	4.63
3	STR 3	0.00	-89.92	249.75	1.95
4	STR 4	0.00	-113.11	258.91	1.55
5	STR 5	0.00	-97.59	249.75	1.79
6	STR 6	0.00	-51.97	88.16	3.37
7	STR 7	0.00	-36.45	79.00	4.81
8	STR 8	0.00	-110.79	228.45	1.58
9	STR 9	0.00	-54.11	106.65	3.24
10	STR 10	0.00	-50.64	106.65	3.46
11	STR 11	0.00	-96.34	249.75	1.82
12	STR 12	0.00	-119.53	258.91	1.47
13	STR 13	0.00	-104.01	249.75	1.68
14	STR 14	0.00	-58.38	88.16	3.00
15	STR 15	0.00	-42.86	79.00	4.09
16	STR 16	0.00	-117.20	228.45	1.49
17	STR 17	0.00	-89.72	213.97	1.95
18	STR 18	0.00	-109.42	221.73	1.60
19	STR 19	0.00	-96.34	213.98	1.82
20	STR 20	0.00	-61.30	86.76	2.86
21	STR 21	0.00	-48.23	79.00	3.63
22	STR 22	0.00	-28.45	106.65	6.16
23	STR 23	0.00	-24.98	106.65	7.01
24	STR 24	0.00	-83.51	249.75	2.10
25	STR 25	0.00	-106.70	258.91	1.64
26	STR 26	0.00	-91.18	249.75	1.92
27	STR 27	0.00	-45.55	88.16	3.84
28	STR 28	0.00	-30.03	79.00	5.83
29	STR 29	0.00	-104.37	228.45	1.68
30	STR 30	0.00	-64.07	213.97	2.73
31	STR 31	0.00	-83.76	221.73	2.09
32	STR 32	0.00	-70.68	213.98	2.48
33	STR 33	0.00	-35.65	86.76	4.91
34	STR 34	0.00	-22.57	79.00	7.76
35	STR 35	0.00	-27.36	106.65	6.40

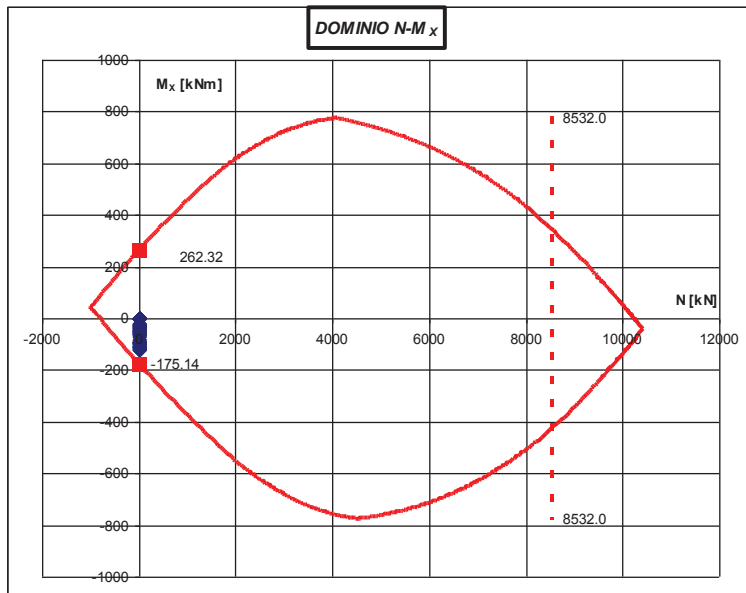
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### Combinazioni di carico e verifica a pressoflessione retta

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX SF MIN
36	STR 36	0.00	-23.90	106.65	7.33
37	STR 37	0.00	-45.01	88.16	3.89
38	STR 38	0.00	-29.49	79.00	5.94
39	STR 39	0.00	-34.56	86.76	5.07
40	STR 40	0.00	-21.49	79.00	8.15
41	STR 41	0.00	-55.19	106.65	3.17
42	STR 42	0.00	-51.72	106.65	3.39
43	STR 43	0.00	-96.88	249.75	1.81
44	STR 44	0.00	-120.07	258.91	1.46
45	STR 45	0.00	-104.55	249.75	1.68
46	STR 46	0.00	-58.92	88.16	2.97
47	STR 47	0.00	-43.40	79.00	4.04
48	STR 48	0.00	-117.75	228.45	1.49
49	STR 49	0.00	-90.81	213.97	1.93
50	STR 50	0.00	-110.50	221.73	1.58
51	STR 51	0.00	-97.43	213.98	1.80
52	STR 52	0.00	-62.39	86.76	2.81
53	STR 53	0.00	-49.31	79.00	3.55



APPROVATO SDP

### Verifica a taglio della sezione maggiormente sollecitata:

Effetto positivo della compressione sul taglio: NO

Effetto positivo dei meccanismi pettine, bietta, ingranaggio... del cls: NO

Tipo di verifica a taglio: Elemento armato a taglio.

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**Verifica a taglio (  $V_Y$  )**

$V_{sd Y} =$	<b>259</b>	<b>kN</b>
$V_{Rd Y} =$	<b>280</b>	<b>kN</b>
<b>SF</b>	<b>=</b>	<b>1.08</b>

*Combinazione RAR*
**Verifica tensioni in esercizio**

N	=	0.00	KN	
M	=	89.45	KNm	
e	=	0.00	cm	
yn	=	9.49	cm	posizione asse neutro da lembo superiore
yg sup	=	9.49	cm	posizione del baricentro della sezione parzializzata
$S^* yg =$	=	5084.07	cmc	momento statico rispetto all'asse neutro della sezione parzializzata
$J_i =$	=	201309.51	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	4.21	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	224.72	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=		MPa	
sigma s' min	=	-16.6	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=		MPa	

*Combinazione FRE*
**Verifica a fessurazione**

N	=	0.00	KN	azione assiale
M	=	75.60	KNm	azione flettente
N/M	=	0.00	1/m	rapporto fra azione assiale e flettente
Nf	=	0.00	KN	azione assiale per formazione fessure
Mf	=	143.18	KNm	azione flettente per formazione fessure
sigma sf	=	359.7	MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
yn f	=	9.49	cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

*Combinazione QPE*
**Verifica tensioni in esercizio**

N	=	0.00	KN	
M	=	39.34	KNm	
e	=	0.00	cm	
yn	=	9.49	cm	posizione asse neutro da lembo superiore
yg sup	=	9.49	cm	posizione del baricentro della sezione parzializzata
$S^* yg =$	=	5084.07	cmc	momento statico rispetto all'asse neutro della sezione

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$J_i =$	=	201309.51 cm <sup>4</sup>	parzializzata momento di inerzia della sezione parzializzata
$\sigma_c \max$	=	1.85 MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
$\sigma_s \max$	=	98.83 MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
$\sigma_s \min$	=	MPa	
$\sigma_s' \min$	=	-7.3 MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
$\sigma_s' \max$	=	MPa	

#### Verifica a fessurazione

N	=	0.00 KN	azione assiale
M	=	39.34 KNm	azione flettente
N/M	=	0.00 1/m	rapporto fra azione assiale e flettente
N <sub>f</sub>	=	0.00 KN	azione assiale per formazione fessure
M <sub>f</sub>	=	143.18 KNm	azione flettente per formazione fessure
$\sigma_{sf}$	=	359.7 MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
$y_{nf}$	=	9.49 cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

Il momento di formazione delle fessure è maggiore del momento sollecitante non è quindi necessario il calcolo dell'apertura delle fessure

#### 8.3.1.2 Mezzeria

##### Combinazione STR

#### Combinazioni di carico e verifica a pressoflessione retta

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX SF MIN
1	STR 1	0.00	77.71	0.00	3.38
2	STR 2	0.00	81.17	0.00	3.23
3	STR 3	0.00	188.71	0.00	1.39
4	STR 4	0.00	184.88	9.16	1.42
5	STR 5	0.00	181.05	0.00	1.45
6	STR 6	0.00	55.52	9.16	4.72
7	STR 7	0.00	51.69	0.00	5.07
8	STR 8	0.00	158.52	14.48	1.65
9	STR 9	0.00	64.88	0.00	4.04
10	STR 10	0.00	68.35	0.00	3.84
11	STR 11	0.00	182.30	0.00	1.44
12	STR 12	0.00	178.46	9.16	1.47
13	STR 13	0.00	174.63	0.00	1.50
14	STR 14	0.00	49.10	9.16	5.34
15	STR 15	0.00	45.27	0.00	5.79
16	STR 16	0.00	152.10	14.48	1.72
17	STR 17	0.00	149.00	0.00	1.76
18	STR 18	0.00	145.69	7.76	1.80
19	STR 19	0.00	142.38	0.00	1.84

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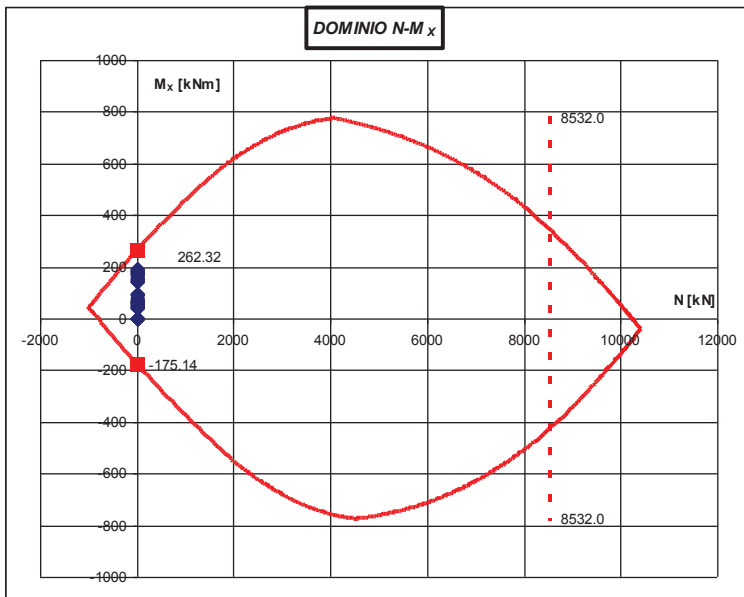
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**Combinazioni di carico e verifica a pressoflessione retta**

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX SF MIN
20	STR 20	0.00	43.22	7.76	<b>6.07</b>
21	STR 21	0.00	39.91	0.00	<b>6.57</b>
22	STR 22	0.00	90.54	0.00	<b>2.90</b>
23	STR 23	0.00	94.00	0.00	<b>2.79</b>
24	STR 24	0.00	195.12	0.00	<b>1.34</b>
25	STR 25	0.00	191.29	9.16	<b>1.37</b>
26	STR 26	0.00	187.46	0.00	<b>1.40</b>
27	STR 27	0.00	61.93	9.16	<b>4.24</b>
28	STR 28	0.00	58.10	0.00	<b>4.51</b>
29	STR 29	0.00	164.93	14.48	<b>1.59</b>
30	STR 30	0.00	174.66	0.00	<b>1.50</b>
31	STR 31	0.00	171.35	7.76	<b>1.53</b>
32	STR 32	0.00	168.04	0.00	<b>1.56</b>
33	STR 33	0.00	68.87	7.76	<b>3.81</b>
34	STR 34	0.00	65.57	0.00	<b>4.00</b>
35	STR 35	0.00	91.62	0.00	<b>2.86</b>
36	STR 36	0.00	95.09	0.00	<b>2.76</b>
37	STR 37	0.00	62.48	9.16	<b>4.20</b>
38	STR 38	0.00	58.65	0.00	<b>4.47</b>
39	STR 39	0.00	69.96	7.76	<b>3.75</b>
40	STR 40	0.00	66.65	0.00	<b>3.94</b>
41	STR 41	0.00	63.80	0.00	<b>4.11</b>
42	STR 42	0.00	67.26	0.00	<b>3.90</b>
43	STR 43	0.00	181.75	0.00	<b>1.44</b>
44	STR 44	0.00	177.92	9.16	<b>1.47</b>
45	STR 45	0.00	174.09	0.00	<b>1.51</b>
46	STR 46	0.00	48.56	9.16	<b>5.40</b>
47	STR 47	0.00	44.73	0.00	<b>5.86</b>
48	STR 48	0.00	151.56	14.48	<b>1.73</b>
49	STR 49	0.00	147.91	0.00	<b>1.77</b>
50	STR 50	0.00	144.60	7.76	<b>1.81</b>
51	STR 51	0.00	141.30	0.00	<b>1.86</b>
52	STR 52	0.00	42.13	7.76	<b>6.23</b>
53	STR 53	0.00	38.83	0.00	<b>6.76</b>

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**Verifica a taglio della sezione maggiormente sollecitata:**

Effetto positivo della compressione sul taglio: NO

Effetto positivo dei meccanismi pettine, bietta, ingranaggio... del cls: NO

Tipo di verifica a taglio: Elemento NON armato a taglio.

**Verifica a taglio ( V<sub>Y</sub> )**

V <sub>Sd Y</sub> =	14	kN
V <sub>Rd Y</sub> =	174	kN
SF	=	12.00

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*Combinazione RAR*

**Verifica tensioni in esercizio**

N	=	0.00	KN	
M	=	145.42	KNm	
e	=	0.00	cm	
y <sub>n</sub>	=	11.41	cm	posizione asse neutro da lembo superiore
y <sub>g sup</sub>	=	11.41	cm	posizione del baricentro della sezione parzializzata
S* y <sub>g</sub> =	=	7443.11	cm <sup>3</sup>	momento statico rispetto all'asse neutro della sezione parzializzata
J <sub>i</sub> =	=	289185.66	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	5.74	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta

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$\sigma_s \max$	=	238.28 MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
$\sigma_s \min$	=	MPa	
$\sigma_{s'} \min$	=	-42.3 MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
$\sigma_{s'} \max$	=	-36.4 MPa	

#### Combinazione FRE

##### Verifica a fessurazione

N	=	0.00 KN	azione assiale
M	=	124.44 KNm	azione flettente
N/M	=	0.00 1/m	rapporto fra azione assiale e flettente
Nf	=	0.00 KN	azione assiale per formazione fessure
Mf	=	147.50 KNm	azione flettente per formazione fessure
$\sigma_{sf}$	=	241.7 MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
$y_n f$	=	11.41 cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

#### Combinazione QPE

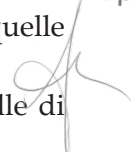
##### Verifica tensioni in esercizio

N	=	0.00 KN	
M	=	64.26 KNm	
e	=	0.00 cm	
$y_n$	=	11.41 cm	posizione asse neutro da lembo superiore
$y_{g \sup}$	=	11.41 cm	posizione del baricentro della sezione parzializzata
$S^* y_g =$	=	7443.11 cmc	momento statico rispetto all'asse neutro della sezione parzializzata
$J_i =$	=	289185.66 cm <sup>4</sup>	momento di inerzia della sezione parzializzata
$\sigma_c \max$	=	2.54 MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
$\sigma_s \max$	=	105.29 MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
$\sigma_s \min$	=	MPa	
$\sigma_{s'} \min$	=	-18.7 MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
$\sigma_{s'} \max$	=	-16.1 MPa	

##### Verifica a fessurazione

N	=	0.00 KN	azione assiale
M	=	64.26 KNm	azione flettente
N/M	=	0.00 1/m	rapporto fra azione assiale e flettente
Nf	=	0.00 KN	azione assiale per formazione fessure
Mf	=	147.50 KNm	azione flettente per formazione fessure
$\sigma_{sf}$	=	241.7 MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
$y_n f$	=	11.41 cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

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Il momento di formazione delle fessure è maggiore del momento sollecitante non è quindi necessario il calcolo dell'apertura delle fessure

### 8.3.2 Soletta di fondazione

#### Disposizione armature

$M_x$  ---  $V_y$

Armatura longitudinale inferiore (per sollecitazione  $M_x$  positiva)

d1	=	16	mm	Diametro ferri prima fila
c1	=	6.00	cm	Copriferro ferri prima fila
i1	=	20.00	cm	Interasse ferri prima fila
As1	=	10.05	cmq	Area acciaio ferri prima fila
d2	=	0	mm	Diametro ferri seconda fila
c2	=	0.00	cm	Copriferro ferri seconda fila
i2	=	0.00	cm	Interasse ferri seconda fila
As2	=	0.00	cmq	Area acciaio ferri seconda fila
d3	=	0	mm	Diametro ferri terza fila
c3	=	0.00	cm	Copriferro ferri terza fila
i3	=	0.00	cm	Interasse ferri terza fila
As3	=	0.00	cmq	Area acciaio ferri terza fila
As	=	10.05	cmq	Area acciaio in zona tesa

Armatura longitudinale superiore (per sollecitazione  $M_x$  positiva)

d1	=	20	mm	Diametro ferri prima fila
c1	=	6.00	cm	Copriferro ferri prima fila
i1	=	20.00	cm	Interasse ferri prima fila
As'1	=	15.71	cmq	Area acciaio ferri prima fila
d2	=	0	mm	Diametro ferri seconda fila
c2	=	0.00	cm	Copriferro ferri seconda fila
i2	=	0.00	cm	Interasse ferri seconda fila
As'2	=	0.00	cmq	Area acciaio ferri seconda fila
d3	=	0	mm	Diametro ferri terza fila
c3	=	0.00	cm	Copriferro ferri terza fila
i3	=	0.00	cm	Interasse ferri terza fila
As'3	=	0.00	cmq	Area acciaio ferri terza fila
As'	=	15.71	cmq	Area acciaio in zona compressa

Armatura trasversale, staffe e/o ferri piegati (per sollecitazione  $V_y$ )

$\theta$  = 45 ° Inclinazione della biella di cls (standard: 45°)

Asw 1° ordine:

$\alpha$  = 90 ° staffe: 90°; ferri piegati: angolo minore di 90°

n° bracci = 5

$\varphi_1$  = 10 mm Diametro staffe primo ordine

s = 250 mm Passo delle staffe

#### 8.3.2.1 Attacco piedritto

Combinazione STR

Combinazioni di carico e verifica a pressoflessione retta

N+MX

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n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	SF MIN
1	STR 1	0.00	51.42	91.73	3.37
2	STR 2	0.00	47.83	91.71	3.62
3	STR 3	0.00	86.73	181.56	2.00
4	STR 4	0.00	120.04	192.30	1.44
5	STR 5	0.00	94.28	181.60	1.84
6	STR 6	0.00	69.54	78.67	2.49
7	STR 7	0.00	43.78	67.97	3.96
8	STR 8	0.00	118.98	172.81	1.46
9	STR 9	0.00	38.81	91.68	4.46
10	STR 10	0.00	35.21	91.66	4.92
11	STR 11	0.00	80.42	181.54	2.15
12	STR 12	0.00	113.73	192.27	1.52
13	STR 13	0.00	87.97	181.57	1.97
14	STR 14	0.00	63.23	78.65	2.74
15	STR 15	0.00	37.47	67.95	4.62
16	STR 16	0.00	112.67	172.78	1.54
17	STR 17	0.00	64.38	159.05	2.69
18	STR 18	0.00	92.89	168.23	1.86
19	STR 19	0.00	70.95	159.08	2.44
20	STR 20	0.00	52.11	77.06	3.32
21	STR 21	0.00	30.17	67.92	5.74
22	STR 22	0.00	64.04	91.78	2.70
23	STR 23	0.00	60.45	91.76	2.87
24	STR 24	0.00	93.04	181.59	1.86
25	STR 25	0.00	126.35	192.32	1.37
26	STR 26	0.00	100.59	181.62	1.72
27	STR 27	0.00	75.85	78.70	2.28
28	STR 28	0.00	50.09	68.00	3.46
29	STR 29	0.00	125.29	172.83	1.38
30	STR 30	0.00	89.62	159.15	1.93
31	STR 31	0.00	118.12	168.33	1.47
32	STR 32	0.00	96.18	159.18	1.80
33	STR 33	0.00	77.35	77.16	2.24
34	STR 34	0.00	55.41	68.02	3.13
35	STR 35	0.00	53.55	91.74	3.23
36	STR 36	0.00	49.95	91.72	3.47
37	STR 37	0.00	70.60	78.68	2.45
38	STR 38	0.00	44.84	67.97	3.86
39	STR 39	0.00	66.85	77.12	2.59
40	STR 40	0.00	44.91	67.98	3.86
41	STR 41	0.00	49.30	91.72	3.51
42	STR 42	0.00	45.71	91.70	3.79
43	STR 43	0.00	85.67	181.56	2.02
44	STR 44	0.00	118.98	192.30	1.46
45	STR 45	0.00	93.22	181.59	1.86
46	STR 46	0.00	68.48	78.67	2.53

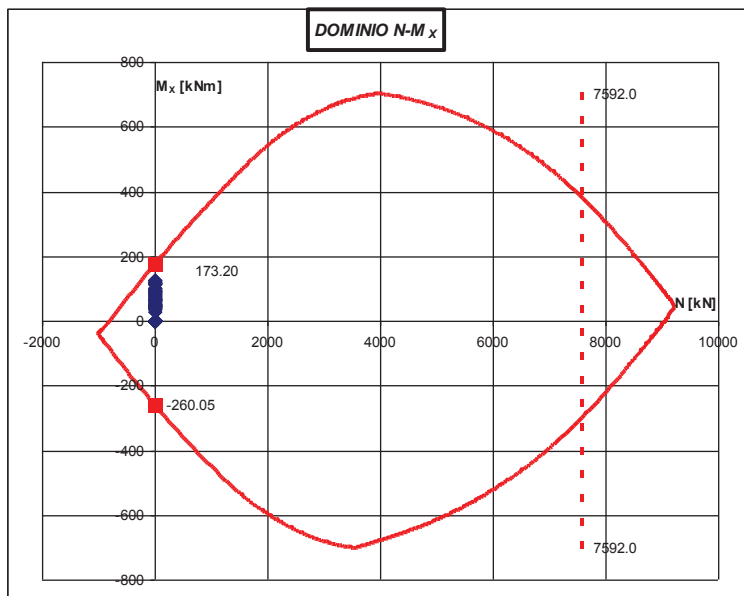
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### Combinazioni di carico e verifica a pressoflessione retta

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX SF MIN
47	STR 47	0.00	42.72	67.97	<b>4.05</b>
48	STR 48	0.00	117.92	172.81	<b>1.47</b>
49	STR 49	0.00	74.88	159.09	<b>2.31</b>
50	STR 50	0.00	103.38	168.27	<b>1.68</b>
51	STR 51	0.00	81.44	159.12	<b>2.13</b>
52	STR 52	0.00	62.61	77.11	<b>2.77</b>
53	STR 53	0.00	40.67	67.96	<b>4.26</b>



### Verifica a taglio della sezione maggiormente sollecitata:

Effetto positivo della compressione sul taglio: **NO**

Effetto positivo dei meccanismi pettine, bietta, ingranaggio... del cls: **NO**

Tipo di verifica a taglio: **Elemento armato a taglio.**

### Verifica a taglio ( V<sub>Y</sub> )

$$V_{sdy} = 192 \text{ kN}$$

$$V_{Rdy} = 210 \text{ kN}$$

$$SF = 1.09$$

Combinazione RAR

### Verifica tensioni in esercizio

$$N = 0.00 \text{ KN}$$

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M	=	92.87	KNm	
e	=	0.00	cm	
yn	=	9.49	cm	posizione asse neutro da lembo superiore
yg sup	=	9.49	cm	posizione del baricentro della sezione parzializzata
S* yg =	=	5084.07	cmc	momento statico rispetto all'asse neutro della sezione parzializzata
Ji =	=	201309.51	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	4.38	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	233.31	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=		MPa	
sigma s' min	=	-17.2	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=		MPa	

#### Combinazione FRE

##### Verifica a fessurazione

N	=	0.00	KN	azione assiale
M	=	81.06	KNm	azione flettente
N/M	=	0.00	1/m	rapporto fra azione assiale e flettente
Nf	=	0.00	KN	azione assiale per formazione fessure
Mf	=	130.71	KNm	azione flettente per formazione fessure
sigma sf	=	328.4	MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
yn f	=	9.49	cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

#### Combinazione QPE

##### Verifica tensioni in esercizio

N	=	0.00	KN	
M	=	48.76	KNm	
e	=	0.00	cm	
yn	=	9.49	cm	posizione asse neutro da lembo superiore
yg sup	=	9.49	cm	posizione del baricentro della sezione parzializzata
S* yg =	=	5084.07	cmc	momento statico rispetto all'asse neutro della sezione parzializzata
Ji =	=	201309.51	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	2.30	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	122.50	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=		MPa	
sigma s' min	=	-9.0	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=		MPa	

##### Verifica a fessurazione

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N	=	0.00 KN	azione assiale
M	=	48.76 KNm	azione flettente
N/M	=	0.00 1/m	rapporto fra azione assiale e flettente
Nf	=	0.00 KN	azione assiale per formazione fessure
Mf	=	130.71 KNm	azione flettente per formazione fessure
sigma sf	=	328.4 MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
yn f	=	9.49 cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

Il momento di formazione delle fessure è maggiore del momento sollecitante non è quindi necessario il calcolo dell'apertura delle fessure

### 8.3.2.2 Mezzeria

#### Combinazione STR

#### Combinazioni di carico e verifica a pressoflessione retta

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX SF MIN
1	STR 1	0.00	-97.56	-41.78	2.67
2	STR 2	0.00	-101.12	-41.78	2.57
3	STR 3	0.00	-195.86	-71.69	1.33
4	STR 4	0.00	-192.11	-53.09	1.35
5	STR 5	0.00	-188.37	-71.70	1.38
6	STR 6	0.00	-70.36	-12.36	3.70
7	STR 7	0.00	-66.61	-30.96	3.90
8	STR 8	0.00	-168.92	-39.35	1.54
9	STR 9	0.00	-110.10	-41.76	2.36
10	STR 10	0.00	-113.66	-41.76	2.29
11	STR 11	0.00	-202.13	-71.68	1.29
12	STR 12	0.00	-198.38	-53.08	1.31
13	STR 13	0.00	-194.64	-71.69	1.34
14	STR 14	0.00	-76.63	-12.35	3.39
15	STR 15	0.00	-72.88	-30.95	3.57
16	STR 16	0.00	-175.19	-39.34	1.48
17	STR 17	0.00	-184.72	-64.19	1.41
18	STR 18	0.00	-181.46	-48.32	1.43
19	STR 19	0.00	-178.21	-64.20	1.46
20	STR 20	0.00	-83.39	-15.06	3.12
21	STR 21	0.00	-80.14	-30.94	3.25
22	STR 22	0.00	-85.01	-41.81	3.06
23	STR 23	0.00	-88.58	-41.81	2.94
24	STR 24	0.00	-189.59	-71.70	1.37
25	STR 25	0.00	-185.84	-53.11	1.40
26	STR 26	0.00	-182.10	-71.71	1.43
27	STR 27	0.00	-64.09	-12.37	4.06
28	STR 28	0.00	-60.34	-30.97	4.31
29	STR 29	0.00	-162.65	-39.36	1.60

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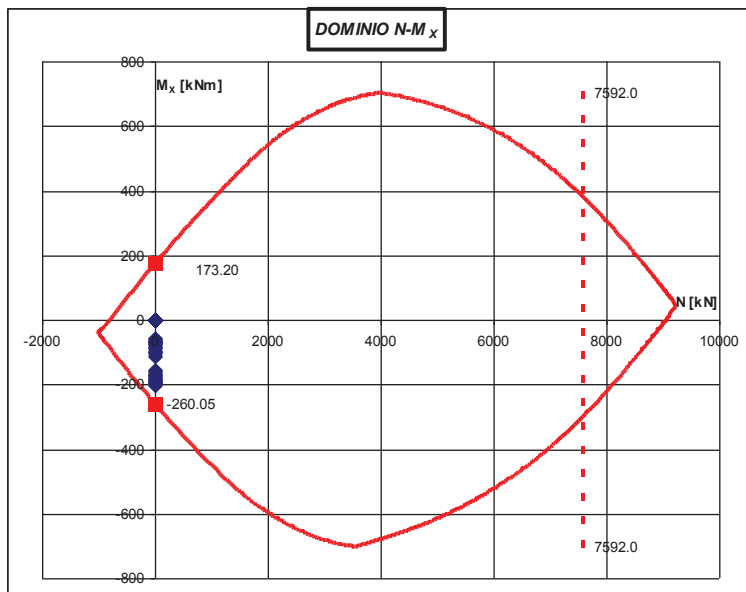
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### Combinazioni di carico e verifica a pressoflessione retta

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX SF MIN
30	STR 30	0.00	-159.63	-64.24	1.63
31	STR 31	0.00	-156.38	-48.37	1.66
32	STR 32	0.00	-153.12	-64.24	1.70
33	STR 33	0.00	-58.31	-15.11	4.46
34	STR 34	0.00	-55.05	-30.98	4.72
35	STR 35	0.00	-95.45	-41.79	2.72
36	STR 36	0.00	-99.01	-41.79	2.63
37	STR 37	0.00	-69.30	-12.36	3.75
38	STR 38	0.00	-65.56	-30.96	3.97
39	STR 39	0.00	-68.74	-15.09	3.78
40	STR 40	0.00	-65.49	-30.96	3.97
41	STR 41	0.00	-99.66	-41.78	2.61
42	STR 42	0.00	-103.23	-41.78	2.52
43	STR 43	0.00	-196.91	-71.69	1.32
44	STR 44	0.00	-193.17	-53.09	1.35
45	STR 45	0.00	-189.42	-71.70	1.37
46	STR 46	0.00	-71.41	-12.35	3.64
47	STR 47	0.00	-67.67	-30.96	3.84
48	STR 48	0.00	-169.97	-39.35	1.53
49	STR 49	0.00	-174.28	-64.21	1.49
50	STR 50	0.00	-171.03	-48.34	1.52
51	STR 51	0.00	-167.77	-64.22	1.55
52	STR 52	0.00	-72.96	-15.08	3.56
53	STR 53	0.00	-69.70	-30.96	3.73

APPROVATO SDP



**Verifica a taglio della sezione maggiormente sollecitata:**

Effetto positivo della compressione sul taglio:

NO

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Effetto positivo dei meccanismi pettine,  
bietta, ingranaggio... del cls:

NO

Tipo di verifica a taglio:

Elemento NON armato a taglio.

### Verifica a taglio ( $V_Y$ )

$$V_{sdY} = 72 \quad \text{kN}$$

$$V_{RdY} = 162 \quad \text{kN}$$

$$SF = 2.27$$

### Combinazione RAR

#### Verifica tensioni in esercizio

N	=	0.00	KN	
M	=	150.55	KNm	
e	=	0.00	cm	
yn	=	11.57	cm	posizione asse neutro da lembo superiore
yg sup	=	11.57	cm	posizione del baricentro della sezione parzializzata
S* yg =	=	7406.59	cmc	momento statico rispetto all'asse neutro della sezione parzializzata
Ji =	=	287813.73	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	6.05	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	246.65	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=		MPa	
sigma s' min	=	-37.4	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=		MPa	

### Combinazione FRE

#### Verifica a fessurazione

N	=	0.00	KN	azione assiale
M	=	131.96	KNm	azione flettente
N/M	=	0.00	1/m	rapporto fra azione assiale e flettente
Nf	=	0.00	KN	azione assiale per formazione fessure
Mf	=	133.65	KNm	azione flettente per formazione fessure
sigma sf	=	219.0	MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
yn f	=	11.57	cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

### Combinazione QPE

#### Verifica tensioni in esercizio

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N	=	0.00	KN	
M	=	78.41	KNm	
e	=	0.00	cm	
yn	=	11.57	cm	posizione asse neutro da lembo superiore
yg sup	=	11.57	cm	posizione del baricentro della sezione parzializzata
S* yg =	=	7406.59	cm <sup>2</sup>	momento statico rispetto all'asse neutro della sezione parzializzata
Ji =	=	287813.73	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	3.15	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	128.46	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=		MPa	
sigma s' min	=	-19.5	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=		MPa	

#### Verifica a fessurazione

N	=	0.00	KN	azione assiale
M	=	78.41	KNm	azione flettente
N/M	=	0.00	1/m	rapporto fra azione assiale e flettente
Nf	=	0.00	KN	azione assiale per formazione fessure
Mf	=	133.65	KNm	azione flettente per formazione fessure
sigma sf	=	219.0	MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
yn f	=	11.57	cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

Il momento di formazione delle fessure è maggiore del momento sollecitante non è quindi necessario il calcolo dell'apertura delle fessure

### 8.3.3 Piedritto

#### Disposizione armature

$M_x$ --- $V_y$
-----------------

Armatura longitudinale interna (per sollecitazione  $M_x$  positiva)

d1	=	12	mm	Diametro ferri prima fila
c1	=	6.00	cm	Copriferro ferri prima fila
i1	=	20.00	cm	Interasse ferri prima fila
As1	=	5.65	cm <sup>2</sup>	Area acciaio ferri prima fila
d2	=	0	mm	Diametro ferri seconda fila
c2	=	0.00	cm	Copriferro ferri seconda fila
i2	=	0.00	cm	Interasse ferri seconda fila
As2	=	0.00	cm <sup>2</sup>	Area acciaio ferri seconda fila
d3	=	0	mm	Diametro ferri terza fila
c3	=	0.00	cm	Copriferro ferri terza fila
i3	=	0.00	cm	Interasse ferri terza fila
As3	=	0.00	cm <sup>2</sup>	Area acciaio ferri terza fila
As	=	5.65	cm <sup>2</sup>	Area acciaio in zona tesa

Armatura longitudinale esterna (per sollecitazione  $M_x$  positiva)

d1	=	14	mm	Diametro ferri prima fila
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c1	=	6.00	cm	Copriferro ferri prima fila
i1	=	20.00	cm	Interasse ferri prima fila
As'1	=	7.70	cmq	Area acciaio ferri prima fila
d2	=	0	mm	Diametro ferri seconda fila
c2	=	0.00	cm	Copriferro ferri seconda fila
i2	=	0.00	cm	Interasse ferri seconda fila
As'2	=	0.00	cmq	Area acciaio ferri seconda fila
d3	=	0	mm	Diametro ferri terza fila
c3	=	0.00	cm	Copriferro ferri terza fila
i3	=	0.00	cm	Interasse ferri terza fila
As'3	=	0.00	cmq	Area acciaio ferri terza fila
As'	=	7.70	cmq	Area acciaio in zona compressa

### 8.3.3.1 Attacco soletta superiore

Combinazione STR

#### Combinazioni di carico e verifica a pressoflessione retta

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX
					SF MIN
1	STR 1	120.55	-51.23	21.13	2.79
2	STR 2	120.55	-49.77	6.82	2.87
3	STR 3	279.74	-118.27	15.41	1.46
4	STR 4	288.91	-139.90	36.13	1.25
5	STR 5	279.75	-121.01	48.86	1.43
6	STR 6	98.45	-58.82	28.98	2.36
7	STR 7	89.29	-39.93	41.71	3.43
8	STR 8	254.42	-133.00	42.60	1.27
9	STR 9	120.55	-62.78	31.31	2.28
10	STR 10	120.55	-61.33	17.00	2.33
11	STR 11	279.74	-124.05	20.50	1.40
12	STR 12	288.91	-145.67	41.22	1.20
13	STR 13	279.75	-126.78	53.95	1.37
14	STR 14	98.45	-64.60	34.07	2.15
15	STR 15	89.29	-45.70	46.80	3.00
16	STR 16	254.42	-138.78	47.69	1.21
17	STR 17	239.94	-112.70	23.45	1.47
18	STR 18	247.70	-131.06	41.07	1.27
19	STR 19	239.95	-115.12	52.11	1.44
20	STR 20	97.05	-67.11	36.07	2.06
21	STR 21	89.29	-51.16	47.11	2.68
22	STR 22	120.55	-39.67	10.95	3.60
23	STR 23	120.55	-38.22	-3.37	3.74
24	STR 24	279.74	-112.49	10.32	1.54
25	STR 25	288.91	-134.12	31.04	1.30
26	STR 26	279.75	-115.23	43.77	1.50
27	STR 27	98.45	-53.04	23.89	2.61
28	STR 28	89.29	-34.15	36.62	4.01

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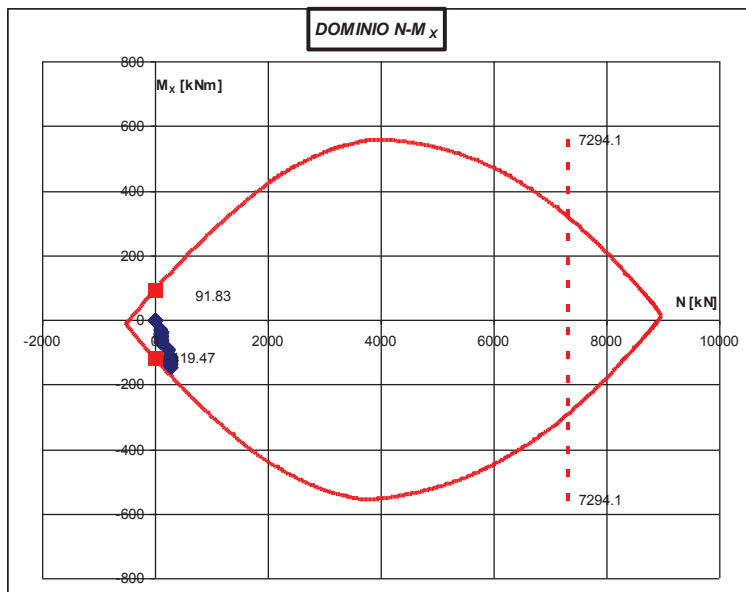
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**Combinazioni di carico e verifica a pressoflessione retta**

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX SF MIN
29	STR 29	254.42	-127.22	37.51	1.32
30	STR 30	239.94	-89.59	3.08	1.85
31	STR 31	247.70	-107.95	20.71	1.55
32	STR 32	239.95	-92.00	31.75	1.80
33	STR 33	97.05	-44.00	15.70	3.15
34	STR 34	89.29	-28.05	26.74	4.88
35	STR 35	120.55	-38.11	14.71	3.75
36	STR 36	120.55	-36.66	0.40	3.90
37	STR 37	98.45	-52.26	25.77	2.65
38	STR 38	89.29	-33.37	38.50	4.10
39	STR 39	97.05	-42.44	19.47	3.26
40	STR 40	89.29	-26.50	30.51	5.17
41	STR 41	120.55	-64.34	27.54	2.22
42	STR 42	120.55	-62.88	13.23	2.27
43	STR 43	279.74	-124.83	18.62	1.39
44	STR 44	288.91	-146.45	39.34	1.19
45	STR 45	279.75	-127.56	52.07	1.36
46	STR 46	98.45	-65.37	32.19	2.12
47	STR 47	89.29	-46.48	44.92	2.95
48	STR 48	254.42	-139.56	45.81	1.21
49	STR 49	239.94	-114.26	19.68	1.45
50	STR 50	247.70	-132.62	37.30	1.26
51	STR 51	239.95	-116.67	48.34	1.42
52	STR 52	97.05	-68.67	32.30	2.02
53	STR 53	89.29	-52.72	43.34	2.60

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**Verifica a taglio della sezione maggiormente sollecitata:**

Effetto positivo della compressione sul taglio: NO

Effetto positivo dei meccanismi pettine,  
bietta, ingranaggio... del cls: NO

Tipo di verifica a taglio: Elemento NON armato a taglio.

### Verifica a taglio ( $V_Y$ )

$$V_{sdY} = 54 \text{ kN}$$

$$V_{RdY} = 177 \text{ kN}$$

$$SF = 3.28$$

### Combinazione RAR

#### Verifica tensioni in esercizio

N	=	90.70	KN	
M	=	104.60	KNm	
e	=	115.33	cm	
yn	=	9.31	cm	posizione asse neutro da lembo superiore
yg sup	=	8.23	cm	posizione del baricentro della sezione parzializzata
S* yg =	=	3529.21	cmc	momento statico rispetto all'asse neutro della sezione parzializzata
Ji =	=	123200.93	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	6.93	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	323.40	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=		MPa	
sigma s' min	=	-30.3	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=		MPa	

### Combinazione SISSTR

#### Verifica tensioni in esercizio

N	=	114.13	KN	
M	=	91.31	KNm	
e	=	80.01	cm	
yn	=	9.88	cm	posizione asse neutro da lembo superiore
yg sup	=	8.30	cm	posizione del baricentro della sezione parzializzata
S* yg =	=	3588.14	cmc	momento statico rispetto all'asse neutro della sezione parzializzata
Ji =	=	123212.73	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	6.01	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	259.60	MPa	Verifica della tensione di esercizio nell'acciaio

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			soddisfatta
$\sigma_{s \min}$	=	MPa	
$\sigma_{s' \min}$	=	-29.9 MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
$\sigma_{s' \max}$	=	MPa	

#### Combinazione FRE

##### Verifica a fessurazione

N	=	90.70 KN	azione assiale
M	=	88.12 KNm	azione flettente
N/M	=	1.03 1/m	rapporto fra azione assiale e flettente
Nf	=	125.25 KN	azione assiale per formazione fessure
Mf	=	121.68 KNm	azione flettente per formazione fessure
$\sigma_{sf}$	=	363.3 MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
$y_n f$	=	9.55 cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

#### Combinazione QPE

##### Verifica tensioni in esercizio

N	=	92.53 KN	
M	=	45.11 KNm	
e	=	48.75 cm	
$y_n$	=	11.22 cm	posizione asse neutro da lembo superiore
$y_{g \sup}$	=	8.53 cm	posizione del baricentro della sezione parzializzata
$S^* y_g =$	=	3800.38 cmc	momento statico rispetto all'asse neutro della sezione parzializzata
$J_i =$	=	123324.26 cm <sup>4</sup>	momento di inerzia della sezione parzializzata
$\sigma_{c \max}$	=	2.91 MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
$\sigma_{s \max}$	=	105.43 MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
$\sigma_{s \min}$	=	MPa	
$\sigma_{s' \min}$	=	-18.0 MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
$\sigma_{s' \max}$	=	MPa	

##### Verifica a fessurazione

N	=	92.53 KN	azione assiale
M	=	45.11 KNm	azione flettente
N/M	=	2.05 1/m	rapporto fra azione assiale e flettente
Nf	=	272.87 KN	azione assiale per formazione fessure
Mf	=	133.03 KNm	azione flettente per formazione fessure
$\sigma_{sf}$	=	310.9 MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
$y_n f$	=	11.22 cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

Il momento di formazione delle fessure è maggiore del momento sollecitante non è quindi

necessario il calcolo dell'apertura delle fessure

### 8.3.3.2 Attacco soletta inferiore

*Combinazione STR*

#### Combinazioni di carico e verifica a pressoflessione retta

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX
					SF MIN
1	STR 1	154.72	62.81	37.35	<b>2.38</b>
2	STR 2	154.72	61.88	20.32	<b>2.42</b>
3	STR 3	313.92	111.04	11.73	<b>1.62</b>
4	STR 4	304.76	138.44	66.58	<b>1.28</b>
5	STR 5	313.92	113.46	45.87	<b>1.58</b>
6	STR 6	105.45	73.46	73.73	<b>1.91</b>
7	STR 7	114.61	48.47	53.02	<b>2.93</b>
8	STR 8	259.64	134.95	73.07	<b>1.25</b>
9	STR 9	154.72	51.45	27.17	<b>2.91</b>
10	STR 10	154.72	50.52	10.14	<b>2.96</b>
11	STR 11	313.92	105.36	6.64	<b>1.70</b>
12	STR 12	304.76	132.77	61.49	<b>1.34</b>
13	STR 13	313.92	107.78	40.77	<b>1.66</b>
14	STR 14	105.45	67.78	68.64	<b>2.07</b>
15	STR 15	114.61	42.80	47.93	<b>3.31</b>
16	STR 16	259.64	129.27	67.98	<b>1.31</b>
17	STR 17	274.12	87.39	3.70	<b>1.97</b>
18	STR 18	266.36	110.73	51.17	<b>1.54</b>
19	STR 19	274.12	89.44	33.55	<b>1.92</b>
20	STR 20	106.85	58.03	56.18	<b>2.42</b>
21	STR 21	114.61	36.75	38.56	<b>3.86</b>
22	STR 22	154.72	74.16	47.54	<b>2.02</b>
23	STR 23	154.72	73.23	30.51	<b>2.04</b>
24	STR 24	313.92	116.71	16.82	<b>1.54</b>
25	STR 25	304.76	144.12	71.67	<b>1.23</b>
26	STR 26	313.92	119.14	50.96	<b>1.51</b>
27	STR 27	105.45	79.13	78.82	<b>1.77</b>
28	STR 28	114.61	54.15	58.11	<b>2.62</b>
29	STR 29	259.64	140.63	78.16	<b>1.20</b>
30	STR 30	274.12	110.10	24.06	<b>1.56</b>
31	STR 31	266.36	133.44	71.54	<b>1.28</b>
32	STR 32	274.12	112.15	53.92	<b>1.53</b>
33	STR 33	106.85	80.74	76.54	<b>1.74</b>
34	STR 34	114.61	59.46	58.92	<b>2.38</b>
35	STR 35	154.72	64.13	43.77	<b>2.33</b>
36	STR 36	154.72	63.20	26.74	<b>2.37</b>
37	STR 37	105.45	74.12	76.94	<b>1.89</b>
38	STR 38	114.61	49.13	56.22	<b>2.89</b>
39	STR 39	106.85	70.71	72.77	<b>1.98</b>

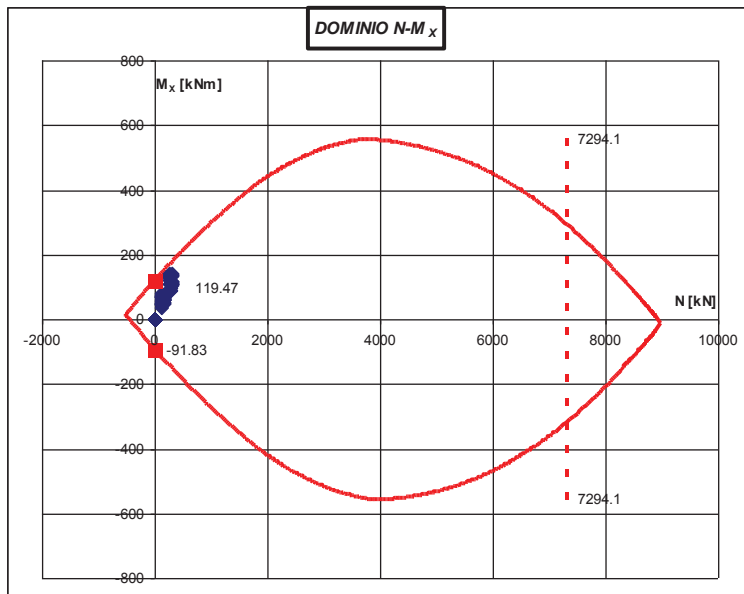
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### Combinazioni di carico e verifica a pressoflessione retta

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX SF MIN
40	STR 40	114.61	49.42	55.16	<b>2.87</b>
41	STR 41	154.72	61.49	30.94	<b>2.43</b>
42	STR 42	154.72	60.55	13.91	<b>2.47</b>
43	STR 43	313.92	110.38	8.52	<b>1.63</b>
44	STR 44	304.76	137.78	63.37	<b>1.29</b>
45	STR 45	313.92	112.80	42.66	<b>1.59</b>
46	STR 46	105.45	72.80	70.52	<b>1.92</b>
47	STR 47	114.61	47.81	49.81	<b>2.97</b>
48	STR 48	259.64	134.29	69.86	<b>1.26</b>
49	STR 49	274.12	97.43	7.46	<b>1.77</b>
50	STR 50	266.36	120.76	54.94	<b>1.41</b>
51	STR 51	274.12	99.48	37.32	<b>1.73</b>
52	STR 52	106.85	68.07	59.95	<b>2.06</b>
53	STR 53	114.61	46.78	42.33	<b>3.03</b>



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### Verifica a taglio della sezione maggiormente sollecitata:

Effetto positivo della compressione sul taglio: NO

Effetto positivo dei meccanismi pettine, bietta, ingranaggio... del cls: NO

Tipo di verifica a taglio: Elemento NON armato a taglio.

### Verifica a taglio ( V<sub>Y</sub> )

V<sub>sd Y</sub> = **79** kN  
V<sub>Rd Y</sub> = **177** kN

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SF = 2.24

*Combinazione RAR*

**Verifica tensioni in esercizio**

N	=	114.61	KN	
M	=	105.94	KNm	
e	=	92.44	cm	
yn	=	9.62	cm	posizione asse neutro da lembo superiore
yg sup	=	8.27	cm	posizione del baricentro della sezione parzializzata
S* yg =	=	3559.26	cmc	momento statico rispetto all'asse neutro della sezione parzializzata
Ji =	=	123205.89	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	7.00	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	312.71	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=		MPa	
sigma s' min	=	-33.0	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=		MPa	

*Combinazione SISSTR*

**Verifica tensioni in esercizio**

N	=	89.77	KN	
M	=	102.02	KNm	
e	=	113.65	cm	
yn	=	9.33	cm	posizione asse neutro da lembo superiore
yg sup	=	8.24	cm	posizione del baricentro della sezione parzializzata
S* yg =	=	3530.80	cmc	momento statico rispetto all'asse neutro della sezione parzializzata
Ji =	=	123201.14	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	6.75	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	314.57	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=		MPa	
sigma s' min	=	-29.7	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=		MPa	

*Combinazione FRE*

**Verifica a fessurazione**

N	=	114.61	KN	azione assiale
M	=	92.87	KNm	azione flettente

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N/M	=	1.23	1/m	rapporto fra azione assiale e flettente
Nf	=	152.76	KN	azione assiale per formazione fessure
Mf	=	123.79	KNm	azione flettente per formazione fessure
sigma sf	=	353.2	MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
yn f	=	9.85	cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

#### Combinazione QPE

#### Verifica tensioni in esercizio

N	=	112.78	KN	
M	=	56.52	KNm	
e	=	50.11	cm	
yn	=	11.12	cm	posizione asse neutro da lembo superiore
yg sup	=	8.51	cm	posizione del baricentro della sezione parzializzata
S* yg =	=	3781.15	cmc	momento statico rispetto all'asse neutro della sezione parzializzata
Ji =	=	123309.80	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	3.66	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	134.03	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=		MPa	
sigma s' min	=	-22.3	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=		MPa	

#### Verifica a fessurazione

N	=	112.78	KN	azione assiale
M	=	56.52	KNm	azione flettente
N/M	=	2.00	1/m	rapporto fra azione assiale e flettente
Nf	=	264.12	KN	azione assiale per formazione fessure
Mf	=	132.36	KNm	azione flettente per formazione fessure
sigma sf	=	313.9	MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
yn f	=	11.12	cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

Il momento di formazione delle fessure è maggiore del momento sollecitante non è quindi necessario il calcolo dell'apertura delle fessure

#### 8.3.3.3 Mezzeria

#### Combinazione STR

#### Combinazioni di carico e verifica a pressoflessione retta

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX SF MIN
1	STR 1	137.63	-38.51	-2.98	3.80
2	STR 2	137.63	-47.23	-4.37	3.10

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**Combinazioni di carico e verifica a pressoflessione retta**

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX SF MIN
3	STR 3	296.83	-106.06	4.22	<b>1.66</b>
4	STR 4	305.99	-104.38	24.94	<b>1.70</b>
5	STR 5	296.83	-87.26	4.71	<b>2.02</b>
6	STR 6	111.11	-31.35	17.79	<b>4.50</b>
7	STR 7	101.95	-14.23	-2.45	<b>9.79</b>
8	STR 8	271.51	-90.20	31.41	<b>1.90</b>
9	STR 9	137.63	-38.61	7.20	<b>3.79</b>
10	STR 10	137.63	-47.33	5.81	<b>3.09</b>
11	STR 11	296.83	-106.11	9.31	<b>1.66</b>
12	STR 12	305.99	-104.43	30.03	<b>1.70</b>
13	STR 13	296.83	-87.31	9.80	<b>2.02</b>
14	STR 14	111.11	-31.40	22.88	<b>4.49</b>
15	STR 15	101.95	-14.28	2.65	<b>9.76</b>
16	STR 16	271.51	-90.25	36.50	<b>1.90</b>
17	STR 17	257.03	-91.46	12.26	<b>1.85</b>
18	STR 18	264.79	-89.99	29.88	<b>1.89</b>
19	STR 19	257.03	-75.17	12.97	<b>2.25</b>
20	STR 20	109.71	-31.67	24.88	<b>4.45</b>
21	STR 21	101.95	-16.85	7.96	<b>8.27</b>
22	STR 22	137.63	-38.41	-13.17	<b>3.81</b>
23	STR 23	137.63	-47.13	-14.56	<b>3.10</b>
24	STR 24	296.83	-106.01	-0.87	<b>1.66</b>
25	STR 25	305.99	-104.33	19.85	<b>1.71</b>
26	STR 26	296.83	-87.21	-0.39	<b>2.02</b>
27	STR 27	111.11	-31.30	12.70	<b>4.51</b>
28	STR 28	101.95	-14.18	-7.54	<b>9.83</b>
29	STR 29	271.51	-90.15	26.32	<b>1.90</b>
30	STR 30	257.03	-91.26	-8.11	<b>1.85</b>
31	STR 31	264.79	-89.79	9.52	<b>1.90</b>
32	STR 32	257.03	-74.97	-7.40	<b>2.25</b>
33	STR 33	109.71	-31.46	4.51	<b>4.48</b>
34	STR 34	101.95	-16.65	-12.40	<b>8.37</b>
35	STR 35	137.63	-32.62	-9.40	<b>4.48</b>
36	STR 36	137.63	-41.34	-10.79	<b>3.54</b>
37	STR 37	111.11	-28.40	14.58	<b>4.97</b>
38	STR 38	101.95	-11.28	-5.65	<b>12.35</b>
39	STR 39	109.71	-25.67	8.28	<b>5.49</b>
40	STR 40	101.95	-10.85	-8.63	<b>12.84</b>
41	STR 41	137.63	-44.41	3.43	<b>3.29</b>
42	STR 42	137.63	-53.13	2.04	<b>2.75</b>
43	STR 43	296.83	-109.01	7.43	<b>1.62</b>
44	STR 44	305.99	-107.33	28.15	<b>1.66</b>
45	STR 45	296.83	-90.21	7.91	<b>1.95</b>
46	STR 46	111.11	-34.30	21.00	<b>4.11</b>

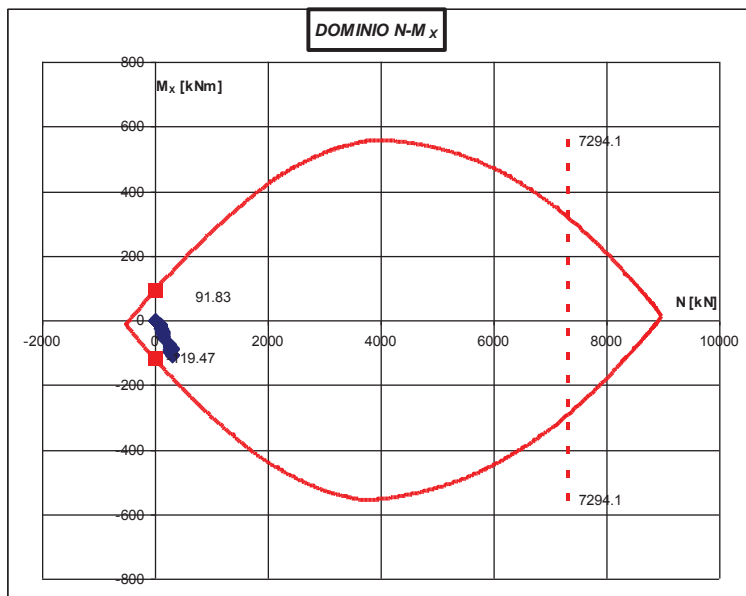
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**Combinazioni di carico e verifica a pressoflessione retta**

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX SF MIN
47	STR 47	101.95	-17.18	0.76	<b>8.11</b>
48	STR 48	271.51	-93.15	34.62	<b>1.84</b>
49	STR 49	257.03	-97.25	8.49	<b>1.74</b>
50	STR 50	264.79	-95.79	26.11	<b>1.78</b>
51	STR 51	257.03	-80.97	9.20	<b>2.09</b>
52	STR 52	109.71	-37.46	21.11	<b>3.76</b>
53	STR 53	101.95	-22.64	4.20	<b>6.15</b>


**Verifica a taglio della sezione maggiormente sollecitata:**

Effetto positivo della compressione sul taglio:

NO

 Effetto positivo dei meccanismi pettine,  
bietta, ingranaggio... del cls:

NO

Tipo di verifica a taglio:

Elemento NON armato a taglio.

**Verifica a taglio (  $V_Y$  )**

$$V_{sdY} = 37 \text{ kN}$$

$$V_{rdY} = 177 \text{ kN}$$

$$SF = 4.84$$

Combinazione RAR

**Verifica tensioni in esercizio**

$$N = 107.58 \text{ KN}$$

$$M = 79.56 \text{ KNm}$$

$$e = 73.95 \text{ cm}$$

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yn	=	10.04	cm	posizione asse neutro da lembo superiore
yg sup	=	8.32	cm	posizione del baricentro della sezione parzializzata
S* yg =	=	3608.15	cmc	momento statico rispetto all'asse neutro della sezione parzializzata
Ji =	=	123218.66	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	5.23	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	220.95	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=		MPa	
sigma s' min	=	-26.9	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=		MPa	

#### Combinazione SISSTR

##### Verifica tensioni in esercizio

N	=	77.12	KN	
M	=	10.22	KNm	
e	=	13.26	cm	
Ai	=	8.79	cmq	Area (Sezione ideale interamente reagente omogeneizzata a cls)
S*i sup	=	5.71	cmc	momento statico superiore
ygi sup	=	1628.12	cm	posizione del baricentro rispetto alla fibra superiore
Ji	=	19928.91	cm <sup>4</sup>	momento di inerzia
sigma c max	=	2.10	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	34.37	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=		MPa	
sigma s' min	=	-7.8	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=		MPa	

#### Combinazione FRE

##### Verifica a fessurazione

N	=	107.58	KN	azione assiale
M	=	65.76	KNm	azione flettente
N/M	=	1.64	1/m	rapporto fra azione assiale e flettente
Nf	=	209.69	KN	azione assiale per formazione fessure
Mf	=	128.17	KNm	azione flettente per formazione fessure
sigma sf	=	332.8	MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
yn f	=	10.50	cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

#### Combinazione QPE

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**Verifica tensioni in esercizio**

N	=	109.40	KN	
M	=	35.07	KNm	
e	=	32.05	cm	
yn	=	13.48	cm	posizione asse neutro da lembo superiore
yg sup	=	9.09	cm	posizione del baricentro della sezione parzializzata
S* yg =	=	4339.23	cmc	momento statico rispetto all'asse neutro della sezione parzializzata
Ji =	=	124063.37	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	2.17	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	59.82	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=		MPa	
sigma s' min	=	-16.6	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=		MPa	

**Verifica a fessurazione**

N	=	109.40	KN	azione assiale
M	=	35.07	KNm	azione flettente
N/M	=	3.12	1/m	rapporto fra azione assiale e flettente
Nf	=	459.93	KN	azione assiale per formazione fessure
Mf	=	147.42	KNm	azione flettente per formazione fessure
sigma sf	=	251.5	MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
yn f	=	13.48	cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

Il momento di formazione delle fessure è maggiore del momento sollecitante non è quindi necessario il calcolo dell'apertura delle fessure

APPROVATO SDP

### 8.3.4 Armatura di ripartizione dello scatolare

Così come previsto dal D.M. 14 gennaio 2008, si prevede un'armatura longitudinale in misura non inferiore al 20%. L'armatura per l'opera in oggetto risulta essere:

soletta superiore:	$\phi 12/20\text{cm}$
soletta inferiore:	$\phi 12/20\text{cm}$
soletta piedritti:	$\phi 12/20\text{cm}$

### 8.3.5 Verifica armatura longitudinale a ritiro

Viene verificata l'armatura longitudinale dello scatolare, ai fini della verifica si prenderà in considerazione la sola soletta superiore poiché presenta maggiori criticità geometriche e di esposizione all'aria rispetto gli altri elementi dello scatolare.

Nel seguito viene eseguita la verifica a fessurazione della soletta superiore:

#### Calcolo armatura longitudinale antiritiro

Si considera una sezione avente le seguenti caratteristiche geometriche :

Altezza soletta superiore	H =	500	mm
Larghezza unitaria soletta superiore	B =	1000	mm
R <sub>ck</sub> calcestruzzo	R <sub>ck</sub> =	40	N/mm <sup>2</sup>
	f <sub>ck</sub> =	33.2	N/mm <sup>2</sup>

#### Ritiro secondo paragrafo 11.2.10.6 delle N.T.C. 2008

Considerando:

$h_0 = 2 A_c / u =$	500	mm
$A_c =$ area della sezione in c.a. =	500000	mm <sup>2</sup>
$u =$ perimetro della sezione esposta all'aria =	2000	mm

La deformazione totale da ritiro si può esprimere come:

$$\epsilon_{cs} = \epsilon_{cd} + \epsilon_{ca}$$

dove:

$\epsilon_{cd} =$  deformazione per ritiro da essiccamento.

$\epsilon_{ca} =$  deformazione per ritiro autogeno.

Il valore medio a tempo infinito della deformazione per ritiro per essiccamento vale:


$$\epsilon_{cd,infinito} = k_h \times \epsilon_{c0}$$


Per un umidità relativa pari al 90% si ottiene un valore  $\epsilon_{c0} =$

Per spessori di soletta maggiori uguali a 500 mm si ha un valore di  $k_h =$

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-0.14 ‰  
0.7

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quindi

$$\epsilon_{cd,infinito} = k_h \times \epsilon_{c0} \quad -0.1005 \text{ ‰}$$

Lo sviluppo nel tempo della deformazione  $\epsilon_{cd}$  può essere valutato come:

$$\epsilon_{cd,t} = \beta_{ds} (t - t_s) \times \epsilon_{cd,infinito}$$

dove la funzione di sviluppo temporale assume la forma:

$$\beta_{ds} = (t - t_s) / [(t - t_s) + 0,04 \times h_0^{3/2}] = \quad 0.9889$$

$$t = \text{età del calcestruzzo nel momento considerato} = \quad 40000 \quad \text{gg}$$

( > 100 anni )

$$t_s = \text{età del calcestruzzo a partire dalla quale si considera l'effetto del ritiro} = \quad 28 \quad \text{gg}$$

(termine di maturazione)

quindi si ha:

$$\epsilon_{cd,t} = \quad -0.0993 \quad \text{‰}$$

Il valore medio della deformazione per ritiro autogeno vale:

$$\epsilon_{ca,infinito} = -2,5 (f_{ck} - 10) \times 10^{-6} = \quad -0.000058$$

quindi

$$\epsilon_{cs} = \epsilon_{cd} + \epsilon_{ca} = \quad -0.15734 \text{ ‰} \quad = \epsilon_{free}$$

Si valuta ora la deformazione per ritiro contrastato considerando quanto riportato al punto b dell'Annex M dell' Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 3 : Strutture di contenimento liquidi.

La deformazione totale da ritiro si può esprimere come:

$$\epsilon_{cs}^* = R_{ax} \times \epsilon_{free} = \quad -0.07867 \quad \text{‰}$$

$$\text{avendo assunto } R_{ax} = \quad 0.5$$

Da cui si ottiene:

$$R_{ax} \times \epsilon_{free} = (\epsilon_{sm} - \epsilon_{cm})$$

$$W_k = S_{R,max} \times (\epsilon_{sm} - \epsilon_{cm}) = S_{R,max} \times R_{ax} \times \epsilon_{free}$$

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$$S_{R,max} = 1,3 (h - X) \quad \text{per } i > 5 (c + \phi/2)$$

$$S_{R,max} = k_3 c + (k_1 k_2 k_4 \phi) / \rho_{p,eff} \quad \text{per } i \leq 5 (c + \phi/2)$$

Essendo:

$\phi =$	12	mm
$c =$	60	mm
$i =$	200	mm
$k_1 =$	0.8	per barre ad aderenza migliorata
$k_2 =$	1	per trazione pura
$k_3 =$	3.4	
$k_4 =$	0.425	
$h_{eff}$	83.33	mm
$A_s =$	1131	mm <sup>2</sup>
$A_{c,eff} =$	83333	mm <sup>2</sup>
$\rho_{p,eff} =$	0.01	

si ha:

$$5 (c + \phi/2) = 330 \quad \text{mm}$$

$$S_{R,max} = 504.63 \quad \text{mm} \quad \text{per } i \leq 5 (c + f/2)$$

$$w_k = 0.040 \quad \text{mm}$$

$$w_k < w_1 = 0.2 \text{ mm} \quad \text{'Verificato'}$$

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## 9 VERIFICHE GEOTECNICHE

### 9.1 Verifiche geotecniche scatolare principale

La verifica di capacità portante viene effettuata secondo l'Approccio I combinazione 2 (GEO) sia in condizioni statiche che in condizioni sismiche.

Si fa notare che, essendo lo scatolare una struttura rigida, le azioni orizzontali comportano dal lato sfavorevole una rapida diminuzione di spinta (da regime di  $K_0$  a regime di  $K_a$ ) che avviene per piccoli spostamenti, mentre dal lato resistente la spinta aumenta tendendo a  $K_p$  per cui, in definitiva, la struttura risulta autoequilibrata in direzione orizzontale. Ciò è particolarmente significativo nel caso in esame, considerando che per il terreno di reinterro il rapporto tra  $K_p$  e  $K_a$  è molto elevato (circa 20).

Poiché le verifiche di capacità portante sono eseguite allo stato limite ultimo (a cui corrispondono per definizione "grandi" spostamenti) si ritiene di poter considerare l'azione resistente massima in regime di spinta passiva.

Si tratta quindi di verificare che, per la combinazione di carico più gravosa, la massima spinta agente sia inferiore a quella resistente assicurando così l'equilibrio della struttura.

Nel caso in esame:

Azione resistente massima: 463.13 KN

Azione agente massima in condizioni statiche (combinazione GEO): 99.89 KN

Azione agente massima in condizioni sismiche (combinazione GEO): 170.08 KN

Dai calcoli sopra riportati si evince che la resistenza massima del terreno è largamente maggiore rispetto alle azioni agenti, per cui si ritiene la struttura equilibrata.

Ne consegue che per le verifiche di capacità portante si può ritenere nulla la risultante delle forze orizzontali e considerare unicamente l'azione verticale, che risulta massima per il caso statico per il quale si considerano agenti i carichi accidentali da traffico:

$N_{max} (GEO) = 640.30 \text{ KN}$

Per il caso sismico si trascura secondo normativa la componente verticale della spinta.

Per il dimensionamento geotecnico si fa riferimento alla seguente geometria:

WBS IDA16

Progressiva KM 4+595.04 asse Z

Profondità di posa Q.F.=129.62 m

Quota piano campagna Q=131.01 m

Quota falda di progetto non interessa l'opera Q<118.00 m sul livello del mare

Larghezza fondazione B=5.30 m

Larghezza alla base del rilevato autostradale in prossimità dello scatolare Bril: 26.00 m

Altezza del rilevato autostradale in prossimità dello scatolare Hril: 3.00 m (media)



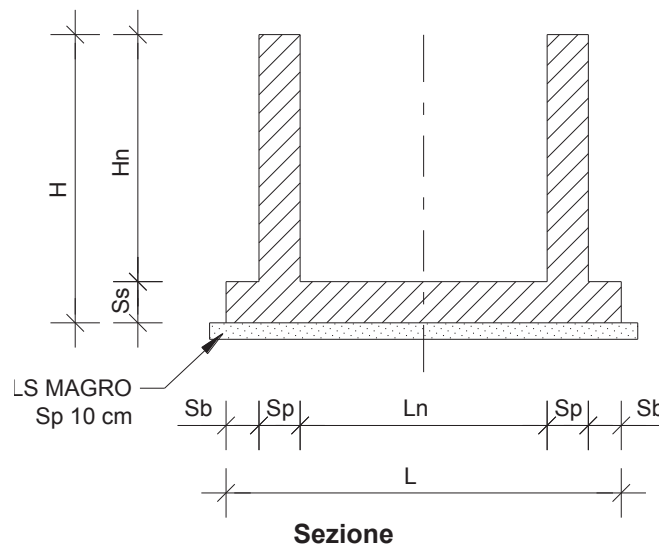
## 10 MURI AD U

Si identificano con “muri ad U” gli imbocchi del tombino scatolare, prosecuzione della canna stessa, con assenza di soletta superiore.

In favore di sicurezza la parte di struttura in oggetto è stata progettata e verificata considerando l'altezza di elevazione pari all'altezza del tombino.

### 10.1 Geometria

Di seguito viene descritta la geometria del muro ad U:



$$L_n = 4,00 \text{ m}$$

$$S_s = 0,50 \text{ m}$$

$$H_n = 2,00 \text{ m}$$

$$L = 5,30 \text{ m}$$

$$S_p = 0,45 \text{ m}$$

$$H = 2,50 \text{ m}$$

$$S_{sb} = 0,20 \text{ m}$$

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### 10.2 Condizioni di carico elementari

Nel seguente paragrafo si descrivono i carichi elementari da assumere per le verifiche di resistenza in esercizio ed in presenza dell'evento sismico.

Tali Combinazioni Elementari saranno opportunamente combinate secondo quanto previsto dalla normativa vigente.

Nei successivi paragrafi si riporta la metodologia adottata per l'analisi dei carichi condotta con un apposito foglio di calcolo con il quale sono state condotte tutte le verifiche e di cui a fine capitolo si riportano i tabulati.

### 10.3 Peso permanente della struttura

Il peso specifico del c.a. è  $\gamma_c = 25 \text{ kN/m}^3$

#### Soletta inferiore

- peso proprio

$$S_s * \gamma_c$$

$$\text{kN/m}^2$$


#### Piedritti

- peso proprio

$$S_p * \gamma_c$$

$$\text{kN/m}^2$$

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(Condizione Elementare CDC 1)

## 10.4 Spinta del terreno

Il reinterro a ridosso dello scatolare verrà realizzato tramite materiale arido di buone caratteristiche meccaniche. Per tale materiale, conformemente a quanto riportato nella relazione geotecnica del presente lotto, si ha:

$\gamma_t = 20,00 \text{ kN/m}^3$	peso specifico del terreno
$\gamma' = 11,00 \text{ kN/m}^3$	peso specifico del terreno sommerso
$\phi = 38^\circ$	angolo d'attrito
$c = 0$	coesione
$K_a = 0,238$	coefficiente di spinta attiva
$K_0 = 0,384$	coefficiente di spinta a riposo

Si applicano, di conseguenza, i valori delle spinte secondo la profondità con

$$p_h = K \gamma_t z$$

(Condizione Elementare CDC 3)

## 10.5 Azioni agenti sullo sbalzo fondazione

L'unica azione che agisce sullo sbalzo è il peso del terreno soprastante lo sbalzo stesso e, l'eventuale accidentale presente sul terrapieno.

- peso terreno soprastante  $H_n \cdot \gamma_t$  kN/m<sup>2</sup>

(Condizione Elementare CDC 2)

## 10.6 Azione sismica

(Condizione Elementare CDC 4)

### 10.6.1 Stato limite di salvaguardia della vita (SLV)

La risultante delle forze inerziali orizzontali indotte dal sisma viene valutata con la seguente espressione:

$$F_h = P \cdot k_h$$

$$(SLV) \quad k_h = \beta_m \cdot \frac{a_{max}}{g}$$

P = peso proprio;

k = coefficienti sismici;

Nel caso di sisma orizzontale si considera la spinta derivante dall'oscillazione del cuneo di terreno spingente con l'applicazione del diagramma triangolare di pressioni, tipico dei muri di sostegno, avente la risultante a 2/3 dell'altezza dalla base del piedritto. Per tener conto dell'incremento di spinta del terreno dovuta al sisma si fa riferimento al metodo di Wood, in cui l'incremento di spinta sismica  $\Delta P$  per la condizione a riposo viene valutato:

$$\Delta P_d = S \cdot a_g / g \cdot \gamma \cdot h_{tot}^2$$

La risultante di tale incremento di spinta viene applicata ad h/2 del piedritto.

Ai fini delle azioni orizzontali, sui piedritti si considera il contributo della sovraspinta sismica dovuto al sisma oscillatorio e le spinte inerziali agenti sui piedritti.

Ai fini delle azioni orizzontali :

- Spinta inerziale sui piedritti:

$$(S_p \cdot \gamma_c) \cdot k_h \quad \text{kN/m}^2$$

- Sovraspinta sismica :

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$S \cdot a_g / g \cdot \gamma \cdot H$

$kN/m^2$

### 10.6.2 Condizioni elementari di carico agenti sulla struttura

Si individuano tre condizioni di carico elementari da combinare con i coefficienti parziali delle azioni, per la determinazione delle sollecitazioni agenti sulla struttura:

**a.1) Condizione per lo SLU** (significativa per le verifiche del paramento e della fondazione nella sezione di attacco reciproco e nella sezione di mezzeria con trazione nelle fibre inferiori).

Azioni agenti: peso proprio del paramento (compreso anche il peso del terreno sopra il lato inclinato del paramento stesso), spinta del terreno, spinta della falda, spinta del sovraccarico accidentale in esercizio, peso sovrastruttura stradale e l' accidentale in fondazione.

**a.2) Condizione per lo SLE** (significativa per le verifiche del paramento e della fondazione nella sezione di attacco reciproco e nella sezione di mezzeria con trazione nelle fibre inferiori).

Azioni agenti: peso proprio del paramento (compreso anche il peso del terreno sopra il lato inclinato del paramento stesso), spinta del terreno, spinta della falda, spinta del sovraccarico accidentale in fessurazione peso sovrastruttura stradale e l' accidentale in fondazione.

**a.3) Condizione in fase di costruzione per lo SLU** (significativa per le verifiche nella mezzeria della fondazione con trazione nelle fibre superiori).

Azioni agenti: peso proprio della struttura (l'azione sollecitante è il peso proprio dell'elevazione).

### 10.7 Combinazioni di carico

Ai fini della determinazione dei valori caratteristici delle azioni dovute al traffico, si dovranno considerare, generalmente, le combinazioni riportate in Tab. 5.1. IV (NT).

Per le verifiche agli stati limite ultimi si adottano i valori dei coefficienti parziali delle azioni riportati in Tab. 5.1.V e i coefficienti di combinazione  $\Psi$  in Tab. 5.1.VI (NT).

Per le verifiche agli stati limite d'esercizio si adottano i valori dei coefficienti parziali in Tab. 5.1.VI (NT).

Le condizioni elementari di carico considerate sono di seguito riassunte:


CDC	Tipo	Sigla Id
1	Ggk	CDC=Ggk (peso proprio della struttura)
2	Gk	CDC=Gk (permanente)
3	Gk	CDC=Gk (spinta terre a riposo+spinta idraulica)
4	Qk	CDC=Qk (sisma)

I carichi caratteristici sopra elencati (CDC), al fine di ottenere le sollecitazioni di progetto per effettuare le successive verifiche, sono opportunamente combinati fra loro.

Al fine di determinare le combinazioni come da norma (§3.2 (NT)), si definisce la classificazione delle azioni e le combinazioni allo SLU e SLE.

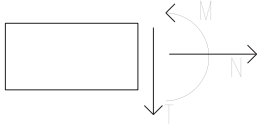
Le precedenti condizioni elementari di calcolo (CDC) sono combinate tra loro in modo da generare le massime sollecitazioni per lo SLU e SLE (combinazione 1 (A1+M1+R1) e combinazione 2 (A2+M2+R2)).

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Per quanto concerne le azioni dovute al traffico, data la tipologia di azioni da traffico agenti sulla struttura, i coefficienti parziali della tab. 5.1.V (NT) utilizzati sono quelli del gruppo 1.

Le convenzioni adottate per le sollecitazioni di segno positivo sono le seguenti.



Per determinare le sollecitazioni più gravose nelle varie sezioni, sono stati elaborati i risultati ottenuti nel calcolo agli elementi finiti secondo gli schemi di combinazione allo SLU o SLE (di cui alla tabella precedente), prendendo tutti i contributi (CMB) che creano le condizioni più sfavorevoli per la verifica in itinere.

Le combinazioni di carico sono riportate nel successivo capitolo insieme ai valori delle sollecitazioni ed ai risultati dell'analisi.

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## 1.1 Calcolo delle sollecitazioni

### CALCOLO MURI IN C.A.

TITOLO: MURO A U

#### PARAMETRI GEOMETRICI

##### Elevazione

H [m]	2.00	Altezza del terreno dall' estradosso della fondazione
DH [m]	0.00	Altezza del muro sopra il terreno
Htot [m]	2.00	Altezza totale del muro
p ant. [%]	0.00	Pendenza del paramento anteriore
p pos. [%]	0.00	Pendenza del paramento posteriore
Ss [m]	0.45	Spessore trasversale del muro in sommità all'elevazione
Sb [m]	0.45	Spessore trasversale del muro alla base dell'elevazione
Profond.	1.00	Profondità del tratto di struttura investigato

##### Fondazione

L [m]	5.30	Larghezza trasversale della fondazione
H [m]	0.50	Altezza del plinto di fondazione
L interna [m]	4.00	Larghezza fondazione fra elevazioni
L esterna [m]	0.20	Larghezza dello sbalzo esterno della fondazione

#### PARAMETRI SISMICI DEL TERRENO (D.M. 14-01-2008)

ag [g]	0.24	Accelerazione orizzontale del terreno
F <sub>o</sub>	2.45	Valore massimo del fattore di amplif. dello spettro in acceler. orizz.
Cat. Suolo	B	Categoria del sottosuolo
Cat. Topogr.	T1	Coefficiente di amplificazione topografica
S <sub>s</sub>	1.17	Coefficiente legato alla stratigrafia del suolo
S <sub>r</sub>	1.00	Coefficiente legato alla topografia del sito
S	1.17	Coeff. che comprende effetto amplif. stratigr.(S <sub>s</sub> ) e amplif. topogr.(S <sub>r</sub> )
b <sub>m</sub>	1.00	Coefficiente di riduzione dell'accelerazione massima attesa al sito
a <sub>max</sub> [g]	0.28	Accelerazione orizzontale massima attesa al sito
Kh	0.28	Coefficiente sismico orizzontale
Kv	0.14	Coefficiente sismico verticale
q1 [°]	18.01	arctg [ Kh / (1-Kv) ]
q2 [°]	13.79	arctg [ Kh / (1+Kv) ]


#### PARAMETRI GEOTECNICI DEL TERRENO

P [kN/mc]	20.00	Peso specifico del terreno
fi [°]	38.00	Angolo di attrito interno del terreno adiacente elevazione
fi t [°]	38.00	Angolo di attrito interno del terreno di fondazione
fi ass[°]	38.00	Angolo di attrito assunto per calcolo spinte
c att	0.78	Coefficiente di attrito fondazione - terreno
c' [kN/mc]	0.00	Coesione efficace del terreno
cu [kN/mc]	0.00	Coesione in condizioni non drenate del terreno
g c' (M1)	1.00	Coeff. di sicurezza per coesione efficace (Combinazione STR)
g c' (M2)	1.25	Coeff. di sicurezza per coesione efficace (Combinazione GEO)
g cu (M0)	1.00	Coeff. di sicurezza per coesione non drenata (Combinazione EQU)
g cu (M1)	1.00	Coeff. di sicurezza per coesione non drenata (Combinazione STR)
g cu (M2)	1.40	Coeff. di sicurezza per coesione non drenata (Combinazione GEO)
a [°]	0.00	Angolo di inclinazione del versante a tergo del muro
q [°]	18.01	Angolo per valutazione dei coefficienti di spinta in condizioni sismiche
ric [m]	0.00	Ricoprimento della parte anteriore della fondazione
Kr	0.00	Coefficiente di riduzione della spinta passiva
b [°]	0.00	Angolo di inclinazione del muro lato terreno
g f' (M1)	1.00	Coeff. di sicurezza per tangente angolo attrito (Combinazione STR)
g f' (M2)	1.25	Coeff. di sicurezza per tangente angolo attrito (Combinazione GEO)
K0	0.384	Coeff. di spinta attiva secondo Muller - Breslau per combinazioni SLE-SISMA

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K0 EQU	0.384Coeff. di spinta attiva secondo Muller - Breslau per combinazioni EQU
K0 STR	0.384Coeff. di spinta attiva secondo Muller - Breslau per combinazioni STR
K0 GEO	0.470Coeff. di spinta attiva secondo Muller - Breslau per combinazioni GEO
K0,s	0.384Coeff. di spinta attiva in condizioni sismiche per combinazioni SLE-SISMA
K0,s EQU	0.384Coeff. di spinta attiva in condizioni sismiche per combinazioni EQU
K0,s STR	0.384Coeff. di spinta attiva in condizioni sismiche per combinazioni STR
K0,s GEO	0.470Coeff. di spinta attiva in condizioni sismiche per combinazioni GEO
Kp	0.384Coeff. di spinta passiva con terreno a valle orizzontale per combinaz. SLE-SISMA
Kp EQU	0.384Coeff. di spinta passiva con terreno a valle orizzontale per combinaz. EQU
Kp STR	0.384Coeff. di spinta passiva con terreno a valle orizzontale per combinaz. STR
Kp GEO	0.470Coeff. di spinta passiva con terreno a valle orizzontale per combinaz. GEO
Kp,s	0.384Coeff. di spinta passiva in condizioni sismiche per combinazioni SLE-SISMA
Kp,s EQU	0.384Coeff. di spinta passiva in condizioni sismiche per combinazioni EQU
Kp,s STR	0.384Coeff. di spinta passiva in condizioni sismiche per combinazioni STR
Kp,s GEO	0.470Coeff. di spinta passiva in condizioni sismiche per combinazioni GEO
Kpr	0.000Coeff. di spinta passiva ridotto per combinazioni SLE-SISMA
Kpr EQU	0.000Coeff. di spinta passiva ridotto per combinazioni EQU
Kpr STR	0.000Coeff. di spinta passiva ridotto per combinazioni STR
Kpr GEO	0.000Coeff. di spinta passiva ridotto per combinazioni GEO

#### CARICHI ACCIDENTALI

qp [KN/mq]	0.00Sovraccarico permanente a tergo del muro
d1 [m]	0.00Quota del baric. sovrac. perm. dalla quota testa elev.
N p [t]	0.00Forza verticale permanente in testa al muro
d2 [m]	0.00Quota del baric. forza vert. perm. dalla quota testa elev.
q [KN/mq]	20.00Sovraccarico accidentale a tergo del muro
qs [kN/mq]	0.00Sovracc. acc. a tergo del muro in presenza di sisma al metro di profondità
K acc [%]	100Coeff. di applicazione del sovraccarico accidentale
Macc [KNm]	0.00Momento flettente accidentale in testa al muro
Tacc [KN]	0.00Taglio orizzontale accidentale in testa al muro
Nacc [KN]	0.00Forza verticale accidentale in testa al muro
M acc s [KNm]	0.00Momento flett. acc. in testa al muro (positivo se instabilizzante) con sisma
Tacc s [KN]	0.00Taglio orizzontale accidentale in testa al muro in presenza di sisma
Nacc s [KN]	0.00Forza verticale accidentale in testa al muro in presenza di sisma

#### COEFFICIENTI DI RIDUZIONE SPINTE SU ELEVAZIONE DESTRA

Ka rid [%]	100.0percentuale di riduzione spinta del terreno su elevazione destra
Kperm rid [%]	100.0percentuale di riduzione carichi permanenti su elevazione destra
Kacc rid [%]	100.0percentuale di riduzione carichi accidentali su elevazione destra

#### AZIONI INDOTTE DAL PESO PROPRIO, TERRENO, ACQUA E CARICHI ACCIDENTALI

##### Condizioni di carico

Fv [kN] :	Azione vert. dovuta al peso proprio e al carico applicato sul muro
Mg (Fv) [kNm] :	Mom. flett. alla base dell'elev. o al baric. della fondaz. a seconda dei casi
Mr (Fv) [kNm] :	Mom. flett. rispetto al punto di ribaltamento della fondazione
Fh [kN] :	Forza orizz. dovuta alla spinta del terr. e alla presenza dei carichi applicati
Fhs [kN] :	Forza orizz. dovuta agli increm. sism. della spinta del terr. + carichi appl.
Mg [kNm] :	Momento flett. dovuto alle azioni orizz.
Mgs [kNm] :	Momento flett. dovuto all'incremento sismico
Mr [kNm] :	Momento flett. dovuto alle azioni orizz.
Mrs [kNm] :	Momento flett. dovuto all'incremento sismico
Fi h [kN] :	Forza d'inerzia orizzontale, considerata nelle combinazioni sismiche
Fi v [kN] :	Forza d'inerzia verticale, considerata nelle combinazioni sismiche
Mg i [kNm] :	Mom. flett. base elev. o baric. fondaz. dovuto a forze inerzia
Mr i [kNm] :	Mom. flett. ribaltamento dovuto a forze inerzia

p.p.	Peso proprio
t. post.	Terreno a tergo dell'elevazione

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t. ant. Terreno a valle dell'elevazione  
 q perm. Sovraccarico permanente  
 N p Azioni in testa muro permanenti  
 q acc. Sovraccarico accidentale  
 N, V, M acc. Azioni in testa muro accidentali

		SLE-SISMA	SLE-SISMA	EQU	STR	STR	GEO
		B. e.	B. f.	B. f.	B. e.	B. f.	B. f.
p.p.	Fv	22.5	111.3	111.3	22.5	111.3	111.3
	Mg()	0.0	0.0	0.0	0.0	0.0	0.0
	Mr()	0.0	-294.8	-294.8	0.0	-294.8	-294.8
	Fh	0.0	0.0	0.0	0.0	0.0	0.0
	Fhs	0.0	0.0	0.0	0.0	0.0	0.0
	Mg	0.0	0.0	0.0	0.0	0.0	0.0
	Mgs	0.0	0.0	0.0	0.0	0.0	0.0
	Mr	0.0	0.0	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0	0.0	0.0
	Fi h	6.3	28.5	28.5	6.3	28.5	28.5
	Fi v	0.0	0.0	0.0	0.0	0.0	0.0
	Mg i	6.3	22.9	22.9	6.3	22.9	22.9
Mr i	0.0	22.9	22.9	0.0	22.9	22.9	
t. post.	Fv	0.0	16.0	16.0	0.0	16.0	16.0
	Mg()	0.0	0.0	0.0	0.0	0.0	0.0
	Mr()	0.0	-42.4	-42.4	0.0	-42.4	-42.4
	Fh	15.4	0.0	0.0	15.4	0.0	0.0
	Fhs	22.4	0.0	0.0	22.4	0.0	0.0
	Mg	10.2	0.0	0.0	10.2	0.0	0.0
	Mgs	22.4	0.0	0.0	22.4	0.0	0.0
	Mr	0.0	0.0	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0	0.0	0.0
	Fi h	0.0	4.5	4.5	0.0	4.5	4.5
	Fi v	0.0	0.0	0.0	0.0	0.0	0.0
	Mg i	0.0	6.7	6.7	0.0	6.7	6.7
Mr i	0.0	6.7	6.7	0.0	6.7	6.7	
t. ant.	Fv	0.0	0.0	0.0	0.0	0.0	0.0
	Mg()	0.0	0.0	0.0	0.0	0.0	0.0
	Mr()	0.0	0.0	0.0	0.0	0.0	0.0
	Fh	0.0	0.0	0.0	0.0	0.0	0.0
	Fhs	0.0	0.0	0.0	0.0	0.0	0.0
	Mg	0.0	0.0	0.0	0.0	0.0	0.0
	Mgs	0.0	0.0	0.0	0.0	0.0	0.0
	Mr	0.0	0.0	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0	0.0	0.0
	Fi h	0.0	0.0	0.0	0.0	0.0	0.0
	Fi v	0.0	0.0	0.0	0.0	0.0	0.0
	Mg i	0.0	0.0	0.0	0.0	0.0	0.0
Mr i	0.0	0.0	0.0	0.0	0.0	0.0	
q perm.	Fv	0.0	0.0	0.0	0.0	0.0	0.0
	Mg()	0.0	0.0	0.0	0.0	0.0	0.0
	Mr()	0.0	0.0	0.0	0.0	0.0	0.0
	Fh	0.0	0.0	0.0	0.0	0.0	0.0
	Fhs	0.0	0.0	0.0	0.0	0.0	0.0
	Mg	0.0	0.0	0.0	0.0	0.0	0.0
	Mgs	0.0	0.0	0.0	0.0	0.0	0.0
	Mr	0.0	0.0	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0	0.0	0.0
	Fi h	0.0	0.0	0.0	0.0	0.0	0.0

	Fi v	0.0	0.0	0.0	0.0	0.0	0.0
	Mg i	0.0	0.0	0.0	0.0	0.0	0.0
	Mr i	0.0	0.0	0.0	0.0	0.0	0.0
N p	Fv	0.0	0.0	0.0	0.0	0.0	0.0
	Mg()	0.0	0.0	0.0	0.0	0.0	0.0
	Mr()	0.0	0.0	0.0	0.0	0.0	0.0
	Fh	0.0	0.0	0.0	0.0	0.0	0.0
	Fhs	0.0	0.0	0.0	0.0	0.0	0.0
	Mg	0.0	0.0	0.0	0.0	0.0	0.0
	Mgs	0.0	0.0	0.0	0.0	0.0	0.0
	Mr	0.0	0.0	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0	0.0	0.0
	Fi h	0.0	0.0	0.0	0.0	0.0	0.0
	Fi v	0.0	0.0	0.0	0.0	0.0	0.0
	Mg i	0.0	0.0	0.0	0.0	0.0	0.0
	Mr i	0.0	0.0	0.0	0.0	0.0	0.0
q acc.	Fv	0.0	8.0	8.0	0.0	8.0	8.0
	Mg()	0.0	0.0	0.0	0.0	0.0	0.0
	Mr()	0.0	-21.2	-21.2	0.0	-21.2	-21.2
	Fh	15.4	0.0	0.0	15.4	0.0	0.0
	Fhs	11.2	0.0	0.0	11.2	0.0	0.0
	Mg	15.4	0.0	0.0	15.4	0.0	0.0
	Mgs	11.2	0.0	0.0	11.2	0.0	0.0
	Mr	0.0	0.0	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0	0.0	0.0
	Fi h	0.0	0.0	0.0	0.0	0.0	0.0
	Fi v	0.0	0.0	0.0	0.0	0.0	0.0
	Mg i	0.0	0.0	0.0	0.0	0.0	0.0
	Mr i	0.0	0.0	0.0	0.0	0.0	0.0
N, M, V acc.	Fv	0.0	0.0	0.0	0.0	0.0	0.0
	Mg()	0.0	0.0	0.0	0.0	0.0	0.0
	Mr()	0.0	0.0	0.0	0.0	0.0	0.0
	Fh	0.0	0.0	0.0	0.0	0.0	0.0
	Fhs	0.0	0.0	0.0	0.0	0.0	0.0
	Mg	0.0	0.0	0.0	0.0	0.0	0.0
	Mgs	0.0	0.0	0.0	0.0	0.0	0.0
	Mr	0.0	0.0	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0	0.0	0.0
	Fi h	0.0	0.0	0.0	0.0	0.0	0.0
	Fi v	0.0	0.0	0.0	0.0	0.0	0.0
	Mg i	0.0	0.0	0.0	0.0	0.0	0.0
	Mr i	0.0	0.0	0.0	0.0	0.0	0.0

**COMBINAZIONI DI CARICO**

 Coefficienti  $g_i$  di moltiplicazione delle azioni in accordo al D.M. 14-01-2008:

CARICHI	EFFETTO	COEFF. PARZIALE	SLE-SISMA	EQU	STR (A1)	GEO (A2)
PERMANENTI	Favorevole	$g_{C1}$	1.00	0.90	1.00	1.00
	Sfavorevole			1.10	1.35	1.00
PERMANENTI NON STRUTT.	Favorevole	$g_{C2}$	1.00	0.00	0.00	0.00
	Sfavorevole			1.50	1.35	1.15
VARIABILI	Favorevole	$g_{Q1}$	1.00	0.00	0.00	0.00
	Sfavorevole			1.50	1.35	1.15

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 Coefficienti  $\gamma_i$  di moltiplicazione delle azioni in accordo al D.M. 14-01-2008:





y 0	1	Combinazione caratteristica (rara) e fondamentale (SLU)
y 1	0.75	Combinazione frequente
y 2	0.2	Combinazione sismica e quasi permanente (Q.P.)

Comb.	p.p.	t. post.	t. ant.	q perm.	N p	q acc.	N,V,Macc.
1-GEO-BF	1	1	0	1	1	1.15	1.15
2-SISMA-BF	1	1	0	1	1	1	1
3-STR-BF	1.35	1.35	0	1.35	1.35	1.35	1.35
4-STR-BF	1	1.35	0	1.35	1.35	1.35	1.35
5-TA-RARA-BF	1	1	0	1	1	1	1
6-TA-FREQ-BF	1	1	0	1	1	1	1
7-TA-Q.P.-BF	1	1	0	1	1	1	1
8-STR-BE	1	1.35	0	1.35	1	1.35	1.35
9-STR-BE	1.35	1.35	0	1.35	1.35	1.35	1.35
10-SISMA-BE	1	1	0	1	1	1	1
11-TA-RARA-BE	1	1	0	1	1	1	1
12-TA-FREQ-BE	1	1	0	1	1	1	1
13-TA-Q.P.-BE	1	1	0	1	1	1	1

Comb.	S.L.	Posiz.	N [kN]	Mg [kNm]	Mr [kNm]	Fh [kN]
1	GEO	BF	136.5	0.0	-361.6	0.0
2	SISMA	BF	127.3	29.6	-307.6	33.0
3	STR	BF	182.6	0.0	-483.9	0.0
4	STR	BF	143.7	0.0	-380.7	0.0
5	TA-RARA	BF	135.3	0.0	-358.4	0.0
6	TA-FREQ	BF	133.3	0.0	-353.1	0.0
7	TA-Q.P.	BF	128.9	0.0	-341.5	0.0
8	STR	BE	22.5	34.6	0.0	41.5
9	STR	BE	30.4	34.6	0.0	41.5
10	SISMA	BE	22.5	38.9	0.0	44.0
11	TA-RARA	BE	22.5	25.6	0.0	30.7
12	TA-FREQ	BE	22.5	21.8	0.0	26.9
13	TA-Q.P.	BE	22.5	13.3	0.0	18.4

**AZIONI E SOLLECITAZIONI NELLA STRUTTURA**
**Base fondazione**

		N [KN]	M [KNm]	T [KN]
Comb. 1	GEO	136.45	0.00	0.00
Comb. 2	SISMA	127.25	29.56	32.96
Comb. 3	STR	182.59	0.00	0.00
Comb. 4	STR	143.65	0.00	0.00
Comb. 5	TA-RARA	135.25	0.00	0.00
Comb. 6	TA-FREQ	133.25	0.00	0.00
Comb. 7	TA-Q.P.	128.85	0.00	0.00

**Sezioni di base elevazione**

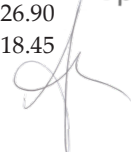
		elevazione sinistra			elevazione destra		
		N [KN]	M [KNm]	T [KN]	N [KN]	M [KNm]	T [KN]
Comb. 8	STR	22.50	34.59	41.51	22.50	34.59	41.51
Comb. 9	STR	30.38	34.59	41.51	30.38	34.59	41.51
Comb. 10	SISMA	22.50	38.91	44.04	22.50	38.91	44.04
Comb. 11	TA-RARA	22.50	25.62	30.75	22.50	25.62	30.75
Comb. 12	TA-FREQ	22.50	21.78	26.90	22.50	21.78	26.90
Comb. 13	TA-Q.P.	22.50	13.32	18.45	22.50	13.32	18.45

**VERIFICA DELLA CAPACITA' LIMITE ULTIMA DEL TERRENO**

Comb. 1                      Comb. 2

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M [KNm]	0.00	29.56
N [KN]	136.45	127.25
H [KN]	0.00	32.96
e [m]	0.00	0.23
B' [m]	5.30	4.84
D [m]	0.50	0.50
q [KN/mq]	10.00	10.00
Ng	71.40	71.40
Nq	61.35	61.35
Nc	76.75	76.75
In condizioni drenate		
ig	1.00	0.55
iq	1.00	0.76
ic	1.00	0.76
dq	1.03	1.02
dc	1.03	1.02

**AZIONI E SOLLECITAZIONI NELLE SEZIONI DELLA FONDAZIONE**

		T.A.			
		Sbalzo	Incastro sx	Mezzeria	Incastro dx
p.p.	Fv	2.5	30.6	55.6	80.6
	Mg()	0.3	7.7	94.0	230.2
	Mr()	0.0	0.0	0.0	0.0
	Fh	0.0	0.0	0.0	0.0
	Fhs	0.0	0.0	0.0	0.0
	Mg	0.0	0.0	0.0	0.0
	Mgs	0.0	0.0	0.0	0.0
	Mr	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0
	Fi h	0.0	6.3	6.3	6.3
	Fi v	0.0	0.0	0.0	0.0
	Mg i	0.0	-7.9	-7.9	-7.9
	Mr i	0.0	0.0	0.0	0.0
t. post.	Fv	8.0	8.0	8.0	8.0
	Mg()	0.8	4.4	20.4	36.4
	Mr()	0.0	0.0	0.0	0.0
	Fh	0.0	24.0	24.0	24.0
	Fhs	0.0	35.0	35.0	35.0
	Mg	0.0	-14.0	-14.0	-14.0
	Mgs	0.0	-35.0	-35.0	-35.0
	Mr	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0
	Fi h	0.0	2.2	2.2	2.2
	Fi v	0.0	0.0	0.0	0.0
	Mg i	0.0	-2.8	-2.8	-2.8
	Mr i	0.0	0.0	0.0	0.0
t. ant.	Fv	0.0	0.0	0.0	0.0
	Mg()	0.0	0.0	0.0	0.0
	Mr()	0.0	0.0	0.0	0.0
	Fh	0.0	0.0	0.0	0.0
	Fhs	0.0	0.0	0.0	0.0
	Mg	0.0	0.0	0.0	0.0
	Mgs	0.0	0.0	0.0	0.0
	Mr	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0
	Fi h	0.0	0.0	0.0	0.0

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	Fi v	0.0	0.0	0.0	0.0
	Mg i	0.0	0.0	0.0	0.0
	Mr i	0.0	0.0	0.0	0.0
q perm.	Fv	0.0	0.0	0.0	0.0
	Mg()	0.0	0.0	0.0	0.0
	Mr()	0.0	0.0	0.0	0.0
	Fh	0.0	0.0	0.0	0.0
	Fhs	0.0	0.0	0.0	0.0
	Mg	0.0	0.0	0.0	0.0
	Mgs	0.0	0.0	0.0	0.0
	Mr	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0
	Fi h	0.0	0.0	0.0	0.0
	Fi v	0.0	0.0	0.0	0.0
	Mg i	0.0	0.0	0.0	0.0
	Mr i	0.0	0.0	0.0	0.0
N p	Fv	0.0	0.0	0.0	0.0
	Mg()	0.0	0.0	0.0	0.0
	Mr()	0.0	0.0	0.0	0.0
	Fh	0.0	0.0	0.0	0.0
	Fhs	0.0	0.0	0.0	0.0
	Mg	0.0	0.0	0.0	0.0
	Mgs	0.0	0.0	0.0	0.0
	Mr	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0
	Fi h	0.0	0.0	0.0	0.0
	Fi v	0.0	0.0	0.0	0.0
	Mg i	0.0	0.0	0.0	0.0
	Mr i	0.0	0.0	0.0	0.0
q acc.	Fv	4.0	4.0	4.0	4.0
	Mg()	0.4	2.2	10.2	18.2
	Mr()	0.0	0.0	0.0	0.0
	Fh	0.0	19.2	19.2	19.2
	Fhs	0.0	14.0	14.0	14.0
	Mg	0.0	-19.2	-19.2	-19.2
	Mgs	0.0	-14.0	-14.0	-14.0
	Mr	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0
	Fi h	0.0	0.0	0.0	0.0
	Fi v	0.0	0.0	0.0	0.0
	Mg i	0.0	0.0	0.0	0.0
	Mr i	0.0	0.0	0.0	0.0
N, M, V acc.	Fv	0.0	0.0	0.0	0.0
	Mg()	0.0	0.0	0.0	0.0
	Mr()	0.0	0.0	0.0	0.0
	Fh	0.0	0.0	0.0	0.0
	Fhs	0.0	0.0	0.0	0.0
	Mg	0.0	0.0	0.0	0.0
	Mgs	0.0	0.0	0.0	0.0
	Mr	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0
	Fi h	0.0	0.0	0.0	0.0
	Fi v	0.0	0.0	0.0	0.0
	Mg i	0.0	0.0	0.0	0.0
	Mr i	0.0	0.0	0.0	0.0

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		STR			
		Sbalzo	Incastro sx	Mezzeria	Incastro dx
p.p.	Fv	2.5	30.6	55.6	80.6
	Mg()	0.3	7.7	94.0	230.2
	Mr()	0.0	0.0	0.0	0.0
	Fh	0.0	0.0	0.0	0.0
	Fhs	0.0	0.0	0.0	0.0
	Mg	0.0	0.0	0.0	0.0
	Mgs	0.0	0.0	0.0	0.0
	Mr	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0
	Fi h	0.0	6.3	6.3	6.3
	Fi v	0.0	0.0	0.0	0.0
	Mg i	0.0	-7.9	-7.9	-7.9
	Mr i	0.0	0.0	0.0	0.0
t. post.	Fv	8.0	8.0	8.0	8.0
	Mg()	0.8	4.4	20.4	36.4
	Mr()	0.0	0.0	0.0	0.0
	Fh	0.0	24.0	24.0	24.0
	Fhs	0.0	35.0	35.0	35.0
	Mg	0.0	-14.0	-14.0	-14.0
	Mgs	0.0	-35.0	-35.0	-35.0
	Mr	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0
	Fi h	0.0	2.2	2.2	2.2
	Fi v	0.0	0.0	0.0	0.0
	Mg i	0.0	-2.8	-2.8	-2.8
	Mr i	0.0	0.0	0.0	0.0
t. ant.	Fv	0.0	0.0	0.0	0.0
	Mg()	0.0	0.0	0.0	0.0
	Mr()	0.0	0.0	0.0	0.0
	Fh	0.0	0.0	0.0	0.0
	Fhs	0.0	0.0	0.0	0.0
	Mg	0.0	0.0	0.0	0.0
	Mgs	0.0	0.0	0.0	0.0
	Mr	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0
	Fi h	0.0	0.0	0.0	0.0
	Fi v	0.0	0.0	0.0	0.0
	Mg i	0.0	0.0	0.0	0.0
	Mr i	0.0	0.0	0.0	0.0
q perm.	Fv	0.0	0.0	0.0	0.0
	Mg()	0.0	0.0	0.0	0.0
	Mr()	0.0	0.0	0.0	0.0
	Fh	0.0	0.0	0.0	0.0
	Fhs	0.0	0.0	0.0	0.0
	Mg	0.0	0.0	0.0	0.0
	Mgs	0.0	0.0	0.0	0.0
	Mr	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0
	Fi h	0.0	0.0	0.0	0.0
	Fi v	0.0	0.0	0.0	0.0
	Mg i	0.0	0.0	0.0	0.0
	Mr i	0.0	0.0	0.0	0.0
	Fv	0.0	0.0	0.0	0.0
	Mg()	0.0	0.0	0.0	0.0

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N p	Mr()	0.0	0.0	0.0	0.0
	Fh	0.0	0.0	0.0	0.0
	Fhs	0.0	0.0	0.0	0.0
	Mg	0.0	0.0	0.0	0.0
	Mgs	0.0	0.0	0.0	0.0
	Mr	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0
	Fi h	0.0	0.0	0.0	0.0
	Fi v	0.0	0.0	0.0	0.0
	Mg i	0.0	0.0	0.0	0.0
	Mr i	0.0	0.0	0.0	0.0
q acc.	Fv	4.0	4.0	4.0	4.0
	Mg()	0.4	2.2	10.2	18.2
	Mr()	0.0	0.0	0.0	0.0
	Fh	0.0	19.2	19.2	19.2
	Fhs	0.0	14.0	14.0	14.0
	Mg	0.0	-19.2	-19.2	-19.2
	Mgs	0.0	-14.0	-14.0	-14.0
	Mr	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0
	Fi h	0.0	0.0	0.0	0.0
	Fi v	0.0	0.0	0.0	0.0
	Mg i	0.0	0.0	0.0	0.0
Mr i	0.0	0.0	0.0	0.0	
N, M, V acc.	Fv	0.0	0.0	0.0	0.0
	Mg()	0.0	0.0	0.0	0.0
	Mr()	0.0	0.0	0.0	0.0
	Fh	0.0	0.0	0.0	0.0
	Fhs	0.0	0.0	0.0	0.0
	Mg	0.0	0.0	0.0	0.0
	Mgs	0.0	0.0	0.0	0.0
	Mr	0.0	0.0	0.0	0.0
	Mrs	0.0	0.0	0.0	0.0
	Fi h	0.0	0.0	0.0	0.0
	Fi v	0.0	0.0	0.0	0.0
	Mg i	0.0	0.0	0.0	0.0
	Mr i	0.0	0.0	0.0	0.0

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## Sezioni della fondazione

		sbalzo sinistro		incastro sinistro	
		M [KNm]	T [KN]	M [KNm]	T [KN]
Comb. 2	SISMA	0.69	6.91	-51.38	26.62
Comb. 3	STR	1.27	12.68	-32.83	35.15
Comb. 4	STR	1.33	13.28	-33.97	29.21
Comb. 5	TA-RARA	0.94	9.40	-24.32	26.04
Comb. 6	TA-FREQ	0.85	8.47	-19.98	25.28
Comb. 7	TA-Q.P.	0.64	6.44	-10.45	23.62

		mezzeria	
		M [KNm]	T [KN]
Comb. 2	SISMA	-14.80	8.37
Comb. 3	STR	2.32	0.00
Comb. 4	STR	-4.76	0.00
Comb. 5	TA-RARA	1.72	0.00
Comb. 6	TA-FREQ	5.30	0.00
Comb. 7	TA-Q.P.	13.17	0.00

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		incastro destro		sbalzo destro	
		M [KNm]	T [KN]	M [KNm]	T [KN]
Comb. 2	SISMA	-24.26	-19.42	0.45	4.48
Comb. 3	STR	-120.07	-70.77	1.27	12.68
Comb. 4	STR	-40.64	-36.61	1.33	13.28
Comb. 5	TA-RARA	-24.32	-26.04	0.94	9.40
Comb. 6	TA-FREQ	-19.98	-25.28	0.85	8.47
Comb. 7	TA-Q.P.	-10.45	-23.62	0.64	6.44

## 10.8 Verifiche di resistenza e fessurazione

### 10.8.1 Base elevazione

#### Disposizione armature

$M_x$ --- $V_y$
-----------------

Armatura longitudinale interna (per sollecitazione  $M_x$  positiva)

d1	=	12	mm	Diametro ferri prima fila
c1	=	6.00	cm	Copriferro ferri prima fila
i1	=	20.00	cm	Interasse ferri prima fila
As1	=	5.65	cmq	Area acciaio ferri prima fila
d2	=	0	mm	Diametro ferri seconda fila
c2	=	0.00	cm	Copriferro ferri seconda fila
i2	=	0.00	cm	Interasse ferri seconda fila
As2	=	0.00	cmq	Area acciaio ferri seconda fila
d3	=	0	mm	Diametro ferri terza fila
c3	=	0.00	cm	Copriferro ferri terza fila
i3	=	0.00	cm	Interasse ferri terza fila
As3	=	0.00	cmq	Area acciaio ferri terza fila
As	=	5.65	cmq	Area acciaio in zona tesa

Armatura longitudinale esterna (per sollecitazione  $M_x$  positiva)

d1	=	14	mm	Diametro ferri prima fila
c1	=	6.00	cm	Copriferro ferri prima fila
i1	=	20.00	cm	Interasse ferri prima fila
As'1	=	7.70	cmq	Area acciaio ferri prima fila
d2	=	0	mm	Diametro ferri seconda fila
c2	=	0.00	cm	Copriferro ferri seconda fila
i2	=	0.00	cm	Interasse ferri seconda fila
As'2	=	0.00	cmq	Area acciaio ferri seconda fila
d3	=	0	mm	Diametro ferri terza fila
c3	=	0.00	cm	Copriferro ferri terza fila
i3	=	0.00	cm	Interasse ferri terza fila
As'3	=	0.00	cmq	Area acciaio ferri terza fila
As'	=	7.70	cmq	Area acciaio in zona compressa

APPROVATO SDP

Combinazione STR

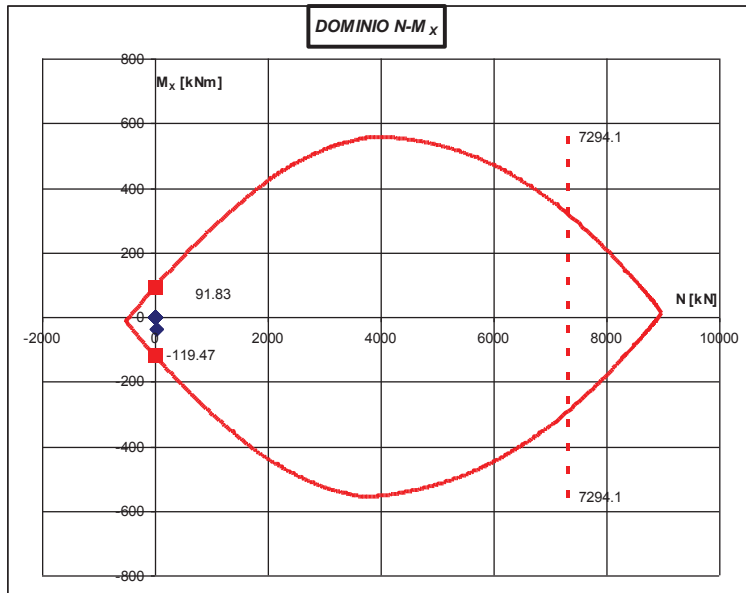
Combinazioni di carico e verifica a pressoflessione retta

N+MX

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n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	SF MIN
1	comb 8	22.50	-34.59	41.51	3.58
2	comb 9	30.38	-34.59	41.51	3.63


**Verifica a taglio della sezione maggiormente sollecitata:**

Effetto positivo della compressione sul taglio: NO

Effetto positivo dei meccanismi pettine, bietta, ingranaggio... del cls: NO

Tipo di verifica a taglio: Elemento NON armato a taglio.

**Verifica a taglio ( V<sub>Y</sub> )**

$$V_{sd Y} = 42 \text{ kN}$$

$$V_{Rd Y} = 177 \text{ kN}$$

$$SF = 4.26$$

**Combinazione RAR**
**Verifica tensioni in esercizio**

$$N = 22.50 \text{ KN}$$

$$M = 25.62 \text{ KNm}$$

$$e = 113.88 \text{ cm}$$

$$y_n = 9.33 \text{ cm} \text{ posizione asse neutro da lembo superiore}$$

$$y_g \text{ sup} = 8.24 \text{ cm} \text{ posizione del baricentro della sezione parzializzata}$$

$$S^* y_g = 3530.58 \text{ cmc} \text{ momento statico rispetto all'asse neutro della sezione parzializzata}$$

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$J_i =$	=	123201.11	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
$\sigma_{c \max}$	=	1.70	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
$\sigma_{s \max}$	=	79.03	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
$\sigma_{s \min}$	=		MPa	
$\sigma_{s' \min}$	=	-7.4	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
$\sigma_{s' \max}$	=		MPa	

### Combinazione SISMICA

#### Verifica tensioni in esercizio

N	=	22.50	KN	
M	=	38.91	KNm	
e	=	172.96	cm	
$y_n$	=	8.91	cm	posizione asse neutro da lembo superiore
$y_{g \sup}$	=	8.20	cm	posizione del baricentro della sezione parzializzata
$S^* y_g =$	=	3500.14	cmc	momento statico rispetto all'asse neutro della sezione parzializzata
$J_i =$	=	123198.26	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
$\sigma_{c \max}$	=	2.58	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
$\sigma_{s \max}$	=	127.71	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
$\sigma_{s \min}$	=		MPa	
$\sigma_{s' \min}$	=	-10.1	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
$\sigma_{s' \max}$	=		MPa	

### Combinazione FRE

#### Verifica a fessurazione

N	=	22.50	KN	azione assiale
M	=	21.78	KNm	azione flettente
N/M	=	1.03	1/m	rapporto fra azione assiale e flettente
$N_f$	=	125.75	KN	azione assiale per formazione fessure
$M_f$	=	121.72	KNm	azione flettente per formazione fessure
$\sigma_{sf}$	=	363.1	MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
$y_n f$	=	9.55	cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

### Combinazione QPE

#### Verifica tensioni in esercizio

N	=	22.50	KN
M	=	13.32	KNm

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e	=	59.22 cm
yn	=	9.30 cm posizione asse neutro da lembo superiore
yg sup	=	7.39 cm posizione del baricentro della sezione parzializzata
S* yg =	=	2812.72 momento statico rispetto all'asse neutro della sezione cmc parzializzata
Ji =	=	95076.29 cm <sup>4</sup> momento di inerzia della sezione parzializzata
sigma c max	=	0.97 Verifica della tensione di esercizio nella fibra di calcestruzzo MPa soddisfatta
sigma s max	=	45.45 MPa Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=	MPa
sigma s' min	=	-4.1 MPa Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=	MPa

### Verifica a fessurazione

N	=	22.50 KN azione assiale
M	=	13.32 KNm azione flettente
N/M	=	1.69 1/m rapporto fra azione assiale e flettente
Nf	=	215.22 KN azione assiale per formazione fessure
Mf	=	127.45 KNm azione flettente per formazione fessure
sigma sf	=	tensione nell'acciaio teso con sollecitazioni pari a quelle di 434.7 MPa formazione delle fessure
yn f	=	posizione asse neutro con sollecitazioni pari a quelle di 9.30 cm formazione delle fessure

Il momento di formazione delle fessure è maggiore del momento sollecitante non è quindi necessario il calcolo dell'apertura delle fessure

## 10.8.2 Fondazione incastro

### Disposizione armature

Armatura longitudinale inferiore (per sollecitazione  $M_X$  positiva)

1	d =	16 mm	Diametro ferri prima fila
	c1 =	6.00 cm	Copriferro ferri prima fila
	i1 =	20.00 cm	Interasse ferri prima fila
s1	A =	10.05 cmq	Area acciaio ferri prima fila
2	d =	0 mm	Diametro ferri seconda fila
	c2 =	0.00 cm	Copriferro ferri seconda fila
	i2 =	0.00 cm	Interasse ferri seconda fila
s2	A =	0.00 cmq	Area acciaio ferri seconda fila
3	d =	0 mm	Diametro ferri terza fila
	c3 =	0.00 cm	Copriferro ferri terza fila
	i3 =	0.00 cm	Interasse ferri terza fila

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$A_{s3} = 0.00 \text{ cmq}$  Area acciaio ferri terza fila

$A_s = 10.05 \text{ cmq}$  Area acciaio in zona tesa

Armatura longitudinale superiore (per sollecitazione  $M_x$  positiva)

$d_1 = 12 \text{ mm}$  Diametro ferri prima fila

$c1 = 6.00 \text{ cm}$  Copriferro ferri prima fila

$i1 = 20.00 \text{ cm}$  Interasse ferri prima fila

$A_{s'1} = 5.65 \text{ cmq}$  Area acciaio ferri prima fila

$d_2 = 0 \text{ mm}$  Diametro ferri seconda fila

$c2 = 0.00 \text{ cm}$  Copriferro ferri seconda fila

$i2 = 0.00 \text{ cm}$  Interasse ferri seconda fila

$A_{s'2} = 0.00 \text{ cmq}$  Area acciaio ferri seconda fila

$d_3 = 0 \text{ mm}$  Diametro ferri terza fila

$c3 = 0.00 \text{ cm}$  Copriferro ferri terza fila

$i3 = 0.00 \text{ cm}$  Interasse ferri terza fila

$A_{s'3} = 0.00 \text{ cmq}$  Area acciaio ferri terza fila

$A_{s'} = 5.65 \text{ cmq}$  Area acciaio in zona compressa

APPROVATO SDP

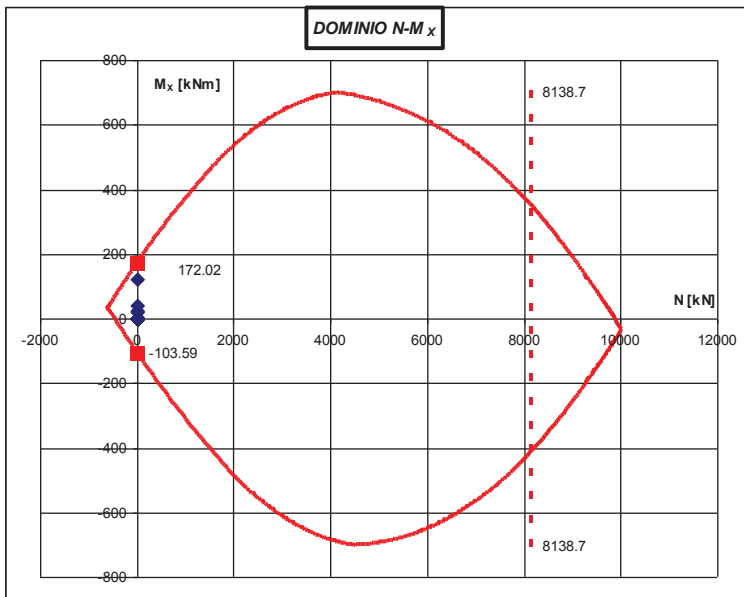
Combinazione STR

**Combinazioni di carico e verifica a pressoflessione retta**

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX
					SF MIN
1	comb 3 sx	0.00	120.07	-70.77	<b>1.43</b>
2	comb 4 sx	0.00	40.64	-36.61	<b>4.23</b>
3	comb 3 dx	0.00	24.32	35.15	<b>7.07</b>
4	comb 4 dx	0.00	19.98	29.21	<b>8.61</b>

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**Verifica a taglio della sezione maggiormente sollecitata:**

Effetto positivo della compressione sul taglio: NO

Effetto positivo dei meccanismi pettine, bietta, ingranaggio... del cls: NO

Tipo di verifica a taglio: Elemento NON armato a taglio.

**Verifica a taglio ( V<sub>Y</sub> )**

V<sub>sdY</sub> = 71 kN  
V<sub>RdY</sub> = 192 kN

SF = 2.72

Combinazione RAR

**Verifica tensioni in esercizio**

N = 0.00 KN  
M = 24.32 KNm  
e = 0.00 cm  
y<sub>n</sub> = 9.77 cm posizione asse neutro da lembo superiore  
y<sub>g sup</sub> = 9.77 cm posizione del baricentro della sezione parzializzata  
S\* y<sub>g</sub> = 5041.18 cmc momento statico rispetto all'asse neutro della sezione parzializzata  
J<sub>i</sub> = 200463.02 cm<sup>4</sup> momento di inerzia della sezione parzializzata  
sigma c max = 1.19 MPa Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta  
sigma s max = 60.83 MPa Verifica della tensione di esercizio nell'acciaio soddisfatta  
sigma s min = MPa  
sigma s' min = -5.8 MPa Verifica della tensione di esercizio nell'acciaio soddisfatta

APPROVATO SDP

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$\sigma s' \max =$  MPa

### Combinazione SISMICA

#### Verifica tensioni in esercizio

$N = 0.00$  KN  
 $M = 51.38$  KNm  
 $e = 0.00$  cm  
 $y_n = 9.77$  cm posizione asse neutro da lembo superiore  
 $y_g \text{ sup} = 9.77$  cm posizione del baricentro della sezione parzializzata  
 $S^* y_g = 5041.18$  cmc momento statico rispetto all'asse neutro della sezione parzializzata  
 $J_i = 200463.02$  cm<sup>4</sup> momento di inerzia della sezione parzializzata  
 $\sigma c \max = 2.50$  MPa Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta  
 $\sigma s \max = 128.52$  MPa Verifica della tensione di esercizio nell'acciaio soddisfatta  
 $\sigma s \min =$  MPa  
 $\sigma s' \min = -12.2$  MPa Verifica della tensione di esercizio nell'acciaio soddisfatta  
 $\sigma s' \max =$  MPa

### Combinazione FRE

#### Verifica a fessurazione

$N = 0.00$  KN azione assiale  
 $M = 19.98$  KNm azione flettente  
 $N/M = 0.00$  1/m rapporto fra azione assiale e flettente  
 $N_f = 0.00$  KN azione assiale per formazione fessure  
 $M_f = 140.16$  KNm azione flettente per formazione fessure  
 $\sigma s_f = 350.6$  MPa tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure  
 $y_n f = 9.77$  cm posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

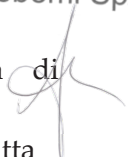
### Combinazione QPE

#### Verifica tensioni in esercizio

$N = 0.00$  KN  
 $M = 10.45$  KNm  
 $e = 0.00$  cm  
 $y_n = 9.77$  cm posizione asse neutro da lembo superiore  
 $y_g \text{ sup} = 9.77$  cm posizione del baricentro della sezione parzializzata  
 $S^* y_g = 5041.18$  cmc momento statico rispetto all'asse neutro della sezione parzializzata  
 $J_i = 200463.02$  cm<sup>4</sup> momento di inerzia della sezione parzializzata  
 $\sigma c \max = 0.51$  MPa Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta  
 $\sigma s \max = 26.14$  MPa Verifica della tensione di esercizio nell'acciaio soddisfatta

APPROVATO SDP

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$\sigma_{s \min}$  = MPa  
 $\sigma_{s' \min}$  = -2.5 MPa Verifica della tensione di esercizio nell'acciaio soddisfatta  
 $\sigma_{s' \max}$  = MPa

#### Verifica a fessurazione

$N$  = 0.00 KN azione assiale  
 $M$  = 10.45 KNm azione flettente  
 $N/M$  = 0.00 1/m rapporto fra azione assiale e flettente  
 $N_f$  = 0.00 KN azione assiale per formazione fessure  
 $M_f$  = 140.16 KNm azione flettente per formazione fessure  
 $\sigma_{sf}$  = 350.6 MPa tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure  
 $y_{nf}$  = 9.77 cm posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

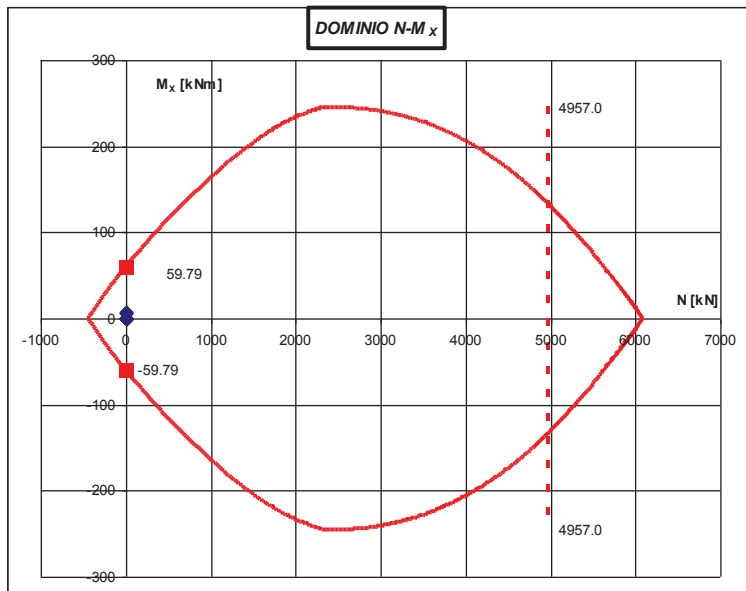
Il momento di formazione delle fessure è maggiore del momento sollecitante non è quindi necessario il calcolo dell'apertura delle fessure

### 10.8.3 Fondazione mezzeria

Combinazione STR

#### Combinazioni di carico e verifica a pressoflessione retta

n°	COMBINAZIONE	N [kN]	MX [kNm]	VY [kN]	N+MX SF MIN
1	comb 3	0.00	-2.32	0.00	<b>44.59</b>
2	comb 4	0.00	4.76	0.00	<b>36.10</b>



APPROVATO SDP

Combinazione RAR

#### Verifica tensioni in esercizio

$N$  = 0.00 KN  
 $M$  = 1.72 KNm  
 $e$  = 0.00 cm  
 $y_n$  = 9.77 cm posizione asse neutro da lembo superiore

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yg sup	=	9.77	cm	posizione del baricentro della sezione parzializzata
S* yg =	=	5041.18	cmc	momento statico rispetto all'asse neutro della sezione parzializzata
Ji =	=	200463.02	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	0.08	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	4.30	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=		MPa	
sigma s' min	=	-0.4	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=		MPa	

#### Combinazione SISMICA

##### Verifica tensioni in esercizio

N	=	0.00	KN	
M	=	14.80	KNm	
e	=	0.00	cm	
yn	=	9.77	cm	posizione asse neutro da lembo superiore
yg sup	=	9.77	cm	posizione del baricentro della sezione parzializzata
S* yg =	=	5041.18	cmc	momento statico rispetto all'asse neutro della sezione parzializzata
Ji =	=	200463.02	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	0.72	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	37.02	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=		MPa	
sigma s' min	=	-3.5	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=		MPa	

APPROVATO SDP

#### Combinazione FRE

##### Verifica a fessurazione

N	=	0.00	KN	azione assiale
M	=	5.30	KNm	azione flettente
N/M	=	0.00	1/m	rapporto fra azione assiale e flettente
Nf	=	0.00	KN	azione assiale per formazione fessure
Mf	=	140.16	KNm	azione flettente per formazione fessure
sigma sf	=	350.6	MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
yn f	=	9.77	cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

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#### Combinazione QPE

##### Verifica tensioni in esercizio



N	=	0.00	KN	
M	=	13.17	KNm	
e	=	0.00	cm	
yn	=	9.77	cm	posizione asse neutro da lembo superiore
yg sup	=	9.77	cm	posizione del baricentro della sezione parzializzata
S* yg =	=	5041.18	cmc	momento statico rispetto all'asse neutro della sezione parzializzata
Ji =	=	200463.02	cm <sup>4</sup>	momento di inerzia della sezione parzializzata
sigma c max	=	0.64	MPa	Verifica della tensione di esercizio nella fibra di calcestruzzo soddisfatta
sigma s max	=	32.96	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s min	=		MPa	
sigma s' min	=	-3.1	MPa	Verifica della tensione di esercizio nell'acciaio soddisfatta
sigma s' max	=		MPa	

#### Verifica a fessurazione

N	=	0.00	KN	azione assiale
M	=	13.17	KNm	azione flettente
N/M	=	0.00	1/m	rapporto fra azione assiale e flettente
Nf	=	0.00	KN	azione assiale per formazione fessure
Mf	=	140.16	KNm	azione flettente per formazione fessure
sigma sf	=	350.6	MPa	tensione nell'acciaio teso con sollecitazioni pari a quelle di formazione delle fessure
yn f	=	9.77	cm	posizione asse neutro con sollecitazioni pari a quelle di formazione delle fessure

Il momento di formazione delle fessure è maggiore del momento sollecitante non è quindi necessario il calcolo dell'apertura delle fessure

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## 10.9 Armatura di ripartizione dello scatolare

Così come previsto dal D.M. 14 gennaio 2008, si prevede un'armatura longitudinale in misura non inferiore al 20%. L'armatura per l'opera in oggetto risulta essere:


soletta inferiore:  $\phi 12/20\text{cm}$   
soletta piedritti:  $\phi 12/20\text{cm}$

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## 11 ALLEGATI

### 11.1 Tabulati di input

File D:\LAVORI\_epsilon\BDY01E\_lavoro\_epsilon\relazioni\COMPLETE\allegati\tombino 4x2\_R=135\_input.s2k was saved on 2/24/10 at 9.14.35

TABLE: "PROGRAM CONTROL"

ProgramName=SAP2000 Version=14.0.0 ProgLevel=Advanced LicenseOS=Yes LicenseSC=Yes LicenseBR=Yes LicenseHT=Yes CurrUnits="KN, m, C"

TABLE: "ACTIVE DEGREES OF FREEDOM"

UX=Yes UY=Yes UZ=Yes RX=Yes RY=Yes RZ=Yes

TABLE: "ANALYSIS OPTIONS"

Solver=Advanced Force32Bit=No StiffCase=None GeomMod=No

TABLE: "COORDINATE SYSTEMS"

Name=GLOBAL Type=Cartesian X=0 Y=0 Z=0 AboutZ=0 AboutY=0 AboutX=0

TABLE: "GRID LINES"

CoordSys=GLOBAL AxisDir=X GridID=a XXYZCoord=0 LineType=Primary LineColor=Gray8Dark Visible=Yes BubbleLoc=Start AllVisible=Yes BubbleSize=2.4384

CoordSys=GLOBAL AxisDir=X GridID=b XXYZCoord=0.0625 LineType=Primary LineColor=Gray8Dark Visible=Yes BubbleLoc=Start

CoordSys=GLOBAL AxisDir=Y XXYZCoord=0 LineType=Primary LineColor=Gray8Dark Visible=Yes BubbleLoc=End

CoordSys=GLOBAL AxisDir=Z GridID=a XXYZCoord=0 LineType=Primary LineColor=Gray8Dark Visible=Yes BubbleLoc=Start

CoordSys=GLOBAL AxisDir=Z GridID=b XXYZCoord=0.0625 LineType=Primary LineColor=Gray8Dark Visible=Yes BubbleLoc=Start

TABLE: "MATERIAL PROPERTIES 01 - GENERAL"

Material=A615Gr60 Type=Rebar SymType=Uniaxial TempDepend=No Color=White Notes="ASTM A615 Grade 60 added 10/12/2009 9.44.29"

Material=A992Fy50 Type=Steel SymType=Isotropic TempDepend=No Color=Blue Notes="ASTM A992 Fy=50 ksi added 09/12/2009 16.15.36"

Material=C28/35 Type=Concrete SymType=Isotropic TempDepend=No Color=Blue Notes="Normalweight f'c = 4 ksi added 10/12/2009 9.34.902"

Material=C32/40 Type=Concrete SymType=Isotropic TempDepend=No Color=Blue Notes="Normalweight f'c = 4 ksi added 10/12/2009 9.34.902"

Material=C32/40\_1/3 Type=Concrete SymType=Isotropic TempDepend=No Color=Blue Notes="Normalweight f'c = 4 ksi added 10/12/2009 9.34.902"

TABLE: "MATERIAL PROPERTIES 02 - BASIC MECHANICAL PROPERTIES"

Material=A615Gr60 UnitWeight=76.9728639422648 UnitMass=7.84904737995992 E1=199947978.795958 A1=0.0000117

Material=A992Fy50 UnitWeight=76.9728639422648 UnitMass=7.84904737995992 E1=199947978.795958 G12=76903068.7676762 U12=0.3 A1=0.0000117

Material=C28/35 UnitWeight=25 UnitMass=2.54929048055605 E1=32588578 G12=13578574.1666667 U12=0.2 A1=0.0000099

Material=C32/40 UnitWeight=25 UnitMass=2.54929048055605 E1=33643000 G12=14017916.6666667 U12=0.2 A1=0.0000099

Material=C32/40\_1/3 UnitWeight=25 UnitMass=2.54929048055605 E1=11214333 G12=4672638.75 U12=0.2 A1=0.0000099

TABLE: "MATERIAL PROPERTIES 03A - STEEL DATA"

Material=A992Fy50 Fy=344737.894475789 Fu=448159.262818526 EffFy=379211.683923368 EffFu=492975.189100378 SSCurveOpt=Simple SSHysType=Kinematic SHard=0.015 SMax=0.11 SRup=0.17

TABLE: "MATERIAL PROPERTIES 03B - CONCRETE DATA"

Material=C28/35 Fc=27579.0315580631 LtWtConc=No SSCurveOpt=Simple SSHysType=Kinematic SFc=0.002 SCap=0.005 FAngle=0 DAngle=0

Material=C32/40 Fc=27579.0315580631 LtWtConc=No SSCurveOpt=Simple SSHysType=Kinematic SFc=0.002 SCap=0.005 FAngle=0 DAngle=0

Material=C32/40\_1/3 Fc=27579.0315580631 LtWtConc=No SSCurveOpt=Simple SSHysType=Kinematic SFc=0.002 SCap=0.005 FAngle=0 DAngle=0

TABLE: "MATERIAL PROPERTIES 03E - REBAR DATA"

Material=A615Gr60 Fy=413685.473370947 Fu=620528.21005642 EffFy=455054.020708041 EffFu=682581.031062062 SSCurveOpt=Simple SSHysType=Kinematic SHard=0.01 SCap=0.09 UseCTDef=No

TABLE: "MATERIAL PROPERTIES 06 - DAMPING PARAMETERS"

Material=A615Gr60 ModalRatio=0 VisMass=0 VisStiff=0 HysMass=0 HysStiff=0

Material=A992Fy50 ModalRatio=0 VisMass=0 VisStiff=0 HysMass=0 HysStiff=0

Material=C28/35 ModalRatio=0 VisMass=0 VisStiff=0 HysMass=0 HysStiff=0

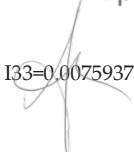
Material=C32/40 ModalRatio=0 VisMass=0 VisStiff=0 HysMass=0 HysStiff=0


Material=C32/40\_1/3 ModalRatio=0 VisMass=0 VisStiff=0 HysMass=0 HysStiff=0

TABLE: "FRAME SECTION PROPERTIES 01 - GENERAL"

SectionName=PIDRITTI Material=C32/40 Shape=Rectangular t3=0.45 t2=1 Area=0.45 TorsConst=2.17931139694336E-02 I33=0.00759375 I22=0.0375 AS2=0.375 AS3=0.375 S33=0.03375 S22=0.075 Z33=0.050625 Z22=0.1125 \_

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R33=0.129903810567666 R22=0.288675134594813 ConcCol=Yes ConcBeam=No Color=Green TotalWt=56.25 TotalMass=5.73590358125111  
 FromFile=No AMod=1 A2Mod=1 A3Mod=1 JMod=1 I2Mod=1 I3Mod=1 MMod=1 WMod=1 Notes="Added 10/12/2009 9.45.13"  
 SectionName=SOLETTA-INF Material=C28/35 Shape=Rectangular t3=0.5 t2=1 Area=0.5 TorsConst=2.86100260416667E-02 I33=1.04166666666667E-02  
 I22=4.16666666666667E-02 AS2=0.416666666666667 AS3=0.416666666666667 \_  
 S33=4.16666666666667E-02 S22=8.33333333333333E-02 Z33=0.0625 Z22=0.125 R33=0.144337567297406 R22=0.288675134594813 ConcCol=Yes  
 ConcBeam=No Color=Gray8Dark TotalWt=66.25 TotalMass=6.75561977347353 FromFile=No \_  
 AMod=1 A2Mod=1 A3Mod=1 JMod=1 I2Mod=1 I3Mod=1 MMod=1 WMod=1 Notes="Added 10/12/2009 9.44.29"  
 SectionName=SOLETTA-SUP Material=C32/40 Shape=Rectangular t3=0.5 t2=1 Area=0.5 TorsConst=2.86100260416667E-02 I33=1.04166666666667E-02  
 I22=4.16666666666667E-02 AS2=0.416666666666667 AS3=0.416666666666667 \_  
 S33=4.16666666666667E-02 S22=8.33333333333333E-02 Z33=0.0625 Z22=0.125 R33=0.144337567297406 R22=0.288675134594813 ConcCol=Yes  
 ConcBeam=No Color=White TotalWt=55.625 TotalMass=5.67217131923721 FromFile=No \_  
 AMod=1 A2Mod=1 A3Mod=1 JMod=1 I2Mod=1 I3Mod=1 MMod=1 WMod=1 Notes="Added 08/01/2010 15.01.46"

TABLE: "FRAME SECTION PROPERTIES 02 - CONCRETE COLUMN"

SectionName=PIDRITTI RebarMatL=A615Gr60 RebarMatC=A615Gr60 ReinfConfig=Rectangular LatReinf=Ties Cover=0.04 NumBars3Dir=3  
 NumBars2Dir=3 BarSizeL=#9 BarSizeC=#4 SpacingC=0.15 NumCBars2=3 NumCBars3=3 ReinfType=Design  
 SectionName=SOLETTA-INF RebarMatL=A615Gr60 RebarMatC=A615Gr60 ReinfConfig=Rectangular LatReinf=Ties Cover=0.04 NumBars3Dir=3  
 NumBars2Dir=3 BarSizeL=#9 BarSizeC=#4 SpacingC=0.15 NumCBars2=3 NumCBars3=3 ReinfType=Design  
 SectionName=SOLETTA-SUP RebarMatL=A615Gr60 RebarMatC=A615Gr60 ReinfConfig=Rectangular LatReinf=Ties Cover=0.04 NumBars3Dir=3  
 NumBars2Dir=3 BarSizeL=#9 BarSizeC=#4 SpacingC=0.15 NumCBars2=3 NumCBars3=3 ReinfType=Design

TABLE: "REBAR SIZES"

RebarID=#2 Area=0.000032258 Diameter=0.00635  
 RebarID=#3 Area=7.09675996154547E-05 Diameter=0.009525  
 RebarID=#4 Area=1.29032001922727E-04 Diameter=0.0127  
 RebarID=#5 Area=1.99999601538181E-04 Diameter=0.015875  
 RebarID=#6 Area=2.83870398461819E-04 Diameter=0.01905  
 RebarID=#7 Area=3.87096015381813E-04 Diameter=0.022225  
 RebarID=#8 Area=5.09676413843632E-04 Diameter=0.0254  
 RebarID=#9 Area=0.00064516 Diameter=2.86512005329132E-02  
 RebarID=#10 Area=8.1935318769455E-04 Diameter=3.22579995155334E-02  
 RebarID=#11 Area=1.00644956308365E-03 Diameter=3.58139991521835E-02  
 RebarID=#14 Area=0.00145161 Diameter=4.30021989583969E-02  
 RebarID=#18 Area=0.00258064 Diameter=5.73277992248535E-02  
 RebarID=10M Area=1.0000004162606E-04 Diameter=1.13000003604438E-02  
 RebarID=15M Area=2.00000008325212E-04 Diameter=1.60000002402959E-02  
 RebarID=20M Area=3.00000012487818E-04 Diameter=1.95000002928606E-02  
 RebarID=25M Area=5.00000020813031E-04 Diameter=2.52000011414055E-02  
 RebarID=30M Area=7.00000029138243E-04 Diameter=2.99000000675832E-02  
 RebarID=35M Area=1.00000004162606E-03 Diameter=3.57000012990997E-02  
 RebarID=45M Area=1.50000006243909E-03 Diameter=4.37000014192476E-02  
 RebarID=55M Area=2.50000010406515E-03 Diameter=0.056400002372922  
 RebarID=6d Area=2.83000004150781E-05 Diameter=6.00000009011096E-03  
 RebarID=8d Area=5.03000013308514E-05 Diameter=8.00000012014795E-03  
 RebarID=10d Area=7.85000032676458E-05 Diameter=1.00000001501849E-02  
 RebarID=12d Area=1.13000004703745E-04 Diameter=1.20000001802219E-02  
 RebarID=14d Area=1.540000006410413E-04 Diameter=1.40000002102589E-02  
 RebarID=16d Area=2.01000008366838E-04 Diameter=1.60000002402959E-02  
 RebarID=20d Area=3.14000013070583E-04 Diameter=2.00000003003699E-02  
 RebarID=25d Area=4.91000020438396E-04 Diameter=2.50000003754623E-02  
 RebarID=26d Area=5.31000022103439E-04 Diameter=2.60000003904808E-02  
 RebarID=28d Area=6.16000025641654E-04 Diameter=2.80000004205178E-02

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TABLE: "LOAD CASE DEFINITIONS"

LoadCase=PPST DesignType=DEAD SelfWtMult=1  
 LoadCase=PPNS DesignType=DEAD SelfWtMult=0  
 LoadCase=ST1D DesignType=DEAD SelfWtMult=0  
 LoadCase=ST2D DesignType=DEAD SelfWtMult=0  
 LoadCase=ST3D DesignType=DEAD SelfWtMult=0  
 LoadCase=ST4D DesignType=DEAD SelfWtMult=0  
 LoadCase=ST1S DesignType=DEAD SelfWtMult=0  
 LoadCase=ST2S DesignType=DEAD SelfWtMult=0  
 LoadCase=ST3S DesignType=DEAD SelfWtMult=0  
 LoadCase=ST4S DesignType=DEAD SelfWtMult=0  
 LoadCase=QM01 DesignType=LIVE SelfWtMult=0  
 LoadCase=QM02 DesignType=LIVE SelfWtMult=0

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LoadCase=SQMD DesignType=LIVE SelfWtMult=0  
 LoadCase=SQMS DesignType=LIVE SelfWtMult=0  
 LoadCase=FA01 DesignType=LIVE SelfWtMult=0  
 LoadCase=IS01 DesignType=LIVE SelfWtMult=0  
 LoadCase=SSTS DesignType=LIVE SelfWtMult=0  
 LoadCase=TC01 DesignType=LIVE SelfWtMult=0  
 LoadCase=TC02 DesignType=LIVE SelfWtMult=0  
 LoadCase=TV01 DesignType=LIVE SelfWtMult=0  
 LoadCase=TV02 DesignType=LIVE SelfWtMult=0  
 LoadCase=PPAQ DesignType=DEAD SelfWtMult=0

TABLE: "AUTO WAVE 3 - WAVE CHARACTERISTICS - GENERAL"

WaveChar=Default WaveType="From Theory" KinFactor=1 SWaterDepth=45 WaveHeight=18 WavePeriod=12 WaveTheory=Linear

TABLE: "COMBINATION DEFINITIONS"

ComboName=SISSTR ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
 ConcDesign=No AlumDesign=No ColdDesign=No  
 ComboName=SISSTR CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
 ComboName=SISSTR CaseType="Linear Static" CaseName=PPAQ ScaleFactor=1  
 ComboName=SISSTR CaseType="Linear Static" CaseName=ST1SG ScaleFactor=1  
 ComboName=SISSTR CaseType="Linear Static" CaseName=ST2SG ScaleFactor=1  
 ComboName=SISSTR CaseType="Linear Static" CaseName=ST3SG ScaleFactor=0  
 ComboName=SISSTR CaseType="Linear Static" CaseName=ST4SG ScaleFactor=0  
 ComboName=SISSTR CaseType="Linear Static" CaseName=ST1DG ScaleFactor=0  
 ComboName=SISSTR CaseType="Linear Static" CaseName=ST2DG ScaleFactor=0  
 ComboName=SISSTR CaseType="Linear Static" CaseName=ST3DG ScaleFactor=1  
 ComboName=SISSTR CaseType="Linear Static" CaseName=ST4DG ScaleFactor=1  
 ComboName=SISSTR CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
 ComboName=SISSTR CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
 ComboName=SISSTR CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
 ComboName=SISSTR CaseType="Linear Static" CaseName=SQMSG ScaleFactor=0  
 ComboName=SISSTR CaseType="Linear Static" CaseName=SQMDG ScaleFactor=0  
 ComboName=SISSTR CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
 ComboName=SISSTR CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
 ComboName=SISSTR CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
 ComboName=SISSTR CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
 ComboName=SISSTR CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
 ComboName=SISSTR CaseType="Linear Static" CaseName=SSTS ScaleFactor=1  
 ComboName=SISSTR CaseType="Linear Static" CaseName=IS01 ScaleFactor=1  
 ComboName=FRE01 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
 ConcDesign=No AlumDesign=No ColdDesign=No  
 ComboName=FRE01 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
 ComboName=FRE01 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1  
 ComboName=FRE01 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1  
 ComboName=FRE01 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=ST4S ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=ST1D ScaleFactor=1  
 ComboName=FRE01 CaseType="Linear Static" CaseName=ST2D ScaleFactor=1  
 ComboName=FRE01 CaseType="Linear Static" CaseName=ST3D ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
 ComboName=FRE01 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
 ComboName=FRE02 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
 ConcDesign=No AlumDesign=No ColdDesign=No  
 ComboName=FRE02 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1

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ComboName=FRE02 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
ComboName=FRE02 CaseType="Linear Static" CaseName=ST1S ScaleFactor=0  
ComboName=FRE02 CaseType="Linear Static" CaseName=ST2S ScaleFactor=0  
ComboName=FRE02 CaseType="Linear Static" CaseName=ST3S ScaleFactor=1  
ComboName=FRE02 CaseType="Linear Static" CaseName=ST4S ScaleFactor=1  
ComboName=FRE02 CaseType="Linear Static" CaseName=ST1D ScaleFactor=0  
ComboName=FRE02 CaseType="Linear Static" CaseName=ST2D ScaleFactor=0  
ComboName=FRE02 CaseType="Linear Static" CaseName=ST3D ScaleFactor=1  
ComboName=FRE02 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
ComboName=FRE02 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=FRE02 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0.75  
ComboName=FRE02 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0.75  
ComboName=FRE02 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0  
ComboName=FRE02 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0  
ComboName=FRE02 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
ComboName=FRE02 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
ComboName=FRE02 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
ComboName=FRE02 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=FRE02 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=FRE02 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=FRE02 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=FRE03 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
ComboName=FRE03 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
ComboName=FRE03 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
ComboName=FRE03 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1  
ComboName=FRE03 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1  
ComboName=FRE03 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
ComboName=FRE03 CaseType="Linear Static" CaseName=ST4S ScaleFactor=0  
ComboName=FRE03 CaseType="Linear Static" CaseName=ST1D ScaleFactor=0  
ComboName=FRE03 CaseType="Linear Static" CaseName=ST2D ScaleFactor=0  
ComboName=FRE03 CaseType="Linear Static" CaseName=ST3D ScaleFactor=1  
ComboName=FRE03 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
ComboName=FRE03 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=FRE03 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0.75  
ComboName=FRE03 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0.75  
ComboName=FRE03 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0.75  
ComboName=FRE03 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0  
ComboName=FRE03 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
ComboName=FRE03 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
ComboName=FRE03 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
ComboName=FRE03 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=FRE03 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=FRE03 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=FRE03 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=FRE04 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
ComboName=FRE04 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
ComboName=FRE04 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
ComboName=FRE04 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1  
ComboName=FRE04 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1  
ComboName=FRE04 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
ComboName=FRE04 CaseType="Linear Static" CaseName=ST4S ScaleFactor=0  
ComboName=FRE04 CaseType="Linear Static" CaseName=ST1D ScaleFactor=1  
ComboName=FRE04 CaseType="Linear Static" CaseName=ST2D ScaleFactor=1  
ComboName=FRE04 CaseType="Linear Static" CaseName=ST3D ScaleFactor=0  
ComboName=FRE04 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
ComboName=FRE04 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=FRE04 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0.75  
ComboName=FRE04 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0.75  
ComboName=FRE04 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0.75  
ComboName=FRE04 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0.75  
ComboName=FRE04 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
ComboName=FRE04 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
ComboName=FRE04 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
ComboName=FRE04 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0

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ComboName=FRE04 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=FRE04 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=FRE04 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=FRE05 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=FRE05 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
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ComboName=FRE05 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
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ComboName=FRE05 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
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ComboName=FRE05 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
ComboName=FRE05 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
ComboName=FRE05 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0.75  
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ComboName=FRE05 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
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ComboName=FRE05 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=FRE05 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
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ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=FRE06 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1  
ComboName=FRE06 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
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ComboName=FRE06 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
ComboName=FRE06 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
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ComboName=FRE06 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
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ComboName=FRE06 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
ComboName=FRE06 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
ComboName=FRE06 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
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ComboName=FRE06 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=FRE07 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=FRE07 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
ComboName=FRE07 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=FRE07 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
ComboName=FRE07 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0

APPROVATO SDP

Società di Progetto  
Brebemi SpA



ComboName=FRE07 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0  
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 ComboName=FRE07 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
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 ComboName=FRE07 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
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 ConcDesign=No AlumDesign=No ColdDesign=No  
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 ComboName=FRE09 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1  
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 ComboName=FRE09 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
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 ComboName=FRE09 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
 ComboName=FRE09 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0.5  
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 ComboName=FRE09 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
 ComboName=FRE09 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
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 ComboName=FRE09 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
 ComboName=FRE10 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
 ConcDesign=No AlumDesign=No ColdDesign=No  
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 ComboName=FRE10 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
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 ComboName=FRE10 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1  
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 ComboName=FRE10 CaseType="Linear Static" CaseName=ST1D ScaleFactor=1


APPROVATO SDP

Società di Progetto  
Brebemi SpA

ComboName=FRE10 CaseType="Linear Static" CaseName=ST2D ScaleFactor=1  
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ComboName=FRE10 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
ComboName=FRE10 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=FRE10 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0.75  
ComboName=FRE10 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0.75  
ComboName=FRE10 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0.75  
ComboName=FRE10 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0.75  
ComboName=FRE10 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
ComboName=FRE10 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0.5  
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ComboName=FRE10 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
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ComboName=FRE10 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=FRE11 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=FRE11 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
ComboName=FRE11 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1  
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ComboName=FRE11 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
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ComboName=FRE11 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
ComboName=FRE11 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=FRE11 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
ComboName=FRE11 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
ComboName=FRE11 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0.75  
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ComboName=FRE11 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
ComboName=FRE11 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0.5  
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ComboName=FRE11 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
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ComboName=FRE11 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
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ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=FRE12 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
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ComboName=FRE12 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=FRE13 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
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APPROVATO SGP

Società di Progetto  
Brebemi SpA



ComboName=FRE13 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
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ComboName=FRE13 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
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ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=FRE14 CaseType="Linear Static" CaseName=ST3D ScaleFactor=1  
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ComboName=FRE14 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0  
ComboName=FRE14 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0  
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ComboName=FRE14 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
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ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=FRE15 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
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APPROVATO SDP

Società di Progetto  
Brebemi SpA





ComboName=FRE15 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
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ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=FRE17 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0.75  
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ComboName=FRE17 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
ComboName=FRE17 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
ComboName=FRE17 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0.5  
ComboName=FRE17 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=FRE17 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=FRE17 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=FRE17 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=FRE18 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
ComboName=FRE18 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
ComboName=FRE18 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
ComboName=FRE18 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1  
ComboName=FRE18 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1  
ComboName=FRE18 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
ComboName=FRE18 CaseType="Linear Static" CaseName=ST4S ScaleFactor=0  
ComboName=FRE18 CaseType="Linear Static" CaseName=ST1D ScaleFactor=1  
ComboName=FRE18 CaseType="Linear Static" CaseName=ST2D ScaleFactor=1  
ComboName=FRE18 CaseType="Linear Static" CaseName=ST3D ScaleFactor=0  
ComboName=FRE18 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
ComboName=FRE18 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=FRE18 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
ComboName=FRE18 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0

APPROVATO SDP

Società di Progetto  
Brebemi SpA



ComboName=FRE18 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0.75  
ComboName=FRE18 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0.75  
ComboName=FRE18 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
ComboName=FRE18 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
ComboName=FRE18 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0.5  
ComboName=FRE18 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=FRE18 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=FRE18 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=FRE18 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=FRE19 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
ComboName=FRE19 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
ComboName=FRE19 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
ComboName=FRE19 CaseType="Linear Static" CaseName=ST1S ScaleFactor=0  
ComboName=FRE19 CaseType="Linear Static" CaseName=ST2S ScaleFactor=0  
ComboName=FRE19 CaseType="Linear Static" CaseName=ST3S ScaleFactor=1  
ComboName=FRE19 CaseType="Linear Static" CaseName=ST4S ScaleFactor=1  
ComboName=FRE19 CaseType="Linear Static" CaseName=ST1D ScaleFactor=0  
ComboName=FRE19 CaseType="Linear Static" CaseName=ST2D ScaleFactor=0  
ComboName=FRE19 CaseType="Linear Static" CaseName=ST3D ScaleFactor=1  
ComboName=FRE19 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
ComboName=FRE19 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=FRE19 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
ComboName=FRE19 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
ComboName=FRE19 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0  
ComboName=FRE19 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0  
ComboName=FRE19 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
ComboName=FRE19 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
ComboName=FRE19 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
ComboName=FRE19 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0.6  
ComboName=FRE19 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=FRE19 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=FRE19 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=FRE20 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
ComboName=FRE20 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
ComboName=FRE20 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
ComboName=FRE20 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1  
ComboName=FRE20 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1  
ComboName=FRE20 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
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ComboName=FRE20 CaseType="Linear Static" CaseName=ST2D ScaleFactor=0  
ComboName=FRE20 CaseType="Linear Static" CaseName=ST3D ScaleFactor=1  
ComboName=FRE20 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
ComboName=FRE20 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=FRE20 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
ComboName=FRE20 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
ComboName=FRE20 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0.75  
ComboName=FRE20 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0  
ComboName=FRE20 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
ComboName=FRE20 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
ComboName=FRE20 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
ComboName=FRE20 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0.5  
ComboName=FRE20 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=FRE20 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=FRE20 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=FRE21 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
ComboName=FRE21 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
ComboName=FRE21 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
ComboName=FRE21 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1  
ComboName=FRE21 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1  
ComboName=FRE21 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
ComboName=FRE21 CaseType="Linear Static" CaseName=ST4S ScaleFactor=0  
ComboName=FRE21 CaseType="Linear Static" CaseName=ST1D ScaleFactor=1

APPROVATO SDP

Società di Progetto  
Brebemi SpA



ComboName=FRE21 CaseType="Linear Static" CaseName=ST2D ScaleFactor=1  
ComboName=FRE21 CaseType="Linear Static" CaseName=ST3D ScaleFactor=0  
ComboName=FRE21 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
ComboName=FRE21 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=FRE21 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
ComboName=FRE21 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
ComboName=FRE21 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0.75  
ComboName=FRE21 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0.75  
ComboName=FRE21 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
ComboName=FRE21 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
ComboName=FRE21 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
ComboName=FRE21 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0.5  
ComboName=FRE21 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=FRE21 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=FRE21 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=FRE22 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
ComboName=FRE22 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
ComboName=FRE22 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
ComboName=FRE22 CaseType="Linear Static" CaseName=ST1S ScaleFactor=0  
ComboName=FRE22 CaseType="Linear Static" CaseName=ST2S ScaleFactor=0  
ComboName=FRE22 CaseType="Linear Static" CaseName=ST3S ScaleFactor=1  
ComboName=FRE22 CaseType="Linear Static" CaseName=ST4S ScaleFactor=1  
ComboName=FRE22 CaseType="Linear Static" CaseName=ST1D ScaleFactor=0  
ComboName=FRE22 CaseType="Linear Static" CaseName=ST2D ScaleFactor=0  
ComboName=FRE22 CaseType="Linear Static" CaseName=ST3D ScaleFactor=1  
ComboName=FRE22 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
ComboName=FRE22 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=FRE22 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
ComboName=FRE22 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
ComboName=FRE22 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0  
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ComboName=FRE22 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0.6  
ComboName=FRE22 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=FRE22 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=FRE23 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
ComboName=FRE23 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
ComboName=FRE23 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
ComboName=FRE23 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1  
ComboName=FRE23 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1  
ComboName=FRE23 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
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ComboName=FRE23 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
ComboName=FRE23 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=FRE23 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
ComboName=FRE23 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
ComboName=FRE23 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0.75  
ComboName=FRE23 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0  
ComboName=FRE23 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
ComboName=FRE23 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
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ComboName=FRE23 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=FRE23 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0.5  
ComboName=FRE23 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=FRE23 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=FRE24 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
ComboName=FRE24 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1

APPROVATO SDP

Società di Progetto  
Brebemi SpA



ComboName=FRE24 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
 ComboName=FRE24 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1  
 ComboName=FRE24 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1  
 ComboName=FRE24 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
 ComboName=FRE24 CaseType="Linear Static" CaseName=ST4S ScaleFactor=0  
 ComboName=FRE24 CaseType="Linear Static" CaseName=ST1D ScaleFactor=1  
 ComboName=FRE24 CaseType="Linear Static" CaseName=ST2D ScaleFactor=1  
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 ComboName=FRE24 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
 ComboName=FRE24 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
 ComboName=FRE24 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
 ComboName=FRE24 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
 ComboName=FRE24 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0.75  
 ComboName=FRE24 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0.75  
 ComboName=FRE24 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
 ComboName=FRE24 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
 ComboName=FRE24 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
 ComboName=FRE24 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
 ComboName=FRE24 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0.5  
 ComboName=FRE24 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
 ComboName=FRE24 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
 ComboName=INVFRE ComboType=Envelope AutoDesign=No CaseType="Response Combo" CaseName=FRE01 ScaleFactor=1 SteelDesign=No  
 ConcDesign=No AlumDesign=No ColdDesign=No  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE02 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE03 ScaleFactor=1  
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 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE07 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE08 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE09 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE10 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE11 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE12 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE13 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE14 ScaleFactor=1  
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 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE16 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE17 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE18 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE19 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE20 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE21 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE22 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE23 ScaleFactor=1  
 ComboName=INVFRE CaseType="Response Combo" CaseName=FRE24 ScaleFactor=1  
 ComboName=QPE01 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
 ConcDesign=No AlumDesign=No ColdDesign=No  
 ComboName=QPE01 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
 ComboName=QPE01 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
 ComboName=QPE01 CaseType="Linear Static" CaseName=ST1S ScaleFactor=0  
 ComboName=QPE01 CaseType="Linear Static" CaseName=ST2S ScaleFactor=0  
 ComboName=QPE01 CaseType="Linear Static" CaseName=ST3S ScaleFactor=1  
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 ComboName=QPE01 CaseType="Linear Static" CaseName=ST2D ScaleFactor=1  
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 ComboName=QPE01 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
 ComboName=QPE01 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
 ComboName=QPE01 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
 ComboName=QPE01 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
 ComboName=QPE01 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0  
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 ComboName=QPE01 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
 ComboName=QPE01 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
 ComboName=QPE01 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0

APPROVATO SDP

Società di Progetto  
Brebemi SpA





ComboName=QPE01 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=QPE01 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=QPE01 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=QPE01 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=QPE02 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
ComboName=QPE02 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
ComboName=QPE02 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
ComboName=QPE02 CaseType="Linear Static" CaseName=ST1S ScaleFactor=0  
ComboName=QPE02 CaseType="Linear Static" CaseName=ST2S ScaleFactor=0  
ComboName=QPE02 CaseType="Linear Static" CaseName=ST3S ScaleFactor=1  
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ComboName=QPE02 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
ComboName=QPE02 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=QPE02 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
ComboName=QPE02 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
ComboName=QPE02 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0  
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ComboName=QPE02 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
ComboName=QPE02 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0.5  
ComboName=QPE02 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
ComboName=QPE02 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=QPE02 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=QPE02 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=QPE02 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=QPE03 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
ComboName=QPE03 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
ComboName=QPE03 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
ComboName=QPE03 CaseType="Linear Static" CaseName=ST1S ScaleFactor=0  
ComboName=QPE03 CaseType="Linear Static" CaseName=ST2S ScaleFactor=0  
ComboName=QPE03 CaseType="Linear Static" CaseName=ST3S ScaleFactor=1  
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ComboName=QPE03 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
ComboName=QPE03 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=QPE03 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
ComboName=QPE03 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
ComboName=QPE03 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0  
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ComboName=QPE03 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
ComboName=QPE03 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0.5  
ComboName=QPE03 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=QPE03 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=QPE03 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=QPE03 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=QPE04 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
ComboName=QPE04 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
ComboName=QPE04 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
ComboName=QPE04 CaseType="Linear Static" CaseName=ST1S ScaleFactor=0  
ComboName=QPE04 CaseType="Linear Static" CaseName=ST2S ScaleFactor=0  
ComboName=QPE04 CaseType="Linear Static" CaseName=ST3S ScaleFactor=1  
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ComboName=QPE04 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
ComboName=QPE04 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=QPE04 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0

APPROVATO SDP

Società di Progetto  
Brebemi SpA



ComboName=QPE04 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
 ComboName=QPE04 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0  
 ComboName=QPE04 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0  
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 ComboName=QPE04 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
 ComboName=QPE04 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0.5  
 ComboName=QPE04 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
 ComboName=QPE04 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
 ComboName=QPE04 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
 ComboName=QPE05 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
 ConcDesign=No AlumDesign=No ColdDesign=No  
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 ComboName=QPE05 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
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 ComboName=QPE05 CaseType="Linear Static" CaseName=ST3S ScaleFactor=1  
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 ComboName=QPE05 CaseType="Linear Static" CaseName=ST3D ScaleFactor=0  
 ComboName=QPE05 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
 ComboName=QPE05 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
 ComboName=QPE05 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
 ComboName=QPE05 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
 ComboName=QPE05 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0  
 ComboName=QPE05 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0  
 ComboName=QPE05 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
 ComboName=QPE05 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
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 ComboName=QPE05 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
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 ComboName=QPE05 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
 ComboName=QPE06 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
 ConcDesign=No AlumDesign=No ColdDesign=No  
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 ComboName=QPE06 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
 ComboName=QPE06 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1  
 ComboName=QPE06 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1  
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 ComboName=QPE06 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
 ComboName=QPE06 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
 ComboName=QPE06 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
 ComboName=QPE06 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
 ComboName=QPE06 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0  
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 ComboName=QPE06 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
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 ConcDesign=No AlumDesign=No ColdDesign=No  
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 ComboName=QPE07 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1  
 ComboName=QPE07 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
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APPROVATO SGP

Società di Progetto  
Brebemi SpA



ComboName=QPE07 CaseType="Linear Static" CaseName=ST1D ScaleFactor=0  
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ComboName=QPE07 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=QPE07 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
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ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=QPE08 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=QPE08 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
ComboName=QPE08 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
ComboName=QPE08 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0  
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ComboName=QPE08 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
ComboName=QPE08 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0.5  
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ComboName=QPE08 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=QPE08 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=QPE08 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
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ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=QPE09 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1  
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ComboName=QPE09 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
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ComboName=QPE09 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
ComboName=QPE09 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0.5  
ComboName=QPE09 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=QPE09 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=QPE09 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=QPE10 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
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APPROVATO SGP

Società di Progetto  
Brebemi SpA





ComboName=QPE10 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
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ComboName=QPE10 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
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ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=INVQPE CaseType="Response Combo" CaseName=QPE09 ScaleFactor=1  
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ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=RAR01 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1  
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ComboName=RAR01 CaseType="Linear Static" CaseName=ST2D ScaleFactor=1  
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ConcDesign=No AlumDesign=No ColdDesign=No  
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APPROVATO SGP

Società di Progetto  
Brebemi SpA





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 ConcDesign=No AlumDesign=No ColdDesign=No  
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 ComboName=RAR03 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
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 ComboName=RAR03 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
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 ComboName=RAR04 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
 ConcDesign=No AlumDesign=No ColdDesign=No  
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 ComboName=RAR04 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
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 ConcDesign=No AlumDesign=No ColdDesign=No  
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APPROVATO SDR

Società di Progetto  
Brebemi SpA





ComboName=RAR05 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
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 ComboName=RAR06 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
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 ConcDesign=No AlumDesign=No ColdDesign=No  
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 ComboName=RAR07 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
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APPROVATO SDP

Società di Progetto  
Brebemi SpA



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APPROVATO SDP

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APPROVATO SGP

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APPROVATO SDP

Società di Progetto  
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APPROVATO SDP

Società di Progetto  
Brebemi SpA




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APPROVATO SGP

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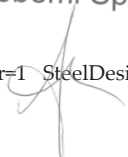




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APPROVATO SDP

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APPROVATO SGP

Società di Progetto  
Brebemi SpA

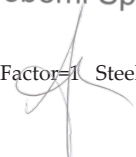




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APPROVATO SDR

Società di Progetto  
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APPROVATO SDP

Società di Progetto  
Brebemi SpA



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APPROVATO SDP

Società di Progetto  
Brebemi SpA



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APPROVATO SGP

Società di Progetto  
**Brebemi SpA**

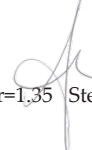




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ComboName=STR08 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0  
ComboName=STR08 CaseType="Linear Static" CaseName=FA01 ScaleFactor=1.35  
ComboName=STR08 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
ComboName=STR08 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
ComboName=STR08 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=STR08 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=STR08 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=STR08 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=STR09 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1.35 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
ComboName=STR09 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1.35  
ComboName=STR09 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
ComboName=STR09 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1.35  
ComboName=STR09 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1.35  
ComboName=STR09 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
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ComboName=STR09 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
ComboName=STR09 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0  
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ComboName=STR09 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=STR09 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=STR09 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=STR09 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=STR10 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1.35 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No

APPROVATO SDP

Società di Progetto  
Brebemi SpA




ComboName=STR10 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1.35  
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ComboName=STR10 CaseType="Linear Static" CaseName=ST1D ScaleFactor=0  
ComboName=STR10 CaseType="Linear Static" CaseName=ST2D ScaleFactor=0  
ComboName=STR10 CaseType="Linear Static" CaseName=ST3D ScaleFactor=1  
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ComboName=STR10 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
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ComboName=STR10 CaseType="Linear Static" CaseName=TC01 ScaleFactor=1.2  
ComboName=STR10 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
ComboName=STR10 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=STR10 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
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ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=STR11 CaseType="Linear Static" CaseName=ST2S ScaleFactor=0  
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ComboName=STR11 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
ComboName=STR11 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0.6  
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ComboName=STR11 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=STR11 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=STR11 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
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ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=STR12 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
ComboName=STR12 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
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ComboName=STR12 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
ComboName=STR12 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0.6  
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APPROVATO SDP

Società di Progetto  
Brebemi SpA



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 ConcDesign=No AlumDesign=No ColdDesign=No  
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 ComboName=STR13 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
 ComboName=STR13 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
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 ComboName=STR13 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
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 ComboName=STR13 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
 ComboName=STR13 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
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 ConcDesign=No AlumDesign=No ColdDesign=No  
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 ComboName=STR14 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
 ComboName=STR14 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1.35  
 ComboName=STR14 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1.35  
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 ComboName=STR14 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
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 ComboName=STR14 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
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 ConcDesign=No AlumDesign=No ColdDesign=No  
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 ComboName=STR15 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
 ComboName=STR15 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
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APPROVATO SDP

Società di Progetto  
Brebemi SpA





ComboName=STR15 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
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ComboName=STR15 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0.6  
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ComboName=STR15 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
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ComboName=STR15 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=STR15 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=STR16 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1.35 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=STR16 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
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ComboName=STR16 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
ComboName=STR16 CaseType="Linear Static" CaseName=QM01 ScaleFactor=1.0125  
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ComboName=STR16 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
ComboName=STR16 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=STR16 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
ComboName=STR16 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
ComboName=STR16 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
ComboName=STR17 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1.35 SteelDesign=No  
ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=STR17 CaseType="Linear Static" CaseName=ST2D ScaleFactor=0  
ComboName=STR17 CaseType="Linear Static" CaseName=ST3D ScaleFactor=1  
ComboName=STR17 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
ComboName=STR17 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
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ComboName=STR17 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=STR17 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
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ConcDesign=No AlumDesign=No ColdDesign=No  
ComboName=STR18 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1.35  
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APPROVATO BDP

Società di Progetto  
**Brebemi SpA**



ComboName=STR18 CaseType="Linear Static" CaseName=ST1D ScaleFactor=0  
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ComboName=STR18 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
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ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=STR19 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
ComboName=STR19 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
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ComboName=STR19 CaseType="Linear Static" CaseName=QM02 ScaleFactor=1.0125  
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ConcDesign=No AlumDesign=No ColdDesign=No  
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ComboName=STR20 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
ComboName=STR20 CaseType="Linear Static" CaseName=TV02 ScaleFactor=0  
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ConcDesign=No AlumDesign=No ColdDesign=No

APPROVATO SDP


Società di Progetto  
Brebemi SpA

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ComboName=STR21 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
ComboName=STR21 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
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APPROVATO SDP

Società di Progetto  
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APPROVATO SDP

Società di Progetto  
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APPROVATO SGP

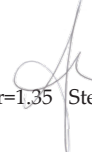
Società di Progetto  
**Brebemi SpA**



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APPROVATO SDP

Società di Progetto  
Brebemi SpA




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 ComboName=STR34 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
 ComboName=STR34 CaseType="Linear Static" CaseName=TC02 ScaleFactor=1.2

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APPROVATO SDP

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APPROVATO SDP

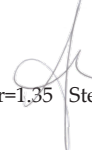
Società di Progetto  
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ConcDesign=No AlumDesign=No ColdDesign=No

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ConcDesign=No AlumDesign=No ColdDesign=No  
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 ComboName=STR47 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
 ComboName=STR47 CaseType="Linear Static" CaseName=QM01 ScaleFactor=0  
 ComboName=STR47 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
 ComboName=STR47 CaseType="Linear Static" CaseName=SQMS ScaleFactor=1.35  
 ComboName=STR47 CaseType="Linear Static" CaseName=SQMD ScaleFactor=1.35  
 ComboName=STR47 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
 ComboName=STR47 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
 ComboName=STR47 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
 ComboName=STR47 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
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 ComboName=STR47 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
 ComboName=STR47 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
 ComboName=STR48 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1.35 SteelDesign=No  
 ConcDesign=No AlumDesign=No ColdDesign=No  
 ComboName=STR48 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1.35  
 ComboName=STR48 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
 ComboName=STR48 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1.35  
 ComboName=STR48 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1.35  
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 ComboName=STR48 CaseType="Linear Static" CaseName=ST4S ScaleFactor=0  
 ComboName=STR48 CaseType="Linear Static" CaseName=ST1D ScaleFactor=0  
 ComboName=STR48 CaseType="Linear Static" CaseName=ST2D ScaleFactor=0  
 ComboName=STR48 CaseType="Linear Static" CaseName=ST3D ScaleFactor=1  
 ComboName=STR48 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
 ComboName=STR48 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
 ComboName=STR48 CaseType="Linear Static" CaseName=QM01 ScaleFactor=1.0125

APPROVATO SDP

Società di Progetto  
Brebemi SpA



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ComboName=STR48 CaseType="Linear Static" CaseName=QM02 ScaleFactor=1.0125  
 ComboName=STR48 CaseType="Linear Static" CaseName=SQMS ScaleFactor=1.0125  
 ComboName=STR48 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0  
 ComboName=STR48 CaseType="Linear Static" CaseName=FA01 ScaleFactor=1.35  
 ComboName=STR48 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
 ComboName=STR48 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
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 ComboName=STR48 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
 ComboName=STR48 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
 ComboName=STR49 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1.35 SteelDesign=No  
 ConcDesign=No AlumDesign=No ColdDesign=No  
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 ComboName=STR49 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
 ComboName=STR49 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
 ComboName=STR49 CaseType="Linear Static" CaseName=QM01 ScaleFactor=1.0125  
 ComboName=STR49 CaseType="Linear Static" CaseName=QM02 ScaleFactor=1.0125  
 ComboName=STR49 CaseType="Linear Static" CaseName=SQMS ScaleFactor=0  
 ComboName=STR49 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0  
 ComboName=STR49 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
 ComboName=STR49 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
 ComboName=STR49 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
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 ComboName=STR49 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
 ComboName=STR49 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
 ComboName=STR50 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1.35 SteelDesign=No  
 ConcDesign=No AlumDesign=No ColdDesign=No  
 ComboName=STR50 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1.35  
 ComboName=STR50 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
 ComboName=STR50 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1.35  
 ComboName=STR50 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1.35  
 ComboName=STR50 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
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 ComboName=STR50 CaseType="Linear Static" CaseName=ST4D ScaleFactor=1  
 ComboName=STR50 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
 ComboName=STR50 CaseType="Linear Static" CaseName=QM01 ScaleFactor=1.0125  
 ComboName=STR50 CaseType="Linear Static" CaseName=QM02 ScaleFactor=1.0125  
 ComboName=STR50 CaseType="Linear Static" CaseName=SQMS ScaleFactor=1.0125  
 ComboName=STR50 CaseType="Linear Static" CaseName=SQMD ScaleFactor=0  
 ComboName=STR50 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
 ComboName=STR50 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
 ComboName=STR50 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
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 ComboName=STR50 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
 ComboName=STR50 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
 ComboName=STR51 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1.35 SteelDesign=No  
 ConcDesign=No AlumDesign=No ColdDesign=No  
 ComboName=STR51 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1.35  
 ComboName=STR51 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
 ComboName=STR51 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1.35  
 ComboName=STR51 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1.35  
 ComboName=STR51 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
 ComboName=STR51 CaseType="Linear Static" CaseName=ST4S ScaleFactor=0

APPROVATO BDP

Società di Progetto  
**Brebemi SpA**





ComboName=STR51 CaseType="Linear Static" CaseName=ST1D ScaleFactor=1.35  
 ComboName=STR51 CaseType="Linear Static" CaseName=ST2D ScaleFactor=1.35  
 ComboName=STR51 CaseType="Linear Static" CaseName=ST3D ScaleFactor=0  
 ComboName=STR51 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
 ComboName=STR51 CaseType="Linear Static" CaseName=DSTD ScaleFactor=0  
 ComboName=STR51 CaseType="Linear Static" CaseName=QM01 ScaleFactor=1.0125  
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 ComboName=STR51 CaseType="Linear Static" CaseName=SQMS ScaleFactor=1.0125  
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 ComboName=STR51 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
 ComboName=STR51 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
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 ComboName=STR51 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
 ComboName=STR51 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
 ComboName=STR52 ComboType="Linear Add" AutoDesign=No CaseType="Linear Static" CaseName=PPST ScaleFactor=1 SteelDesign=No  
 ConcDesign=No AlumDesign=No ColdDesign=No  
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 ComboName=STR52 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
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 ComboName=STR52 CaseType="Linear Static" CaseName=FA01 ScaleFactor=0  
 ComboName=STR52 CaseType="Linear Static" CaseName=TC01 ScaleFactor=0  
 ComboName=STR52 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
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 ComboName=STR52 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
 ComboName=STR52 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
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 ConcDesign=No AlumDesign=No ColdDesign=No  
 ComboName=STR53 CaseType="Linear Static" CaseName=PPNS ScaleFactor=1  
 ComboName=STR53 CaseType="Linear Static" CaseName=PPAQ ScaleFactor=0  
 ComboName=STR53 CaseType="Linear Static" CaseName=ST1S ScaleFactor=1.35  
 ComboName=STR53 CaseType="Linear Static" CaseName=ST2S ScaleFactor=1.35  
 ComboName=STR53 CaseType="Linear Static" CaseName=ST3S ScaleFactor=0  
 ComboName=STR53 CaseType="Linear Static" CaseName=ST4S ScaleFactor=0  
 ComboName=STR53 CaseType="Linear Static" CaseName=ST1D ScaleFactor=1.35  
 ComboName=STR53 CaseType="Linear Static" CaseName=ST2D ScaleFactor=1.35  
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 ComboName=STR53 CaseType="Linear Static" CaseName=ST4D ScaleFactor=0  
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 ComboName=STR53 CaseType="Linear Static" CaseName=QM02 ScaleFactor=0  
 ComboName=STR53 CaseType="Linear Static" CaseName=SQMS ScaleFactor=1.0125  
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 ComboName=STR53 CaseType="Linear Static" CaseName=TC02 ScaleFactor=0  
 ComboName=STR53 CaseType="Linear Static" CaseName=TV01 ScaleFactor=0  
 ComboName=STR53 CaseType="Linear Static" CaseName=TV02 ScaleFactor=1.2  
 ComboName=STR53 CaseType="Linear Static" CaseName=SSTS ScaleFactor=0  
 ComboName=STR53 CaseType="Linear Static" CaseName=IS01 ScaleFactor=0  
 ComboName=INVSTR ComboType=Envelope AutoDesign=No CaseType="Response Combo" CaseName=STR01 ScaleFactor=1 SteelDesign=No  
 ConcDesign=No AlumDesign=No ColdDesign=No

APPROVATO SDP

Società di Progetto  
Brebemi SpA

ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR02	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR03	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR04	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR05	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR06	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR07	ScaleFactor=1
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ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR09	ScaleFactor=1
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ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR11	ScaleFactor=1
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ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR38	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR39	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR40	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR41	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR42	ScaleFactor=1
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ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR46	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR47	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR48	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR49	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR50	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR51	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR52	ScaleFactor=1
ComboName=INVSTR	CaseType="Response Combo"	CaseName=STR53	ScaleFactor=1

APPROVATO SDP


TABLE: "FUNCTION - RESPONSE SPECTRUM - USER"  
 Name=UNIFRS Period=0 Accel=1 FuncDamp=0.05  
 Name=UNIFRS Period=1 Accel=1

TABLE: "FUNCTION - TIME HISTORY - USER"  
 Name=RAMPPTH Time=0 Value=0  
 Name=RAMPPTH Time=1 Value=1  
 Name=RAMPPTH Time=4 Value=1  
 Name=UNIFTH Time=0 Value=1  
 Name=UNIFTH Time=1 Value=1

TABLE: "FUNCTION - POWER SPECTRAL DENSITY - USER"  
 Name=UNIFPSD Frequency=0 Value=1

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Name=UNIFPSD Frequency=1 Value=1

TABLE: "FUNCTION - STEADY STATE - USER"

Name=UNIFSS Frequency=0 Value=1  
Name=UNIFSS Frequency=1 Value=1

TABLE: "GROUPS 1 - DEFINITIONS"

GroupName=All Selection=Yes SectionCut=Yes Steel=Yes Concrete=Yes Aluminum=Yes ColdFormed=Yes Stage=Yes Bridge=Yes AutoSeismic=No  
AutoWind=No MassWeight=Yes

TABLE: "GROUPS 3 - MASSES AND WEIGHTS"

GroupName=All SelfMass=18.1636946739619 SelfWeight=178.125 TotalMassX=18.1636946739619 TotalMassY=18.1636946739619  
TotalMassZ=18.1636946739619

TABLE: "JOINT PATTERN DEFINITIONS"

Pattern=DEFAULT

TABLE: "MASSES 1 - MASS SOURCE"

MassFrom=Elements

TABLE: "FUNCTION - PLOT FUNCTIONS"

PlotFunc="Input Energy" Type=Energy Component=Input Mode=All

TABLE: "ANALYSIS CASE DEFINITIONS"

Case=PPST Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=PPNS Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST1D Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST2D Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST3D Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST4D Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST1S Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST2S Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST3S Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST4S Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST1DG Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST2DG Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST3DG Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST4DG Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST1SG Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST2SG Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST3SG Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=ST4SG Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=QM01 Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=QM02 Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=SQMD Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=SQMS Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=SQMDG Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=SQMSG Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=FA01 Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=IS01 Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=SSTS Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=TC01 Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=TC02 Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=TV01 Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=TV02 Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=PPAQ Type=LinStatic InitialCond=Zero RunCase=Yes  
Case=DSTD Type=LinStatic InitialCond=Zero RunCase=Yes

TABLE: "CASE - STATIC 1 - LOAD ASSIGNMENTS"

Case=PPST LoadType="Load case" LoadName=PPST LoadSF=1  
Case=PPNS LoadType="Load case" LoadName=PPNS LoadSF=1  
Case=ST1D LoadType="Load case" LoadName=ST1D LoadSF=1  
Case=ST2D LoadType="Load case" LoadName=ST2D LoadSF=1  
Case=ST3D LoadType="Load case" LoadName=ST3D LoadSF=1  
Case=ST4D LoadType="Load case" LoadName=ST4D LoadSF=1  
Case=ST1S LoadType="Load case" LoadName=ST1S LoadSF=1

APPROVATO SDP

Società di Progetto  
Brebemi SpA



Case=ST2S LoadType="Load case" LoadName=ST2S LoadSF=1  
Case=ST3S LoadType="Load case" LoadName=ST3S LoadSF=1  
Case=ST4S LoadType="Load case" LoadName=ST4S LoadSF=1  
Case=ST1DG LoadType="Load case" LoadName=ST1DG LoadSF=1  
Case=ST2DG LoadType="Load case" LoadName=ST2DG LoadSF=1  
Case=ST3DG LoadType="Load case" LoadName=ST3DG LoadSF=1  
Case=ST4DG LoadType="Load case" LoadName=ST4DG LoadSF=1  
Case=ST1SG LoadType="Load case" LoadName=ST1SG LoadSF=1  
Case=ST2SG LoadType="Load case" LoadName=ST2SG LoadSF=1  
Case=ST3SG LoadType="Load case" LoadName=ST3SG LoadSF=1  
Case=ST4SG LoadType="Load case" LoadName=ST4SG LoadSF=1  
Case=QM01 LoadType="Load case" LoadName=QM01 LoadSF=1  
Case=QM02 LoadType="Load case" LoadName=QM02 LoadSF=1  
Case=SQMD LoadType="Load case" LoadName=SQMD LoadSF=1  
Case=SQMS LoadType="Load case" LoadName=SQMS LoadSF=1  
Case=SQMDG LoadType="Load case" LoadName=SQMDG LoadSF=1  
Case=SQMSG LoadType="Load case" LoadName=SQMSG LoadSF=1  
Case=FA01 LoadType="Load case" LoadName=FA01 LoadSF=1  
Case=IS01 LoadType="Load case" LoadName=IS01 LoadSF=1  
Case=SSTS LoadType="Load case" LoadName=SSTS LoadSF=1  
Case=TC01 LoadType="Load case" LoadName=TC01 LoadSF=1  
Case=TC02 LoadType="Load case" LoadName=TC02 LoadSF=1  
Case=TV01 LoadType="Load case" LoadName=TV01 LoadSF=1  
Case=TV02 LoadType="Load case" LoadName=TV02 LoadSF=1  
Case=PPAQ LoadType="Load case" LoadName=PPAQ LoadSF=1  
Case=DSTD LoadType="Load case" LoadName=DSTD LoadSF=1

TABLE: "JOINT COORDINATES"

Joint=1	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2.65	Y=0	Z=0	SpecialJt=Yes	GlobalX=-2.65	GlobalY=0	GlobalZ=0
Joint=2	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2.45	Y=0	Z=0	SpecialJt=Yes	GlobalX=-2.45	GlobalY=0	GlobalZ=0
Joint=3	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2.3375	Y=0	Z=0	SpecialJt=Yes	GlobalX=-2.3375	GlobalY=0	GlobalZ=0
Joint=4	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2.225	Y=0	Z=0	SpecialJt=Yes	GlobalX=-2.225	GlobalY=0	GlobalZ=0
Joint=5	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2.1125	Y=0	Z=0	SpecialJt=Yes	GlobalX=-2.1125	GlobalY=0	GlobalZ=0
Joint=6	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2	Y=0	Z=0	SpecialJt=Yes	GlobalX=-2	GlobalY=0	GlobalZ=0
Joint=7	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-1	Y=0	Z=0	SpecialJt=Yes	GlobalX=-1	GlobalY=0	GlobalZ=0
Joint=8	CoordSys=GLOBAL	CoordType=Cartesian	XorR=0	Y=0	Z=0	SpecialJt=Yes	GlobalX=0	GlobalY=0	GlobalZ=0
Joint=9	CoordSys=GLOBAL	CoordType=Cartesian	XorR=1	Y=0	Z=0	SpecialJt=Yes	GlobalX=1	GlobalY=0	GlobalZ=0
Joint=10	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2	Y=0	Z=0	SpecialJt=Yes	GlobalX=2	GlobalY=0	GlobalZ=0
Joint=11	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2.1125	Y=0	Z=0	SpecialJt=Yes	GlobalX=2.1125	GlobalY=0	GlobalZ=0
Joint=12	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2.225	Y=0	Z=0	SpecialJt=Yes	GlobalX=2.225	GlobalY=0	GlobalZ=0
Joint=13	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2.3375	Y=0	Z=0	SpecialJt=Yes	GlobalX=2.3375	GlobalY=0	GlobalZ=0
Joint=14	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2.45	Y=0	Z=0	SpecialJt=Yes	GlobalX=2.45	GlobalY=0	GlobalZ=0
Joint=15	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2.65	Y=0	Z=0	SpecialJt=Yes	GlobalX=2.65	GlobalY=0	GlobalZ=0
Joint=16	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2.225	Y=0	Z=2.5	SpecialJt=Yes	GlobalX=-2.225	GlobalY=0	GlobalZ=2.5
Joint=17	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2.1125	Y=0	Z=2.5	SpecialJt=Yes	GlobalX=-2.1125	GlobalY=0	GlobalZ=2.5
Joint=18	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2	Y=0	Z=2.5	SpecialJt=Yes	GlobalX=-2	GlobalY=0	GlobalZ=2.5
Joint=19	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-1	Y=0	Z=2.5	SpecialJt=Yes	GlobalX=-1	GlobalY=0	GlobalZ=2.5
Joint=20	CoordSys=GLOBAL	CoordType=Cartesian	XorR=0	Y=0	Z=2.5	SpecialJt=Yes	GlobalX=0	GlobalY=0	GlobalZ=2.5
Joint=21	CoordSys=GLOBAL	CoordType=Cartesian	XorR=1	Y=0	Z=2.5	SpecialJt=Yes	GlobalX=1	GlobalY=0	GlobalZ=2.5
Joint=22	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2	Y=0	Z=2.5	SpecialJt=Yes	GlobalX=2	GlobalY=0	GlobalZ=2.5
Joint=23	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2.1125	Y=0	Z=2.5	SpecialJt=Yes	GlobalX=2.1125	GlobalY=0	GlobalZ=2.5
Joint=24	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2.225	Y=0	Z=2.5	SpecialJt=Yes	GlobalX=2.225	GlobalY=0	GlobalZ=2.5
Joint=25	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2.225	Y=0	Z=0.125	SpecialJt=Yes	GlobalX=-2.225	GlobalY=0	GlobalZ=0.125
Joint=26	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2.225	Y=0	Z=0.25	SpecialJt=Yes	GlobalX=-2.225	GlobalY=0	GlobalZ=0.25
Joint=27	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2.225	Y=0	Z=0.75	SpecialJt=Yes	GlobalX=-2.225	GlobalY=0	GlobalZ=0.75
Joint=28	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2.225	Y=0	Z=1.25	SpecialJt=Yes	GlobalX=-2.225	GlobalY=0	GlobalZ=1.25
Joint=29	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2.225	Y=0	Z=1.75	SpecialJt=Yes	GlobalX=-2.225	GlobalY=0	GlobalZ=1.75
Joint=30	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2.225	Y=0	Z=2.25	SpecialJt=Yes	GlobalX=-2.225	GlobalY=0	GlobalZ=2.25
Joint=31	CoordSys=GLOBAL	CoordType=Cartesian	XorR=-2.225	Y=0	Z=2.375	SpecialJt=Yes	GlobalX=-2.225	GlobalY=0	GlobalZ=2.375
Joint=32	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2.225	Y=0	Z=0.125	SpecialJt=Yes	GlobalX=2.225	GlobalY=0	GlobalZ=0.125
Joint=33	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2.225	Y=0	Z=0.25	SpecialJt=Yes	GlobalX=2.225	GlobalY=0	GlobalZ=0.25
Joint=34	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2.225	Y=0	Z=0.75	SpecialJt=Yes	GlobalX=2.225	GlobalY=0	GlobalZ=0.75
Joint=35	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2.225	Y=0	Z=1.25	SpecialJt=Yes	GlobalX=2.225	GlobalY=0	GlobalZ=1.25
Joint=36	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2.225	Y=0	Z=1.75	SpecialJt=Yes	GlobalX=2.225	GlobalY=0	GlobalZ=1.75
Joint=37	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2.225	Y=0	Z=2.25	SpecialJt=Yes	GlobalX=2.225	GlobalY=0	GlobalZ=2.25
Joint=38	CoordSys=GLOBAL	CoordType=Cartesian	XorR=2.225	Y=0	Z=2.375	SpecialJt=Yes	GlobalX=2.225	GlobalY=0	GlobalZ=2.375

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TABLE: "CONNECTIVITY - FRAME"

Frame=1	JointI=1	JointJ=2	IsCurved=No	Length=0.2	CentroidX=-2.55	CentroidY=0	CentroidZ=0
Frame=2	JointI=2	JointJ=3	IsCurved=No	Length=0.1125	CentroidX=-2.39375	CentroidY=0	CentroidZ=0
Frame=3	JointI=3	JointJ=4	IsCurved=No	Length=0.1125	CentroidX=-2.28125	CentroidY=0	CentroidZ=0
Frame=4	JointI=4	JointJ=5	IsCurved=No	Length=0.1125	CentroidX=-2.16875	CentroidY=0	CentroidZ=0
Frame=5	JointI=5	JointJ=6	IsCurved=No	Length=0.1125	CentroidX=-2.05625	CentroidY=0	CentroidZ=0
Frame=6	JointI=6	JointJ=7	IsCurved=No	Length=1	CentroidX=-1.5	CentroidY=0	CentroidZ=0
Frame=7	JointI=7	JointJ=8	IsCurved=No	Length=1	CentroidX=-0.5	CentroidY=0	CentroidZ=0
Frame=8	JointI=8	JointJ=9	IsCurved=No	Length=1	CentroidX=0.5	CentroidY=0	CentroidZ=0
Frame=9	JointI=9	JointJ=10	IsCurved=No	Length=1	CentroidX=1.5	CentroidY=0	CentroidZ=0
Frame=10	JointI=10	JointJ=11	IsCurved=No	Length=0.1125	CentroidX=2.05625	CentroidY=0	CentroidZ=0
Frame=11	JointI=11	JointJ=12	IsCurved=No	Length=0.1125	CentroidX=2.16875	CentroidY=0	CentroidZ=0
Frame=12	JointI=12	JointJ=13	IsCurved=No	Length=0.1125	CentroidX=2.28125	CentroidY=0	CentroidZ=0
Frame=13	JointI=13	JointJ=14	IsCurved=No	Length=0.1125	CentroidX=2.39375	CentroidY=0	CentroidZ=0
Frame=14	JointI=14	JointJ=15	IsCurved=No	Length=0.2	CentroidX=2.55	CentroidY=0	CentroidZ=0
Frame=15	JointI=16	JointJ=17	IsCurved=No	Length=0.1125	CentroidX=-2.16875	CentroidY=0	CentroidZ=2.5
Frame=16	JointI=17	JointJ=18	IsCurved=No	Length=0.1125	CentroidX=-2.05625	CentroidY=0	CentroidZ=2.5
Frame=17	JointI=18	JointJ=19	IsCurved=No	Length=1	CentroidX=-1.5	CentroidY=0	CentroidZ=2.5
Frame=18	JointI=19	JointJ=20	IsCurved=No	Length=1	CentroidX=-0.5	CentroidY=0	CentroidZ=2.5
Frame=19	JointI=20	JointJ=21	IsCurved=No	Length=1	CentroidX=0.5	CentroidY=0	CentroidZ=2.5
Frame=20	JointI=21	JointJ=22	IsCurved=No	Length=1	CentroidX=1.5	CentroidY=0	CentroidZ=2.5
Frame=21	JointI=22	JointJ=23	IsCurved=No	Length=0.1125	CentroidX=2.05625	CentroidY=0	CentroidZ=2.5
Frame=22	JointI=23	JointJ=24	IsCurved=No	Length=0.1125	CentroidX=2.16875	CentroidY=0	CentroidZ=2.5
Frame=23	JointI=4	JointJ=25	IsCurved=No	Length=0.125	CentroidX=-2.225	CentroidY=0	CentroidZ=0.0625
Frame=24	JointI=25	JointJ=26	IsCurved=No	Length=0.125	CentroidX=-2.225	CentroidY=0	CentroidZ=0.1875
Frame=25	JointI=26	JointJ=27	IsCurved=No	Length=0.5	CentroidX=-2.225	CentroidY=0	CentroidZ=0.5
Frame=26	JointI=27	JointJ=28	IsCurved=No	Length=0.5	CentroidX=-2.225	CentroidY=0	CentroidZ=1
Frame=27	JointI=28	JointJ=29	IsCurved=No	Length=0.5	CentroidX=-2.225	CentroidY=0	CentroidZ=1.5
Frame=28	JointI=29	JointJ=30	IsCurved=No	Length=0.5	CentroidX=-2.225	CentroidY=0	CentroidZ=2
Frame=29	JointI=30	JointJ=31	IsCurved=No	Length=0.125	CentroidX=-2.225	CentroidY=0	CentroidZ=2.3125
Frame=30	JointI=31	JointJ=16	IsCurved=No	Length=0.125	CentroidX=-2.225	CentroidY=0	CentroidZ=2.4375
Frame=31	JointI=12	JointJ=32	IsCurved=No	Length=0.125	CentroidX=2.225	CentroidY=0	CentroidZ=0.0625
Frame=32	JointI=32	JointJ=33	IsCurved=No	Length=0.125	CentroidX=2.225	CentroidY=0	CentroidZ=0.1875
Frame=33	JointI=33	JointJ=34	IsCurved=No	Length=0.5	CentroidX=2.225	CentroidY=0	CentroidZ=0.5
Frame=34	JointI=34	JointJ=35	IsCurved=No	Length=0.5	CentroidX=2.225	CentroidY=0	CentroidZ=1
Frame=35	JointI=35	JointJ=36	IsCurved=No	Length=0.5	CentroidX=2.225	CentroidY=0	CentroidZ=1.5
Frame=36	JointI=36	JointJ=37	IsCurved=No	Length=0.5	CentroidX=2.225	CentroidY=0	CentroidZ=2
Frame=37	JointI=37	JointJ=38	IsCurved=No	Length=0.125	CentroidX=2.225	CentroidY=0	CentroidZ=2.3125
Frame=38	JointI=38	JointJ=24	IsCurved=No	Length=0.125	CentroidX=2.225	CentroidY=0	CentroidZ=2.4375

TABLE: "JOINT SPRING ASSIGNMENTS 1 - UNCOUPLED"

Joint=1	CoordSys=Local	U1=500	U2=0	U3=100	R1=0	R2=0	R3=0
Joint=2	CoordSys=Local	U1=0	U2=0	U3=156.25	R1=0	R2=0	R3=0
Joint=3	CoordSys=Local	U1=0	U2=0	U3=112.5	R1=0	R2=0	R3=0
Joint=4	CoordSys=Local	U1=0	U2=0	U3=112.5	R1=0	R2=0	R3=0
Joint=5	CoordSys=Local	U1=0	U2=0	U3=112.5	R1=0	R2=0	R3=0
Joint=6	CoordSys=Local	U1=0	U2=0	U3=556.25	R1=0	R2=0	R3=0
Joint=7	CoordSys=Local	U1=0	U2=0	U3=1000	R1=0	R2=0	R3=0
Joint=8	CoordSys=Local	U1=0	U2=0	U3=1000	R1=0	R2=0	R3=0
Joint=9	CoordSys=Local	U1=0	U2=0	U3=1000	R1=0	R2=0	R3=0
Joint=10	CoordSys=Local	U1=0	U2=0	U3=556.25	R1=0	R2=0	R3=0
Joint=11	CoordSys=Local	U1=0	U2=0	U3=112.5	R1=0	R2=0	R3=0
Joint=12	CoordSys=Local	U1=0	U2=0	U3=112.5	R1=0	R2=0	R3=0
Joint=13	CoordSys=Local	U1=0	U2=0	U3=112.5	R1=0	R2=0	R3=0
Joint=14	CoordSys=Local	U1=0	U2=0	U3=156.25	R1=0	R2=0	R3=0
Joint=15	CoordSys=Local	U1=500	U2=0	U3=100	R1=0	R2=0	R3=0

TABLE: "FRAME SECTION ASSIGNMENTS"

Frame=1	SectionType=Rectangular	AutoSelect=N.A.	AnalSect=SOLETTA-INF	DesignSect=SOLETTA-INF	MatProp=Default
Frame=2	SectionType=Rectangular	AutoSelect=N.A.	AnalSect=SOLETTA-INF	DesignSect=SOLETTA-INF	MatProp=Default
Frame=3	SectionType=Rectangular	AutoSelect=N.A.	AnalSect=SOLETTA-INF	DesignSect=SOLETTA-INF	MatProp=Default
Frame=4	SectionType=Rectangular	AutoSelect=N.A.	AnalSect=SOLETTA-INF	DesignSect=SOLETTA-INF	MatProp=Default
Frame=5	SectionType=Rectangular	AutoSelect=N.A.	AnalSect=SOLETTA-INF	DesignSect=SOLETTA-INF	MatProp=Default
Frame=6	SectionType=Rectangular	AutoSelect=N.A.	AnalSect=SOLETTA-INF	DesignSect=SOLETTA-INF	MatProp=Default
Frame=7	SectionType=Rectangular	AutoSelect=N.A.	AnalSect=SOLETTA-INF	DesignSect=SOLETTA-INF	MatProp=Default

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Frame=34 StationType=MinNumSta MinNumSta=3 AddAtElmInt=Yes AddAtPtLoad=Yes  
 Frame=35 StationType=MinNumSta MinNumSta=3 AddAtElmInt=Yes AddAtPtLoad=Yes  
 Frame=36 StationType=MinNumSta MinNumSta=3 AddAtElmInt=Yes AddAtPtLoad=Yes  
 Frame=37 StationType=MinNumSta MinNumSta=3 AddAtElmInt=Yes AddAtPtLoad=Yes  
 Frame=38 StationType=MinNumSta MinNumSta=3 AddAtElmInt=Yes AddAtPtLoad=Yes

TABLE: "FRAME AUTO MESH ASSIGNMENTS"

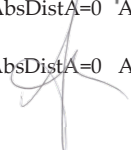
Frame=1	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=2	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=3	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=4	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=5	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=6	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=7	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=8	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=9	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=10	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=11	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=12	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=13	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=14	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=15	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=16	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=17	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=18	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=19	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=20	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=21	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=22	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=23	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=24	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=25	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=26	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=27	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=28	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=29	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=30	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=31	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=32	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=33	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=34	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=35	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=36	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=37	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0
Frame=38	AutoMesh=Yes	AtJoints=Yes	AtFrames=No	NumSegments=0	MaxLength=0	MaxDegrees=0

TABLE: "FRAME LOADS - DISTRIBUTED"

Frame=1	LoadCase=PPNS	CoordSys=GLOBAL	Type=Force	Dir=Gravity	DistType=RelDist	RelDistA=0	RelDistB=1	AbsDistA=0	AbsDistB=0.2
FOverLA=77	FOverLB=77								
Frame=6	LoadCase=PPAQ	CoordSys=GLOBAL	Type=Force	Dir=Gravity	DistType=RelDist	RelDistA=0	RelDistB=1	AbsDistA=0	AbsDistB=1
FOverLA=10	FOverLB=10								
Frame=7	LoadCase=PPAQ	CoordSys=GLOBAL	Type=Force	Dir=Gravity	DistType=RelDist	RelDistA=0	RelDistB=1	AbsDistA=0	AbsDistB=1
FOverLA=10	FOverLB=10								
Frame=8	LoadCase=PPAQ	CoordSys=GLOBAL	Type=Force	Dir=Gravity	DistType=RelDist	RelDistA=0	RelDistB=1	AbsDistA=0	AbsDistB=1
FOverLA=10	FOverLB=10								
Frame=9	LoadCase=PPAQ	CoordSys=GLOBAL	Type=Force	Dir=Gravity	DistType=RelDist	RelDistA=0	RelDistB=1	AbsDistA=0	AbsDistB=1
FOverLA=10	FOverLB=10								
Frame=14	LoadCase=PPNS	CoordSys=GLOBAL	Type=Force	Dir=Gravity	DistType=RelDist	RelDistA=0	RelDistB=1	AbsDistA=0	AbsDistB=0.2
FOverLA=77	FOverLB=77								
Frame=15	LoadCase=PPNS	CoordSys=GLOBAL	Type=Force	Dir=Gravity	DistType=RelDist	RelDistA=0	RelDistB=1	AbsDistA=0	AbsDistB=0.1125
FOverLA=27	FOverLB=27								
Frame=15	LoadCase=QM01	CoordSys=GLOBAL	Type=Force	Dir=Gravity	DistType=RelDist	RelDistA=0	RelDistB=1	AbsDistA=0	AbsDistB=0.1125
FOverLA=44	FOverLB=44								
Frame=15	LoadCase=QM02	CoordSys=GLOBAL	Type=Force	Dir=Gravity	DistType=RelDist	RelDistA=0	RelDistB=1	AbsDistA=0	AbsDistB=0.1125
FOverLA=9	FOverLB=9								

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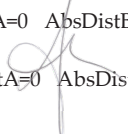




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Frame=22 LoadCase=QM01 CoordSys=GLOBAL Type=Force Dir=Gravity DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.1125  
 FOverLA=44 FOverLB=44  
 Frame=22 LoadCase=QM02 CoordSys=GLOBAL Type=Force Dir=Gravity DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.1125  
 FOverLA=9 FOverLB=9  
 Frame=22 LoadCase=FA01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.1125  
 FOverLA=3.9 FOverLB=3.9  
 Frame=22 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.1125  
 FOverLA=11.1 FOverLB=11.1  
 Frame=23 LoadCase=ST1S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=12.16 FOverLB=12.16  
 Frame=23 LoadCase=ST3S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=7.62 FOverLB=7.62  
 Frame=23 LoadCase=ST2S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=19 FOverLB=18.05  
 Frame=23 LoadCase=ST4S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=0 FOverLB=11.31  
 Frame=23 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=0 FOverLB=0.36  
 Frame=23 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=9.86 FOverLB=9.86  
 Frame=23 LoadCase=SSTS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=24.43 FOverLB=24.43  
 Frame=23 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=3.17 FOverLB=3.17  
 Frame=24 LoadCase=ST1S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=12.16 FOverLB=12.16  
 Frame=24 LoadCase=ST3S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=7.62 FOverLB=7.62  
 Frame=24 LoadCase=ST2S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=18.05 FOverLB=17.1  
 Frame=24 LoadCase=ST4S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=11.31 FOverLB=10.71  
 Frame=24 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=0.36 FOverLB=0.72  
 Frame=24 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=9.86 FOverLB=9.86  
 Frame=24 LoadCase=SSTS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=24.43 FOverLB=24.43  
 Frame=24 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=3.17 FOverLB=3.17  
 Frame=25 LoadCase=ST1S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=12.16 FOverLB=12.16  
 Frame=25 LoadCase=ST3S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=7.62 FOverLB=7.62  
 Frame=25 LoadCase=ST2S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=17.1 FOverLB=13.3  
 Frame=25 LoadCase=ST4S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=10.71 FOverLB=8.33  
 Frame=25 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=0.72 FOverLB=2.14  
 Frame=25 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=9.86 FOverLB=9.86  
 Frame=25 LoadCase=SSTS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=24.43 FOverLB=24.43  
 Frame=25 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=3.17 FOverLB=3.17  
 Frame=26 LoadCase=ST1S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=12.16 FOverLB=12.16  
 Frame=26 LoadCase=ST3S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=7.62 FOverLB=7.62  
 Frame=26 LoadCase=ST2S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=13.3 FOverLB=9.5  
 Frame=26 LoadCase=ST4S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=8.33 FOverLB=5.95  
 Frame=26 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=2.14 FOverLB=3.56

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Frame=26 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=9.86 FOverLB=9.86  
Frame=26 LoadCase=SSTS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=24.43 FOverLB=24.43  
Frame=26 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=3.17 FOverLB=3.17  
Frame=27 LoadCase=ST1S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=12.16 FOverLB=12.16  
Frame=27 LoadCase=ST3S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=7.62 FOverLB=7.62  
Frame=27 LoadCase=ST2S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=9.5 FOverLB=5.7  
Frame=27 LoadCase=ST4S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=5.95 FOverLB=3.57  
Frame=27 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=3.56 FOverLB=4.99  
Frame=27 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=9.86 FOverLB=9.86  
Frame=27 LoadCase=SSTS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=24.43 FOverLB=24.43  
Frame=27 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=3.17 FOverLB=3.17  
Frame=28 LoadCase=ST1S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=12.16 FOverLB=12.16  
Frame=28 LoadCase=ST3S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=7.62 FOverLB=7.62  
Frame=28 LoadCase=ST2S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=5.7 FOverLB=1.9  
Frame=28 LoadCase=ST4S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=3.57 FOverLB=1.19  
Frame=28 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=4.99 FOverLB=6.41  
Frame=28 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=9.86 FOverLB=9.86  
Frame=28 LoadCase=SSTS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=24.43 FOverLB=24.43  
Frame=28 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=3.17 FOverLB=3.17  
Frame=29 LoadCase=ST1S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=12.16 FOverLB=12.16  
Frame=29 LoadCase=ST3S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=7.62 FOverLB=7.62  
Frame=29 LoadCase=ST2S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=1.9 FOverLB=0.95  
Frame=29 LoadCase=ST4S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=1.19 FOverLB=0.6  
Frame=29 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=6.41 FOverLB=6.77  
Frame=29 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=9.86 FOverLB=9.86  
Frame=29 LoadCase=SSTS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=24.43 FOverLB=24.43  
Frame=29 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=3.17 FOverLB=3.17  
Frame=30 LoadCase=ST1S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=12.16 FOverLB=12.16  
Frame=30 LoadCase=ST3S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=7.62 FOverLB=7.62  
Frame=30 LoadCase=ST2S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=0.95 FOverLB=0  
Frame=30 LoadCase=ST4S CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=0.6 FOverLB=0  
Frame=30 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=6.77 FOverLB=7.12  
Frame=30 LoadCase=SQMS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=9.86 FOverLB=9.86



Frame=30 LoadCase=SSTS CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=24.43 FOverLB=24.43  
Frame=30 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=3.17 FOverLB=3.17  
Frame=31 LoadCase=ST1D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=-12.16 FOverLB=-12.16  
Frame=31 LoadCase=ST3D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=-7.62 FOverLB=-7.62  
Frame=31 LoadCase=ST2D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=-19 FOverLB=-18.05  
Frame=31 LoadCase=ST4D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=-11.9 FOverLB=-11.31  
Frame=31 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=0 FOverLB=-0.36  
Frame=31 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=-9.86 FOverLB=-9.86  
Frame=31 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=3.17 FOverLB=3.17  
Frame=32 LoadCase=ST1D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=-12.16 FOverLB=-12.16  
Frame=32 LoadCase=ST3D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=-7.62 FOverLB=-7.62  
Frame=32 LoadCase=ST2D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=-18.05 FOverLB=-17.1  
Frame=32 LoadCase=ST4D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=-11.31 FOverLB=-10.71  
Frame=32 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=0.36 FOverLB=-0.72  
Frame=32 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=-9.86 FOverLB=-9.86  
Frame=32 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
FOverLA=3.17 FOverLB=3.17  
Frame=33 LoadCase=ST1D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=-12.16 FOverLB=-12.16  
Frame=33 LoadCase=ST3D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=-7.62 FOverLB=-7.62  
Frame=33 LoadCase=ST2D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=-17.1 FOverLB=-13.3  
Frame=33 LoadCase=ST4D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=-10.71 FOverLB=-8.33  
Frame=33 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=0.72 FOverLB=-2.14  
Frame=33 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=-9.86 FOverLB=-9.86  
Frame=33 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=3.17 FOverLB=3.17  
Frame=34 LoadCase=ST1D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=-12.16 FOverLB=-12.16  
Frame=34 LoadCase=ST3D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=-7.62 FOverLB=-7.62  
Frame=34 LoadCase=ST2D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=-13.3 FOverLB=-9.5  
Frame=34 LoadCase=ST4D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=-8.33 FOverLB=-5.95  
Frame=34 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=-2.14 FOverLB=-3.56  
Frame=34 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=-9.86 FOverLB=-9.86  
Frame=34 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=3.17 FOverLB=3.17  
Frame=35 LoadCase=ST1D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=-12.16 FOverLB=-12.16  
Frame=35 LoadCase=ST3D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=-7.62 FOverLB=-7.62  
Frame=35 LoadCase=ST2D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
FOverLA=-9.5 FOverLB=-5.7

Frame=35 LoadCase=ST4D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=-5.95 FOverLB=-3.57  
 Frame=35 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=-3.56 FOverLB=-4.99  
 Frame=35 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=-9.86 FOverLB=-9.86  
 Frame=35 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=3.17 FOverLB=3.17  
 Frame=36 LoadCase=ST1D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=-12.16 FOverLB=-12.16  
 Frame=36 LoadCase=ST3D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=-7.62 FOverLB=-7.62  
 Frame=36 LoadCase=ST2D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=-5.7 FOverLB=-1.9  
 Frame=36 LoadCase=ST4D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=-3.57 FOverLB=-1.19  
 Frame=36 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=4.99 FOverLB=-6.41  
 Frame=36 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=-9.86 FOverLB=-9.86  
 Frame=36 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.5  
 FOverLA=3.17 FOverLB=3.17  
 Frame=37 LoadCase=ST1D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=-12.16 FOverLB=-12.16  
 Frame=37 LoadCase=ST3D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=-7.62 FOverLB=-7.62  
 Frame=37 LoadCase=ST2D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=-1.9 FOverLB=-0.95  
 Frame=37 LoadCase=ST4D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=-1.19 FOverLB=-0.6  
 Frame=37 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=-6.41 FOverLB=-6.77  
 Frame=37 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=-9.86 FOverLB=-9.86  
 Frame=37 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=3.17 FOverLB=3.17  
 Frame=38 LoadCase=ST1D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=-12.16 FOverLB=-12.16  
 Frame=38 LoadCase=ST3D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=-7.62 FOverLB=-7.62  
 Frame=38 LoadCase=ST2D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=-0.95 FOverLB=0  
 Frame=38 LoadCase=ST4D CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=-0.6 FOverLB=0  
 Frame=38 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=-6.77 FOverLB=-7.12  
 Frame=38 LoadCase=SQMD CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=-9.86 FOverLB=-9.86  
 Frame=38 LoadCase=IS01 CoordSys=GLOBAL Type=Force Dir=X DistType=RelDist RelDistA=0 RelDistB=1 AbsDistA=0 AbsDistB=0.125  
 FOverLA=3.17 FOverLB=3.17

TABLE: "FRAME LOADS - TEMPERATURE"

Frame=15 LoadCase=TC01 Type=Temperature Temp=10 JtPattern=None  
 Frame=15 LoadCase=TC02 Type=Temperature Temp=-10 JtPattern=None  
 Frame=15 LoadCase=TV01 Type=Gradient2 TempGrad2=5 JtPattern=None  
 Frame=15 LoadCase=TV02 Type=Gradient2 TempGrad2=-5 JtPattern=None  
 Frame=16 LoadCase=TC01 Type=Temperature Temp=10 JtPattern=None  
 Frame=16 LoadCase=TC02 Type=Temperature Temp=-10 JtPattern=None  
 Frame=16 LoadCase=TV01 Type=Gradient2 TempGrad2=5 JtPattern=None  
 Frame=16 LoadCase=TV02 Type=Gradient2 TempGrad2=-5 JtPattern=None  
 Frame=17 LoadCase=TC01 Type=Temperature Temp=10 JtPattern=None  
 Frame=17 LoadCase=TC02 Type=Temperature Temp=-10 JtPattern=None  
 Frame=17 LoadCase=TV01 Type=Gradient2 TempGrad2=5 JtPattern=None  
 Frame=17 LoadCase=TV02 Type=Gradient2 TempGrad2=-5 JtPattern=None  
 Frame=18 LoadCase=TC01 Type=Temperature Temp=10 JtPattern=None  
 Frame=18 LoadCase=TC02 Type=Temperature Temp=-10 JtPattern=None



Frame=18 LoadCase=TV01 Type=Gradient2 TempGrad2=5 JtPattern=None  
 Frame=18 LoadCase=TV02 Type=Gradient2 TempGrad2=-5 JtPattern=None  
 Frame=19 LoadCase=TC01 Type=Temperature Temp=10 JtPattern=None  
 Frame=19 LoadCase=TC02 Type=Temperature Temp=-10 JtPattern=None  
 Frame=19 LoadCase=TV01 Type=Gradient2 TempGrad2=5 JtPattern=None  
 Frame=19 LoadCase=TV02 Type=Gradient2 TempGrad2=-5 JtPattern=None  
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 Frame=20 LoadCase=TC02 Type=Temperature Temp=-10 JtPattern=None  
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 Frame=20 LoadCase=TV02 Type=Gradient2 TempGrad2=-5 JtPattern=None  
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 Frame=21 LoadCase=TC02 Type=Temperature Temp=-10 JtPattern=None  
 Frame=21 LoadCase=TV01 Type=Gradient2 TempGrad2=5 JtPattern=None  
 Frame=21 LoadCase=TV02 Type=Gradient2 TempGrad2=-5 JtPattern=None  
 Frame=22 LoadCase=TC01 Type=Temperature Temp=10 JtPattern=None  
 Frame=22 LoadCase=TC02 Type=Temperature Temp=-10 JtPattern=None  
 Frame=22 LoadCase=TV01 Type=Gradient2 TempGrad2=5 JtPattern=None  
 Frame=22 LoadCase=TV02 Type=Gradient2 TempGrad2=-5 JtPattern=None

TABLE: "FRAME DESIGN PROCEDURES"

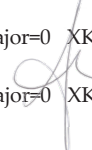
Frame=1 DesignProc="From Material"  
 Frame=2 DesignProc="From Material"  
 Frame=3 DesignProc="From Material"  
 Frame=4 DesignProc="From Material"  
 Frame=5 DesignProc="From Material"  
 Frame=6 DesignProc="From Material"  
 Frame=7 DesignProc="From Material"  
 Frame=8 DesignProc="From Material"  
 Frame=9 DesignProc="From Material"  
 Frame=10 DesignProc="From Material"  
 Frame=11 DesignProc="From Material"  
 Frame=12 DesignProc="From Material"  
 Frame=13 DesignProc="From Material"  
 Frame=14 DesignProc="From Material"  
 Frame=15 DesignProc="From Material"  
 Frame=16 DesignProc="From Material"  
 Frame=17 DesignProc="From Material"  
 Frame=18 DesignProc="From Material"  
 Frame=19 DesignProc="From Material"  
 Frame=20 DesignProc="From Material"  
 Frame=21 DesignProc="From Material"  
 Frame=22 DesignProc="From Material"  
 Frame=23 DesignProc="From Material"  
 Frame=24 DesignProc="From Material"  
 Frame=25 DesignProc="From Material"  
 Frame=26 DesignProc="From Material"  
 Frame=27 DesignProc="From Material"  
 Frame=28 DesignProc="From Material"  
 Frame=29 DesignProc="From Material"  
 Frame=30 DesignProc="From Material"  
 Frame=31 DesignProc="From Material"  
 Frame=32 DesignProc="From Material"  
 Frame=33 DesignProc="From Material"  
 Frame=34 DesignProc="From Material"  
 Frame=35 DesignProc="From Material"  
 Frame=36 DesignProc="From Material"  
 Frame=37 DesignProc="From Material"  
 Frame=38 DesignProc="From Material"

APPROVATO SDP


TABLE: "OVERWRITES - CONCRETE DESIGN - ACI 318-99"

Frame=1 DesignSect="Program Determined" FrameType="Program Determined" RLLF=0 XLMajor=0 XLMinor=0 XKMajor=0 XKMinor=0  
 CmMajor=0 CmMinor=0 DnsMajor=0 DnsMinor=0 DsMajor=0 DsMinor=0  
 Frame=2 DesignSect="Program Determined" FrameType="Program Determined" RLLF=0 XLMajor=0 XLMinor=0 XKMajor=0 XKMinor=0  
 CmMajor=0 CmMinor=0 DnsMajor=0 DnsMinor=0 DsMajor=0 DsMinor=0  
 Frame=3 DesignSect="Program Determined" FrameType="Program Determined" RLLF=0 XLMajor=0 XLMinor=0 XKMajor=0 XKMinor=0  
 CmMajor=0 CmMinor=0 DnsMajor=0 DnsMinor=0 DsMajor=0 DsMinor=0

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	Doc. N. 60236-00000-A00.doc	CODIFICA DOCUMENTO 04RCDII100000000000400A00	REV. 00	FOGLIO 171 di 310
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Frame=37 DesignSect="Program Determined" FrameType="Program Determined" RLLF=0 XLMajor=0 XLMinor=0 XKMajor=0 XKMinor=0 CmMajor=0 CmMinor=0 DnsMajor=0 DnsMinor=0 DsMajor=0 DsMinor=0

Frame=38 DesignSect="Program Determined" FrameType="Program Determined" RLLF=0 XLMajor=0 XLMinor=0 XKMajor=0 XKMinor=0 CmMajor=0 CmMinor=0 DnsMajor=0 DnsMinor=0 DsMajor=0 DsMinor=0

TABLE: "PREFERENCES - DIMENSIONAL"

MergeTol=0.001 FineGrid=0.25 Nudge=0.25 SelectTol=3 SnapTol=12 SLineThick=1 PLineThick=4 MaxFont=8 MinFont=8 AutoZoom=10 ShrinkFact=70 TextFileLen=240

TABLE: "PREFERENCES - STEEL DESIGN - AISC-ASD89"

THDesign=Envelopes FrameType="Moment Frame" PatLLF=0.75 SRatioLimit=0.95 MaxIter=1 LatFactor=1 CheckDefl=No DLRat=120 SDLAndLLRat=120 LLRat=360 TotalRat=240 NetRat=240

TABLE: "PREFERENCES - CONCRETE DESIGN - ACI 318-99"

THDesign=Envelopes NumCurves=24 NumPoints=11 MinEccen=Yes PatLLF=0.75 UFLimit=0.95 PhiB=0.9 PhiCTied=0.7 PhiCSpiral=0.75 PhiV=0.85

TABLE: "PREFERENCES - ALUMINUM DESIGN - AA-ASD 2000"

THDesign=Envelopes FrameType="Moment Frame" SRatioLimit=1 MaxIter=1 LatFact=1.3333333333333333 UseLatFact=No Bridge=No

TABLE: "PREFERENCES - COLD FORMED DESIGN - AISI-ASD96"

THDesign=Envelopes FrameType="Braced Frame" SRatioLimit=1 MaxIter=1 OmegaBS=1.67 OmegaBUS=1.67 OmegaBLTB=1.67 OmegaVS=1.67 OmegaVNS=1.5 OmegaT=1.67 OmegaC=1.8

TABLE: "OPTIONS - COLORS - DISPLAY"

DeviceType=Screen Points=Yellow LinesFrame=Yellow LinesFrmExt=Yellow LinesCable=Green LinesTendon=Green SpringLinks=Green Restraints=Green Releases=Green Axes=Cyan Text=Green ShadowLines=Gray8Dark \_

GuideLines=Gray8Dark Highlight=Red Selection=White AreaFillBot=Red AreaFillTop=16744703 AreaFillSd=Red AreaEdge=DarkRed SolidF1=Red SolidF2=Blue SolidF3=Green SolidF4=Yellow SolidF5=White SolidF6=Cyan \_

SolidEdge=DarkRed Floor=Gray4 Background=Black BGLowLeft=Black BGLowRight=Black BGUpRight=Black Darkness=0.5

DeviceType=Printer Points=Gray8Dark LinesFrame=Black LinesFrmExt=Gray4 LinesCable=Black LinesTendon=Black SpringLinks=Gray8Dark Restraints=Gray8Dark Releases=Gray4 Axes=Black Text=Black ShadowLines=Gray4 \_

GuideLines=Gray4 Highlight=Black Selection=Black AreaFillBot=Gray4 AreaFillTop=Gray8Dark AreaFillSd=Gray4 AreaEdge=Black SolidF1=Gray1Light SolidF2=Gray2 SolidF3=Gray3 SolidF4=Gray4 SolidF5=Gray5 \_

SolidF6=Gray6 SolidEdge=Black Floor=Gray4 Background=White BGLowLeft=White BGLowRight=White BGUpRight=White Darkness=0.5

DeviceType="Color Printer" Points=Black LinesFrame=3303023 LinesFrmExt=White LinesCable=Green LinesTendon=Green SpringLinks=Green Restraints=9408399 Releases=Green Axes=Cyan Text=Black ShadowLines=Gray8Dark \_

GuideLines=10461087 Highlight=Red Selection=10504778 AreaFillBot=16634568 AreaFillTop=14277119 AreaFillSd=16634568 AreaEdge=7303023 SolidF1=10122991 SolidF2=16756912 SolidF3=11599795 SolidF4=12713983 \_

SolidF5=White SolidF6=16777128 SolidEdge=7303023 Floor=10461087 Background=White BGLowLeft=White BGLowRight=14671839 BGUpRight=White Darkness=0.5

TABLE: "OPTIONS - COLORS - OUTPUT"

DeviceType=Screen Contour1=13107400 Contour2=6553828 Contour3=Red Contour4=16639 Contour5=Orange Contour6=43775 Contour7=54527 Contour8=Yellow Contour9=65408 Contour10=Green Contour11=8453888 Contour12=Cyan \_

Contour13=16755200 Contour14=16733440 Contour15=Blue Transpare=0.5 Ratio1=Cyan Ratio2=Green Ratio3=Yellow Ratio4=Orange Ratio5=Red RatioNotD=Gray4 RatioNotC=Red RatioVal1=0.5 RatioVal2=0.7 RatioVal3=0.9 \_

RatioVal4=1 DFillPos=Yellow DFillNeg=Red DFillRPos=Blue DFillRNeg=Cyan

DeviceType=Printer Contour1=Black Contour2=3158064 Contour3=4210752 Contour4=5263440 Contour5=6316128 Contour6=7368816 Contour7=Gray8Dark Contour8=Gray7 Contour9=Gray6 Contour10=Gray5 Contour11=Gray4 \_

Contour12=Gray3 Contour13=Gray2 Contour14=Gray1Light Contour15=White Transpare=0 Ratio1=Gray2 Ratio2=Gray4 Ratio3=Gray8Dark Ratio4=4210752 Ratio5=Black RatioNotD=Gray4 RatioNotC=Black RatioVal1=0.5 \_

RatioVal2=0.7 RatioVal3=0.9 RatioVal4=1 DFillPos=Gray8Dark DFillNeg=Gray8Dark DFillRPos=4210752 DFillRNeg=4210752

DeviceType="Color Printer" Contour1=13107400 Contour2=6553828 Contour3=Red Contour4=16639 Contour5=Orange Contour6=43775 Contour7=54527 Contour8=Yellow Contour9=65408 Contour10=Green Contour11=8453888 \_

Contour12=Cyan Contour13=16755200 Contour14=16733440 Contour15=Blue Transpare=0.5 Ratio1=Cyan Ratio2=Green Ratio3=Yellow Ratio4=Orange Ratio5=Red RatioNotD=Gray4 RatioNotC=Red RatioVal1=0.5 RatioVal2=0.7 \_

RatioVal3=0.9 RatioVal4=1 DFillPos=Red DFillNeg=Red DFillRPos=Blue DFillRNeg=Blue

TABLE: "DATABASE FORMAT TYPES"

UnitsCurr=Yes OverrideE=No

TABLE: "PROJECT INFORMATION"

Item="Company Name"

Item="Client Name"

Item="Project Name"

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Item="Project Number"  
 Item="Model Name"  
 Item="Model Description"  
 Item="Revision Number"  
 Item="Frame Type"  
 Item=Engineer  
 Item=Checker  
 Item=Supervisor  
 Item="Issue Code"  
 Item="Design Code"

TABLE: "MATERIAL LIST 1 - BY OBJECT TYPE"

ObjectType=Frame Material=C28/35 TotalWeight=66.25 NumPieces=14  
 ObjectType=Frame Material=C32/40 TotalWeight=111.875 NumPieces=24

TABLE: "MATERIAL LIST 2 - BY SECTION PROPERTY"

Section=PIDRITTI ObjectType=Frame NumPieces=16 TotalLength=5 TotalWeight=56.25  
 Section=SOLETTA-INF ObjectType=Frame NumPieces=14 TotalLength=5.3 TotalWeight=66.25  
 Section=SOLETTA-SUP ObjectType=Frame NumPieces=8 TotalLength=4.45 TotalWeight=55.625

END TABLE DATA

## 11.2 Tabulati di output

File D:\LAVORI\_epsilon\BDY01E\_lavoro\_epsilon\relazioni\COMPLETE\allegati\tombino 4x2\_R=135\_output.s2k was saved on 2/24/10 at 9.15.26

TABLE: "PROGRAM CONTROL"

ProgramName=SAP2000 Version=14.0.0 ProgLevel=Advanced LicenseOS=Yes LicenseSC= Yes LicenseBR= Yes LicenseHT= Yes CurrUnits="KN, m, C"

TABLE: "JOINT DISPLACEMENTS"

Joint=1	OutputCase=PPST	CaseType=LinStatic	U1=4.25379923341109E-07	U2=0	U3=-3.37166827163038E-02	R1=0	R2=-7.73192172210399E-05	R3=0
Joint=1	OutputCase=PPNS	CaseType=LinStatic	U1=1.37302540276312E-07	U2=0	U3=-2.86531685575729E-02	R1=0	R2=-1.31281766964642E-04	R3=0
Joint=1	OutputCase=ST1D	CaseType=LinStatic	U1=-3.03989640828986E-02	U2=0	U3=-7.70861521790855E-03	R1=0	R2=-2.92707368865328E-03	R3=0
Joint=1	OutputCase=ST2D	CaseType=LinStatic	U1=-2.37489126414328E-02	U2=0	U3=-4.0129299587028E-03	R1=0	R2=-1.52311249263337E-03	R3=0
Joint=1	OutputCase=ST3D	CaseType=LinStatic	U1=-1.90493508480006E-02	U2=0	U3=-4.83056315464335E-03	R1=0	R2=-1.83423532134358E-03	R3=0
Joint=1	OutputCase=ST4D	CaseType=LinStatic	U1=-1.48755689275179E-02	U2=0	U3=-2.51367853350313E-03	R1=0	R2=-9.54069866928995E-04	R3=0
Joint=1	OutputCase=ST1S	CaseType=LinStatic	U1=3.04010359362724E-02	U2=0	U3=7.72598600763594E-03	R1=0	R2=2.94471376463717E-03	R3=0
Joint=1	OutputCase=ST2S	CaseType=LinStatic	U1=2.37510873732554E-02	U2=0	U3=4.02741316312785E-03	R1=0	R2=1.53782021925708E-03	R3=0
Joint=1	OutputCase=ST3S	CaseType=LinStatic	U1=1.90506491640128E-02	U2=0	U3=4.84144846860081E-03	R1=0	R2=1.84528938211639E-03	R3=0
Joint=1	OutputCase=ST4S	CaseType=LinStatic	U1=1.41331312601853E-02	U2=0	U3=2.51643708283404E-03	R1=0	R2=9.60864442254423E-04	R3=0
Joint=1	OutputCase=QM01	CaseType=LinStatic	U1=-7.21640408884985E-07	U2=0	U3=-3.71607186421333E-02	R1=0	R2=-1.6316325046168E-04	R3=0
Joint=1	OutputCase=QM02	CaseType=LinStatic	U1=-1.47608265452547E-07	U2=0	U3=-7.60105608589089E-03	R1=0	R2=-3.33743012307944E-05	R3=0
Joint=1	OutputCase=SQMD	CaseType=LinStatic	U1=-3.35583355941029E-02	U2=0	U3=-9.26257844380633E-03	R1=0	R2=-3.51738183920664E-03	R3=0
Joint=1	OutputCase=SQMS	CaseType=LinStatic	U1=3.35604144271687E-02	U2=0	U3=9.28141240682066E-03	R1=0	R2=3.53650777094978E-03	R3=0
Joint=1	OutputCase=FA01	CaseType=LinStatic	U1=1.73550000057888E-02	U2=0	U3=8.80816835826766E-03	R1=0	R2=3.34619285717644E-03	R3=0
Joint=1	OutputCase=IS01	CaseType=LinStatic	U1=6.52450000214736E-02	U2=0	U3=2.90930606291528E-02	R1=0	R2=1.10545005772452E-02	R3=0
Joint=1	OutputCase=SSTS	CaseType=LinStatic	U1=6.10770812436789E-02	U2=0	U3=1.55218616913278E-02	R1=0	R2=5.91606556497419E-03	R3=0
Joint=1	OutputCase=TC01	CaseType=LinStatic	U1=-1.15862903363431E-06	U2=0	U3=-6.7641607807979E-05	R1=0	R2=-6.86902046531436E-05	R3=0
Joint=1	OutputCase=TC02	CaseType=LinStatic	U1=1.15862903363431E-06	U2=0	U3=6.7641607807979E-05	R1=0	R2=6.86902046531436E-05	R3=0
Joint=1	OutputCase=TV01	CaseType=LinStatic	U1=7.29848156207051E-07	U2=0	U3=1.13708100233058E-05	R1=0	R2=1.15470831181441E-05	R3=0
Joint=1	OutputCase=TV02	CaseType=LinStatic	U1=-7.29848156207051E-07	U2=0	U3=-1.13708100233058E-05	R1=0	R2=-1.15470831181441E-05	R3=0
Joint=1	OutputCase=PPAQ	CaseType=LinStatic	U1=-2.14882820849961E-07	U2=0	U3=-7.5324898883944E-03	R1=0	R2=1.1017378969941E-05	R3=0
Joint=2	OutputCase=PPST	CaseType=LinStatic	U1=4.25382533948564E-07	U2=0	U3=-3.37012830851831E-02	R1=0	R2=-7.74687666454323E-05	R3=0
Joint=2	OutputCase=PPNS	CaseType=LinStatic	U1=1.3730338291842E-07	U2=0	U3=-2.86267451666511E-02	R1=0	R2=-1.31148143716741E-04	R3=0
Joint=2	OutputCase=ST1D	CaseType=LinStatic	U1=-3.03991506449761E-02	U2=0	U3=-7.1232247022289E-03	R1=0	R2=-2.9271191049989E-03	R3=0
Joint=2	OutputCase=ST2D	CaseType=LinStatic	U1=-2.37490583913495E-02	U2=0	U3=-3.7083200696256E-03	R1=0	R2=-1.52313613535114E-03	R3=0
Joint=2	OutputCase=ST3D	CaseType=LinStatic	U1=-1.90494677561446E-02	U2=0	U3=-4.46373126899541E-03	R1=0	R2=-1.83426378125753E-03	R3=0
Joint=2	OutputCase=ST4D	CaseType=LinStatic	U1=-1.48756602206632E-02	U2=0	U3=-2.32287245861114E-03	R1=0	R2=-9.54084676604902E-04	R3=0
Joint=2	OutputCase=ST1S	CaseType=LinStatic	U1=3.04012225110652E-02	U2=0	U3=7.13706753134209E-03	R1=0	R2=5.91606556497419E-03	R3=0
Joint=2	OutputCase=ST2S	CaseType=LinStatic	U1=2.37512331365186E-02	U2=0	U3=3.71986177423511E-03	R1=0	R2=1.53782021925708E-03	R3=0
Joint=2	OutputCase=ST3S	CaseType=LinStatic	U1=1.90507660801247E-02	U2=0	U3=4.4724058050022E-03	R1=0	R2=1.84531790616263E-03	R3=0
Joint=2	OutputCase=ST4S	CaseType=LinStatic	U1=1.41332179969018E-02	U2=0	U3=2.3242721015449E-03	R1=0	R2=9.60879268182695E-04	R3=0
Joint=2	OutputCase=QM01	CaseType=LinStatic	U1=-7.21644837678465E-07	U2=0	U3=-3.71282027586452E-02	R1=0	R2=-1.6338218784457E-04	R3=0
Joint=2	OutputCase=QM02	CaseType=LinStatic	U1=-1.47609171342122E-07	U2=0	U3=-7.59440510972287E-03	R1=0	R2=-3.34190838772947E-05	R3=0
Joint=2	OutputCase=SQMD	CaseType=LinStatic	U1=-3.35585415456213E-02	U2=0	U3=-8.55913118088737E-03	R1=0	R2=-3.51743641093607E-03	R3=0
Joint=2	OutputCase=SQMS	CaseType=LinStatic	U1=3.35606203914451E-02	U2=0	U3=8.57414001673325E-03	R1=0	R2=3.53656245364205E-03	R3=0



Joint=2 OutputCase=FA01 CaseType=LinStatic U1=1.73551065154991E-02 U2=0 U3=8.13895746390499E-03 R1=0 R2=3.34624475168761E-03 R3=0  
Joint=2 OutputCase=IS01 CaseType=LinStatic U1=6.52454004378405E-02 U2=0 U3=2.68822519300708E-02 R1=0 R2=1.10546719829335E-02 R3=0  
Joint=2 OutputCase=SSTS CaseType=LinStatic U1=6.10774560810298E-02 U2=0 U3=1.43386973512078E-02 R1=0 R2=5.91615701411458E-03 R3=0  
Joint=2 OutputCase=TC01 CaseType=LinStatic U1=-1.15863614427923E-06 U2=0 U3=-5.39037794211637E-05 R1=0 R2=-6.86906031727936E-05 R3=0  
Joint=2 OutputCase=TC02 CaseType=LinStatic U1=1.15863614427923E-06 U2=0 U3=5.39037794211637E-05 R1=0 R2=6.86906031727936E-05 R3=0  
Joint=2 OutputCase=TV01 CaseType=LinStatic U1=7.29852635372458E-07 U2=0 U3=9.0614291290956E-06 R1=0 R2=1.1547150110804E-05 R3=0  
Joint=2 OutputCase=TV02 CaseType=LinStatic U1=-7.29852635372458E-07 U2=0 U3=-9.0614291290956E-06 R1=0 R2=-1.1547150110804E-05 R3=0  
Joint=2 OutputCase=PPAQ CaseType=LinStatic U1=-2.14884139611528E-07 U2=0 U3=-7.53471703326249E-03 R1=0 R2=1.09730002904329E-05 R3=0  
Joint=3 OutputCase=PPST CaseType=LinStatic U1=4.25384002415257E-07 U2=0 U3=-3.36926639524694E-02 R1=0 R2=-7.77150666005046E-05 R3=0  
Joint=3 OutputCase=PPNS CaseType=LinStatic U1=1.37303856904606E-07 U2=0 U3=-0.028611854359176 R1=0 R2=-1.3067741341132E-04 R3=0  
Joint=3 OutputCase=ST1D CaseType=LinStatic U1=-3.03992555861448E-02 U2=0 U3=-6.79395707126852E-03 R1=0 R2=-2.92720531646558E-03 R3=0  
Joint=3 OutputCase=ST2D CaseType=LinStatic U1=-2.37491403756776E-02 U2=0 U3=-3.5369845735399E-03 R1=0 R2=-1.52318101546405E-03 R3=0  
Joint=3 OutputCase=ST3D CaseType=LinStatic U1=-1.90495335169756E-02 U2=0 U3=-4.25739744104162E-03 R1=0 R2=-1.83431780521938E-03 R3=0  
Joint=3 OutputCase=ST4D CaseType=LinStatic U1=-1.48757115730574E-02 U2=0 U3=-2.21554878111341E-03 R1=0 R2=-9.54112789275032E-04 R3=0  
Joint=3 OutputCase=ST1S CaseType=LinStatic U1=3.04013274593861E-02 U2=0 U3=6.80581544866639E-03 R1=0 R2=2.94484568262921E-03 R3=0  
Joint=3 OutputCase=ST2S CaseType=LinStatic U1=2.37513151283542E-02 U2=0 U3=3.54687170628965E-03 R1=0 R2=1.53788898403027E-03 R3=0  
Joint=3 OutputCase=ST3S CaseType=LinStatic U1=1.90508318454377E-02 U2=0 U3=4.26482843082548E-03 R1=0 R2=1.84537204783179E-03 R3=0  
Joint=3 OutputCase=ST4S CaseType=LinStatic U1=1.41332667863048E-02 U2=0 U3=2.21618404095423E-03 R1=0 R2=9.60907408355874E-04 R3=0  
Joint=3 OutputCase=QM01 CaseType=LinStatic U1=-7.21647328874798E-07 U2=0 U3=-3.71099910003188E-02 R1=0 R2=-1.63805910153216E-04 R3=0  
Joint=3 OutputCase=QM02 CaseType=LinStatic U1=-1.47609680905009E-07 U2=0 U3=-7.59067997733792E-03 R1=0 R2=-3.35057543495177E-05 R3=0  
Joint=3 OutputCase=SQMD CaseType=LinStatic U1=-3.35586573933503E-02 U2=0 U3=-8.16345955935759E-03 R1=0 R2=-3.51754000144451E-03 R3=0  
Joint=3 OutputCase=SQMS CaseType=LinStatic U1=3.35607362463506E-02 U2=0 U3=8.17631678950237E-03 R1=0 R2=3.53666624780976E-03 R3=0  
Joint=3 OutputCase=FA01 CaseType=LinStatic U1=1.73551664272111E-02 U2=0 U3=7.76254294211281E-03 R1=0 R2=3.34634325938243E-03 R3=0  
Joint=3 OutputCase=IS01 CaseType=LinStatic U1=6.52456256720468E-02 U2=0 U3=2.56387268855131E-02 R1=0 R2=1.10549973490261E-02 R3=0  
Joint=3 OutputCase=SSTS CaseType=LinStatic U1=6.10776669270397E-02 U2=0 U3=1.36731966620822E-02 R1=0 R2=5.91633059429536E-03 R3=0  
Joint=3 OutputCase=TC01 CaseType=LinStatic U1=-1.158640144017E-06 U2=0 U3=-4.61763527040353E-05 R1=0 R2=-6.86913346089052E-05 R3=0  
Joint=3 OutputCase=TC02 CaseType=LinStatic U1=1.158640144017E-06 U2=0 U3=4.61763527040353E-05 R1=0 R2=6.86913346089052E-05 R3=0  
Joint=3 OutputCase=TV01 CaseType=LinStatic U1=7.29855154902999E-07 U2=0 U3=7.76241948073862E-06 R1=0 R2=1.15472730679799E-05 R3=0  
Joint=3 OutputCase=TV02 CaseType=LinStatic U1=-7.29855154902999E-07 U2=0 U3=-7.76241948073862E-06 R1=0 R2=-1.15472730679799E-05 R3=0  
Joint=3 OutputCase=PPAQ CaseType=LinStatic U1=-2.1488481414909E-07 U2=0 U3=-7.53598572543795E-03 R1=0 R2=1.08870859542759E-05 R3=0  
Joint=4 OutputCase=PPST CaseType=LinStatic U1=4.25385470881939E-07 U2=0 U3=-3.36840514551169E-02 R1=0 R2=-7.82084207278265E-05 R3=0  
Joint=4 OutputCase=PPNS CaseType=LinStatic U1=1.37304330890802E-07 U2=0 U3=-2.85970951697225E-02 R1=0 R2=-1.29966120601266E-04 R3=0  
Joint=4 OutputCase=ST1D CaseType=LinStatic U1=-3.03993605273134E-02 U2=0 U3=-6.46469045437825E-03 R1=0 R2=-2.92737601216296E-03 R3=0  
Joint=4 OutputCase=ST2D CaseType=LinStatic U1=-2.37492223600058E-02 U2=0 U3=-3.3656496057123E-03 R1=0 R2=-1.5232698773416E-03 R3=0  
Joint=4 OutputCase=ST3D CaseType=LinStatic U1=-1.90495992778066E-02 U2=0 U3=-4.05106424854952E-03 R1=0 R2=-1.83442477077975E-03 R3=0  
Joint=4 OutputCase=ST4D CaseType=LinStatic U1=-1.48757629254516E-02 U2=0 U3=-2.10822543451376E-03 R1=0 R2=-9.54168451894477E-04 R3=0  
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Joint=4 OutputCase=ST3S CaseType=LinStatic U1=1.90508976107506E-02 U2=0 U3=4.05725168978163E-03 R1=0 R2=1.84547923780047E-03 R3=0  
Joint=4 OutputCase=ST4S CaseType=LinStatic U1=1.41333155757079E-02 U2=0 U3=2.1080963085015E-03 R1=0 R2=9.6096311824889E-04 R3=0  
Joint=4 OutputCase=QM01 CaseType=LinStatic U1=-7.216498820071132E-07 U2=0 U3=-3.70917917095744E-02 R1=0 R2=-1.64662293884062E-04 R3=0  
Joint=4 OutputCase=QM02 CaseType=LinStatic U1=-1.47610190467893E-07 U2=0 U3=-7.58695739514021E-03 R1=0 R2=-3.36809237490083E-05 R3=0  
Joint=4 OutputCase=SQMD CaseType=LinStatic U1=-3.35587732410794E-02 U2=0 U3=-7.76778915618866E-03 R1=0 R2=-3.51774510673155E-03 R3=0  
Joint=4 OutputCase=SQMS CaseType=LinStatic U1=0.033560852101256 U2=0 U3=7.77849477660294E-03 R1=0 R2=3.53687174137203E-03 R3=0  
Joint=4 OutputCase=FA01 CaseType=LinStatic U1=1.73552263389232E-02 U2=0 U3=7.38612957816623E-03 R1=0 R2=3.34633829917986E-03 R3=0  
Joint=4 OutputCase=IS01 CaseType=LinStatic U1=6.52458509062532E-02 U2=0 U3=2.43952056641108E-02 R1=0 R2=1.10556415532441E-02 R3=0  
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Joint=4 OutputCase=TV01 CaseType=LinStatic U1=7.2985767443354E-07 U2=0 U3=6.46340739968699E-06 R1=0 R2=1.15475074851269E-05 R3=0  
Joint=4 OutputCase=TV02 CaseType=LinStatic U1=-7.2985767443354E-07 U2=0 U3=-6.46340739968699E-06 R1=0 R2=-1.15475074851269E-05 R3=0  
Joint=4 OutputCase=PPAQ CaseType=LinStatic U1=-2.14885623218289E-07 U2=0 U3=-7.5372569687556E-03 R1=0 R2=1.07133907403316E-05 R3=0  
Joint=5 OutputCase=PPST CaseType=LinStatic U1=4.03877216741251E-07 U2=0 U3=-3.36739967736457E-02 R1=0 R2=-8.40897773200181E-05 R3=0  
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Joint=5 OutputCase=ST2D CaseType=LinStatic U1=-2.37492773398981E-02 U2=0 U3=-3.19438094475823E-03 R1=0 R2=-1.52159561809688E-03 R3=0  
Joint=5 OutputCase=ST3D CaseType=LinStatic U1=-1.90496321008305E-02 U2=0 U3=-3.84480177108769E-03 R1=0 R2=-1.83246154771329E-03 R3=0  
Joint=5 OutputCase=ST4D CaseType=LinStatic U1=-1.48757973623824E-02 U2=0 U3=-2.00094362059379E-03 R1=0 R2=-9.53119715539565E-04 R3=0  
Joint=5 OutputCase=ST1S CaseType=LinStatic U1=3.04013800287084E-02 U2=0 U3=6.14347649980976E-03 R1=0 R2=2.94098877741421E-03 R3=0  
Joint=5 OutputCase=ST2S CaseType=LinStatic U1=2.37513421402975E-02 U2=0 U3=3.20100090671814E-03 R1=0 R2=1.53557612227041E-03 R3=0  
Joint=5 OutputCase=ST3S CaseType=LinStatic U1=1.90508647877268E-02 U2=0 U3=3.84977721451894E-03 R1=0 R2=1.845295513847831E-03 R3=0  
Joint=5 OutputCase=ST4S CaseType=LinStatic U1=1.41332836578632E-02 U2=0 U3=2.00007615358762E-03 R1=0 R2=9.5451571780659E-04 R3=0  
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Joint=5 OutputCase=SQMD CaseType=LinStatic U1=-3.35588257965333E-02 U2=0 U3=-7.3722515152242E-03 R1=0 R2=-3.51399687811172E-03 R3=0  
Joint=5 OutputCase=SQMS CaseType=LinStatic U1=3.35607995458021E-02 U2=0 U3=7.38086011557605E-03 R1=0 R2=3.53215307472014E-03 R3=0

Joint=5 OutputCase=FA01 CaseType=LinStatic U1=1.73552263389232E-02 U2=0 U3=7.00980623869984E-03 R1=0 R2=3.3432507478301E-03 R3=0  
Joint=5 OutputCase=IS01 CaseType=LinStatic U1=6.52458509062532E-02 U2=0 U3=2.31520126280626E-02 R1=0 R2=1.10444179031009E-02 R3=0  
Joint=5 OutputCase=SSTS CaseType=LinStatic U1=0.061077772541229 U2=0 U3=1.23425272113777E-02 R1=0 R2=5.90858189409778E-03 R3=0  
Joint=5 OutputCase=TC01 CaseType=LinStatic U1=-1.10006101331212E-06 U2=0 U3=-3.09175274666225E-05 R1=0 R2=-6.5207430283903E-05 R3=0  
Joint=5 OutputCase=TC02 CaseType=LinStatic U1=1.10006101331212E-06 U2=0 U3=3.09175274666225E-05 R1=0 R2=6.5207430283903E-05 R3=0  
Joint=5 OutputCase=TV01 CaseType=LinStatic U1=6.92954758306763E-07 U2=0 U3=5.19735326509261E-06 R1=0 R2=1.09616155783787E-05 R3=0  
Joint=5 OutputCase=TV02 CaseType=LinStatic U1=-6.92954758306763E-07 U2=0 U3=-5.19735326509261E-06 R1=0 R2=-1.09616155783787E-05 R3=0  
Joint=5 OutputCase=PPAQ CaseType=LinStatic U1=-2.04020619789912E-07 U2=0 U3=-7.53858259292097E-03 R1=0 R2=1.15488419474338E-05 R3=0  
Joint=6 OutputCase=PPST CaseType=LinStatic U1=3.82368962600495E-07 U2=0 U3=-3.36634220557537E-02 R1=0 R2=-8.83103732973109E-05 R3=0  
Joint=6 OutputCase=PPNS CaseType=LinStatic U1=1.23419623266804E-07 U2=0 U3=-2.85639475515693E-02 R1=0 R2=-1.41942953179007E-04 R3=0  
Joint=6 OutputCase=ST1D CaseType=LinStatic U1=-3.03994652853109E-02 U2=0 U3=-5.80674863014526E-03 R1=0 R2=-2.92112269574867E-03 R3=0  
Joint=6 OutputCase=ST2D CaseType=LinStatic U1=-2.37493323197904E-02 U2=0 U3=-3.02330701188232E-03 R1=0 R2=-1.51993731374299E-03 R3=0  
Joint=6 OutputCase=ST3D CaseType=LinStatic U1=-1.90496649238543E-02 U2=0 U3=-3.63876846724563E-03 R1=0 R2=-1.83050616296092E-03 R3=0  
Joint=6 OutputCase=ST4D CaseType=LinStatic U1=-1.48758317993132E-02 U2=0 U3=-1.89378378220198E-03 R1=0 R2=-9.52080971428813E-04 R3=0  
Joint=6 OutputCase=ST1S CaseType=LinStatic U1=3.04013276497097E-02 U2=0 U3=5.81285503523339E-03 R1=0 R2=2.9369735799849E-03 R3=0  
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Joint=6 OutputCase=ST3S CaseType=LinStatic U1=1.90508319647029E-02 U2=0 U3=3.64259501385513E-03 R1=0 R2=1.84043903614185E-03 R3=0  
Joint=6 OutputCase=ST4S CaseType=LinStatic U1=1.41332517400185E-02 U2=0 U3=1.89223001448327E-03 R1=0 R2=9.57950442121256E-04 R3=0  
Joint=6 OutputCase=QM01 CaseType=LinStatic U1=-6.48673995563692E-07 U2=0 U3=-3.70496323031908E-02 R1=0 R2=-1.80595451048319E-04 R3=0  
Joint=6 OutputCase=QM02 CaseType=LinStatic U1=-1.32683317273181E-07 U2=0 U3=-7.57833388019811E-03 R1=0 R2=-3.69399786235157E-05 R3=0  
Joint=6 OutputCase=SQMD CaseType=LinStatic U1=-3.35588783519872E-02 U2=0 U3=-6.97715168506534E-03 R1=0 R2=-3.51026014078111E-03 R3=0  
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Joint=6 OutputCase=FA01 CaseType=LinStatic U1=1.73552263389232E-02 U2=0 U3=6.63387023163988E-03 R1=0 R2=3.33993605970503E-03 R3=0  
Joint=6 OutputCase=IS01 CaseType=LinStatic U1=6.52458509062532E-02 U2=0 U3=2.19101389275662E-02 R1=0 R2=1.10331236051712E-02 R3=0  
Joint=6 OutputCase=SSTS CaseType=LinStatic U1=6.10776673094084E-02 U2=0 U3=1.16782934630552E-02 R1=0 R2=5.90051517755191E-03 R3=0  
Joint=6 OutputCase=TC01 CaseType=LinStatic U1=-1.04147788286948E-06 U2=0 U3=-2.37782544488798E-05 R1=0 R2=-6.17231174693892E-05 R3=0  
Joint=6 OutputCase=TC02 CaseType=LinStatic U1=1.04147788286948E-06 U2=0 U3=2.37782544488798E-05 R1=0 R2=6.17231174693892E-05 R3=0  
Joint=6 OutputCase=TV01 CaseType=LinStatic U1=6.56051842179985E-07 U2=0 U3=3.99721447739904E-06 R1=0 R2=1.0375889420146E-05 R3=0  
Joint=6 OutputCase=TV02 CaseType=LinStatic U1=-6.56051842179985E-07 U2=0 U3=-3.99721447739904E-06 R1=0 R2=-1.0375889420146E-05 R3=0  
Joint=6 OutputCase=PPAQ CaseType=LinStatic U1=-1.93155616361548E-07 U2=0 U3=-7.54001087120441E-03 R1=0 R2=1.22332845612035E-05 R3=0  
Joint=7 OutputCase=PPST CaseType=LinStatic U1=1.91184481349332E-07 U2=0 U3=-3.35683540793533E-02 R1=0 R2=-7.51560052060785E-05 R3=0  
Joint=7 OutputCase=PPNS CaseType=LinStatic U1=6.17098116045355E-08 U2=0 U3=-2.84185985341675E-02 R1=0 R2=-1.12783538994014E-04 R3=0  
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Joint=7 OutputCase=ST2D CaseType=LinStatic U1=-2.37498210299443E-02 U2=0 U3=-1.50997024023398E-03 R1=0 R2=-1.50866950189853E-03 R3=0  
Joint=7 OutputCase=ST3D CaseType=LinStatic U1=-1.90499566840666E-02 U2=0 U3=-1.81614754605483E-03 R1=0 R2=-1.81680510933905E-03 R3=0  
Joint=7 OutputCase=ST4D CaseType=LinStatic U1=-1.48761379053647E-02 U2=0 U3=-9.45837334862091E-04 R1=0 R2=-9.45022873847018E-04 R3=0  
Joint=7 OutputCase=ST1S CaseType=LinStatic U1=3.04008620586101E-02 U2=0 U3=2.89243764646015E-03 R1=0 R2=2.90717257567458E-03 R3=0  
Joint=7 OutputCase=ST2S CaseType=LinStatic U1=2.37507984502516E-02 U2=0 U3=1.50515809884209E-03 R1=0 R2=1.51526796369642E-03 R3=0  
Joint=7 OutputCase=ST3S CaseType=LinStatic U1=1.90505402044908E-02 U2=0 U3=1.81253082779822E-03 R1=0 R2=1.82176439363818E-03 R3=0  
Joint=7 OutputCase=ST4S CaseType=LinStatic U1=1.41329680258438E-02 U2=0 U3=9.40469546657472E-04 R1=0 R2=9.46782135464385E-04 R3=0  
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Joint=7 OutputCase=QM02 CaseType=LinStatic U1=6.634165867300488E-08 U2=0 U3=-7.54030962585525E-03 R1=0 R2=-2.95641208709278E-05 R3=0  
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Joint=7 OutputCase=TC01 CaseType=LinStatic U1=-5.20738945601487E-07 U2=0 U3=2.24743759151459E-05 R1=0 R2=-3.08171142217471E-05 R3=0  
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Joint=7 OutputCase=TV01 CaseType=LinStatic U1=3.28025921053072E-07 U2=0 U3=3.77802756675164E-06 R1=0 R2=5.18047341927415E-06 R3=0  
Joint=7 OutputCase=TV02 CaseType=LinStatic U1=-3.28025921053072E-07 U2=0 U3=-3.77802756675164E-06 R1=0 R2=-5.18047341927415E-06 R3=0  
Joint=7 OutputCase=PPAQ CaseType=LinStatic U1=-9.65778081094208E-08 U2=0 U3=7.54030962585525E-03 R1=0 R2=9.717576320893788E-06 R3=0  
Joint=8 OutputCase=PPST CaseType=LinStatic U1=9.81690804137441E-17 U2=0 U3=-3.35263370611775E-02 R1=0 R2=-3.84176763828281E-13 R3=0  
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Joint=8 OutputCase=ST1D CaseType=LinStatic U1=-3.04003964675107E-02 U2=0 U3=-4.86326093300437E-06 R1=0 R2=-2.89318318693168E-03 R3=0  
Joint=8 OutputCase=ST2D CaseType=LinStatic U1=-2.37503097400982E-02 U2=0 U3=-4.05483014458775E-06 R1=0 R2=-1.50636971165098E-03 R3=0  
Joint=8 OutputCase=ST3D CaseType=LinStatic U1=-1.90502484442789E-02 U2=0 U3=-3.04753686755653E-06 R1=0 R2=-1.81299801681081E-03 R3=0  
Joint=8 OutputCase=ST4D CaseType=LinStatic U1=-1.48764440114163E-02 U2=0 U3=-2.53966046997055E-06 R1=0 R2=-9.43582154568205E-04 R3=0  
Joint=8 OutputCase=ST1S CaseType=LinStatic U1=3.04003964675107E-02 U2=0 U3=-4.86326077019333E-06 R1=0 R2=2.89318318693182E-03 R3=0  
Joint=8 OutputCase=ST2S CaseType=LinStatic U1=2.37503097400979E-02 U2=0 U3=-4.05483005986965E-06 R1=0 R2=1.50636971165098E-03 R3=0  
Joint=8 OutputCase=ST3S CaseType=LinStatic U1=1.90502484442788E-02 U2=0 U3=3.04753676553138E-06 R1=0 R2=1.81299801681081E-03 R3=0  
Joint=8 OutputCase=ST4S CaseType=LinStatic U1=0.014132684311669 U2=0 U3=-2.53145829833315E-06 R1=0 R2=9.41225712492677E-04 R3=0  
Joint=8 OutputCase=QM01 CaseType=LinStatic U1=5.80794080668921E-17 U2=0 U3=-3.67837024356741E-02 R1=0 R2=-4.23178853070638E-13 R3=0  
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Joint=8 OutputCase=SQMD CaseType=LinStatic U1=-3.35598126711682E-02 U2=0 U3=-5.27290227702644E-06 R1=0 R2=-3.47632226530958E-03 R3=0  
Joint=8 OutputCase=SQMS CaseType=LinStatic U1=0.033559812671168 U2=0 U3=-5.2729020813776E-06 R1=0 R2=3.47632226530973E-03 R3=0



Joint=8 OutputCase=FA01 CaseType=LinStatic U1=1.73552263389234E-02 U2=0 U3=9.30332471216905E-14 R1=0 R2=3.30554504367628E-03 R3=0  
Joint=8 OutputCase=IS01 CaseType=LinStatic U1=6.52458509062539E-02 U2=0 U3=3.07230694877869E-13 R1=0 R2=1.09165421578805E-02 R3=0  
Joint=8 OutputCase=SSTS CaseType=LinStatic U1=6.10757965214869E-02 U2=0 U3=-9.77051485326688E-06 R1=0 R2=5.81253826124542E-03 R3=0  
Joint=8 OutputCase=TC01 CaseType=LinStatic U1=-8.33349828793589E-15 U2=0 U3=3.78749369872369E-05 R1=0 R2=-2.02298572858639E-15 R3=0  
Joint=8 OutputCase=TC02 CaseType=LinStatic U1=8.33349828793589E-15 U2=0 U3=-3.78749369872369E-05 R1=0 R2=2.02298572858639E-15 R3=0  
Joint=8 OutputCase=TV01 CaseType=LinStatic U1=-7.38412089076369E-17 U2=0 U3=-6.36692011190753E-06 R1=0 R2=8.16766342466536E-17 R3=0  
Joint=8 OutputCase=TV02 CaseType=LinStatic U1=7.38412089076369E-17 U2=0 U3=6.36692011190753E-06 R1=0 R2=-8.16766342466536E-17 R3=0  
Joint=8 OutputCase=PPAQ CaseType=LinStatic U1=1.42706059545485E-16 U2=0 U3=-7.55790962536449E-03 R1=0 R2=-8.59366159894885E-14 R3=0  
Joint=9 OutputCase=PPST CaseType=LinStatic U1=-1.91184481152994E-07 U2=0 U3=-3.35683540785848E-02 R1=0 R2=7.51560044371164E-05 R3=0  
Joint=9 OutputCase=PPNS CaseType=LinStatic U1=-6.17098117200008E-08 U2=0 U3=-2.84185985335149E-02 R1=0 R2=1.12783538341043E-04 R3=0  
Joint=9 OutputCase=ST1D CaseType=LinStatic U1=-3.04008620586106E-02 U2=0 U3=2.89243764629681E-03 R1=0 R2=-2.90717257567373E-03 R3=0  
Joint=9 OutputCase=ST2D CaseType=LinStatic U1=-2.37507984502521E-02 U2=0 U3=1.50515809875704E-03 R1=0 R2=-1.51526796369589E-03 R3=0  
Joint=9 OutputCase=ST3D CaseType=LinStatic U1=-1.90505402044912E-02 U2=0 U3=1.81253082769586E-03 R1=0 R2=-1.82176439363765E-03 R3=0  
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Joint=10 OutputCase=SSTS CaseType=LinStatic U1=6.10739257335654E-02 U2=0 U3=-1.16660254136879E-02 R1=0 R2=5.86867002114474E-03 R3=0  
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Joint=10 OutputCase=TV01 CaseType=LinStatic U1=-6.56051842327668E-07 U2=0 U3=3.997214477072E-06 R1=0 R2=-1.03758894199823E-05 R3=0  
Joint=10 OutputCase=TV02 CaseType=LinStatic U1=6.56051842327668E-07 U2=0 U3=-3.997214477072E-06 R1=0 R2=1.03758894199823E-05 R3=0  
Joint=10 OutputCase=PPAQ CaseType=LinStatic U1=1.9315561664696E-07 U2=0 U3=-7.54001087086039E-03 R1=0 R2=1.22332847333721E-05 R3=0  
Joint=11 OutputCase=PPST CaseType=LinStatic U1=-4.03877216544913E-07 U2=0 U3=-3.36739967720212E-02 R1=0 R2=8.40897765503523E-05 R3=0  
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Joint=11 OutputCase=TV01 CaseType=LinStatic U1=-6.92954758454445E-07 U2=0 U3=5.19735326474714E-06 R1=0 R2=-1.09616155782149E-05 R3=0  
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Joint=15 OutputCase=SQMS CaseType=LinStatic U1=3.35583355941035E-02 U2=0 U3=-9.262578443660882E-03 R1=0 R2=3.51738183920575E-03 R3=0  
Joint=15 OutputCase=FA01 CaseType=LinStatic U1=1.73550000057892E-02 U2=0 U3=-8.8081683580797E-03 R1=0 R2=3.34619285717563E-03 R3=0  
Joint=15 OutputCase=IS01 CaseType=LinStatic U1=6.52450000214751E-02 U2=0 U3=-2.90930606285319E-02 R1=0 R2=1.10545005772424E-02 R3=0  
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Joint=15 OutputCase=PPST CaseType=LinStatic U1=-4.12082374553725E-07 U2=0 U3=-3.36909663821122E-02 R1=0 R2=6.36504507838857E-05 R3=0  
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Joint=17 OutputCase=PPST CaseType=LinStatic U1=-3.9124677186333E-07 U2=0 U3=-3.36988220676131E-02 R1=0 R2=6.65602436429158E-05 R3=0  
Joint=17 OutputCase=PPNS CaseType=LinStatic U1=-1.26285675776088E-07 U2=0 U3=-2.86226440343498E-02 R1=0 R2=1.32170060691125E-04 R3=0  
Joint=17 OutputCase=ST1D CaseType=LinStatic U1=-3.77676205899039E-02 U2=0 U3=-6.13548227304927E-03 R1=0 R2=-2.93045301004035E-03 R3=0  
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Joint=17 OutputCase=SQMS CaseType=LinStatic U1=4.24144480818058E-02 U2=0 U3=7.38516504754674E-03 R1=0 R2=3.50189970686636E-03 R3=0  
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Joint=17 OutputCase=TV01 CaseType=LinStatic U1=-6.71282346811683E-07 U2=0 U3=1.04686363094828E-05 R1=0 R2=-3.46786390396639E-05 R3=0  
Joint=17 OutputCase=TV02 CaseType=LinStatic U1=6.71282346811683E-07 U2=0 U3=-1.04686363094828E-05 R1=0 R2=3.46786390396639E-05 R3=0  
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Joint=18 OutputCase=SQMD CaseType=LinStatic U1=-4.24122069118567E-02 U2=0 U3=-6.97648687511695E-03 R1=0 R2=-3.51739487428996E-03  
R3=0  
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Joint=18 OutputCase=TV02 CaseType=LinStatic U1=6.35533582773323E-07 U2=0 U3=-1.42661011836114E-05 R1=0 R2=3.28318476115117E-05 R3=0  
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Joint=19 OutputCase=ST3D CaseType=LinStatic U1=-2.36671961755278E-02 U2=0 U3=-1.81028407793532E-03 R1=0 R2=-1.82312058170427E-03 R3=0  
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Joint=19 OutputCase=QM01 CaseType=LinStatic U1=3.1419218119436E-07 U2=0 U3=-3.73725969872411E-02 R1=0 R2=1.67774514589629E-04 R3=0  
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Joint=19 OutputCase=IS01 CaseType=LinStatic U1=9.30302664888574E-02 U2=0 U3=1.09353793890297E-02 R1=0 R2=1.09532651705309E-02 R3=0  
Joint=19 OutputCase=SSTS CaseType=LinStatic U1=7.58797190912883E-02 U2=0 U3=5.85501412458575E-03 R1=0 R2=5.82912589061942E-03 R3=0  
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Joint=19 OutputCase=TC02 CaseType=LinStatic U1=9.84955473753584E-05 U2=0 U3=-2.18092051500292E-05 R1=0 R2=3.05056119814291E-05 R3=0  
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Joint=20 OutputCase=PPST CaseType=LinStatic U1=-9.61677480236631E-13 U2=0 U3=-3.38034996166298E-02 R1=0 R2=-3.84612702887112E-13 R3=0  
Joint=20 OutputCase=PPNS CaseType=LinStatic U1=-8.16763355616606E-13 U2=0 U3=-2.88364949714921E-02 R1=0 R2=-3.26600054780749E-13 R3=0  
Joint=20 OutputCase=ST1D CaseType=LinStatic U1=-3.77685766565679E-02 U2=0 U3=1.47108856733555E-05 R1=0 R2=-2.90055855900465E-03 R3=0  
Joint=20 OutputCase=ST2D CaseType=LinStatic U1=-2.75861011694353E-02 U2=0 U3=1.12429538127036E-05 R1=0 R2=-1.51131902134248E-03 R3=0  
Joint=20 OutputCase=ST3D CaseType=LinStatic U1=-2.36674797798559E-02 U2=0 U3=9.21849908149451E-06 R1=0 R2=9.21849908149451E-06 R3=0  
Joint=20 OutputCase=ST4D CaseType=LinStatic U1=-0.017279163692314 U2=0 U3=7.04181053529184E-06 R1=0 R2=-9.46682163117293E-04 R3=0  
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Joint=20 OutputCase=ST2S CaseType=LinStatic U1=2.75861011694353E-02 U2=0 U3=1.12429538983698E-05 R1=0 R2=1.51131902134259E-03 R3=0  
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Joint=20 OutputCase=QM01 CaseType=LinStatic U1=-1.05935649401569E-12 U2=0 U3=-3.74654822528251E-02 R1=0 R2=-4.23662410627699E-13 R3=0



Joint=20 OutputCase=QM02 CaseType=LinStatic U1=-2.16676535170289E-13 U2=0 U3=-7.66339409716877E-03 R1=0 R2=-8.66530567850669E-14 R3=0  
Joint=20 OutputCase=SQMD CaseType=LinStatic U1=-4.24132968425309E-02 U2=0 U3=1.63330918571808E-05 R1=0 R2=-3.48476853222225E-03 R3=0  
Joint=20 OutputCase=SQMS CaseType=LinStatic U1=4.24132968425311E-02 U2=0 U3=1.63330920548312E-05 R1=0 R2=3.48476853222224E-03 R3=0  
Joint=20 OutputCase=FA01 CaseType=LinStatic U1=2.57676711296096E-02 U2=0 U3=9.39242444670391E-14 R1=0 R2=3.30910826152826E-03 R3=0  
Joint=20 OutputCase=IS01 CaseType=LinStatic U1=0.093030596423762 U2=0 U3=3.10206721421125E-13 R1=0 R2=1.09305290072113E-02 R3=0  
Joint=20 OutputCase=SSTS CaseType=LinStatic U1=7.58788098453912E-02 U2=0 U3=2.95548471232579E-05 R1=0 R2=5.8273557233953E-03 R3=0  
Joint=20 OutputCase=TC01 CaseType=LinStatic U1=-1.34645313367681E-14 U2=0 U3=3.70620111417555E-05 R1=0 R2=-2.02532184545492E-15 R3=0  
Joint=20 OutputCase=TC02 CaseType=LinStatic U1=1.34645313367681E-14 U2=0 U3=-3.70620111417555E-05 R1=0 R2=2.02532184545492E-15 R3=0  
Joint=20 OutputCase=TV01 CaseType=LinStatic U1=1.30852243730245E-16 U2=0 U3=4.70979487950413E-05 R1=0 R2=8.17909980126105E-17 R3=0  
Joint=20 OutputCase=TV02 CaseType=LinStatic U1=-1.30852243730245E-16 U2=0 U3=-4.70979487950413E-05 R1=0 R2=-8.17909980126105E-17 R3=0  
Joint=20 OutputCase=PPAQ CaseType=LinStatic U1=-2.1499841322841E-13 U2=0 U3=-7.53351968165138E-03 R1=0 R2=-8.60350394180144E-14 R3=0  
Joint=21 OutputCase=PPST CaseType=LinStatic U1=1.85204155570281E-07 U2=0 U3=-3.37748971071257E-02 R1=0 R2=-5.20925137933899E-05 R3=0  
Joint=21 OutputCase=PPNS CaseType=LinStatic U1=5.97789981539199E-08 U2=0 U3=-2.87774591292383E-02 R1=0 R2=-1.07028673747932E-04 R3=0  
Joint=21 OutputCase=ST1D CaseType=LinStatic U1=-3.77690292325035E-02 U2=0 U3=2.91432549123786E-03 R1=0 R2=-2.90143965738557E-03 R3=0  
Joint=21 OutputCase=ST2D CaseType=LinStatic U1=-2.75863336856695E-02 U2=0 U3=1.52158172501778E-03 R1=0 R2=-1.51059289093646E-03 R3=0  
Joint=21 OutputCase=ST3D CaseType=LinStatic U1=-2.36677633841839E-02 U2=0 U3=1.82624673052899E-03 R1=0 R2=-1.81817189056563E-03 R3=0  
Joint=21 OutputCase=ST4D CaseType=LinStatic U1=-1.72793093394914E-02 U2=0 U3=9.53110055640381E-04 R1=0 R2=-9.46227569832749E-04 R3=0  
Joint=21 OutputCase=ST1S CaseType=LinStatic U1=3.77681240806323E-02 U2=0 U3=-2.88885228168519E-03 R1=0 R2=2.90933678130251E-03 R3=0  
Joint=21 OutputCase=ST2S CaseType=LinStatic U1=0.027585868653201 U2=0 U3=-1.50197491841423E-03 R1=0 R2=1.5163510931514E-03 R3=0  
Joint=21 OutputCase=ST3S CaseType=LinStatic U1=2.36671961755278E-02 U2=0 U3=-1.81028407783233E-03 R1=0 R2=1.82312058170437E-03 R3=0  
Joint=21 OutputCase=ST4S CaseType=LinStatic U1=1.65292778677293E-02 U2=0 U3=-9.38492535610426E-04 R1=0 R2=9.47451069104792E-04 R3=0  
Joint=21 OutputCase=QM01 CaseType=LinStatic U1=-3.14194299907348E-07 U2=0 U3=-3.73725969863938E-02 R1=0 R2=-1.67774515436938E-04 R3=0  
Joint=21 OutputCase=QM02 CaseType=LinStatic U1=-6.42670158801219E-08 U2=0 U3=0.007644394838126 R1=0 R2=-3.43175145211885E-05 R3=0  
Joint=21 OutputCase=SQMD CaseType=LinStatic U1=-4.24138418078679E-02 U2=0 U3=3.50015057244356E-03 R1=0 R2=-3.48627124166354E-03 R3=0  
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Joint=21 OutputCase=FA01 CaseType=LinStatic U1=0.025767555206535 U2=0 U3=-3.31062370576456E-03 R1=0 R2=3.31621190682615E-03 R3=0  
Joint=21 OutputCase=IS01 CaseType=LinStatic U1=9.30302664888571E-02 U2=0 U3=-1.09353793884093E-02 R1=0 R2=1.09532651705311E-02 R3=0  
Joint=21 OutputCase=SSTS CaseType=LinStatic U1=7.58779005994941E-02 U2=0 U3=-5.80383727315536E-03 R1=0 R2=5.84499157625168E-03 R3=0  
Joint=21 OutputCase=TC01 CaseType=LinStatic U1=9.84955473484293E-05 U2=0 U3=2.18092051540813E-05 R1=0 R2=3.05056119773717E-05 R3=0  
Joint=21 OutputCase=TC02 CaseType=LinStatic U1=-9.84955473484293E-05 U2=0 U3=-2.18092051540813E-05 R1=0 R2=-3.05056119773717E-05 R3=0  
Joint=21 OutputCase=TV01 CaseType=LinStatic U1=3.1776679158294E-07 U2=0 U3=3.88899868920612E-05 R1=0 R2=1.64159238058785E-05 R3=0  
Joint=21 OutputCase=TV02 CaseType=LinStatic U1=-3.1776679158294E-07 U2=0 U3=-3.88899868920612E-05 R1=0 R2=-1.64159238058785E-05 R3=0  
Joint=21 OutputCase=PPAQ CaseType=LinStatic U1=-9.35575172638041E-08 U2=0 U3=-7.5342745937053E-03 R1=0 R2=1.509824193882E-06 R3=0  
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Joint=22 OutputCase=ST1D CaseType=LinStatic U1=-3.77694818084391E-02 U2=0 U3=5.8196508555226E-03 R1=0 R2=-2.91198007644512E-03 R3=0  
Joint=22 OutputCase=ST2D CaseType=LinStatic U1=-2.75865662019037E-02 U2=0 U3=3.03334733651822E-03 R1=0 R2=-1.51417270193323E-03 R3=0  
Joint=22 OutputCase=ST3D CaseType=LinStatic U1=-0.023668046988512 U2=0 U3=3.64685357887189E-03 R1=0 R2=-1.8247769886934E-03 R3=0  
Joint=22 OutputCase=ST4D CaseType=LinStatic U1=-1.72794549866687E-02 U2=0 U3=1.90007238665836E-03 R1=0 R2=-9.4847033494308E-04 R3=0  
Joint=22 OutputCase=ST1S CaseType=LinStatic U1=3.77676715046966E-02 U2=0 U3=-5.80620333184528E-03 R1=0 R2=2.92777432427887E-03 R3=0  
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Joint=22 OutputCase=ST4S CaseType=LinStatic U1=1.65291326361141E-02 U2=0 U3=-1.88847343265992E-03 R1=0 R2=9.53282962369116E-04 R3=0  
Joint=22 OutputCase=QM01 CaseType=LinStatic U1=-6.28387540458202E-07 U2=0 U3=-3.71567179914426E-02 R1=0 R2=-2.09995423459203E-04 R3=0  
Joint=22 OutputCase=QM02 CaseType=LinStatic U1=-1.28533815083709E-07 U2=0 U3=-7.60023777097691E-03 R1=0 R2=-4.29536093439238E-05 R3=0  
Joint=22 OutputCase=SQMD CaseType=LinStatic U1=-0.042414386773205 U2=0 U3=6.99140938929628E-03 R1=0 R2=-3.49965120475493E-03 R3=0  
Joint=22 OutputCase=SQMS CaseType=LinStatic U1=4.24122069118567E-02 U2=0 U3=-6.97648687491968E-03 R1=0 R2=3.5173948742902E-03 R3=0  
Joint=22 OutputCase=FA01 CaseType=LinStatic U1=0.025767207437311 U2=0 U3=-6.6354547022188E-03 R1=0 R2=3.33752284271977E-03 R3=0  
Joint=22 OutputCase=IS01 CaseType=LinStatic U1=9.30292766841428E-02 U2=0 U3=-2.19162311037684E-02 R1=0 R2=1.10214736604903E-02 R3=0  
Joint=22 OutputCase=SSTS CaseType=LinStatic U1=7.58769913535969E-02 U2=0 U3=-1.16645682563306E-02 R1=0 R2=5.88203344918855E-03 R3=0  
Joint=22 OutputCase=TC01 CaseType=LinStatic U1=1.96991094710323E-04 U2=0 U3=-2.39492128129864E-05 R1=0 R2=6.10112239567619E-05 R3=0  
Joint=22 OutputCase=TC02 CaseType=LinStatic U1=-1.96991094710323E-04 U2=0 U3=2.39492128129864E-05 R1=0 R2=-6.10112239567619E-05 R3=0  
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Joint=22 OutputCase=TV02 CaseType=LinStatic U1=-6.35533583035028E-07 U2=0 U3=-1.42661011832843E-05 R1=0 R2=-3.28318476116753E-05 R3=0  
Joint=22 OutputCase=PPAQ CaseType=LinStatic U1=-1.87114819529195E-07 U2=0 U3=-7.53653933003914E-03 R1=0 R2=3.01964847379307E-06 R3=0  
Joint=23 OutputCase=PPST CaseType=LinStatic U1=3.91244848508415E-07 U2=0 U3=-3.36988220659881E-02 R1=0 R2=-6.6560244412127E-05 R3=0  
Joint=23 OutputCase=PPNS CaseType=LinStatic U1=1.26284042249389E-07 U2=0 U3=-2.8626440329699E-02 R1=0 R2=-1.32170061344312E-04 R3=0  
Joint=23 OutputCase=ST1D CaseType=LinStatic U1=-3.77695327232319E-02 U2=0 U3=6.14728296969387E-03 R1=0 R2=-2.91377033576616E-03 R3=0  
Joint=23 OutputCase=ST2D CaseType=LinStatic U1=-0.02758659235998 U2=0 U3=3.2036999996051E-03 R1=0 R2=-1.51484488840971E-03 R3=0  
Joint=23 OutputCase=ST3D CaseType=LinStatic U1=-2.36680788939989E-02 U2=0 U3=3.85216251883777E-03 R1=0 R2=1.8258984527451E-03 R3=0  
Joint=23 OutputCase=ST4D CaseType=LinStatic U1=-1.72794713719762E-02 U2=0 U3=2.0067804593746E-03 R1=0 R2=9.48891441648796E-04 R3=0  
Joint=23 OutputCase=ST1S CaseType=LinStatic U1=3.77676205899039E-02 U2=0 U3=-6.13548227288513E-03 R1=0 R2=2.93045301004055E-03 R3=0  
Joint=23 OutputCase=ST2S CaseType=LinStatic U1=2.75856099788904E-02 U2=0 U3=-3.19406253080104E-03 R1=0 R2=1.52700909058864E-03 R3=0  
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Joint=23 OutputCase=ST4S CaseType=LinStatic U1=1.65291162975574E-02 U2=0 U3=-1.99574565015713E-03 R1=0 R2=9.54107626525225E-04 R3=0  
Joint=23 OutputCase=QM01 CaseType=LinStatic U1=-6.63734280020173E-07 U2=0 U3=-3.71318062082778E-02 R1=0 R2=-2.01355792658347E-04 R3=0

Joint=23 OutputCase=QM02 CaseType=LinStatic U1=-1.35763829994112E-07 U2=0 U3=-7.59514217896593E-03 R1=0 R2=-4.11864121346583E-05 R3=0  
Joint=23 OutputCase=SQMD CaseType=LinStatic U1=-4.24144480818054E-02 U2=0 U3=7.38516504734885E-03 R1=0 R2=-3.50189970686629E-03 R3=0  
Joint=23 OutputCase=SQMS CaseType=LinStatic U1=4.24121456032563E-02 U2=0 U3=-7.37229483787436E-03 R1=0 R2=3.5206414578129E-03 R3=0  
Joint=23 OutputCase=FA01 CaseType=LinStatic U1=0.025767153804776 U2=0 U3=-7.01101330529151E-03 R1=0 R2=3.34080938861461E-03 R3=0  
Joint=23 OutputCase=IS01 CaseType=LinStatic U1=0.093029124037697 U2=0 U3=-2.31564262522991E-02 R1=0 R2=1.10319926885512E-02 R3=0  
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Joint=23 OutputCase=TC01 CaseType=LinStatic U1=2.08071843788536E-04 U2=0 U3=-3.10060188339293E-05 R1=0 R2=6.44431053044429E-05 R3=0  
Joint=23 OutputCase=TC02 CaseType=LinStatic U1=-2.08071843788536E-04 U2=0 U3=3.10060188339293E-05 R1=0 R2=-6.44431053044429E-05 R3=0  
Joint=23 OutputCase=TV01 CaseType=LinStatic U1=6.71282347073388E-07 U2=0 U3=1.04686363091372E-05 R1=0 R2=3.46786390398275E-05 R3=0  
Joint=23 OutputCase=TV02 CaseType=LinStatic U1=-6.71282347073388E-07 U2=0 U3=-1.04686363091372E-05 R1=0 R2=-3.46786390398275E-05 R3=0  
Joint=23 OutputCase=PPAQ CaseType=LinStatic U1=-1.97640016034051E-07 U2=0 U3=-7.53688859484922E-03 R1=0 R2=3.18950370528226E-06 R3=0  
Joint=24 OutputCase=PPST CaseType=LinStatic U1=4.12080421498826E-07 U2=0 U3=-3.36909663804007E-02 R1=0 R2=-6.36504515531139E-05 R3=0  
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Joint=24 OutputCase=ST1D CaseType=LinStatic U1=-3.77695836380246E-02 U2=0 U3=6.47512336464497E-03 R1=0 R2=-2.91568284586453E-03 R3=0  
Joint=24 OutputCase=ST2D CaseType=LinStatic U1=-2.75866185180564E-02 U2=0 U3=3.37413134984163E-03 R1=0 R2=-1.51557157195707E-03 R3=0  
Joint=24 OutputCase=ST3D CaseType=LinStatic U1=-2.36681107994858E-02 U2=0 U3=4.05760197685812E-03 R1=0 R2=-1.82709730966182E-03 R3=0  
Joint=24 OutputCase=ST4D CaseType=LinStatic U1=-1.72794877572836E-02 U2=0 U3=2.11353782688259E-03 R1=0 R2=-9.49346686796694E-04 R3=0  
Joint=24 OutputCase=ST1S CaseType=LinStatic U1=3.77675696751111E-02 U2=0 U3=-6.46524944267939E-03 R1=0 R2=2.9325394657956E-03 R3=0  
Joint=24 OutputCase=ST2S CaseType=LinStatic U1=0.027585583820814 U2=0 U3=-3.36589879205069E-03 R1=0 R2=1.52838357188517E-03 R3=0  
Joint=24 OutputCase=ST3S CaseType=LinStatic U1=2.36668487602259E-02 U2=0 U3=-4.05141453562639E-03 R1=0 R2=1.83810814744542E-03 R3=0  
Joint=24 OutputCase=ST4S CaseType=LinStatic U1=1.65290999590007E-02 U2=0 U3=-2.10311256016253E-03 R1=0 R2=9.54966384736944E-04 R3=0  
Joint=24 OutputCase=QM01 CaseType=LinStatic U1=-6.99081019582144E-07 U2=0 U3=-3.71079581877564E-02 R1=0 R2=-1.89359319423714E-04 R3=0  
Joint=24 OutputCase=QM02 CaseType=LinStatic U1=-1.42993844904505E-07 U2=0 U3=-7.59026417476836E-03 R1=0 R2=-3.87325880639374E-05 R3=0  
Joint=24 OutputCase=SQMD CaseType=LinStatic U1=-4.24145093904058E-02 U2=0 U3=7.77918211747285E-03 R1=0 R2=-3.50429853046915E-03 R3=0  
Joint=24 OutputCase=SQMS CaseType=LinStatic U1=4.24120842946559E-02 U2=0 U3=-7.76847649705924E-03 R1=0 R2=3.52403836282711E-03 R3=0  
Joint=24 OutputCase=FA01 CaseType=LinStatic U1=2.57670972739382E-02 U2=0 U3=-7.38695175914736E-03 R1=0 R2=3.34427574553105E-03 R3=0  
Joint=24 OutputCase=IS01 CaseType=LinStatic U1=0.093028963039774 U2=0 U3=-2.43978371638753E-02 R1=0 R2=1.10430872257461E-02 R3=0  
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Joint=24 OutputCase=TC01 CaseType=LinStatic U1=2.19152592866749E-04 U2=0 U3=-3.84489115064862E-05 R1=0 R2=6.78749866521238E-05 R3=0  
Joint=24 OutputCase=TC02 CaseType=LinStatic U1=-2.19152592866749E-04 U2=0 U3=3.84489115064862E-05 R1=0 R2=-6.78749866521238E-05 R3=0  
Joint=24 OutputCase=TV01 CaseType=LinStatic U1=7.070311111111747E-07 U2=0 U3=6.46340739932308E-06 R1=0 R2=3.65254304679796E-05 R3=0  
Joint=24 OutputCase=TV02 CaseType=LinStatic U1=-7.070311111111747E-07 U2=0 U3=-6.46340739932308E-06 R1=0 R2=-3.65254304679796E-05 R3=0  
Joint=24 OutputCase=PPAQ CaseType=LinStatic U1=-2.08165212538907E-07 U2=0 U3=-7.53725696837283E-03 R1=0 R2=3.35935893676913E-06 R3=0  
Joint=25 OutputCase=PPST CaseType=LinStatic U1=-8.71815803559059E-06 U2=0 U3=-0.033684507504873 R1=0 R2=-6.93053448334621E-05 R3=0  
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Joint=25 OutputCase=ST2D CaseType=LinStatic U1=-2.39398846067283E-02 U2=0 U3=-3.36566206503349E-03 R1=0 R2=-1.52579809728045E-03 R3=0  
Joint=25 OutputCase=ST3D CaseType=LinStatic U1=-1.92792036065625E-02 U2=0 U3=-4.05108176290851E-03 R1=0 R2=-1.83738079261448E-03 R3=0  
Joint=25 OutputCase=ST4D CaseType=LinStatic U1=-1.49951927795614E-02 U2=0 U3=-2.10823323937023E-03 R1=0 R2=-9.55752098130641E-04 R3=0  
Joint=25 OutputCase=ST1S CaseType=LinStatic U1=3.07704467508159E-02 U2=0 U3=6.4745923257677E-03 R1=0 R2=2.95060771330506E-03 R3=0  
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Joint=25 OutputCase=ST3S CaseType=LinStatic U1=1.928218850366791E-02 U2=0 U3=4.05726920414062E-03 R1=0 R2=1.848982794046794E-03 R3=0  
Joint=25 OutputCase=ST4S CaseType=LinStatic U1=1.42538398813132E-02 U2=0 U3=2.10810410321015E-03 R1=0 R2=9.62950978992443E-04 R3=0  
Joint=25 OutputCase=QM01 CaseType=LinStatic U1=-2.05190896079557E-05 U2=0 U3=-3.70926000335778E-02 R1=0 R2=-1.50032031970126E-04 R3=0  
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Joint=25 OutputCase=SQMS CaseType=LinStatic U1=3.40039552629135E-02 U2=0 U3=7.77852914365633E-03 R1=0 R2=3.54349346642036E-03 R3=0  
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Joint=25 OutputCase=IS01 CaseType=LinStatic U1=6.66296424713262E-02 U2=0 U3=0.02439533723913 R1=0 R2=1.10723566190298E-02 R3=0  
Joint=25 OutputCase=SSTS CaseType=LinStatic U1=6.18192445824369E-02 U2=0 U3=1.30077541544823E-02 R1=0 R2=5.92790677927982E-03 R3=0  
Joint=25 OutputCase=TC01 CaseType=LinStatic U1=-1.02580138413518E-05 U2=0 U3=-3.84489115155212E-05 R1=0 R2=-7.35821918241037E-05 R3=0  
Joint=25 OutputCase=TC02 CaseType=LinStatic U1=1.02580138413518E-05 U2=0 U3=3.84489115155212E-05 R1=0 R2=7.35821918241037E-05 R3=0  
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Joint=25 OutputCase=TV02 CaseType=LinStatic U1=-2.34768940498538E-06 U2=0 U3=-6.46340739968699E-06 R1=0 R2=-1.22496059771863E-05 R3=0  
Joint=25 OutputCase=PPAQ CaseType=LinStatic U1=9.84735482451027E-07 U2=0 U3=-7.5372569687556E-03 R1=0 R2=9.09535574630765E-06 R3=0  
Joint=26 OutputCase=PPST CaseType=LinStatic U1=-1.67607258205223E-05 U2=0 U3=-3.36849519437443E-02 R1=0 R2=-6.05928091831785E-05 R3=0  
Joint=26 OutputCase=PPNS CaseType=LinStatic U1=-2.89724816892137E-05 U2=0 U3=-2.85980872037267E-02 R1=0 R2=-1.0333575961984E-04 R3=0  
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Joint=26 OutputCase=ST2D CaseType=LinStatic U1=-2.41308479300536E-02 U2=0 U3=-3.36567452435468E-03 R1=0 R2=-1.5280871029865E-03 R3=0  
Joint=26 OutputCase=ST3D CaseType=LinStatic U1=-1.95091592021727E-02 U2=0 U3=-4.0510992772675E-03 R1=0 R2=1.8400450404907E-03 R3=0  
Joint=26 OutputCase=ST4D CaseType=LinStatic U1=-1.51148112242773E-02 U2=0 U3=-2.1082410442267E-03 R1=0 R2=-9.5718590189167E-04 R3=0  
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Joint=26 OutputCase=ST2S CaseType=LinStatic U1=2.41374731797823E-02 U2=0 U3=3.3739070821461E-03 R1=0 R2=1.54324090437989E-03 R3=0  
Joint=26 OutputCase=ST3S CaseType=LinStatic U1=1.95137431486628E-02 U2=0 U3=4.0572867184996E-03 R1=0 R2=1.85167127723546E-03 R3=0  
Joint=26 OutputCase=ST4S CaseType=LinStatic U1=1.43745424256403E-02 U2=0 U3=2.10811189791879E-03 R1=0 R2=9.64270552437534E-04 R3=0  
Joint=26 OutputCase=QM01 CaseType=LinStatic U1=-3.84675439019332E-05 U2=0 U3=-3.70934083575811E-02 R1=0 R2=-1.35078525981549E-04 R3=0



Joint=26 OutputCase=QM02 CaseType=LinStatic U1=-7.86836125266603E-06 U2=0 U3=-7.58728807314158E-03 R1=0 R2=-2.76296984962224E-05 R3=0  
Joint=26 OutputCase=SQMD CaseType=LinStatic U1=-3.44400323715632E-02 U2=0 U3=-7.76785789029544E-03 R1=0 R2=-3.52846638303013E-03 R3=0  
Joint=26 OutputCase=SQMS CaseType=LinStatic U1=3.44477665204539E-02 U2=0 U3=7.77856351070972E-03 R1=0 R2=3.5487003421728E-03 R3=0  
Joint=26 OutputCase=FA01 CaseType=LinStatic U1=0.01819348365943 U2=0 U3=7.38621179628311E-03 R1=0 R2=3.35586496385551E-03 R3=0  
Joint=26 OutputCase=IS01 CaseType=LinStatic U1=6.80153905594349E-02 U2=0 U3=2.43954688141492E-02 R1=0 R2=1.10871007203836E-02 R3=0  
Joint=26 OutputCase=SSTS CaseType=LinStatic U1=6.25617775750436E-02 U2=0 U3=1.30078103061608E-02 R1=0 R2=5.93652615523126E-03 R3=0  
Joint=26 OutputCase=TC01 CaseType=LinStatic U1=-1.99361298687835E-05 U2=0 U3=-3.84489115155212E-05 R1=0 R2=-7.79526703649894E-05 R3=0  
Joint=26 OutputCase=TC02 CaseType=LinStatic U1=1.99361298687835E-05 U2=0 U3=3.84489115155212E-05 R1=0 R2=7.79526703649894E-05 R3=0  
Joint=26 OutputCase=TV01 CaseType=LinStatic U1=4.03285091158605E-06 U2=0 U3=6.463407399687E-06 R1=0 R2=1.26247839019082E-05 R3=0  
Joint=26 OutputCase=TV02 CaseType=LinStatic U1=4.03285091158605E-06 U2=0 U3=-6.463407399687E-06 R1=0 R2=-1.26247839019082E-05 R3=0  
Joint=26 OutputCase=PPAQ CaseType=LinStatic U1=1.98811798690408E-06 U2=0 U3=-7.53725696875561E-03 R1=0 R2=7.53757312087018E-06 R3=0  
Joint=27 OutputCase=PPST CaseType=LinStatic U1=-3.8397903550486E-05 U2=0 U3=-3.36866135903804E-02 R1=0 R2=-2.76480690228653E-05 R3=0  
Joint=27 OutputCase=PPNS CaseType=LinStatic U1=-6.73730376613506E-05 U2=0 U3=-0.028600071271735 R1=0 R2=-5.08130600633752E-05 R3=0  
Joint=27 OutputCase=ST1D CaseType=LinStatic U1=-3.26050210221501E-02 U2=0 U3=-6.46485815091783E-03 R1=0 R2=-2.94869514279742E-03 R3=0  
Joint=27 OutputCase=ST2D CaseType=LinStatic U1=-0.024897113953801 U2=0 U3=-3.36572436163944E-03 R1=0 R2=-1.53485098348264E-03 R3=0  
Joint=27 OutputCase=ST3D CaseType=LinStatic U1=-2.04317648181566E-02 U2=0 U3=-4.05116933470344E-03 R1=0 R2=-1.84778429178589E-03 R3=0  
Joint=27 OutputCase=ST4D CaseType=LinStatic U1=-1.55947963022636E-02 U2=0 U3=-2.10827226365257E-03 R1=0 R2=-9.61422687684429E-04 R3=0  
Joint=27 OutputCase=ST1S CaseType=LinStatic U1=3.26212642346936E-02 U2=0 U3=6.47473207288402E-03 R1=0 R2=2.9609114589133E-03 R3=0  
Joint=27 OutputCase=ST2S CaseType=LinStatic U1=2.49106961075374E-02 U2=0 U3=3.37395691943087E-03 R1=0 R2=1.54347684533613E-03 R3=0  
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Joint=27 OutputCase=ST4S CaseType=LinStatic U1=1.48576885365338E-02 U2=0 U3=2.10814307675338E-03 R1=0 R2=9.64443072240614E-04 R3=0  
Joint=27 OutputCase=QM01 CaseType=LinStatic U1=-9.09633959521715E-05 U2=0 U3=-3.70966416535946E-02 R1=0 R2=-7.20320612808375E-05 R3=0  
Joint=27 OutputCase=QM02 CaseType=LinStatic U1=-1.86061491720313E-05 U2=0 U3=-7.58794942914434E-03 R1=0 R2=-1.47338307165316E-05 R3=0  
Joint=27 OutputCase=SQMD CaseType=LinStatic U1=-3.62091899299371E-02 U2=0 U3=-0.007767995358509 R1=0 R2=-3.5431809685013E-03 R3=0  
Joint=27 OutputCase=SQMS CaseType=LinStatic U1=3.62267866371323E-02 U2=0 U3=7.77870097892328E-03 R1=0 R2=3.55701039326761E-03 R3=0  
Joint=27 OutputCase=FA01 CaseType=LinStatic U1=1.98756665045004E-02 U2=0 U3=7.38637623251687E-03 R1=0 R2=3.36814967984646E-03 R3=0  
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Joint=27 OutputCase=SSTS CaseType=LinStatic U1=6.55376221425628E-02 U2=0 U3=1.30080349128747E-02 R1=0 R2=5.94860747872139E-03 R3=0  
Joint=27 OutputCase=TC01 CaseType=LinStatic U1=-6.31385967878991E-05 U2=0 U3=-3.84489115155214E-05 R1=0 R2=-9.02447425727004E-05 R3=0  
Joint=27 OutputCase=TC02 CaseType=LinStatic U1=6.31385967878991E-05 U2=0 U3=3.84489115155214E-05 R1=0 R2=9.02447425727004E-05 R3=0  
Joint=27 OutputCase=TV01 CaseType=LinStatic U1=1.06294932801332E-05 U2=0 U3=-6.46340739968701E-06 R1=0 R2=1.08562899274204E-05 R3=0  
Joint=27 OutputCase=TV02 CaseType=LinStatic U1=-1.06294932801332E-05 U2=0 U3=6.46340739968701E-06 R1=0 R2=-1.08562899274204E-05 R3=0  
Joint=27 OutputCase=PPAQ CaseType=LinStatic U1=4.27989291401768E-06 U2=0 U3=-7.53725696875562E-03 R1=0 R2=2.44896630497756E-06 R3=0  
Joint=28 OutputCase=PPST CaseType=LinStatic U1=-4.43242457875467E-05 U2=0 U3=-3.36880894628585E-02 R1=0 R2=2.24802723213445E-06 R3=0  
Joint=28 OutputCase=PPNS CaseType=LinStatic U1=-7.97582513240506E-05 U2=0 U3=-2.86020553397432E-02 R1=0 R2=7.25609617907738E-07 R3=0  
Joint=28 OutputCase=ST1D CaseType=LinStatic U1=-3.40816282467071E-02 U2=0 U3=-6.46496994861088E-03 R1=0 R2=-2.95359563450156E-03 R3=0  
Joint=28 OutputCase=ST2D CaseType=LinStatic U1=-2.56658050608651E-02 U2=0 U3=-3.36577419892421E-03 R1=0 R2=-1.5377874362538E-03 R3=0  
Joint=28 OutputCase=ST3D CaseType=LinStatic U1=-2.13570729638083E-02 U2=0 U3=-4.05123939213938E-03 R1=0 R2=-1.85085515912022E-03 R3=0  
Joint=28 OutputCase=ST4D CaseType=LinStatic U1=-1.60763004021958E-02 U2=0 U3=-2.10830348307844E-03 R1=0 R2=-9.63261989374943E-04 R3=0  
Joint=28 OutputCase=ST1S CaseType=LinStatic U1=3.41013239251645E-02 U2=0 U3=6.47484387057708E-03 R1=0 R2=2.9535509006826E-03 R3=0  
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Joint=28 OutputCase=ST4S CaseType=LinStatic U1=1.53391450478485E-02 U2=0 U3=2.10817425558796E-03 R1=0 R2=9.59776078968328E-04 R3=0  
Joint=28 OutputCase=QM01 CaseType=LinStatic U1=-1.10643039353491E-04 U2=0 U3=-0.037099874949608 R1=0 R2=-3.8136913858739E-06 R3=0  
Joint=28 OutputCase=QM02 CaseType=LinStatic U1=-2.2631530776845E-05 U2=0 U3=-7.58861078514709E-03 R1=0 R2=-7.80073238016296E-07 R3=0  
Joint=28 OutputCase=SQMD CaseType=LinStatic U1=-3.79834621253378E-02 U2=0 U3=-7.76813282672256E-03 R1=0 R2=-3.5489249311377E-03 R3=0  
Joint=28 OutputCase=SQMS CaseType=LinStatic U1=3.80051996310941E-02 U2=0 U3=7.77883844713685E-03 R1=0 R2=3.5495332076271E-03 R3=0  
Joint=28 OutputCase=FA01 CaseType=LinStatic U1=0.021561868836446 U2=0 U3=7.38654066875064E-03 R1=0 R2=3.3719429113569E-03 R3=0  
Joint=28 OutputCase=IS01 CaseType=LinStatic U1=7.91430635494473E-02 U2=0 U3=0.024396521414303 R1=0 R2=1.11370069799635E-02 R3=0  
Joint=28 OutputCase=SSTS CaseType=LinStatic U1=6.85111302213625E-02 U2=0 U3=1.30082591595887E-02 R1=0 R2=5.93381977826284E-03 R3=0  
Joint=28 OutputCase=TC01 CaseType=LinStatic U1=-1.10411163028537E-04 U2=0 U3=-3.84489115155216E-05 R1=0 R2=-9.42370676510805E-05 R3=0  
Joint=28 OutputCase=TC02 CaseType=LinStatic U1=1.10411163028537E-04 U2=0 U3=3.84489115155216E-05 R1=0 R2=9.42330676510805E-05 R3=0  
Joint=28 OutputCase=TV01 CaseType=LinStatic U1=1.50342063920864E-05 U2=0 U3=6.46340739968702E-06 R1=0 R2=3.85706687553214E-06 R3=0  
Joint=28 OutputCase=TV02 CaseType=LinStatic U1=-1.50342063920864E-05 U2=0 U3=-6.46340739968702E-06 R1=0 R2=-3.85706687553214E-06 R3=0  
Joint=28 OutputCase=PPAQ CaseType=LinStatic U1=4.39437390752792E-06 U2=0 U3=-7.53725696875564E-03 R1=0 R2=-1.13560261354288E-06 R3=0  
Joint=29 OutputCase=PPST CaseType=LinStatic U1=-3.60650140652734E-05 U2=0 U3=-3.36893795611785E-02 R1=0 R2=2.90954795818203E-05 R3=0  
Joint=29 OutputCase=PPNS CaseType=LinStatic U1=-6.66201376149045E-05 U2=0 U3=-2.86040394077515E-02 R1=0 R2=5.12802494240087E-05 R3=0  
Joint=29 OutputCase=ST1D CaseType=LinStatic U1=3.55588232647058E-02 U2=0 U3=-6.46508174630394E-03 R1=0 R2=-2.95104631656397E-03 R3=0  
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Joint=29 OutputCase=ST3D CaseType=LinStatic U1=-2.22827494471265E-02 U2=0 U3=-4.05130944957533E-03 R1=0 R2=-1.8492576424521E-03 R3=0  
Joint=29 OutputCase=ST4D CaseType=LinStatic U1=-1.65581247818726E-02 U2=0 U3=-2.10833470250431E-03 R1=0 R2=-9.62703806663239E-04 R3=0  
Joint=29 OutputCase=ST1S CaseType=LinStatic U1=3.55750210374896E-02 U2=0 U3=6.47495566827013E-03 R1=0 R2=2.9387659874018E-03 R3=0  
Joint=29 OutputCase=ST2S CaseType=LinStatic U1=2.64467930858978E-02 U2=0 U3=3.37405659400039E-03 R1=0 R2=1.52637990750901E-03 R3=0  
Joint=29 OutputCase=ST3S CaseType=LinStatic U1=0.02229289969619 U2=0 U3=4.05749689080744E-03 R1=0 R2=1.84156223881593E-03 R3=0  
Joint=29 OutputCase=ST4S CaseType=LinStatic U1=1.58175272798581E-02 U2=0 U3=2.10820543442255E-03 R1=0 R2=9.53763044195693E-04 R3=0

Joint=29 OutputCase=QM01 CaseType=LinStatic U1=-9.4920521508766E-05 U2=0 U3=-3.71031082456215E-02 R1=0 R2=-6.95765837033416E-05 R3=0  
Joint=29 OutputCase=QM02 CaseType=LinStatic U1=-1.9415561217695E-05 U2=0 U3=-7.58927214114984E-03 R1=0 R2=1.42315739393235E-05 R3=0  
Joint=29 OutputCase=SQMD CaseType=LinStatic U1=-3.97583636463481E-02 U2=0 U3=-7.76827029493612E-03 R1=0 R2=-3.54569827093942E-03

R3=0

Joint=29 OutputCase=SQMS CaseType=LinStatic U1=3.97765700360107E-02 U2=0 U3=7.77897591535041E-03 R1=0 R2=3.53248775994753E-03 R3=0  
Joint=29 OutputCase=FA01 CaseType=LinStatic U1=2.32478449130268E-02 U2=0 U3=7.3867051049844E-03 R1=0 R2=3.36724465838687E-03 R3=0  
Joint=29 OutputCase=IS01 CaseType=LinStatic U1=8.47108812434369E-02 U2=0 U3=2.43970477143799E-02 R1=0 R2=1.11191161547814E-02 R3=0  
Joint=29 OutputCase=SSTS CaseType=LinStatic U1=7.14718555876538E-02 U2=0 U3=1.30084841263026E-02 R1=0 R2=5.90411620659757E-03 R3=0  
Joint=29 OutputCase=TC01 CaseType=LinStatic U1=-1.57601955026033E-04 U2=0 U3=-3.84489115155218E-05 R1=0 R2=-8.99176456001298E-05 R3=0  
Joint=29 OutputCase=TC02 CaseType=LinStatic U1=1.57601955026033E-04 U2=0 U3=3.84489115155218E-05 R1=0 R2=8.99176456001298E-05 R3=0  
Joint=29 OutputCase=TV01 CaseType=LinStatic U1=1.46316257087453E-05 U2=0 U3=6.46340739968704E-06 R1=0 R2=-8.37288525375672E-06 R3=0  
Joint=29 OutputCase=TV02 CaseType=LinStatic U1=-1.46316257087453E-05 U2=0 U3=-6.46340739968704E-06 R1=0 R2=8.37288525375672E-06 R3=0  
Joint=29 OutputCase=PPAQ CaseType=LinStatic U1=3.101579916121E-06 U2=0 U3=-7.53725696875566E-03 R1=0 R2=-3.18013363469104E-06 R3=0  
Joint=30 OutputCase=PPST CaseType=LinStatic U1=-1.51442171462857E-05 U2=0 U3=-3.36904838853405E-02 R1=0 R2=5.28942880261922E-05 R3=0  
Joint=30 OutputCase=PPNS CaseType=LinStatic U1=-2.84507114715035E-05 U2=0 U3=-2.86060234757598E-02 R1=0 R2=1.00850859354928E-04 R3=0  
Joint=30 OutputCase=ST1D CaseType=LinStatic U1=-3.70328811713252E-02 U2=0 U3=-6.46519354399699E-03 R1=0 R2=-2.94104718898468E-03 R3=0  
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Joint=30 OutputCase=ST3D CaseType=LinStatic U1=-0.02320646007611 U2=0 U3=-4.05137950701127E-03 R1=0 R2=-1.84299174178152E-03 R3=0  
Joint=30 OutputCase=ST4D CaseType=LinStatic U1=-1.70390706990931E-02 U2=0 U3=-2.10836592193019E-03 R1=0 R2=-9.59748139549318E-04 R3=0  
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Joint=30 OutputCase=QM01 CaseType=LinStatic U1=-4.12098898208701E-05 U2=0 U3=-3.71063415416349E-02 R1=0 R2=1.48138763986809E-04 R3=0  
Joint=30 OutputCase=QM02 CaseType=LinStatic U1=-8.42929564516894E-06 U2=0 U3=-7.58993349715259E-03 R1=0 R2=3.03011108154877E-05 R3=0  
Joint=30 OutputCase=SQMD CaseType=LinStatic U1=-4.15294091815505E-02 U2=0 U3=-7.76840776314968E-03 R1=0 R2=-3.53350098790643E-03

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Joint=30 OutputCase=SQMS CaseType=LinStatic U1=4.15377457786345E-02 U2=0 U3=7.77911338356397E-03 R1=0 R2=3.51279004752761E-03 R3=0  
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Joint=30 OutputCase=TC01 CaseType=LinStatic U1=-2.0055909215721E-04 U2=0 U3=-3.84489115155219E-05 R1=0 R2=-7.72984764198482E-05 R3=0  
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Joint=30 OutputCase=TV01 CaseType=LinStatic U1=6.8063866914096E-06 U2=0 U3=6.46340739968705E-06 R1=0 R2=-2.58335664604461E-05 R3=0  
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Joint=31 OutputCase=ST4S CaseType=LinStatic U1=1.64113813981533E-02 U2=0 U3=2.10824440796578E-03 R1=0 R2=9.47791061747705E-04 R3=0  
Joint=31 OutputCase=QM01 CaseType=LinStatic U1=-2.1543547790925E-05 U2=0 U3=-3.71071498656383E-02 R1=0 R2=1.68587419244278E-04 R3=0  
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Joint=31 OutputCase=SQMD CaseType=LinStatic U1=-4.19710424451369E-02 U2=0 U3=-7.76844213020307E-03 R1=0 R2=-3.52905000733025E-03

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Joint=31 OutputCase=SQMS CaseType=LinStatic U1=4.19764183194566E-02 U2=0 U3=7.77914775061736E-03 R1=0 R2=3.5083280812923E-03 R3=0  
Joint=31 OutputCase=FA01 CaseType=LinStatic U1=2.53485287142018E-02 U2=0 U3=7.38691065027661E-03 R1=0 R2=3.34943069212366E-03 R3=0  
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Joint=31 OutputCase=SSTS CaseType=LinStatic U1=7.51485464363501E-02 U2=0 U3=0.013008764884695 R1=0 R2=5.86422117926177E-03 R3=0  
Joint=31 OutputCase=TC01 CaseType=LinStatic U1=-2.10150330109813E-04 U2=0 U3=-3.8448911515522E-05 R1=0 R2=-7.28462236358198E-05 R3=0  
Joint=31 OutputCase=TC02 CaseType=LinStatic U1=2.10150330109813E-04 U2=0 U3=3.8448911515522E-05 R1=0 R2=7.28462236358198E-05 R3=0  
Joint=31 OutputCase=TV01 CaseType=LinStatic U1=3.38379854051009E-06 U2=0 U3=6.46340739968705E-06 R1=0 R2=-3.10160381804623E-05 R3=0  
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Joint=32 OutputCase=ST3D CaseType=LinStatic U1=-1.92821385066795E-02 U2=0 U3=4.05726920403742E-03 R1=0 R2=-1.84898279402773E-03 R3=0  
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Joint=32 OutputCase=ST2S CaseType=LinStatic U1=2.39398846067285E-02 U2=0 U3=-3.3656620649481E-03 R1=0 R2=1.52579809728002E-03 R3=0  
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Joint=32 OutputCase=QM01 CaseType=LinStatic U1=2.05190895021046E-05 U2=0 U3=-3.70926000316929E-02 R1=0 R2=1.50032031122399E-04 R3=0  
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Joint=32 OutputCase=FA01 CaseType=LinStatic U1=1.77740635409058E-02 U2=0 U3=-7.38617068703705E-03 R1=0 R2=3.35146699040695E-03 R3=0  
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Joint=32 OutputCase=SSTS CaseType=LinStatic U1=6.18098351848199E-02 U2=0 U3=-1.29879169902025E-02 R1=0 R2=5.89071033642533E-03 R3=0  
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Joint=32 OutputCase=TV01 CaseType=LinStatic U1=-2.34768940511259E-06 U2=0 U3=6.46340739932309E-06 R1=0 R2=-1.22496059770225E-05 R3=0  
Joint=32 OutputCase=TV02 CaseType=LinStatic U1=2.34768940511259E-06 U2=0 U3=-6.46340739932309E-06 R1=0 R2=1.22496059770225E-05 R3=0  
Joint=32 OutputCase=PPAQ CaseType=LinStatic U1=-9.84735503684987E-07 U2=0 U3=-7.53725696837283E-03 R1=0 R2=-9.09535591846019E-06 R3=0  
Joint=33 OutputCase=PPST CaseType=LinStatic U1=1.67607256283195E-05 U2=0 U3=-3.36849519420331E-02 R1=0 R2=6.05928084136027E-05 R3=0  
Joint=33 OutputCase=PPNS CaseType=LinStatic U1=2.89724815257198E-05 U2=0 U3=-2.85980872022736E-02 R1=0 R2=1.03335758966343E-04 R3=0  
Joint=33 OutputCase=ST1D CaseType=LinStatic U1=-3.11400415600715E-02 U2=0 U3=6.47462027502629E-03 R1=0 R2=-2.95489799621735E-03 R3=0  
Joint=33 OutputCase=ST2D CaseType=LinStatic U1=-0.024137473179783 U2=0 U3=3.37390708206023E-03 R1=0 R2=-1.54324090437927E-03 R3=0  
Joint=33 OutputCase=ST3D CaseType=LinStatic U1=-1.95137431486632E-02 U2=0 U3=4.05728671839641E-03 R1=0 R2=-1.85167127723489E-03 R3=0  
Joint=33 OutputCase=ST4D CaseType=LinStatic U1=-1.51189608726586E-02 U2=0 U3=2.11339733946619E-03 R1=0 R2=-9.66677147514522E-04 R3=0  
Joint=33 OutputCase=ST1S CaseType=LinStatic U1=0.031132726495856 U2=0 U3=-6.46474635306071E-03 R1=0 R2=2.93634484145089E-03 R3=0  
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Joint=33 OutputCase=ST3S CaseType=LinStatic U1=1.95091592021729E-02 U2=0 U3=-4.05109927716469E-03 R1=0 R2=1.84004504044867E-03 R3=0  
Joint=33 OutputCase=ST4S CaseType=LinStatic U1=1.43705028516958E-02 U2=0 U3=-2.10297225540691E-03 R1=0 R2=9.54788694133376E-04 R3=0  
Joint=33 OutputCase=QM01 CaseType=LinStatic U1=3.84675436901177E-05 U2=0 U3=-3.70934083556962E-02 R1=0 R2=1.35078525133845E-04 R3=0  
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Joint=33 OutputCase=SSTS CaseType=LinStatic U1=0.062547081274158 U2=0 U3=-0.012987973141881 R1=0 R2=0.005899252012882 R3=0  
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Joint=33 OutputCase=TV02 CaseType=LinStatic U1=4.03285091169278E-06 U2=0 U3=-6.46340739932309E-06 R1=0 R2=1.26247839017444E-05 R3=0  
Joint=33 OutputCase=PPAQ CaseType=LinStatic U1=-1.98811802965679E-06 U2=0 U3=-7.53725696837283E-03 R1=0 R2=-7.57357329301809E-06 R3=0  
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Joint=34 OutputCase=ST3D CaseType=LinStatic U1=-2.04419435418065E-02 U2=0 U3=4.05735677583234E-03 R1=0 R2=-1.85434958198307E-03 R3=0  
Joint=34 OutputCase=ST4D CaseType=LinStatic U1=-1.56033032370212E-02 U2=0 U3=2.11342855889206E-03 R1=0 R2=-9.6682529072741E-04 R3=0  
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Joint=34 OutputCase=SQMD CaseType=LinStatic U1=-3.62267866371325E-02 U2=0 U3=7.77870097872545E-03 R1=0 R2=-3.55701039326683E-03 R3=0  
Joint=34 OutputCase=SQMS CaseType=LinStatic U1=3.62091899299372E-02 U2=0 U3=-7.76799535831184E-03 R1=0 R2=3.54318096850082E-03 R3=0  
Joint=34 OutputCase=FA01 CaseType=LinStatic U1=1.98756665045003E-02 U2=0 U3=-7.38637623232924E-03 R1=0 R2=3.36814967984606E-03 R3=0  
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Joint=34 OutputCase=SSTS CaseType=LinStatic U1=6.55049887805205E-02 U2=0 U3=-1.29881977485949E-02 R1=0 R2=5.92406433705022E-03 R3=0  
Joint=34 OutputCase=TC01 CaseType=LinStatic U1=6.31385967681562E-05 U2=0 U3=-3.84489115064865E-05 R1=0 R2=9.0244742568592E-05 R3=0  
Joint=34 OutputCase=TC02 CaseType=LinStatic U1=-6.31385967681562E-05 U2=0 U3=3.84489115064865E-05 R1=0 R2=-9.0244742568592E-05 R3=0  
Joint=34 OutputCase=TV01 CaseType=LinStatic U1=-1.06294932801581E-05 U2=0 U3=6.46340739932309E-06 R1=0 R2=-1.08562899272566E-05 R3=0  
Joint=34 OutputCase=TV02 CaseType=LinStatic U1=1.06294932801581E-05 U2=0 U3=-6.46340739932309E-06 R1=0 R2=1.08562899272566E-05 R3=0  
Joint=34 OutputCase=PPAQ CaseType=LinStatic U1=-4.27989304283972E-06 U2=0 U3=-7.53725696837283E-03 R1=0 R2=-2.4489664771076E-06 R3=0  
Joint=35 OutputCase=PPST CaseType=LinStatic U1=4.43242448240468E-05 U2=0 U3=-3.36880894611472E-02 R1=0 R2=2.24802300105415E-06 R3=0  
Joint=35 OutputCase=PPNS CaseType=LinStatic U1=9.7582505071267E-05 U2=0 U3=-0.02860205533829 R1=0 R2=-7.25610271271483E-07 R3=0  
Joint=35 OutputCase=ST1D CaseType=LinStatic U1=-3.41013239251644E-02 U2=0 U3=6.47484387041237E-03 R1=0 R2=-2.95355090068213E-03 R3=0  
Joint=35 OutputCase=ST2D CaseType=LinStatic U1=-2.56812044523321E-02 U2=0 U3=3.37400675662974E-03 R1=0 R2=-1.53599724245931E-03 R3=0  
Joint=35 OutputCase=ST3D CaseType=LinStatic U1=-0.021369415157052 U2=0 U3=4.05742683326828E-03 R1=0 R2=-1.85082712690771E-03 R3=0  
Joint=35 OutputCase=ST4D CaseType=LinStatic U1=-1.60859455236428E-02 U2=0 U3=2.11345977831793E-03 R1=0 R2=-9.62140761396377E-04 R3=0  
Joint=35 OutputCase=ST1S CaseType=LinStatic U1=0.034081628246707 U2=0 U3=-6.46496994844679E-03 R1=0 R2=2.95359563450135E-03 R3=0

Joint=35 OutputCase=ST2S CaseType=LinStatic U1=0.025665805060865 U2=0 U3=-3.3657741988388E-03 R1=0 R2=1.53778743625363E-03 R3=0  
Joint=35 OutputCase=ST3S CaseType=LinStatic U1=2.13570729638082E-02 U2=0 U3=-4.05123939203656E-03 R1=0 R2=1.85085515912009E-03 R3=0  
Joint=35 OutputCase=ST4S CaseType=LinStatic U1=1.53295809599271E-02 U2=0 U3=-2.10303461307608E-03 R1=0 R2=9.60844277411801E-04 R3=0  
Joint=35 OutputCase=QM01 CaseType=LinStatic U1=1.1064303829406E-04 U2=0 U3=-0.037099874947723 R1=0 R2=3.81369053834397E-06 R3=0  
Joint=35 OutputCase=QM02 CaseType=LinStatic U1=2.26315305601543E-05 U2=0 U3=-7.58861078476152E-03 R1=0 R2=7.80073064664727E-07 R3=0  
Joint=35 OutputCase=SQMD CaseType=LinStatic U1=-0.038005199631094 U2=0 U3=7.77883844693899E-03 R1=0 R2=-3.54953320762656E-03 R3=0  
Joint=35 OutputCase=SQMS CaseType=LinStatic U1=3.79834621253377E-02 U2=0 U3=-7.76813282652538E-03 R1=0 R2=3.54892493113749E-03 R3=0  
Joint=35 OutputCase=FA01 CaseType=LinStatic U1=2.15618688364459E-02 U2=0 U3=-7.38654066856299E-03 R1=0 R2=3.37194291135672E-03 R3=0  
Joint=35 OutputCase=IS01 CaseType=LinStatic U1=7.91430635494467E-02 U2=0 U3=-2.43965214136832E-02 R1=0 R2=1.11370069799629E-02 R3=0  
Joint=35 OutputCase=SSTS CaseType=LinStatic U1=6.84715606963037E-02 U2=0 U3=-1.29884223553088E-02 R1=0 R2=5.9339096505648E-03 R3=0  
Joint=35 OutputCase=TC01 CaseType=LinStatic U1=1.10411163006738E-04 U2=0 U3=-3.84489115064864E-05 R1=0 R2=9.42330676469686E-05 R3=0  
Joint=35 OutputCase=TC02 CaseType=LinStatic U1=-1.10411163006738E-04 U2=0 U3=3.84489115064864E-05 R1=0 R2=-9.42330676469686E-05 R3=0  
Joint=35 OutputCase=TV01 CaseType=LinStatic U1=-1.50342063920293E-05 U2=0 U3=6.46340739932309E-06 R1=0 R2=-3.85706687536836E-06 R3=0  
Joint=35 OutputCase=TV02 CaseType=LinStatic U1=1.50342063920293E-05 U2=0 U3=-6.46340739932309E-06 R1=0 R2=3.85706687536836E-06 R3=0  
Joint=35 OutputCase=PPAQ CaseType=LinStatic U1=-4.39437412241059E-06 U2=0 U3=-7.53725696837283E-03 R1=0 R2=1.1356024414302E-06 R3=0  
Joint=36 OutputCase=PPST CaseType=LinStatic U1=3.60650127188829E-05 U2=0 U3=-3.36893795594671E-02 R1=0 R2=-2.90954803511636E-05 R3=0  
Joint=36 OutputCase=PPNS CaseType=LinStatic U1=6.66201364713152E-05 U2=0 U3=-2.86040394062982E-02 R1=0 R2=-5.12802500773073E-05 R3=0  
Joint=36 OutputCase=ST1D CaseType=LinStatic U1=-3.55750210374893E-02 U2=0 U3=6.47495566810541E-03 R1=0 R2=-2.93876598740154E-03 R3=0  
Joint=36 OutputCase=ST2D CaseType=LinStatic U1=-2.64467930858978E-02 U2=0 U3=3.3740565939145E-03 R1=0 R2=-1.52637990750876E-03 R3=0  
Joint=36 OutputCase=ST3D CaseType=LinStatic U1=-2.22928996961899E-02 U2=0 U3=4.05749689070422E-03 R1=0 R2=-1.84156223881576E-03 R3=0  
Joint=36 OutputCase=ST4D CaseType=LinStatic U1=-1.65655064730628E-02 U2=0 U3=2.11349099774379E-03 R1=0 R2=-9.56117031096437E-04 R3=0  
Joint=36 OutputCase=ST1S CaseType=LinStatic U1=3.55588232647056E-02 U2=0 U3=-6.46508174613983E-03 R1=0 R2=2.95104631656397E-03 R3=0  
Joint=36 OutputCase=ST2S CaseType=LinStatic U1=2.64350075373835E-02 U2=0 U3=-3.36582403612356E-03 R1=0 R2=1.53689646129998E-03 R3=0  
Joint=36 OutputCase=ST3S CaseType=LinStatic U1=2.22827494471264E-02 U2=0 U3=-4.05130944947249E-03 R1=0 R2=1.8492576424521E-03 R3=0  
Joint=36 OutputCase=ST4S CaseType=LinStatic U1=1.58101955358368E-02 U2=0 U3=-2.10306579191066E-03 R1=0 R2=9.60286103244917E-04 R3=0  
Joint=36 OutputCase=QM01 CaseType=LinStatic U1=9.49205200255911E-05 U2=0 U3=-3.71031082437364E-02 R1=0 R2=-6.9576584550788E-05 R3=0  
Joint=36 OutputCase=QM02 CaseType=LinStatic U1=1.94155609143328E-05 U2=0 U3=-7.58927214076426E-03 R1=0 R2=-1.42315741126576E-05 R3=0  
Joint=36 OutputCase=SQMD CaseType=LinStatic U1=-3.97765700360104E-02 U2=0 U3=7.77897591515254E-03 R1=0 R2=-3.53248775994724E-03 R3=0  
Joint=36 OutputCase=SQMS CaseType=LinStatic U1=3.97583636463479E-02 U2=0 U3=-7.76827029473893E-03 R1=0 R2=3.54569827093943E-03 R3=0  
Joint=36 OutputCase=FA01 CaseType=LinStatic U1=2.32478449130266E-02 U2=0 U3=-7.38670510479674E-03 R1=0 R2=3.36724465838688E-03 R3=0  
Joint=36 OutputCase=IS01 CaseType=LinStatic U1=8.47108812434361E-02 U2=0 U3=-2.43970477137601E-02 R1=0 R2=1.11191161547814E-02 R3=0  
Joint=36 OutputCase=SSTS CaseType=LinStatic U1=7.14393135161807E-02 U2=0 U3=-1.29886469620227E-02 R1=0 R2=5.92878795342584E-03 R3=0  
Joint=36 OutputCase=TC01 CaseType=LinStatic U1=1.57601955002178E-04 U2=0 U3=-3.84489115064863E-05 R1=0 R2=8.99176455960228E-05 R3=0  
Joint=36 OutputCase=TC02 CaseType=LinStatic U1=-1.57601955002178E-04 U2=0 U3=3.84489115064863E-05 R1=0 R2=-8.99176455960228E-05 R3=0  
Joint=36 OutputCase=TV01 CaseType=LinStatic U1=-1.46316257086063E-05 U2=0 U3=6.46340739932309E-06 R1=0 R2=8.37288525392044E-06 R3=0  
Joint=36 OutputCase=TV02 CaseType=LinStatic U1=1.46316257086063E-05 U2=0 U3=-6.46340739932309E-06 R1=0 R2=-8.37288525392044E-06 R3=0  
Joint=36 OutputCase=PPAQ CaseType=LinStatic U1=-3.10158021705573E-06 U2=0 U3=-7.53725696837283E-03 R1=0 R2=3.18013346259537E-06 R3=0  
Joint=37 OutputCase=PPST CaseType=LinStatic U1=1.51442154152424E-05 U2=0 U3=-0.033690483883629 R1=0 R2=-5.289428879546E-05 R3=0  
Joint=37 OutputCase=PPNS CaseType=LinStatic U1=2.84507100012809E-05 U2=0 U3=-2.86060234743064E-02 R1=0 R2=-1.00850860008162E-04 R3=0  
Joint=37 OutputCase=ST1D CaseType=LinStatic U1=-3.70401308106124E-02 U2=0 U3=6.47506746579846E-03 R1=0 R2=-2.92250638494643E-03 R3=0  
Joint=37 OutputCase=ST2D CaseType=LinStatic U1=-2.72075809681997E-02 U2=0 U3=3.37410643119925E-03 R1=0 R2=-1.5183433816562E-03 R3=0  
Joint=37 OutputCase=ST3D CaseType=LinStatic U1=-2.321100302441133E-02 U2=0 U3=4.05756694814015E-03 R1=0 R2=-1.83137324451412E-03 R3=0  
Joint=37 OutputCase=ST4D CaseType=LinStatic U1=-1.70420604389767E-02 U2=0 U3=2.11352221716966E-03 R1=0 R2=-9.51083080877558E-04 R3=0  
Joint=37 OutputCase=ST1S CaseType=LinStatic U1=3.70328811713251E-02 U2=0 U3=-6.46519354383287E-03 R1=0 R2=2.94104718898482E-03 R3=0  
Joint=37 OutputCase=ST2S CaseType=LinStatic U1=2.72028076694939E-02 U2=0 U3=-3.36587387340831E-03 R1=0 R2=1.53217805862137E-03 R3=0  
Joint=37 OutputCase=ST3S CaseType=LinStatic U1=2.32064600761099E-02 U2=0 U3=-4.05137950690843E-03 R1=0 R2=1.84299174178161E-03 R3=0  
Joint=37 OutputCase=ST4S CaseType=LinStatic U1=1.62899333636954E-02 U2=0 U3=-2.10309697074524E-03 R1=0 R2=9.57337285207296E-04 R3=0  
Joint=37 OutputCase=QM01 CaseType=LinStatic U1=4.12098879139928E-05 U2=0 U3=-3.71063415397497E-02 R1=0 R2=-1.48138764834174E-04 R3=0  
Joint=37 OutputCase=QM02 CaseType=LinStatic U1=8.429295255144E-06 U2=0 U3=-0.007589933496767 R1=0 R2=-3.03011109888046E-05 R3=0  
Joint=37 OutputCase=SQMD CaseType=LinStatic U1=-4.15377457786341E-02 U2=0 U3=7.77911338336608E-03 R1=0 R2=-3.51279004752748E-03 R3=0  
Joint=37 OutputCase=SQMS CaseType=LinStatic U1=4.15294091815504E-02 U2=0 U3=-7.76840776295247E-03 R1=0 R2=3.53350098790666E-03 R3=0  
Joint=37 OutputCase=FA01 CaseType=LinStatic U1=2.49293489920023E-02 U2=0 U3=-7.38686954103049E-03 R1=0 R2=3.35405492903648E-03 R3=0  
Joint=37 OutputCase=IS01 CaseType=LinStatic U1=9.02629144879638E-02 U2=0 U3=-2.43975740138369E-02 R1=0 R2=0.011074730723744 R3=0  
Joint=37 OutputCase=SSTS CaseType=LinStatic U1=0.074400763734825 U2=0 U3=-1.29888715687366E-02 R1=0 R2=5.90869924563321E-03 R3=0  
Joint=37 OutputCase=TC01 CaseType=LinStatic U1=2.00559099189814E-04 U2=0 U3=-3.84489115064862E-05 R1=0 R2=7.72984764157543E-05 R3=0  
Joint=37 OutputCase=TC02 CaseType=LinStatic U1=-2.00559099189814E-04 U2=0 U3=3.84489115064862E-05 R1=0 R2=-7.72984764157543E-05 R3=0  
Joint=37 OutputCase=TV01 CaseType=LinStatic U1=-6.80638669118879E-06 U2=0 U3=6.46340739932309E-06 R1=0 R2=2.58335664606097E-05 R3=0  
Joint=37 OutputCase=TV02 CaseType=LinStatic U1=6.80638669118879E-06 U2=0 U3=-6.46340739932309E-06 R1=0 R2=-2.58335664606097E-05 R3=0  
Joint=37 OutputCase=PPAQ CaseType=LinStatic U1=-1.17153027546139E-06 U2=0 U3=-7.53725696837283E-03 R1=0 R2=3.68462658638803E-06 R3=0  
Joint=37 OutputCase=PPST CaseType=LinStatic U1=8.11427800589731E-06 U2=0 U3=-3.36907309374573E-02 R1=0 R2=5.8367640206328E-05 R3=0  
Joint=38 OutputCase=PPNS CaseType=LinStatic U1=1.5054868816424E-05 U2=0 U3=-2.86065194913085E-02 R1=0 R2=1.18089757822879E-04 R3=0  
Joint=38 OutputCase=ST1D CaseType=LinStatic U1=-0.03740508901621 U2=0 U3=6.47509541522172E-03 R1=0 R2=-2.91890829061893E-03 R3=0  
Joint=38 OutputCase=ST2D CaseType=LinStatic U1=-2.73971878118917E-02 U2=0 U3=3.37411889052044E-03 R1=0 R2=-1.51683998799989E-03 R3=0  
Joint=38 OutputCase=ST3D CaseType=LinStatic U1=-2.34397021631184E-02 U2=0 U3=4.05758446249913E-03 R1=0 R2=-1.82911851764113E-03 R3=0  
Joint=38 OutputCase=ST4D CaseType=LinStatic U1=-1.71608292735151E-02 U2=0 U3=2.11353002202613E-03 R1=0 R2=-9.50141298736628E-04 R3=0  
Joint=38 OutputCase=ST1S CaseType=LinStatic U1=3.74004689620432E-02 U2=0 U3=-6.46522149325613E-03 R1=0 R2=2.93738337433351E-03 R3=0



Joint=38 OutputCase=ST2S CaseType=LinStatic U1=2.73943143228645E-02 U2=0 U3=-3.3658863327295E-03 R1=0 R2=1.53040042236968E-03 R3=0  
Joint=38 OutputCase=ST3S CaseType=LinStatic U1=2.34368070304909E-02 U2=0 U3=-4.05139702126741E-03 R1=0 R2=1.8406958316136E-03 R3=0  
Joint=38 OutputCase=ST4S CaseType=LinStatic U1=1.64095907519878E-02 U2=0 U3=-2.10310476545388E-03 R1=0 R2=9.56226542593086E-04 R3=0  
Joint=38 OutputCase=QM01 CaseType=LinStatic U1=2.15435457781285E-05 U2=0 U3=-3.71071498637531E-02 R1=0 R2=-1.68587420091622E-04 R3=0  
Joint=38 OutputCase=QM02 CaseType=LinStatic U1=4.40663436371765E-06 U2=0 U3=-7.59009883576768E-03 R1=0 R2=-3.44837904732827E-05 R3=0  
Joint=38 OutputCase=SQMD CaseType=LinStatic U1=-4.19764183194562E-02 U2=0 U3=7.77914775041947E-03 R1=0 R2=-3.5083280812922E-03 R3=0  
Joint=38 OutputCase=SQMS CaseType=LinStatic U1=4.19710424451369E-02 U2=0 U3=-7.76844213000586E-03 R1=0 R2=3.52905000733046E-03 R3=0  
Joint=38 OutputCase=FA01 CaseType=LinStatic U1=2.53485287142017E-02 U2=0 U3=-7.38691065008892E-03 R1=0 R2=3.34943069212379E-03 R3=0  
Joint=38 OutputCase=IS01 CaseType=LinStatic U1=9.16469324606366E-02 U2=0 U3=-2.43977055888561E-02 R1=0 R2=1.10596763443385E-02 R3=0  
Joint=38 OutputCase=SSTS CaseType=LinStatic U1=7.51392645347629E-02 U2=0 U3=-1.29889277204151E-02 R1=0 R2=5.9013384732704E-03 R3=0  
Joint=38 OutputCase=TC01 CaseType=LinStatic U1=2.10150330083395E-04 U2=0 U3=-3.84489115064862E-05 R1=0 R2=7.28462236317304E-05 R3=0  
Joint=38 OutputCase=TC02 CaseType=LinStatic U1=-2.10150330083395E-04 U2=0 U3=3.84489115064862E-05 R1=0 R2=-7.28462236317304E-05 R3=0  
Joint=38 OutputCase=TV01 CaseType=LinStatic U1=-3.38379854026883E-06 U2=0 U3=6.46340739932309E-06 R1=0 R2=3.10160381806259E-05 R3=0  
Joint=38 OutputCase=TV02 CaseType=LinStatic U1=3.38379854026883E-06 U2=0 U3=-6.46340739932309E-06 R1=0 R2=-3.10160381806259E-05 R3=0  
Joint=38 OutputCase=PPAQ CaseType=LinStatic U1=-6.79683129949565E-07 U2=0 U3=-7.53725696837283E-03 R1=0 R2=3.57011894587172E-06 R3=0

TABLE: "JOINT REACTIONS"

Joint=1 OutputCase=PPST CaseType=LinStatic F1=-2.12689961670555E-04 F2=0 F3=3.37166827163038 M1=0 M2=0 M3=0  
Joint=1 OutputCase=PPNS CaseType=LinStatic F1=-6.86512701381562E-05 F2=0 F3=2.86531685575729 M1=0 M2=0 M3=0  
Joint=1 OutputCase=ST1D CaseType=LinStatic F1=15.1994820414493 F2=0 F3=0.770861521790855 M1=0 M2=0 M3=0  
Joint=1 OutputCase=ST2D CaseType=LinStatic F1=11.8744563207164 F2=0 F3=0.40129299587028 M1=0 M2=0 M3=0  
Joint=1 OutputCase=ST3D CaseType=LinStatic F1=9.52467542400029 F2=0 F3=0.483056315464335 M1=0 M2=0 M3=0  
Joint=1 OutputCase=ST4D CaseType=LinStatic F1=7.43778446375896 F2=0 F3=0.251367853350312 M1=0 M2=0 M3=0  
Joint=1 OutputCase=ST1S CaseType=LinStatic F1=-15.2005179681362 F2=0 F3=-0.772598600763594 M1=0 M2=0 M3=0  
Joint=1 OutputCase=ST2S CaseType=LinStatic F1=-11.8755436866277 F2=0 F3=-0.402741316312785 M1=0 M2=0 M3=0  
Joint=1 OutputCase=ST3S CaseType=LinStatic F1=-9.5253245820064 F2=0 F3=-0.484144846860081 M1=0 M2=0 M3=0  
Joint=1 OutputCase=ST4S CaseType=LinStatic F1=-7.06656563009263 F2=0 F3=-0.251643708283404 M1=0 M2=0 M3=0  
Joint=1 OutputCase=QM01 CaseType=LinStatic F1=3.60820204442492E-04 F2=0 F3=3.71607186421333 M1=0 M2=0 M3=0  
Joint=1 OutputCase=QM02 CaseType=LinStatic F1=7.38041327262734E-05 F2=0 F3=0.760105608589089 M1=0 M2=0 M3=0  
Joint=1 OutputCase=SQMD CaseType=LinStatic F1=16.7791677970515 F2=0 F3=0.926257844380633 M1=0 M2=0 M3=0  
Joint=1 OutputCase=SQMS CaseType=LinStatic F1=-16.7802072135844 F2=0 F3=-0.928141240682066 M1=0 M2=0 M3=0  
Joint=1 OutputCase=FA01 CaseType=LinStatic F1=-8.67750000289442 F2=0 F3=-0.880816835826766 M1=0 M2=0 M3=0  
Joint=1 OutputCase=IS01 CaseType=LinStatic F1=-32.6225000107368 F2=0 F3=-2.90930606291528 M1=0 M2=0 M3=0  
Joint=1 OutputCase=SSTS CaseType=LinStatic F1=-30.5385406218394 F2=0 F3=-1.55218616913278 M1=0 M2=0 M3=0  
Joint=1 OutputCase=TC01 CaseType=LinStatic F1=5.79314516817155E-04 F2=0 F3=6.7641607807979E-03 M1=0 M2=0 M3=0  
Joint=1 OutputCase=TC02 CaseType=LinStatic F1=-5.79314516817155E-04 F2=0 F3=-6.7641607807979E-03 M1=0 M2=0 M3=0  
Joint=1 OutputCase=TV01 CaseType=LinStatic F1=-3.64924078103525E-04 F2=0 F3=-1.13708100233058E-03 M1=0 M2=0 M3=0  
Joint=1 OutputCase=TV02 CaseType=LinStatic F1=3.64924078103525E-04 F2=0 F3=1.13708100233058E-03 M1=0 M2=0 M3=0  
Joint=1 OutputCase=PPAQ CaseType=LinStatic F1=1.07441410424981E-04 F2=0 F3=0.753248988883944 M1=0 M2=0 M3=0  
Joint=2 OutputCase=PPST CaseType=LinStatic F1=0 F2=0 F3=5.26582548205985 M1=0 M2=0 M3=0  
Joint=2 OutputCase=PPNS CaseType=LinStatic F1=0 F2=0 F3=4.47292893228924 M1=0 M2=0 M3=0  
Joint=2 OutputCase=ST1D CaseType=LinStatic F1=0 F2=0 F3=1.11300385972327 M1=0 M2=0 M3=0  
Joint=2 OutputCase=ST2D CaseType=LinStatic F1=0 F2=0 F3=0.579425010879 M1=0 M2=0 M3=0  
Joint=2 OutputCase=ST3D CaseType=LinStatic F1=0 F2=0 F3=0.697458010780533 M1=0 M2=0 M3=0  
Joint=2 OutputCase=ST4D CaseType=LinStatic F1=0 F2=0 F3=0.362948821657991 M1=0 M2=0 M3=0  
Joint=2 OutputCase=ST1S CaseType=LinStatic F1=0 F2=0 F3=-1.1151668017722 M1=0 M2=0 M3=0  
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Joint=2 OutputCase=ST3S CaseType=LinStatic F1=0 F2=0 F3=-0.698813407031594 M1=0 M2=0 M3=0  
Joint=2 OutputCase=ST4S CaseType=LinStatic F1=0 F2=0 F3=-0.363167515866391 M1=0 M2=0 M3=0  
Joint=2 OutputCase=QM01 CaseType=LinStatic F1=0 F2=0 F3=5.80128168103831 M1=0 M2=0 M3=0  
Joint=2 OutputCase=QM02 CaseType=LinStatic F1=0 F2=0 F3=1.1866257983942 M1=0 M2=0 M3=0  
Joint=2 OutputCase=SQMD CaseType=LinStatic F1=0 F2=0 F3=1.33736424701365 M1=0 M2=0 M3=0  
Joint=2 OutputCase=SQMS CaseType=LinStatic F1=0 F2=0 F3=-1.33970937761457 M1=0 M2=0 M3=0  
Joint=2 OutputCase=FA01 CaseType=LinStatic F1=0 F2=0 F3=-1.27171210373516 M1=0 M2=0 M3=0  
Joint=2 OutputCase=IS01 CaseType=LinStatic F1=0 F2=0 F3=-4.20035186407357 M1=0 M2=0 M3=0  
Joint=2 OutputCase=SSTS CaseType=LinStatic F1=0 F2=0 F3=-2.24042146112623 M1=0 M2=0 M3=0  
Joint=2 OutputCase=TC01 CaseType=LinStatic F1=0 F2=0 F3=8.42246553455682E-03 M1=0 M2=0 M3=0  
Joint=2 OutputCase=TC02 CaseType=LinStatic F1=0 F2=0 F3=-8.42246553455682E-03 M1=0 M2=0 M3=0  
Joint=2 OutputCase=TV01 CaseType=LinStatic F1=0 F2=0 F3=-1.41584830142119E-03 M1=0 M2=0 M3=0  
Joint=2 OutputCase=TV02 CaseType=LinStatic F1=0 F2=0 F3=1.41584830142119E-03 M1=0 M2=0 M3=0  
Joint=2 OutputCase=PPAQ CaseType=LinStatic F1=0 F2=0 F3=-1.17729953644726 M1=0 M2=0 M3=0  
Joint=3 OutputCase=PPST CaseType=LinStatic F1=0 F2=0 F3=3.7904246946528 M1=0 M2=0 M3=0  
Joint=3 OutputCase=PPNS CaseType=LinStatic F1=0 F2=0 F3=3.2188336154073 M1=0 M2=0 M3=0  
Joint=3 OutputCase=ST1D CaseType=LinStatic F1=0 F2=0 F3=0.764320170517709 M1=0 M2=0 M3=0  
Joint=3 OutputCase=ST2D CaseType=LinStatic F1=0 F2=0 F3=0.397910764523239 M1=0 M2=0 M3=0  
Joint=3 OutputCase=ST3D CaseType=LinStatic F1=0 F2=0 F3=0.478957212117183 M1=0 M2=0 M3=0

APPROVATO SGP

Società di Progetto  
Brebemi SpA



Joint=3 OutputCase=ST4D CaseType=LinStatic F1=0 F2=0 F3=0.249249237875259 M1=0 M2=0 M3=0  
Joint=3 OutputCase=ST1S CaseType=LinStatic F1=0 F2=0 F3=-0.765654237974969 M1=0 M2=0 M3=0  
Joint=3 OutputCase=ST2S CaseType=LinStatic F1=0 F2=0 F3=-0.399023066957586 M1=0 M2=0 M3=0  
Joint=3 OutputCase=ST3S CaseType=LinStatic F1=0 F2=0 F3=-0.479793198467867 M1=0 M2=0 M3=0  
Joint=3 OutputCase=ST4S CaseType=LinStatic F1=0 F2=0 F3=-0.249320704607351 M1=0 M2=0 M3=0  
Joint=3 OutputCase=QM01 CaseType=LinStatic F1=0 F2=0 F3=4.17487398753586 M1=0 M2=0 M3=0  
Joint=3 OutputCase=QM02 CaseType=LinStatic F1=0 F2=0 F3=0.853951497450516 M1=0 M2=0 M3=0  
Joint=3 OutputCase=SQMD CaseType=LinStatic F1=0 F2=0 F3=0.918389200427729 M1=0 M2=0 M3=0  
Joint=3 OutputCase=SQMS CaseType=LinStatic F1=0 F2=0 F3=-0.919835638819016 M1=0 M2=0 M3=0  
Joint=3 OutputCase=FA01 CaseType=LinStatic F1=0 F2=0 F3=-0.873286080987692 M1=0 M2=0 M3=0  
Joint=3 OutputCase=IS01 CaseType=LinStatic F1=0 F2=0 F3=-2.88435677462023 M1=0 M2=0 M3=0  
Joint=3 OutputCase=SSTS CaseType=LinStatic F1=0 F2=0 F3=-1.53823462448425 M1=0 M2=0 M3=0  
Joint=3 OutputCase=TC01 CaseType=LinStatic F1=0 F2=0 F3=5.19483967920397E-03 M1=0 M2=0 M3=0  
Joint=3 OutputCase=TC02 CaseType=LinStatic F1=0 F2=0 F3=-5.19483967920397E-03 M1=0 M2=0 M3=0  
Joint=3 OutputCase=TV01 CaseType=LinStatic F1=0 F2=0 F3=-8.73272191583095E-04 M1=0 M2=0 M3=0  
Joint=3 OutputCase=TV02 CaseType=LinStatic F1=0 F2=0 F3=8.73272191583095E-04 M1=0 M2=0 M3=0  
Joint=3 OutputCase=PPAQ CaseType=LinStatic F1=0 F2=0 F3=0.847798394111769 M1=0 M2=0 M3=0  
Joint=4 OutputCase=PPST CaseType=LinStatic F1=0 F2=0 F3=3.78945578870065 M1=0 M2=0 M3=0  
Joint=4 OutputCase=PPNS CaseType=LinStatic F1=0 F2=0 F3=3.21717320659379 M1=0 M2=0 M3=0  
Joint=4 OutputCase=ST1D CaseType=LinStatic F1=0 F2=0 F3=0.727277676117553 M1=0 M2=0 M3=0  
Joint=4 OutputCase=ST2D CaseType=LinStatic F1=0 F2=0 F3=0.378635580642634 M1=0 M2=0 M3=0  
Joint=4 OutputCase=ST3D CaseType=LinStatic F1=0 F2=0 F3=0.455744727961822 M1=0 M2=0 M3=0  
Joint=4 OutputCase=ST4D CaseType=LinStatic F1=0 F2=0 F3=0.237175361382798 M1=0 M2=0 M3=0  
Joint=4 OutputCase=ST1S CaseType=LinStatic F1=0 F2=0 F3=-0.72838849233875 M1=0 M2=0 M3=0  
Joint=4 OutputCase=ST2S CaseType=LinStatic F1=0 F2=0 F3=-0.379561743394169 M1=0 M2=0 M3=0  
Joint=4 OutputCase=ST3S CaseType=LinStatic F1=0 F2=0 F3=-0.456440815100434 M1=0 M2=0 M3=0  
Joint=4 OutputCase=ST4S CaseType=LinStatic F1=0 F2=0 F3=-0.237160834706419 M1=0 M2=0 M3=0  
Joint=4 OutputCase=QM01 CaseType=LinStatic F1=0 F2=0 F3=4.17282656732712 M1=0 M2=0 M3=0  
Joint=4 OutputCase=QM02 CaseType=LinStatic F1=0 F2=0 F3=0.853532706953273 M1=0 M2=0 M3=0  
Joint=4 OutputCase=SQMD CaseType=LinStatic F1=0 F2=0 F3=0.873876280071224 M1=0 M2=0 M3=0  
Joint=4 OutputCase=SQMS CaseType=LinStatic F1=0 F2=0 F3=-0.875080662367831 M1=0 M2=0 M3=0  
Joint=4 OutputCase=FA01 CaseType=LinStatic F1=0 F2=0 F3=-0.830939577543701 M1=0 M2=0 M3=0  
Joint=4 OutputCase=IS01 CaseType=LinStatic F1=0 F2=0 F3=-2.74446063721246 M1=0 M2=0 M3=0  
Joint=4 OutputCase=SSTS CaseType=LinStatic F1=0 F2=0 F3=-1.46336602531543 M1=0 M2=0 M3=0  
Joint=4 OutputCase=TC01 CaseType=LinStatic F1=0 F2=0 F3=4.32550254549613E-03 M1=0 M2=0 M3=0  
Joint=4 OutputCase=TC02 CaseType=LinStatic F1=0 F2=0 F3=-4.32550254549613E-03 M1=0 M2=0 M3=0  
Joint=4 OutputCase=TV01 CaseType=LinStatic F1=0 F2=0 F3=-7.27133332464786E-04 M1=0 M2=0 M3=0  
Joint=4 OutputCase=TV02 CaseType=LinStatic F1=0 F2=0 F3=7.27133332464786E-04 M1=0 M2=0 M3=0  
Joint=4 OutputCase=PPAQ CaseType=LinStatic F1=0 F2=0 F3=0.847941408985005 M1=0 M2=0 M3=0  
Joint=5 OutputCase=PPST CaseType=LinStatic F1=0 F2=0 F3=3.78832463703514 M1=0 M2=0 M3=0  
Joint=5 OutputCase=PPNS CaseType=LinStatic F1=0 F2=0 F3=3.21534288897377 M1=0 M2=0 M3=0  
Joint=5 OutputCase=ST1D CaseType=LinStatic F1=0 F2=0 F3=0.690247877014168 M1=0 M2=0 M3=0  
Joint=5 OutputCase=ST2D CaseType=LinStatic F1=0 F2=0 F3=0.359367856285301 M1=0 M2=0 M3=0  
Joint=5 OutputCase=ST3D CaseType=LinStatic F1=0 F2=0 F3=0.432540199247365 M1=0 M2=0 M3=0  
Joint=5 OutputCase=ST4D CaseType=LinStatic F1=0 F2=0 F3=0.225106157316801 M1=0 M2=0 M3=0  
Joint=5 OutputCase=ST1S CaseType=LinStatic F1=0 F2=0 F3=-0.691141106228598 M1=0 M2=0 M3=0  
Joint=5 OutputCase=ST2S CaseType=LinStatic F1=0 F2=0 F3=-0.360112602005791 M1=0 M2=0 M3=0  
Joint=5 OutputCase=ST3S CaseType=LinStatic F1=0 F2=0 F3=-0.433099936633381 M1=0 M2=0 M3=0  
Joint=5 OutputCase=ST4S CaseType=LinStatic F1=0 F2=0 F3=-0.225008567278607 M1=0 M2=0 M3=0  
Joint=5 OutputCase=QM01 CaseType=LinStatic F1=0 F2=0 F3=4.17050076756351 M1=0 M2=0 M3=0  
Joint=5 OutputCase=QM02 CaseType=LinStatic F1=0 F2=0 F3=0.853056975183445 M1=0 M2=0 M3=0  
Joint=5 OutputCase=SQMD CaseType=LinStatic F1=0 F2=0 F3=0.829378295462723 M1=0 M2=0 M3=0  
Joint=5 OutputCase=SQMS CaseType=LinStatic F1=0 F2=0 F3=-0.830346763002306 M1=0 M2=0 M3=0  
Joint=5 OutputCase=FA01 CaseType=LinStatic F1=0 F2=0 F3=-0.788603201853732 M1=0 M2=0 M3=0  
Joint=5 OutputCase=IS01 CaseType=LinStatic F1=0 F2=0 F3=-2.60460142065704 M1=0 M2=0 M3=0  
Joint=5 OutputCase=SSTS CaseType=LinStatic F1=0 F2=0 F3=-1.38853431127999 M1=0 M2=0 M3=0  
Joint=5 OutputCase=TC01 CaseType=LinStatic F1=0 F2=0 F3=3.47822183999503E-03 M1=0 M2=0 M3=0  
Joint=5 OutputCase=TC02 CaseType=LinStatic F1=0 F2=0 F3=-3.47822183999503E-03 M1=0 M2=0 M3=0  
Joint=5 OutputCase=TV01 CaseType=LinStatic F1=0 F2=0 F3=-5.84702242322919E-04 M1=0 M2=0 M3=0  
Joint=5 OutputCase=TV02 CaseType=LinStatic F1=0 F2=0 F3=5.84702242322919E-04 M1=0 M2=0 M3=0  
Joint=5 OutputCase=PPAQ CaseType=LinStatic F1=0 F2=0 F3=0.848090541703609 M1=0 M2=0 M3=0  
Joint=6 OutputCase=PPST CaseType=LinStatic F1=0 F2=0 F3=18.725278518513 M1=0 M2=0 M3=0  
Joint=6 OutputCase=PPNS CaseType=LinStatic F1=0 F2=0 F3=15.8886958255604 M1=0 M2=0 M3=0  
Joint=6 OutputCase=ST1D CaseType=LinStatic F1=0 F2=0 F3=3.2300039255183 M1=0 M2=0 M3=0  
Joint=6 OutputCase=ST2D CaseType=LinStatic F1=0 F2=0 F3=1.68171452535954 M1=0 M2=0 M3=0  
Joint=6 OutputCase=ST3D CaseType=LinStatic F1=0 F2=0 F3=2.02406495990538 M1=0 M2=0 M3=0

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Joint=6 OutputCase=ST4D CaseType=LinStatic F1=0 F2=0 F3=1.05341722884985 M1=0 M2=0 M3=0  
Joint=6 OutputCase=ST1S CaseType=LinStatic F1=0 F2=0 F3=-3.23340061334857 M1=0 M2=0 M3=0  
Joint=6 OutputCase=ST2S CaseType=LinStatic F1=0 F2=0 F3=-1.68454657416019 M1=0 M2=0 M3=0  
Joint=6 OutputCase=ST3S CaseType=LinStatic F1=0 F2=0 F3=-2.02619347645692 M1=0 M2=0 M3=0  
Joint=6 OutputCase=ST4S CaseType=LinStatic F1=0 F2=0 F3=-1.05255294555632 M1=0 M2=0 M3=0  
Joint=6 OutputCase=QM01 CaseType=LinStatic F1=0 F2=0 F3=20.6088579686499 M1=0 M2=0 M3=0  
Joint=6 OutputCase=QM02 CaseType=LinStatic F1=0 F2=0 F3=4.2154482208602 M1=0 M2=0 M3=0  
Joint=6 OutputCase=SQMD CaseType=LinStatic F1=0 F2=0 F3=3.88104062481759 M1=0 M2=0 M3=0  
Joint=6 OutputCase=SQMS CaseType=LinStatic F1=0 F2=0 F3=-3.88472342185622 M1=0 M2=0 M3=0  
Joint=6 OutputCase=FA01 CaseType=LinStatic F1=0 F2=0 F3=-3.69009031634968 M1=0 M2=0 M3=0  
Joint=6 OutputCase=IS01 CaseType=LinStatic F1=0 F2=0 F3=-12.1875147784587 M1=0 M2=0 M3=0  
Joint=6 OutputCase=SSTS CaseType=LinStatic F1=0 F2=0 F3=-6.49605073882447 M1=0 M2=0 M3=0  
Joint=6 OutputCase=TC01 CaseType=LinStatic F1=0 F2=0 F3=1.32266540371894E-02 M1=0 M2=0 M3=0  
Joint=6 OutputCase=TC02 CaseType=LinStatic F1=0 F2=0 F3=-1.32266540371894E-02 M1=0 M2=0 M3=0  
Joint=6 OutputCase=TV01 CaseType=LinStatic F1=0 F2=0 F3=-2.22345055305322E-03 M1=0 M2=0 M3=0  
Joint=6 OutputCase=TV02 CaseType=LinStatic F1=0 F2=0 F3=2.22345055305322E-03 M1=0 M2=0 M3=0  
Joint=6 OutputCase=PPAQ CaseType=LinStatic F1=0 F2=0 F3=4.19413104710745 M1=0 M2=0 M3=0  
Joint=7 OutputCase=PPST CaseType=LinStatic F1=0 F2=0 F3=33.5683540793533 M1=0 M2=0 M3=0  
Joint=7 OutputCase=PPNS CaseType=LinStatic F1=0 F2=0 F3=28.4185985341675 M1=0 M2=0 M3=0  
Joint=7 OutputCase=ST1D CaseType=LinStatic F1=0 F2=0 F3=2.89820920735259 M1=0 M2=0 M3=0  
Joint=7 OutputCase=ST2D CaseType=LinStatic F1=0 F2=0 F3=1.50997024023398 M1=0 M2=0 M3=0  
Joint=7 OutputCase=ST3D CaseType=LinStatic F1=0 F2=0 F3=1.81614754605483 M1=0 M2=0 M3=0  
Joint=7 OutputCase=ST4D CaseType=LinStatic F1=0 F2=0 F3=0.945837334862091 M1=0 M2=0 M3=0  
Joint=7 OutputCase=ST1S CaseType=LinStatic F1=0 F2=0 F3=-2.89243764646015 M1=0 M2=0 M3=0  
Joint=7 OutputCase=ST2S CaseType=LinStatic F1=0 F2=0 F3=-1.50515809884209 M1=0 M2=0 M3=0  
Joint=7 OutputCase=ST3S CaseType=LinStatic F1=0 F2=0 F3=-1.81253082779822 M1=0 M2=0 M3=0  
Joint=7 OutputCase=ST4S CaseType=LinStatic F1=0 F2=0 F3=-0.940469546657472 M1=0 M2=0 M3=0  
Joint=7 OutputCase=QM01 CaseType=LinStatic F1=0 F2=0 F3=36.8637359486257 M1=0 M2=0 M3=0  
Joint=7 OutputCase=QM02 CaseType=LinStatic F1=0 F2=0 F3=7.54030962585525 M1=0 M2=0 M3=0  
Joint=7 OutputCase=SQMD CaseType=LinStatic F1=0 F2=0 F3=3.48199271724829 M1=0 M2=0 M3=0  
Joint=7 OutputCase=SQMS CaseType=LinStatic F1=0 F2=0 F3=-3.47573500725992 M1=0 M2=0 M3=0  
Joint=7 OutputCase=FA01 CaseType=LinStatic F1=0 F2=0 F3=-3.30763906330952 M1=0 M2=0 M3=0  
Joint=7 OutputCase=IS01 CaseType=LinStatic F1=0 F2=0 F3=-10.9236179416109 M1=0 M2=0 M3=0  
Joint=7 OutputCase=SSTS CaseType=LinStatic F1=0 F2=0 F3=-5.81104043610375 M1=0 M2=0 M3=0  
Joint=7 OutputCase=TC01 CaseType=LinStatic F1=0 F2=0 F3=-2.24743759151459E-02 M1=0 M2=0 M3=0  
Joint=7 OutputCase=TC02 CaseType=LinStatic F1=0 F2=0 F3=2.24743759151459E-02 M1=0 M2=0 M3=0  
Joint=7 OutputCase=TV01 CaseType=LinStatic F1=0 F2=0 F3=3.77802756675164E-03 M1=0 M2=0 M3=0  
Joint=7 OutputCase=TV02 CaseType=LinStatic F1=0 F2=0 F3=-3.77802756675164E-03 M1=0 M2=0 M3=0  
Joint=7 OutputCase=PPAQ CaseType=LinStatic F1=0 F2=0 F3=7.5525352706456 M1=0 M2=0 M3=0  
Joint=8 OutputCase=PPST CaseType=LinStatic F1=0 F2=0 F3=33.5263370611775 M1=0 M2=0 M3=0  
Joint=8 OutputCase=PPNS CaseType=LinStatic F1=0 F2=0 F3=28.3562202868043 M1=0 M2=0 M3=0  
Joint=8 OutputCase=ST1D CaseType=LinStatic F1=0 F2=0 F3=4.86326093300437E-03 M1=0 M2=0 M3=0  
Joint=8 OutputCase=ST2D CaseType=LinStatic F1=0 F2=0 F3=4.05483014458775E-03 M1=0 M2=0 M3=0  
Joint=8 OutputCase=ST3D CaseType=LinStatic F1=0 F2=0 F3=3.04753686755653E-03 M1=0 M2=0 M3=0  
Joint=8 OutputCase=ST4D CaseType=LinStatic F1=0 F2=0 F3=2.53966046997055E-03 M1=0 M2=0 M3=0  
Joint=8 OutputCase=ST1S CaseType=LinStatic F1=0 F2=0 F3=4.86326077019333E-03 M1=0 M2=0 M3=0  
Joint=8 OutputCase=ST2S CaseType=LinStatic F1=0 F2=0 F3=4.05483005986965E-03 M1=0 M2=0 M3=0  
Joint=8 OutputCase=ST3S CaseType=LinStatic F1=0 F2=0 F3=3.04753676553138E-03 M1=0 M2=0 M3=0  
Joint=8 OutputCase=ST4S CaseType=LinStatic F1=0 F2=0 F3=2.53145829833315E-03 M1=0 M2=0 M3=0  
Joint=8 OutputCase=QM01 CaseType=LinStatic F1=0 F2=0 F3=36.7837024356741 M1=0 M2=0 M3=0  
Joint=8 OutputCase=QM02 CaseType=LinStatic F1=0 F2=0 F3=7.52393913456971 M1=0 M2=0 M3=0  
Joint=8 OutputCase=SQMD CaseType=LinStatic F1=0 F2=0 F3=5.27290227702644E-03 M1=0 M2=0 M3=0  
Joint=8 OutputCase=SQMS CaseType=LinStatic F1=0 F2=0 F3=5.2729020813776E-03 M1=0 M2=0 M3=0  
Joint=8 OutputCase=FA01 CaseType=LinStatic F1=0 F2=0 F3=-9.30332471216905E-11 M1=0 M2=0 M3=0  
Joint=8 OutputCase=IS01 CaseType=LinStatic F1=0 F2=0 F3=-3.07230694877869E-10 M1=0 M2=0 M3=0  
Joint=8 OutputCase=SSTS CaseType=LinStatic F1=0 F2=0 F3=9.77051485326688E-03 M1=0 M2=0 M3=0  
Joint=8 OutputCase=TC01 CaseType=LinStatic F1=0 F2=0 F3=-3.78749369872369E-02 M1=0 M2=0 M3=0  
Joint=8 OutputCase=TC02 CaseType=LinStatic F1=0 F2=0 F3=3.78749369872369E-02 M1=0 M2=0 M3=0  
Joint=8 OutputCase=TV01 CaseType=LinStatic F1=0 F2=0 F3=6.36692011190753E-03 M1=0 M2=0 M3=0  
Joint=8 OutputCase=TV02 CaseType=LinStatic F1=0 F2=0 F3=-6.36692011190753E-03 M1=0 M2=0 M3=0  
Joint=8 OutputCase=PPAQ CaseType=LinStatic F1=0 F2=0 F3=7.55790962536449 M1=0 M2=0 M3=0  
Joint=9 OutputCase=PPST CaseType=LinStatic F1=0 F2=0 F3=33.5683540785848 M1=0 M2=0 M3=0  
Joint=9 OutputCase=PPNS CaseType=LinStatic F1=0 F2=0 F3=28.4185985335149 M1=0 M2=0 M3=0  
Joint=9 OutputCase=ST1D CaseType=LinStatic F1=0 F2=0 F3=-2.89243764629681 M1=0 M2=0 M3=0  
Joint=9 OutputCase=ST2D CaseType=LinStatic F1=0 F2=0 F3=-1.50515809875704 M1=0 M2=0 M3=0  
Joint=9 OutputCase=ST3D CaseType=LinStatic F1=0 F2=0 F3=-1.81253082769586 M1=0 M2=0 M3=0

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Joint=9 OutputCase=ST4D CaseType=LinStatic F1=0 F2=0 F3=-0.942823347827093 M1=0 M2=0 M3=0  
Joint=9 OutputCase=ST1S CaseType=LinStatic F1=0 F2=0 F3=2.89820920718953 M1=0 M2=0 M3=0  
Joint=9 OutputCase=ST2S CaseType=LinStatic F1=0 F2=0 F3=1.50997024014915 M1=0 M2=0 M3=0  
Joint=9 OutputCase=ST3S CaseType=LinStatic F1=0 F2=0 F3=1.81614754595265 M1=0 M2=0 M3=0  
Joint=9 OutputCase=ST4S CaseType=LinStatic F1=0 F2=0 F3=0.94347379957672 M1=0 M2=0 M3=0  
Joint=9 OutputCase=QM01 CaseType=LinStatic F1=0 F2=0 F3=36.8637359477792 M1=0 M2=0 M3=0  
Joint=9 OutputCase=QM02 CaseType=LinStatic F1=0 F2=0 F3=7.54030962568211 M1=0 M2=0 M3=0  
Joint=9 OutputCase=SQMD CaseType=LinStatic F1=0 F2=0 F3=-3.47573500706365 M1=0 M2=0 M3=0  
Joint=9 OutputCase=SQMS CaseType=LinStatic F1=0 F2=0 F3=3.48199271705233 M1=0 M2=0 M3=0  
Joint=9 OutputCase=FA01 CaseType=LinStatic F1=0 F2=0 F3=3.30763906312305 M1=0 M2=0 M3=0  
Joint=9 OutputCase=IS01 CaseType=LinStatic F1=0 F2=0 F3=10.923617940995 M1=0 M2=0 M3=0  
Joint=9 OutputCase=SSTS CaseType=LinStatic F1=0 F2=0 F3=5.82263576740461 M1=0 M2=0 M3=0  
Joint=9 OutputCase=TC01 CaseType=LinStatic F1=0 F2=0 F3=-2.24743759191941E-02 M1=0 M2=0 M3=0  
Joint=9 OutputCase=TC02 CaseType=LinStatic F1=0 F2=0 F3=2.24743759191941E-02 M1=0 M2=0 M3=0  
Joint=9 OutputCase=TV01 CaseType=LinStatic F1=0 F2=0 F3=3.77802756691502E-03 M1=0 M2=0 M3=0  
Joint=9 OutputCase=TV02 CaseType=LinStatic F1=0 F2=0 F3=-3.77802756691502E-03 M1=0 M2=0 M3=0  
Joint=9 OutputCase=PPAQ CaseType=LinStatic F1=0 F2=0 F3=7.55253527047369 M1=0 M2=0 M3=0  
Joint=10 OutputCase=PPST CaseType=LinStatic F1=0 F2=0 F3=18.7252785176575 M1=0 M2=0 M3=0  
Joint=10 OutputCase=PPNS CaseType=LinStatic F1=0 F2=0 F3=15.888695824834 M1=0 M2=0 M3=0  
Joint=10 OutputCase=ST1D CaseType=LinStatic F1=0 F2=0 F3=-3.23340061325711 M1=0 M2=0 M3=0  
Joint=10 OutputCase=ST2D CaseType=LinStatic F1=0 F2=0 F3=-1.68454657411252 M1=0 M2=0 M3=0  
Joint=10 OutputCase=ST3D CaseType=LinStatic F1=0 F2=0 F3=-2.02619347639961 M1=0 M2=0 M3=0  
Joint=10 OutputCase=ST4D CaseType=LinStatic F1=0 F2=0 F3=-1.05519102504117 M1=0 M2=0 M3=0  
Joint=10 OutputCase=ST1S CaseType=LinStatic F1=0 F2=0 F3=3.23000392542715 M1=0 M2=0 M3=0  
Joint=10 OutputCase=ST2S CaseType=LinStatic F1=0 F2=0 F3=1.6817145253121 M1=0 M2=0 M3=0  
Joint=10 OutputCase=ST3S CaseType=LinStatic F1=0 F2=0 F3=2.02406495984826 M1=0 M2=0 M3=0  
Joint=10 OutputCase=ST4S CaseType=LinStatic F1=0 F2=0 F3=1.0507848779796 M1=0 M2=0 M3=0  
Joint=10 OutputCase=QM01 CaseType=LinStatic F1=0 F2=0 F3=20.6088579677076 M1=0 M2=0 M3=0  
Joint=10 OutputCase=QM02 CaseType=LinStatic F1=0 F2=0 F3=4.21544822066746 M1=0 M2=0 M3=0  
Joint=10 OutputCase=SQMD CaseType=LinStatic F1=0 F2=0 F3=-3.88472342174635 M1=0 M2=0 M3=0  
Joint=10 OutputCase=SQMS CaseType=LinStatic F1=0 F2=0 F3=3.88104062470806 M1=0 M2=0 M3=0  
Joint=10 OutputCase=FA01 CaseType=LinStatic F1=0 F2=0 F3=3.69009031624544 M1=0 M2=0 M3=0  
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Joint=10 OutputCase=TC02 CaseType=LinStatic F1=0 F2=0 F3=-1.32266540326751E-02 M1=0 M2=0 M3=0  
Joint=10 OutputCase=TV01 CaseType=LinStatic F1=0 F2=0 F3=-2.2234505528713E-03 M1=0 M2=0 M3=0  
Joint=10 OutputCase=TV02 CaseType=LinStatic F1=0 F2=0 F3=2.2234505528713E-03 M1=0 M2=0 M3=0  
Joint=10 OutputCase=PPAQ CaseType=LinStatic F1=0 F2=0 F3=4.19413104691609 M1=0 M2=0 M3=0  
Joint=11 OutputCase=PPST CaseType=LinStatic F1=0 F2=0 F3=3.78832463685238 M1=0 M2=0 M3=0  
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Joint=11 OutputCase=ST1S CaseType=LinStatic F1=0 F2=0 F3=0.690247876995722 M1=0 M2=0 M3=0  
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Joint=11 OutputCase=SSTS CaseType=LinStatic F1=0 F2=0 F3=1.38673977261558 M1=0 M2=0 M3=0  
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Joint=11 OutputCase=TC02 CaseType=LinStatic F1=0 F2=0 F3=-3.47822183903035E-03 M1=0 M2=0 M3=0  
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Joint=11 OutputCase=TV02 CaseType=LinStatic F1=0 F2=0 F3=5.84702242284053E-04 M1=0 M2=0 M3=0  
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Joint=12 OutputCase=PPST CaseType=LinStatic F1=0 F2=0 F3=3.78945578850815 M1=0 M2=0 M3=0  
Joint=12 OutputCase=PPNS CaseType=LinStatic F1=0 F2=0 F3=3.21717320643032 M1=0 M2=0 M3=0  
Joint=12 OutputCase=ST1D CaseType=LinStatic F1=0 F2=0 F3=-0.728388492320224 M1=0 M2=0 M3=0  
Joint=12 OutputCase=ST2D CaseType=LinStatic F1=0 F2=0 F3=-0.379561743384508 M1=0 M2=0 M3=0  
Joint=12 OutputCase=ST3D CaseType=LinStatic F1=0 F2=0 F3=-0.456440815088825 M1=0 M2=0 M3=0

APPROVATO SGP

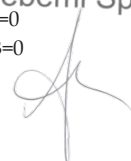
Società di Progetto  
Brebemi SpA



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Joint=12 OutputCase=ST1S CaseType=LinStatic F1=0 F2=0 F3=0.727277676099096 M1=0 M2=0 M3=0  
Joint=12 OutputCase=ST2S CaseType=LinStatic F1=0 F2=0 F3=0.378635580633028 M1=0 M2=0 M3=0  
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Joint=12 OutputCase=QM01 CaseType=LinStatic F1=0 F2=0 F3=4.17282656711507 M1=0 M2=0 M3=0  
Joint=12 OutputCase=QM02 CaseType=LinStatic F1=0 F2=0 F3=0.853532706909902 M1=0 M2=0 M3=0  
Joint=12 OutputCase=SQMD CaseType=LinStatic F1=0 F2=0 F3=-0.875080662345577 M1=0 M2=0 M3=0  
Joint=12 OutputCase=SQMS CaseType=LinStatic F1=0 F2=0 F3=0.873876280049046 M1=0 M2=0 M3=0  
Joint=12 OutputCase=FA01 CaseType=LinStatic F1=0 F2=0 F3=0.830939577522594 M1=0 M2=0 M3=0  
Joint=12 OutputCase=IS01 CaseType=LinStatic F1=0 F2=0 F3=2.74446063714275 M1=0 M2=0 M3=0  
Joint=12 OutputCase=SSTS CaseType=LinStatic F1=0 F2=0 F3=1.4611343433396 M1=0 M2=0 M3=0  
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Joint=12 OutputCase=TC02 CaseType=LinStatic F1=0 F2=0 F3=-4.32550254447973E-03 M1=0 M2=0 M3=0  
Joint=12 OutputCase=TV01 CaseType=LinStatic F1=0 F2=0 F3=-7.27133332423847E-04 M1=0 M2=0 M3=0  
Joint=12 OutputCase=TV02 CaseType=LinStatic F1=0 F2=0 F3=7.27133332423847E-04 M1=0 M2=0 M3=0  
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Joint=13 OutputCase=PPST CaseType=LinStatic F1=0 F2=0 F3=3.79042469445056 M1=0 M2=0 M3=0  
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Joint=13 OutputCase=ST2D CaseType=LinStatic F1=0 F2=0 F3=-0.399023066947917 M1=0 M2=0 M3=0  
Joint=13 OutputCase=ST3D CaseType=LinStatic F1=0 F2=0 F3=-0.47979319845625 M1=0 M2=0 M3=0  
Joint=13 OutputCase=ST4D CaseType=LinStatic F1=0 F2=0 F3=-0.249945905897808 M1=0 M2=0 M3=0  
Joint=13 OutputCase=ST1S CaseType=LinStatic F1=0 F2=0 F3=0.764320170499243 M1=0 M2=0 M3=0  
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Joint=13 OutputCase=ST3S CaseType=LinStatic F1=0 F2=0 F3=0.478957212105611 M1=0 M2=0 M3=0  
Joint=13 OutputCase=ST4S CaseType=LinStatic F1=0 F2=0 F3=0.248626286540382 M1=0 M2=0 M3=0  
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Joint=13 OutputCase=SQMD CaseType=LinStatic F1=0 F2=0 F3=-0.919835638796747 M1=0 M2=0 M3=0  
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Joint=13 OutputCase=IS01 CaseType=LinStatic F1=0 F2=0 F3=2.88435677455048 M1=0 M2=0 M3=0  
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Joint=13 OutputCase=TC01 CaseType=LinStatic F1=0 F2=0 F3=5.19483967813585E-03 M1=0 M2=0 M3=0  
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Joint=14 OutputCase=ST1D CaseType=LinStatic F1=0 F2=0 F3=-1.11516680174644 M1=0 M2=0 M3=0  
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Joint=14 OutputCase=QM01 CaseType=LinStatic F1=0 F2=0 F3=5.801281680714 M1=0 M2=0 M3=0  
Joint=14 OutputCase=QM02 CaseType=LinStatic F1=0 F2=0 F3=1.18662579832786 M1=0 M2=0 M3=0  
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Joint=14 OutputCase=SSTS CaseType=LinStatic F1=0 F2=0 F3=2.23607601088918 M1=0 M2=0 M3=0  
Joint=14 OutputCase=TC01 CaseType=LinStatic F1=0 F2=0 F3=8.42246553300149E-03 M1=0 M2=0 M3=0  
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Joint=14 OutputCase=TV01 CaseType=LinStatic F1=0 F2=0 F3=-1.41584830135857E-03 M1=0 M2=0 M3=0  
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APPROVATO SDP

Società di Progetto  
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 Joint=15 OutputCase=QM01 CaseType=LinStatic F1=-3.60820204500576E-04 F2=0 F3=3.71607186398882 M1=0 M2=0 M3=0  
 Joint=15 OutputCase=QM02 CaseType=LinStatic F1=-7.38041327393517E-05 F2=0 F3=0.760105608543169 M1=0 M2=0 M3=0  
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 Joint=15 OutputCase=TC02 CaseType=LinStatic F1=5.79314508483765E-04 F2=0 F3=-6.76416077972075E-03 M1=0 M2=0 M3=0  
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 Joint=15 OutputCase=TV02 CaseType=LinStatic F1=-3.64924078177366E-04 F2=0 F3=1.13708100228723E-03 M1=0 M2=0 M3=0  
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TABLE: "ASSEMBLED JOINT MASSES"

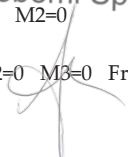
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 Joint=36 U1=0.573590358125111 U2=0.573590358125111 U3=0.573590358125111 R1=0 R2=0 R3=0  
 Joint=37 U1=0.358493973828195 U2=0.358493973828195 U3=0.358493973828195 R1=0 R2=0 R3=0  
 Joint=38 U1=0.143397589531278 U2=0.143397589531278 U3=0.143397589531278 R1=0 R2=0 R3=0


TABLE: "ELEMENT FORCES - FRAMES"

Frame=1 Station=0 OutputCase=PPST CaseType=LinStatic P=2.12689961671231E-04 V2=-3.37166827183682 V3=0 T=0 M2=0 M3=0  
 1.45519152283669E-11 FrameElem=1-1 ElemStation=0  
 Frame=1 Station=0.2 OutputCase=PPST CaseType=LinStatic P=2.12689961671231E-04 V2=-0.871668271836828 V3=0 T=0 M2=0 M3=0  
 0.424333654352813 FrameElem=1-1 ElemStation=0.2  
 Frame=1 Station=0 OutputCase=PPNS CaseType=LinStatic P=6.865127013711E-05 V2=-2.86531685572118 V3=0 T=0 M2=0 M3=0  
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APPROVATO SDP

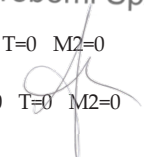
So. Co. In. Progetto  
Brebemi SpA



	Doc. N. 60236-00000-A00.doc	CODIFICA DOCUMENTO 04RCDII100000000000400A00	REV. 00	FOGLIO 191 di 310
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Frame=1 Station=0.2 OutputCase=PPNS CaseType=LinStatic P=6.865127013711E-05 V2=12.5346831442788 V3=0 T=0 M2=0 M3=-0.966936628855761  
 FrameElem=1-1 ElemStation=0.2  
 Frame=1 Station=0 OutputCase=ST1D CaseType=LinStatic P=-15.1994820414111 V2=-0.77086152182892 V3=0 T=0 M2=0 M3=-3.63797880709171E-12  
 FrameElem=1-1 ElemStation=0  
 Frame=1 Station=0.2 OutputCase=ST1D CaseType=LinStatic P=-15.1994820414111 V2=-0.77086152182892 V3=0 T=0 M2=0 M3=0.154172304362146  
 FrameElem=1-1 ElemStation=0.2  
 Frame=1 Station=0 OutputCase=ST2D CaseType=LinStatic P=-11.8744563206565 V2=-0.401292995884432 V3=0 T=0 M2=0 M3=0 FrameElem=1-1  
 ElemStation=0  
 Frame=1 Station=0.2 OutputCase=ST2D CaseType=LinStatic P=-11.8744563206565 V2=-0.401292995884432 V3=0 T=0 M2=0 M3=8.02585991768864E-02  
 FrameElem=1-1 ElemStation=0.2  
 Frame=1 Station=0 OutputCase=ST3D CaseType=LinStatic P=-9.5246754239779 V2=-0.483056315482827 V3=0 T=0 M2=0 M3=-1.81898940354586E-12  
 FrameElem=1-1 ElemStation=0  
 Frame=1 Station=0.2 OutputCase=ST3D CaseType=LinStatic P=-9.5246754239779 V2=-0.483056315482827 V3=0 T=0 M2=0 M3=9.66112630947463E-02  
 FrameElem=1-1 ElemStation=0.2  
 Frame=1 Station=0 OutputCase=ST4D CaseType=LinStatic P=-7.43778446386568 V2=-0.25136785335053 V3=0 T=0 M2=0 M3=0 FrameElem=1-1  
 ElemStation=0  
 Frame=1 Station=0.2 OutputCase=ST4D CaseType=LinStatic P=-7.43778446386568 V2=-0.25136785335053 V3=0 T=0 M2=0 M3=5.02735706701059E-02  
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 FrameElem=1-1 ElemStation=0  
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 FrameElem=1-1 ElemStation=0.2  
 Frame=1 Station=0 OutputCase=ST2S CaseType=LinStatic P=11.8755436863285 V2=0.402741316298489 V3=0 T=0 M2=0 M3=-9.09494701772928E-13  
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 Frame=1 Station=0.2 OutputCase=ST2S CaseType=LinStatic P=11.8755436863285 V2=0.402741316298489 V3=0 T=0 M2=0 M3=-8.05482632606071E-02  
 FrameElem=1-1 ElemStation=0.2  
 Frame=1 Station=0 OutputCase=ST3S CaseType=LinStatic P=9.52532458212227 V2=0.484144846879644 V3=0 T=0 M2=0 M3=0 FrameElem=1-1  
 ElemStation=0  
 Frame=1 Station=0.2 OutputCase=ST3S CaseType=LinStatic P=9.52532458212227 V2=0.484144846879644 V3=0 T=0 M2=0 M3=-9.68289693759287E-02  
 FrameElem=1-1 ElemStation=0.2  
 Frame=1 Station=0 OutputCase=ST4S CaseType=LinStatic P=7.06656563002616 V2=0.251643708303163 V3=0 T=0 M2=0 M3=1.81898940354586E-12  
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 Frame=1 Station=0.2 OutputCase=ST4S CaseType=LinStatic P=7.06656563002616 V2=0.251643708303163 V3=0 T=0 M2=0 M3=-5.03287416588136E-02  
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 Frame=1 Station=0 OutputCase=QM01 CaseType=LinStatic P=-3.60820204441836E-04 V2=-3.71607186412439 V3=0 T=0 M2=0 M3=0 FrameElem=1-1  
 ElemStation=0  
 Frame=1 Station=0.2 OutputCase=QM01 CaseType=LinStatic P=-3.60820204441836E-04 V2=-3.71607186412439 V3=0 T=0 M2=0  
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 M3=3.63797880709171E-12 FrameElem=1-1 ElemStation=0  
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 M3=0.152021121720463 FrameElem=1-1 ElemStation=0.2  
 Frame=1 Station=0 OutputCase=SQMD CaseType=LinStatic P=-16.7791677964851 V2=-0.926257844432257 V3=0 T=0 M2=0 M3=-3.63797880709171E-12  
 FrameElem=1-1 ElemStation=0  
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 FrameElem=1-1 ElemStation=0.2  
 Frame=1 Station=0 OutputCase=FA01 CaseType=LinStatic P=8.67750000278465 V2=0.88081683582277 V3=0 T=0 M2=0 M3=-7.27595761418343E-12  
 FrameElem=1-1 ElemStation=0  
 Frame=1 Station=0.2 OutputCase=FA01 CaseType=LinStatic P=8.67750000278465 V2=0.88081683582277 V3=0 T=0 M2=0 M3=-0.17616336717183  
 FrameElem=1-1 ElemStation=0.2  
 Frame=1 Station=0 OutputCase=IS01 CaseType=LinStatic P=32.6225000107661 V2=2.90930606308393 V3=0 T=0 M2=0 M3=2.91038304567337E-11  
 FrameElem=1-1 ElemStation=0  
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 FrameElem=1-1 ElemStation=0.2  
 Frame=1 Station=0 OutputCase=SSTS CaseType=LinStatic P=30.5385406212881 V2=1.55218616919592 V3=0 T=0 M2=0 M3=0 FrameElem=1-1  
 ElemStation=0  
 Frame=1 Station=0.2 OutputCase=SSTS CaseType=LinStatic P=30.5385406212881 V2=1.55218616919592 V3=0 T=0 M2=0 M3=-0.310437233839184  
 FrameElem=1-1 ElemStation=0.2  
 Frame=1 Station=0 OutputCase=TC01 CaseType=LinStatic P=-5.79314516812701E-04 V2=-6.76416078090369E-03 V3=0 T=0 M2=0  
 M3=1.4210854715202E-14 FrameElem=1-1 ElemStation=0  
 Frame=1 Station=0.2 OutputCase=TC01 CaseType=LinStatic P=-5.79314516812701E-04 V2=-6.76416078090369E-03 V3=0 T=0 M2=0  
 M3=1.35283215619495E-03 FrameElem=1-1 ElemStation=0.2

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Bremi SpA

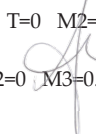





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 Frame=1 Station=0 OutputCase=TV01 CaseType=LinStatic P=3.64924078098738E-04 V2=1.13708100229815E-03 V3=0 T=0 M2=0 M3=-3.5527136788005E-15 FrameElem=1-1 ElemStation=0  
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 Frame=1 Station=0 OutputCase=TV02 CaseType=LinStatic P=-3.64924078098738E-04 V2=-1.13708100229815E-03 V3=0 T=0 M2=0 M3=3.5527136788005E-15 FrameElem=1-1 ElemStation=0  
 Frame=1 Station=0.2 OutputCase=TV02 CaseType=LinStatic P=-3.64924078098738E-04 V2=-1.13708100229815E-03 V3=0 T=0 M2=0 M3=2.27416200463182E-04 FrameElem=1-1 ElemStation=0.2  
 Frame=1 Station=0 OutputCase=PPAQ CaseType=LinStatic P=-1.07441410424514E-04 V2=-0.753248988912674 V3=0 T=0 M2=0 M3=0 FrameElem=1-1 ElemStation=0  
 Frame=1 Station=0.2 OutputCase=PPAQ CaseType=LinStatic P=-1.07441410424514E-04 V2=-0.753248988912674 V3=0 T=0 M2=0 M3=0.150649797782535 FrameElem=1-1 ElemStation=0.2  
 Frame=2 Station=0 OutputCase=PPST CaseType=LinStatic P=2.12689961664125E-04 V2=-6.13749375380576 V3=0 T=0 M2=0 M3=0.424333654344082 FrameElem=2-1 ElemStation=0  
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 Frame=2 Station=0 OutputCase=ST1D CaseType=LinStatic P=-15.1994820414111 V2=-1.88386538153281 V3=0 T=0 M2=0 M3=0.154172304362874 FrameElem=2-1 ElemStation=0  
 Frame=2 Station=0.1125 OutputCase=ST1D CaseType=LinStatic P=-15.1994820414111 V2=-1.88386538153281 V3=0 T=0 M2=0 M3=0.366107159785316 FrameElem=2-1 ElemStation=0.1125  
 Frame=2 Station=0 OutputCase=ST2D CaseType=LinStatic P=-11.8744563204236 V2=-0.980718006758252 V3=0 T=0 M2=0 M3=0.080258599175977 FrameElem=2-1 ElemStation=0  
 Frame=2 Station=0.1125 OutputCase=ST2D CaseType=LinStatic P=-11.8744563204236 V2=-0.980718006758252 V3=0 T=0 M2=0 M3=0.190589374936281 FrameElem=2-1 ElemStation=0.1125  
 Frame=2 Station=0 OutputCase=ST3D CaseType=LinStatic P=-9.52467542374507 V2=-1.18051432623179 V3=0 T=0 M2=0 M3=9.66112630958378E-02 FrameElem=2-1 ElemStation=0  
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 Frame=2 Station=0 OutputCase=ST4D CaseType=LinStatic P=-7.43778446363285 V2=-0.614316675011651 V3=0 T=0 M2=0 M3=5.02735706709245E-02 FrameElem=2-1 ElemStation=0  
 Frame=2 Station=0.1125 OutputCase=ST4D CaseType=LinStatic P=-7.43778446363285 V2=-0.614316675011651 V3=0 T=0 M2=0 M3=0.119384196609735 FrameElem=2-1 ElemStation=0.1125  
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 Frame=2 Station=0.1125 OutputCase=ST1S CaseType=LinStatic P=15.2005179673433 V2=1.8877654025564 V3=0 T=0 M2=0 M3=-0.36689332794158 FrameElem=2-1 ElemStation=0.1125  
 Frame=2 Station=0 OutputCase=ST2S CaseType=LinStatic P=11.8755436865613 V2=0.983969718567096 V3=0 T=0 M2=0 M3=-8.05482632640633E-02 FrameElem=2-1 ElemStation=0  
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 Frame=2 Station=0.1125 OutputCase=ST3S CaseType=LinStatic P=9.52532458165661 V2=1.18295825392124 V3=0 T=0 M2=0 M3=-0.229911772937158 FrameElem=2-1 ElemStation=0.1125  
 Frame=2 Station=0 OutputCase=ST4S CaseType=LinStatic P=7.06656562979333 V2=0.614811224135337 V3=0 T=0 M2=0 M3=-0.050328741658177 FrameElem=2-1 ElemStation=0  
 Frame=2 Station=0.1125 OutputCase=ST4S CaseType=LinStatic P=7.06656562979333 V2=0.614811224135337 V3=0 T=0 M2=0 M3=-0.119495004373403 FrameElem=2-1 ElemStation=0.1125  
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 Frame=2 Station=0.1125 OutputCase=QM01 CaseType=LinStatic P=-3.60820204434731E-04 V2=-9.51735354517587 V3=0 T=0 M2=0 M3=1.81391664668336 FrameElem=2-1 ElemStation=0.1125  
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 Frame=2 Station=0 OutputCase=SQMD CaseType=LinStatic P=-16.7791677964851 V2=-2.2636220913846 V3=0 T=0 M2=0 M3=0.185251568876993 FrameElem=2-1 ElemStation=0

Società di Progetto  
Bresbeni SpA

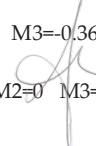


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Frame=2 Station=0.1125 OutputCase=SQMD CaseType=LinStatic P=-16.7791677964851 V2=-2.2636220913846 V3=0 T=0 M2=0  
 M3=0.439909054157761 FrameElem=2-1 ElemStation=0.1125  
 Frame=2 Station=0 OutputCase=SQMS CaseType=LinStatic P=16.7802072130144 V2=2.2678506183438 V3=0 T=0 M2=0 M3=-0.185628248136709  
 FrameElem=2-1 ElemStation=0  
 Frame=2 Station=0.1125 OutputCase=SQMS CaseType=LinStatic P=16.7802072130144 V2=2.2678506183438 V3=0 T=0 M2=0 M3=-0.440761442700387  
 FrameElem=2-1 ElemStation=0.1125  
 Frame=2 Station=0 OutputCase=FA01 CaseType=LinStatic P=8.67750000255182 V2=2.15252893959405 V3=0 T=0 M2=0 M3=-0.176163367168556  
 FrameElem=2-1 ElemStation=0  
 Frame=2 Station=0.1125 OutputCase=FA01 CaseType=LinStatic P=8.67750000255182 V2=2.15252893959405 V3=0 T=0 M2=0 M3=-0.418322872872887  
 FrameElem=2-1 ElemStation=0.1125  
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 Frame=2 Station=0.1125 OutputCase=IS01 CaseType=LinStatic P=32.6225000098348 V2=7.1096579269506 V3=0 T=0 M2=0 M3=-1.3816977293769  
 FrameElem=2-1 ElemStation=0.1125  
 Frame=2 Station=0 OutputCase=SSTS CaseType=LinStatic P=30.5385406222194 V2=3.79260763025377 V3=0 T=0 M2=0 M3=-0.31043723383118  
 FrameElem=2-1 ElemStation=0  
 Frame=2 Station=0.1125 OutputCase=SSTS CaseType=LinStatic P=30.5385406222194 V2=3.79260763025377 V3=0 T=0 M2=0 M3=-0.73710559223473  
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 M3=3.0613276165866E-03 FrameElem=2-1 ElemStation=0.1125  
 Frame=2 Station=0 OutputCase=TC02 CaseType=LinStatic P=5.79314516812701E-04 V2=1.51866263154261E-02 V3=0 T=0 M2=0 M3=-  
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 Frame=2 Station=0 OutputCase=TV01 CaseType=LinStatic P=3.64924078084528E-04 V2=2.55292930381756E-03 V3=0 T=0 M2=0 M3=-  
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 Frame=2 Station=0.1125 OutputCase=TV01 CaseType=LinStatic P=3.64924078084528E-04 V2=2.55292930381756E-03 V3=0 T=0 M2=0 M3=-  
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 Frame=2 Station=0 OutputCase=TV02 CaseType=LinStatic P=-3.64924078084528E-04 V2=-2.55292930381756E-03 V3=0 T=0 M2=0  
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 Frame=2 Station=0.1125 OutputCase=TV02 CaseType=LinStatic P=-3.64924078084528E-04 V2=-2.55292930381756E-03 V3=0 T=0 M2=0  
 M3=5.14620747142658E-04 FrameElem=2-1 ElemStation=0.1125  
 Frame=2 Station=0 OutputCase=PPAQ CaseType=LinStatic P=-1.07441410420961E-04 V2=-1.93054852541536 V3=0 T=0 M2=0  
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 Frame=2 Station=0.1125 OutputCase=PPAQ CaseType=LinStatic P=-1.07441410420961E-04 V2=-1.93054852541536 V3=0 T=0 M2=0  
 M3=0.367836506888125 FrameElem=2-1 ElemStation=0.1125  
 Frame=3 Station=0 OutputCase=PPST CaseType=LinStatic P=2.12689959965928E-04 V2=-8.5216684488114 V3=0 T=0 M2=0 M3=1.03570013910939  
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 Frame=3 Station=0.1125 OutputCase=PPST CaseType=LinStatic P=2.12689959965928E-04 V2=-7.1154184488114 V3=0 T=0 M2=0  
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 FrameElem=3-1 ElemStation=0  
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 FrameElem=3-1 ElemStation=0.1125

APPROVATO SDR

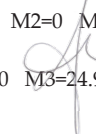
Società di Progetto  
**Bredemi SpA**



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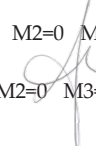
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 Frame=5 Station=0.1125 OutputCase=ST4D CaseType=LinStatic P=-4.9877804685384 V2=-0.380563801445533 V3=0 T=0 M2=0 M3=-  
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 Frame=5 Station=0 OutputCase=ST1S CaseType=LinStatic P=-7.58647593297064 V2=0.687860430334695 V3=0 T=0 M2=0 M3=12.1543935020072  
 FrameElem=5-1 ElemStation=0  
 Frame=5 Station=0.1125 OutputCase=ST1S CaseType=LinStatic P=-7.58647593297064 V2=0.687860430334695 V3=0 T=0 M2=0 M3=12.0770092035946  
 FrameElem=5-1 ElemStation=0.1125  
 Frame=5 Station=0 OutputCase=ST2S CaseType=LinStatic P=-7.96318448148668 V2=0.613658936752472 V3=0 T=0 M2=0 M3=7.28956332997222  
 FrameElem=5-1 ElemStation=0  
 Frame=5 Station=0.1125 OutputCase=ST2S CaseType=LinStatic P=-7.96318448148668 V2=0.613658936752472 V3=0 T=0 M2=0 M3=7.22052669958757  
 FrameElem=5-1 ElemStation=0.1125  
 Frame=5 Station=0 OutputCase=ST3S CaseType=LinStatic P=-4.75402521435171 V2=0.431044118333375 V3=0 T=0 M2=0 M3=7.61648671754119  
 FrameElem=5-1 ElemStation=0  
 Frame=5 Station=0.1125 OutputCase=ST3S CaseType=LinStatic P=-4.75402521435171 V2=0.431044118333375 V3=0 T=0 M2=0 M3=7.56799425422869  
 FrameElem=5-1 ElemStation=0.1125  
 Frame=5 Station=0 OutputCase=ST4S CaseType=LinStatic P=-4.62292075739242 V2=0.382246751949424 V3=0 T=0 M2=0 M3=4.55164461476079  
 FrameElem=5-1 ElemStation=0  
 Frame=5 Station=0.1125 OutputCase=ST4S CaseType=LinStatic P=-4.62292075739242 V2=0.382246751949424 V3=0 T=0 M2=0 M3=4.50864185516648  
 FrameElem=5-1 ElemStation=0.1125  
 Frame=5 Station=0 OutputCase=QM01 CaseType=LinStatic P=5.28484077572293 V2=75.8644451349974 V3=0 T=0 M2=0 M3=23.9215442508139  
 FrameElem=5-1 ElemStation=0  
 Frame=5 Station=0.1125 OutputCase=QM01 CaseType=LinStatic P=5.28484077572293 V2=75.8644451349974 V3=0 T=0 M2=0 M3=15.3867941731267  
 FrameElem=5-1 ElemStation=0.1125  
 Frame=5 Station=0 OutputCase=QM02 CaseType=LinStatic P=1.08099015867054 V2=15.5177274139714 V3=0 T=0 M2=0 M3=4.89304314220863  
 FrameElem=5-1 ElemStation=0  
 Frame=5 Station=0.1125 OutputCase=QM02 CaseType=LinStatic P=1.08099015867054 V2=15.5177274139714 V3=0 T=0 M2=0 M3=3.14729880813684  
 FrameElem=5-1 ElemStation=0.1125  
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 FrameElem=5-1 ElemStation=0

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Frame=5 Station=0.1125 OutputCase=SQMD CaseType=LinStatic P=-7.61203337553889 V2=-0.722907069430221 V3=0 T=0 M2=0 M3=-11.2347953629123 FrameElem=5-1 ElemStation=0.1125  
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 Frame=5 Station=0 OutputCase=TC01 CaseType=LinStatic P=8.48507073739748 V2=-2.81851903748702E-02 V3=0 T=0 M2=0 M3=-10.515363188457 FrameElem=5-1 ElemStation=0  
 Frame=5 Station=0.1125 OutputCase=TC01 CaseType=LinStatic P=8.48507073739748 V2=-2.81851903748702E-02 V3=0 T=0 M2=0 M3=-10.5121923545399 FrameElem=5-1 ElemStation=0.1125  
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 Frame=6 Station=0 OutputCase=ST2D CaseType=LinStatic P=-7.96318448503735 V2=-2.28933853943181 V3=0 T=0 M2=0 M3=-4.96968974036599 FrameElem=6-1 ElemStation=0  
 Frame=6 Station=0.5 OutputCase=ST2D CaseType=LinStatic P=-7.96318448503735 V2=-2.28933853943181 V3=0 T=0 M2=0 M3=-3.82502047065009 FrameElem=6-1 ElemStation=0.5  
 Frame=6 Station=1 OutputCase=ST2D CaseType=LinStatic P=-7.96318448503735 V2=-2.28933853943181 V3=0 T=0 M2=0 M3=-2.68035120093418 FrameElem=6-1 ElemStation=1  
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Frame=6 Station=1 OutputCase=ST3D CaseType=LinStatic P=-4.75402521755314 V2=-2.45057333977184 V3=0 T=0 M2=0 M3=-3.42573264926659  
FrameElem=6-1 ElemStation=1  
Frame=6 Station=0 OutputCase=ST4D CaseType=LinStatic P=-4.98778046818916 V2=-1.4339810303004 V3=0 T=0 M2=0 M3=-3.11296305239944  
FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=ST4D CaseType=LinStatic P=-4.98778046818916 V2=-1.4339810303004 V3=0 T=0 M2=0 M3=-2.39597253724924  
FrameElem=6-1 ElemStation=0.5  
Frame=6 Station=1 OutputCase=ST4D CaseType=LinStatic P=-4.98778046818916 V2=-1.4339810303004 V3=0 T=0 M2=0 M3=-1.67898202209904  
FrameElem=6-1 ElemStation=1  
Frame=6 Station=0 OutputCase=ST1S CaseType=LinStatic P=-7.58647593233036 V2=3.92126104374074 V3=0 T=0 M2=0 M3=12.0770092035909  
FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=ST1S CaseType=LinStatic P=-7.58647593233036 V2=3.92126104374074 V3=0 T=0 M2=0 M3=10.1163786817206  
FrameElem=6-1 ElemStation=0.5  
Frame=6 Station=1 OutputCase=ST1S CaseType=LinStatic P=-7.58647593233036 V2=3.92126104374074 V3=0 T=0 M2=0 M3=8.15574815985019  
FrameElem=6-1 ElemStation=1  
Frame=6 Station=0 OutputCase=ST2S CaseType=LinStatic P=-7.9631844809046 V2=2.2982055109278 V3=0 T=0 M2=0 M3=7.22052669959021  
FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=ST2S CaseType=LinStatic P=-7.9631844809046 V2=2.2982055109278 V3=0 T=0 M2=0 M3=6.07142394412631  
FrameElem=6-1 ElemStation=0.5  
Frame=6 Station=1 OutputCase=ST2S CaseType=LinStatic P=-7.9631844809046 V2=2.2982055109278 V3=0 T=0 M2=0 M3=4.92232118866241  
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Frame=6 Station=0 OutputCase=ST3S CaseType=LinStatic P=-4.75402521411888 V2=2.45723759484463 V3=0 T=0 M2=0 M3=7.56799425422423  
FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=ST3S CaseType=LinStatic P=-4.75402521411888 V2=2.45723759484463 V3=0 T=0 M2=0 M3=6.33937545680192  
FrameElem=6-1 ElemStation=0.5  
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FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=ST4S CaseType=LinStatic P=-4.62292075727601 V2=1.43479969751297 V3=0 T=0 M2=0 M3=3.7912420064099  
FrameElem=6-1 ElemStation=0.5  
Frame=6 Station=1 OutputCase=ST4S CaseType=LinStatic P=-4.62292075727601 V2=1.43479969751297 V3=0 T=0 M2=0 M3=3.07384215765342  
FrameElem=6-1 ElemStation=1  
Frame=6 Station=0 OutputCase=QM01 CaseType=LinStatic P=5.28484077572293 V2=55.2555871662044 V3=0 T=0 M2=0 M3=15.3867941731078  
FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=QM01 CaseType=LinStatic P=5.28484077572293 V2=55.2555871662044 V3=0 T=0 M2=0 M3=-12.2409994099944  
FrameElem=6-1 ElemStation=0.5  
Frame=6 Station=1 OutputCase=QM01 CaseType=LinStatic P=5.28484077572293 V2=55.2555871662044 V3=0 T=0 M2=0 M3=-39.8687929930966  
FrameElem=6-1 ElemStation=1  
Frame=6 Station=0 OutputCase=QM02 CaseType=LinStatic P=1.08099015867054 V2=11.3022791930889 V3=0 T=0 M2=0 M3=3.14729880813684  
FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=QM02 CaseType=LinStatic P=1.08099015867054 V2=11.3022791930889 V3=0 T=0 M2=0 M3=-2.50384078840762  
FrameElem=6-1 ElemStation=0.5  
Frame=6 Station=1 OutputCase=QM02 CaseType=LinStatic P=1.08099015867054 V2=11.3022791930889 V3=0 T=0 M2=0 M3=-8.15498038495207  
FrameElem=6-1 ElemStation=1  
Frame=6 Station=0 OutputCase=SQMD CaseType=LinStatic P=-7.61203337647021 V2=-4.60394769423874 V3=0 T=0 M2=0 M3=-11.2347953629178  
FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=SQMD CaseType=LinStatic P=-7.61203337647021 V2=-4.60394769423874 V3=0 T=0 M2=0 M3=-8.93282151579842  
FrameElem=6-1 ElemStation=0.5  
Frame=6 Station=1 OutputCase=SQMD CaseType=LinStatic P=-7.61203337647021 V2=-4.60394769423874 V3=0 T=0 M2=0 M3=-6.63084766867905  
FrameElem=6-1 ElemStation=1  
Frame=6 Station=0 OutputCase=SQMS CaseType=LinStatic P=-7.61203337041661 V2=4.61547830640484 V3=0 T=0 M2=0 M3=14.1617843632157  
FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=SQMS CaseType=LinStatic P=-7.61203337041661 V2=4.61547830640484 V3=0 T=0 M2=0 M3=11.8540452100133  
FrameElem=6-1 ElemStation=0.5  
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FrameElem=6-1 ElemStation=1  
Frame=6 Station=0 OutputCase=FA01 CaseType=LinStatic P=1.57160684466362E-09 V2=3.35653272503805 V3=0 T=0 M2=0 M3=10.0207045135348  
FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=FA01 CaseType=LinStatic P=1.57160684466362E-09 V2=3.35653272503805 V3=0 T=0 M2=0 M3=8.34243815101581  
FrameElem=6-1 ElemStation=0.5  
Frame=6 Station=1 OutputCase=FA01 CaseType=LinStatic P=1.57160684466362E-09 V2=3.35653272503805 V3=0 T=0 M2=0 M3=6.66417178849679  
FrameElem=6-1 ElemStation=1  
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FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=IS01 CaseType=LinStatic P=5.82076609134674E-09 V2=11.5949093994859 V3=0 T=0 M2=0 M3=28.3159820413312  
FrameElem=6-1 ElemStation=0.5

Frame=6 Station=1 OutputCase=IS01 CaseType=LinStatic P=5.82076609134674E-09 V2=11.5949093994859 V3=0 T=0 M2=0 M3=22.5185273415882  
FrameElem=6-1 ElemStation=1  
Frame=6 Station=0 OutputCase=SSTS CaseType=LinStatic P=-15.2415795252891 V2=7.8779940212662 V3=0 T=0 M2=0 M3=24.2632676680714  
FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=SSTS CaseType=LinStatic P=-15.2415795252891 V2=7.8779940212662 V3=0 T=0 M2=0 M3=20.3242706574383  
FrameElem=6-1 ElemStation=0.5  
Frame=6 Station=1 OutputCase=SSTS CaseType=LinStatic P=-15.2415795252891 V2=7.8779940212662 V3=0 T=0 M2=0 M3=16.3852736468052  
FrameElem=6-1 ElemStation=1  
Frame=6 Station=0 OutputCase=TC01 CaseType=LinStatic P=8.48507073739748 V2=-0.041411844412238 V3=0 T=0 M2=0 M3=-10.5121923545398  
FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=TC01 CaseType=LinStatic P=8.48507073739748 V2=-0.041411844412238 V3=0 T=0 M2=0 M3=-10.4914864323337  
FrameElem=6-1 ElemStation=0.5  
Frame=6 Station=1 OutputCase=TC01 CaseType=LinStatic P=8.48507073739748 V2=-0.041411844412238 V3=0 T=0 M2=0 M3=-10.4707805101276  
FrameElem=6-1 ElemStation=1  
Frame=6 Station=0 OutputCase=TC02 CaseType=LinStatic P=-8.48507073739748 V2=0.041411844412238 V3=0 T=0 M2=0 M3=10.5121923545398  
FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=TC02 CaseType=LinStatic P=-8.48507073739748 V2=0.041411844412238 V3=0 T=0 M2=0 M3=10.4914864323337  
FrameElem=6-1 ElemStation=0.5  
Frame=6 Station=1 OutputCase=TC02 CaseType=LinStatic P=-8.48507073739748 V2=0.041411844412238 V3=0 T=0 M2=0 M3=10.4707805101276  
FrameElem=6-1 ElemStation=1  
Frame=6 Station=0 OutputCase=TV01 CaseType=LinStatic P=-5.34494915833313 V2=6.96148762275683E-03 V3=0 T=0 M2=0 M3=1.76713928117452  
FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=TV01 CaseType=LinStatic P=-5.34494915833313 V2=6.96148762275683E-03 V3=0 T=0 M2=0 M3=1.76365853736314  
FrameElem=6-1 ElemStation=0.5  
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FrameElem=6-1 ElemStation=1  
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FrameElem=6-1 ElemStation=0  
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FrameElem=6-1 ElemStation=0.5  
Frame=6 Station=1 OutputCase=TV02 CaseType=LinStatic P=5.34494915833313 V2=-6.96148762275683E-03 V3=0 T=0 M2=0 M3=-1.7601779355176  
FrameElem=6-1 ElemStation=1  
Frame=6 Station=0 OutputCase=PPAQ CaseType=LinStatic P=1.57366671864674 V2=-8.66850991672254 V3=0 T=0 M2=0 M3=-1.81359503167732  
FrameElem=6-1 ElemStation=0  
Frame=6 Station=0.5 OutputCase=PPAQ CaseType=LinStatic P=1.57366671864674 V2=-3.66850991672254 V3=0 T=0 M2=0 M3=1.27065992668395  
FrameElem=6-1 ElemStation=0.5  
Frame=6 Station=1 OutputCase=PPAQ CaseType=LinStatic P=1.57366671864674 V2=1.33149008327746 V3=0 T=0 M2=0 M3=1.85491488504522  
FrameElem=6-1 ElemStation=1  
Frame=7 Station=0 OutputCase=PPST CaseType=LinStatic P=-3.11521518982153 V2=4.26316853036406 V3=0 T=0 M2=0 M3=-21.2978670400917  
FrameElem=7-1 ElemStation=0  
Frame=7 Station=0.5 OutputCase=PPST CaseType=LinStatic P=-3.11521518982153 V2=10.5131685303641 V3=0 T=0 M2=0 M3=-24.9919513052737  
FrameElem=7-1 ElemStation=0.5  
Frame=7 Station=1 OutputCase=PPST CaseType=LinStatic P=-3.11521518982153 V2=16.7631685303641 V3=0 T=0 M2=0 M3=-31.8110355704557  
FrameElem=7-1 ElemStation=1  
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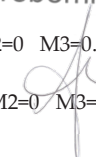
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Società di Progetto  
 Bredem SpA



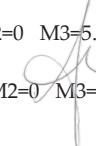


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FrameElem=8-1 ElemStation=1  
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FrameElem=8-1 ElemStation=0  
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FrameElem=8-1 ElemStation=0.5  
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FrameElem=8-1 ElemStation=1  
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FrameElem=8-1 ElemStation=0  
Frame=8 Station=0.5 OutputCase=SQMD CaseType=LinStatic P=-7.61203337623738 V2=-8.09121331376355 V3=0 T=0 M2=0 M3=5.50069939969035  
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FrameElem=8-1 ElemStation=0.5  
Frame=8 Station=1 OutputCase=SQMS CaseType=LinStatic P=-7.61203337064944 V2=8.08594041158449 V3=0 T=0 M2=0 M3=-6.63084766843986  
FrameElem=8-1 ElemStation=1  
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 FrameElem=8-1 ElemStation=1  
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 FrameElem=9-1 ElemStation=0  
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 FrameElem=9-1 ElemStation=0  
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 FrameElem=9-1 ElemStation=0.5

Società di Progetto  
 Bredemi SpA

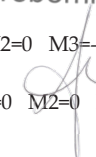


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FrameElem=9-1 ElemStation=1  
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FrameElem=9-1 ElemStation=0  
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FrameElem=9-1 ElemStation=0.5  
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FrameElem=9-1 ElemStation=0.5  
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FrameElem=9-1 ElemStation=1  
Frame=9 Station=0 OutputCase=ST2S CaseType=LinStatic P=-7.96318448096281 V2=2.28933853956005 V3=0 T=0 M2=0 M3=-2.68035120081504  
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Frame=9 Station=0.5 OutputCase=ST2S CaseType=LinStatic P=-7.96318448096281 V2=2.28933853956005 V3=0 T=0 M2=0 M3=-3.82502047059506  
FrameElem=9-1 ElemStation=0.5  
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FrameElem=9-1 ElemStation=0  
Frame=9 Station=0.5 OutputCase=ST4S CaseType=LinStatic P=-4.62292075736332 V2=1.42926398629561 V3=0 T=0 M2=0 M3=-2.38879686553787  
FrameElem=9-1 ElemStation=0.5  
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Frame=9 Station=0 OutputCase=QM01 CaseType=LinStatic P=5.28484077572294 V2=-55.2555871658406 V3=0 T=0 M2=0 M3=-39.8687929926527  
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Frame=9 Station=0.5 OutputCase=QM02 CaseType=LinStatic P=1.08099015867054 V2=-11.3022791930125 V3=0 T=0 M2=0 M3=-2.50384078835486  
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FrameElem=9-1 ElemStation=0  
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FrameElem=9-1 ElemStation=1  
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 FrameElem=10-1 ElemStation=0  
 Frame=10 Station=0.1125 OutputCase=ST2D CaseType=LinStatic P=-7.96318448428065 V2=-0.613658936927095 V3=0 T=0 M2=0  
 M3=7.28956332999951 FrameElem=10-1 ElemStation=0.1125  
 Frame=10 Station=0 OutputCase=ST3D CaseType=LinStatic P=-4.75402521714568 V2=-0.43104411859531 V3=0 T=0 M2=0 M3=7.56799425424833  
 FrameElem=10-1 ElemStation=0  
 Frame=10 Station=0.1125 OutputCase=ST3D CaseType=LinStatic P=-4.75402521714568 V2=-0.43104411859531 V3=0 T=0 M2=0  
 M3=7.61648671759031 FrameElem=10-1 ElemStation=0.1125  
 Frame=10 Station=0 OutputCase=ST4D CaseType=LinStatic P=-4.98778046760708 V2=-0.384343652753159 V3=0 T=0 M2=0 M3=4.5227290465009  
 FrameElem=10-1 ElemStation=0  
 Frame=10 Station=0.1125 OutputCase=ST4D CaseType=LinStatic P=-4.98778046760708 V2=-0.384343652753159 V3=0 T=0 M2=0  
 M3=4.56596770743563 FrameElem=10-1 ElemStation=0.1125  
 Frame=10 Station=0 OutputCase=ST1S CaseType=LinStatic P=-7.58647593390197 V2=0.680622296757065 V3=0 T=0 M2=0 M3=-9.377412182017  
 FrameElem=10-1 ElemStation=0  
 Frame=10 Station=0.1125 OutputCase=ST1S CaseType=LinStatic P=-7.58647593390197 V2=0.680622296757065 V3=0 T=0 M2=0 M3=-  
 9.45398219040217 FrameElem=10-1 ElemStation=0.1125

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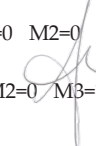





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Frame=10 Station=0 OutputCase=ST2S CaseType=LinStatic P=-7.96318448195234 V2=0.60762401422835 V3=0 T=0 M2=0 M3=-4.96968974037554  
 FrameElem=10-1 ElemStation=0  
 Frame=10 Station=0.1125 OutputCase=ST2S CaseType=LinStatic P=-7.96318448195234 V2=0.60762401422835 V3=0 T=0 M2=0 M3=-5.03804744197623 FrameElem=10-1 ElemStation=0.1125  
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 FrameElem=10-1 ElemStation=0  
 Frame=10 Station=0.1125 OutputCase=ST3S CaseType=LinStatic P=-4.75402521481737 V2=0.426508380041923 V3=0 T=0 M2=0 M3=-5.92428818181907 FrameElem=10-1 ElemStation=0.1125  
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 FrameElem=10-1 ElemStation=0  
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 FrameElem=10-1 ElemStation=0  
 Frame=10 Station=0.1125 OutputCase=QM01 CaseType=LinStatic P=5.28484077572293 V2=-75.8644451338332 V3=0 T=0 M2=0 M3=23.921544250744  
 FrameElem=10-1 ElemStation=0.1125  
 Frame=10 Station=0 OutputCase=QM02 CaseType=LinStatic P=1.08099015867054 V2=-15.5177274136804 V3=0 T=0 M2=0 M3=3.14729880815503  
 FrameElem=10-1 ElemStation=0  
 Frame=10 Station=0.1125 OutputCase=QM02 CaseType=LinStatic P=1.08099015867054 V2=-15.5177274136804 V3=0 T=0 M2=0 M3=4.89304314219407 FrameElem=10-1 ElemStation=0.1125  
 Frame=10 Station=0 OutputCase=SQMD CaseType=LinStatic P=-7.61203337460756 V2=-0.730754885007627 V3=0 T=0 M2=0 M3=14.1617843632666  
 FrameElem=10-1 ElemStation=0  
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 FrameElem=10-1 ElemStation=0  
 Frame=10 Station=0.1125 OutputCase=SQMS CaseType=LinStatic P=-7.6120333718136 V2=0.722907069837675 V3=0 T=0 M2=0 M3=-11.3161224083291 FrameElem=10-1 ElemStation=0.1125  
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 Frame=10 Station=0.1125 OutputCase=FA01 CaseType=LinStatic P=4.65661287307739E-10 V2=-0.333557590958662 V3=0 T=0 M2=0 M3=-9.9831792846293 FrameElem=10-1 ElemStation=0.1125  
 Frame=10 Station=0 OutputCase=IS01 CaseType=LinStatic P=3.72529029846191E-09 V2=-0.592605377780274 V3=0 T=0 M2=0 M3=-34.1134367413033  
 FrameElem=10-1 ElemStation=0  
 Frame=10 Station=0.1125 OutputCase=IS01 CaseType=LinStatic P=3.72529029846191E-09 V2=-0.592605377780274 V3=0 T=0 M2=0 M3=-34.046768636303 FrameElem=10-1 ElemStation=0.1125  
 Frame=10 Station=0 OutputCase=SSTS CaseType=LinStatic P=-15.2415795270354 V2=1.36740153876599 V3=0 T=0 M2=0 M3=-18.8396529281745  
 FrameElem=10-1 ElemStation=0  
 Frame=10 Station=0.1125 OutputCase=SSTS CaseType=LinStatic P=-15.2415795270354 V2=1.36740153876599 V3=0 T=0 M2=0 M3=-18.9934856012856 FrameElem=10-1 ElemStation=0.1125  
 Frame=10 Station=0 OutputCase=TC01 CaseType=LinStatic P=8.48507073739742 V2=2.81851903766892E-02 V3=0 T=0 M2=0 M3=-10.5121923545299  
 FrameElem=10-1 ElemStation=0  
 Frame=10 Station=0.1125 OutputCase=TC01 CaseType=LinStatic P=8.48507073739742 V2=2.81851903766892E-02 V3=0 T=0 M2=0 M3=-10.5153631884473 FrameElem=10-1 ElemStation=0.1125  
 Frame=10 Station=0 OutputCase=TC02 CaseType=LinStatic P=-8.48507073739742 V2=-2.81851903766892E-02 V3=0 T=0 M2=0 M3=10.5121923545299  
 FrameElem=10-1 ElemStation=0  
 Frame=10 Station=0.1125 OutputCase=TC02 CaseType=LinStatic P=-8.48507073739742 V2=-2.81851903766892E-02 V3=0 T=0 M2=0 M3=10.5153631884473 FrameElem=10-1 ElemStation=0.1125  
 Frame=10 Station=0 OutputCase=TV01 CaseType=LinStatic P=-5.34494915833311 V2=-4.73803706992726E-03 V3=0 T=0 M2=0 M3=1.76713928117446  
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 FrameElem=10-1 ElemStation=0  
 Frame=10 Station=0.1125 OutputCase=TV02 CaseType=LinStatic P=5.34494915833311 V2=4.73803706992726E-03 V3=0 T=0 M2=0 M3=-1.76767231034483 FrameElem=10-1 ElemStation=0.1125  
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 FrameElem=10-1 ElemStation=0  
 Frame=10 Station=0.1125 OutputCase=PPAQ CaseType=LinStatic P=1.57366671864674 V2=4.47437886998523 V3=0 T=0 M2=0 M3=-2.31696265452701 FrameElem=10-1 ElemStation=0.1125  
 Frame=11 Station=0 OutputCase=PPST CaseType=LinStatic P=-3.11521518982149 V2=-46.4388757636771 V3=0 T=0 M2=0 M3=15.1609441340115  
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 FrameElem=11-1 ElemStation=0

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 M3=12.1540244260977 FrameElem=11-1 ElemStation=0.1125  
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 Frame=11 Station=0.1125 OutputCase=ST2D CaseType=LinStatic P=-7.96318448288366 V2=-0.253546334977727 V3=0 T=0 M2=0  
 M3=7.31808729268814 FrameElem=11-1 ElemStation=0.1125  
 Frame=11 Station=0 OutputCase=ST3D CaseType=LinStatic P=-4.7540252157487 V2=2.05581804038957E-03 V3=0 T=0 M2=0 M3=7.61648671759031  
 FrameElem=11-1 ElemStation=0  
 Frame=11 Station=0.1125 OutputCase=ST3D CaseType=LinStatic P=-4.7540252157487 V2=2.05581804038957E-03 V3=0 T=0 M2=0  
 M3=7.61625543806076 FrameElem=11-1 ElemStation=0.1125  
 Frame=11 Station=0 OutputCase=ST4D CaseType=LinStatic P=-4.98778046667576 V2=-0.158771039088606 V3=0 T=0 M2=0 M3=4.56596770743818  
 FrameElem=11-1 ElemStation=0  
 Frame=11 Station=0.1125 OutputCase=ST4D CaseType=LinStatic P=-4.98778046667576 V2=-0.158771039088606 V3=0 T=0 M2=0  
 M3=4.58382944933564 FrameElem=11-1 ElemStation=0.1125  
 Frame=11 Station=0 OutputCase=ST1S CaseType=LinStatic P=-7.58647593483329 V2=-9.62558016180992E-03 V3=0 T=0 M2=0 M3=-9.4539821904109  
 FrameElem=11-1 ElemStation=0  
 Frame=11 Station=0.1125 OutputCase=ST1S CaseType=LinStatic P=-7.58647593483329 V2=-9.62558016180992E-03 V3=0 T=0 M2=0 M3=-  
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 Frame=11 Station=0 OutputCase=ST4S CaseType=LinStatic P=-4.62292075878941 V2=0.153935490918229 V3=0 T=0 M2=0 M3=-3.14600775837062  
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 Frame=11 Station=0.1125 OutputCase=ST4S CaseType=LinStatic P=-4.62292075878941 V2=0.153935490918229 V3=0 T=0 M2=0 M3=-  
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 FrameElem=11-1 ElemStation=0  
 Frame=11 Station=0.1125 OutputCase=QM01 CaseType=LinStatic P=5.28484077572287 V2=-80.0349459007848 V3=0 T=0 M2=0  
 M3=32.9254756645795 FrameElem=11-1 ElemStation=0.1125  
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 M3=14.2327902015575 FrameElem=11-1 ElemStation=0.1125  
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 FrameElem=11-1 ElemStation=0  
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 ElemStation=0  
 Frame=11 Station=0.1125 OutputCase=FA01 CaseType=LinStatic P=0 V2=-1.12216079275822 V3=0 T=0 M2=0 M3=-9.85693619544909  
 FrameElem=11-1 ElemStation=0.1125  
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 ElemStation=0  
 Frame=11 Station=0.1125 OutputCase=IS01 CaseType=LinStatic P=0 V2=-3.19720679824241 V3=0 T=0 M2=0 M3=-33.6870828715095  
 FrameElem=11-1 ElemStation=0.1125  
 Frame=11 Station=0 OutputCase=SSTS CaseType=LinStatic P=-15.2415795307606 V2=-1.93382339784876E-02 V3=0 T=0 M2=0 M3=-18.993485601306  
 FrameElem=11-1 ElemStation=0  
 Frame=11 Station=0.1125 OutputCase=SSTS CaseType=LinStatic P=-15.2415795307606 V2=-1.93382339784876E-02 V3=0 T=0 M2=0 M3=-  
 18.9913100499834 FrameElem=11-1 ElemStation=0.1125  
 Frame=11 Station=0 OutputCase=TC01 CaseType=LinStatic P=8.48507073739739 V2=2.47069685376573E-02 V3=0 T=0 M2=0 M3=-10.5153631884473  
 FrameElem=11-1 ElemStation=0  
 Frame=11 Station=0.1125 OutputCase=TC01 CaseType=LinStatic P=8.48507073739739 V2=2.47069685376573E-02 V3=0 T=0 M2=0 M3=-  
 10.5181427224078 FrameElem=11-1 ElemStation=0.1125

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Frame=11 Station=0 OutputCase=TC02 CaseType=LinStatic P=-8.48507073739739 V2=-2.47069685376573E-02 V3=0 T=0 M2=0 M3=10.5153631884473  
 FrameElem=11-1 ElemStation=0  
 Frame=11 Station=0.1125 OutputCase=TC02 CaseType=LinStatic P=-8.48507073739739 V2=-2.47069685376573E-02 V3=0 T=0 M2=0  
 M3=10.5181427224078 FrameElem=11-1 ElemStation=0.1125  
 Frame=11 Station=0 OutputCase=TV01 CaseType=LinStatic P=-5.34494915833307 V2=-4.15333482771985E-03 V3=0 T=0 M2=0 M3=1.76767231034484  
 FrameElem=11-1 ElemStation=0  
 Frame=11 Station=0.1125 OutputCase=TV01 CaseType=LinStatic P=-5.34494915833307 V2=-4.15333482771985E-03 V3=0 T=0 M2=0  
 M3=1.76813956051295 FrameElem=11-1 ElemStation=0.1125  
 Frame=11 Station=0 OutputCase=TV02 CaseType=LinStatic P=5.34494915833307 V2=4.15333482771985E-03 V3=0 T=0 M2=0 M3=-1.76767231034484  
 FrameElem=11-1 ElemStation=0  
 Frame=11 Station=0.1125 OutputCase=TV02 CaseType=LinStatic P=5.34494915833307 V2=4.15333482771985E-03 V3=0 T=0 M2=0 M3=-  
 1.76813956051295 FrameElem=11-1 ElemStation=0.1125  
 Frame=11 Station=0 OutputCase=PPAQ CaseType=LinStatic P=1.57366671864672 V2=3.62628832826158 V3=0 T=0 M2=0 M3=-2.31696265452774  
 FrameElem=11-1 ElemStation=0  
 Frame=11 Station=0.1125 OutputCase=PPAQ CaseType=LinStatic P=1.57366671864672 V2=3.62628832826158 V3=0 T=0 M2=0 M3=-  
 2.72492009145717 FrameElem=11-1 ElemStation=0.1125  
 Frame=12 Station=0 OutputCase=PPST CaseType=LinStatic P=2.12689961543333E-04 V2=7.11541844788007 V3=0 T=0 M2=0 M3=1.9152862769115  
 FrameElem=12-1 ElemStation=0  
 Frame=12 Station=0.1125 OutputCase=PPST CaseType=LinStatic P=2.12689961543333E-04 V2=8.52166844788007 V3=0 T=0 M2=0  
 M3=1.03570013902499 FrameElem=12-1 ElemStation=0.1125  
 Frame=12 Station=0 OutputCase=PPNS CaseType=LinStatic P=6.8651270186848E-05 V2=-4.84292059671134 V3=0 T=0 M2=0 M3=-2.41871254490979  
 FrameElem=12-1 ElemStation=0  
 Frame=12 Station=0.1125 OutputCase=PPNS CaseType=LinStatic P=6.8651270186848E-05 V2=-4.84292059671134 V3=0 T=0 M2=0 M3=-  
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 Frame=12 Station=0 OutputCase=ST1D CaseType=LinStatic P=15.200517966412 V2=-2.65341964055551 V3=0 T=0 M2=0 M3=-0.665403037492069  
 FrameElem=12-1 ElemStation=0  
 Frame=12 Station=0.1125 OutputCase=ST1D CaseType=LinStatic P=15.200517966412 V2=-2.65341964055551 V3=0 T=0 M2=0 M3=-  
 0.366893327929575 FrameElem=12-1 ElemStation=0.1125  
 Frame=12 Station=0 OutputCase=ST2D CaseType=LinStatic P=11.8755436851643 V2=-1.38299278551131 V3=0 T=0 M2=0 M3=-0.346831544964516  
 FrameElem=12-1 ElemStation=0  
 Frame=12 Station=0.1125 OutputCase=ST2D CaseType=LinStatic P=11.8755436851643 V2=-1.38299278551131 V3=0 T=0 M2=0 M3=-  
 0.191244856594494 FrameElem=12-1 ElemStation=0.1125  
 Frame=12 Station=0 OutputCase=ST3D CaseType=LinStatic P=9.52532458119094 V2=-1.66275145232794 V3=0 T=0 M2=0 M3=-0.416971311318775  
 FrameElem=12-1 ElemStation=0  
 Frame=12 Station=0.1125 OutputCase=ST3D CaseType=LinStatic P=9.52532458119094 V2=-1.66275145232794 V3=0 T=0 M2=0 M3=-  
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 Frame=12 Station=0 OutputCase=ST4D CaseType=LinStatic P=7.43846553983167 V2=-0.866299224493559 V3=0 T=0 M2=0 M3=-0.217253406985037  
 FrameElem=12-1 ElemStation=0  
 Frame=12 Station=0.1125 OutputCase=ST4D CaseType=LinStatic P=7.43846553983167 V2=-0.866299224493559 V3=0 T=0 M2=0 M3=-  
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 FrameElem=12-1 ElemStation=0  
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 M3=0.366107159773674 FrameElem=12-1 ElemStation=0.1125  
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 FrameElem=12-1 ElemStation=0  
 Frame=12 Station=0.1125 OutputCase=ST2S CaseType=LinStatic P=-11.8744563194923 V2=1.37862877122825 V3=0 T=0 M2=0  
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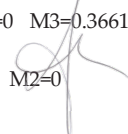
Società di Progetto  
 Brebemi SpA

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APPROVATO SDR

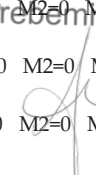
Società di Progetto  
 Bredemi SpA






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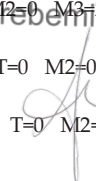
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Società di Progetto  
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 Frame=14 Station=0.2 OutputCase=SSTS CaseType=LinStatic P=-30.5364593975246 V2=1.54869629745372 V3=0 T=0 M2=0 M3=2.91078272596224E-12 FrameElem=14-1 ElemStation=0.2  
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APPROVATO SGP

Società di Progetto  
**Brebeni SpA**  




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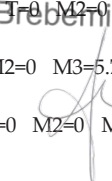
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Società di Progetto  
 Brebeni SpA

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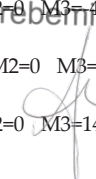
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APPROVATO SDR


Società di Progetto  
**Bredem SpA**  


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 FrameElem=16-1 ElemStation=0  
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 FrameElem=16-1 ElemStation=0  
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 FrameElem=16-1 ElemStation=0.1125  
 Frame=16 Station=0 OutputCase=SSTS CaseType=LinStatic P=-15.2948798593134 V2=6.80079930787906 V3=0 T=0 M2=0 M3=11.5866403000073  
 FrameElem=16-1 ElemStation=0  
 Frame=16 Station=0.1125 OutputCase=SSTS CaseType=LinStatic P=-15.2948798593134 V2=6.80079930787906 V3=0 T=0 M2=0 M3=10.8215503778709  
 FrameElem=16-1 ElemStation=0.1125  
 Frame=16 Station=0 OutputCase=TC01 CaseType=LinStatic P=-8.48565005190176 V2=-1.81898940354586E-12 V3=0 T=0 M2=0 M3=-  
 10.6906281648276 FrameElem=16-1 ElemStation=0  
 Frame=16 Station=0.1125 OutputCase=TC01 CaseType=LinStatic P=-8.48565005190176 V2=-1.81898940354586E-12 V3=0 T=0 M2=0 M3=-  
 10.6906281648274 FrameElem=16-1 ElemStation=0.1125  
 Frame=16 Station=0 OutputCase=TC02 CaseType=LinStatic P=8.48565005190176 V2=1.81898940354586E-12 V3=0 T=0 M2=0 M3=10.6906281648276  
 FrameElem=16-1 ElemStation=0  
 Frame=16 Station=0.1125 OutputCase=TC02 CaseType=LinStatic P=8.48565005190176 V2=1.81898940354586E-12 V3=0 T=0 M2=0  
 M3=10.6906281648274 FrameElem=16-1 ElemStation=0.1125  
 Frame=16 Station=0 OutputCase=TV01 CaseType=LinStatic P=5.34531408241131 V2=1.13686837721616E-13 V3=0 T=0 M2=0 M3=11.5942455770998  
 FrameElem=16-1 ElemStation=0  
 Frame=16 Station=0.1125 OutputCase=TV01 CaseType=LinStatic P=5.34531408241131 V2=1.13686837721616E-13 V3=0 T=0 M2=0  
 M3=11.5942455770998 FrameElem=16-1 ElemStation=0.1125  
 Frame=16 Station=0 OutputCase=TV02 CaseType=LinStatic P=-5.34531408241131 V2=-1.13686837721616E-13 V3=0 T=0 M2=0 M3=-  
 11.5942455770998 FrameElem=16-1 ElemStation=0  
 Frame=16 Station=0.1125 OutputCase=TV02 CaseType=LinStatic P=-5.34531408241131 V2=-1.13686837721616E-13 V3=0 T=0 M2=0 M3=-  
 11.5942455770998 FrameElem=16-1 ElemStation=0.1125  
 Frame=16 Station=0 OutputCase=PPAQ CaseType=LinStatic P=-1.57377416005756 V2=-5.82076609134674E-11 V3=0 T=0 M2=0 M3=-  
 0.529114773427864 FrameElem=16-1 ElemStation=0  
 Frame=16 Station=0.1125 OutputCase=PPAQ CaseType=LinStatic P=-1.57377416005756 V2=-5.82076609134674E-11 V3=0 T=0 M2=0 M3=-  
 0.529114773421316 FrameElem=16-1 ElemStation=0.1125  
 Frame=17 Station=0 OutputCase=PPST CaseType=LinStatic P=3.11542787978321 V2=-24.999999999854 V3=0 T=0 M2=0 M3=4.66095386860979  
 FrameElem=17-1 ElemStation=0  
 Frame=17 Station=0.5 OutputCase=PPST CaseType=LinStatic P=3.11542787978321 V2=-18.749999999854 V3=0 T=0 M2=0 M3=6.27654613138293  
 FrameElem=17-1 ElemStation=0.5  
 Frame=17 Station=1 OutputCase=PPST CaseType=LinStatic P=3.11542787978321 V2=-12.499999999854 V3=0 T=0 M2=0 M3=14.0890461313757  
 FrameElem=17-1 ElemStation=1

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Frame=17 Station=0 OutputCase=PPNS CaseType=LinStatic P=1.00558615663095 V2=-54 V3=0 T=0 M2=0 M3=-11.9920243758825 FrameElem=17-1 ElemStation=0

Frame=17 Station=0.5 OutputCase=PPNS CaseType=LinStatic P=1.00558615663095 V2=-40.5 V3=0 T=0 M2=0 M3=11.6329756241175 FrameElem=17-1 ElemStation=0.5

Frame=17 Station=1 OutputCase=PPNS CaseType=LinStatic P=1.00558615663095 V2=-27 V3=0 T=0 M2=0 M3=28.5079756241175 FrameElem=17-1 ElemStation=1

Frame=17 Station=0 OutputCase=ST1D CaseType=LinStatic P=-7.61300610075705 V2=-3.38508880823974 V3=0 T=0 M2=0 M3=-8.15394292862493 FrameElem=17-1 ElemStation=0

Frame=17 Station=0.5 OutputCase=ST1D CaseType=LinStatic P=-7.61300610075705 V2=-3.38508880823974 V3=0 T=0 M2=0 M3=-6.46139852450506 FrameElem=17-1 ElemStation=0.5

Frame=17 Station=1 OutputCase=ST1D CaseType=LinStatic P=-7.61300610075705 V2=-3.38508880823974 V3=0 T=0 M2=0 M3=-4.76885412038519 FrameElem=17-1 ElemStation=1

Frame=17 Station=0 OutputCase=ST2D CaseType=LinStatic P=-3.91127183346543 V2=-1.50900819389517 V3=0 T=0 M2=0 M3=-4.02699137275613 FrameElem=17-1 ElemStation=0

Frame=17 Station=0.5 OutputCase=ST2D CaseType=LinStatic P=-3.91127183346543 V2=-1.50900819389517 V3=0 T=0 M2=0 M3=-3.27248727580854 FrameElem=17-1 ElemStation=0.5

Frame=17 Station=1 OutputCase=ST2D CaseType=LinStatic P=-3.91127183346543 V2=-1.50900819389517 V3=0 T=0 M2=0 M3=-2.51798317886096 FrameElem=17-1 ElemStation=1

Frame=17 Station=0 OutputCase=ST3D CaseType=LinStatic P=-4.77065020456212 V2=-2.12124808542558 V3=0 T=0 M2=0 M3=-5.10962542073321 FrameElem=17-1 ElemStation=0

Frame=17 Station=0.5 OutputCase=ST3D CaseType=LinStatic P=-4.77065020456212 V2=-2.12124808542558 V3=0 T=0 M2=0 M3=-4.04900137802042 FrameElem=17-1 ElemStation=0.5

Frame=17 Station=1 OutputCase=ST3D CaseType=LinStatic P=-4.77065020456212 V2=-2.12124808542558 V3=0 T=0 M2=0 M3=-2.98837733530763 FrameElem=17-1 ElemStation=1

Frame=17 Station=0 OutputCase=ST4D CaseType=LinStatic P=-2.45000399416313 V2=-0.945283629986534 V3=0 T=0 M2=0 M3=-2.52252034446678 FrameElem=17-1 ElemStation=0

Frame=17 Station=0.5 OutputCase=ST4D CaseType=LinStatic P=-2.45000399416313 V2=-0.945283629986534 V3=0 T=0 M2=0 M3=-2.04987852947352 FrameElem=17-1 ElemStation=0.5

Frame=17 Station=1 OutputCase=ST4D CaseType=LinStatic P=-2.45000399416313 V2=-0.945283629986534 V3=0 T=0 M2=0 M3=-1.57723671448025 FrameElem=17-1 ElemStation=1

Frame=17 Station=0 OutputCase=ST1S CaseType=LinStatic P=-7.61300610238686 V2=3.38508880823792 V3=0 T=0 M2=0 M3=5.3864123043204 FrameElem=17-1 ElemStation=0

Frame=17 Station=0.5 OutputCase=ST1S CaseType=LinStatic P=-7.61300610238686 V2=3.38508880823792 V3=0 T=0 M2=0 M3=3.69386790020144 FrameElem=17-1 ElemStation=0.5

Frame=17 Station=1 OutputCase=ST1S CaseType=LinStatic P=-7.61300610238686 V2=3.38508880823792 V3=0 T=0 M2=0 M3=2.00132349608248 FrameElem=17-1 ElemStation=1

Frame=17 Station=0 OutputCase=ST2S CaseType=LinStatic P=-3.9112718346878 V2=1.50900819389608 V3=0 T=0 M2=0 M3=2.00904140282501 FrameElem=17-1 ElemStation=0

Frame=17 Station=0.5 OutputCase=ST2S CaseType=LinStatic P=-3.9112718346878 V2=1.50900819389608 V3=0 T=0 M2=0 M3=1.25453730587697 FrameElem=17-1 ElemStation=0.5

Frame=17 Station=1 OutputCase=ST2S CaseType=LinStatic P=-3.9112718346878 V2=1.50900819389608 V3=0 T=0 M2=0 M3=0.500033208928926 FrameElem=17-1 ElemStation=1

Frame=17 Station=0 OutputCase=ST3S CaseType=LinStatic P=-4.77065020560985 V2=2.12124808542467 V3=0 T=0 M2=0 M3=3.37536692096364 FrameElem=17-1 ElemStation=0

Frame=17 Station=0.5 OutputCase=ST3S CaseType=LinStatic P=-4.77065020560985 V2=2.12124808542467 V3=0 T=0 M2=0 M3=2.31474287825131 FrameElem=17-1 ElemStation=0.5

Frame=17 Station=1 OutputCase=ST3S CaseType=LinStatic P=-4.77065020560985 V2=2.12124808542467 V3=0 T=0 M2=0 M3=1.25411883553897 FrameElem=17-1 ElemStation=1

Frame=17 Station=0 OutputCase=ST4S CaseType=LinStatic P=-2.44301361398539 V2=0.944054578640134 V3=0 T=0 M2=0 M3=1.260416180535 FrameElem=17-1 ElemStation=0

Frame=17 Station=0.5 OutputCase=ST4S CaseType=LinStatic P=-2.44301361398539 V2=0.944054578640134 V3=0 T=0 M2=0 M3=0.788388891214936 FrameElem=17-1 ElemStation=0.5

Frame=17 Station=1 OutputCase=ST4S CaseType=LinStatic P=-2.44301361398539 V2=0.944054578640134 V3=0 T=0 M2=0 M3=0.316361601894869 FrameElem=17-1 ElemStation=1

Frame=17 Station=0 OutputCase=QM01 CaseType=LinStatic P=-5.28520159592619 V2=-87.999999999854 V3=0 T=0 M2=0 M3=-21.8704374104782 FrameElem=17-1 ElemStation=0

Frame=17 Station=0.5 OutputCase=QM01 CaseType=LinStatic P=-5.28520159592619 V2=-65.999999999854 V3=0 T=0 M2=0 M3=16.6295625895145 FrameElem=17-1 ElemStation=0.5


Frame=17 Station=1 OutputCase=QM01 CaseType=LinStatic P=-5.28520159592619 V2=-43.999999999854 V3=0 T=0 M2=0 M3=44.1295625895073 FrameElem=17-1 ElemStation=1

Frame=17 Station=0 OutputCase=QM02 CaseType=LinStatic P=-1.08106396280313 V2=-18 V3=0 T=0 M2=0 M3=-4.47749856123401 FrameElem=17-1 ElemStation=0

Frame=17 Station=0.5 OutputCase=QM02 CaseType=LinStatic P=-1.08106396280313 V2=-13.5 V3=0 T=0 M2=0 M3=3.40150143876599 FrameElem=17-1 ElemStation=0.5

Frame=17 Station=1 OutputCase=QM02 CaseType=LinStatic P=-1.08106396280313 V2=-9 V3=0 T=0 M2=0 M3=9.02650143876599 FrameElem=17-1 ElemStation=1


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Frame=17 Station=0 OutputCase=SQMD CaseType=LinStatic P=-9.16713441733737 V2=-4.1623587974027 V3=0 T=0 M2=0 M3=-9.87927560044409  
 FrameElem=17-1 ElemStation=0  
 Frame=17 Station=0.5 OutputCase=SQMD CaseType=LinStatic P=-9.16713441733737 V2=-4.1623587974027 V3=0 T=0 M2=0 M3=-7.79809620174274  
 FrameElem=17-1 ElemStation=0.5  
 Frame=17 Station=1 OutputCase=SQMD CaseType=LinStatic P=-9.16713441733737 V2=-4.1623587974027 V3=0 T=0 M2=0 M3=-5.71691680304139  
 FrameElem=17-1 ElemStation=1  
 Frame=17 Station=0 OutputCase=SQMS CaseType=LinStatic P=-9.16713441920001 V2=4.16235879739907 V3=0 T=0 M2=0 M3=6.77015958914126  
 FrameElem=17-1 ElemStation=0  
 Frame=17 Station=0.5 OutputCase=SQMS CaseType=LinStatic P=-9.16713441920001 V2=4.16235879739907 V3=0 T=0 M2=0 M3=4.68898019044173  
 FrameElem=17-1 ElemStation=0.5  
 Frame=17 Station=1 OutputCase=SQMS CaseType=LinStatic P=-9.16713441920001 V2=4.16235879739907 V3=0 T=0 M2=0 M3=2.60780079174219  
 FrameElem=17-1 ElemStation=1  
 Frame=17 Station=0 OutputCase=FA01 CaseType=LinStatic P=7.7999999934807 V2=4.97891539074772 V3=0 T=0 M2=0 M3=9.95783078148452  
 FrameElem=17-1 ElemStation=0  
 Frame=17 Station=0.5 OutputCase=FA01 CaseType=LinStatic P=5.8499999934807 V2=4.97891539074772 V3=0 T=0 M2=0 M3=7.46837308611066  
 FrameElem=17-1 ElemStation=0.5  
 Frame=17 Station=1 OutputCase=FA01 CaseType=LinStatic P=3.8999999934807 V2=4.97891539074772 V3=0 T=0 M2=0 M3=4.9789153907368  
 FrameElem=17-1 ElemStation=1  
 Frame=17 Station=0 OutputCase=IS01 CaseType=LinStatic P=22.1999999976251 V2=15.9356821367692 V3=0 T=0 M2=0 M3=31.8713642735056  
 FrameElem=17-1 ElemStation=0  
 Frame=17 Station=0.5 OutputCase=IS01 CaseType=LinStatic P=16.6499999976251 V2=15.9356821367692 V3=0 T=0 M2=0 M3=23.903523205121  
 FrameElem=17-1 ElemStation=0.5  
 Frame=17 Station=1 OutputCase=IS01 CaseType=LinStatic P=11.0999999976251 V2=15.9356821367692 V3=0 T=0 M2=0 M3=15.9356821367364  
 FrameElem=17-1 ElemStation=1  
 Frame=17 Station=0 OutputCase=SSTS CaseType=LinStatic P=-15.2948798588477 V2=6.80079930799911 V3=0 T=0 M2=0 M3=10.8215503778447  
 FrameElem=17-1 ElemStation=0  
 Frame=17 Station=0.5 OutputCase=SSTS CaseType=LinStatic P=-15.2948798588477 V2=6.80079930799911 V3=0 T=0 M2=0 M3=7.42115072384513  
 FrameElem=17-1 ElemStation=0.5  
 Frame=17 Station=1 OutputCase=SSTS CaseType=LinStatic P=-15.2948798588477 V2=6.80079930799911 V3=0 T=0 M2=0 M3=4.02075106984557  
 FrameElem=17-1 ElemStation=1  
 Frame=17 Station=0 OutputCase=TC01 CaseType=LinStatic P=-8.48565005190198 V2=-2.39452901951154E-12 V3=0 T=0 M2=0 M3=-  
 10.6906281648274 FrameElem=17-1 ElemStation=0  
 Frame=17 Station=0.5 OutputCase=TC01 CaseType=LinStatic P=-8.48565005190198 V2=-2.39452901951154E-12 V3=0 T=0 M2=0 M3=-  
 10.6906281648262 FrameElem=17-1 ElemStation=0.5  
 Frame=17 Station=1 OutputCase=TC01 CaseType=LinStatic P=-8.48565005190198 V2=-2.39452901951154E-12 V3=0 T=0 M2=0 M3=-10.690628164825  
 FrameElem=17-1 ElemStation=1  
 Frame=17 Station=0 OutputCase=TC02 CaseType=LinStatic P=8.48565005190198 V2=2.39452901951154E-12 V3=0 T=0 M2=0 M3=10.6906281648274  
 FrameElem=17-1 ElemStation=0  
 Frame=17 Station=0.5 OutputCase=TC02 CaseType=LinStatic P=8.48565005190198 V2=2.39452901951154E-12 V3=0 T=0 M2=0 M3=10.6906281648262  
 FrameElem=17-1 ElemStation=0.5  
 Frame=17 Station=1 OutputCase=TC02 CaseType=LinStatic P=8.48565005190198 V2=2.39452901951154E-12 V3=0 T=0 M2=0 M3=10.690628164825  
 FrameElem=17-1 ElemStation=1  
 Frame=17 Station=0 OutputCase=TV01 CaseType=LinStatic P=5.34531408241129 V2=-2.8421709430404E-14 V3=0 T=0 M2=0 M3=11.5942455770998  
 FrameElem=17-1 ElemStation=0  
 Frame=17 Station=0.5 OutputCase=TV01 CaseType=LinStatic P=5.34531408241129 V2=-2.8421709430404E-14 V3=0 T=0 M2=0 M3=11.5942455770998  
 FrameElem=17-1 ElemStation=0.5  
 Frame=17 Station=1 OutputCase=TV01 CaseType=LinStatic P=5.34531408241129 V2=-2.8421709430404E-14 V3=0 T=0 M2=0 M3=11.5942455770998  
 FrameElem=17-1 ElemStation=1  
 Frame=17 Station=0 OutputCase=TV02 CaseType=LinStatic P=-5.34531408241129 V2=2.8421709430404E-14 V3=0 T=0 M2=0 M3=-11.5942455770998  
 FrameElem=17-1 ElemStation=0  
 Frame=17 Station=0.5 OutputCase=TV02 CaseType=LinStatic P=-5.34531408241129 V2=2.8421709430404E-14 V3=0 T=0 M2=0 M3=-  
 11.5942455770998 FrameElem=17-1 ElemStation=0.5  
 Frame=17 Station=1 OutputCase=TV02 CaseType=LinStatic P=-5.34531408241129 V2=2.8421709430404E-14 V3=0 T=0 M2=0 M3=-11.5942455770998  
 FrameElem=17-1 ElemStation=1  
 Frame=17 Station=0 OutputCase=PPAQ CaseType=LinStatic P=-1.57377416005727 V2=3.63797880709171E-12 V3=0 T=0 M2=0 M3=-  
 0.529114773424226 FrameElem=17-1 ElemStation=0  
 Frame=17 Station=0.5 OutputCase=PPAQ CaseType=LinStatic P=-1.57377416005727 V2=3.63797880709171E-12 V3=0 T=0 M2=0 M3=-  
 0.529114773426045 FrameElem=17-1 ElemStation=0.5  
 Frame=17 Station=1 OutputCase=PPAQ CaseType=LinStatic P=-1.57377416005727 V2=3.63797880709171E-12 V3=0 T=0 M2=0 M3=-  
 0.529114773427864 FrameElem=17-1 ElemStation=1  
 Frame=18 Station=0 OutputCase=PPST CaseType=LinStatic P=3.11542787978321 V2=-12.499999999709 V3=0 T=0 M2=0 M3=14.0890461313829  
 FrameElem=18-1 ElemStation=0  
 Frame=18 Station=0.5 OutputCase=PPST CaseType=LinStatic P=3.11542787978321 V2=-6.249999999709 V3=0 T=0 M2=0 M3=18.7765461313684  
 FrameElem=18-1 ElemStation=0.5  
 Frame=18 Station=1 OutputCase=PPST CaseType=LinStatic P=3.11542787978321 V2=2.91038304567337E-11 V3=0 T=0 M2=0 M3=20.3390461313538  
 FrameElem=18-1 ElemStation=1


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Frame=18 Station=0 OutputCase=PPNS CaseType=LinStatic P=1.00558615663095 V2=-26.9999999999854 V3=0 T=0 M2=0 M3=28.507975624103  
 FrameElem=18-1 ElemStation=0  
 Frame=18 Station=0.5 OutputCase=PPNS CaseType=LinStatic P=1.00558615663095 V2=-13.4999999999854 V3=0 T=0 M2=0 M3=38.6329756240957  
 FrameElem=18-1 ElemStation=0.5  
 Frame=18 Station=1 OutputCase=PPNS CaseType=LinStatic P=1.00558615663095 V2=1.45519152283669E-11 V3=0 T=0 M2=0 M3=42.0079756240884  
 FrameElem=18-1 ElemStation=1  
 Frame=18 Station=0 OutputCase=ST1D CaseType=LinStatic P=-7.61300610075705 V2=-3.38508880823838 V3=0 T=0 M2=0 M3=-4.76885412038587  
 FrameElem=18-1 ElemStation=0  
 Frame=18 Station=0.5 OutputCase=ST1D CaseType=LinStatic P=-7.61300610075705 V2=-3.38508880823838 V3=0 T=0 M2=0 M3=-3.07630971626668  
 FrameElem=18-1 ElemStation=0.5  
 Frame=18 Station=1 OutputCase=ST1D CaseType=LinStatic P=-7.61300610075705 V2=-3.38508880823838 V3=0 T=0 M2=0 M3=-1.38376531214749  
 FrameElem=18-1 ElemStation=1  
 Frame=18 Station=0 OutputCase=ST2D CaseType=LinStatic P=-3.91127183340723 V2=-1.5090081938954 V3=0 T=0 M2=0 M3=-2.51798317886113  
 FrameElem=18-1 ElemStation=0  
 Frame=18 Station=0.5 OutputCase=ST2D CaseType=LinStatic P=-3.91127183340723 V2=-1.5090081938954 V3=0 T=0 M2=0 M3=-1.76347908191343  
 FrameElem=18-1 ElemStation=0.5  
 Frame=18 Station=1 OutputCase=ST2D CaseType=LinStatic P=-3.91127183340723 V2=-1.5090081938954 V3=0 T=0 M2=0 M3=-1.00897498496573  
 FrameElem=18-1 ElemStation=1  
 Frame=18 Station=0 OutputCase=ST3D CaseType=LinStatic P=-4.77065020450391 V2=-2.12124808542512 V3=0 T=0 M2=0 M3=-2.98837733530684  
 FrameElem=18-1 ElemStation=0  
 Frame=18 Station=0.5 OutputCase=ST3D CaseType=LinStatic P=-4.77065020450391 V2=-2.12124808542512 V3=0 T=0 M2=0 M3=-1.92775329259428  
 FrameElem=18-1 ElemStation=0.5  
 Frame=18 Station=1 OutputCase=ST3D CaseType=LinStatic P=-4.77065020450391 V2=-2.12124808542512 V3=0 T=0 M2=0 M3=-0.867129249881714  
 FrameElem=18-1 ElemStation=1  
 Frame=18 Station=0 OutputCase=ST4D CaseType=LinStatic P=-2.45000399422133 V2=-0.945283629987216 V3=0 T=0 M2=0 M3=-1.57723671448002  
 FrameElem=18-1 ElemStation=0  
 Frame=18 Station=0.5 OutputCase=ST4D CaseType=LinStatic P=-2.45000399422133 V2=-0.945283629987216 V3=0 T=0 M2=0 M3=-1.10459489948641  
 FrameElem=18-1 ElemStation=0.5  
 Frame=18 Station=1 OutputCase=ST4D CaseType=LinStatic P=-2.45000399422133 V2=-0.945283629987216 V3=0 T=0 M2=0 M3=-0.631953084492807  
 FrameElem=18-1 ElemStation=1  
 Frame=18 Station=0 OutputCase=ST1S CaseType=LinStatic P=-7.61300610238686 V2=3.38508880823929 V3=0 T=0 M2=0 M3=2.00132349608202  
 FrameElem=18-1 ElemStation=0  
 Frame=18 Station=0.5 OutputCase=ST1S CaseType=LinStatic P=-7.61300610238686 V2=3.38508880823929 V3=0 T=0 M2=0 M3=0.308779091962379  
 FrameElem=18-1 ElemStation=0.5  
 Frame=18 Station=1 OutputCase=ST1S CaseType=LinStatic P=-7.61300610238686 V2=3.38508880823929 V3=0 T=0 M2=0 M3=-1.38376531215727  
 FrameElem=18-1 ElemStation=1  
 Frame=18 Station=0 OutputCase=ST2S CaseType=LinStatic P=-3.911271834746 V2=1.50900819389517 V3=0 T=0 M2=0 M3=0.500033208929381  
 FrameElem=18-1 ElemStation=0  
 Frame=18 Station=0.5 OutputCase=ST2S CaseType=LinStatic P=-3.911271834746 V2=1.50900819389517 V3=0 T=0 M2=0 M3=-0.254470888018204  
 FrameElem=18-1 ElemStation=0.5  
 Frame=18 Station=1 OutputCase=ST2S CaseType=LinStatic P=-3.911271834746 V2=1.50900819389517 V3=0 T=0 M2=0 M3=-1.00897498496579  
 FrameElem=18-1 ElemStation=1  
 Frame=18 Station=0 OutputCase=ST3S CaseType=LinStatic P=-4.77065020560985 V2=2.12124808542603 V3=0 T=0 M2=0 M3=1.25411883553829  
 FrameElem=18-1 ElemStation=0  
 Frame=18 Station=0.5 OutputCase=ST3S CaseType=LinStatic P=-4.77065020560985 V2=2.12124808542603 V3=0 T=0 M2=0 M3=0.193494792825277  
 FrameElem=18-1 ElemStation=0.5  
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 FrameElem=18-1 ElemStation=1  
 Frame=18 Station=0 OutputCase=QM01 CaseType=LinStatic P=-5.28520159592619 V2=-43.9999999999854 V3=0 T=0 M2=0 M3=44.1295625895073  
 FrameElem=18-1 ElemStation=0  
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 M3=66.1295625894927 FrameElem=18-1 ElemStation=1  
 Frame=18 Station=0 OutputCase=QM02 CaseType=LinStatic P=-1.08106396280313 V2=-9 V3=0 T=0 M2=0 M3=9.02650143876235 FrameElem=18-1  
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 Frame=18 Station=1 OutputCase=QM02 CaseType=LinStatic P=-1.08106396280313 V2=0 V3=0 T=0 M2=0 M3=13.5265014387624 FrameElem=18-1  
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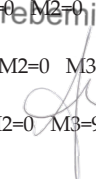
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 FrameElem=18-1 ElemStation=0.5  
 Frame=18 Station=1 OutputCase=FA01 CaseType=LinStatic P=-6.17001116864913E-10 V2=4.97891539074772 V3=0 T=0 M2=0 M3=-  
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 FrameElem=18-1 ElemStation=0  
 Frame=18 Station=0.5 OutputCase=TC02 CaseType=LinStatic P=8.48565005190186 V2=2.40163444686914E-12 V3=0 T=0 M2=0  
 M3=10.6906281648238 FrameElem=18-1 ElemStation=0.5  
 Frame=18 Station=1 OutputCase=TC02 CaseType=LinStatic P=8.48565005190186 V2=2.40163444686914E-12 V3=0 T=0 M2=0 M3=10.6906281648226  
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 FrameElem=18-1 ElemStation=0.5  
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 FrameElem=19-1 ElemStation=1  
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 FrameElem=19-1 ElemStation=0.5  
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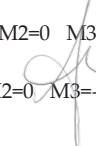
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 FrameElem=19-1 ElemStation=0.5  
 Frame=19 Station=1 OutputCase=SQMS CaseType=LinStatic P=-9.16713441920001 V2=4.16235879739634 V3=0 T=0 M2=0 M3=-5.71691680305503  
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 FrameElem=19-1 ElemStation=0.5  
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 FrameElem=19-1 ElemStation=1  
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 FrameElem=19-1 ElemStation=0  
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 FrameElem=19-1 ElemStation=0.5  
 Frame=19 Station=1 OutputCase=TV01 CaseType=LinStatic P=5.34531408241129 V2=2.8421709430404E-14 V3=0 T=0 M2=0 M3=11.5942455770998  
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 FrameElem=19-1 ElemStation=0  
 Frame=19 Station=0.5 OutputCase=TV02 CaseType=LinStatic P=-5.34531408241129 V2=-2.8421709430404E-14 V3=0 T=0 M2=0 M3=-  
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 FrameElem=19-1 ElemStation=1  
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 FrameElem=20-1 ElemStation=1

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 FrameElem=20-1 ElemStation=1  
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 Frame=20 Station=0.5 OutputCase=ST2S CaseType=LinStatic P=-3.91127183462959 V2=1.50900819389335 V3=0 T=0 M2=0 M3=-3.272487275809  
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 Drebeni SpA

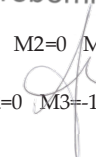





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 FrameElem=20-1 ElemStation=0.5  
 Frame=20 Station=1 OutputCase=SQMS CaseType=LinStatic P=-9.1671344190836 V2=4.16235879739907 V3=0 T=0 M2=0 M3=-9.87927560045682  
 FrameElem=20-1 ElemStation=1  
 Frame=20 Station=0 OutputCase=FA01 CaseType=LinStatic P=-3.90000000048894 V2=4.97891539074408 V3=0 T=0 M2=0 M3=-4.97891539076136  
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 FrameElem=20-1 ElemStation=0.5  
 Frame=20 Station=1 OutputCase=FA01 CaseType=LinStatic P=-7.80000000048894 V2=4.97891539074408 V3=0 T=0 M2=0 M3=-9.95783078150544  
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 Frame=20 Station=0.5 OutputCase=SSTS CaseType=LinStatic P=-15.2948798586149 V2=6.80079930799184 V3=0 T=0 M2=0 M3=-12.9812472001577  
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 Frame=20 Station=0 OutputCase=TC01 CaseType=LinStatic P=-8.48565005190221 V2=-2.36610731008113E-12 V3=0 T=0 M2=0 M3=-  
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 Frame=20 Station=0.5 OutputCase=TC02 CaseType=LinStatic P=8.48565005190221 V2=2.36610731008113E-12 V3=0 T=0 M2=0 M3=10.690628164819  
 FrameElem=20-1 ElemStation=0.5  
 Frame=20 Station=1 OutputCase=TC02 CaseType=LinStatic P=8.48565005190221 V2=2.36610731008113E-12 V3=0 T=0 M2=0 M3=10.6906281648178  
 FrameElem=20-1 ElemStation=1  
 Frame=20 Station=0 OutputCase=TV01 CaseType=LinStatic P=5.34531408241129 V2=1.4210854715202E-14 V3=0 T=0 M2=0 M3=11.5942455770998  
 FrameElem=20-1 ElemStation=0  
 Frame=20 Station=0.5 OutputCase=TV01 CaseType=LinStatic P=5.34531408241129 V2=1.4210854715202E-14 V3=0 T=0 M2=0 M3=11.5942455770998  
 FrameElem=20-1 ElemStation=0.5  
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 FrameElem=20-1 ElemStation=1  
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 FrameElem=20-1 ElemStation=0  
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 FrameElem=20-1 ElemStation=1  
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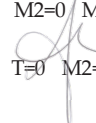
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 Frame=21 Station=0.1125 OutputCase=SQMD CaseType=LinStatic P=-9.16713441815227 V2=-4.16235879744636 V3=0 T=0 M2=0 M3=7.23842495386489 FrameElem=21-1 ElemStation=0.1125  
 Frame=21 Station=0 OutputCase=SQMS CaseType=LinStatic P=-9.16713442001492 V2=4.16235879738815 V3=0 T=0 M2=0 M3=-9.879275600455 FrameElem=21-1 ElemStation=0  
 Frame=21 Station=0.1125 OutputCase=SQMS CaseType=LinStatic P=-9.16713442001492 V2=4.16235879738815 V3=0 T=0 M2=0 M3=-10.3475409651612 FrameElem=21-1 ElemStation=0.1125  
 Frame=21 Station=0 OutputCase=FA01 CaseType=LinStatic P=-7.800000002794 V2=4.97891539067496 V3=0 T=0 M2=0 M3=-9.95783078150998 FrameElem=21-1 ElemStation=0  
 Frame=21 Station=0.1125 OutputCase=FA01 CaseType=LinStatic P=-8.2387500002794 V2=4.97891539067496 V3=0 T=0 M2=0 M3=-10.5179587629609 FrameElem=21-1 ElemStation=0.1125  
 Frame=21 Station=0 OutputCase=IS01 CaseType=LinStatic P=-22.199999992549 V2=15.9356821367983 V3=0 T=0 M2=0 M3=-31.8713642735675 FrameElem=21-1 ElemStation=0  
 Frame=21 Station=0.1125 OutputCase=IS01 CaseType=LinStatic P=-23.4487499992549 V2=15.9356821367983 V3=0 T=0 M2=0 M3=-33.6641285139573 FrameElem=21-1 ElemStation=0.1125  
 Frame=21 Station=0 OutputCase=SSTS CaseType=LinStatic P=-15.2948798555881 V2=6.80079930799548 V3=0 T=0 M2=0 M3=-16.3816468541554 FrameElem=21-1 ElemStation=0  
 Frame=21 Station=0.1125 OutputCase=SSTS CaseType=LinStatic P=-15.2948798555881 V2=6.80079930799548 V3=0 T=0 M2=0 M3=-17.1467367763049 FrameElem=21-1 ElemStation=0.1125  
 Frame=21 Station=0 OutputCase=TC01 CaseType=LinStatic P=-8.48565005189812 V2=-2.72848410531878E-12 V3=0 T=0 M2=0 M3=-10.6906281648178 FrameElem=21-1 ElemStation=0  
 Frame=21 Station=0.1125 OutputCase=TC01 CaseType=LinStatic P=-8.48565005189812 V2=-2.72848410531878E-12 V3=0 T=0 M2=0 M3=-10.6906281648175 FrameElem=21-1 ElemStation=0.1125

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Frame=21 Station=0 OutputCase=TC02 CaseType=LinStatic P=8.48565005189812 V2=2.72848410531878E-12 V3=0 T=0 M2=0 M3=10.6906281648178  
 FrameElem=21-1 ElemStation=0  
 Frame=21 Station=0.1125 OutputCase=TC02 CaseType=LinStatic P=8.48565005189812 V2=2.72848410531878E-12 V3=0 T=0 M2=0  
 M3=10.6906281648175 FrameElem=21-1 ElemStation=0.1125  
 Frame=21 Station=0 OutputCase=TV01 CaseType=LinStatic P=5.34531408241131 V2=1.13686837721616E-13 V3=0 T=0 M2=0 M3=11.5942455770998  
 FrameElem=21-1 ElemStation=0  
 Frame=21 Station=0.1125 OutputCase=TV01 CaseType=LinStatic P=5.34531408241131 V2=1.13686837721616E-13 V3=0 T=0 M2=0  
 M3=11.5942455770997 FrameElem=21-1 ElemStation=0.1125  
 Frame=21 Station=0 OutputCase=TV02 CaseType=LinStatic P=-5.34531408241131 V2=-1.13686837721616E-13 V3=0 T=0 M2=0 M3=-  
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 Frame=21 Station=0.1125 OutputCase=TV02 CaseType=LinStatic P=-5.34531408241131 V2=-1.13686837721616E-13 V3=0 T=0 M2=0 M3=-  
 11.5942455770997 FrameElem=21-1 ElemStation=0.1125  
 Frame=21 Station=0 OutputCase=PPAQ CaseType=LinStatic P=-1.57377416005727 V2=0 V3=0 T=0 M2=0 M3=-0.529114773424226 FrameElem=21-1  
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 FrameElem=21-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=PPST CaseType=LinStatic P=3.11542787978889 V2=26.40625 V3=0 T=0 M2=0 M3=-7.55255543110252  
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 FrameElem=22-1 ElemStation=0.1125  
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 FrameElem=22-1 ElemStation=0  
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 M3=6.14805728616775 FrameElem=22-1 ElemStation=0.1125  
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 FrameElem=22-1 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=ST2D CaseType=LinStatic P=-3.91127183288336 V2=-1.50900819388335 V3=0 T=0 M2=0  
 M3=2.34856824644812 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=ST3D CaseType=LinStatic P=-4.77065020473674 V2=-2.12124808540102 V3=0 T=0 M2=0 M3=3.61400733056871  
 FrameElem=22-1 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=ST3D CaseType=LinStatic P=-4.77065020473674 V2=-2.12124808540102 V3=0 T=0 M2=0  
 M3=3.85264774017633 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=ST4D CaseType=LinStatic P=-2.4500039932318 V2=-0.945283629989717 V3=0 T=0 M2=0 M3=1.36495858384296  
 FrameElem=22-1 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=ST4D CaseType=LinStatic P=-2.4500039932318 V2=-0.945283629989717 V3=0 T=0 M2=0  
 M3=1.47130299221681 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=ST1S CaseType=LinStatic P=-7.61300610378385 V2=3.38508880825248 V3=0 T=0 M2=0 M3=-8.5347654195466  
 FrameElem=22-1 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=ST1S CaseType=LinStatic P=-7.61300610378385 V2=3.38508880825248 V3=0 T=0 M2=0 M3=-  
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 Frame=22 Station=0 OutputCase=ST2S CaseType=LinStatic P=-3.91127183567733 V2=1.50900819391245 V3=0 T=0 M2=0 M3=-4.19675479455145  
 FrameElem=22-1 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=ST2S CaseType=LinStatic P=-3.91127183567733 V2=1.50900819391245 V3=0 T=0 M2=0 M3=-4.3665182163666  
 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=ST3S CaseType=LinStatic P=-4.7706502052024 V2=2.12124808540102 V3=0 T=0 M2=0 M3=-5.34826583034373  
 FrameElem=22-1 ElemStation=0  
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 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=ST4S CaseType=LinStatic P=-2.44301361450925 V2=0.944054578605574 V3=0 T=0 M2=0 M3=-2.62200827410925  
 FrameElem=22-1 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=ST4S CaseType=LinStatic P=-2.44301361450925 V2=0.944054578605574 V3=0 T=0 M2=0 M3=-  
 2.72821441420238 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=QM01 CaseType=LinStatic P=-5.28520159592625 V2=92.9499999997206 V3=0 T=0 M2=0 M3=-32.0488749104406  
 FrameElem=22-1 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=QM01 CaseType=LinStatic P=-5.28520159592625 V2=97.8999999997206 V3=0 T=0 M2=0 M3=-  
 42.7841874104092 FrameElem=22-1 ElemStation=0.1125  
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 FrameElem=22-1 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=QM02 CaseType=LinStatic P=-1.08106396280155 V2=20.0250000000699 V3=0 T=0 M2=0 M3=-  
 8.75131106123271 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=SQMD CaseType=LinStatic P=-9.16713441815227 V2=-4.16235879738815 V3=0 T=0 M2=0 M3=7.23842495385543  
 FrameElem=22-1 ElemStation=0


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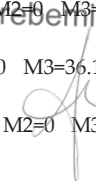
Frame=22 Station=0.1125 OutputCase=SQMD CaseType=LinStatic P=-9.16713441815227 V2=-4.16235879738815 V3=0 T=0 M2=0  
 M3=7.7066903185616 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=SQMS CaseType=LinStatic P=-9.1671344190836 V2=4.16235879744636 V3=0 T=0 M2=0 M3=-10.3475409651401  
 FrameElem=22-1 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=SQMS CaseType=LinStatic P=-9.1671344190836 V2=4.16235879744636 V3=0 T=0 M2=0 M3=-  
 10.8158063298528 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=FA01 CaseType=LinStatic P=-8.23875000141561 V2=4.97891539073316 V3=0 T=0 M2=0 M3=-10.5179587629573  
 FrameElem=22-1 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=FA01 CaseType=LinStatic P=-8.67750000141561 V2=4.97891539073316 V3=0 T=0 M2=0 M3=-  
 11.0780867444148 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=IS01 CaseType=LinStatic P=-23.4487500023097 V2=15.9356821365654 V3=0 T=0 M2=0 M3=-33.664128513934  
 FrameElem=22-1 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=IS01 CaseType=LinStatic P=-24.6975000023097 V2=15.9356821365654 V3=0 T=0 M2=0 M3=-35.4568927542976  
 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=SSTS CaseType=LinStatic P=-15.2948798593134 V2=6.80079930787906 V3=0 T=0 M2=0 M3=-17.1467367762962  
 FrameElem=22-1 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=SSTS CaseType=LinStatic P=-15.2948798593134 V2=6.80079930787906 V3=0 T=0 M2=0 M3=-  
 17.9118266984326 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=TC01 CaseType=LinStatic P=-8.48565005190903 V2=-2.50111042987555E-12 V3=0 T=0 M2=0 M3=-  
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 Frame=22 Station=0.1125 OutputCase=TC01 CaseType=LinStatic P=-8.48565005190903 V2=-2.50111042987555E-12 V3=0 T=0 M2=0 M3=-  
 10.6906281648173 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=TC02 CaseType=LinStatic P=8.48565005190903 V2=2.50111042987555E-12 V3=0 T=0 M2=0 M3=10.6906281648176  
 FrameElem=22-1 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=TC02 CaseType=LinStatic P=8.48565005190903 V2=2.50111042987555E-12 V3=0 T=0 M2=0  
 M3=10.6906281648173 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=TV01 CaseType=LinStatic P=5.34531408241128 V2=0 V3=0 T=0 M2=0 M3=11.5942455770997 FrameElem=22-1  
 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=TV01 CaseType=LinStatic P=5.34531408241128 V2=0 V3=0 T=0 M2=0 M3=11.5942455770997  
 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=TV02 CaseType=LinStatic P=-5.34531408241128 V2=0 V3=0 T=0 M2=0 M3=-11.5942455770997 FrameElem=22-1  
 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=TV02 CaseType=LinStatic P=-5.34531408241128 V2=0 V3=0 T=0 M2=0 M3=-11.5942455770997  
 FrameElem=22-1 ElemStation=0.1125  
 Frame=22 Station=0 OutputCase=PPAQ CaseType=LinStatic P=-1.57377416005718 V2=-5.82076609134674E-11 V3=0 T=0 M2=0 M3=-  
 0.529114773420588 FrameElem=22-1 ElemStation=0  
 Frame=22 Station=0.1125 OutputCase=PPAQ CaseType=LinStatic P=-1.57377416005718 V2=-5.82076609134674E-11 V3=0 T=0 M2=0 M3=-  
 0.52911477341404 FrameElem=22-1 ElemStation=0.1125  
 Frame=23 Station=0 OutputCase=PPST CaseType=LinStatic P=-55.9375000023283 V2=3.11542787977172 V3=0 T=0 M2=0 M3=18.3909298180673  
 FrameElem=23-1 ElemStation=0  
 Frame=23 Station=0.0625 OutputCase=PPST CaseType=LinStatic P=-55.2343750023283 V2=3.11542787977172 V3=0 T=0 M2=0 M3=18.1962155755815  
 FrameElem=23-1 ElemStation=0.0625  
 Frame=23 Station=0.125 OutputCase=PPST CaseType=LinStatic P=-54.5312500023283 V2=3.11542787977172 V3=0 T=0 M2=0 M3=18.0015013330958  
 FrameElem=23-1 ElemStation=0.125  
 Frame=23 Station=0 OutputCase=PPNS CaseType=LinStatic P=-60.0750000020489 V2=1.00558615663056 V3=0 T=0 M2=0 M3=27.3394272674593  
 FrameElem=23-1 ElemStation=0  
 Frame=23 Station=0.0625 OutputCase=PPNS CaseType=LinStatic P=-60.0750000020489 V2=1.00558615663056 V3=0 T=0 M2=0  
 M3=27.2765781326699 FrameElem=23-1 ElemStation=0.0625  
 Frame=23 Station=0.125 OutputCase=PPNS CaseType=LinStatic P=-60.0750000020489 V2=1.00558615663056 V3=0 T=0 M2=0 M3=27.2137289978805  
 FrameElem=23-1 ElemStation=0.125  
 Frame=23 Station=0 OutputCase=ST1D CaseType=LinStatic P=-3.38508880860172 V2=-7.61300610285252 V3=0 T=0 M2=0 M3=-10.1169273469131  
 FrameElem=23-1 ElemStation=0  
 Frame=23 Station=0.0625 OutputCase=ST1D CaseType=LinStatic P=-3.38508880860172 V2=-7.61300610285252 V3=0 T=0 M2=0 M3=-  
 9.64111446548486 FrameElem=23-1 ElemStation=0.0625  
 Frame=23 Station=0.125 OutputCase=ST1D CaseType=LinStatic P=-3.38508880860172 V2=-7.61300610285252 V3=0 T=0 M2=0 M3=-  
 9.16530158405658 FrameElem=23-1 ElemStation=0.125  
 Frame=23 Station=0 OutputCase=ST2D CaseType=LinStatic P=-1.50900819408707 V2=-3.91127183486242 V3=0 T=0 M2=0 M3=-5.41166137139226  
 FrameElem=23-1 ElemStation=0  
 Frame=23 Station=0.0625 OutputCase=ST2D CaseType=LinStatic P=-1.50900819408707 V2=-3.91127183486242 V3=0 T=0 M2=0 M3=-  
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 Frame=23 Station=0.125 OutputCase=ST2D CaseType=LinStatic P=-1.50900819408707 V2=-3.91127183486242 V3=0 T=0 M2=0 M3=-  
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 Frame=23 Station=0 OutputCase=ST3D CaseType=LinStatic P=-2.12124808569206 V2=-4.77065020566806 V3=0 T=0 M2=0 M3=-6.33971927494713  
 FrameElem=23-1 ElemStation=0  
 Frame=23 Station=0.0625 OutputCase=ST3D CaseType=LinStatic P=-2.12124808569206 V2=-4.77065020566806 V3=0 T=0 M2=0 M3=-  
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Frame=23 Station=0.125 OutputCase=ST3D CaseType=LinStatic P=-2.12124808569206 V2=-4.77065020566806 V3=0 T=0 M2=0 M3=-5.74338799923862 FrameElem=23-1 ElemStation=0.125  
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 Frame=23 Station=0 OutputCase=ST2S CaseType=LinStatic P=1.50900819402887 V2=19.8387281668838 V3=0 T=0 M2=0 M3=7.66491883760318 FrameElem=23-1 ElemStation=0  
 Frame=23 Station=0.0625 OutputCase=ST2S CaseType=LinStatic P=1.50900819402887 V2=18.6660719168838 V3=0 T=0 M2=0 M3=6.46179845738128 FrameElem=23-1 ElemStation=0.0625  
 Frame=23 Station=0.125 OutputCase=ST2S CaseType=LinStatic P=1.50900819402887 V2=17.5231031668838 V3=0 T=0 M2=0 M3=5.33104135840937 FrameElem=23-1 ElemStation=0.125  
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 Frame=23 Station=0.0625 OutputCase=ST4S CaseType=LinStatic P=0.944054578751093 V2=11.5127676369529 V3=0 T=0 M2=0 M3=4.05913249834382 FrameElem=23-1 ElemStation=0.0625  
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 Frame=23 Station=0 OutputCase=QM01 CaseType=LinStatic P=-97.9000000013039 V2=-5.28520159592654 V3=0 T=0 M2=0 M3=29.571183420665 FrameElem=23-1 ElemStation=0  
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APPROVATO SDR

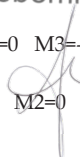
Società di Progetto  
**Bresini SpA**  





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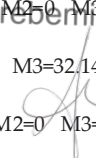
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Società di Progetto  
 Brebem SpA



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APPROVATO SDP  
 Società di Progetto  
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 Frame=24 Station=0.0625 OutputCase=TC02 CaseType=LinStatic P=4.54747350886464E-12 V2=8.48565005191415 V3=0 T=0 M2=0  
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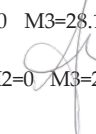
Società di Progetto  
 Bredem SpA



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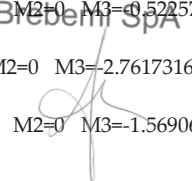
Società di Progetto  
 Drebeni SpA




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APPROVATO SGP

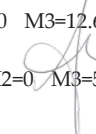
Società di Progetto  
**Bredemi SpA**  





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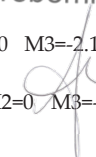
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 FrameElem=26-1 ElemStation=0  
 Frame=26 Station=0.25 OutputCase=TV02 CaseType=LinStatic P=-4.54747350886464E-13 V2=-5.34531408241121 V3=0 T=0 M2=0  
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 FrameElem=27-1 ElemStation=0.5  
 Frame=27 Station=0 OutputCase=ST2D CaseType=LinStatic P=-1.50900819414528 V2=-3.91127183512435 V3=0 T=0 M2=0 M3=-0.522571577537747  
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APPROVATO SGP  
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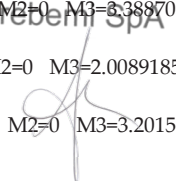



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 M3=-6.24893149468853 FrameElem=27-1 ElemStation=0.25  
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 Frame=28 Station=0 OutputCase=ST1D CaseType=LinStatic P=-3.38508880865993 V2=-7.61300610296894 V3=0 T=0 M2=0 M3=3.20583333322429  
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 Frame=28 Station=0.25 OutputCase=ST2D CaseType=LinStatic P=-1.50900819411618 V2=-3.91127183512435 V3=0 T=0 M2=0 M3=2.41088229879824  
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APPROVATO SGP

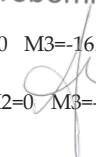
Società di Progetto  
 Bredemi SpA



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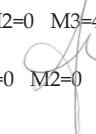





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 FrameElem=28-1 ElemStation=0  
 Frame=28 Station=0.25 OutputCase=TV02 CaseType=LinStatic P=-4.2632564145606E-13 V2=-5.34531408241122 V3=0 T=0 M2=0  
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 Frame=29 Station=0.0625 OutputCase=PPNS CaseType=LinStatic P=-60.0750000015832 V2=1.00558615663124 V3=0 T=0 M2=0  
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 FrameElem=29-1 ElemStation=0.125  
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 FrameElem=29-1 ElemStation=0  
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 FrameElem=29-1 ElemStation=0.0625  
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 Frame=29 Station=0 OutputCase=ST4S CaseType=LinStatic P=0.944054578751093 V2=-2.29363861284219 V3=0 T=0 M2=0 M3=-2.07110790562001  
 FrameElem=29-1 ElemStation=0  
 Frame=29 Station=0.0625 OutputCase=ST4S CaseType=LinStatic P=0.944054578751093 V2=-2.35879486284219 V3=0 T=0 M2=0 M3=-  
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 Frame=29 Station=0.125 OutputCase=ST4S CaseType=LinStatic P=0.944054578751093 V2=-2.40551361284219 V3=0 T=0 M2=0 M3=-  
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 Frame=29 Station=0 OutputCase=QM01 CaseType=LinStatic P=-97.9000000022352 V2=-5.2852015959254 V3=0 T=0 M2=0 M3=41.4628870114962  
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 FrameElem=29-1 ElemStation=0.125  
 Frame=29 Station=0 OutputCase=QM02 CaseType=LinStatic P=-20.0250000004889 V2=-1.08106396280317 V3=0 T=0 M2=0 M3=8.48104507053358  
 FrameElem=29-1 ElemStation=0  
 Frame=29 Station=0.0625 OutputCase=QM02 CaseType=LinStatic P=-20.0250000004889 V2=-1.08106396280317 V3=0 T=0 M2=0  
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 Frame=29 Station=0.125 OutputCase=QM02 CaseType=LinStatic P=-20.0250000004889 V2=-1.08106396280317 V3=0 T=0 M2=0  
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 Frame=29 Station=0 OutputCase=SQMD CaseType=LinStatic P=-4.16235879785381 V2=-9.16713442001492 V3=0 T=0 M2=0 M3=8.52402272487234  
 FrameElem=29-1 ElemStation=0  
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 Frame=29 Station=0.125 OutputCase=SQMD CaseType=LinStatic P=-4.16235879785381 V2=-9.16713442001492 V3=0 T=0 M2=0 M3=9.6699145273742  
 FrameElem=29-1 ElemStation=0.125  
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 FrameElem=29-1 ElemStation=0  
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 FrameElem=29-1 ElemStation=0  
 Frame=29 Station=0.0625 OutputCase=FA01 CaseType=LinStatic P=4.97891539114062 V2=8.67750000115484 V3=0 T=0 M2=0 M3=-9.45105549420987  
 FrameElem=29-1 ElemStation=0.0625  
 Frame=29 Station=0.125 OutputCase=FA01 CaseType=LinStatic P=4.97891539114062 V2=8.67750000115484 V3=0 T=0 M2=0 M3=-9.99339924428205  
 FrameElem=29-1 ElemStation=0.125  
 Frame=29 Station=0 OutputCase=IS01 CaseType=LinStatic P=15.9356821384281 V2=25.4900000034831 V3=0 T=0 M2=0 M3=-29.1834552534274  
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 FrameElem=29-1 ElemStation=0.0625


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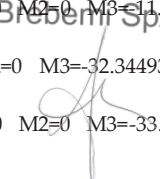
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 Frame=29 Station=0.0625 OutputCase=TC02 CaseType=LinStatic P=4.54747350886464E-12 V2=8.48565005191813 V3=0 T=0 M2=0 M3=-9.09956878009382  
 FrameElem=29-1 ElemStation=0.0625  
 Frame=29 Station=0.125 OutputCase=TC02 CaseType=LinStatic P=4.54747350886464E-12 V2=8.48565005191813 V3=0 T=0 M2=0 M3=-9.6299219083387  
 FrameElem=29-1 ElemStation=0.125  
 Frame=29 Station=0 OutputCase=TV01 CaseType=LinStatic P=3.41060513164848E-13 V2=5.34531408241128 V3=0 T=0 M2=0 M3=-10.257917056497  
 FrameElem=29-1 ElemStation=0  
 Frame=29 Station=0.0625 OutputCase=TV01 CaseType=LinStatic P=3.41060513164848E-13 V2=5.34531408241128 V3=0 T=0 M2=0 M3=-10.5919991866477  
 FrameElem=29-1 ElemStation=0.0625  
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 FrameElem=29-1 ElemStation=0.125  
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 FrameElem=29-1 ElemStation=0  
 Frame=29 Station=0.0625 OutputCase=TV02 CaseType=LinStatic P=-3.41060513164848E-13 V2=-5.34531408241128 V3=0 T=0 M2=0 M3=10.5919991866477  
 FrameElem=29-1 ElemStation=0.0625  
 Frame=29 Station=0.125 OutputCase=TV02 CaseType=LinStatic P=-3.41060513164848E-13 V2=-5.34531408241128 V3=0 T=0 M2=0 M3=10.9260813167984  
 FrameElem=29-1 ElemStation=0.125  
 Frame=29 Station=0 OutputCase=PPAQ CaseType=LinStatic P=-3.49245965480804E-10 V2=-1.57377416005686 V3=0 T=0 M2=0 M3=0.135671233410742  
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 Frame=29 Station=0.0625 OutputCase=PPAQ CaseType=LinStatic P=-3.49245965480804E-10 V2=-1.57377416005686 V3=0 T=0 M2=0 M3=0.234032118414296  
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 Frame=29 Station=0.125 OutputCase=PPAQ CaseType=LinStatic P=-3.49245965480804E-10 V2=-1.57377416005686 V3=0 T=0 M2=0 M3=0.33239300341785  
 FrameElem=29-1 ElemStation=0.125  
 Frame=30 Station=0 OutputCase=PPST CaseType=LinStatic P=-29.2187500004657 V2=3.11542787980517 V3=0 T=0 M2=0 M3=10.9917886035854  
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 FrameElem=30-1 ElemStation=0.125  
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 FrameElem=30-1 ElemStation=0  
 Frame=30 Station=0.0625 OutputCase=PPNS CaseType=LinStatic P=-60.0750000006519 V2=1.0055861566284 V3=0 T=0 M2=0 M3=24.8883110106821  
 FrameElem=30-1 ElemStation=0.0625  
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 FrameElem=30-1 ElemStation=0.125  
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 Frame=30 Station=0.0625 OutputCase=ST1D CaseType=LinStatic P=-3.38508880836889 V2=-7.61300610285252 V3=0 T=0 M2=0 M3=8.43977502905182  
 FrameElem=30-1 ElemStation=0.0625  
 Frame=30 Station=0.125 OutputCase=ST1D CaseType=LinStatic P=-3.38508880836889 V2=-7.61300610285252 V3=0 T=0 M2=0 M3=8.9155879104801  
 FrameElem=30-1 ElemStation=0.125  
 Frame=30 Station=0 OutputCase=ST2D CaseType=LinStatic P=-1.50900819397066 V2=-3.91127183521166 V3=0 T=0 M2=0 M3=3.87760923700989  
 FrameElem=30-1 ElemStation=0  
 Frame=30 Station=0.0625 OutputCase=ST2D CaseType=LinStatic P=-1.50900819397066 V2=-3.91127183521166 V3=0 T=0 M2=0 M3=4.12206372671062  
 FrameElem=30-1 ElemStation=0.0625  
 Frame=30 Station=0.125 OutputCase=ST2D CaseType=LinStatic P=-1.50900819397066 V2=-3.91127183521166 V3=0 T=0 M2=0 M3=4.36651821641135  
 FrameElem=30-1 ElemStation=0.125  
 Frame=30 Station=0 OutputCase=ST3D CaseType=LinStatic P=-2.12124808557564 V2=-4.77065020578448 V3=0 T=0 M2=0 M3=4.99057496422756  
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 FrameElem=30-1 ElemStation=0.0625


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 M3=2.73520916121197 FrameElem=30-1 ElemStation=0.125  
 Frame=30 Station=0 OutputCase=ST1S CaseType=LinStatic P=3.38508880836889 V2=-6.09300610073842 V3=0 T=0 M2=0 M3=-7.0046830487554  
 FrameElem=30-1 ElemStation=0  
 Frame=30 Station=0.0625 OutputCase=ST1S CaseType=LinStatic P=3.38508880836889 V2=-6.85300610073842 V3=0 T=0 M2=0 M3=-  
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 Frame=30 Station=0.125 OutputCase=ST1S CaseType=LinStatic P=3.38508880836889 V2=-7.61300610073842 V3=0 T=0 M2=0 M3=-6.14805728616309  
 FrameElem=30-1 ElemStation=0.125  
 Frame=30 Station=0 OutputCase=ST2S CaseType=LinStatic P=1.50900819391245 V2=-3.85189683269709 V3=0 T=0 M2=0 M3=-2.83500326724607  
 FrameElem=30-1 ElemStation=0  
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 Frame=30 Station=0.125 OutputCase=ST2S CaseType=LinStatic P=1.50900819391245 V2=-3.91127183269709 V3=0 T=0 M2=0 M3=-2.34856824649226  
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 FrameElem=30-1 ElemStation=0  
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 FrameElem=30-1 ElemStation=0  
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 Frame=30 Station=0 OutputCase=QM01 CaseType=LinStatic P=-97.9000000013039 V2=-5.28520159593137 V3=0 T=0 M2=0 M3=42.1235372110058  
 FrameElem=30-1 ElemStation=0  
 Frame=30 Station=0.0625 OutputCase=QM01 CaseType=LinStatic P=-97.9000000013039 V2=-5.28520159593137 V3=0 T=0 M2=0  
 M3=42.4538623107515 FrameElem=30-1 ElemStation=0.0625  
 Frame=30 Station=0.125 OutputCase=QM01 CaseType=LinStatic P=-97.9000000013039 V2=-5.28520159593137 V3=0 T=0 M2=0  
 M3=42.7841874104973 FrameElem=30-1 ElemStation=0.125  
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 FrameElem=30-1 ElemStation=0  
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 FrameElem=30-1 ElemStation=0  
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 FrameElem=30-1 ElemStation=0.125  
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 FrameElem=30-1 ElemStation=0  
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 FrameElem=30-1 ElemStation=0.0625  
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 FrameElem=30-1 ElemStation=0.125  
 Frame=30 Station=0 OutputCase=IS01 CaseType=LinStatic P=15.9356821370311 V2=25.0937500032596 V3=0 T=0 M2=0 M3=-32.3449396289652  
 FrameElem=30-1 ElemStation=0  
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APPROVATO SDP  
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 FrameElem=30-1 ElemStation=0.125  
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 FrameElem=30-1 ElemStation=0  
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 FrameElem=30-1 ElemStation=0.125  
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 FrameElem=30-1 ElemStation=0  
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 FrameElem=30-1 ElemStation=0  
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Società di Progetto  
 Brebem SpA

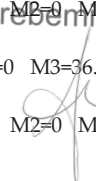


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 FrameElem=31-1 ElemStation=0.125  
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APPROVATO SGP

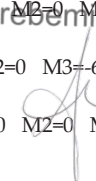
Società di Progetto  
 Brebem SpA



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 M3=9.46279070845973 FrameElem=31-1 ElemStation=0.125  
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 ElemStation=0  
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 FrameElem=31-1 ElemStation=0.0625  
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 FrameElem=32-1 ElemStation=0.125  
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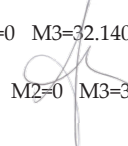
APPROVATO SDR

Società di Progetto  
**Bremi SpA**  



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 FrameElem=32-1 ElemStation=0.125  
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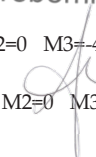





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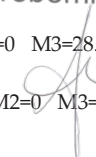
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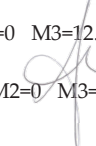
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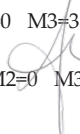
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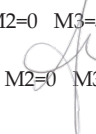
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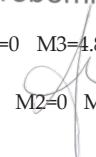
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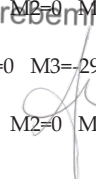
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 Frame=36 Station=0.5 OutputCase=TC02 CaseType=LinStatic P=-2.72848410531878E-12 V2=-8.48565005190608 V3=0 T=0 M2=0 M3=8.56921565184035 FrameElem=36-1 ElemStation=0.5  
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 FrameElem=36-1 ElemStation=0  
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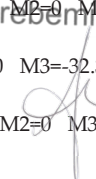
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 FrameElem=37-1 ElemStation=0.0625  
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 FrameElem=37-1 ElemStation=0.125  
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 FrameElem=37-1 ElemStation=0  
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 FrameElem=37-1 ElemStation=0.125  
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 FrameElem=37-1 ElemStation=0.125  
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 M3=1.62423292933818 FrameElem=38-1 ElemStation=0.0625  
 Frame=38 Station=0.125 OutputCase=ST4D CaseType=LinStatic P=0.945283630018821 V2=2.45000399383716 V3=0 T=0 M2=0 M3=1.47130299222335  
 FrameElem=38-1 ElemStation=0.125  
 Frame=38 Station=0 OutputCase=ST1S CaseType=LinStatic P=-3.38508880801965 V2=7.61300610331818 V3=0 T=0 M2=0 M3=-7.96396214755077  
 FrameElem=38-1 ElemStation=0  
 Frame=38 Station=0.0625 OutputCase=ST1S CaseType=LinStatic P=-3.38508880801965 V2=7.61300610331818 V3=0 T=0 M2=0 M3=-  
 8.43977502900816 FrameElem=38-1 ElemStation=0.0625  
 Frame=38 Station=0.125 OutputCase=ST1S CaseType=LinStatic P=-3.38508880801965 V2=7.61300610331818 V3=0 T=0 M2=0 M3=-8.91558791046555  
 FrameElem=38-1 ElemStation=0.125  
 Frame=38 Station=0 OutputCase=ST2S CaseType=LinStatic P=-1.50900819379603 V2=3.91127183521166 V3=0 T=0 M2=0 M3=-3.87760923698079  
 FrameElem=38-1 ElemStation=0  
 Frame=38 Station=0.0625 OutputCase=ST2S CaseType=LinStatic P=-1.50900819379603 V2=3.91127183521166 V3=0 T=0 M2=0 M3=-  
 4.12206372668152 FrameElem=38-1 ElemStation=0.0625  
 Frame=38 Station=0.125 OutputCase=ST2S CaseType=LinStatic P=-1.50900819379603 V2=3.91127183521166 V3=0 T=0 M2=0 M3=-4.36651821638225  
 FrameElem=38-1 ElemStation=0.125  
 Frame=38 Station=0 OutputCase=ST3S CaseType=LinStatic P=-2.12124808545923 V2=4.77065020625014 V3=0 T=0 M2=0 M3=-4.99057496416935  
 FrameElem=38-1 ElemStation=0  
 Frame=38 Station=0.0625 OutputCase=ST3S CaseType=LinStatic P=-2.12124808545923 V2=4.77065020625014 V3=0 T=0 M2=0 M3=-  
 5.28874060205999 FrameElem=38-1 ElemStation=0.0625  
 Frame=38 Station=0.125 OutputCase=ST3S CaseType=LinStatic P=-2.12124808545923 V2=4.77065020625014 V3=0 T=0 M2=0 M3=-5.58690623995062  
 FrameElem=38-1 ElemStation=0.125  
 Frame=38 Station=0 OutputCase=ST4S CaseType=LinStatic P=-0.944054578605574 V2=2.44301361416001 V3=0 T=0 M2=0 M3=-2.42283771243092  
 FrameElem=38-1 ElemStation=0  
 Frame=38 Station=0.0625 OutputCase=ST4S CaseType=LinStatic P=-0.944054578605574 V2=2.44301361416001 V3=0 T=0 M2=0 M3=-  
 2.57552606331592 FrameElem=38-1 ElemStation=0.0625  
 Frame=38 Station=0.125 OutputCase=ST4S CaseType=LinStatic P=-0.944054578605574 V2=2.44301361416001 V3=0 T=0 M2=0 M3=-  
 2.72821441420092 FrameElem=38-1 ElemStation=0.125  
 Frame=38 Station=0 OutputCase=QM01 CaseType=LinStatic P=-97.9000000003725 V2=5.2852015959283 V3=0 T=0 M2=0 M3=-42.1235372109506  
 FrameElem=38-1 ElemStation=0  
 Frame=38 Station=0.0625 OutputCase=QM01 CaseType=LinStatic P=-97.9000000003725 V2=5.2852015959283 V3=0 T=0 M2=0 M3=-  
 42.4538623106962 FrameElem=38-1 ElemStation=0.0625  
 Frame=38 Station=0.125 OutputCase=QM01 CaseType=LinStatic P=-97.9000000003725 V2=5.2852015959283 V3=0 T=0 M2=0 M3=-42.7841874104417  
 FrameElem=38-1 ElemStation=0.125  
 Frame=38 Station=0 OutputCase=QM02 CaseType=LinStatic P=-20.0249999997905 V2=1.0810639628026 V3=0 T=0 M2=0 M3=-8.61617806587533  
 FrameElem=38-1 ElemStation=0  
 Frame=38 Station=0.0625 OutputCase=QM02 CaseType=LinStatic P=-20.0249999997905 V2=1.0810639628026 V3=0 T=0 M2=0 M3=-  
 8.68374456355049 FrameElem=38-1 ElemStation=0.0625  
 Frame=38 Station=0.125 OutputCase=QM02 CaseType=LinStatic P=-20.0249999997905 V2=1.0810639628026 V3=0 T=0 M2=0 M3=-8.75131106122566  
 FrameElem=38-1 ElemStation=0.125  
 Frame=38 Station=0 OutputCase=SQMD CaseType=LinStatic P=4.16235879727174 V2=7.06650941632688 V3=0 T=0 M2=0 M3=8.72083732890314  
 FrameElem=38-1 ElemStation=0  
 Frame=38 Station=0.0625 OutputCase=SQMD CaseType=LinStatic P=4.16235879727174 V2=8.11135316632688 V3=0 T=0 M2=0  
 M3=8.24658608934105 FrameElem=38-1 ElemStation=0.0625  
 Frame=38 Station=0.125 OutputCase=SQMD CaseType=LinStatic P=4.16235879727174 V2=9.16713441632688 V3=0 T=0 M2=0 M3=7.70669031852895  
 FrameElem=38-1 ElemStation=0.125  
 Frame=38 Station=0 OutputCase=SQMS CaseType=LinStatic P=-4.16235879715532 V2=9.16713442001492 V3=0 T=0 M2=0 M3=-9.6699145273451  
 FrameElem=38-1 ElemStation=0  
 Frame=38 Station=0.0625 OutputCase=SQMS CaseType=LinStatic P=-4.16235879715532 V2=9.16713442001492 V3=0 T=0 M2=0 M3=-  
 10.242860428596 FrameElem=38-1 ElemStation=0.0625  
 Frame=38 Station=0.125 OutputCase=SQMS CaseType=LinStatic P=-4.16235879715532 V2=9.16713442001492 V3=0 T=0 M2=0 M3=-10.815806329847  
 FrameElem=38-1 ElemStation=0.125  
 Frame=38 Station=0 OutputCase=FA01 CaseType=LinStatic P=-4.97891539055854 V2=8.67750000092201 V3=0 T=0 M2=0 M3=-9.99339924428205  
 FrameElem=38-1 ElemStation=0  
 Frame=38 Station=0.0625 OutputCase=FA01 CaseType=LinStatic P=-4.97891539055854 V2=8.67750000092201 V3=0 T=0 M2=0 M3=-  
 10.5357429943397 FrameElem=38-1 ElemStation=0.0625  
 Frame=38 Station=0.125 OutputCase=FA01 CaseType=LinStatic P=-4.97891539055854 V2=8.67750000092201 V3=0 T=0 M2=0 M3=-11.0780867443973  
 FrameElem=38-1 ElemStation=0.125  
 Frame=38 Station=0 OutputCase=IS01 CaseType=LinStatic P=-15.9356821370311 V2=25.093750004191 V3=0 T=0 M2=0 M3=-32.3449396287906  
 FrameElem=38-1 ElemStation=0  
 Frame=38 Station=0.0625 OutputCase=IS01 CaseType=LinStatic P=-15.9356821370311 V2=24.895625004191 V3=0 T=0 M2=0 M3=-33.9071075978025  
 FrameElem=38-1 ElemStation=0.0625

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Frame=38 Station=0.125 OutputCase=IS01 CaseType=LinStatic P=-15.9356821370311 V2=24.697500004191 V3=0 T=0 M2=0 M3=-35.4568927543145  
FrameElem=38-1 ElemStation=0.125  
Frame=38 Station=0 OutputCase=SSTS CaseType=LinStatic P=-6.80079930787906 V2=15.294879859779 V3=0 T=0 M2=0 M3=-15.9999667159282  
FrameElem=38-1 ElemStation=0  
Frame=38 Station=0.0625 OutputCase=SSTS CaseType=LinStatic P=-6.80079930787906 V2=15.294879859779 V3=0 T=0 M2=0 M3=-16.9558967071644  
FrameElem=38-1 ElemStation=0.0625  
Frame=38 Station=0.125 OutputCase=SSTS CaseType=LinStatic P=-6.80079930787906 V2=15.294879859779 V3=0 T=0 M2=0 M3=-17.9118266984005  
FrameElem=38-1 ElemStation=0.125  
Frame=38 Station=0 OutputCase=TC01 CaseType=LinStatic P=1.81898940354586E-12 V2=8.48565005190721 V3=0 T=0 M2=0 M3=-9.62992190832892  
FrameElem=38-1 ElemStation=0  
Frame=38 Station=0.0625 OutputCase=TC01 CaseType=LinStatic P=1.81898940354586E-12 V2=8.48565005190721 V3=0 T=0 M2=0 M3=-  
10.1602750365731 FrameElem=38-1 ElemStation=0.0625  
Frame=38 Station=0.125 OutputCase=TC01 CaseType=LinStatic P=1.81898940354586E-12 V2=8.48565005190721 V3=0 T=0 M2=0 M3=-  
10.6906281648173 FrameElem=38-1 ElemStation=0.125  
Frame=38 Station=0 OutputCase=TC02 CaseType=LinStatic P=-1.81898940354586E-12 V2=-8.48565005190721 V3=0 T=0 M2=0 M3=9.62992190832892  
FrameElem=38-1 ElemStation=0  
Frame=38 Station=0.0625 OutputCase=TC02 CaseType=LinStatic P=-1.81898940354586E-12 V2=-8.48565005190721 V3=0 T=0 M2=0  
M3=10.1602750365731 FrameElem=38-1 ElemStation=0.0625  
Frame=38 Station=0.125 OutputCase=TC02 CaseType=LinStatic P=-1.81898940354586E-12 V2=-8.48565005190721 V3=0 T=0 M2=0  
M3=10.6906281648173 FrameElem=38-1 ElemStation=0.125  
Frame=38 Station=0 OutputCase=TV01 CaseType=LinStatic P=-3.41060513164848E-13 V2=-5.34531408241126 V3=0 T=0 M2=0 M3=10.9260813167983  
FrameElem=38-1 ElemStation=0  
Frame=38 Station=0.0625 OutputCase=TV01 CaseType=LinStatic P=-3.41060513164848E-13 V2=-5.34531408241126 V3=0 T=0 M2=0  
M3=11.260163446949 FrameElem=38-1 ElemStation=0.0625  
Frame=38 Station=0.125 OutputCase=TV01 CaseType=LinStatic P=-3.41060513164848E-13 V2=-5.34531408241126 V3=0 T=0 M2=0  
M3=11.5942455770997 FrameElem=38-1 ElemStation=0.125  
Frame=38 Station=0 OutputCase=TV02 CaseType=LinStatic P=3.41060513164848E-13 V2=5.34531408241126 V3=0 T=0 M2=0 M3=-10.9260813167983  
FrameElem=38-1 ElemStation=0  
Frame=38 Station=0.0625 OutputCase=TV02 CaseType=LinStatic P=3.41060513164848E-13 V2=5.34531408241126 V3=0 T=0 M2=0 M3=-  
11.260163446949 FrameElem=38-1 ElemStation=0.0625  
Frame=38 Station=0.125 OutputCase=TV02 CaseType=LinStatic P=3.41060513164848E-13 V2=5.34531408241126 V3=0 T=0 M2=0 M3=-  
11.5942455770997 FrameElem=38-1 ElemStation=0.125  
Frame=38 Station=0 OutputCase=PPAQ CaseType=LinStatic P=0 V2=1.57377416005782 V3=0 T=0 M2=0 M3=-0.332393003410377 FrameElem=38-1  
ElemStation=0  
Frame=38 Station=0.0625 OutputCase=PPAQ CaseType=LinStatic P=0 V2=1.57377416005782 V3=0 T=0 M2=0 M3=-0.43075388841399  
FrameElem=38-1 ElemStation=0.0625  
Frame=38 Station=0.125 OutputCase=PPAQ CaseType=LinStatic P=0 V2=1.57377416005782 V3=0 T=0 M2=0 M3=-0.529114773417604  
FrameElem=38-1 ElemStation=0.125

TABLE: "ELEMENT JOINT FORCES - FRAMES"

Frame=1 Joint=1 OutputCase=PPST CaseType=LinStatic F1=-2.12689961671231E-04 F2=0 F3=3.37166827181994 M1=0 M2=-9.77218306275063E-12  
M3=0 FrameElem=1  
Frame=1 Joint=2 OutputCase=PPST CaseType=LinStatic F1=2.12689961671231E-04 F2=0 F3=-0.871668271819944 M1=0 M2=-0.424333654354162  
M3=0 FrameElem=1  
Frame=1 Joint=1 OutputCase=PPNS CaseType=LinStatic F1=-6.865127013711E-05 F2=0 F3=2.86531685576318 M1=0 M2=-1.71052061403998E-12  
M3=0 FrameElem=1  
Frame=1 Joint=2 OutputCase=PPNS CaseType=LinStatic F1=6.865127013711E-05 F2=0 F3=12.5346831442368 M1=0 M2=0.966936628837521 M3=0  
FrameElem=1  
Frame=1 Joint=1 OutputCase=ST1D CaseType=LinStatic F1=15.1994820414111 F2=0 F3=0.770861521835286 M1=0 M2=-2.72848410531878E-12 M3=0  
FrameElem=1  
Frame=1 Joint=2 OutputCase=ST1D CaseType=LinStatic F1=-15.1994820414111 F2=0 F3=-0.770861521835286 M1=0 M2=-0.154172304359236 M3=0  
FrameElem=1  
Frame=1 Joint=1 OutputCase=ST2D CaseType=LinStatic F1=11.8744563206565 F2=0 F3=0.40129299588034 M1=0 M2=4.54747350886464E-13 M3=0  
FrameElem=1  
Frame=1 Joint=2 OutputCase=ST2D CaseType=LinStatic F1=-11.8744563206565 F2=0 F3=-0.40129299588034 M1=0 M2=-8.02585991750675E-02 M3=0  
FrameElem=1  
Frame=1 Joint=1 OutputCase=ST3D CaseType=LinStatic F1=9.5246754239779 F2=0 F3=0.483056315480098 M1=0 M2=-2.27373675443232E-12 M3=0  
FrameElem=1  
Frame=1 Joint=2 OutputCase=ST3D CaseType=LinStatic F1=-9.5246754239779 F2=0 F3=-0.483056315480098 M1=0 M2=-9.66112630940188E-02 M3=0  
FrameElem=1  
Frame=1 Joint=1 OutputCase=ST4D CaseType=LinStatic F1=7.43778446386568 F2=0 F3=0.251367853349166 M1=0 M2=-4.54747350886464E-13 M3=0  
FrameElem=1  
Frame=1 Joint=2 OutputCase=ST4D CaseType=LinStatic F1=-7.43778446386568 F2=0 F3=-0.251367853349166 M1=0 M2=-5.02735706706972E-02  
M3=0 FrameElem=1  
Frame=1 Joint=1 OutputCase=ST1S CaseType=LinStatic F1=-15.2005179682747 F2=0 F3=-0.772598600759011 M1=0 M2=-9.09494701772928E-13  
M3=0 FrameElem=1



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Frame=1 Joint=2 OutputCase=ST1S CaseType=LinStatic F1=15.2005179682747 F2=0 F3=0.772598600759011 M1=0 M2=0.154519720151256 M3=0  
FrameElem=1  
Frame=1 Joint=1 OutputCase=ST2S CaseType=LinStatic F1=-11.8755436863285 F2=0 F3=-0.402741316304855 M1=0 M2=-9.09494701772928E-13  
M3=0 FrameElem=1  
Frame=1 Joint=2 OutputCase=ST2S CaseType=LinStatic F1=11.8755436863285 F2=0 F3=0.402741316304855 M1=0 M2=8.05482632622443E-02 M3=0  
FrameElem=1  
Frame=1 Joint=1 OutputCase=ST3S CaseType=LinStatic F1=-9.52532458212227 F2=0 F3=-0.484144846876006 M1=0 M2=-4.54747350886464E-13  
M3=0 FrameElem=1  
Frame=1 Joint=2 OutputCase=ST3S CaseType=LinStatic F1=9.52532458212227 F2=0 F3=0.484144846876006 M1=0 M2=9.68289693723818E-02 M3=0  
FrameElem=1  
Frame=1 Joint=1 OutputCase=ST4S CaseType=LinStatic F1=-7.06656563002616 F2=0 F3=-0.251643708306347 M1=0 M2=1.59161572810262E-12 M3=0  
FrameElem=1  
Frame=1 Joint=2 OutputCase=ST4S CaseType=LinStatic F1=7.06656563002616 F2=0 F3=0.251643708306347 M1=0 M2=0.050328741658177 M3=0  
FrameElem=1  
Frame=1 Joint=1 OutputCase=QM01 CaseType=LinStatic F1=3.60820204441836E-04 F2=0 F3=3.71607186417043 M1=0 M2=4.60431692772545E-12  
M3=0 FrameElem=1  
Frame=1 Joint=2 OutputCase=QM01 CaseType=LinStatic F1=-3.60820204441836E-04 F2=0 F3=-3.71607186417043 M1=0 M2=-0.743214372829868  
M3=0 FrameElem=1  
Frame=1 Joint=1 OutputCase=QM02 CaseType=LinStatic F1=7.38041327252859E-05 F2=0 F3=0.760105608596916 M1=0 M2=2.30215846386272E-12  
M3=0 FrameElem=1  
Frame=1 Joint=2 OutputCase=QM02 CaseType=LinStatic F1=-7.38041327252859E-05 F2=0 F3=-0.760105608596916 M1=0 M2=-0.15202112172021  
M3=0 FrameElem=1  
Frame=1 Joint=1 OutputCase=SQMD CaseType=LinStatic F1=16.7791677964851 F2=0 F3=0.926257844443171 M1=0 M2=-5.45696821063757E-12  
M3=0 FrameElem=1  
Frame=1 Joint=2 OutputCase=SQMD CaseType=LinStatic F1=-16.7791677964851 F2=0 F3=-0.926257844443171 M1=0 M2=-0.185251568883359 M3=0  
FrameElem=1  
Frame=1 Joint=1 OutputCase=SQMS CaseType=LinStatic F1=-16.7802072130144 F2=0 F3=-0.928141240714467 M1=0 M2=2.72848410531878E-12  
M3=0 FrameElem=1  
Frame=1 Joint=2 OutputCase=SQMS CaseType=LinStatic F1=16.7802072130144 F2=0 F3=0.928141240714467 M1=0 M2=0.185628248137618 M3=0  
FrameElem=1  
Frame=1 Joint=1 OutputCase=FA01 CaseType=LinStatic F1=-8.67750000278465 F2=0 F3=-0.88081683582277 M1=0 M2=-6.3664629124105E-12 M3=0  
FrameElem=1  
Frame=1 Joint=2 OutputCase=FA01 CaseType=LinStatic F1=8.67750000278465 F2=0 F3=0.88081683582277 M1=0 M2=0.176163367159461 M3=0  
FrameElem=1  
Frame=1 Joint=1 OutputCase=IS01 CaseType=LinStatic F1=-32.6225000107661 F2=0 F3=-2.90930606311304 M1=0 M2=2.72848410531878E-11 M3=0  
FrameElem=1  
Frame=1 Joint=2 OutputCase=IS01 CaseType=LinStatic F1=32.6225000107661 F2=0 F3=2.90930606311304 M1=0 M2=0.581861212594958 M3=0  
FrameElem=1  
Frame=1 Joint=1 OutputCase=SSTS CaseType=LinStatic F1=-30.5385406212881 F2=0 F3=-1.55218616921411 M1=0 M2=0 M3=0 FrameElem=1  
Frame=1 Joint=2 OutputCase=SSTS CaseType=LinStatic F1=30.5385406212881 F2=0 F3=1.55218616921411 M1=0 M2=0.310437233825724 M3=0  
FrameElem=1  
Frame=1 Joint=1 OutputCase=TC01 CaseType=LinStatic F1=5.79314516812701E-04 F2=0 F3=6.76416078098896E-03 M1=0 M2=1.4210854715202E-14  
M3=0 FrameElem=1  
Frame=1 Joint=2 OutputCase=TC01 CaseType=LinStatic F1=-5.79314516812701E-04 F2=0 F3=-6.76416078098896E-03 M1=0 M2=-1.35283215621484E-  
03 M3=0 FrameElem=1  
Frame=1 Joint=1 OutputCase=TC02 CaseType=LinStatic F1=-5.79314516812701E-04 F2=0 F3=-6.76416078098896E-03 M1=0 M2=-1.4210854715202E-14  
M3=0 FrameElem=1  
Frame=1 Joint=2 OutputCase=TC02 CaseType=LinStatic F1=5.79314516812701E-04 F2=0 F3=6.76416078098896E-03 M1=0 M2=1.35283215621484E-03  
M3=0 FrameElem=1  
Frame=1 Joint=1 OutputCase=TV01 CaseType=LinStatic F1=-3.64924078098738E-04 F2=0 F3=-1.13708100229815E-03 M1=0 M2=-3.5527136788005E-15  
M3=0 FrameElem=1  
Frame=1 Joint=2 OutputCase=TV01 CaseType=LinStatic F1=3.64924078098738E-04 F2=0 F3=1.13708100229815E-03 M1=0 M2=2.27416200466735E-04  
M3=0 FrameElem=1  
Frame=1 Joint=1 OutputCase=TV02 CaseType=LinStatic F1=3.64924078098738E-04 F2=0 F3=1.13708100229815E-03 M1=0 M2=3.5527136788005E-15  
M3=0 FrameElem=1  
Frame=1 Joint=2 OutputCase=TV02 CaseType=LinStatic F1=-3.64924078098738E-04 F2=0 F3=-1.13708100229815E-03 M1=0 M2=-2.27416200466735E-  
04 M3=0 FrameElem=1  
Frame=1 Joint=1 OutputCase=PPAQ CaseType=LinStatic F1=1.07441410424514E-04 F2=0 F3=0.753248988906122 M1=0 M2=-6.12843109593086E-13  
M3=0 FrameElem=1  
Frame=1 Joint=2 OutputCase=PPAQ CaseType=LinStatic F1=-1.07441410424514E-04 F2=0 F3=-0.753248988906122 M1=0 M2=6.12843109593086E-13  
M3=0 FrameElem=1  
Frame=2 Joint=2 OutputCase=PPST CaseType=LinStatic F1=-2.12689961664125E-04 F2=0 F3=6.13749375379916 M1=0 M2=0.424333654340614 M3=0  
FrameElem=2  
Frame=2 Joint=3 OutputCase=PPST CaseType=LinStatic F1=2.12689961664125E-04 F2=0 F3=-4.73124375379916 M1=0 M2=-1.03570013914307 M3=0  
FrameElem=2

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Frame=2 Joint=2 OutputCase=PPNS CaseType=LinStatic F1=-6.86512701335573E-05 F2=0 F3=-8.06175421196241 M1=0 M2=-0.966936628832741 M3=0 FrameElem=2

Frame=2 Joint=3 OutputCase=PPNS CaseType=LinStatic F1=6.86512701335573E-05 F2=0 F3=8.06175421196241 M1=0 M2=1.87388397769007 M3=0 FrameElem=2

Frame=2 Joint=2 OutputCase=ST1D CaseType=LinStatic F1=15.1994820414111 F2=0 F3=1.88386538153918 M1=0 M2=0.154172304362874 M3=0 FrameElem=2

Frame=2 Joint=3 OutputCase=ST1D CaseType=LinStatic F1=-15.1994820414111 F2=0 F3=-1.88386538153918 M1=0 M2=-0.366107159779858 M3=0 FrameElem=2

Frame=2 Joint=2 OutputCase=ST2D CaseType=LinStatic F1=11.8744563204236 F2=0 F3=0.980718006763709 M1=0 M2=0.080258599175977 M3=0 FrameElem=2

Frame=2 Joint=3 OutputCase=ST2D CaseType=LinStatic F1=-11.8744563204236 F2=0 F3=-0.980718006763709 M1=0 M2=-0.190589374934461 M3=0 FrameElem=2

Frame=2 Joint=2 OutputCase=ST3D CaseType=LinStatic F1=9.52467542374507 F2=0 F3=1.18051432622542 M1=0 M2=9.66112630958378E-02 M3=0 FrameElem=2

Frame=2 Joint=3 OutputCase=ST3D CaseType=LinStatic F1=-9.52467542374507 F2=0 F3=-1.18051432622542 M1=0 M2=-0.229419124792003 M3=0 FrameElem=2

Frame=2 Joint=2 OutputCase=ST4D CaseType=LinStatic F1=7.43778446363285 F2=0 F3=0.614316675018017 M1=0 M2=5.02735706709245E-02 M3=0 FrameElem=2

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Frame=7 Joint=8 OutputCase=ST1S CaseType=LinStatic F1=-7.58647593256319 F2=0 F3=6.81369869020136 M1=0 M2=-1.34204946964928 M3=0  
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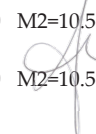
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Società di Progetto  
 Brebeni SpA





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Frame=12 Joint=12 OutputCase=QM02 CaseType=LinStatic F1=7.38041327288386E-05 F2=0 F3=-2.80068290430343 M1=0 M2=0.686105231719864 M3=0 FrameElem=12

Frame=12 Joint=13 OutputCase=QM02 CaseType=LinStatic F1=-7.38041327288386E-05 F2=0 F3=2.80068290430343 M1=0 M2=-0.371028404985012 M3=0 FrameElem=12

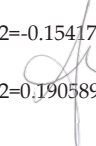
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Frame=12 Joint=13 OutputCase=SQMD CaseType=LinStatic F1=16.7802072111517 F2=0 F3=-3.18768625715347 M1=0 M2=0.440761442685471 M3=0 FrameElem=12

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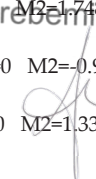
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Società di Progetto  
Bresini SpA



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Società di Progetto  
 Bresbeni SPA  


Frame=14 Joint=14 OutputCase=ST1D CaseType=LinStatic F1=-15.200517967809 F2=0 F3=0.772598600808124 M1=0 M2=-0.154519720154894 M3=0  
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Frame=14 Joint=15 OutputCase=SQMS CaseType=LinStatic F1=-16.7791677969508 F2=0 F3=0.926257844397696 M1=0 M2=7.27595761418343E-12  
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Frame=14 Joint=15 OutputCase=SSTS CaseType=LinStatic F1=-30.5364593975246 F2=0 F3=1.54869629745372 M1=0 M2=5.45696821063757E-12 M3=0  
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Frame=14 Joint=15 OutputCase=TC01 CaseType=LinStatic F1=-5.7931450848514E-04 F2=0 F3=6.76416077985209E-03 M1=0 M2=0 M3=0  
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Frame=14 Joint=14 OutputCase=TC02 CaseType=LinStatic F1=5.7931450848514E-04 F2=0 F3=-6.76416077985209E-03 M1=0 M2=-1.35283215594484E-  
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APPROVATO  
Società M-Projekt  
Brebemi SpA



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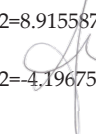
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Società di Progetto  
 Brebeni SpA





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M3=0 FrameElem=25  
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FrameElem=28  
Frame=28 Joint=30 OutputCase=QM02 CaseType=LinStatic F1=-1.08106396280314 F2=0 F3=-20.0250000004598 M1=0 M2=8.48104507053358 M3=0  
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Frame=28 Joint=29 OutputCase=SQMD CaseType=LinStatic F1=9.16713441993397 F2=0 F3=4.16235879794112 M1=0 M2=-3.94045551489353 M3=0  
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Società di Progetto  
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Frame=32 Joint=33 OutputCase=TV02 CaseType=LinStatic F1=5.34531408241111 F2=0 F3=0 M1=0 M2=0.432711108325485 M3=0 FrameElem=32  
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M3=0 FrameElem=32  
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FrameElem=33  
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Frame=33 Joint=33 OutputCase=IS01 CaseType=LinStatic F1=-31.8300000035492 F2=0 F3=15.9356821370311 M1=0 M2=-28.1365447540217 M3=0  
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FrameElem=38

Frame=38 Joint=38 OutputCase=ST3D CaseType=LinStatic F1=-3.81815020396578 F2=0 F3=-2.12124808551744 M1=0 M2=-4.38944776567374 M3=0  
FrameElem=38

Frame=38 Joint=24 OutputCase=ST3D CaseType=LinStatic F1=4.77065020396578 F2=0 F3=2.12124808551744 M1=0 M2=3.85264774017802 M3=0  
FrameElem=38

Frame=38 Joint=38 OutputCase=ST4D CaseType=LinStatic F1=-2.41250399391534 F2=0 F3=-0.945283630018821 M1=0 M2=-1.77599099145478 M3=0  
FrameElem=38

Frame=38 Joint=24 OutputCase=ST4D CaseType=LinStatic F1=2.45000399391534 F2=0 F3=0.945283630018821 M1=0 M2=1.4713029922153 M3=0  
FrameElem=38

Frame=38 Joint=38 OutputCase=ST15 CaseType=LinStatic F1=-7.61300610337366 F2=0 F3=3.38508880801965 M1=0 M2=7.96396214754986 M3=0  
FrameElem=38





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Frame=38 Joint=24 OutputCase=ST1S CaseType=LinStatic F1=7.61300610337366 F2=0 F3=-3.38508880801965 M1=0 M2=-8.91558791047191 M3=0  
FrameElem=38  
Frame=38 Joint=38 OutputCase=ST2S CaseType=LinStatic F1=-3.9112718351148 F2=0 F3=1.50900819379603 M1=0 M2=3.87760923698488 M3=0  
FrameElem=38  
Frame=38 Joint=24 OutputCase=ST2S CaseType=LinStatic F1=3.9112718351148 F2=0 F3=-1.50900819379603 M1=0 M2=-4.36651821635951 M3=0  
FrameElem=38  
Frame=38 Joint=38 OutputCase=ST3S CaseType=LinStatic F1=-4.77065020627379 F2=0 F3=2.12124808545923 M1=0 M2=4.99057496416845 M3=0  
FrameElem=38  
Frame=38 Joint=24 OutputCase=ST3S CaseType=LinStatic F1=4.77065020627379 F2=0 F3=-2.12124808545923 M1=0 M2=-5.5869062399529 M3=0  
FrameElem=38  
Frame=38 Joint=38 OutputCase=ST4S CaseType=LinStatic F1=-2.44301361417138 F2=0 F3=0.944054578605574 M1=0 M2=2.42283771243342 M3=0  
FrameElem=38  
Frame=38 Joint=24 OutputCase=ST4S CaseType=LinStatic F1=2.44301361417138 F2=0 F3=-0.944054578605574 M1=0 M2=-2.72821441420501 M3=0  
FrameElem=38  
Frame=38 Joint=38 OutputCase=QM01 CaseType=LinStatic F1=-5.2852015959283 F2=0 F3=97.9000000003725 M1=0 M2=42.1235372109506 M3=0  
FrameElem=38  
Frame=38 Joint=24 OutputCase=QM01 CaseType=LinStatic F1=5.2852015959283 F2=0 F3=-97.9000000003725 M1=0 M2=-42.7841874104417 M3=0  
FrameElem=38  
Frame=38 Joint=38 OutputCase=QM02 CaseType=LinStatic F1=-1.0810639628026 F2=0 F3=20.0249999997905 M1=0 M2=8.61617806587533 M3=0  
FrameElem=38  
Frame=38 Joint=24 OutputCase=QM02 CaseType=LinStatic F1=1.0810639628026 F2=0 F3=-20.0249999997905 M1=0 M2=-8.75131106122568 M3=0  
FrameElem=38  
Frame=38 Joint=38 OutputCase=SQMD CaseType=LinStatic F1=-7.06650941628925 F2=0 F3=-4.16235879727174 M1=0 M2=-8.72083732890731 M3=0  
FrameElem=38  
Frame=38 Joint=24 OutputCase=SQMD CaseType=LinStatic F1=9.16713441628925 F2=0 F3=4.16235879727174 M1=0 M2=7.70669031855283 M3=0  
FrameElem=38  
Frame=38 Joint=38 OutputCase=SQMS CaseType=LinStatic F1=-9.16713442001128 F2=0 F3=4.16235879715532 M1=0 M2=9.66991452734601 M3=0  
FrameElem=38  
Frame=38 Joint=24 OutputCase=SQMS CaseType=LinStatic F1=9.16713442001128 F2=0 F3=-4.16235879715532 M1=0 M2=-10.815806329847 M3=0  
FrameElem=38  
Frame=38 Joint=38 OutputCase=FA01 CaseType=LinStatic F1=-8.67750000095293 F2=0 F3=4.97891539055854 M1=0 M2=9.99339924428659 M3=0  
FrameElem=38  
Frame=38 Joint=24 OutputCase=FA01 CaseType=LinStatic F1=8.67750000095293 F2=0 F3=-4.97891539055854 M1=0 M2=-11.0780867443982 M3=0  
FrameElem=38  
Frame=38 Joint=38 OutputCase=IS01 CaseType=LinStatic F1=-25.0937500042211 F2=0 F3=15.9356821370311 M1=0 M2=32.3449396287905 M3=0  
FrameElem=38  
Frame=38 Joint=24 OutputCase=IS01 CaseType=LinStatic F1=24.6975000042211 F2=0 F3=-15.9356821370311 M1=0 M2=-35.4568927542895 M3=0  
FrameElem=38  
Frame=38 Joint=38 OutputCase=SSTS CaseType=LinStatic F1=-15.2948798596681 F2=0 F3=6.80079930787906 M1=0 M2=15.9999667159191 M3=0  
FrameElem=38  
Frame=38 Joint=24 OutputCase=SSTS CaseType=LinStatic F1=15.2948798596681 F2=0 F3=-6.80079930787906 M1=0 M2=-17.911826698406 M3=0  
FrameElem=38  
Frame=38 Joint=38 OutputCase=TC01 CaseType=LinStatic F1=-8.48565005190667 F2=0 F3=-1.81898940354586E-12 M1=0 M2=9.62992190832887  
M3=0 FrameElem=38  
Frame=38 Joint=24 OutputCase=TC01 CaseType=LinStatic F1=8.48565005190667 F2=0 F3=1.81898940354586E-12 M1=0 M2=-10.6906281648173  
M3=0 FrameElem=38  
Frame=38 Joint=38 OutputCase=TC02 CaseType=LinStatic F1=-8.48565005190667 F2=0 F3=1.81898940354586E-12 M1=0 M2=-9.62992190832887  
M3=0 FrameElem=38  
Frame=38 Joint=24 OutputCase=TC02 CaseType=LinStatic F1=8.48565005190667 F2=0 F3=-1.81898940354586E-12 M1=0 M2=10.6906281648173  
M3=0 FrameElem=38  
Frame=38 Joint=38 OutputCase=TV01 CaseType=LinStatic F1=5.34531408241126 F2=0 F3=3.41060513164848E-13 M1=0 M2=-10.9260813167983  
M3=0 FrameElem=38  
Frame=38 Joint=24 OutputCase=TV01 CaseType=LinStatic F1=-5.34531408241126 F2=0 F3=-3.41060513164848E-13 M1=0 M2=11.5942455770997  
M3=0 FrameElem=38  
Frame=38 Joint=38 OutputCase=TV02 CaseType=LinStatic F1=-5.34531408241126 F2=0 F3=3.41060513164848E-13 M1=0 M2=10.9260813167983  
M3=0 FrameElem=38  
Frame=38 Joint=24 OutputCase=TV02 CaseType=LinStatic F1=5.34531408241126 F2=0 F3=-3.41060513164848E-13 M1=0 M2=-11.5942455770997  
M3=0 FrameElem=38  
Frame=38 Joint=38 OutputCase=PPAQ CaseType=LinStatic F1=-1.57377416005782 F2=0 F3=0 M1=0 M2=0.332393003410377 M3=0 FrameElem=38  
Frame=38 Joint=24 OutputCase=PPAQ CaseType=LinStatic F1=1.57377416005782 F2=0 F3=0 M1=0 M2=-0.52911473417604 M3=0 FrameElem=38

TABLE: "OBJECTS AND ELEMENTS - JOINTS"

JointElem=1 JointObject=1 GlobalX=-2.65 GlobalY=0 GlobalZ=0  
JointElem=2 JointObject=2 GlobalX=-2.45 GlobalY=0 GlobalZ=0  
JointElem=3 JointObject=3 GlobalX=-2.3375 GlobalY=0 GlobalZ=0  
JointElem=4 JointObject=4 GlobalX=-2.225 GlobalY=0 GlobalZ=0

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JointElem=5 JointObject=5 GlobalX=-2.1125 GlobalY=0 GlobalZ=0  
 JointElem=6 JointObject=6 GlobalX=-2 GlobalY=0 GlobalZ=0  
 JointElem=7 JointObject=7 GlobalX=-1 GlobalY=0 GlobalZ=0  
 JointElem=8 JointObject=8 GlobalX=0 GlobalY=0 GlobalZ=0  
 JointElem=9 JointObject=9 GlobalX=1 GlobalY=0 GlobalZ=0  
 JointElem=10 JointObject=10 GlobalX=2 GlobalY=0 GlobalZ=0  
 JointElem=11 JointObject=11 GlobalX=2.1125 GlobalY=0 GlobalZ=0  
 JointElem=12 JointObject=12 GlobalX=2.225 GlobalY=0 GlobalZ=0  
 JointElem=13 JointObject=13 GlobalX=2.3375 GlobalY=0 GlobalZ=0  
 JointElem=14 JointObject=14 GlobalX=2.45 GlobalY=0 GlobalZ=0  
 JointElem=15 JointObject=15 GlobalX=2.65 GlobalY=0 GlobalZ=0  
 JointElem=16 JointObject=16 GlobalX=-2.225 GlobalY=0 GlobalZ=2.5  
 JointElem=17 JointObject=17 GlobalX=-2.1125 GlobalY=0 GlobalZ=2.5  
 JointElem=18 JointObject=18 GlobalX=-2 GlobalY=0 GlobalZ=2.5  
 JointElem=19 JointObject=19 GlobalX=-1 GlobalY=0 GlobalZ=2.5  
 JointElem=20 JointObject=20 GlobalX=0 GlobalY=0 GlobalZ=2.5  
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 JointElem=22 JointObject=22 GlobalX=2 GlobalY=0 GlobalZ=2.5  
 JointElem=23 JointObject=23 GlobalX=2.1125 GlobalY=0 GlobalZ=2.5  
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 JointElem=25 JointObject=25 GlobalX=-2.225 GlobalY=0 GlobalZ=0.125  
 JointElem=26 JointObject=26 GlobalX=-2.225 GlobalY=0 GlobalZ=0.25  
 JointElem=27 JointObject=27 GlobalX=-2.225 GlobalY=0 GlobalZ=0.75  
 JointElem=28 JointObject=28 GlobalX=-2.225 GlobalY=0 GlobalZ=1.25  
 JointElem=29 JointObject=29 GlobalX=-2.225 GlobalY=0 GlobalZ=1.75  
 JointElem=30 JointObject=30 GlobalX=-2.225 GlobalY=0 GlobalZ=2.25  
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 JointElem=32 JointObject=32 GlobalX=2.225 GlobalY=0 GlobalZ=0.125  
 JointElem=33 JointObject=33 GlobalX=2.225 GlobalY=0 GlobalZ=0.25  
 JointElem=34 JointObject=34 GlobalX=2.225 GlobalY=0 GlobalZ=0.75  
 JointElem=35 JointObject=35 GlobalX=2.225 GlobalY=0 GlobalZ=1.25  
 JointElem=36 JointObject=36 GlobalX=2.225 GlobalY=0 GlobalZ=1.75  
 JointElem=37 JointObject=37 GlobalX=2.225 GlobalY=0 GlobalZ=2.25  
 JointElem=38 JointObject=38 GlobalX=2.225 GlobalY=0 GlobalZ=2.375

TABLE: "OBJECTS AND ELEMENTS - FRAMES"

FrameElem=1-1 FrameObject=1 ElemJtl=1 ElemJtj=2  
 FrameElem=2-1 FrameObject=2 ElemJtl=2 ElemJtj=3  
 FrameElem=3-1 FrameObject=3 ElemJtl=3 ElemJtj=4  
 FrameElem=4-1 FrameObject=4 ElemJtl=4 ElemJtj=5  
 FrameElem=5-1 FrameObject=5 ElemJtl=5 ElemJtj=6  
 FrameElem=6-1 FrameObject=6 ElemJtl=6 ElemJtj=7  
 FrameElem=7-1 FrameObject=7 ElemJtl=7 ElemJtj=8  
 FrameElem=8-1 FrameObject=8 ElemJtl=8 ElemJtj=9  
 FrameElem=9-1 FrameObject=9 ElemJtl=9 ElemJtj=10  
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 FrameElem=13-1 FrameObject=13 ElemJtl=13 ElemJtj=14  
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 FrameElem=21-1 FrameObject=21 ElemJtl=22 ElemJtj=23  
 FrameElem=22-1 FrameObject=22 ElemJtl=23 ElemJtj=24  
 FrameElem=23-1 FrameObject=23 ElemJtl=4 ElemJtj=25  
 FrameElem=24-1 FrameObject=24 ElemJtl=25 ElemJtj=26  
 FrameElem=25-1 FrameObject=25 ElemJtl=26 ElemJtj=27  
 FrameElem=26-1 FrameObject=26 ElemJtl=27 ElemJtj=28  
 FrameElem=27-1 FrameObject=27 ElemJtl=28 ElemJtj=29  
 FrameElem=28-1 FrameObject=28 ElemJtl=29 ElemJtj=30  
 FrameElem=29-1 FrameObject=29 ElemJtl=30 ElemJtj=31  
 FrameElem=30-1 FrameObject=30 ElemJtl=31 ElemJtj=16

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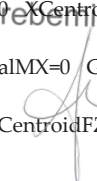



FrameElem=31-1 FrameObject=31 ElemJtl=12 ElemJtj=32  
 FrameElem=32-1 FrameObject=32 ElemJtl=32 ElemJtj=33  
 FrameElem=33-1 FrameObject=33 ElemJtl=33 ElemJtj=34  
 FrameElem=34-1 FrameObject=34 ElemJtl=34 ElemJtj=35  
 FrameElem=35-1 FrameObject=35 ElemJtl=35 ElemJtj=36  
 FrameElem=36-1 FrameObject=36 ElemJtl=36 ElemJtj=37  
 FrameElem=37-1 FrameObject=37 ElemJtl=37 ElemJtj=38  
 FrameElem=38-1 FrameObject=38 ElemJtl=38 ElemJtj=24

TABLE: "BASE REACTIONS"

OutputCase=PPST CaseType=LinStatic GlobalFX=1.1681322575896E-11 GlobalFY=0 GlobalFZ=178.12500000326 GlobalMX=0  
 GlobalMY=3.07564107515645E-09 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 XCentroidFX=96500782.7903741 \_  
 YCentroidFX=0 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=-1.75080921297565E-11 YCentroidFZ=0  
 ZCentroidFZ=0  
 OutputCase=PPNS CaseType=LinStatic GlobalFX=5.11590769747272E-13 GlobalFY=0 GlobalFZ=150.950000002701 GlobalMX=0  
 GlobalMY=3.0993305699667E-09 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 XCentroidFX=711216374.723958 \_  
 YCentroidFX=0 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=-2.00989216065787E-11 YCentroidFZ=0  
 ZCentroidFZ=0  
 OutputCase=ST1D CaseType=LinStatic GlobalFX=30.4000000024787 GlobalFY=0 GlobalFZ=3.49245965480804E-10 GlobalMX=0  
 GlobalMY=38.0000000080354 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 XCentroidFX=9.03024392613123E-05 \_  
 YCentroidFX=0 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=-108805838188.312 YCentroidFZ=0 ZCentroidFZ=0  
 OutputCase=ST2D CaseType=LinStatic GlobalFX=23.7500000015314 GlobalFY=0 GlobalFZ=1.74622982740402E-10 GlobalMX=0  
 GlobalMY=19.7916666723515 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 XCentroidFX=1.21326777881286E-04 \_  
 YCentroidFX=0 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=-113339414788.139 YCentroidFZ=0 ZCentroidFZ=0  
 OutputCase=ST3D CaseType=LinStatic GlobalFX=19.0500000014848 GlobalFY=0 GlobalFZ=2.3283064365387E-10 GlobalMX=0  
 GlobalMY=23.8125000051485 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 XCentroidFX=9.03024980323325E-05 \_  
 YCentroidFX=0 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=-102273908758.113 YCentroidFZ=0 ZCentroidFZ=0  
 OutputCase=ST4D CaseType=LinStatic GlobalFX=14.8762500011595 GlobalFY=0 GlobalFZ=2.91038304567337E-11 GlobalMX=0  
 GlobalMY=12.3973958368143 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 XCentroidFX=1.21324173070195E-04 \_  
 YCentroidFX=0 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=-425971277397.138 YCentroidFZ=0 ZCentroidFZ=0  
 OutputCase=ST1S CaseType=LinStatic GlobalFX=-30.4000000029553 GlobalFY=0 GlobalFZ=-1.16415321826935E-10 GlobalMX=0 GlobalMY=-  
 38.0000000080292 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 \_  
 XCentroidFX=-9.03031983532695E-05 YCentroidFX=0 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=-  
 326417514564.877 YCentroidFZ=0 ZCentroidFZ=0  
 OutputCase=ST2S CaseType=LinStatic GlobalFX=-23.7500000016732 GlobalFY=0 GlobalFZ=0 GlobalMX=0 GlobalMY=-19.7916666724905  
 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 XCentroidFX=-1.21327515251894E-04 YCentroidFX=0 \_  
 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=19.7916666724763 YCentroidFZ=0 ZCentroidFZ=0  
 OutputCase=ST3S CaseType=LinStatic GlobalFX=-19.0500000016257 GlobalFY=0 GlobalFZ=-2.3283064365387E-10 GlobalMX=0 GlobalMY=-  
 23.8125000051652 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 XCentroidFX=-9.03032061826124E-05 \_  
 YCentroidFX=0 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=-102273908758.128 YCentroidFZ=0 ZCentroidFZ=0  
 OutputCase=ST4S CaseType=LinStatic GlobalFX=-14.1325000011074 GlobalFY=0 GlobalFZ=-8.73114913702011E-11 GlobalMX=0 GlobalMY=-  
 12.3664062534512 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 \_  
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 141635494473.498 YCentroidFZ=0 ZCentroidFZ=0  
 OutputCase=QM01 CaseType=LinStatic GlobalFX=-3.41060513164848E-13 GlobalFY=0 GlobalFZ=195.800000001676 GlobalMX=0  
 GlobalMY=1.98173211174435E-09 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 XCentroidFX=5607060937.70313 \_  
 YCentroidFX=0 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=-1.01322378020637E-11 YCentroidFZ=0  
 ZCentroidFZ=0  
 OutputCase=QM02 CaseType=LinStatic GlobalFX=9.52127265918534E-13 GlobalFY=0 GlobalFZ=40.0500000006286 GlobalMX=0  
 GlobalMY=7.62305774060223E-10 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 XCentroidFX=-410829432.938433 \_  
 YCentroidFX=0 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=-1.91933471471321E-11 YCentroidFZ=0  
 ZCentroidFZ=0  
 OutputCase=SQMD CaseType=LinStatic GlobalFX=33.5593750027014 GlobalFY=0 GlobalFZ=4.65661287307739E-10 GlobalMX=0  
 GlobalMY=45.6566927178908 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 XCentroidFX=8.2076666592967E-05 \_  
 YCentroidFX=0 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=-98047001033.4972 YCentroidFZ=0 ZCentroidFZ=0  
 OutputCase=SQMS CaseType=LinStatic GlobalFX=-33.559375001941 GlobalFY=0 GlobalFZ=-4.65661287307739E-10 GlobalMX=0 GlobalMY=-  
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 YCentroidFX=0 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=-98047001032.3313 YCentroidFZ=0 ZCentroidFZ=0  
 OutputCase=FA01 CaseType=LinStatic GlobalFX=-17.3550000016694 GlobalFY=0 GlobalFZ=-1.16415321826935E-10 GlobalMX=0 GlobalMY=-  
 43.3875000058869 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 \_  
 XCentroidFX=-3.70044761147346E-10 YCentroidFX=0 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=  
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 OutputCase=IS01 CaseType=LinStatic GlobalFX=-65.2450000061965 GlobalFY=0 GlobalFZ=-9.31322574615479E-10 GlobalMX=0 GlobalMY=-  
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APPROVATO SDR

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**Bresini SpA**  


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 OutputCase=TC01 CaseType=LinStatic GlobalFX=8.64019966684282E-12 GlobalFY=0 GlobalFZ=2.72848410531878E-12 GlobalMX=0 GlobalMY=2.43829845203436E-11 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 \_  
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 OutputCase=TC02 CaseType=LinStatic GlobalFX=-8.64019966684282E-12 GlobalFY=0 GlobalFZ=-2.72848410531878E-12 GlobalMX=0 GlobalMY=-2.43829845203436E-11 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 \_  
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 OutputCase=TV01 CaseType=LinStatic GlobalFX=-6.75015598972095E-14 GlobalFY=0 GlobalFZ=-4.54747350886464E-13 GlobalMX=0 GlobalMY=-1.05315756115942E-12 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 \_  
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 OutputCase=TV02 CaseType=LinStatic GlobalFX=6.75015598972095E-14 GlobalFY=0 GlobalFZ=4.54747350886464E-13 GlobalMX=0 GlobalMY=1.05315756115942E-12 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 \_  
 XCentroidFX=-28652635830.1316 YCentroidFX=0 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=-2.27563056945801 YCentroidFZ=0 ZCentroidFZ=0  
 OutputCase=PPAQ CaseType=LinStatic GlobalFX=1.71596070686064E-12 GlobalFY=0 GlobalFZ=40.0000000005821 GlobalMX=0 GlobalMY=7.76652342437956E-10 GlobalMZ=0 GlobalX=0 GlobalY=0 GlobalZ=0 XCentroidFX=-331848787.177019 \_  
 YCentroidFX=0 ZCentroidFX=0 XCentroidFY=0 YCentroidFY=0 ZCentroidFY=0 XCentroidFZ=-1.92920091010542E-11 YCentroidFZ=0 ZCentroidFZ=0

END TABLE DATA

APPROVATO SDP

Società di Progetto  
Brebemi SpA