

S.S. 38 - LOTTO 4: VARIANTE DI TIRANO DALLO SVINCOLO DI STAZZONA (COMPRESO) ALLO SVINCOLO DI LORETO (CON COLLEGAMENTO ALLA DOGANA DI POSCHIAVO)

S.S. 38 - LOTTO 4: NODO DI TIRANO - TRATTA "A" (SVINCOLO DI BIANZONE - SVINCOLO LA GANDA) E TRATTA "B" (SVINCOLO LA GANDA - CAMPONE IN TIRANO)

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H - PROGETTO STRUTTURALE OPERE PRINCIPALI

HD06

HD – GN02 GALLERIA IL DOSSO: IMBOCCO LATO SONDRIO

OPERE PROVVISORIALI - RELAZIONE DI CALCOLO

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1 INTRODUZIONE

La presente relazione è inserita nell'ambito del Progetto Esecutivo della progettazione della "SS 38 Lotto 4 Nodo di Tirano, Tratta A (Svincolo di Bianzone - Svincolo La Ganda) e Tratta B (Svincolo La Ganda - Campone in Tirano).

La galleria "Il Dosso" è ubicata a SE del Comune di Tirano al piede del versante orografico sinistro del Fiume Adda.

Nel presente documento si affrontano le problematiche progettuali connesse al dimensionamento ed alla verifica della paratia provvisoria di micropali necessaria a sostenere gli scavi per la realizzazione dell'imbocco della galleria.

Si tiene in debito conto l'interferenza con la galleria idraulica esistente.

La paratia di micropali in oggetto è costituita da una singola fila di micropali armati con tubo in acciaio S 355 H, disposti ad interasse di 40 cm, collegati in testa da un cordolo in c.a., al di sotto ci sono fino a 6 ordini di tiranti attivi provvisori.

L'azione di contrasto dei tiranti è distribuita sui micropali dalle travi di collegamento e ripartizione previste lungo ciascun ordine e costituite da un doppio profilato in acciaio S 275 della serie HE 220 A, collegate da calastrelli, disposti con interasse di $2 \div 2.4$ m. Gli stessi tiranti saranno ancorati a suddette travi tramite apposite piastre di ripartizione che garantiscono la stabilità e la ripartizione necessaria a trasferire gli elevati carichi concentrati dei tiranti al sistema di travi di contrasto.

La paratia sarà protetta mediante uno strato di betoncino proiettato di spessore 10 cm, armato con rete elettrosaldata $\varnothing 5$, passo 20x20 cm.

Micropali paratia: verticali

diametro del tubo: 177.8 mm

spessore del tubo: 10 mm

interasse: 0.40 m

diametro perforazione: 240 mm

lunghezza micropali: variabile da 7 m a 24 m

Tiranti attivi: inclinati di 10° sull'orizzontale

composizione: 4 trefoli da 0.6" standard ($A = 4 \times 139 = 556 \text{ mm}^2$)

lunghezza totale: variabile da 22 m a 31 m

interasse: $2.00 \div 2.40$ m

lunghezza bulbo: 12 m

diametro di perforazione: 160 mm

iniezione bulbo: malta cementizia ad alta pressione con iniezioni ripetute e selettive (IRS).

tensione di tesatura: 120 kN/trefolo (480 kN/tirante)

tensione di collaudo: $1.2 \times 120 = 144$ kN/trefolo (576 kN/tirante)

Il cordolo in c.a. di collegamento di testa dei micropali ha dimensioni pari a 50x50 cm.

Nel seguito si eseguono i calcoli per la sezione più significativa (spigolo a monte) in cui si ha la massima altezza di scavo di circa 16.3 m e 6 ordini di tiranti; si assume che i tratti con altezza inferiore siano implicitamente verificati.

Seguono i calcoli anche per il tratto che si svolge parallelamente alla galleria idraulica, con un'altezza di scavo di circa 6.2 m e 4 ordini di tiranti.

2 NORMATIVA DI RIFERIMENTO

La presente relazione è stata redatta in osservanza delle seguenti Normative:

- **Legge 05/01/1971 n.1086** → Norme per la disciplina delle opere in conglomerato cementizio armato, normale e precompresso ed a struttura metallica
- **Legge 02/02/1974 n. 64** → Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche
- **DM 17/01/2018** → Aggiornamento delle "Norme Tecniche per le Costruzioni"
- **Circolare 02/02/2009 n. 617, C.S. LL.PP.** → Istruzioni per l'applicazione delle "Norme Tecniche per le Costruzioni" di cui al DM 17/01/2018

3 CARATTERISTICHE DEI MATERIALI

Con riferimento alle normative citate, le strutture sono state verificate utilizzando il metodo di calcolo agli stati limite, adottando i seguenti parametri di resistenza dei materiali:

3.1 CALCESTRUZZO CORDOLO DI TESTA

- Classe calcestruzzo: C25/30
- resistenza cilindrica caratteristica: $f_{ck} \geq 25 \text{ N/mm}^2$
- resistenza di calcolo a compressione: $f_{cd} = \alpha_{cc} f_{ck} / \gamma_c = 0.85 \times 25 / 1.5 = 14.17 \text{ N/mm}^2$
- modulo di elasticità: $E_{cm} = 22000 [(f_{ck}+8)/10]^{0.3} = 31476 \text{ N/mm}^2$

3.2 ACCIAIO ORDINARIO PER ARMATURE C.A.

- Tipo B450C controllato in stabilimento, di tipo saldabile.
- tensione caratteristica di rottura: $f_{tk} = 540 \text{ N/mm}^2$
- tensione caratteristica di snervamento: $f_{yk} = 450 \text{ N/mm}^2$
- resistenza di calcolo: $f_{yd} = f_{yk} / \gamma_s = 450 / 1.15 = 391 \text{ N/mm}^2$
- modulo di elasticità: $E_s = 210000 \text{ N/mm}^2$

3.3 ACCIAIO STRUTTURALE MICROPALI

- Classificazione acciaio (UNI EN 10210-1): S 355 H
- Tensione caratteristica di snervamento: $f_{yk} = 355 \text{ N/mm}^2$
- Tensione caratteristica di rottura: $f_{tk} = 510 \text{ N/mm}^2$
- Tensione limite di calcolo a trazione: $f_{yd} = f_{yk} / \gamma_{M0} = 355 / 1.05 = 338.0 \text{ N/mm}^2$
- Modulo elastico: $E = 210000 \text{ N/mm}^2$

3.4 ACCIAIO STRUTTURALE TRAVI DI RIPARTIZIONE TIRANTI

- Classificazione acciaio (UNI EN 10025-2): S 275
- Tensione caratteristica di snervamento: $f_{yk} = 275 \text{ N/mm}^2$
- Tensione caratteristica di rottura: $f_{tk} = 430 \text{ N/mm}^2$
- Tensione limite di calcolo a trazione: $f_{yd} = f_{yk} / \gamma_{M0} = 275 / 1.05 = 262.0 \text{ N/mm}^2$
- Modulo elastico: $E = 210000 \text{ N/mm}^2$

3.5 ACCIAIO IN TREFOLI PER TIRANTI

- Tipo acciaio armonico: 170/190
- tensione caratteristica di rottura: $f_{ptk} = 1860 \text{ N/mm}^2$
- tensione caratteristica all' 1% di def. totale: $f_{p(1)k} = 1670 \text{ N/mm}^2$
- resistenza di calcolo: $f_{yd} = f_{pyk} / \gamma_s = 1670 / 1.15 = 1452 \text{ N/mm}^2$
- modulo di elasticità: $E_s = 200000 \text{ N/mm}^2$

4 CARATTERIZZAZIONE GEOTECNICA

I parametri necessari a definire le caratteristiche del terreno ai fini del calcolo delle strutture sono ricavati dagli elaborati geologici e geotecnici.

L'intera struttura ricade nello strato denominato "Morena": depositi caotici misti a detrito di versante costituiti da un accumulo caotico di diverse facies granulometriche rappresentate da sabbie, ghiaie e trovanti di dimensioni variabili in matrice limo-sabbiosa" per cui si assumono i seguenti parametri geotecnici caratteristici:

- peso specifico apparente: $\gamma = 20 \text{ kN/m}^3$
- angolo di attrito interno: $\phi = 34^\circ$
- coesione drenata: $c' = 0 \text{ kN/m}^2$
- modulo di deformazione: $E = 21000 \text{ kN/m}^2$

Le tensioni limite di aderenza secondo Bustamante-Doix risultano per terreno ghiaioso/sabbioso, $N_{SPT} = 30$:

- iniezione a gravità o bassa pressione: $\tau_{lim} = 84 \text{ kN/m}^2$ $\alpha = 1$
- iniezione ripetuta ad alta pressione da una valvola di fondo: $\tau_{lim} = 118 \text{ kN/m}^2$ $\alpha = 1.2$
- iniezione ripetuta ad alta pressione da più valvole ($i \leq 1 \text{ m}$): $\tau_{lim} = 179 \text{ kN/m}^2$ $\alpha = 1.4$

La falda si trova a una profondità tale da non interessare l'opera in oggetto.

5 INQUADRAMENTO SISMICO DELL'OPERA

La vita nominale di un'opera strutturale, così come definita al punto 2.4.1 del DM 17/01/2018, è intesa come il numero di anni nel quale la struttura, purché soggetta alla manutenzione ordinaria, deve poter essere usata per lo scopo al quale è destinata.

Nel caso in oggetto, l'opera ricade nella definizione di Tipo 1: "Costruzioni temporanee o provvisorie" e si assume che la condizione di utilizzo permanga per meno di 2 anni.

Si omettono quindi le verifiche sismiche relative.

6 APPROCCI DI PROGETTO

6.1 VERIFICHE STRUTTURALI (STR)

Si fa riferimento al paragrafo 2.5.3, 6.2.3.1.1 , 6.5.3.1.1 e 7.11.6.2.2 delle NTC 2018.

Per le verifiche strutturali della paratia e dei tiranti si considerano i seguenti stati limite:

- **SLU STR (A1+M1+R1):** Verifiche allo stato limite ultimo delle strutture, caso statico (2.6.1)

Nella tabella seguente si riportano i coefficienti parziali relativi alle azioni A1, o per il loro effetto, per le combinazioni di carico previste; si omettono i coefficienti parziali relativi al terreno (γ_M) e alle resistenze (γ_R), tutti unitari.

Si intende che le azioni del terreno (spinte attive e passive) e dell'acqua sono carichi permanenti strutturali, così come le azioni dei tiranti.

Si nota che l'azione del terreno sarebbe contemporaneamente "sfavorevole" (spinta attiva da monte) e "favorevole" (spinta passiva di valle); essendo le azioni originate da una fonte unica, si considera per entrambe lo stesso coefficiente parziale.

CASO	Permanenti strutturali γ_{G1}		Altri permanenti: γ_{G2}		Variabili: γ_{Qki}	
	Sfavorevoli	Favorevoli	Sfavorevoli	Favorevoli	Sfavorevoli	Favorevoli
SLU (STR)	1.3	1.0	1.5	0	1.5	0

TABELLA N.6.1- COEFFICIENTI PARZIALI AZIONI – CASO A1

6.2 ALTRE VERIFICHE

Si fa riferimento al paragrafo 6.5.3.1.2 delle NTC 2008 considerando gli stati limite ultimi pertinenti; si escludono stati limite di tipo idraulico (UPL e HYD) in quanto la falda non interferisce con l'opera.

6.2.1 Verifiche di stabilità del fondo scavo (GEO)

Si verifica che la spinta passiva mobilitata a valle della paratia sia inferiore alla spinta passiva disponibile.

- **SLU GEO (A2+M2+R1):** Verifiche allo stato limite ultimo, caso statico

Nelle tabelle seguenti si riportano i coefficienti parziali relativi alle azioni A2, o per il loro effetto, e ai parametri geotecnici M2 per le combinazioni di carico previste; si omettono i coefficienti parziali relativi alle resistenze (γ_R), tutti unitari.

CASO	Permanenti strutturali γ_{G1}		Altri permanenti: γ_{G2}		Variabili: γ_{Qki}	
	Sfavorevoli	Favorevoli	Sfavorevoli	Favorevoli	Sfavorevoli	Favorevoli
SLU (GEO)	1	1	1.3	0	1.3	0

TABELLA N.6.2- COEFFICIENTI PARZIALI AZIONI – CASO A2

Parametro geotecnico	Coefficiente parziale	(M1)	(M2)
Tangente dell'angolo di resistenza al taglio	$\gamma_{\phi'}$	1	1.25
Coesione efficace	$\gamma_{c'}$	1	1.25
Resistenza non drenata	γ_{cu}	1	1.4
Peso dell'unità di volume	γ_Y	1	1

TABELLA N.6.3- COEFFICIENTI PARZIALI PARAMETRI GEOTECNICI

6.2.2 Verifica del carico limite del bulbo di ancoraggio dei tiranti (GEO)

Si verifica lo stato limite di sfilamento della fondazione dell'ancoraggio.

- **SLU GEO (A1+M1+R3):** Verifica geotecnica ancoraggio tiranti

La verifica a sfilamento della fondazione dell'ancoraggio si esegue confrontando la massima azione di progetto E_d con la resistenza di progetto R_{ad} , determinata applicando alla resistenza caratteristica R_{ak} i coefficienti parziali γ_R riportati nella Tab. 6.6.I seguente.

	Simbolo	Coefficiente parziale
Temporanei	γ_R	1.1
Permanenti	γ_R	1.2

TABELLA N.6.6.I- COEFFICIENTI PARZIALI PER LA RESISTENZA DEGLI ANCORAGGI

Il valore caratteristico della resistenza allo sfilamento dell'ancoraggio R_{ak} si determina con metodo di calcolo analitico dai valori caratteristici dei parametri geotecnici e applicando i fattori di correlazione ξ_{a3} e ξ_{a4} riportati nella Tab. 6.6.III seguente.

Numero di profili di indagine	1	2	3	4	≥ 5
ξ_{a3}	1.80	1.75	1.70	1.65	1.60
ξ_{a4}	1.80	1.70	1.65	1.60	1.55

TABELLA N.6.6.III- FATTORI DI CORRELAZIONE PER DERIVARE LA RESISTENZA CARATTERISTICA DALLE PROVE GEOTECNICHE, IN FUNZIONE DEL NUMERO DI PROFILI DI INDAGINE

Nel caso in esame si assumono: $\gamma_R = 1.1$ (tiranti temporanei) e $\xi_{a3} = \xi_{a4} = 1.80$ (1 profilo).

6.2.3 Instabilità globale dell'insieme terreno-opera (GEO)

Nelle verifiche agli stati limite ultimi per la verifica dell'instabilità globale dell'insieme terreno-opera l'analisi sarà condotta con riferimento alla **Combinazione 2: (A2+M2+R2)**, nella quale i parametri di resistenza del terreno sono ridotti tramite i coefficienti parziali del gruppo M2, i coefficienti sulla resistenza globale (R2) sono riportati in Tabella 6.8.I seguente e le sole azioni variabili sono amplificate con i coefficienti del gruppo A2. I parametri di resistenza di progetto sono perciò inferiori a quelli caratteristici. In linea generale, per la Combinazione in oggetto, essendo i coefficienti parziali amplificativi delle azioni permanenti pari ad 1.0 e dei variabili pari ad 1.3 (gruppo A2), si opererà applicando in fase di calcolo un coefficiente moltiplicativo ai carichi variabili pari a $\gamma_Q=1.3$.

COEFFICIENTE	R2
γ_R	1.1

TABELLA N.6.8.I- COEFFICIENTI PARZIALI PER LE VERIFICHE DI SICUREZZA DI OPERE DI MATERIALI SCIOLTI E DI FRONTI DI SCAVO

6.2.4 Verifiche agli stati limite di esercizio (SLE)

Nello specifico si valuteranno le deformazioni dell'opera per consentire di verificare la compatibilità con le funzionalità attese.

7 GENERALITA' SULLA MODELLAZIONE STRUTTURALE

I micropali vengono schematizzati come un' asta infissa in suolo avente caratteristiche elasto-plastiche nelle varie fasi di costruzione.

L' analisi viene condotta con l' impiego del programma "ParatiePlus" (ver. 19.0.1) della Ce.A.S. Srl di Milano.

Tale programma opera mediante la simulazione di uno scavo sostenuto da elementi flessibili con il metodo degli elementi finiti, permettendo così l'analisi dell'interazione terreno – struttura.

La schematizzazione del fenomeno fisico è del tipo "trave su suolo elastico", con i micropali rappresentati da elementi trave aventi comportamento flessionale definito da EJ, e il terreno da elementi elastoplastici monodirezionali connessi agli elementi trave. Viene così trascurata, con limitate ripercussioni sulla bontà dei risultati, l'interazione tra porzioni di terreno adiacenti.

La paratia viene discretizzata con elementi finiti tipo "beam". si tratta di elementi mono-dimensionali con comportamento elastico e sezione di inerzia equivalente a quella effettiva.

Il terreno a monte e a valle della paratia viene schematizzato attraverso elementi "soil": si tratta di elementi elasto-plastici il cui comportamento è così definito:

- ACTIVE: l'elemento non ha rigidezza (fase plastica) e reagisce con una forza pari alla spinta attiva.
- PASSIVE: l'elemento non ha rigidezza (fase plastica) e reagisce con una forza pari alla spinta passiva.
- V-C; UL-RL: l'elemento è soggetto a una compressione minore della spinta passiva; il comportamento è elastico con una rigidezza direttamente proporzionale ai moduli elastici E_{vc} (in compressione vergine, V-C), oppure E_{ur} (in scarico-ricarico, UL-RL).

Si assume un rapporto: $\frac{E_{ur}}{E_{vc}} = 1.6$ per i terreni sabbiosi; $\frac{E_{ur}}{E_{vc}} = 3$ per i terreni limosi/argillosi; $\frac{E_{ur}}{E_{vc}} = 1$

per i terreni rocciosi.

Nelle fasi elastiche la rigidezza dell'elemento terreno è data da:

$$K = \frac{E \times \Delta}{L}$$

in cui: Δ = distanza (passo) tra due elementi "molla" successivi

L = lunghezza fittizia dell'elemento "molla".

Il valore di L è fissato automaticamente dal programma; esso rappresenta una grandezza caratteristica che è diversa a monte e a valle della paratia perché diversa è la zona di terreno coinvolta dal movimento in zona attiva e passiva.

Il programma valuta, in zona attiva: $L_a = \frac{2}{3} \times Z_a \times \tan^2\left(45^\circ - \frac{\phi}{2}\right)$

in zona passiva: $L_p = \frac{2}{3} \times Z_p \times \tan^2\left(45^\circ + \frac{\phi}{2}\right)$

ove Z_a e Z_p sono rispettivamente uguali a:

$$Z_a = \text{Min}(T, 2H) \qquad Z_p = \text{Min}(T - H, H)$$

con: T = altezza totale paratia

H = altezza corrente dello scavo.

La logica di questa scelta è illustrata in: Becci B., Nova R. (1987) "Un metodo di calcolo automatico per il progetto di paratie", Rivista Italiana di Geotecnica, 1,33-47.

I coefficienti di spinta dei terreni a monte e a valle della paratia sono calcolati tenendo conto dell'angolo di attrito paratia/terreno, assunto pari a $\delta = 2\phi/3$ e dell'inclinazione equivalente del piano di campagna a monte e a valle; si considera il terreno in scavo come orizzontale.

Si nota che i coefficienti di spinta utilizzati dal programma sono relativi alle sole componenti orizzontali degli stessi.

Nella fase geostatica si considera il coefficiente di spinta "a riposo" calcolato con l'usuale formula di Jaky, valida per terreni normal-consolidati:

$$\lambda_0 = 1 - \sin \phi = 1 - \sin 34 = 0.441$$

I coefficienti di spinta attiva sono calcolati con le formule di Müller-Breslau, basate sulla teoria di Coulomb:

$$\lambda_a = \frac{\sin^2(\beta - \phi)}{\sin^2\beta \times \sin(\beta + \delta) \times \left[1 + \frac{\sin(\delta + \phi) \times \sin(\phi - \varepsilon)}{\sin(\beta + \delta) \times \sin(\beta - \varepsilon)} \right]^2}$$

dove: ϕ = angolo d'attrito del terreno

ε = Inclinazione del piano campagna rispetto al piano orizzontale, positiva se verso l'alto

$\delta < (\beta - \phi - \varepsilon)$ = angolo d'attrito terreno-parete

β = Inclinazione della parete interna rispetto al piano orizzontale passante per il piede

Rif.: Müller-Breslau: "Erddruck anf Stuetzmanern", ed. Kroener, 1906

I coefficienti di spinta passiva sono calcolati secondo Caquot-Kerisel, formulazione che tiene conto della curvatura delle superfici di scorrimento, come da figura seguente.

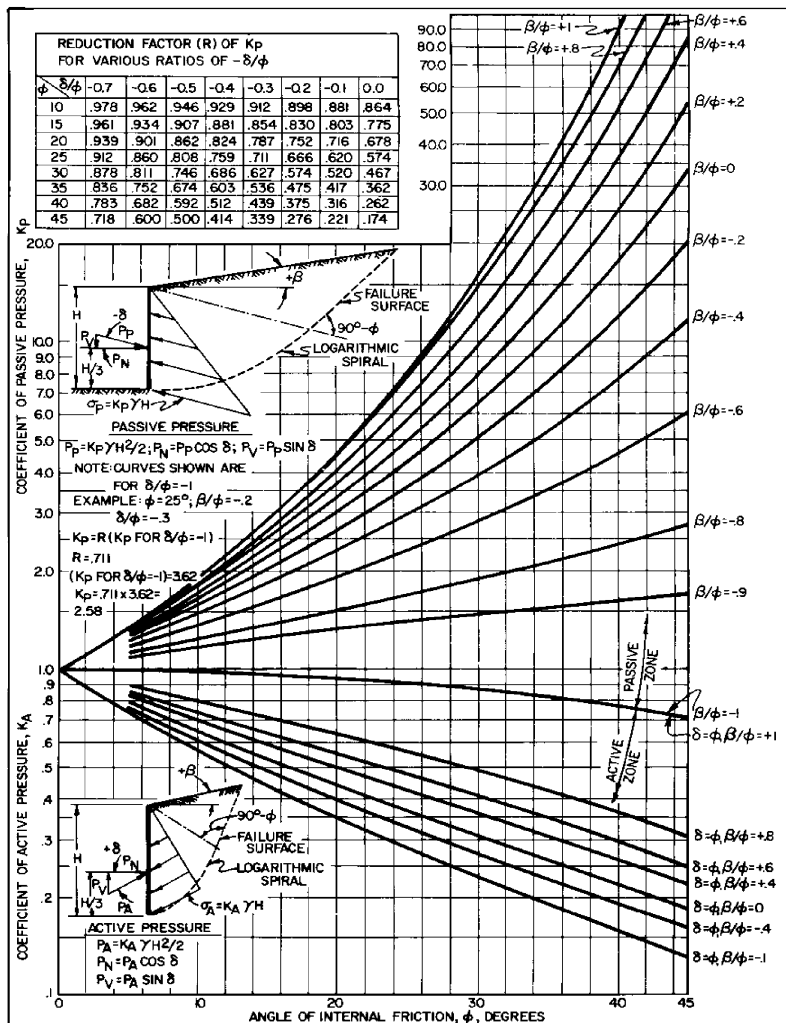


FIGURE 6
Active and Passive Coefficients with Wall Friction
(Sloping Backfill)

RIF.: NAVFAC DESIGN MANUAL 7.02, "FOUNDATION & EARTH STRUCTURES", 1986

Nelle fasi sismiche si assume che la paratia abbia deformazioni apprezzabili e quindi si considera l'incremento di spinta da monte calcolato secondo Mononobe-Okabe:

$$K_{as} = \frac{\sin^2(\alpha + \varphi - \vartheta)}{\cos \vartheta \cdot \sin^2 \alpha \cdot \sin(\alpha - \vartheta - \delta) \left[1 - \frac{\sqrt{\sin(\varphi + \delta) \sin(\varphi - \beta - \vartheta)}}{\sqrt{\sin(\alpha - \vartheta - \delta) \sin(\alpha + \beta)}} \right]^2}$$

Dove (terreno sopra falda): $\vartheta = \arctan \frac{k_h}{1 \pm k_v}$

In accordo a quanto indicato nelle NTC (paragrafo n.7.11.6.2.1) si assume che l'incremento di spinta attiva dovuto al sisma agisca nello stesso punto di quella statica.

Rif: Mononobe N., "Earthquake-Proof Construction of Masonry Dams", Proc. World Engineering Conference, vol.9, 1929.

Segue riassunto dei coefficienti di spinta adottati nel programma di calcolo.

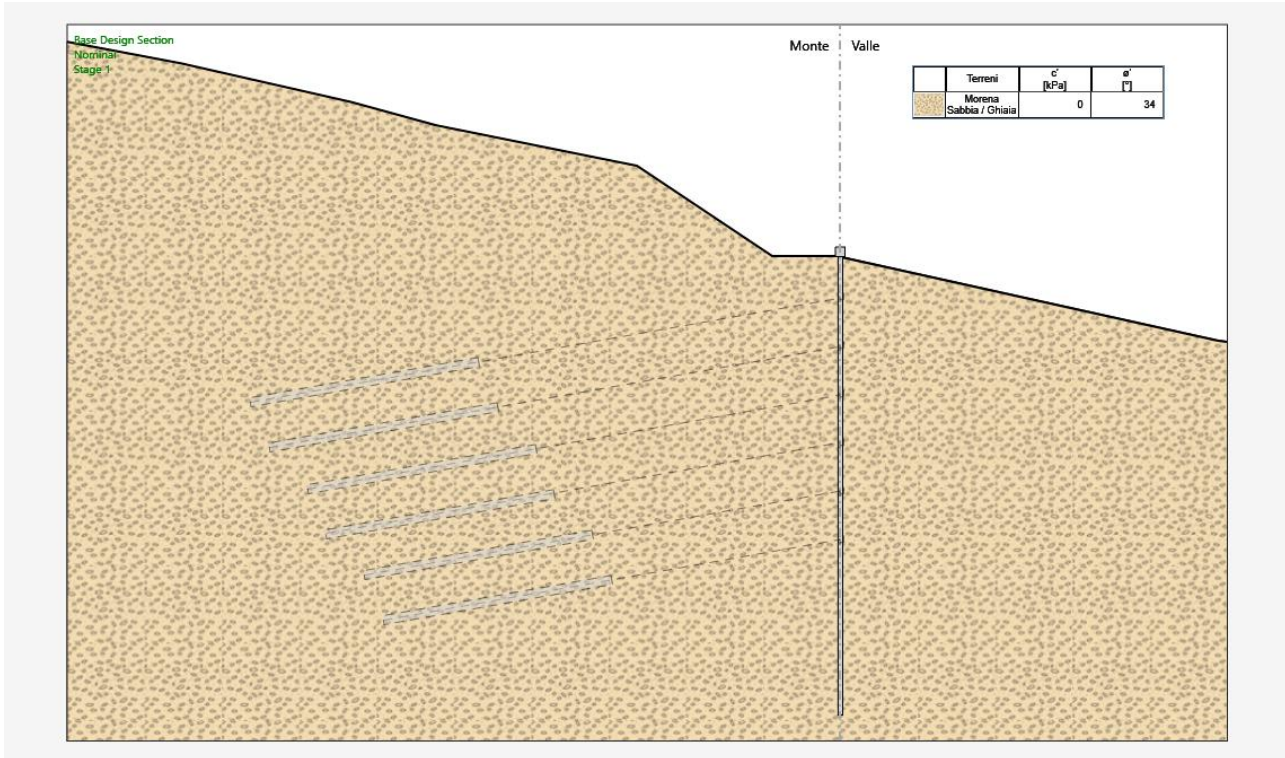
Terreno	Combinazione	A Monte		A Valle	
		K_{ah} ($\delta/\phi=0.66$)	K_{ph} ($\delta/\phi=0.66$)	K_{ah} ($\delta/\phi=0.66$)	K_{ph} ($\delta/\phi=0.66$)
Morene	M1	0.308	6.072	0.234	6.072
	M2	0.420	4.180	0.300	4.180

Tutti i calcoli sono svolti per una profondità di 1 metro.

8 ANALISI PARATIA CON 6 ORDINI DI TIRANTI

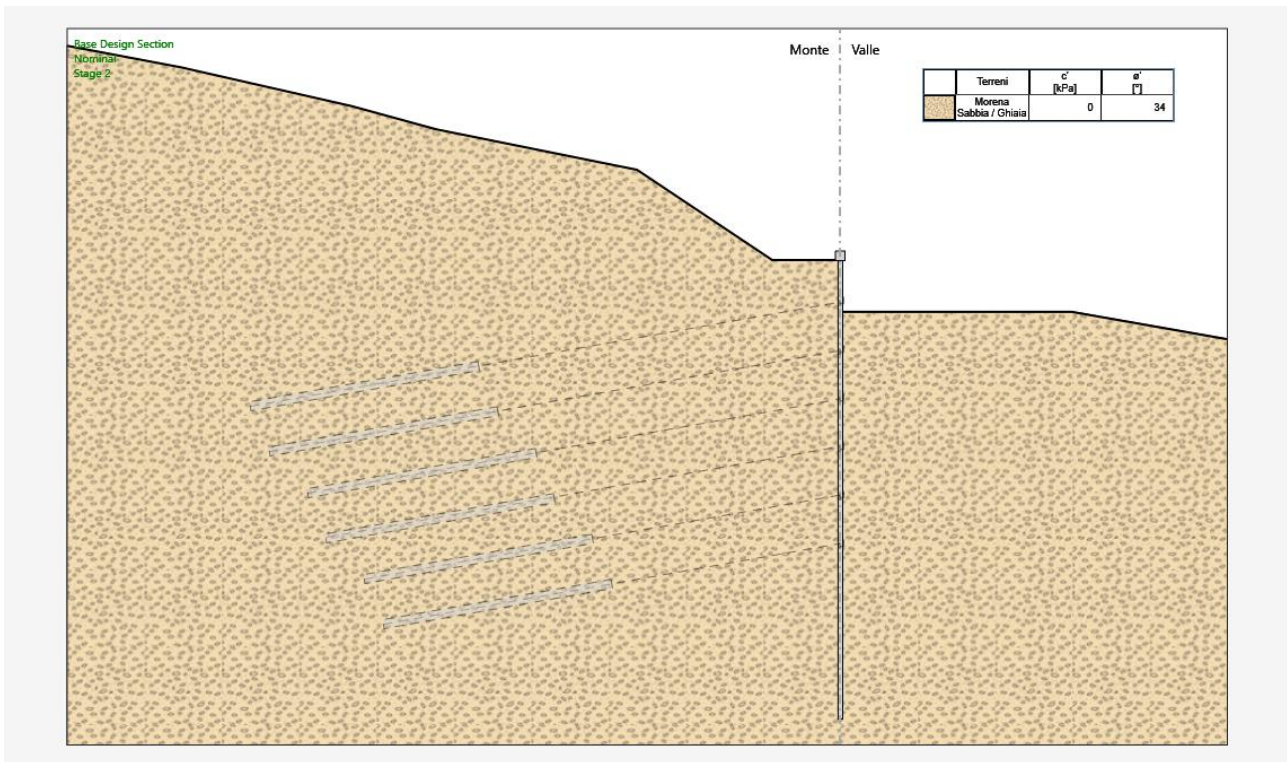
8.1 FASI ESECUTIVE DI CALCOLO

Seguono gli schemi grafici di ogni fase di calcolo del programma "ParatiePlus".

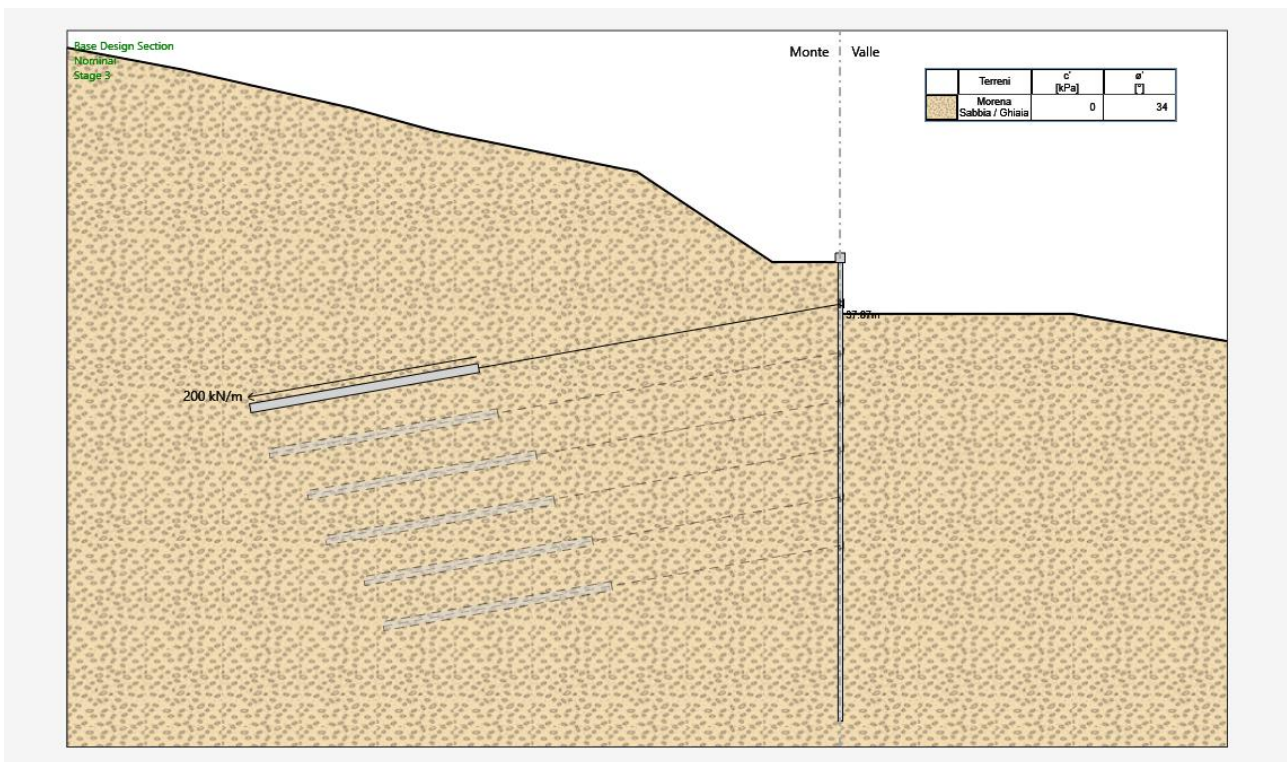


FASE 1: FASE GEOSTATICA DI INIZIALIZZAZIONE:

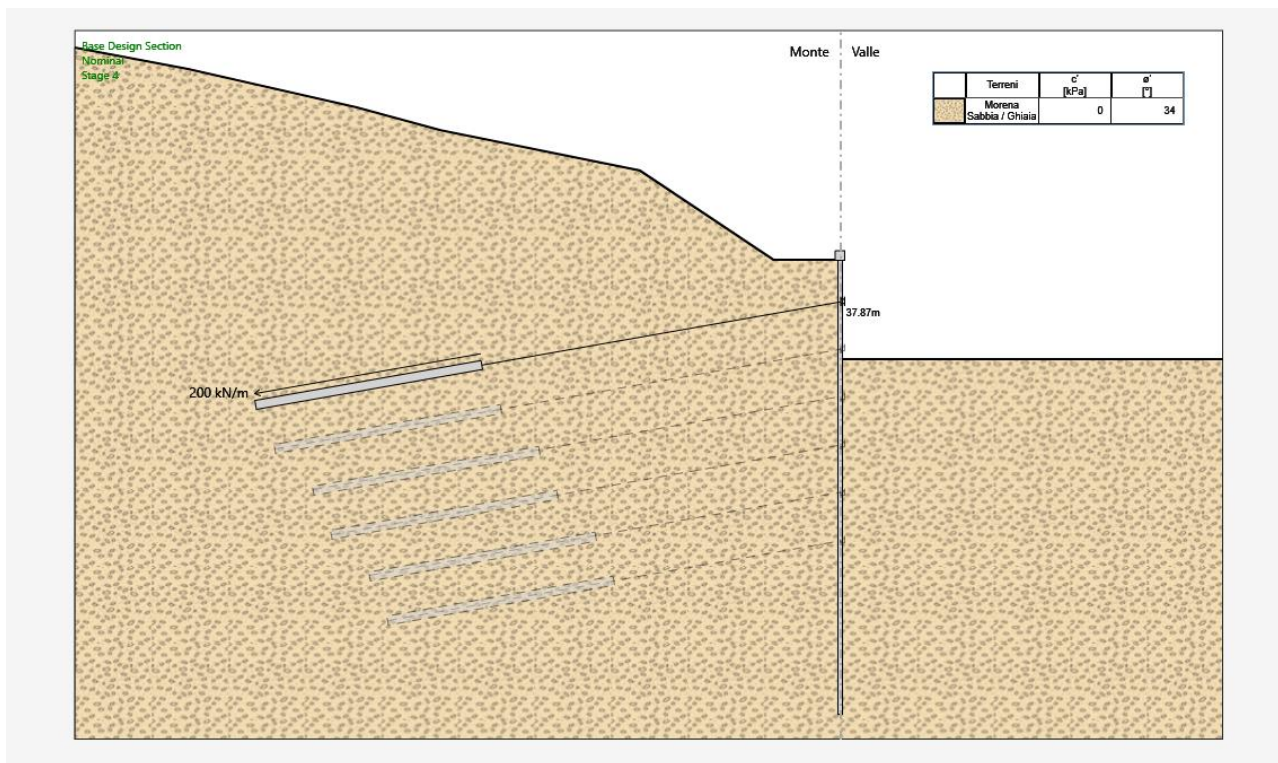
REALIZZAZIONE MICROPALI E CORDOLO DI TESTA



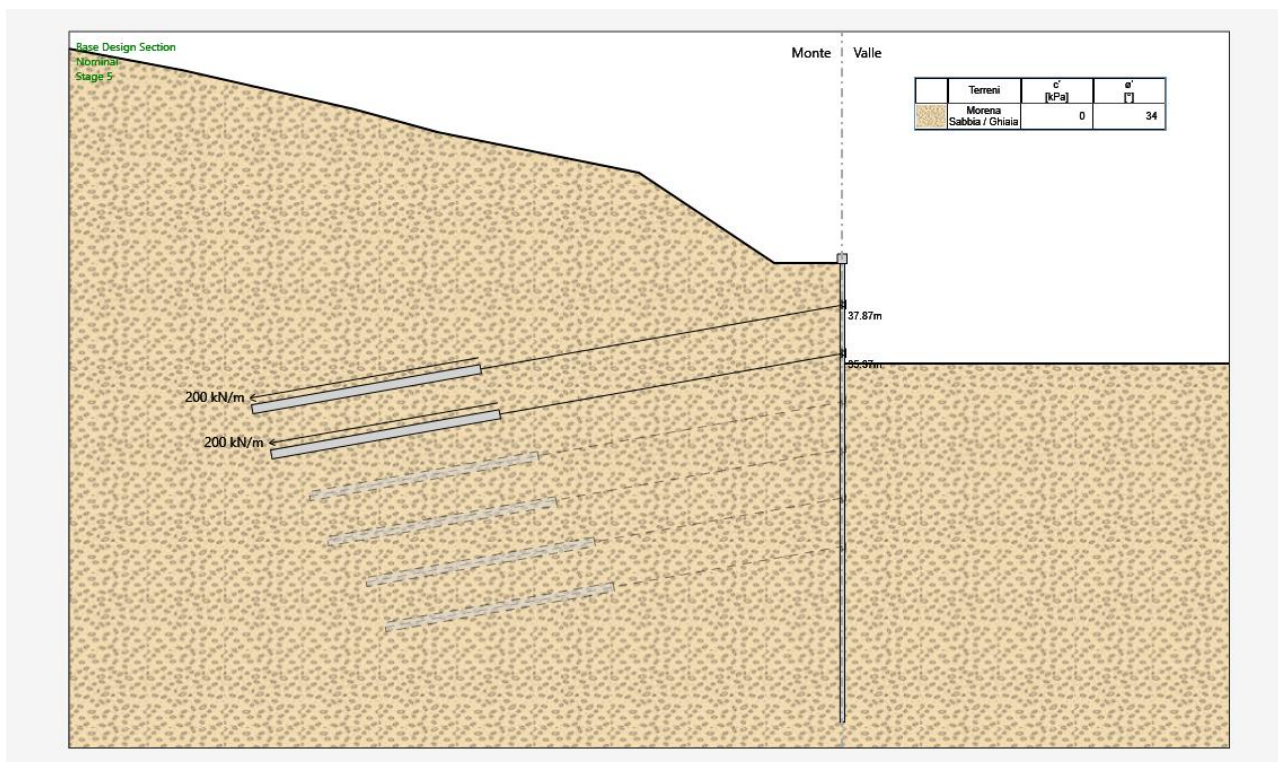
FASE 2: SCAVO FINO QUOTA -0.50 M DALLA 1° FILA DI TIRANTI



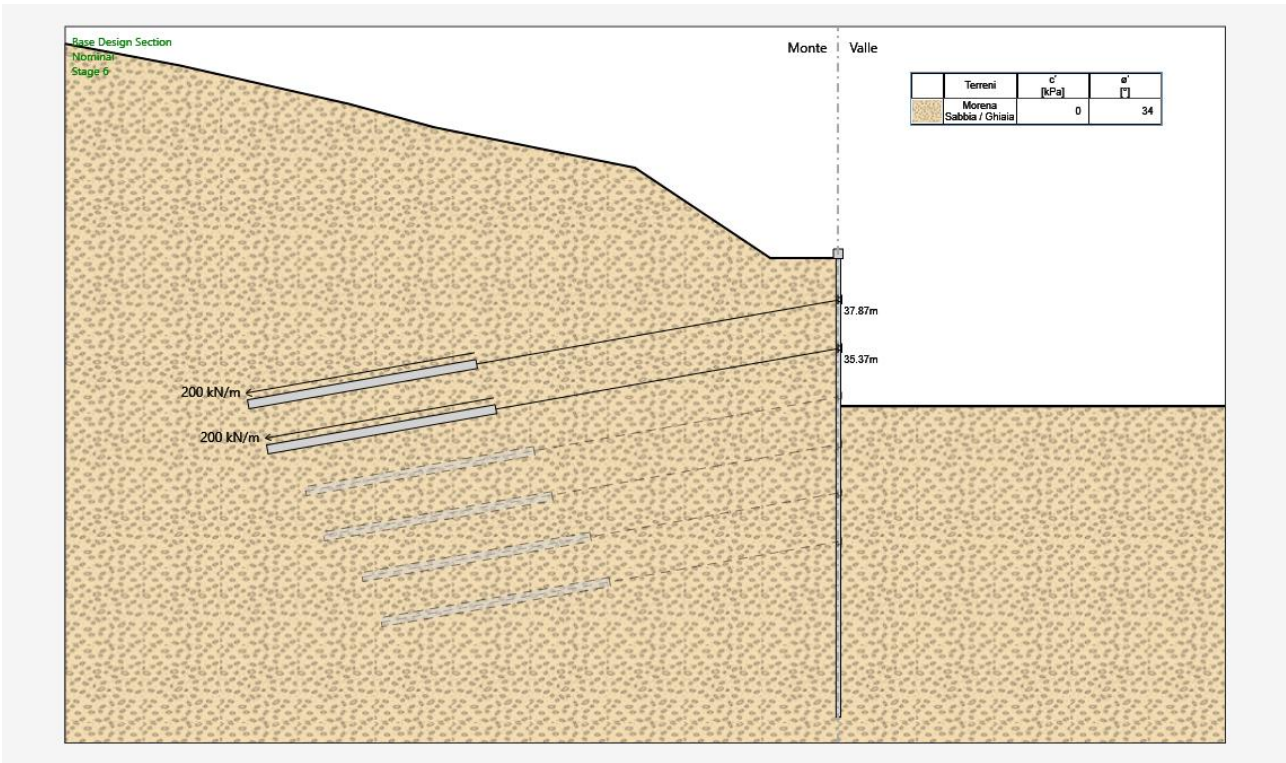
FASE 3: TESATURA DELLA 1° FILA DI TIRANTI



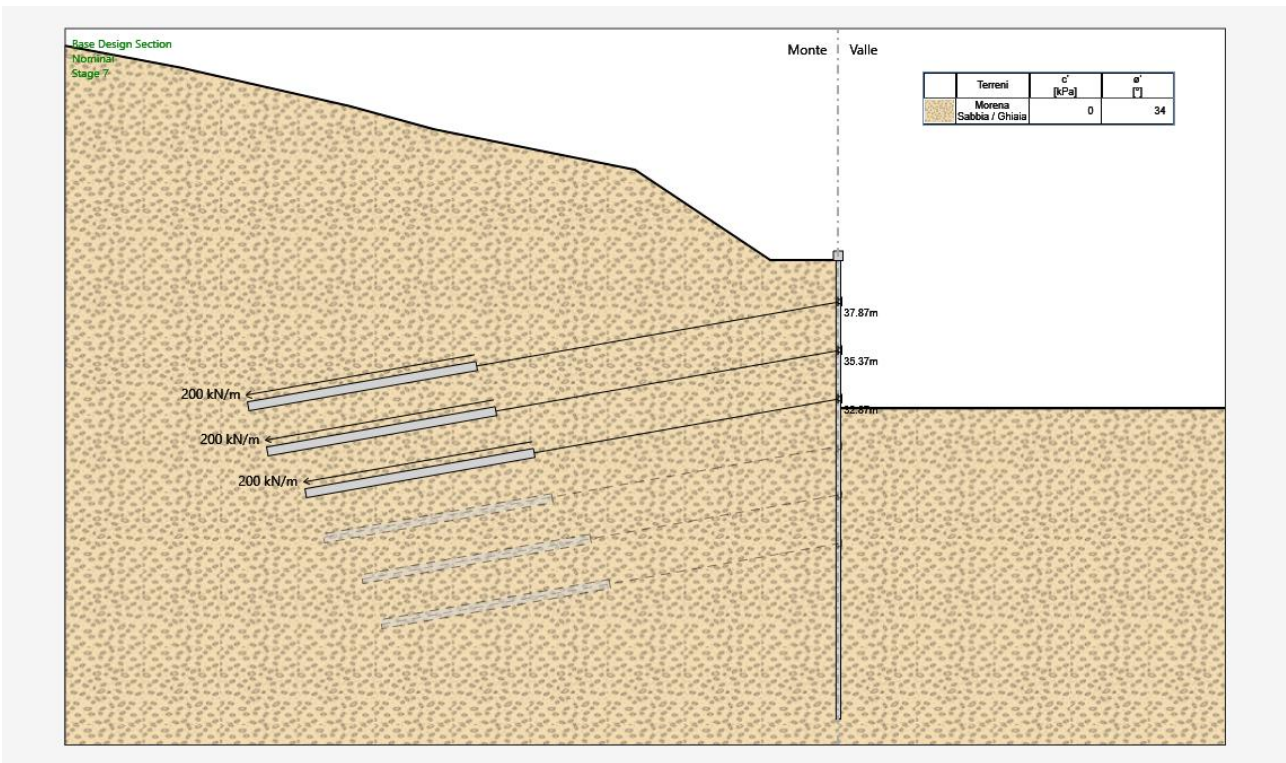
FASE 4: SCAVO FINO QUOTA -0.50 M DALLA 2° FILA DI TIRANTI



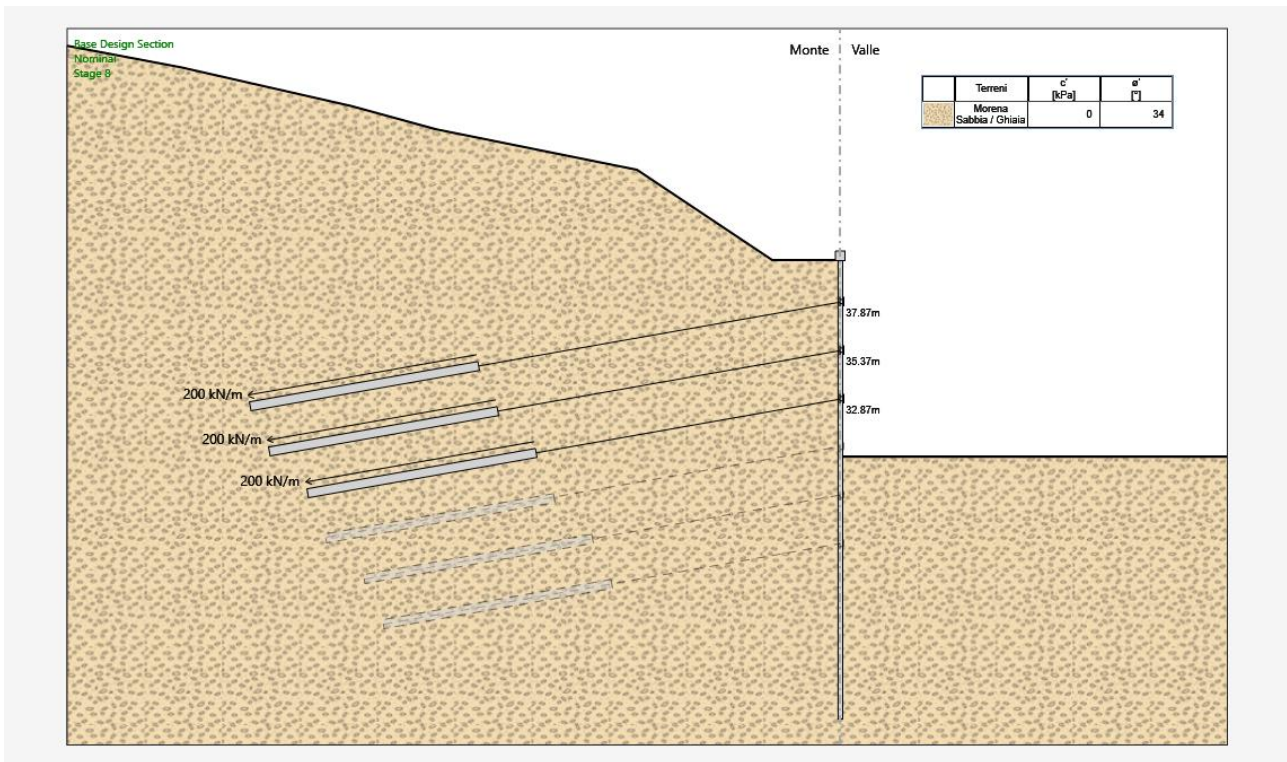
FASE 5: TESATURA DELLA 2° FILA DI TIRANTI



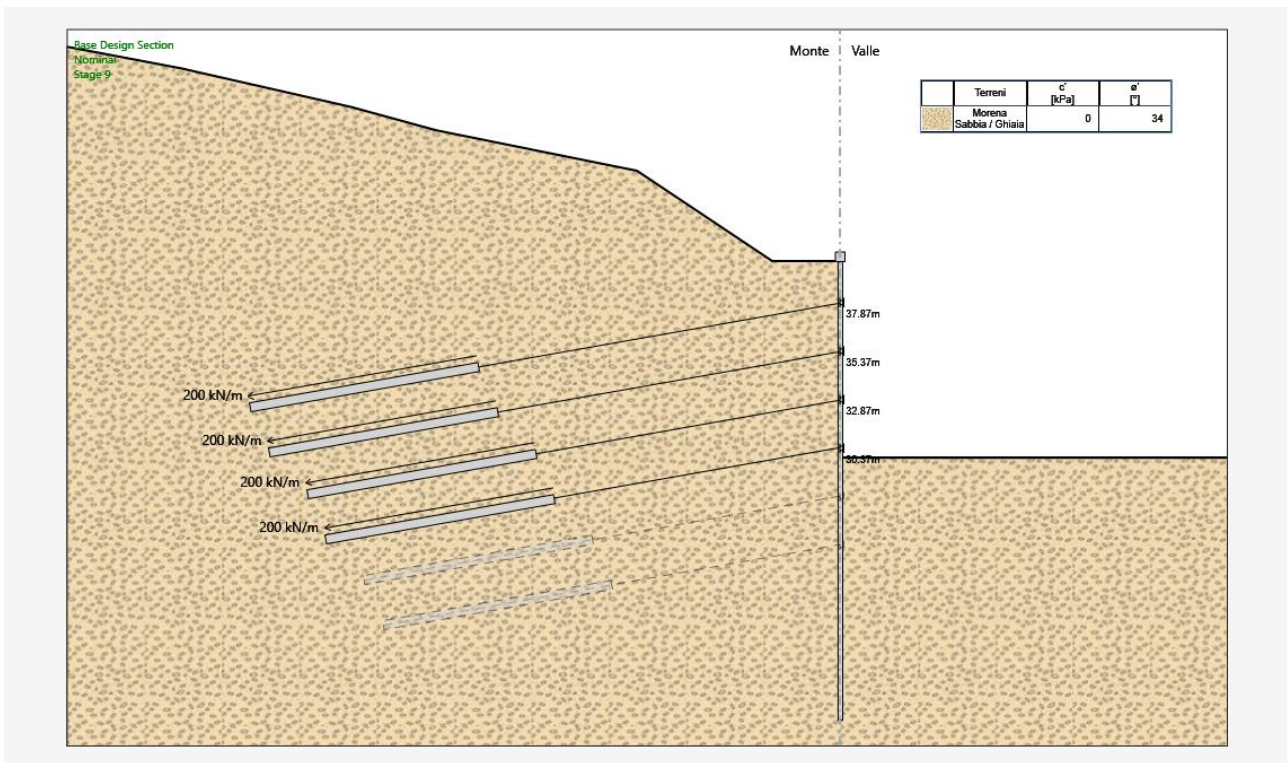
FASE 6: SCAVO FINO QUOTA -0.50 M DALLA 3° FILA DI TIRANTI



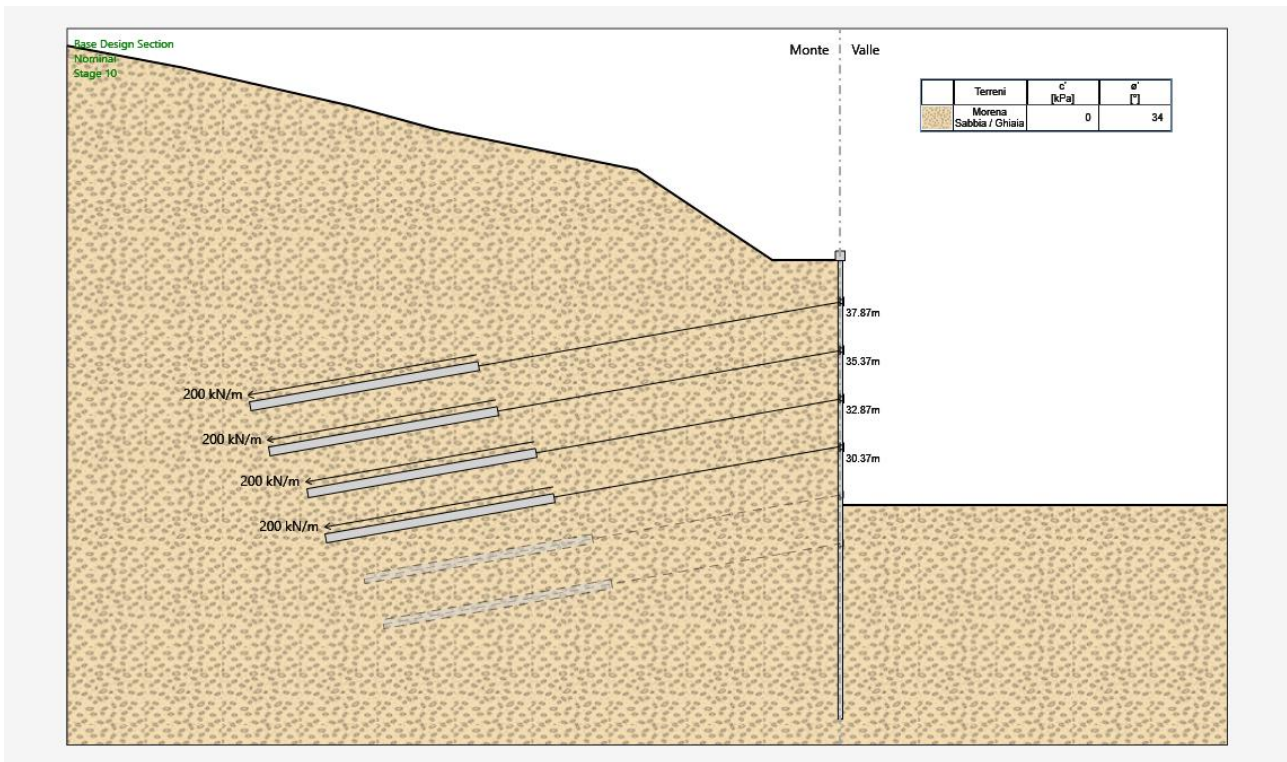
FASE 7: TESATURA DELLA 3° FILA DI TIRANTI



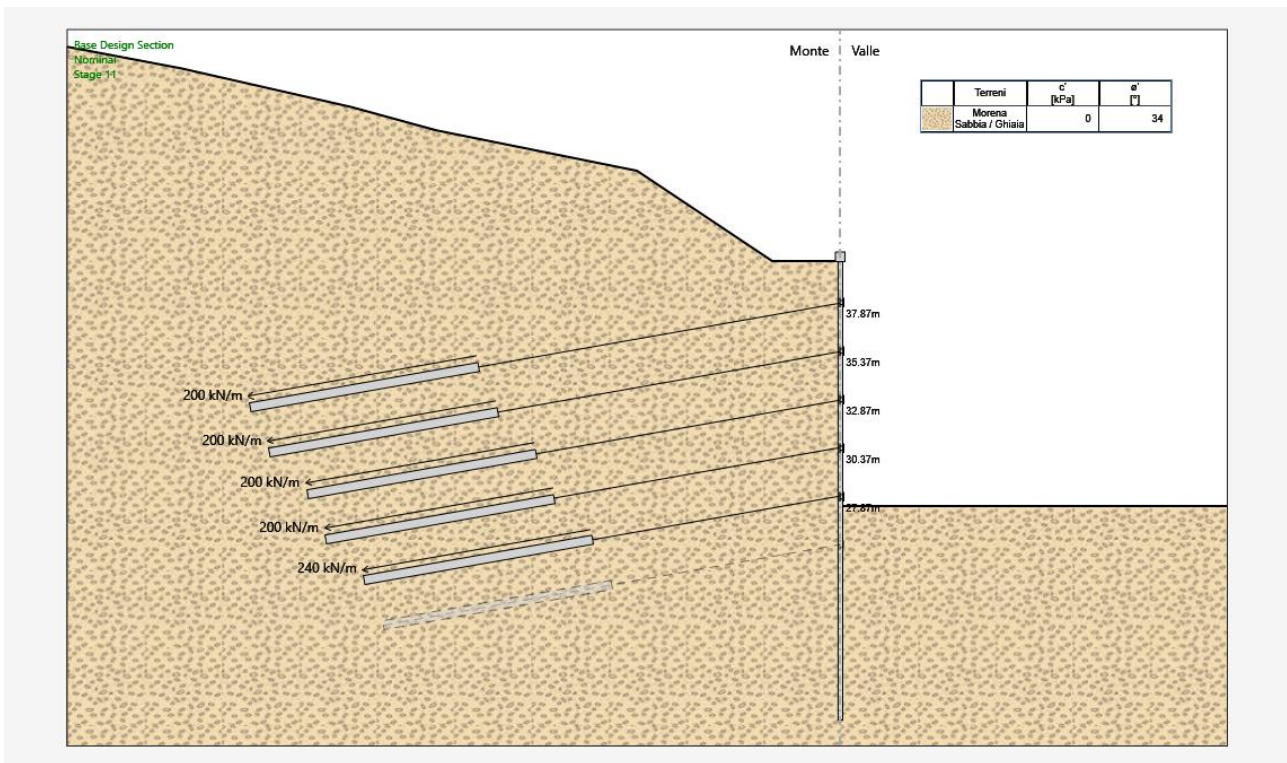
FASE 8: SCAVO FINO QUOTA -0.50 M DALLA 4° FILA DI TIRANTI



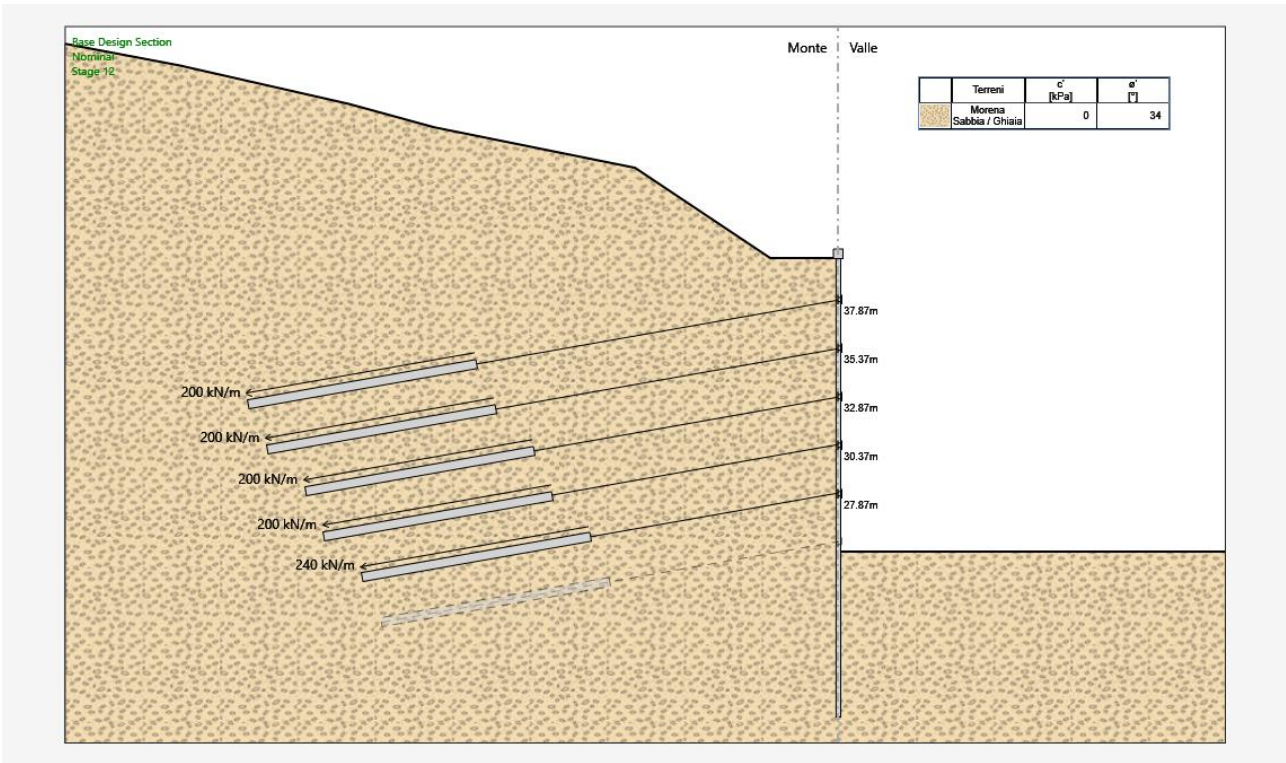
FASE 9: TESATURA DELLA 4° FILA DI TIRANTI



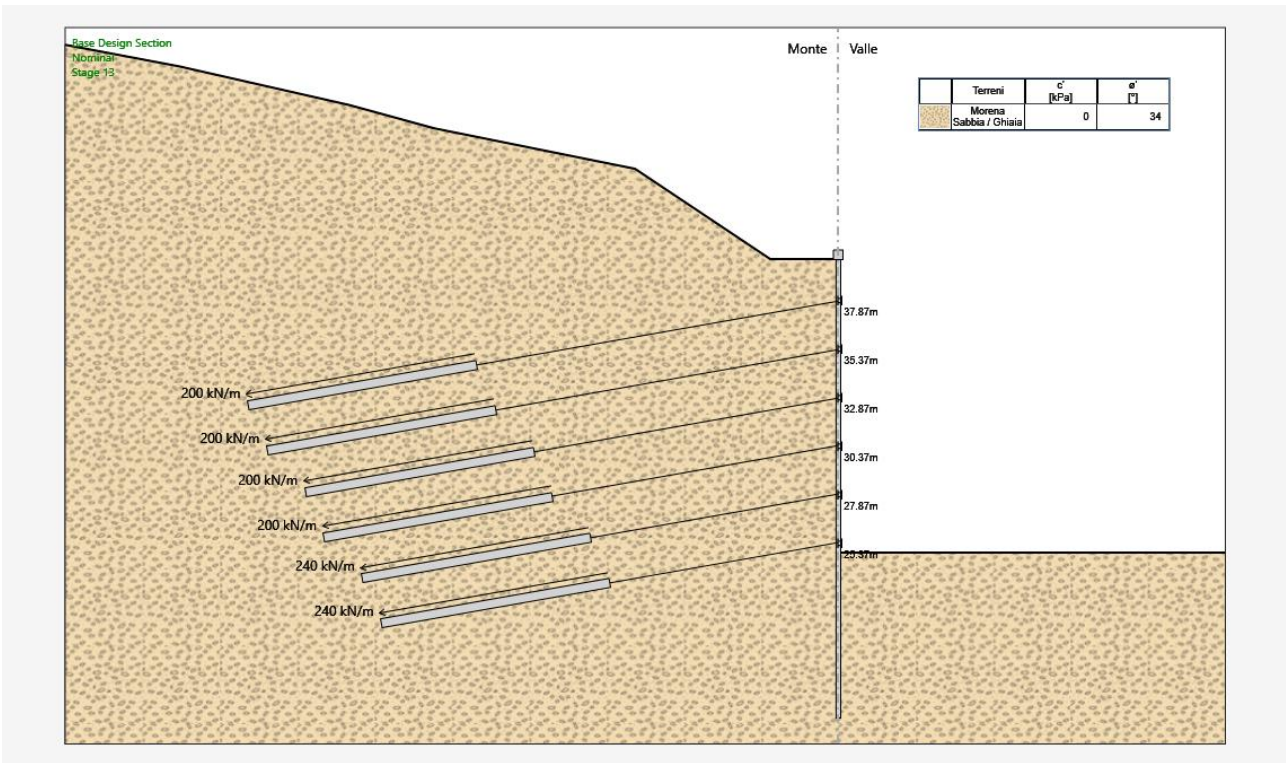
FASE 10: SCAVO FINO QUOTA -0.50 M DALLA 5° FILA DI TIRANTI



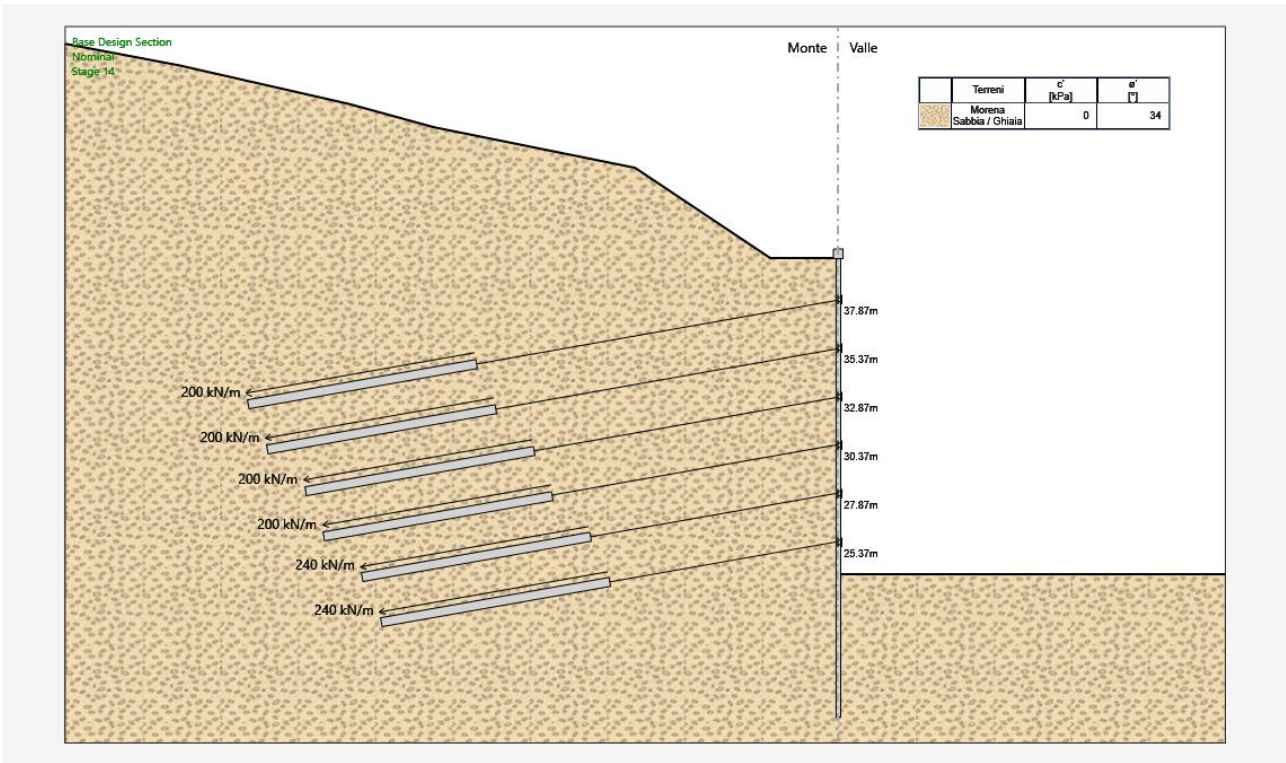
FASE 11: TESATURA DELLA 5° FILA DI TIRANTI



FASE 12: SCAVO FINO QUOTA -0.50 M DALLA 6° FILA DI TIRANTI



FASE 13: TESATURA DELLA 6° FILA DI TIRANTI

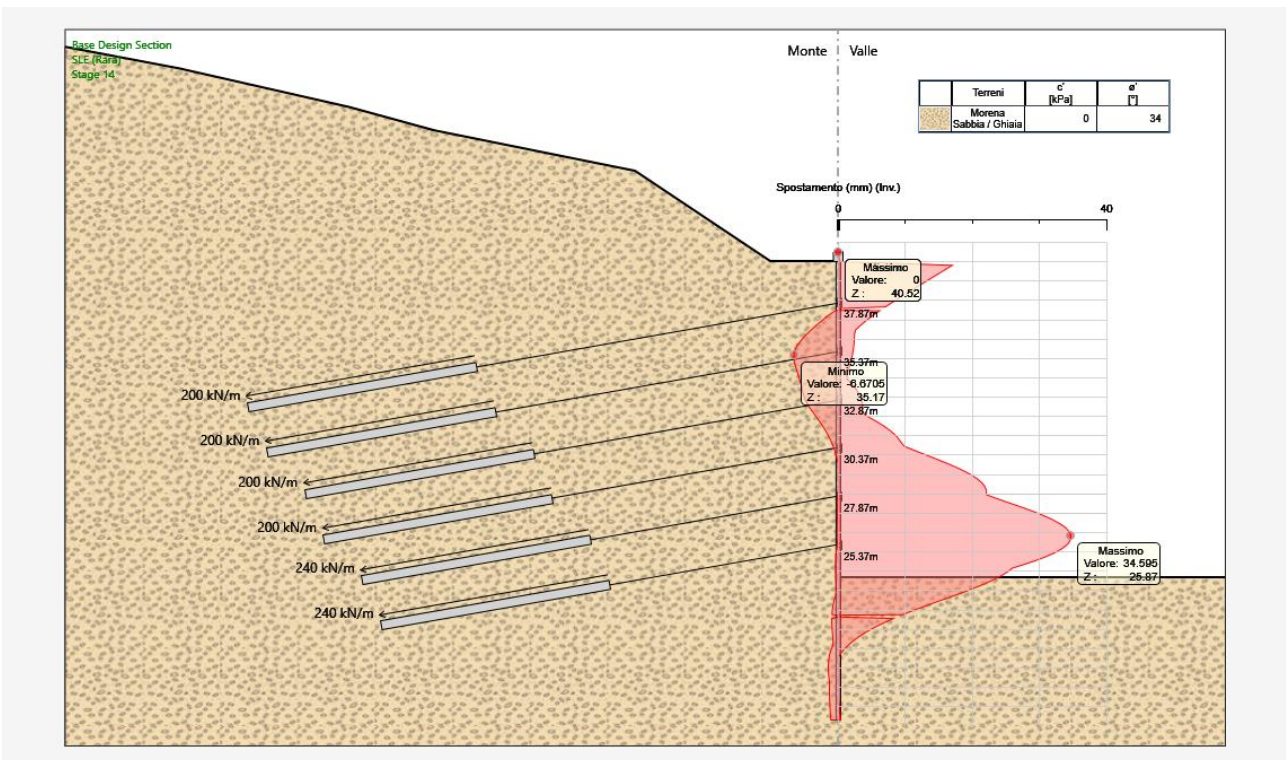


FASE 14: SCAVO FINO ALLA QUOTA DEFINITIVA PREVISTA

8.2 RISULTATI GRAFICI

8.2.1 Deformate

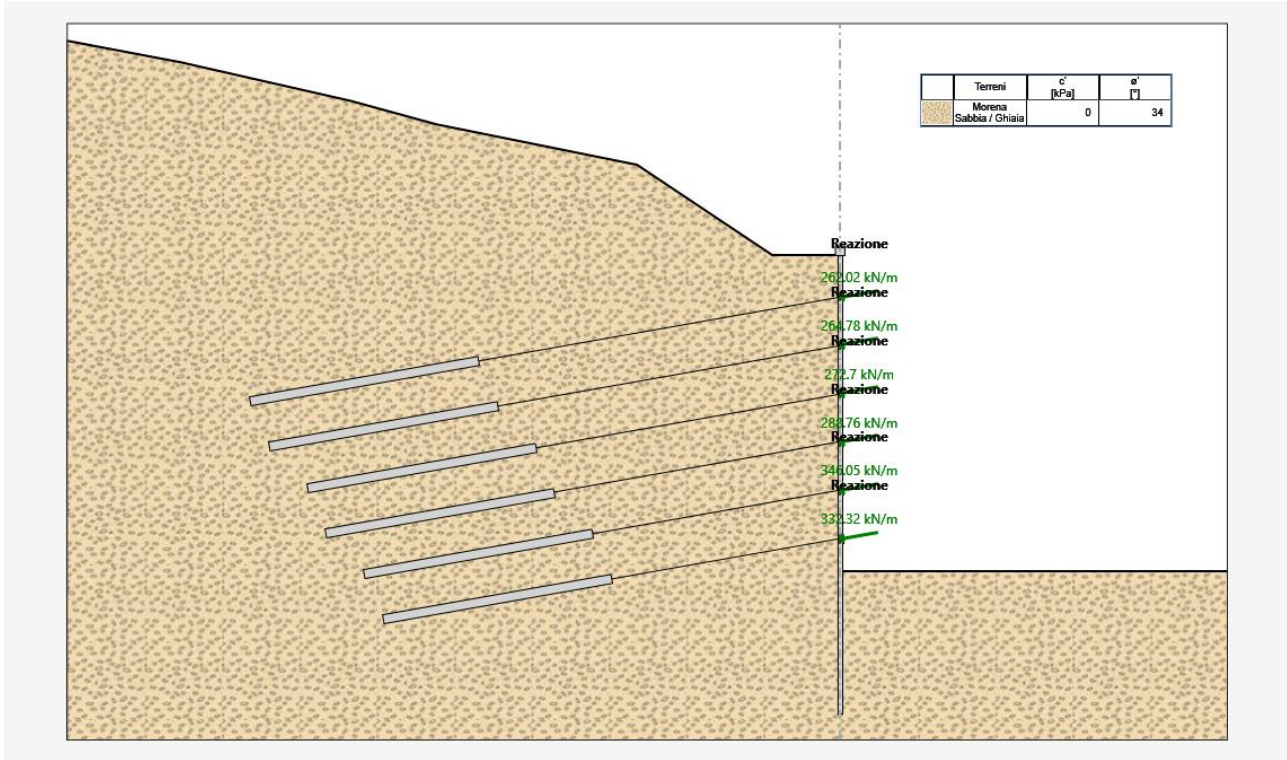
Le deformate, espresse in mm, sono visualizzate per l'involuppo di tutte le fasi della combinazione caratteristica (rara).



INVILUPPO FASI 1-14: COMBINAZIONE RARA - DEFORMATA

8.2.2 Reazioni (tiranti)

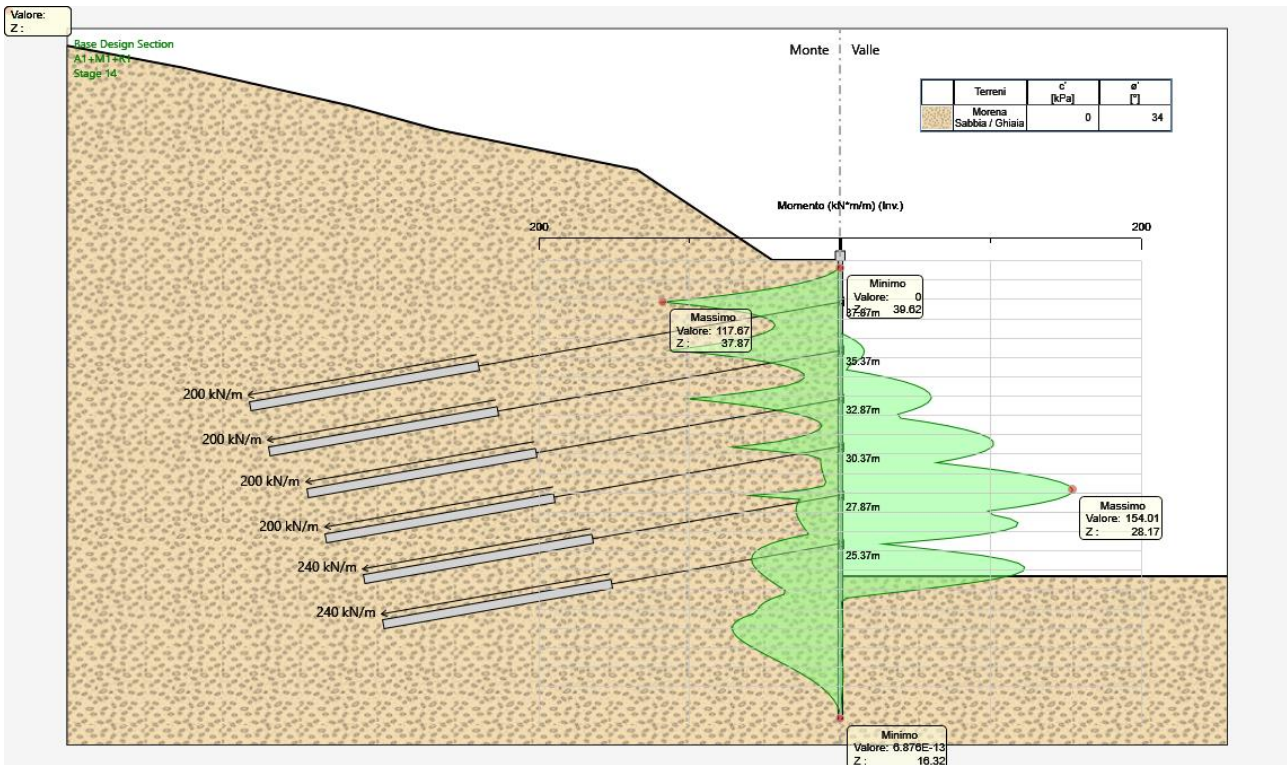
I valori delle reazioni ai tiranti sono espressi in kN/ml per gli involuppi delle combinazioni allo stato limite ultimo: STR: A1+M1+R1.



INVILUPPO FASI 1-14: COMBINAZIONE STR (A1+M1+R1) - REAZIONI TIRANTI

8.2.3 Momenti flettenti sui micropali

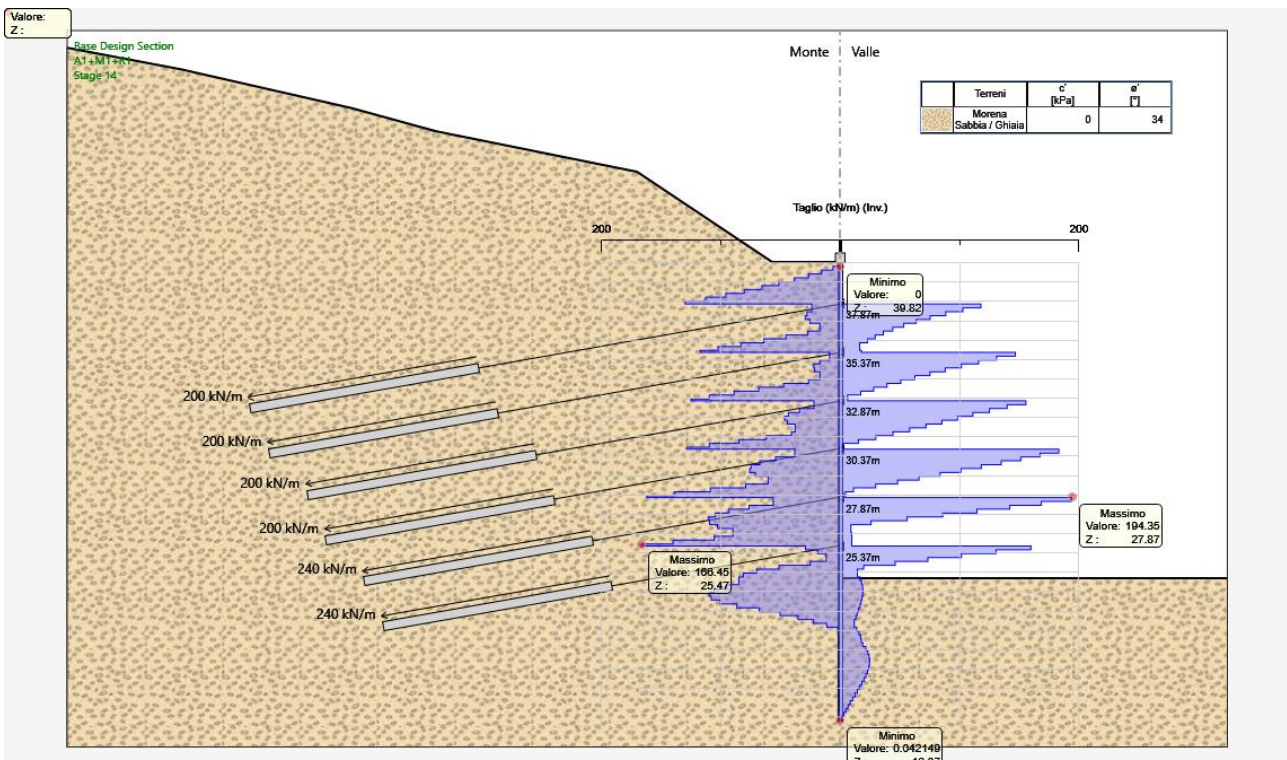
I momenti flettenti sulle strutture sono espressi in kNm/ml per gli involuppi delle combinazioni allo stato limite ultimo: STR: A1+M1+R1.



INVILUPPO FASI 1-14: COMBINAZIONE STR (A1+M1+R1) - MOMENTI FLETTENTI

8.2.4 Sforzi di taglio sui micropali

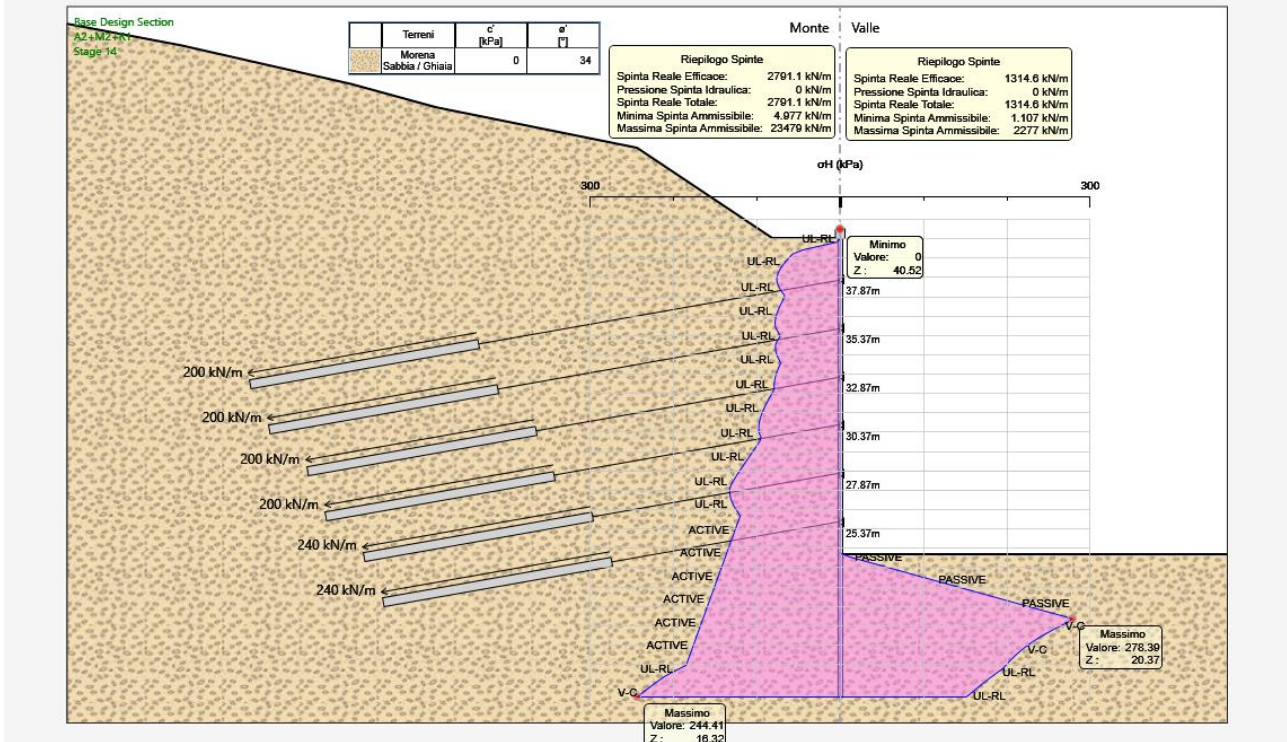
Gli sforzi taglianti sulle strutture sono espressi in kN/ml per gli involuipi delle combinazioni allo stato limite ultimo: STR: A1+M1+R1.



INVILUPPO FASI 1-14: COMBINAZIONE STR (A1+M1+R1) - SFORZI DI TAGLIO

8.2.5 Pressioni orizzontali terreno

Le pressioni sul terreno sono espresse in kN/m² per le combinazioni allo stato limite ultimo: GEO: A2+M2+R1.



FASE 14: COMBINAZIONE GEO (A2+M2+R1) - PRESSIONI ORIZZONTALI EFFICACI E RIASSUNTO SPINTE

8.3 VERIFICHE ALLO STATO LIMITE ULTIMO

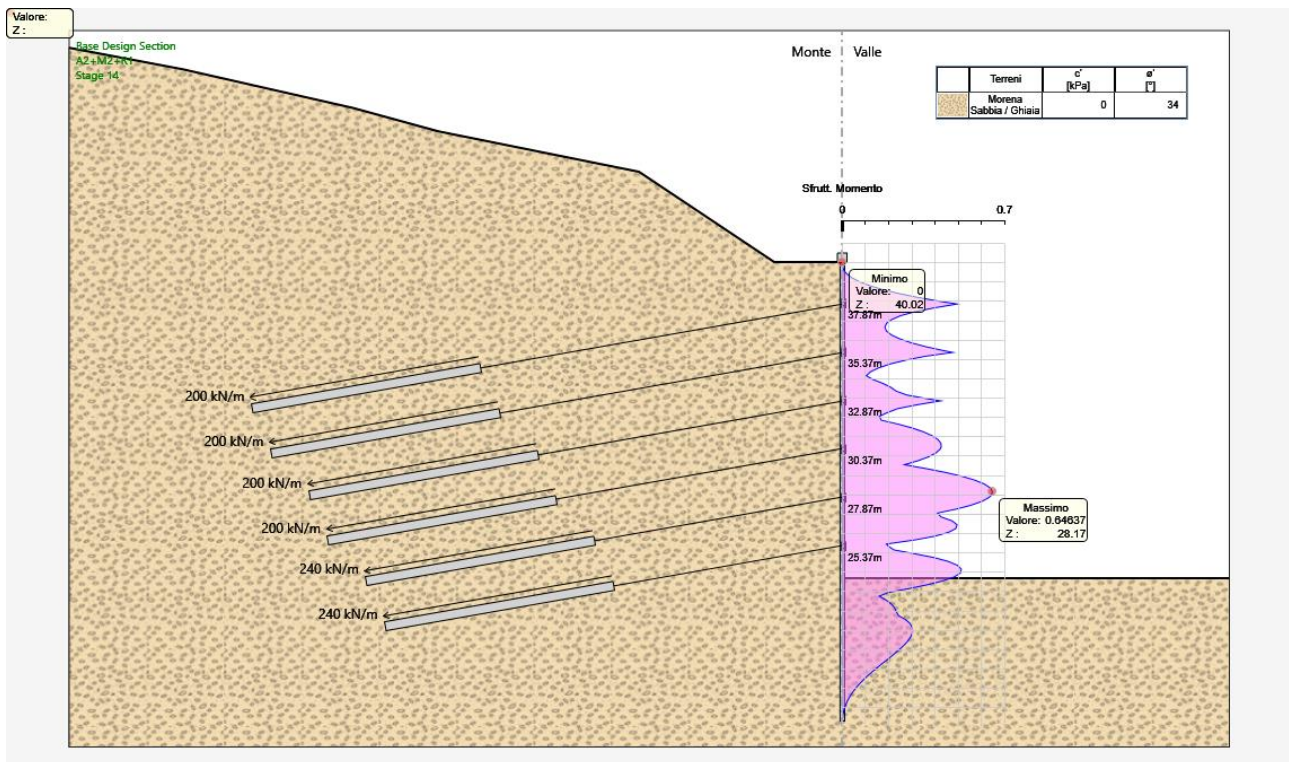
8.3.1 Verifiche strutturali micropali: Verifiche a flessione e taglio

Le verifiche sono svolte automaticamente dal programma di calcolo considerando le sollecitazioni statiche e sismiche derivate dalle combinazioni allo stato limite ultimo: STR: (A1+M1+R1).

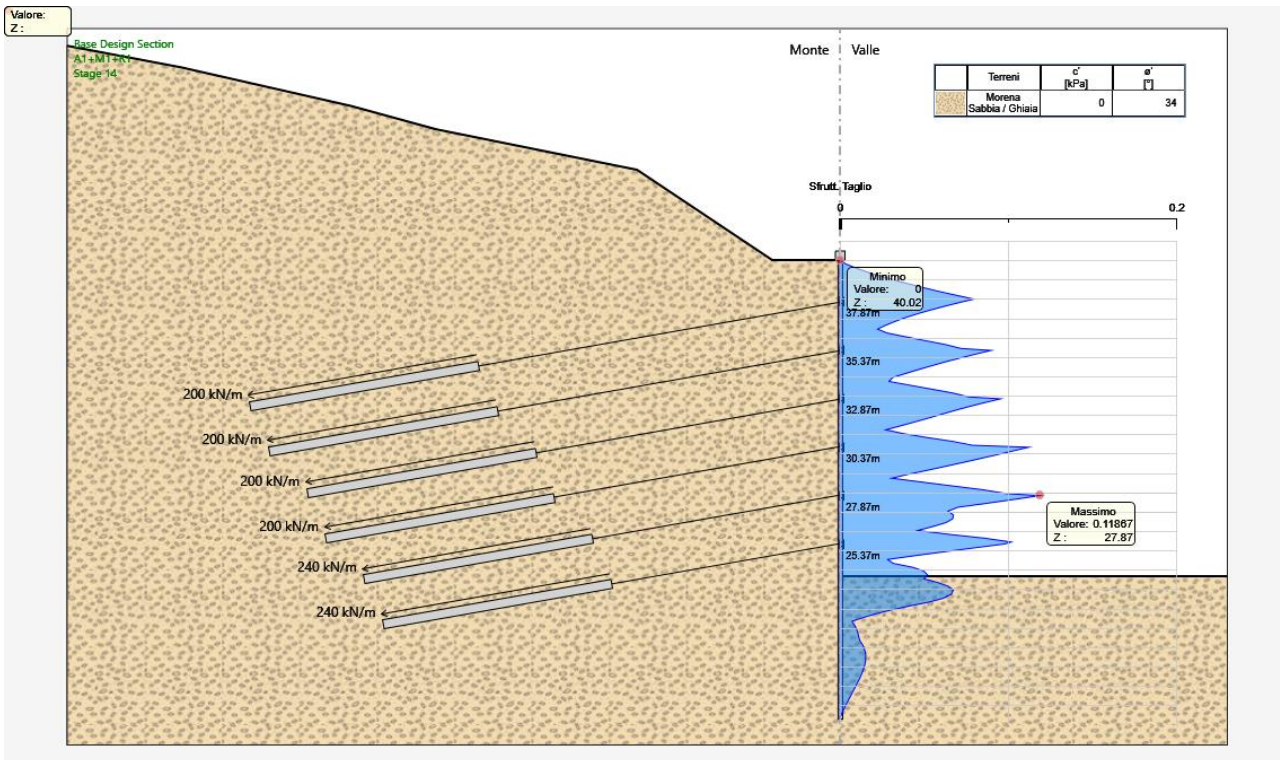
Seguono i diagrammi dei tassi di sfruttamento TS a flessione e a taglio della resistenza dei micropali metallici, per le combinazioni allo stato limite ultimo: STR: (A1+M1+R1).

Le verifiche sono soddisfatte se:
$$TS = \frac{\text{Sollecitazione}}{\text{Resistenza}} \leq 1$$

Lo sforzo assiale viene trascurato; nel calcolo del momento resistente $M_{c,Rd}$ non viene considerata l'interazione con la forza di taglio, in quanto in tutti i casi esaminati il taglio di calcolo associato al momento flettente è sempre inferiore a metà della resistenza di calcolo a taglio $V_{c,Rd}$.



TS FLESSIONE: COMB. SLU: STR (A1+M1+R1); INVILUPPO FASI 1÷14: $TS_{MAX} = 0.646 (<1)$



TS TAGLIO: COMB. SLU: STR (A1+M1+R1); INVILUPPO FASI 1÷10: $TS_{MAX} = 0.119 (<1)$

Verifica analitica: per la combinazione STR (A1+M1+R1) si è ottenuto per il singolo palo:

- . sforzo assiale: trascurabile
- momento flettente: $M_{Ed} = 154.01 \times 0.40 = 61.60 \text{ kNm}$
- sforzo di taglio: $V_{Ed} = 194.35 \times 0.40 = 77.74 \text{ kN}$

Segue tabulato della verifica analitica realizzata con apposito foglio di calcolo.

VERIFICA DI RESISTENZA SEZIONE TUBOLARE

Fattore parziale di resistenza delle sezioni:	$\gamma_{M0} =$	1.05
Tensione caratteristica di snervamento acciaio:		
spessore $t \leq 40$ mm:	$f_{yk} =$	355.00 N/mm ²
spessore $40 \text{ mm} < t \leq 80$ mm:	$f_{yk} =$	335.00 N/mm ²
Diametro esterno:	$d =$	177.8 mm
Spessore nominale:	$t =$	10.0 mm
Classificazione sezione:		Classe 1 (compatta)
Massa:	$P =$	41.38 kg/m
Area sezione metallica:	$A =$	5272 mm ²
Area resistente a taglio:	$A_v =$	3356 mm ²
Momento d'inerzia elastico:	$J =$	18619818 mm ⁴
Raggio d'inerzia:	$i =$	59.4 mm
Modulo di resistenza elastico:	$W_e =$	209447 mm ³
Modulo di resistenza plastico:	$W_p =$	281893 mm ³
Resistenza di calcolo a compressione:	$N_{c,Rd} =$	1782.30 kN
Resistenza di calcolo a flessione:	$M_{c,Rd} =$	95.31 kN.m
Resistenza di calcolo a taglio:	$V_{c,Rd} =$	655.09 kN
Verifica di resistenza combinata assiale/flessione/taglio:		
Sforzo assiale di progetto:	$N_{Ed} =$	0 kN
Sforzo tagliante di progetto:	$V_{Ed} =$	77.74 kN
Momento flettente di progetto:	$M_{Ed} =$	61.60 kN.m
Tensione di snervamento ridotta per interazione tra flessione e taglio (se la sollecitazione di taglio supera il 50 % della resistenza):	$f_{y,red} =$	355.00 N/mm ²
Verifica combinata assiale/flessione: $N_{Ed} / N_{c,Rd} + M_{Ed} / M_{c,Rd} \leq 1$:		0.646 (≤ 1 :VERIFICATO)

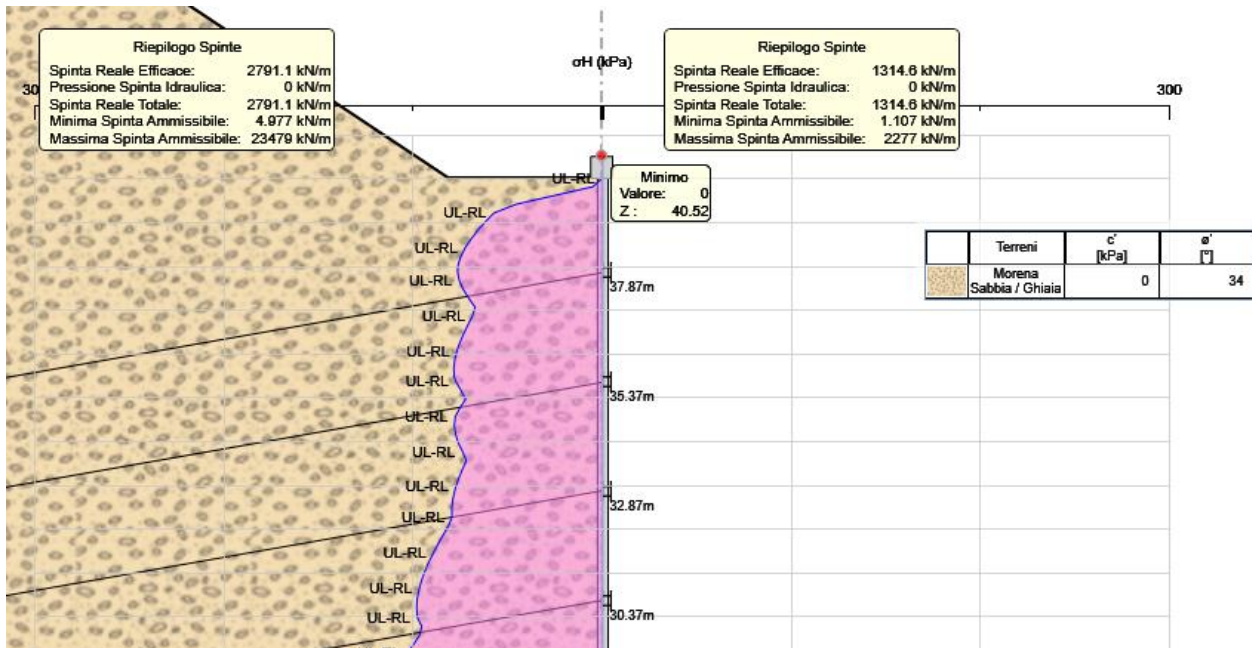
8.3.2 Verifiche geotecniche: Verifica di stabilità del fondo scavo

La verifica di stabilità del lato a valle della paratia è effettuata considerando il rispetto dei due seguenti criteri:

- 1) Il calcolo non lineare della paratia deve convergere a una soluzione equilibrata e congruente;
- 2) Sul lato di scavo (valle) la spinta efficace mobilitata deve essere minore della spinta passiva disponibile, quindi il loro rapporto deve essere < 1 .

Dall'esame dei tabulati di calcolo, in particolare quello relativo a GEO (A2+M2+R1), combinazione più gravosa (ved. p. 8.2.5), si desume:

- 1) Il calcolo non lineare converge a una soluzione equilibrata per tutte le fasi di calcolo.
- 2) Il rapporto tra la spinta mobilitata e la spinta passiva possibile assume il massimo nella fase 14 con il valore (vedi figura seguente):



$$\frac{\text{Spinta Reale Totale}}{\text{Massima Spinta Ammissibile}} = \frac{1314.6}{2277} = 0.58 \quad (< 1: \text{verificato})$$

8.3.3 Tiranti attivi : Verifica strutturale e allo sfilamento dell'ancoraggio

La verifica viene svolta considerando uno stato limite GEO di tipo A1+M1+R3.

La resistenza del bulbo di ancoraggio dei tiranti attivi viene calcolata con il metodo di Bustamante-Doix (Rif. Bustamante M., Doix B. (1985): "Une méthode pour le calcul des tirants et des micropieux injectés", Bull. Liaison Lab. Ponts et Chaussées, n. 140, pagg. 75-95).

Si verifica inoltre, nell'ottica della gerarchia delle resistenze, che la resistenza caratteristica allo snervamento del tirante sia maggiore della resistenza a sfilamento di progetto dell'ancoraggio (p. 6.6.2. NTC 2018).

Dati geometrici:

- lunghezza bulbo di ancoraggio: $L = 12 \text{ m}$
- diametro perforazione: $\varnothing = 160 \text{ mm}$
- sollecitazione massima (Tirante E1, Fase 12): $N_{Ed} = 362.43 \times 2.00 = 725 \text{ kN}$
- resistenza assiale tirante (4x0.6"): $R_k = 4 \times 139 \times 1670/10^3 = 928 \text{ kN}$

- Per:
- tipo di terreno: sabbioso/ghiaioso
 - tipo di iniezione: ripetute e selettive ad alta pressione (IRS)

si ha (Bustamante-Doix):

- resistenza unitaria limite: $q_s = 179 \text{ kN/m}^2$
- fattore di incremento del diametro: $\alpha = 1.4$
- coefficiente parziale resistenza caratteristica (tiranti provvisori): $\gamma_{Ra,t} = 1.1$
- fattore di correlazione (1 sondaggio): $\xi_{a3} = 1.8$

Si determina quindi per il bulbo di ancoraggio:

- resistenza limite: $R_{lim} = \alpha \pi \varnothing \Sigma(L q_s) = 1.4 \times \pi \times 0.16 \times 12 \times 179 = 1512 \text{ kN}$
- resistenza caratteristica: $R_{ck} = \frac{R_{lim}}{\xi_{a3}} = \frac{1512}{1.8} = 840 \text{ kN}$

- resistenza di progetto: $R_{cd} = \frac{R_{ck}}{\gamma_{Ra,t}} = \frac{840}{1.1} = 763 \text{ kN}$

Verifica di resistenza del tirante: $R_k > N_{Ed} : 928 \text{ kN} > 725 \text{ kN}$: Verificato.

Verifica di resistenza dell'ancoraggio: $R_{cd} > N_{Ed} : 763 \text{ kN} > 725 \text{ kN}$: Verificato.

Verifica della gerarchia delle resistenze: $R_k > R_{cd} : 928 \text{ kN} > 763 \text{ kN}$: Verificato.

8.3.4 Travi di ripartizione - Verifica strutturale a flessione e taglio

Le travi di ripartizione dei tiranti sono considerate come continue su più appoggi aventi luce $L = 2.40 \text{ m}$ o $L = 2.00 \text{ m}$, supposte caricate uniformemente dalla reazione orizzontale del tirante.

Le sollecitazioni massime allo stato limite ultimo risultano per il singolo profilato:

a) tiranti A1, B1, C1, D1 con interasse 2.40 m

- sforzo di taglio: $V_{Ed} = 288.8 \times \cos 10^\circ \times 2.40 / (2 \times 2) = 170.6 \text{ kN}$

- momento flettente: $M_{Ed} = 288.8 \times \cos 10^\circ \times 2.40^2 / (10 \times 2) = 81.91 \text{ kNm}$

b) tiranti E1, F1 con interasse 2.00 m

- sforzo di taglio: $V_{Ed} = 362.4 \times \cos 10^\circ \times 2.00 / (2 \times 2) = 178.4 \text{ kN}$

- momento flettente: $M_{Ed} = 362.4 \times \cos 10^\circ \times 2.00^2 / (10 \times 2) = 71.38 \text{ kNm}$

In alternativa si considerano le travi di ripartizione come mensole a sbalzo aventi luce $L = 1.40 \text{ m}$ (4 pali) per i tiranti con interasse 2.40 m e luce $L = 1.00 \text{ m}$ (3 pali) per i tiranti con interasse 2.00 m, supposte caricate uniformemente dalla reazione orizzontale del tirante.

Le sollecitazioni massime allo stato limite ultimo risultano per il singolo profilato:

c) tiranti A1, B1, C1, D1 con interasse 2.40 m

- sforzo di taglio: $V_{Ed} = 288.8 \times \cos 10^\circ \times 1.40 / 2 = 199.1 \text{ kN}$

- momento flettente: $M_{Ed} = 288.8 \times \cos 10^\circ \times 1.40^2 / (2 \times 2) = 139.4 \text{ kNm}$

d) tiranti E1, F1 con interasse 2.00 m

- sforzo di taglio: $V_{Ed} = 362.4 \times \cos 10^\circ \times 1.00 / 2 = 178.4 \text{ kN}$

- momento flettente: $M_{Ed} = 362.4 \times \cos 10^\circ \times 1.00^2 / (2 \times 2) = 89.2 \text{ kNm}$

La verifica viene svolta considerando gli sforzi massimi, caso c).

Caratteristiche di resistenza del profilato HE 220 A, acciaio S275:

- profilato compatto (Classe 2)

- resistenza caratteristica: $f_{yk} = 275 \text{ N/mm}^2$

- area resistente a taglio: $A_{yz} = 20.67 \text{ cm}^2$

- modulo di resistenza plastico: $W_{pl,y} = 568.5 \text{ cm}^3$

- resistenza a taglio: $V_{c,Rd} = \frac{A_{yz} \cdot f_{yk}}{\sqrt{3} \cdot \gamma_{M0}} = \frac{20.67 \cdot 275}{\sqrt{3} \cdot 1.05} \cdot \frac{1}{10} = 312 \text{ kN}$

- verifica di resistenza a taglio: $\frac{V_{Ed}}{V_{c,Rd}} = \frac{199.1}{312} = 0.638 \quad (< 1 : \text{Verificato})$

Dato che $V_{Ed} > 0.5 V_{c,Rd}$ occorre considerare l'influenza del taglio sulla resistenza a flessione:

- fattore d'influenza: $\rho = \left(\frac{2 \cdot V_{Ed}}{V_{c,Rd}} - 1 \right)^2 = 0.076$

- resistenza a flessione e taglio:

$$M_{y,V,Rd} = \frac{\left(W_{pl,y} \frac{\rho \cdot A_y^2}{4 \cdot t_w} \right) \cdot f_{yk}}{\gamma_{M0}} = \frac{\left(568.5 - \frac{0.076 \cdot 20.67^2}{4 \cdot 0.7} \right) \cdot 275}{1.05} \cdot 10^{-3} = 145.8 \text{ kNm}$$

- verifica di resistenza a flessione: $\frac{M_{Ed}}{M_{y,V,Rd}} = \frac{139.4}{145.8} = 0.956 < 1$: Verificato

8.3.5 Cordolo di testa - Verifica strutturale a flessione e taglio

Si omettono le verifiche del cordolo che non è direttamente sollecitato; si dispone comunque una armatura adeguata.

8.3.6 Verifica di stabilità globale dell'insieme terreno-struttura

La verifica di stabilità globale del pendio viene svolta facendo riferimento alla sezione più gravosa nella fase finale (10); si considera la Combinazione 2: GEO (A2+M2+R2).

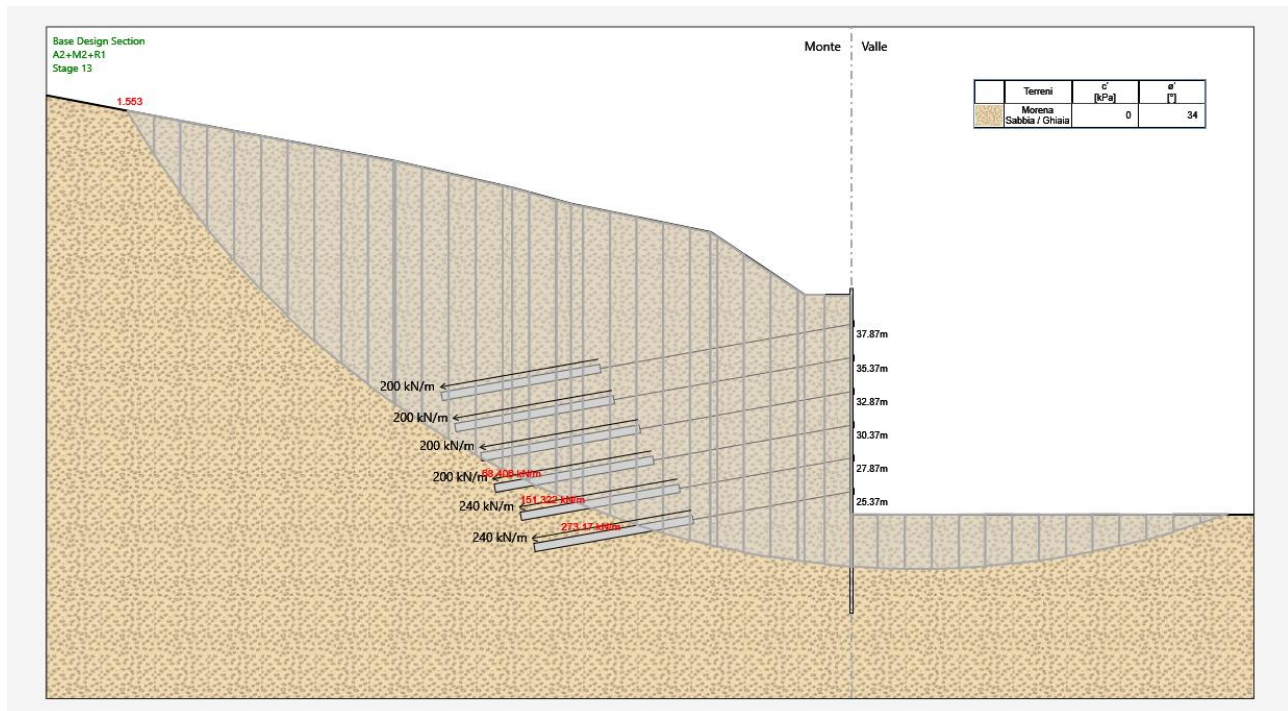
L'analisi viene svolta utilizzando il programma Paratie Plus della Ceas di Milano.

Nella fattispecie è stato utilizzato il metodo di Bishop semplificato con una generazione semi-automatica di superfici di scorrimento circolari..

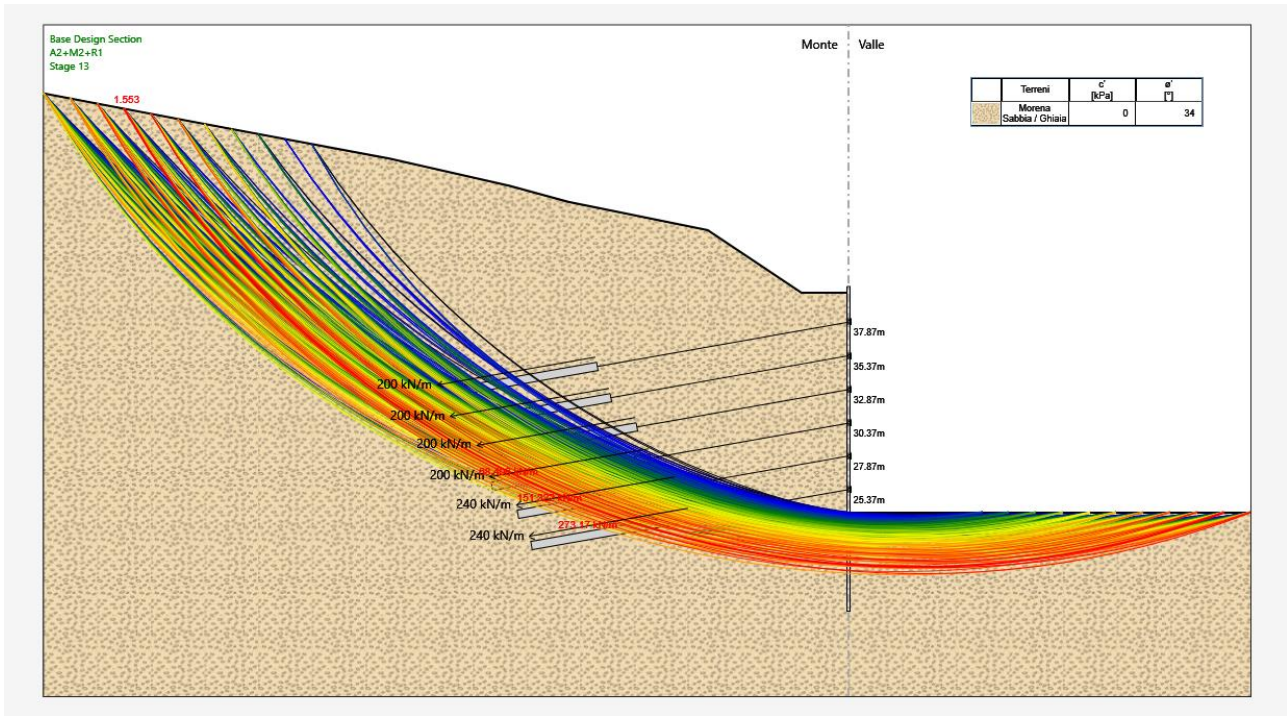
A favore della sicurezza si trascura nel calcolo il contributo della paratia.

Seguono gli schemi grafici del calcolo svolto; il coefficiente di sicurezza minimo risulta:

$$FS_{min} = 1.553 \quad (FS_{min} > 1.1: \text{Verificato})$$



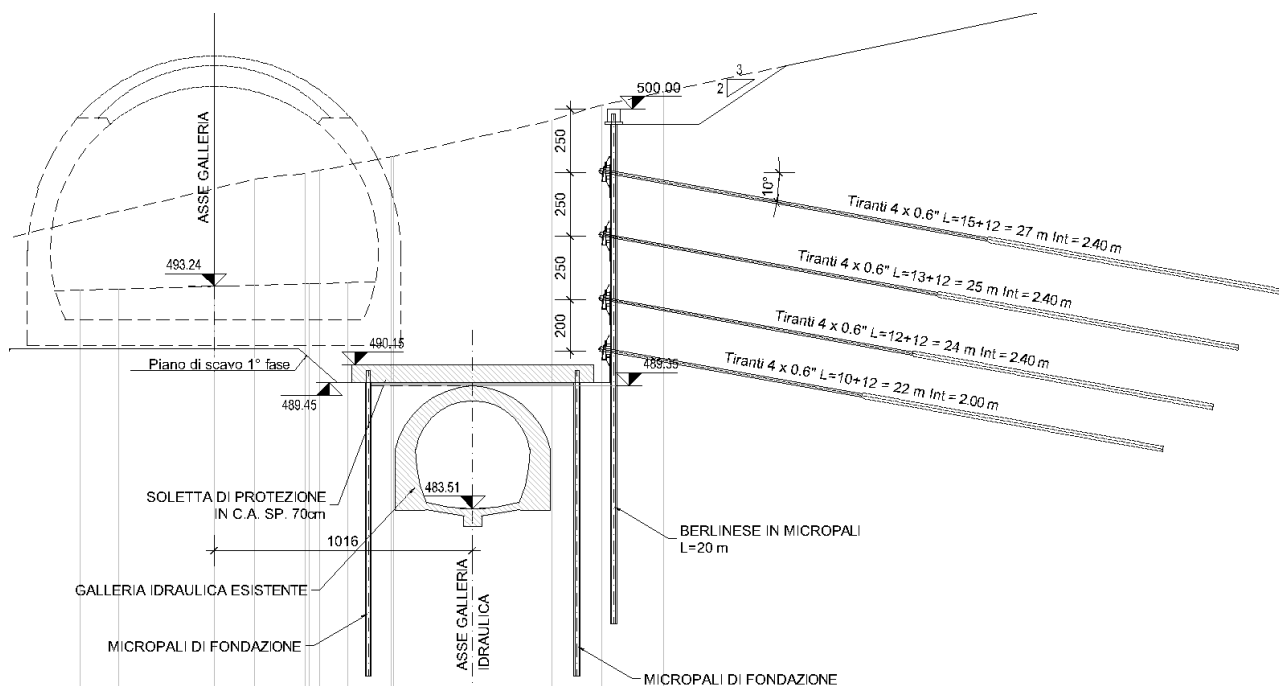
VERIFICA DI STABILITÀ GLOBALE - SUPERFICIE CRITICA



VERIFICA DI STABILITÀ GLOBALE - TUTTE LE SUPERFICI GENERATE.

9 ANALISI PARATIA IN ADIACENZA GALLERIA IDRAULICA ESISTENTE

Il tratto ha altezza di scavo costante; si considera per il calcolo la sezione alla Pk. 5+065.35 di cui segue estratto.



Dalla figura precedente si evidenzia che il terreno a valle della paratia potrebbe avere caratteristiche geotecniche alterate dalla costruzione della galleria esistente; nei calcoli seguenti se ne tiene conto riducendone forfaitariamente le caratteristiche elastiche e di resistenza (passiva) al 50 %; per il tratto interessato dalla galleria si usano quindi i seguenti:

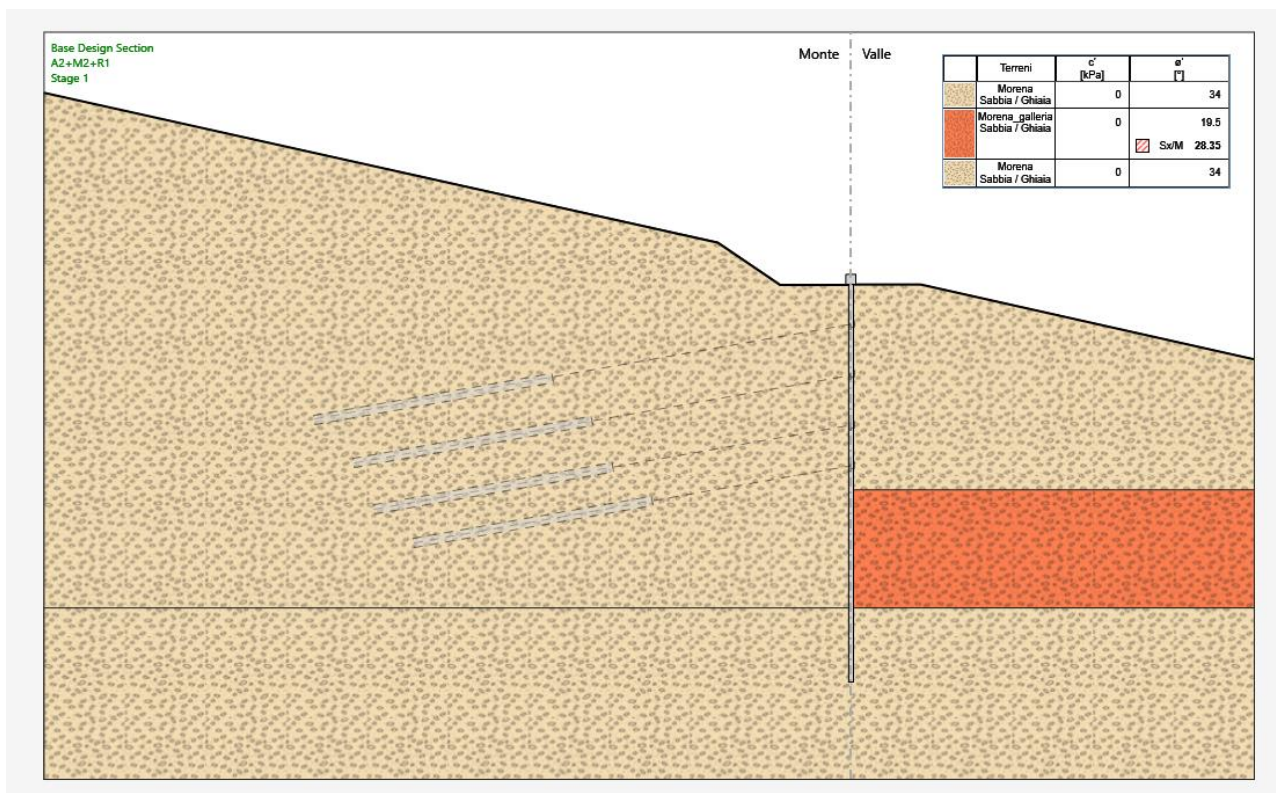
peso specifico apparente: $\gamma = 20 \text{ kN/m}^3$
 angolo di attrito interno: $\phi = 19.5^\circ$
 coesione drenata: $c' = 0 \text{ kN/m}^2$
 modulo di deformazione: $E = 10500 \text{ kN/m}^2$

Segue riassunto dei coefficienti di spinta adottati nel programma di calcolo.

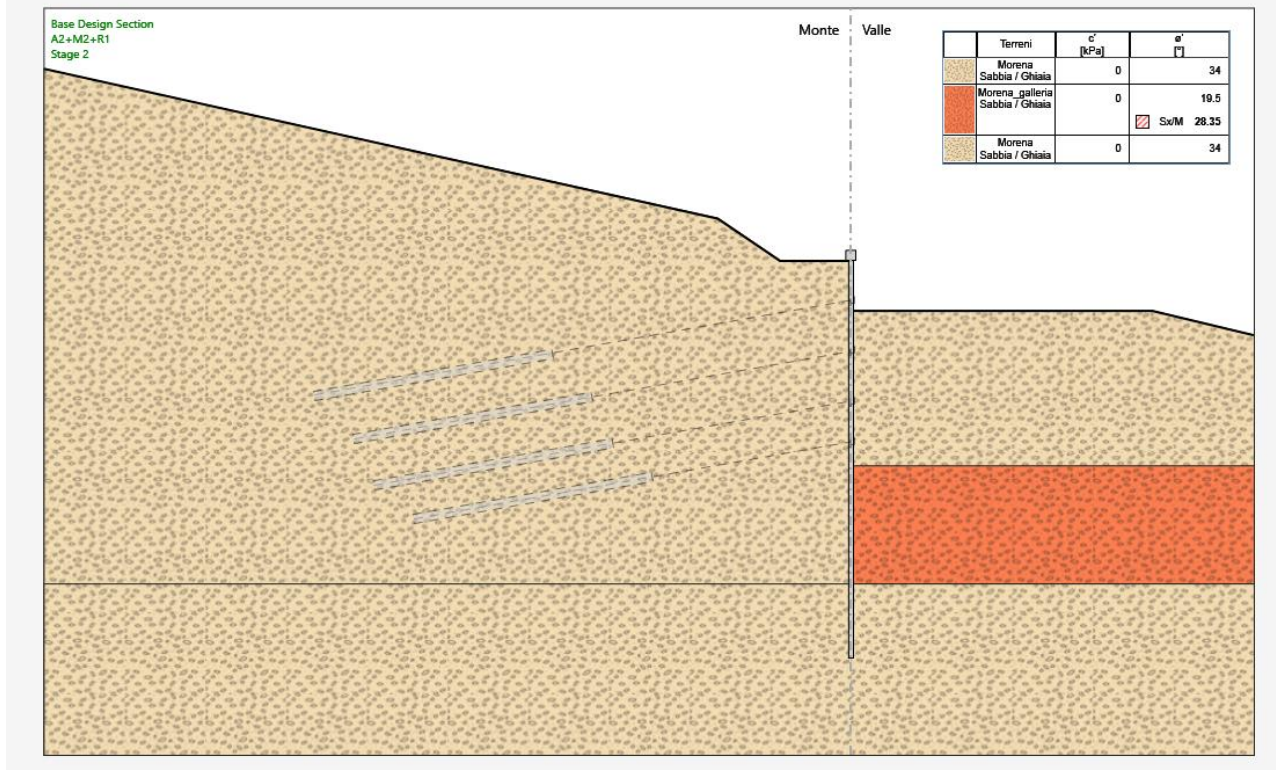
Terreno	Combinazione	A Monte		A Valle	
		K_{ah} ($\delta/\phi=0.66$)	K_{ph} ($\delta/\phi=0.66$)	K_{ah} ($\delta/\phi=0.66$)	K_{ph} ($\delta/\phi=0.66$)
Morene	M1	0.28	6.07	0.234	6.07
	M2	0.37	4.18	0.30	4.18
Morene (galleria)	M1	0.37	4.18	0.435	2.52
	M2	0.37	4.18	0.51	2.08

9.1 FASI ESECUTIVE DI CALCOLO

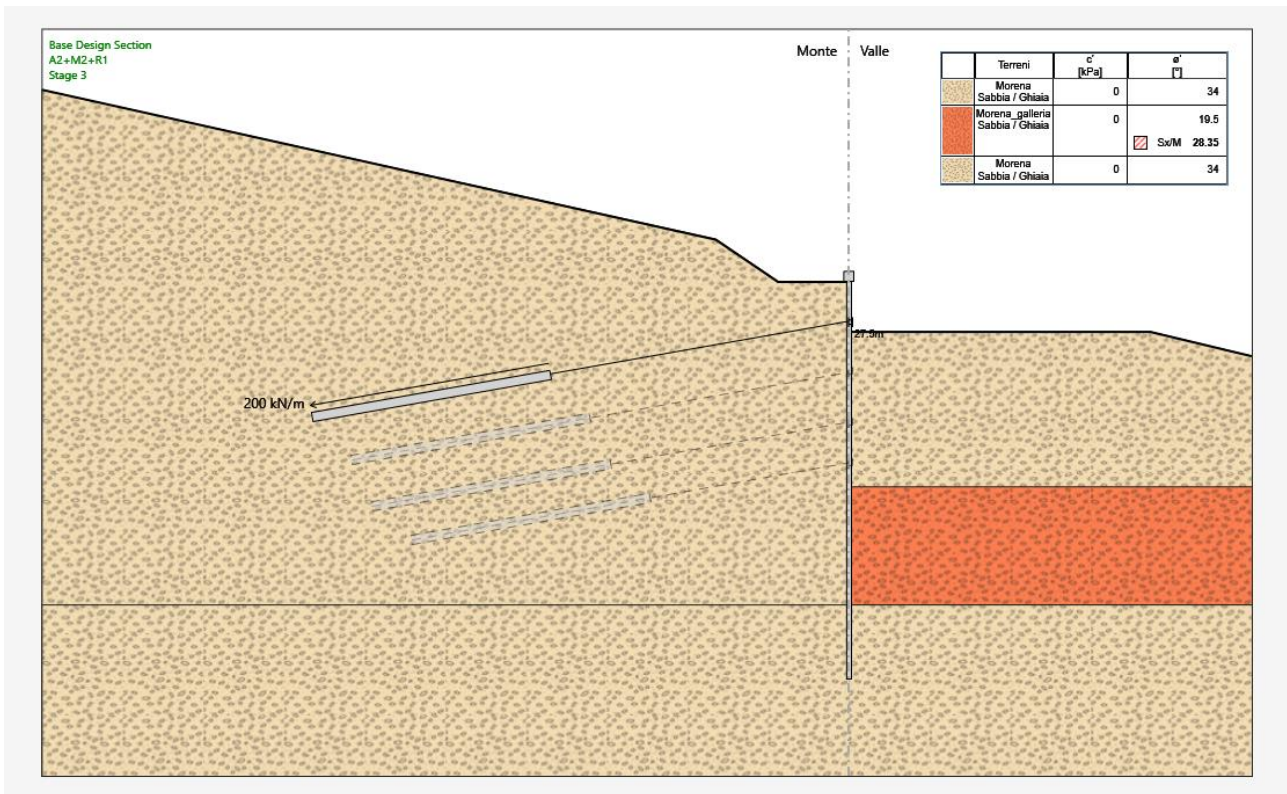
Seguono gli schemi grafici di ogni fase di calcolo del programma "ParatiePlus".



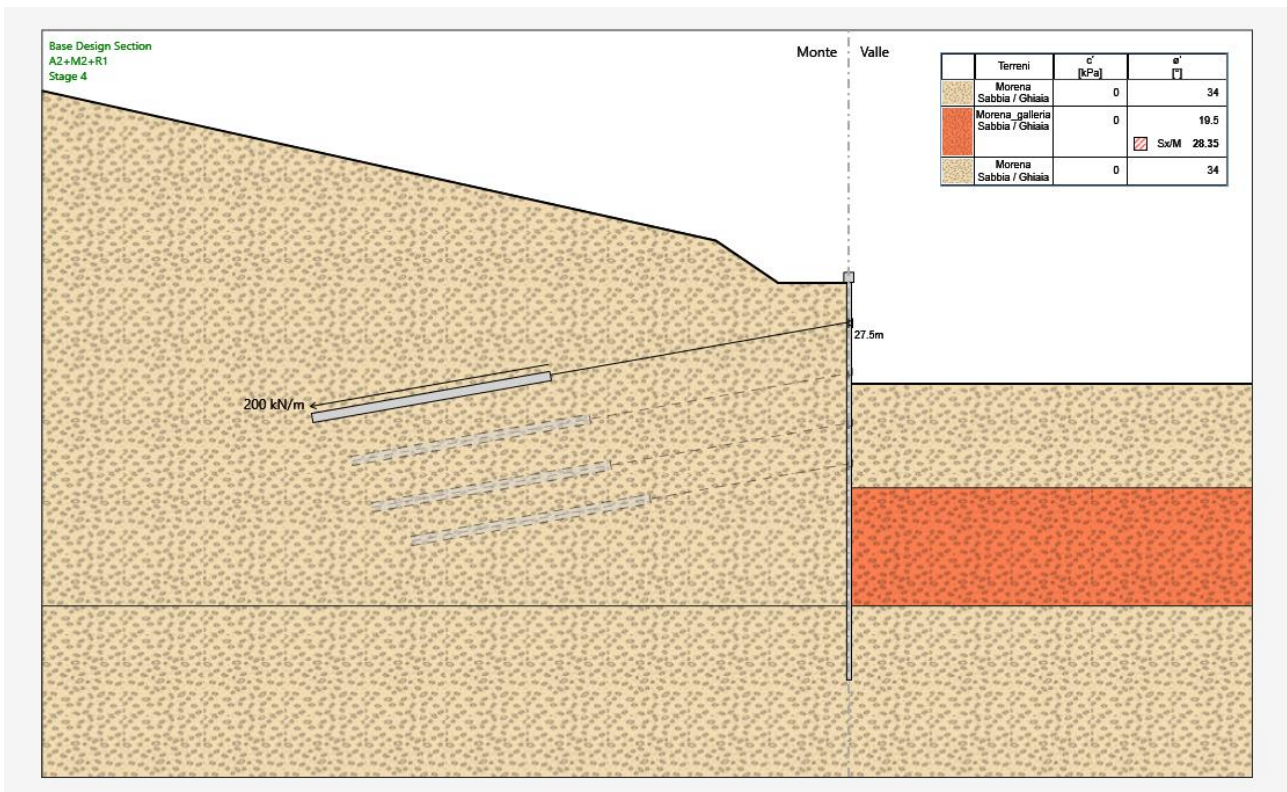
FASE 1: FASE GEOSTATICA DI INIZIALIZZAZIONE: REALIZZAZIONE MICROPALI



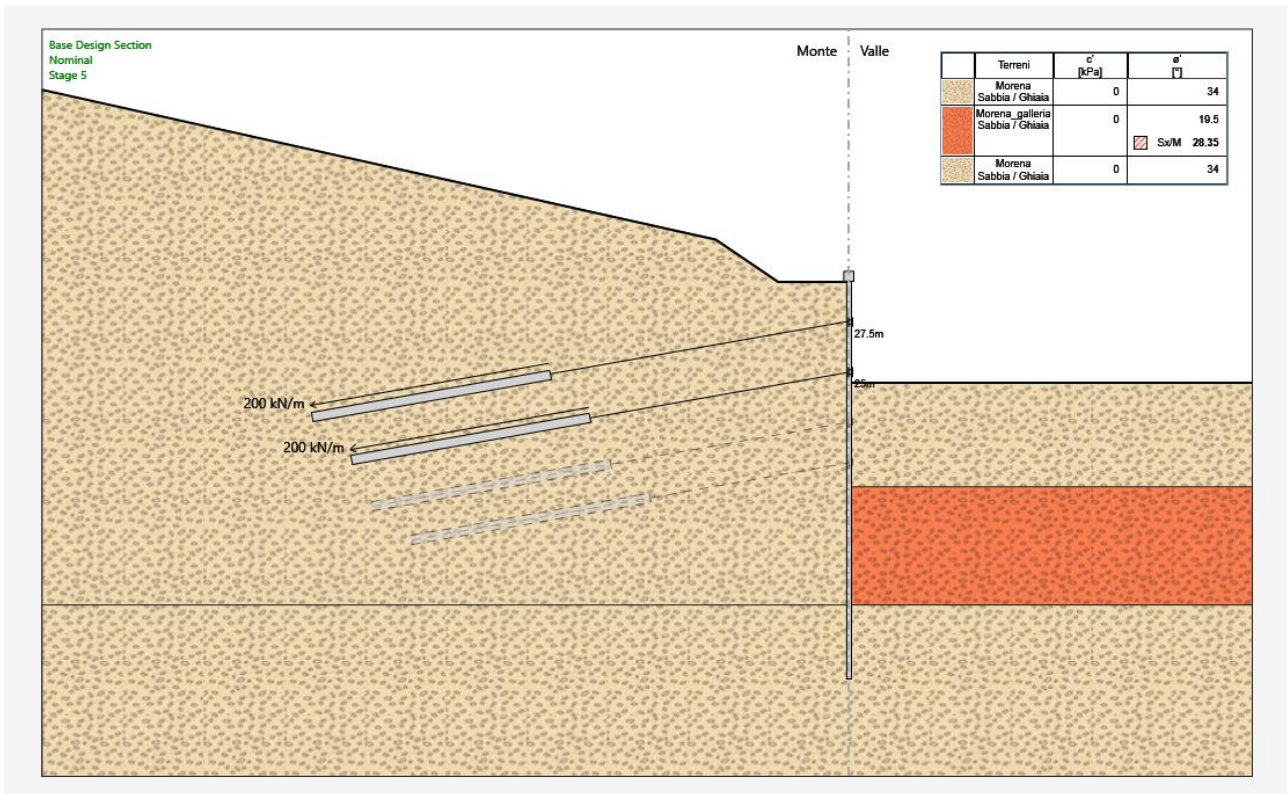
FASE 2: SCAVO FINO QUOTA -0.50 M DALLA 1° FILA DI TIRANTI



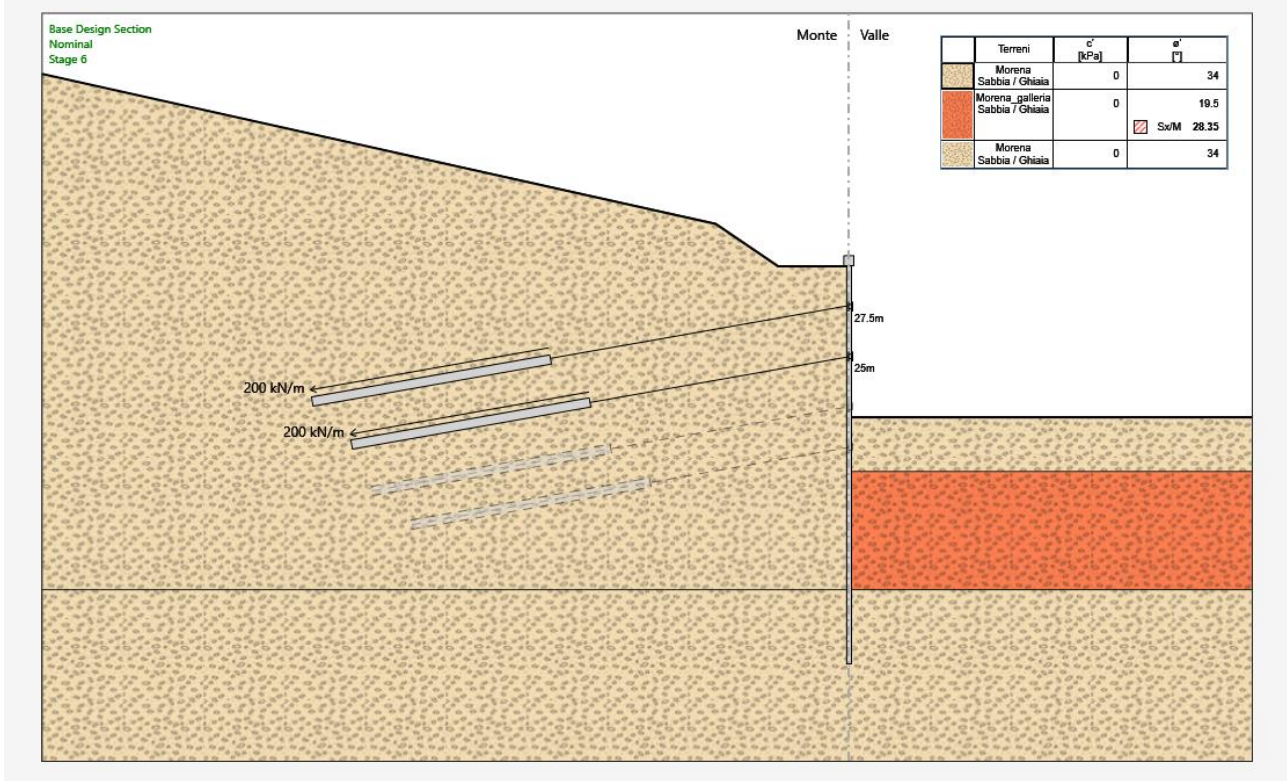
FASE 3: TESATURA DELLA 1° FILA DI TIRANTI



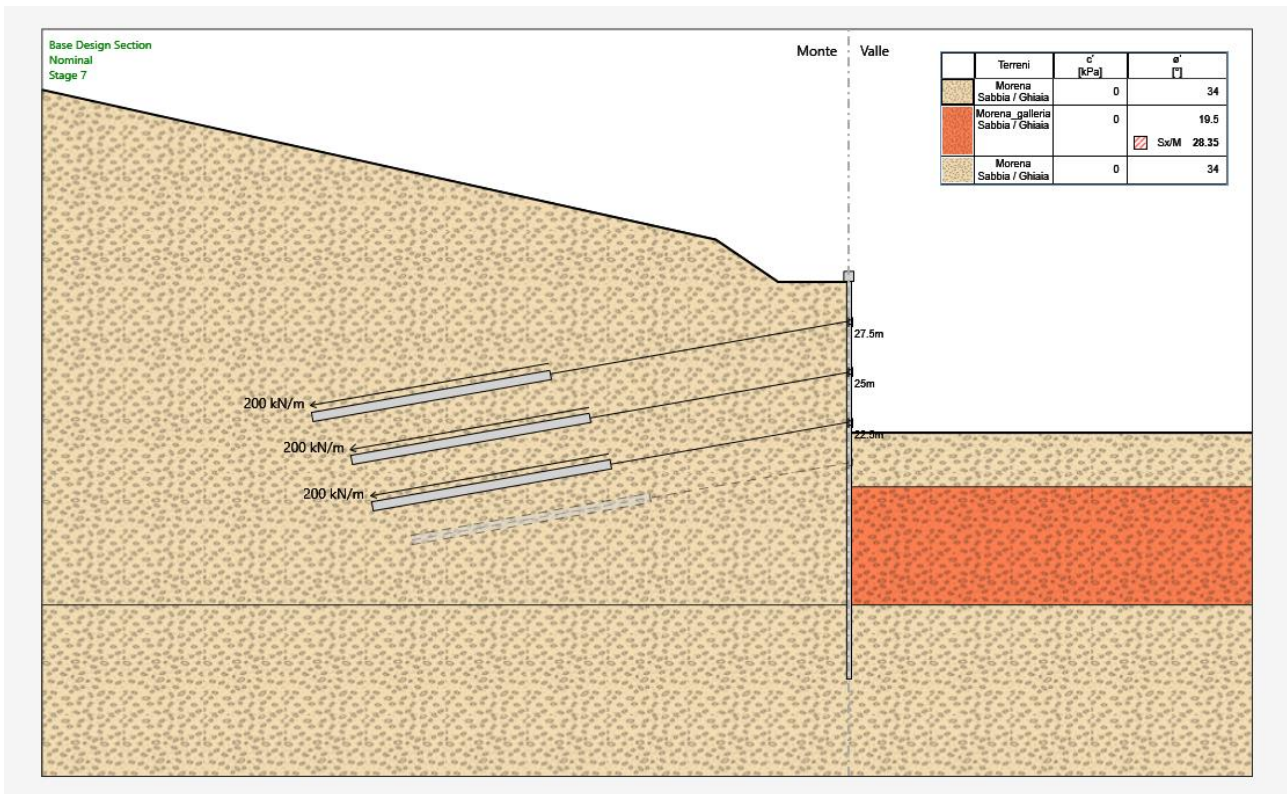
FASE 4: SCAVO FINO QUOTA -0.50 M DALLA 2° FILA DI TIRANTI



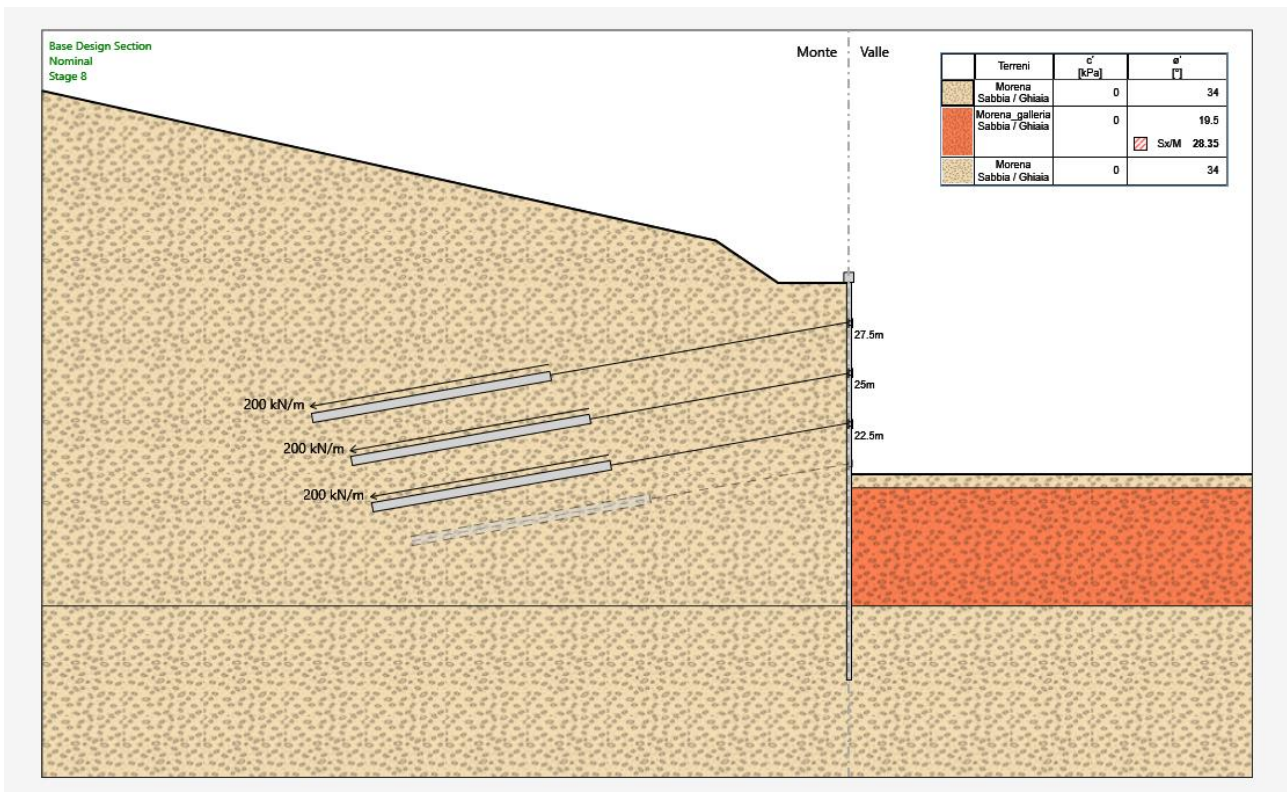
FASE 5: TESATURA DELLA 2° FILA DI TIRANTI



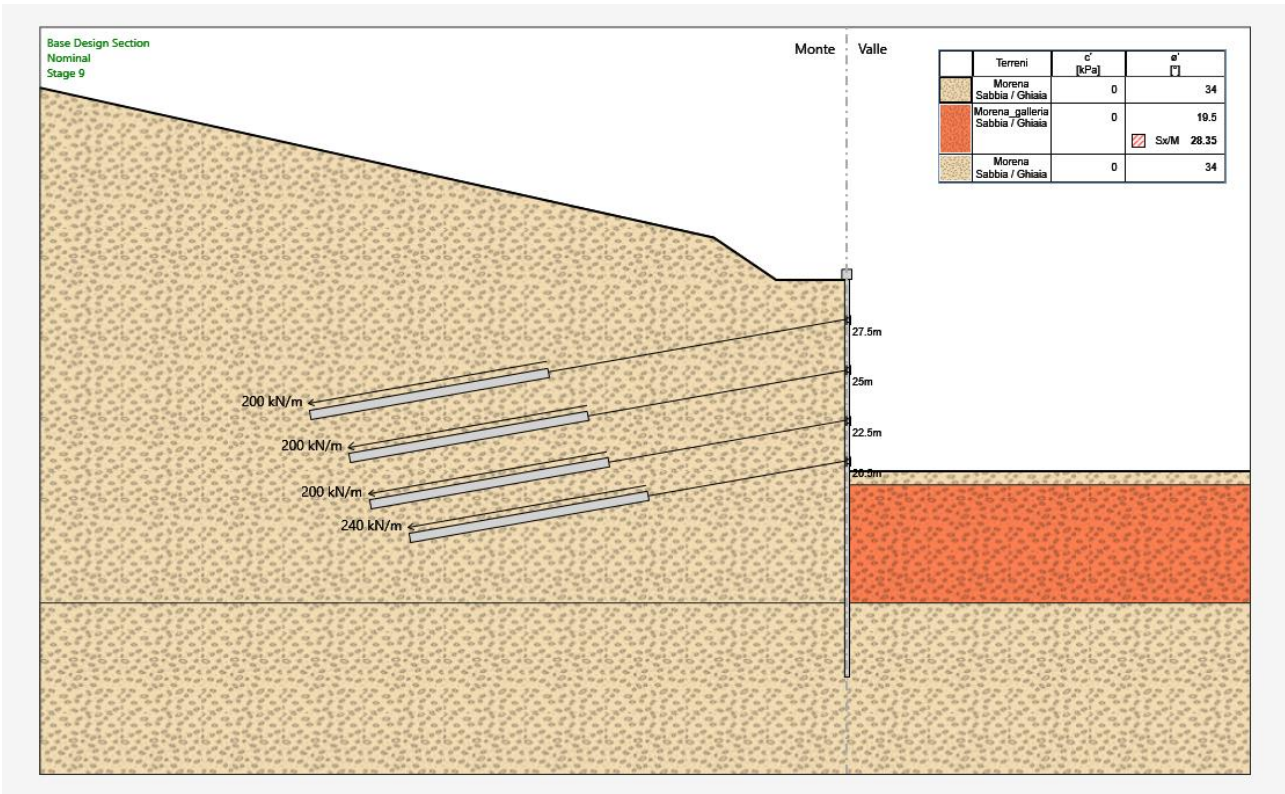
FASE 6: SCAVO FINO QUOTA -0.50 M DALLA 3° FILA DI TIRANTI



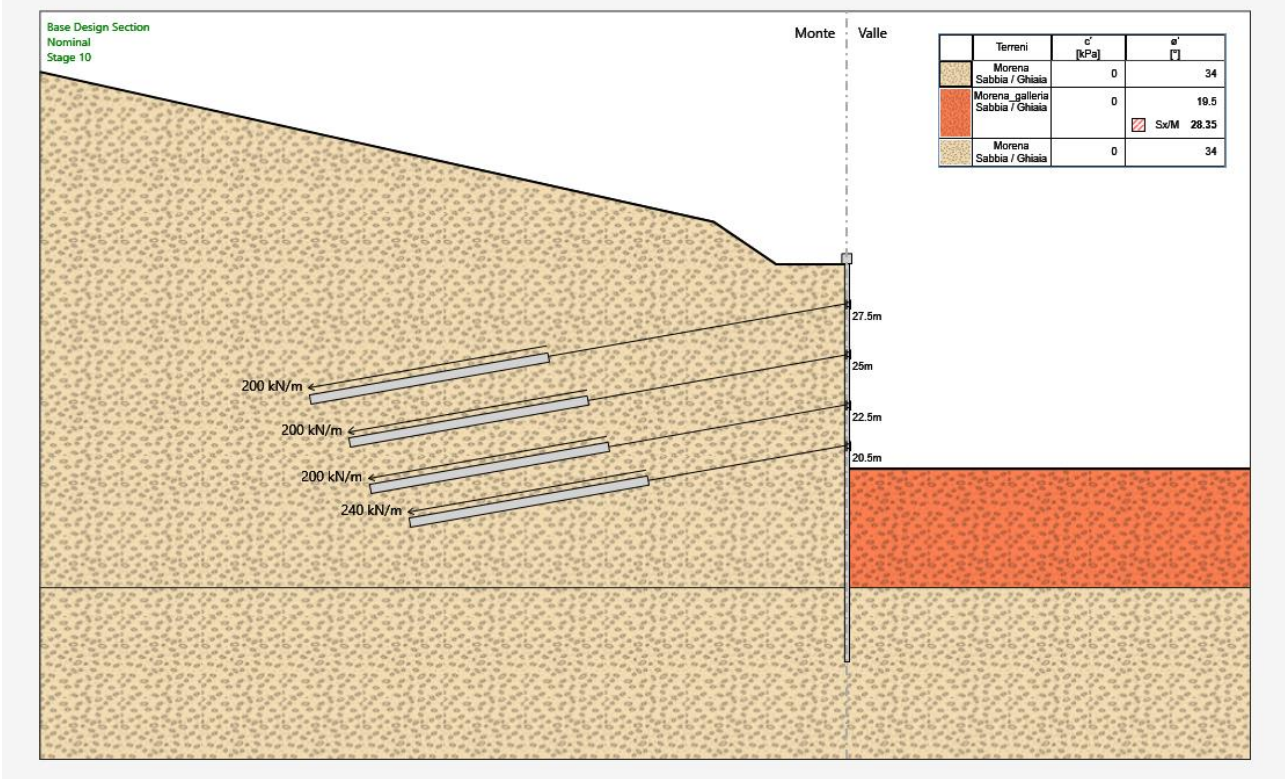
FASE 7: TESATURA DELLA 3° FILA DI TIRANTI



FASE 8: SCAVO FINO QUOTA -0.50 M DALLA 4° FILA DI TIRANTI



FASE 9: TESATURA DELLA 4° FILA DI TIRANTI

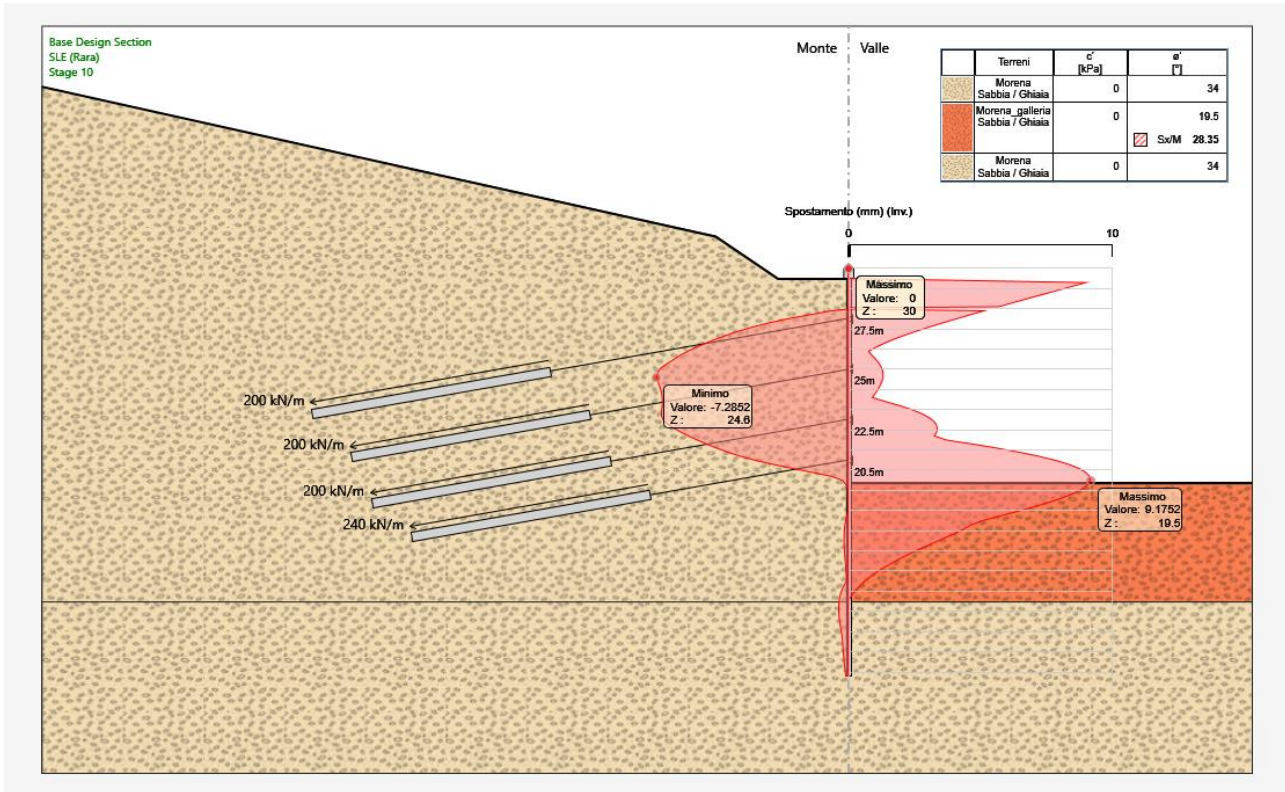


FASE 10: SCAVO FINO ALLA QUOTA DEFINITIVA

9.2 RISULTATI GRAFICI

9.2.1 Deformate

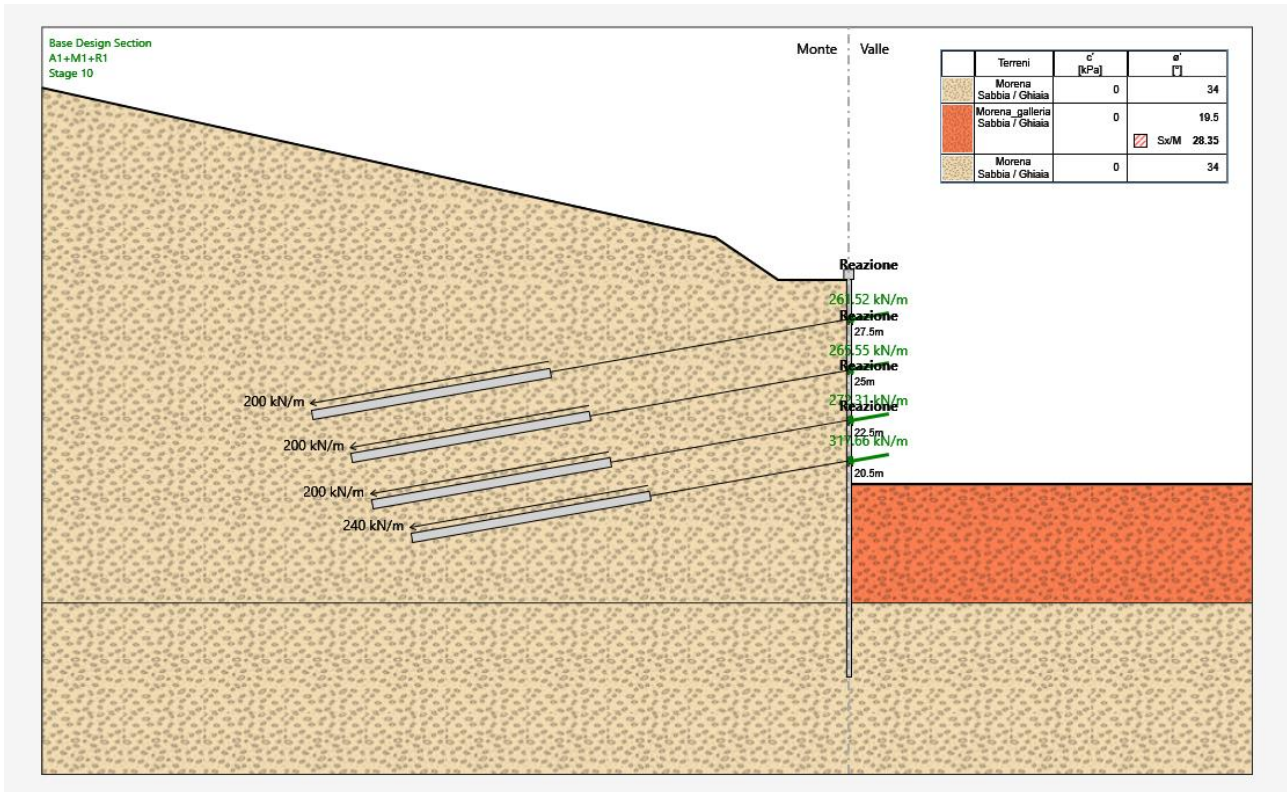
Le deformate, espresse in mm, sono visualizzate per l'involuppo di tutte le fasi della combinazione caratteristica (rara).



INVILUPPO FASI 1-10: COMBINAZIONE RARA - DEFORMATA

9.2.2 Reazioni (tiranti)

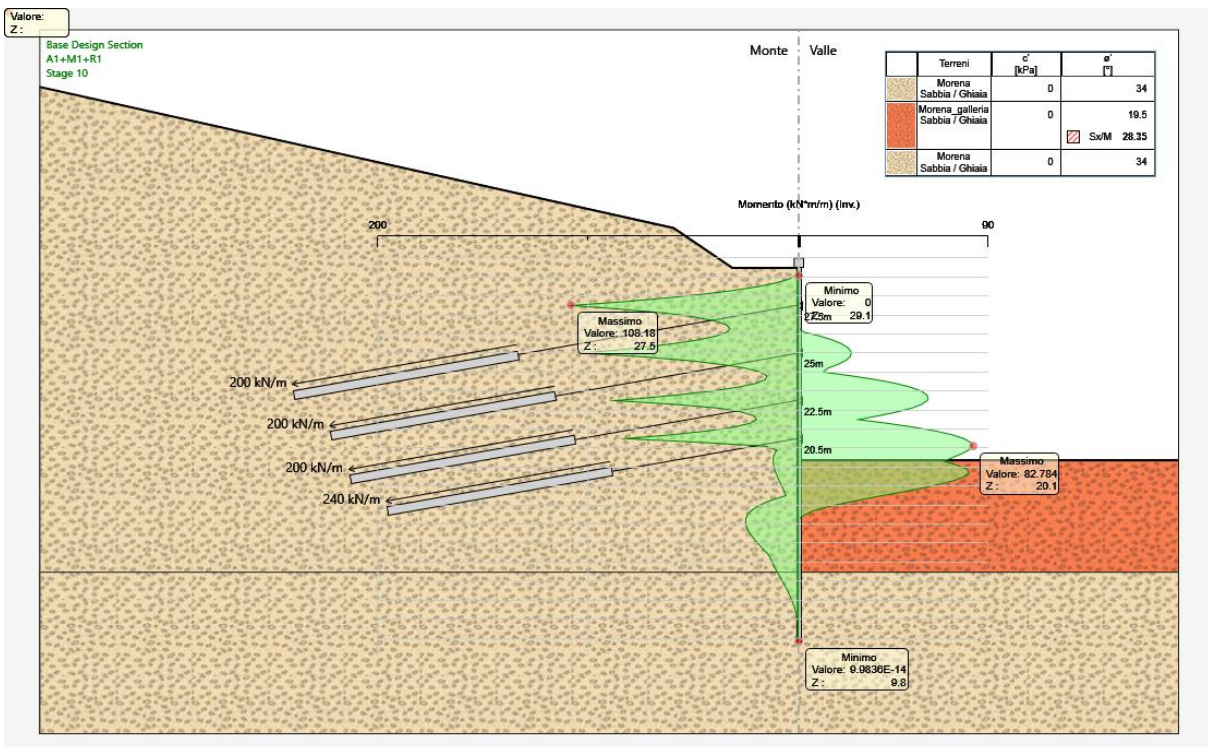
I valori delle reazioni ai tiranti sono espressi in kN/ml per gli involuppi delle combinazioni allo stato limite ultimo: STR: A1+M1+R1.



INVILUPPO FASI 1-10: COMBINAZIONE STR (A1+M1+R1) - REAZIONI TIRANTI

9.2.3 Momenti flettenti sui micropali

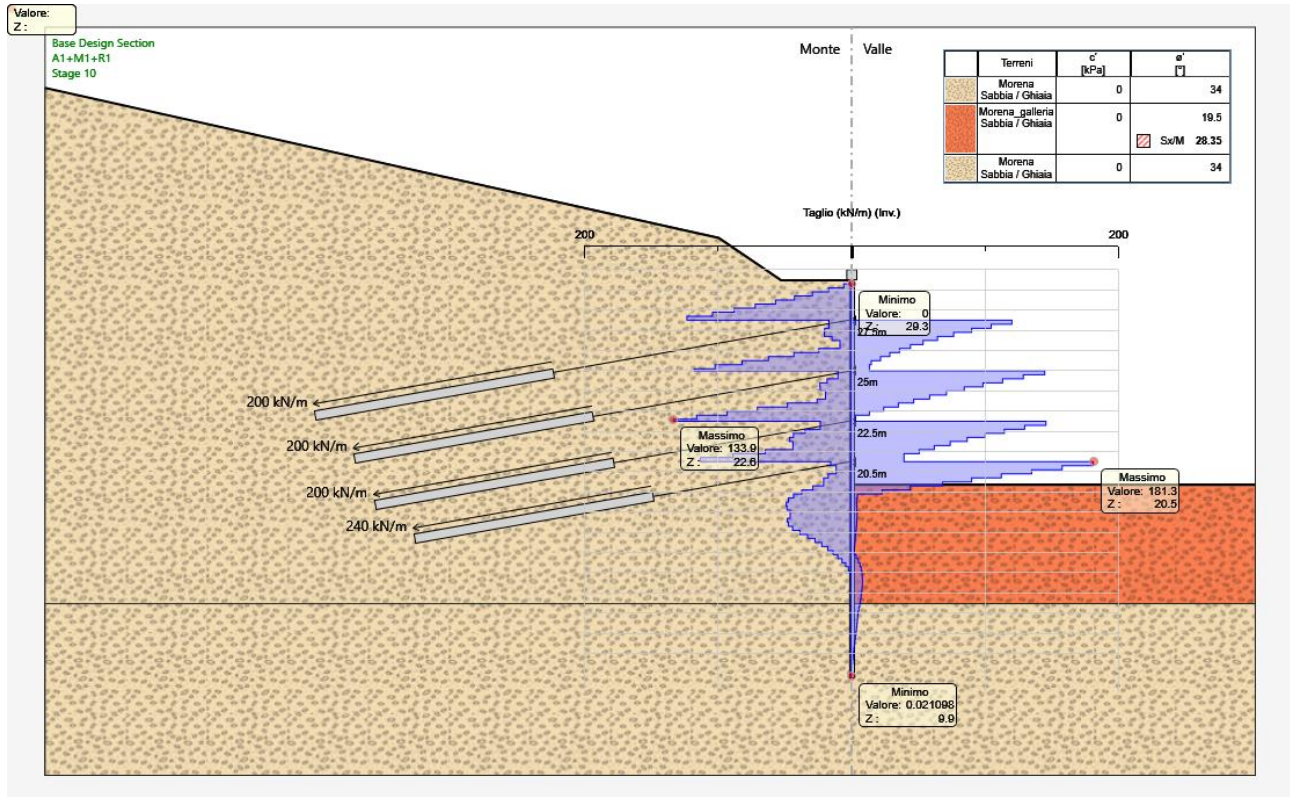
I momenti flettenti sulle strutture sono espressi in kNm/ml per gli involuppi delle combinazioni allo stato limite ultimo: STR: A1+M1+R1.



INVILUPPO FASI 1-10: COMBINAZIONE STR (A1+M1+R1) - MOMENTI FLETTENTI

9.2.4 Sforzi di taglio sui micropali

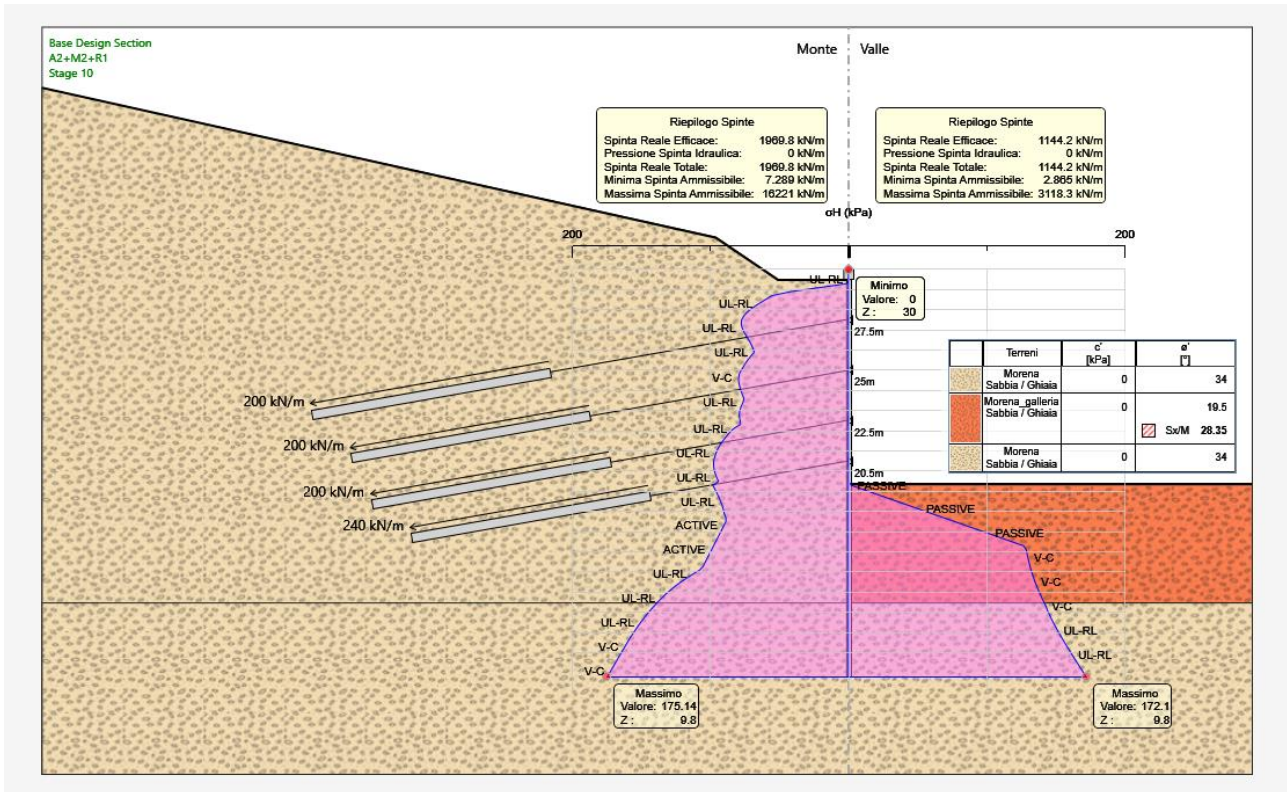
Gli sforzi taglianti sulle strutture sono espressi in kN/ml per gli involuipi delle combinazioni allo stato limite ultimo: STR: A1+M1+R1.



INVILUPPO FASI 1-10: COMBINAZIONE STR (A1+M1+R1) - SFORZI DI TAGLIO

9.2.5 Pressioni orizzontali terreno

Le pressioni sul terreno sono espresse in kN/m^2 per le combinazioni allo stato limite ultimo: GEO: A2+M2+R1.



FASE 10: COMBINAZIONE GEO (A2+M2+R1) - PRESSIONI ORIZZONTALI EFFICACI E RIASSUNTO SPINTE

9.3 VERIFICHE ALLO STATO LIMITE ULTIMO

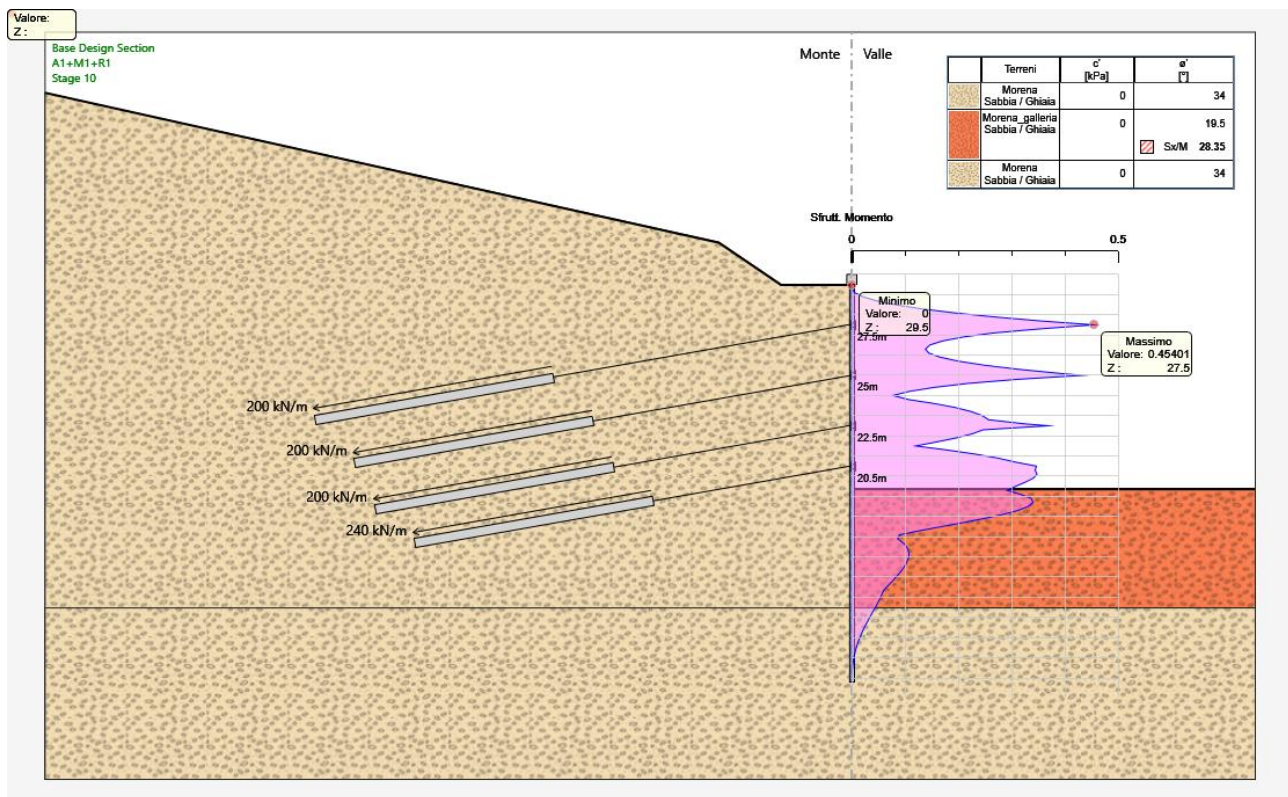
9.3.1 Verifiche strutturali micropali: Verifiche a flessione e taglio

Le verifiche sono svolte automaticamente dal programma di calcolo considerando le sollecitazioni statiche e sismiche derivate dalle combinazioni allo stato limite ultimo: STR: (A1+M1+R1).

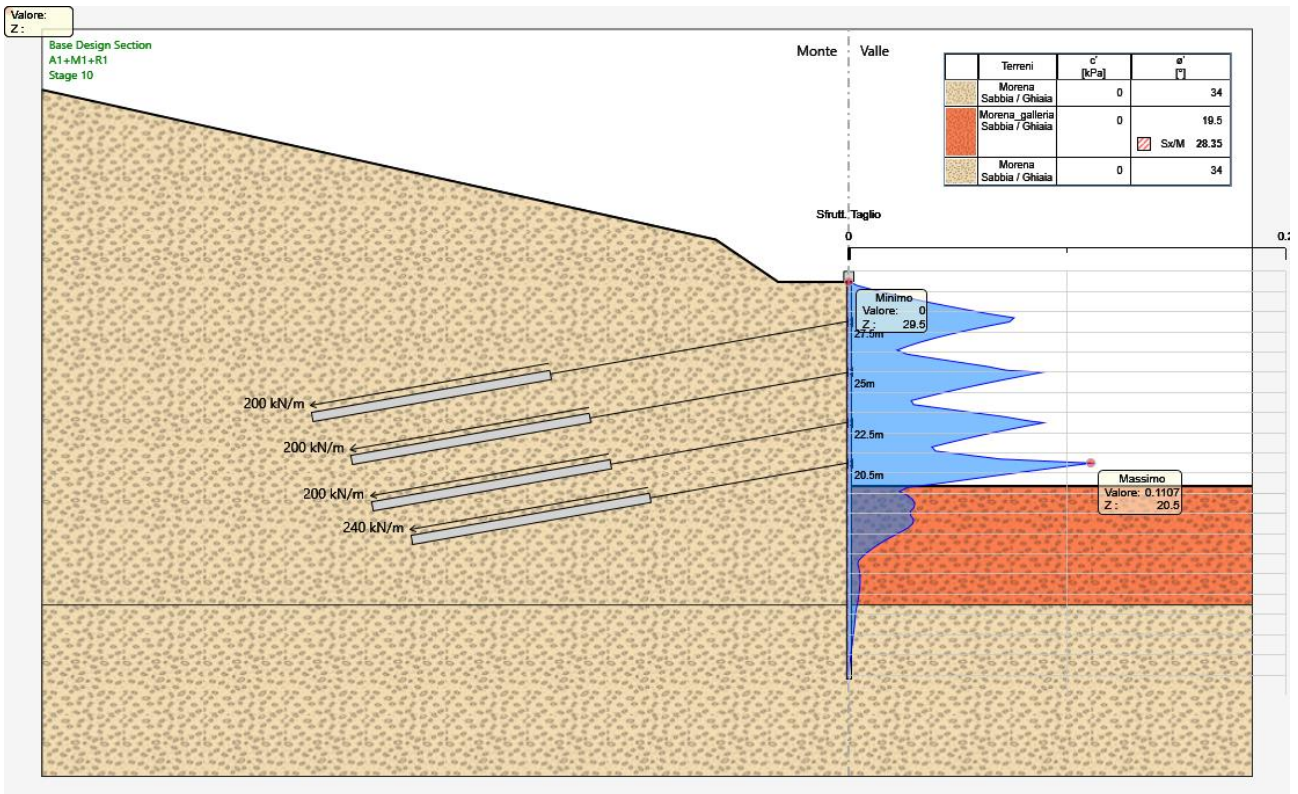
Seguono i diagrammi dei tassi di sfruttamento TS a flessione e a taglio della resistenza dei micropali metallici, per le combinazioni allo stato limite ultimo: STR: (A1+M1+R1).

Le verifiche sono soddisfatte se: $TS = \frac{\text{Sollecitazione}}{\text{Re resistenza}} \leq 1$

Lo sforzo assiale viene trascurato; nel calcolo del momento resistente $M_{c,Rd}$ non viene considerata l'interazione con la forza di taglio, in quanto in tutti i casi esaminati il taglio di calcolo associato al momento flettente è sempre inferiore a metà della resistenza di calcolo a taglio $V_{c,Rd}$.



TS FLESSIONE: COMB. SLU: STR (A1+M1+R1); INVILUPPO FASI 1÷10: $TS_{MAX} = 0.454 (<1)$



TS TAGLIO: COMB. SLU: STR (A1+M1+R1); INVILUPPO FASI 1÷10: $TS_{MAX} = 0.111 (<1)$

Verifica analitica: per la combinazione STR (A1+M1+R1) si è ottenuto per il singolo palo:

- . sforzo assiale: trascurabile
- momento flettente: $M_{Ed} = 108.18 \times 0.40 = 43.27 \text{ kNm}$
- sforzo di taglio: $V_{Ed} = 181.30 \times 0.40 = 72.52 \text{ kN}$

Segue tabulato della verifica analitica realizzata con apposito foglio di calcolo.

VERIFICA DI RESISTENZA SEZIONE TUBOLARE

Fattore parziale di resistenza delle sezioni:	$\gamma_{M0} =$	1.05
Tensione caratteristica di snervamento acciaio:		
spessore $t \leq 40$ mm:	$f_{yk} =$	355.00 N/mm²
spessore $40 \text{ mm} < t \leq 80$ mm:	$f_{yk} =$	335.00 N/mm²
Diametro esterno:	$d =$	177.8 mm
Spessore nominale:	$t =$	10.0 mm
Classificazione sezione:	Classe 1 (compatta)	
Massa:	$P =$	41.38 kg/m
Area sezione metallica:	$A =$	5272 mm ²
Area resistente a taglio:	$A_v =$	3356 mm ²
Momento d'inerzia elastico:	$J =$	18619818 mm ⁴
Raggio d'inerzia:	$i =$	59.4 mm
Modulo di resistenza elastico:	$W_e =$	209447 mm ³
Modulo di resistenza plastico:	$W_p =$	281893 mm ³
Resistenza di calcolo a compressione:	$N_{c,Rd} =$	1782.30 kN
Resistenza di calcolo a flessione:	$M_{c,Rd} =$	95.31 kN.m
Resistenza di calcolo a taglio:	$V_{c,Rd} =$	655.09 kN
Verifica di resistenza combinata assiale/flessione/taglio:		
Sforzo assiale di progetto:	$N_{Ed} =$	0 kN
Sforzo tagliante di progetto:	$V_{Ed} =$	72.52 kN
Momento flettente di progetto:	$M_{Ed} =$	43.27 kN.m
Tensione di snervamento ridotta per interazione tra flessione e taglio (se la sollecitazione di taglio supera il 50% della resistenza):	$f_{v,red} =$	355.00 N/mm ²
Verifica combinata assiale/flessione: $N_{Ed} / N_{c,Rd} + M_{Ed} / M_{c,Rd} \leq 1$:	0.454	(≤ 1 : VERIFICATO)

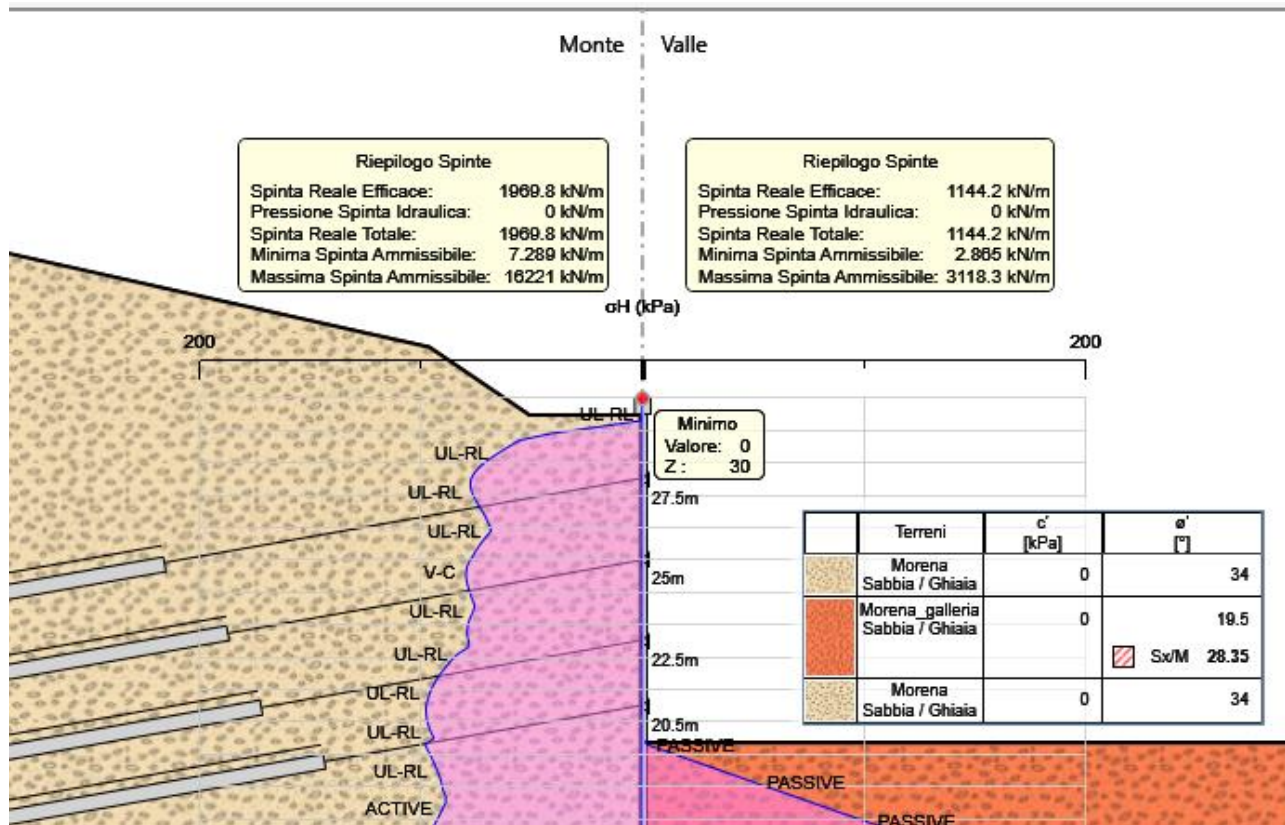
9.3.2 Verifiche geotecniche: Verifica di stabilità del fondo scavo

La verifica di stabilità del lato a valle della paratia è effettuata considerando il rispetto dei due seguenti criteri:

- 1) Il calcolo non lineare della paratia deve convergere a una soluzione equilibrata e congruente;
- 2) Sul lato di scavo (valle) la spinta efficace mobilitata deve essere minore della spinta passiva disponibile, quindi il loro rapporto deve essere < 1 .

Dall'esame dei tabulati di calcolo, in particolare quello relativo a GEO (A2+M2+R1), combinazione sismica più gravosa (ved. p. 9.2.5), si desume:

- 1) Il calcolo non lineare converge a una soluzione equilibrata per tutte le fasi di calcolo.
- 2) Il rapporto tra la spinta mobilitata e la spinta passiva possibile assume il massimo nella fase 10 con il valore (vedi figura seguente):



$$\frac{\text{Spinta Reale Totale}}{\text{Massima Spinta Ammissibile}} = \frac{1144.2}{3118.3} = 0.367 \quad (< 1: \text{verificato})$$

9.3.3 Tiranti attivi : Verifica strutturale e allo sfilamento dell'ancoraggio

La verifica viene svolta considerando uno stato limite GEO di tipo A1+M1+R3.

La resistenza del bulbo di ancoraggio dei tiranti attivi viene calcolata con il metodo di Bustamante-Doix (Rif. Bustamante M., Doix B. (1985): "Une méthode pour le calcul des tirants et des micropieux injectés", Bull. Liaison Lab. Ponts et Chaussées, n. 140, pagg. 75-95).

Si verifica inoltre, nell'ottica della gerarchia delle resistenze, che la resistenza caratteristica allo snervamento del tirante sia maggiore della resistenza a sfilamento di progetto dell'ancoraggio (p. 6.6.2. NTC 2018).

Dati geometrici:

- lunghezza bulbo di ancoraggio: $L = 12 \text{ m}$
- diametro perforazione: $\varnothing = 160 \text{ mm}$
- sollecitazione massima (Tirante C1, Fase 8): $N_{Ed} = 272.31 \times 2.40 = 654 \text{ kN}$
- resistenza assiale tirante (4x0.6"): $R_k = 4 \times 139 \times 1670/10^3 = 928 \text{ kN}$

Per: - tipo di terreno: sabbioso/ghiaioso
 - tipo di iniezione: ripetute e selettive ad alta pressione (IRS)

si ha (Bustamante-Doix):

- resistenza unitaria limite: $q_s = 179 \text{ kN/m}^2$
- fattore di incremento del diametro: $\alpha = 1.4$
- coefficiente parziale resistenza caratteristica (tiranti provvisori): $\gamma_{Ra,t} = 1.1$
- fattore di correlazione (1 sondaggio): $\xi_{a3} = 1.8$

Si determina quindi per il bulbo di ancoraggio:

- resistenza limite: $R_{lim} = \alpha \pi \varnothing \sum(L q_s) = 1.4 \times \pi \times 0.16 \times 12 \times 179 = 1512 \text{ kN}$
- resistenza caratteristica: $R_{ck} = \frac{R_{lim}}{\xi_{a3}} = \frac{1512}{1.8} = 840 \text{ kN}$
- resistenza di progetto: $R_{cd} = \frac{R_{ck}}{\gamma_{Ra,t}} = \frac{840}{1.1} = 763 \text{ kN}$

Verifica di resistenza del tirante: $R_k > N_{Ed} : 928 \text{ kN} > 654 \text{ kN}$: Verificato.

Verifica di resistenza dell'ancoraggio: $R_{cd} > N_{Ed} : 763 \text{ kN} > 654 \text{ kN}$: Verificato.

Verifica della gerarchia delle resistenze: $R_k > R_{cd} : 928 \text{ kN} > 763 \text{ kN}$: Verificato.

9.3.4 Travi di ripartizione - Verifica strutturale a flessione e taglio

Si assumono valide le verifiche svolte al punto 8.3.4.

9.3.5 Cordolo di testa - Verifica strutturale a flessione e taglio

Si omettono le verifiche del cordolo che non è direttamente sollecitato; si dispone comunque una armatura adeguata.

9.3.6 Verifica di stabilità globale dell'insieme terreno-struttura

La verifica di stabilità globale del pendio viene svolta facendo riferimento alla sezione più gravosa nella fase finale (10); si considera la Combinazione 2: GEO (A2+M2+R2).

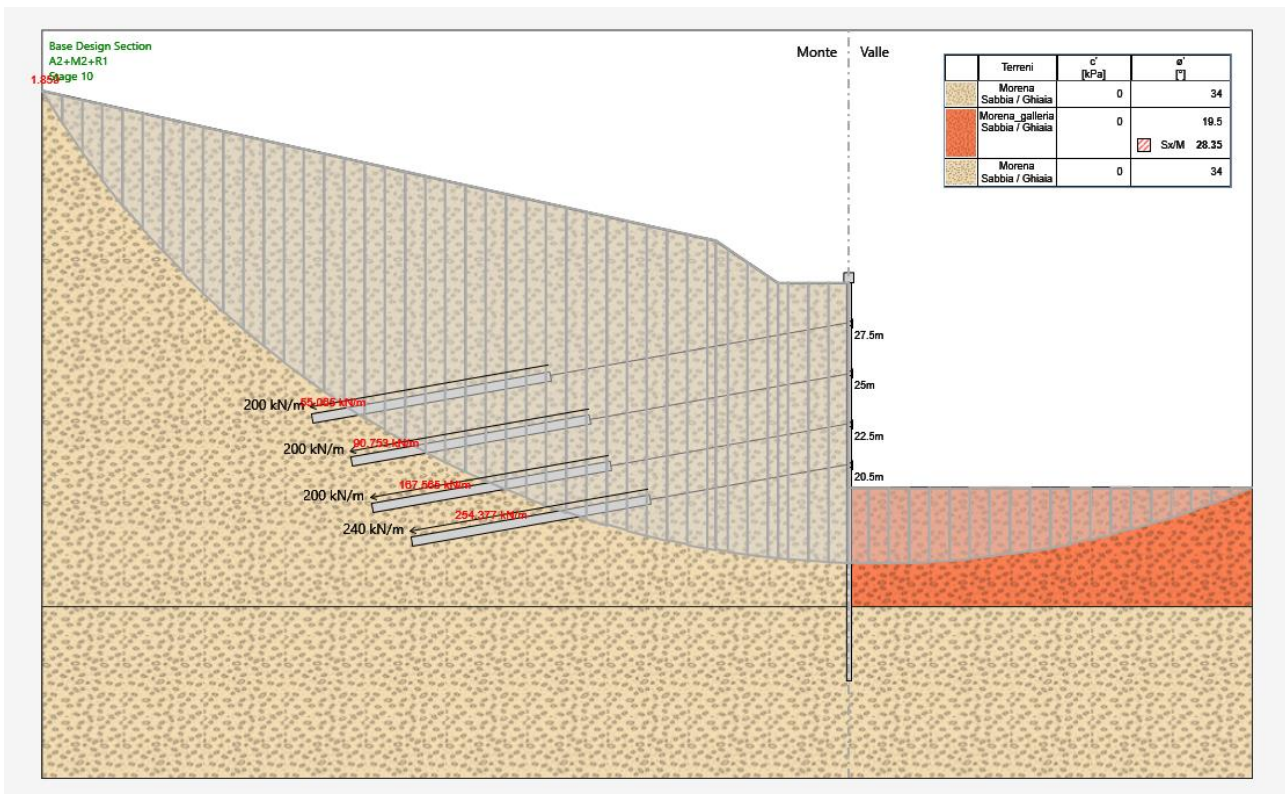
L'analisi viene svolta utilizzando il programma Paratie Plus della Ceas di Milano.

Nella fattispecie è stato utilizzato il metodo di Bishop semplificato con una generazione semi-automatica di superfici di scorrimento circolari..

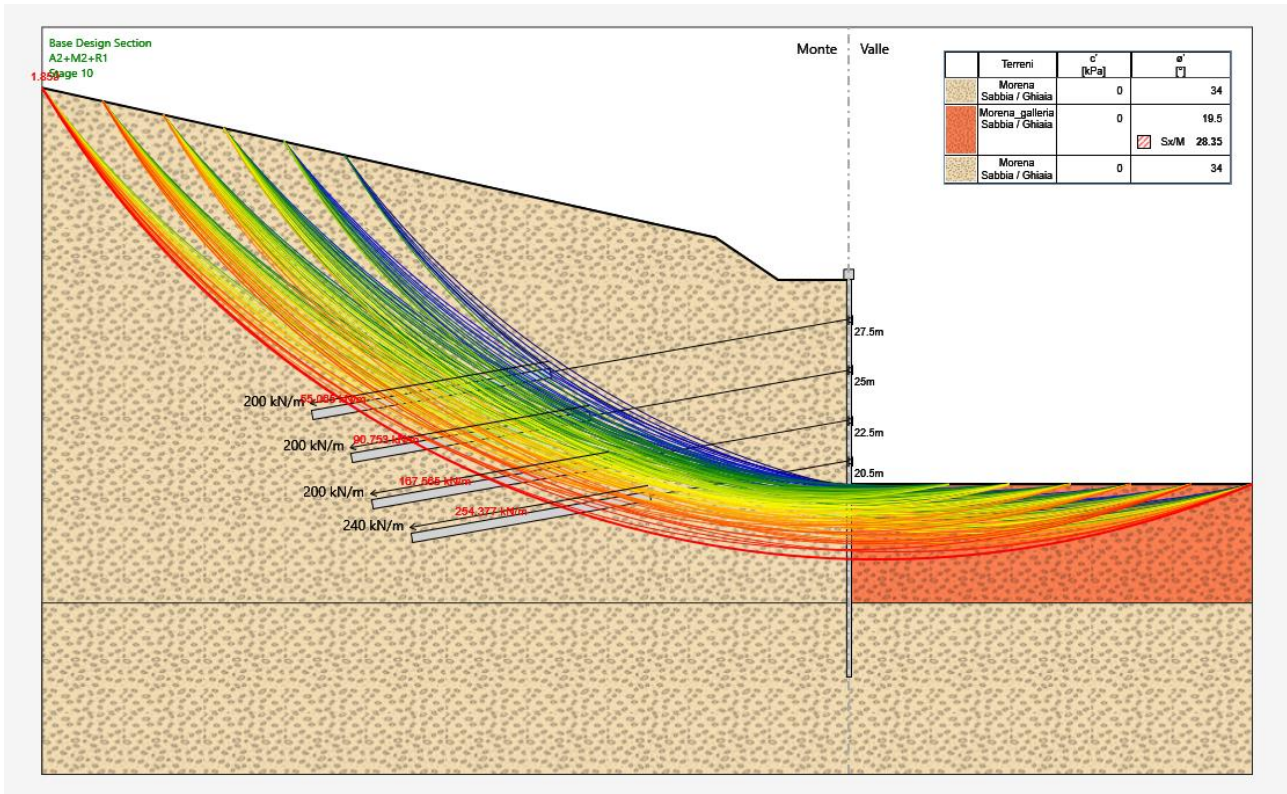
A favore della sicurezza si trascura nel calcolo il contributo della paratia.

Seguono gli schemi grafici del calcolo svolto; il coefficiente di sicurezza minimo risulta:

$$FS_{\min} = 1.856 \quad (FS_{\min} > 1.1: \text{Verificato})$$



VERIFICA DI STABILITÀ GLOBALE - SUPERFICIE CRITICA



VERIFICA DI STABILITÀ GLOBALE - TUTTE LE SUPERFICI GENERATE.

10 TABULATI ALLEGATI

10.1 PARATIA CON 6 ORDINI DI TIRANTI

PARATIE plus™

Report di Calcolo

Nome Progetto: GALLERIA IL DOSSO 1 - PARATIA IMBOCCO LATO SONDRIO

Autore: Ing. Renato Vaira

Jobname: D:\Documenti_Lavori\A832 - Tirano\Paratia Imbocco Sondrio\Spigolo 6 tiranti.pplus

Data: 31/01/2019 17:40:06

Design Section: Base Design Section

Descrizione della Stratigrafia e degli Strati di Terreno

Tipo : HORIZONTAL

Quota : 60 m

OCR : 1

Strato di Terreno	Terreno	γ dry	γ sat	ϕ'	ϕ	c	Su	Modulo	Elastico	Eu	Evc	Eur	Ah	Av	exp Pa	Rur/Rvc	Rvc	Ku	Kvc	Kur	
		kN/m ³	kN/m ³	°	°	°	kPa	kPa			kPa	kPa			kPa	kPa	kPa	kN/m ³	kN/m ³	kN/m ³	
1	Morena	20	21	34		0		Constant			21000	33600									

Descrizione Pareti

X : 0 m

Quota in alto : 40.02 m

Quota di fondo : 16.32 m

Muro di sinistra

Sezione : Berlinese

Area equivalente : 0.0272491018831865 m

Inerzia equivalente : 0.0001 m⁴/m

Materiale calcestruzzo : C32/40

Tipo sezione : Tangent

Spaziatura : 0.4 m

Diametro : 0.24 m

Efficacia : 0.9

Materiale acciaio : S355

Sezione : CHS177.8*10

Tipo sezione : O

Spaziatura : 0.4 m

Spessore : 0.01 m

Diametro : 0.1778 m

X : 0 m

Quota in alto : 40.52 m

Quota di fondo : 40.02 m

Muro di sinistra

Sezione : Berlinese

Area equivalente : 0.0272491018831865 m

Inerzia equivalente : 0.0001 m⁴/m

Materiale calcestruzzo : C32/40

Tipo sezione : Tangent

Spaziatura : 0.4 m

Diametro : 0.24 m

Efficacia : 0.9

Materiale acciaio : S355

Sezione : CHS177.8*10

Tipo sezione : O

Spaziatura : 0.4 m

Spessore : 0.01 m

Diametro : 0.1778 m

Sezione : Strut Section 2

Area equivalente : 0.5 m

Inerzia equivalente : 0.0104 m⁴/m

Materiale calcestruzzo : C25/30

Tipo sezione : Solid

Spessore : 0.5 m

Efficacia : 1

Fasi di Calcolo

Stage 1

Scavo

Muro di sinistra

Lato monte : 40.02 m

Lato valle : 40.02 m

Linea di scavo di sinistra (Irregolare)

(-40;51.1132075471698)

(-34.1;50)

(-25.3;48)

(-20.9;46.8)

(-10.5;44.69)

(-3.5;40.02)

(0;40.02)

Linea di scavo di destra (Irregolare)

(0;40.02)

(19.5;35.7)

(20;35.6285714285714)

Elementi strutturali

Paratia : Berlinese

X : 0 m

Quota in alto : 40.02 m

Quota di fondo : 16.32 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 40.52 m

Quota di fondo : 40.02 m

Sezione : Strut Section 2

Stage 2

Scavo

Muro di sinistra

Lato monte : 40.02 m

Lato valle : 37.37 m

Linea di scavo di sinistra (Irregolare)

(-40;51.1132075471698)

(-34.1;50)

(-25.3;48)

(-20.9;46.8)

(-10.5;44.69)

(-3.5;40.02)

(0;40.02)

Linea di scavo di destra (Irregolare)

(0;37.37)

(12;37.37)

(20;35.96111111111111)

Elementi strutturali

Paratia : Berlinese

X : 0 m

Quota in alto : 40.02 m

Quota di fondo : 16.32 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 40.52 m

Quota di fondo : 40.02 m

Sezione : Strut Section 2

Stage 3

Scavo

Muro di sinistra

Lato monte : 40.02 m

Lato valle : 37.37 m

Linea di scavo di sinistra (Irregolare)

(-40;51.1132075471698)

(-34.1;50)

(-25.3;48)

(-20.9;46.8)

(-10.5;44.69)

(-3.5;40.02)

(0;40.02)

Linea di scavo di destra (Irregolare)

(0;37.37)

(12;37.37)

(20;35.96111111111111)

Elementi strutturali

Tirante : Tir-A1

X : 0 m

Z : 37.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 19 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 40.02 m

Quota di fondo : 16.32 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 40.52 m

Quota di fondo : 40.02 m

Sezione : Strut Section 2

Stage 4

Scavo

Muro di sinistra

Lato monte : 40.02 m

Lato valle : 34.87 m

Linea di scavo di sinistra (Irregolare)

(-40;51.1132075471698)

(-34.1;50)

(-25.3;48)

(-20.9;46.8)

(-10.5;44.69)

(-3.5;40.02)

(0;40.02)

Linea di scavo di destra (Orizzontale)

34.87 m

Elementi strutturali

Tirante : Tir-A1

X : 0 m

Z : 37.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 19 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 40.02 m

Quota di fondo : 16.32 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 40.52 m

Quota di fondo : 40.02 m

Sezione : Strut Section 2

Stage 5

Scavo

Muro di sinistra

Lato monte : 40.02 m

Lato valle : 34.87 m

Linea di scavo di sinistra (Irregolare)

(-40;51.1132075471698)

(-34.1;50)

(-25.3;48)

(-20.9;46.8)

(-10.5;44.69)

(-3.5;40.02)

(0;40.02)

Linea di scavo di destra (Orizzontale)

34.87 m

Elementi strutturali

Tirante : Tir-A1

X : 0 m

Z : 37.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 19 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B1

X : 0 m

Z : 35.37 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 18 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 40.02 m

Quota di fondo : 16.32 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 40.52 m

Quota di fondo : 40.02 m

Sezione : Strut Section 2

Stage 6

Scavo

Muro di sinistra

Lato monte : 40.02 m

Lato valle : 32.37 m

Linea di scavo di sinistra (Irregolare)

(-40;51.1132075471698)

(-34.1;50)

(-25.3;48)

(-20.9;46.8)

(-10.5;44.69)

(-3.5;40.02)

(0;40.02)

Linea di scavo di destra (Orizzontale)

32.37 m

Elementi strutturali

Tirante : Tir-A1

X : 0 m

Z : 37.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 19 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B1

X : 0 m

Z : 35.37 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 18 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 40.02 m

Quota di fondo : 16.32 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 40.52 m

Quota di fondo : 40.02 m

Sezione : Strut Section 2

Stage 7

Scavo

Muro di sinistra

Lato monte : 40.02 m

Lato valle : 32.37 m

Linea di scavo di sinistra (Irregolare)

(-40;51.1132075471698)

(-34.1;50)

(-25.3;48)

(-20.9;46.8)

(-10.5;44.69)

(-3.5;40.02)

(0;40.02)

Linea di scavo di destra (Orizzontale)

32.37 m

Elementi strutturali

Tirante : Tir-A1

X : 0 m

Z : 37.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 19 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B1

X : 0 m

Z : 35.37 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 18 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-C1

X : 0 m

Z : 32.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 16 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 40.02 m

Quota di fondo : 16.32 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 40.52 m

Quota di fondo : 40.02 m

Sezione : Strut Section 2

Stage 8

Scavo

Muro di sinistra

Lato monte : 40.02 m

Lato valle : 29.87 m

Linea di scavo di sinistra (Irregolare)

(-40;51.1132075471698)

(-34.1;50)

(-25.3;48)

(-20.9;46.8)

(-10.5;44.69)

(-3.5;40.02)

(0;40.02)

Linea di scavo di destra (Orizzontale)

29.87 m

Elementi strutturali

Tirante : Tir-A1

X : 0 m

Z : 37.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 19 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B1

X : 0 m

Z : 35.37 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 18 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-C1

X : 0 m

Z : 32.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 16 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 40.02 m

Quota di fondo : 16.32 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 40.52 m

Quota di fondo : 40.02 m

Sezione : Strut Section 2

Stage 9

Scavo

Muro di sinistra

Lato monte : 40.02 m

Lato valle : 29.87 m

Linea di scavo di sinistra (Irregolare)

(-40;51.1132075471698)

(-34.1;50)

(-25.3;48)

(-20.9;46.8)

(-10.5;44.69)

(-3.5;40.02)

(0;40.02)

Linea di scavo di destra (Orizzontale)

29.87 m

Elementi strutturali

Tirante : Tir-A1

X : 0 m

Z : 37.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 19 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B1

X : 0 m

Z : 35.37 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 18 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler
 Sezione : Waler Section 2 steel
 HE 220A
 Materiale : S275

Tirante : Tir-C1
 X : 0 m
 Z : 32.87 m
 Lunghezza bulbo : 12 m
 Diametro bulbo : 0.16 m
 Lunghezza libera : 16 m
 Spaziatura orizzontale : 2.4 m
 Precarico : 480 kN
 Angolo : 10 °
 Sezione : 4 strands
 Tipo di barre : Barre trefoli
 Numero di barre : 4
 Diametro : 0.01331 m
 Area : 0.000556 m²

Trave di Ripartizione : Default Waler
 Sezione : Waler Section 2 steel
 HE 220A
 Materiale : S275

Paratia : Berlinese
 X : 0 m
 Quota in alto : 40.02 m
 Quota di fondo : 16.32 m
 Sezione : Berlinese

Tirante : Tir-D1
 X : 0 m
 Z : 30.37 m
 Lunghezza bulbo : 12 m
 Diametro bulbo : 0.16 m
 Lunghezza libera : 15 m
 Spaziatura orizzontale : 2.4 m
 Precarico : 480 kN
 Angolo : 10 °
 Sezione : 4 strands
 Tipo di barre : Barre trefoli
 Numero di barre : 4
 Diametro : 0.01331 m
 Area : 0.000556 m²

Trave di Ripartizione : Default Waler
 Sezione : Waler Section 2 steel
 HE 220A
 Materiale : S275

Paratia : Cordolo
 X : 0 m
 Quota in alto : 40.52 m
 Quota di fondo : 40.02 m
 Sezione : Strut Section 2

Stage 10

Scavo

Muro di sinistra

Lato monte : 40.02 m

Lato valle : 27.37 m

Linea di scavo di sinistra (Irregolare)

(-40;51.1132075471698)

(-34.1;50)

(-25.3;48)

(-20.9;46.8)

(-10.5;44.69)

(-3.5;40.02)

(0;40.02)

Linea di scavo di destra (Orizzontale)

27.37 m

Elementi strutturali

Tirante : Tir-A1

X : 0 m

Z : 37.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 19 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B1

X : 0 m

Z : 35.37 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 18 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler
 Sezione : Waler Section 2 steel
 HE 220A
 Materiale : S275

Tirante : Tir-C1
 X : 0 m
 Z : 32.87 m
 Lunghezza bulbo : 12 m
 Diametro bulbo : 0.16 m
 Lunghezza libera : 16 m
 Spaziatura orizzontale : 2.4 m
 Precarico : 480 kN
 Angolo : 10 °
 Sezione : 4 strands
 Tipo di barre : Barre trefoli
 Numero di barre : 4
 Diametro : 0.01331 m
 Area : 0.000556 m²

Trave di Ripartizione : Default Waler
 Sezione : Waler Section 2 steel
 HE 220A
 Materiale : S275

Paratia : Berlinese
 X : 0 m
 Quota in alto : 40.02 m
 Quota di fondo : 16.32 m
 Sezione : Berlinese

Tirante : Tir-D1
 X : 0 m
 Z : 30.37 m
 Lunghezza bulbo : 12 m
 Diametro bulbo : 0.16 m
 Lunghezza libera : 15 m
 Spaziatura orizzontale : 2.4 m
 Precarico : 480 kN
 Angolo : 10 °
 Sezione : 4 strands
 Tipo di barre : Barre trefoli
 Numero di barre : 4
 Diametro : 0.01331 m
 Area : 0.000556 m²

Trave di Ripartizione : Default Waler
 Sezione : Waler Section 2 steel
 HE 220A
 Materiale : S275

Paratia : Cordolo
 X : 0 m
 Quota in alto : 40.52 m
 Quota di fondo : 40.02 m
 Sezione : Strut Section 2

Stage 11

Scavo

Muro di sinistra

Lato monte : 40.02 m

Lato valle : 27.37 m

Linea di scavo di sinistra (Irregolare)

(-40;51.1132075471698)

(-34.1;50)

(-25.3;48)

(-20.9;46.8)

(-10.5;44.69)

(-3.5;40.02)

(0;40.02)

Linea di scavo di destra (Orizzontale)

27.37 m

Elementi strutturali

Tirante : Tir-A1

X : 0 m

Z : 37.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 19 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B1

X : 0 m

Z : 35.37 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 18 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-C1

X : 0 m

Z : 32.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 16 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 40.02 m

Quota di fondo : 16.32 m

Sezione : Berlinese

Tirante : Tir-D1

X : 0 m

Z : 30.37 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 15 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-E1

X : 0 m

Z : 27.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 13 m

Spaziatura orizzontale : 2 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Cordolo

X : 0 m

Quota in alto : 40.52 m

Quota di fondo : 40.02 m

Sezione : Strut Section 2

Stage 12

Scavo

Muro di sinistra

Lato monte : 40.02 m

Lato valle : 24.87 m

Linea di scavo di sinistra (Irregolare)

(-40;51.1132075471698)

(-34.1;50)

(-25.3;48)

(-20.9;46.8)

(-10.5;44.69)

(-3.5;40.02)

(0;40.02)

Linea di scavo di destra (Orizzontale)

24.87 m

Elementi strutturali

Tirante : Tir-A1

X : 0 m

Z : 37.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 19 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B1

X : 0 m

Z : 35.37 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 18 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-C1

X : 0 m

Z : 32.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 16 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 40.02 m

Quota di fondo : 16.32 m

Sezione : Berlinese

Tirante : Tir-D1

X : 0 m

Z : 30.37 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 15 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-E1

X : 0 m

Z : 27.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 13 m

Spaziatura orizzontale : 2 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Cordolo

X : 0 m

Quota in alto : 40.52 m

Quota di fondo : 40.02 m

Sezione : Strut Section 2

Stage 13

Scavo

Muro di sinistra

Lato monte : 40.02 m

Lato valle : 24.87 m

Linea di scavo di sinistra (Irregolare)

(-40;51.1132075471698)

(-34.1;50)

(-25.3;48)

(-20.9;46.8)

(-10.5;44.69)

(-3.5;40.02)

(0;40.02)

Linea di scavo di destra (Orizzontale)

24.87 m

Elementi strutturali

Tirante : Tir-A1

X : 0 m

Z : 37.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 19 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B1

X : 0 m

Z : 35.37 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 18 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler
 Sezione : Waler Section 2 steel
 HE 220A
 Materiale : S275

Tirante : Tir-C1
 X : 0 m
 Z : 32.87 m
 Lunghezza bulbo : 12 m
 Diametro bulbo : 0.16 m
 Lunghezza libera : 16 m
 Spaziatura orizzontale : 2.4 m
 Precarico : 480 kN
 Angolo : 10 °
 Sezione : 4 strands
 Tipo di barre : Barre trefoli
 Numero di barre : 4
 Diametro : 0.01331 m
 Area : 0.000556 m²

Trave di Ripartizione : Default Waler
 Sezione : Waler Section 2 steel
 HE 220A
 Materiale : S275

Paratia : Berlinese
 X : 0 m
 Quota in alto : 40.02 m
 Quota di fondo : 16.32 m
 Sezione : Berlinese

Tirante : Tir-D1
 X : 0 m
 Z : 30.37 m
 Lunghezza bulbo : 12 m
 Diametro bulbo : 0.16 m
 Lunghezza libera : 15 m
 Spaziatura orizzontale : 2.4 m
 Precarico : 480 kN
 Angolo : 10 °
 Sezione : 4 strands
 Tipo di barre : Barre trefoli
 Numero di barre : 4
 Diametro : 0.01331 m
 Area : 0.000556 m²

Trave di Ripartizione : Default Waler
 Sezione : Waler Section 2 steel
 HE 220A
 Materiale : S275

Tirante : Tir-E1
 X : 0 m
 Z : 27.87 m
 Lunghezza bulbo : 12 m
 Diametro bulbo : 0.16 m
 Lunghezza libera : 13 m

Spaziatura orizzontale : 2 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-F1

X : 0 m

Z : 25.37 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 12 m

Spaziatura orizzontale : 2 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Cordolo

X : 0 m

Quota in alto : 40.52 m

Quota di fondo : 40.02 m

Sezione : Strut Section 2

Stage 14

Scavo

Muro di sinistra

Lato monte : 40.02 m

Lato valle : 23.7 m

Linea di scavo di sinistra (Irregolare)

(-40;51.1132075471698)

(-34.1;50)

(-25.3;48)

(-20.9;46.8)

(-10.5;44.69)

(-3.5;40.02)

(0;40.02)

Linea di scavo di destra (Orizzontale)

23.7 m

Elementi strutturali

Tirante : Tir-A1

X : 0 m

Z : 37.87 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 19 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B1

X : 0 m

Z : 35.37 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 18 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler
 Sezione : Waler Section 2 steel
 HE 220A
 Materiale : S275

Tirante : Tir-C1
 X : 0 m
 Z : 32.87 m
 Lunghezza bulbo : 12 m
 Diametro bulbo : 0.16 m
 Lunghezza libera : 16 m
 Spaziatura orizzontale : 2.4 m
 Precarico : 480 kN
 Angolo : 10 °
 Sezione : 4 strands
 Tipo di barre : Barre trefoli
 Numero di barre : 4
 Diametro : 0.01331 m
 Area : 0.000556 m²

Trave di Ripartizione : Default Waler
 Sezione : Waler Section 2 steel
 HE 220A
 Materiale : S275

Paratia : Berlinese
 X : 0 m
 Quota in alto : 40.02 m
 Quota di fondo : 16.32 m
 Sezione : Berlinese

Tirante : Tir-D1
 X : 0 m
 Z : 30.37 m
 Lunghezza bulbo : 12 m
 Diametro bulbo : 0.16 m
 Lunghezza libera : 15 m
 Spaziatura orizzontale : 2.4 m
 Precarico : 480 kN
 Angolo : 10 °
 Sezione : 4 strands
 Tipo di barre : Barre trefoli
 Numero di barre : 4
 Diametro : 0.01331 m
 Area : 0.000556 m²

Trave di Ripartizione : Default Waler
 Sezione : Waler Section 2 steel
 HE 220A
 Materiale : S275

Tirante : Tir-E1
 X : 0 m
 Z : 27.87 m
 Lunghezza bulbo : 12 m
 Diametro bulbo : 0.16 m
 Lunghezza libera : 13 m

Spaziatura orizzontale : 2 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-F1

X : 0 m

Z : 25.37 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 12 m

Spaziatura orizzontale : 2 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Cordolo

X : 0 m

Quota in alto : 40.52 m

Quota di fondo : 40.02 m

Sezione : Strut Section 2

Descrizione Coefficienti Design Assumption

Coefficienti A

Nome	Carichi Permanenti Sfavorevoli (F_dead_load_unfavour)	Carichi Permanenti Favorevoli (F_dead_load_favour)	Carichi Variabili Sfavorevoli (F_live_load_unfavour)	Carichi Variabili Favorevoli (F_live_load_favour)	Carico Sismico (F_seism_load)	Pressioni Acqua Monte (F_WaterDR)	Pressioni Acqua Valle (F_WaterRes)	Carichi Permanenti Destabili (F_UPL_GDStab)	Carichi Permanenti Stabilizzanti (F_UPL_GStab)	Carichi Variabili Destabili (F_UPL_QDStab)	Carichi Permanenti Destabilizzanti (F_HYD_GDStab)	Carichi Permanenti Stabilizzanti (F_HYD_GStab)	Carichi Variabili Destabilizzanti (F_HYD_QDStab)
Simbolo	γ_G	γ_G	γ_Q	γ_Q	γ_{QE}	γ_G	γ_G	γ_{Gdst}	γ_{Gstb}	γ_{Qdst}	γ_{Gdst}	γ_{Gstb}	γ_{Qdst}
Nominal	1	1	1	1	1	1	1	1	1	1	1	1	1
SLE (Rara)	1	1	1	1	0	1	1	1	1	1	1	1	1
A1+M1+R1	1.3	1	1.5	1	0	1.3	1	1	1	1	1.3	0.9	1
A2+M2+R1	1	1	1.3	1	0	1	1	1	1	1	1.3	0.9	1

Coefficienti M

Nome	Parziale su $\tan(\phi')$ (F_Fr)	Parziale su c' (F_eff_cohe)	Parziale su Su (F_Su)	Parziale su qu (F_qu)	Parziale su peso specifico (F_gamma)
Simbolo	γ_ϕ	γ_c	γ_{cu}	γ_{qu}	γ_γ
Nominal	1	1	1	1	1
SLE (Rara)	1	1	1	1	1
A1+M1+R1	1	1	1	1	1
A2+M2+R1	1.25	1.25	1.4	1	1

Coefficienti R

Nome	Parziale resistenza terreno (es. Kp) (F_Soil_Res_walls)	Parziale resistenza Tiranti permanenti (F_Anch_P)	Parziale resistenza Tiranti temporanei (F_Anch_T)	Parziale elementi strutturali (F_wall)
Simbolo	γ_{Re}	γ_{ap}	γ_{at}	
Nominal	1	1	1	1
SLE (Rara)	1	1	1	1
A1+M1+R1	1	1.2	1.1	1
A2+M2+R1	1	1.2	1.1	1

Risultati SLE (Rara)

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 1

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 1	40.52	0
Stage 1	40.32	0
Stage 1	40.12	0
Stage 1	40.02	0
Stage 1	39.82	0
Stage 1	39.62	0
Stage 1	39.42	0
Stage 1	39.22	0
Stage 1	39.02	0
Stage 1	38.82	0
Stage 1	38.62	0
Stage 1	38.42	0
Stage 1	38.22	0
Stage 1	38.02	0
Stage 1	37.87	0
Stage 1	37.67	0
Stage 1	37.47	0
Stage 1	37.27	0
Stage 1	37.07	0
Stage 1	36.87	0
Stage 1	36.67	0
Stage 1	36.47	0
Stage 1	36.27	0
Stage 1	36.07	0
Stage 1	35.87	0
Stage 1	35.67	0
Stage 1	35.47	0
Stage 1	35.37	0
Stage 1	35.17	0
Stage 1	34.97	0
Stage 1	34.77	0
Stage 1	34.57	0
Stage 1	34.37	0
Stage 1	34.17	0
Stage 1	33.97	0
Stage 1	33.77	0
Stage 1	33.57	0
Stage 1	33.37	0
Stage 1	33.17	0
Stage 1	32.97	0
Stage 1	32.87	0
Stage 1	32.67	0
Stage 1	32.47	0
Stage 1	32.27	0
Stage 1	32.07	0
Stage 1	31.87	0
Stage 1	31.67	0
Stage 1	31.47	0
Stage 1	31.27	0
Stage 1	31.07	0
Stage 1	30.87	0
Stage 1	30.67	0
Stage 1	30.47	0
Stage 1	30.37	0
Stage 1	30.17	0
Stage 1	29.97	0
Stage 1	29.77	0
Stage 1	29.57	0
Stage 1	29.37	0
Stage 1	29.17	0
Stage 1	28.97	0
Stage 1	28.77	0
Stage 1	28.57	0
Stage 1	28.37	0

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 1	28.17	0
Stage 1	27.97	0
Stage 1	27.87	0
Stage 1	27.67	0
Stage 1	27.47	0
Stage 1	27.27	0
Stage 1	27.07	0
Stage 1	26.87	0
Stage 1	26.67	0
Stage 1	26.47	0
Stage 1	26.27	0
Stage 1	26.07	0
Stage 1	25.87	0
Stage 1	25.67	0
Stage 1	25.47	0
Stage 1	25.37	0
Stage 1	25.17	0
Stage 1	24.97	0
Stage 1	24.77	0
Stage 1	24.57	0
Stage 1	24.37	0
Stage 1	24.17	0
Stage 1	23.97	0
Stage 1	23.77	0
Stage 1	23.57	0
Stage 1	23.37	0
Stage 1	23.17	0
Stage 1	22.97	0
Stage 1	22.77	0
Stage 1	22.57	0
Stage 1	22.37	0
Stage 1	22.17	0
Stage 1	21.97	0
Stage 1	21.77	0
Stage 1	21.57	0
Stage 1	21.37	0
Stage 1	21.17	0
Stage 1	20.97	0
Stage 1	20.77	0
Stage 1	20.57	0
Stage 1	20.37	0
Stage 1	20.17	0
Stage 1	19.97	0
Stage 1	19.77	0
Stage 1	19.57	0
Stage 1	19.37	0
Stage 1	19.17	0
Stage 1	18.97	0
Stage 1	18.77	0
Stage 1	18.57	0
Stage 1	18.37	0
Stage 1	18.17	0
Stage 1	17.97	0
Stage 1	17.77	0
Stage 1	17.57	0
Stage 1	17.37	0
Stage 1	17.17	0
Stage 1	16.97	0
Stage 1	16.77	0
Stage 1	16.57	0
Stage 1	16.37	0
Stage 1	16.32	0

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 1

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	40.02	0	0
Stage 1	39.82	0	0
Stage 1	39.62	0	0
Stage 1	39.42	0	0
Stage 1	39.22	0	0
Stage 1	39.02	0	0
Stage 1	38.82	0	0
Stage 1	38.62	0	0
Stage 1	38.42	0	0
Stage 1	38.22	0	0
Stage 1	38.02	0	0
Stage 1	37.87	0	0
Stage 1	37.67	0	0
Stage 1	37.47	0	0
Stage 1	37.27	0	0
Stage 1	37.07	0	0
Stage 1	36.87	0	0
Stage 1	36.67	0	0
Stage 1	36.47	0	0
Stage 1	36.27	0	0
Stage 1	36.07	0	0
Stage 1	35.87	0	0
Stage 1	35.67	0	0
Stage 1	35.47	0	0
Stage 1	35.37	0	0
Stage 1	35.17	0	0
Stage 1	34.97	0	0
Stage 1	34.77	0	0
Stage 1	34.57	0	0
Stage 1	34.37	0	0
Stage 1	34.17	0	0
Stage 1	33.97	0	0
Stage 1	33.77	0	0
Stage 1	33.57	0	0
Stage 1	33.37	0	0
Stage 1	33.17	0	0
Stage 1	32.97	0	0
Stage 1	32.87	0	0
Stage 1	32.67	0	0
Stage 1	32.47	0	0
Stage 1	32.27	0	0
Stage 1	32.07	0	0
Stage 1	31.87	0	0
Stage 1	31.67	0	0
Stage 1	31.47	0	0
Stage 1	31.27	0	0
Stage 1	31.07	0	0
Stage 1	30.87	0	0
Stage 1	30.67	0	0
Stage 1	30.47	0	0
Stage 1	30.37	0	0
Stage 1	30.17	0	0
Stage 1	29.97	0	0
Stage 1	29.77	0	0
Stage 1	29.57	0	0
Stage 1	29.37	0	0
Stage 1	29.17	0	0
Stage 1	28.97	0	0
Stage 1	28.77	0	0
Stage 1	28.57	0	0
Stage 1	28.37	0	0
Stage 1	28.17	0	0
Stage 1	27.97	0	0
Stage 1	27.87	0	0
Stage 1	27.67	0	0
Stage 1	27.47	0	0
Stage 1	27.27	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	27.07	0	0
Stage 1	26.87	0	0
Stage 1	26.67	0	0
Stage 1	26.47	0	0
Stage 1	26.27	0	0
Stage 1	26.07	0	0
Stage 1	25.87	0	0
Stage 1	25.67	0	0
Stage 1	25.47	0	0
Stage 1	25.37	0	0
Stage 1	25.17	0	0
Stage 1	24.97	0	0
Stage 1	24.77	0	0
Stage 1	24.57	0	0
Stage 1	24.37	0	0
Stage 1	24.17	0	0
Stage 1	23.97	0	0
Stage 1	23.77	0	0
Stage 1	23.57	0	0
Stage 1	23.37	0	0
Stage 1	23.17	0	0
Stage 1	22.97	0	0
Stage 1	22.77	0	0
Stage 1	22.57	0	0
Stage 1	22.37	0	0
Stage 1	22.17	0	0
Stage 1	21.97	0	0
Stage 1	21.77	0	0
Stage 1	21.57	0	0
Stage 1	21.37	0	0
Stage 1	21.17	0	0
Stage 1	20.97	0	0
Stage 1	20.77	0	0
Stage 1	20.57	0	0
Stage 1	20.37	0	0
Stage 1	20.17	0	0
Stage 1	19.97	0	0
Stage 1	19.77	0	0
Stage 1	19.57	0	0
Stage 1	19.37	0	0
Stage 1	19.17	0	0
Stage 1	18.97	0	0
Stage 1	18.77	0	0
Stage 1	18.57	0	0
Stage 1	18.37	0	0
Stage 1	18.17	0	0
Stage 1	17.97	0	0
Stage 1	17.77	0	0
Stage 1	17.57	0	0
Stage 1	17.37	0	0
Stage 1	17.17	0	0
Stage 1	16.97	0	0
Stage 1	16.77	0	0
Stage 1	16.57	0	0
Stage 1	16.37	0	0
Stage 1	16.32	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	40.52	0	0
Stage 1	40.32	0	0
Stage 1	40.12	0	0
Stage 1	40.02	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 2

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 2	40.52 0
Stage 2	40.32 0
Stage 2	40.12 0
Stage 2	40.02 0
Stage 2	39.82 16.9
Stage 2	39.62 15.96
Stage 2	39.42 15.01
Stage 2	39.22 14.07
Stage 2	39.02 13.13
Stage 2	38.82 12.19
Stage 2	38.62 11.25
Stage 2	38.42 10.32
Stage 2	38.22 9.39
Stage 2	38.02 8.48
Stage 2	37.87 7.81
Stage 2	37.67 6.93
Stage 2	37.47 6.07
Stage 2	37.27 5.25
Stage 2	37.07 4.47
Stage 2	36.87 3.74
Stage 2	36.67 3.07
Stage 2	36.47 2.46
Stage 2	36.27 1.92
Stage 2	36.07 1.44
Stage 2	35.87 1.04
Stage 2	35.67 0.69
Stage 2	35.47 0.41
Stage 2	35.37 0.29
Stage 2	35.17 0.08
Stage 2	34.97 -0.07
Stage 2	34.77 -0.19
Stage 2	34.57 -0.27
Stage 2	34.37 -0.32
Stage 2	34.17 -0.34
Stage 2	33.97 -0.35
Stage 2	33.77 -0.34
Stage 2	33.57 -0.33
Stage 2	33.37 -0.3
Stage 2	33.17 -0.27
Stage 2	32.97 -0.24
Stage 2	32.87 -0.23
Stage 2	32.67 -0.19
Stage 2	32.47 -0.16
Stage 2	32.27 -0.13
Stage 2	32.07 -0.11
Stage 2	31.87 -0.08
Stage 2	31.67 -0.06
Stage 2	31.47 -0.04
Stage 2	31.27 -0.03
Stage 2	31.07 -0.02
Stage 2	30.87 -0.01
Stage 2	30.67 0
Stage 2	30.47 0.01
Stage 2	30.37 0.01
Stage 2	30.17 0.01
Stage 2	29.97 0.01
Stage 2	29.77 0.01
Stage 2	29.57 0.01
Stage 2	29.37 0.01
Stage 2	29.17 0.01
Stage 2	28.97 0.01
Stage 2	28.77 0.01
Stage 2	28.57 0.01
Stage 2	28.37 0.01
Stage 2	28.17 0.01
Stage 2	27.97 0.01
Stage 2	27.87 0

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 2	27.67	0
Stage 2	27.47	0
Stage 2	27.27	0
Stage 2	27.07	0
Stage 2	26.87	0
Stage 2	26.67	0
Stage 2	26.47	0
Stage 2	26.27	0
Stage 2	26.07	0
Stage 2	25.87	0
Stage 2	25.67	0
Stage 2	25.47	0
Stage 2	25.37	0
Stage 2	25.17	0
Stage 2	24.97	0
Stage 2	24.77	0
Stage 2	24.57	0
Stage 2	24.37	0
Stage 2	24.17	0
Stage 2	23.97	0
Stage 2	23.77	0
Stage 2	23.57	0
Stage 2	23.37	0
Stage 2	23.17	0
Stage 2	22.97	0
Stage 2	22.77	0
Stage 2	22.57	0
Stage 2	22.37	0
Stage 2	22.17	0
Stage 2	21.97	0
Stage 2	21.77	0
Stage 2	21.57	0
Stage 2	21.37	0
Stage 2	21.17	0
Stage 2	20.97	0
Stage 2	20.77	0
Stage 2	20.57	0
Stage 2	20.37	0
Stage 2	20.17	0
Stage 2	19.97	0
Stage 2	19.77	0
Stage 2	19.57	0
Stage 2	19.37	0
Stage 2	19.17	0
Stage 2	18.97	0
Stage 2	18.77	0
Stage 2	18.57	0
Stage 2	18.37	0
Stage 2	18.17	0
Stage 2	17.97	0
Stage 2	17.77	0
Stage 2	17.57	0
Stage 2	17.37	0
Stage 2	17.17	0
Stage 2	16.97	0
Stage 2	16.77	0
Stage 2	16.57	0
Stage 2	16.37	0
Stage 2	16.32	0

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 2

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	40.02	0	0
Stage 2	39.82	0	0
Stage 2	39.82	0	0
Stage 2	39.62	-0.05	-0.25
Stage 2	39.42	-0.2	-0.74
Stage 2	39.22	-0.49	-1.48
Stage 2	39.02	-0.99	-2.46
Stage 2	38.82	-1.72	-3.7
Stage 2	38.62	-2.76	-5.17
Stage 2	38.42	-4.14	-6.9
Stage 2	38.22	-5.91	-8.87
Stage 2	38.02	-8.13	-11.09
Stage 2	37.87	-10.12	-13.24
Stage 2	37.67	-13.23	-15.56
Stage 2	37.47	-16.92	-18.46
Stage 2	37.27	-21.24	-21.6
Stage 2	37.07	-25.79	-22.75
Stage 2	36.87	-29.73	-19.69
Stage 2	36.67	-32.39	-13.28
Stage 2	36.47	-33.91	-7.62
Stage 2	36.27	-34.43	-2.62
Stage 2	36.07	-34.07	1.8
Stage 2	35.87	-32.93	5.73
Stage 2	35.67	-31.08	9.25
Stage 2	35.47	-28.59	12.43
Stage 2	35.37	-27.19	13.99
Stage 2	35.17	-24.16	15.15
Stage 2	34.97	-21	15.82
Stage 2	34.77	-17.85	15.74
Stage 2	34.57	-14.84	15.07
Stage 2	34.37	-12.04	13.96
Stage 2	34.17	-9.52	12.64
Stage 2	33.97	-7.28	11.19
Stage 2	33.77	-5.34	9.7
Stage 2	33.57	-3.69	8.23
Stage 2	33.37	-2.33	6.84
Stage 2	33.17	-1.22	5.55
Stage 2	32.97	-0.34	4.39
Stage 2	32.87	0.02	3.62
Stage 2	32.67	0.6	2.89
Stage 2	32.47	1.02	2.07
Stage 2	32.27	1.29	1.38
Stage 2	32.07	1.45	0.81
Stage 2	31.87	1.52	0.35
Stage 2	31.67	1.52	0
Stage 2	31.47	1.47	-0.27
Stage 2	31.27	1.38	-0.46
Stage 2	31.07	1.26	-0.59
Stage 2	30.87	1.12	-0.67
Stage 2	30.67	0.98	-0.71
Stage 2	30.47	0.84	-0.71
Stage 2	30.37	0.77	-0.7
Stage 2	30.17	0.64	-0.67
Stage 2	29.97	0.51	-0.62
Stage 2	29.77	0.4	-0.56
Stage 2	29.57	0.3	-0.49
Stage 2	29.37	0.22	-0.42
Stage 2	29.17	0.15	-0.36
Stage 2	28.97	0.09	-0.29
Stage 2	28.77	0.04	-0.23
Stage 2	28.57	0.01	-0.18
Stage 2	28.37	-0.02	-0.14
Stage 2	28.17	-0.04	-0.1
Stage 2	27.97	-0.05	-0.06
Stage 2	27.87	-0.06	-0.04
Stage 2	27.67	-0.06	-0.03
Stage 2	27.47	-0.07	-0.01

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	27.27	-0.06	0.01
Stage 2	27.07	-0.06	0.02
Stage 2	26.87	-0.06	0.02
Stage 2	26.67	-0.05	0.03
Stage 2	26.47	-0.04	0.03
Stage 2	26.27	-0.04	0.03
Stage 2	26.07	-0.03	0.03
Stage 2	25.87	-0.03	0.03
Stage 2	25.67	-0.02	0.03
Stage 2	25.47	-0.02	0.02
Stage 2	25.37	-0.01	0.02
Stage 2	25.17	-0.01	0.02
Stage 2	24.97	-0.01	0.02
Stage 2	24.77	0	0.01
Stage 2	24.57	0	0.01
Stage 2	24.37	0	0.01
Stage 2	24.17	0	0.01
Stage 2	23.97	0	0.01
Stage 2	23.77	0	0
Stage 2	23.57	0	0
Stage 2	23.37	0	0
Stage 2	23.17	0	0
Stage 2	22.97	0	0
Stage 2	22.77	0	0
Stage 2	22.57	0	0
Stage 2	22.37	0	0
Stage 2	22.17	0	0
Stage 2	21.97	0	0
Stage 2	21.77	0	0
Stage 2	21.57	0	0
Stage 2	21.37	0	0
Stage 2	21.17	0	0
Stage 2	20.97	0	0
Stage 2	20.77	0	0
Stage 2	20.57	0	0
Stage 2	20.37	0	0
Stage 2	20.17	0	0
Stage 2	19.97	0	0
Stage 2	19.77	0	0
Stage 2	19.57	0	0
Stage 2	19.37	0	0
Stage 2	19.17	0	0
Stage 2	18.97	0	0
Stage 2	18.77	0	0
Stage 2	18.57	0	0
Stage 2	18.37	0	0
Stage 2	18.17	0	0
Stage 2	17.97	0	0
Stage 2	17.77	0	0
Stage 2	17.57	0	0
Stage 2	17.37	0	0
Stage 2	17.17	0	0
Stage 2	16.97	0	0
Stage 2	16.77	0	0
Stage 2	16.57	0	0
Stage 2	16.37	0	0
Stage 2	16.32	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	40.52	0	0
Stage 2	40.32	0	0
Stage 2	40.12	0	0
Stage 2	40.02	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 3

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 3	40.52	0
Stage 3	40.32	0
Stage 3	40.12	0
Stage 3	40.02	0
Stage 3	39.82	14.54
Stage 3	39.62	13.23
Stage 3	39.42	11.93
Stage 3	39.22	10.62
Stage 3	39.02	9.34
Stage 3	38.82	8.08
Stage 3	38.62	6.86
Stage 3	38.42	5.7
Stage 3	38.22	4.62
Stage 3	38.02	3.66
Stage 3	37.87	3.03
Stage 3	37.67	2.33
Stage 3	37.47	1.78
Stage 3	37.27	1.34
Stage 3	37.07	0.99
Stage 3	36.87	0.71
Stage 3	36.67	0.48
Stage 3	36.47	0.31
Stage 3	36.27	0.17
Stage 3	36.07	0.06
Stage 3	35.87	-0.03
Stage 3	35.67	-0.09
Stage 3	35.47	-0.14
Stage 3	35.37	-0.15
Stage 3	35.17	-0.18
Stage 3	34.97	-0.19
Stage 3	34.77	-0.2
Stage 3	34.57	-0.19
Stage 3	34.37	-0.19
Stage 3	34.17	-0.18
Stage 3	33.97	-0.17
Stage 3	33.77	-0.15
Stage 3	33.57	-0.14
Stage 3	33.37	-0.12
Stage 3	33.17	-0.11
Stage 3	32.97	-0.09
Stage 3	32.87	-0.09
Stage 3	32.67	-0.07
Stage 3	32.47	-0.06
Stage 3	32.27	-0.05
Stage 3	32.07	-0.04
Stage 3	31.87	-0.03
Stage 3	31.67	-0.02
Stage 3	31.47	-0.02
Stage 3	31.27	-0.01
Stage 3	31.07	-0.01
Stage 3	30.87	0
Stage 3	30.67	0
Stage 3	30.47	0
Stage 3	30.37	0
Stage 3	30.17	0
Stage 3	29.97	0.01
Stage 3	29.77	0.01
Stage 3	29.57	0.01
Stage 3	29.37	0.01
Stage 3	29.17	0.01
Stage 3	28.97	0.01
Stage 3	28.77	0
Stage 3	28.57	0
Stage 3	28.37	0
Stage 3	28.17	0
Stage 3	27.97	0
Stage 3	27.87	0

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 3	27.67	0
Stage 3	27.47	0
Stage 3	27.27	0
Stage 3	27.07	0
Stage 3	26.87	0
Stage 3	26.67	0
Stage 3	26.47	0
Stage 3	26.27	0
Stage 3	26.07	0
Stage 3	25.87	0
Stage 3	25.67	0
Stage 3	25.47	0
Stage 3	25.37	0
Stage 3	25.17	0
Stage 3	24.97	0
Stage 3	24.77	0
Stage 3	24.57	0
Stage 3	24.37	0
Stage 3	24.17	0
Stage 3	23.97	0
Stage 3	23.77	0
Stage 3	23.57	0
Stage 3	23.37	0
Stage 3	23.17	0
Stage 3	22.97	0
Stage 3	22.77	0
Stage 3	22.57	0
Stage 3	22.37	0
Stage 3	22.17	0
Stage 3	21.97	0
Stage 3	21.77	0
Stage 3	21.57	0
Stage 3	21.37	0
Stage 3	21.17	0
Stage 3	20.97	0
Stage 3	20.77	0
Stage 3	20.57	0
Stage 3	20.37	0
Stage 3	20.17	0
Stage 3	19.97	0
Stage 3	19.77	0
Stage 3	19.57	0
Stage 3	19.37	0
Stage 3	19.17	0
Stage 3	18.97	0
Stage 3	18.77	0
Stage 3	18.57	0
Stage 3	18.37	0
Stage 3	18.17	0
Stage 3	17.97	0
Stage 3	17.77	0
Stage 3	17.57	0
Stage 3	17.37	0
Stage 3	17.17	0
Stage 3	16.97	0
Stage 3	16.77	0
Stage 3	16.57	0
Stage 3	16.37	0
Stage 3	16.32	0

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 3

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	40.02	0	0
Stage 3	39.82	0	0
Stage 3	39.82	0	0
Stage 3	39.62	-0.97	-4.86
Stage 3	39.42	-3.28	-11.53
Stage 3	39.22	-7.13	-19.29
Stage 3	39.02	-12.76	-28.14
Stage 3	38.82	-20.37	-38.04
Stage 3	38.62	-30.16	-48.94
Stage 3	38.42	-42.31	-60.76
Stage 3	38.22	-56.98	-73.37
Stage 3	38.02	-74.31	-86.61
Stage 3	37.87	-89.09	-98.55
Stage 3	37.67	-71.81	86.38
Stage 3	37.47	-57.26	72.75
Stage 3	37.27	-45.36	59.5
Stage 3	37.07	-35.98	46.91
Stage 3	36.87	-28.94	35.18
Stage 3	36.67	-23.34	28.03
Stage 3	36.47	-18.93	22.01
Stage 3	36.27	-15.51	17.13
Stage 3	36.07	-12.84	13.33
Stage 3	35.87	-10.73	10.56
Stage 3	35.67	-8.98	8.73
Stage 3	35.47	-7.44	7.72
Stage 3	35.37	-6.73	7.06
Stage 3	35.17	-5.45	6.41
Stage 3	34.97	-4.33	5.63
Stage 3	34.77	-3.35	4.89
Stage 3	34.57	-2.52	4.16
Stage 3	34.37	-1.83	3.46
Stage 3	34.17	-1.26	2.85
Stage 3	33.97	-0.79	2.32
Stage 3	33.77	-0.42	1.86
Stage 3	33.57	-0.12	1.47
Stage 3	33.37	0.11	1.15
Stage 3	33.17	0.28	0.87
Stage 3	32.97	0.41	0.64
Stage 3	32.87	0.46	0.5
Stage 3	32.67	0.53	0.37
Stage 3	32.47	0.58	0.22
Stage 3	32.27	0.6	0.11
Stage 3	32.07	0.6	0.01
Stage 3	31.87	0.59	-0.06
Stage 3	31.67	0.56	-0.12
Stage 3	31.47	0.53	-0.16
Stage 3	31.27	0.49	-0.19
Stage 3	31.07	0.45	-0.21
Stage 3	30.87	0.4	-0.23
Stage 3	30.67	0.35	-0.24
Stage 3	30.47	0.31	-0.24
Stage 3	30.37	0.28	-0.24
Stage 3	30.17	0.24	-0.23
Stage 3	29.97	0.19	-0.21
Stage 3	29.77	0.15	-0.2
Stage 3	29.57	0.12	-0.17
Stage 3	29.37	0.09	-0.15
Stage 3	29.17	0.06	-0.13
Stage 3	28.97	0.04	-0.11
Stage 3	28.77	0.02	-0.09
Stage 3	28.57	0.01	-0.07
Stage 3	28.37	0	-0.06
Stage 3	28.17	-0.01	-0.04
Stage 3	27.97	-0.02	-0.03
Stage 3	27.87	-0.02	-0.02
Stage 3	27.67	-0.02	-0.02
Stage 3	27.47	-0.02	-0.01

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	27.27	-0.02	0
Stage 3	27.07	-0.02	0
Stage 3	26.87	-0.02	0.01
Stage 3	26.67	-0.02	0.01
Stage 3	26.47	-0.02	0.01
Stage 3	26.27	-0.02	0.01
Stage 3	26.07	-0.02	0.01
Stage 3	25.87	-0.01	0.01
Stage 3	25.67	-0.01	0.01
Stage 3	25.47	-0.01	0.01
Stage 3	25.37	-0.01	0.01
Stage 3	25.17	-0.01	0.01
Stage 3	24.97	0	0.01
Stage 3	24.77	0	0.01
Stage 3	24.57	0	0.01
Stage 3	24.37	0	0
Stage 3	24.17	0	0
Stage 3	23.97	0	0
Stage 3	23.77	0	0
Stage 3	23.57	0	0
Stage 3	23.37	0	0
Stage 3	23.17	0	0
Stage 3	22.97	0	0
Stage 3	22.77	0	0
Stage 3	22.57	0	0
Stage 3	22.37	0	0
Stage 3	22.17	0	0
Stage 3	21.97	0	0
Stage 3	21.77	0	0
Stage 3	21.57	0	0
Stage 3	21.37	0	0
Stage 3	21.17	0	0
Stage 3	20.97	0	0
Stage 3	20.77	0	0
Stage 3	20.57	0	0
Stage 3	20.37	0	0
Stage 3	20.17	0	0
Stage 3	19.97	0	0
Stage 3	19.77	0	0
Stage 3	19.57	0	0
Stage 3	19.37	0	0
Stage 3	19.17	0	0
Stage 3	18.97	0	0
Stage 3	18.77	0	0
Stage 3	18.57	0	0
Stage 3	18.37	0	0
Stage 3	18.17	0	0
Stage 3	17.97	0	0
Stage 3	17.77	0	0
Stage 3	17.57	0	0
Stage 3	17.37	0	0
Stage 3	17.17	0	0
Stage 3	16.97	0	0
Stage 3	16.77	0	0
Stage 3	16.57	0	0
Stage 3	16.37	0	0
Stage 3	16.32	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	40.52	0	0
Stage 3	40.32	0	0
Stage 3	40.12	0	0
Stage 3	40.02	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 4

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 4	40.52 0
Stage 4	40.32 0
Stage 4	40.12 0
Stage 4	40.02 0
Stage 4	39.82 13.75
Stage 4	39.62 12.61
Stage 4	39.42 11.46
Stage 4	39.22 10.33
Stage 4	39.02 9.21
Stage 4	38.82 8.12
Stage 4	38.62 7.07
Stage 4	38.42 6.08
Stage 4	38.22 5.18
Stage 4	38.02 4.4
Stage 4	37.87 3.91
Stage 4	37.67 3.39
Stage 4	37.47 3.03
Stage 4	37.27 2.77
Stage 4	37.07 2.59
Stage 4	36.87 2.48
Stage 4	36.67 2.41
Stage 4	36.47 2.37
Stage 4	36.27 2.34
Stage 4	36.07 2.31
Stage 4	35.87 2.27
Stage 4	35.67 2.22
Stage 4	35.47 2.15
Stage 4	35.37 2.11
Stage 4	35.17 2
Stage 4	34.97 1.88
Stage 4	34.77 1.73
Stage 4	34.57 1.57
Stage 4	34.37 1.4
Stage 4	34.17 1.23
Stage 4	33.97 1.06
Stage 4	33.77 0.9
Stage 4	33.57 0.75
Stage 4	33.37 0.61
Stage 4	33.17 0.48
Stage 4	32.97 0.37
Stage 4	32.87 0.32
Stage 4	32.67 0.23
Stage 4	32.47 0.16
Stage 4	32.27 0.09
Stage 4	32.07 0.04
Stage 4	31.87 0
Stage 4	31.67 -0.04
Stage 4	31.47 -0.06
Stage 4	31.27 -0.08
Stage 4	31.07 -0.09
Stage 4	30.87 -0.1
Stage 4	30.67 -0.1
Stage 4	30.47 -0.1
Stage 4	30.37 -0.1
Stage 4	30.17 -0.1
Stage 4	29.97 -0.09
Stage 4	29.77 -0.09
Stage 4	29.57 -0.08
Stage 4	29.37 -0.07
Stage 4	29.17 -0.06
Stage 4	28.97 -0.05
Stage 4	28.77 -0.05
Stage 4	28.57 -0.04
Stage 4	28.37 -0.03
Stage 4	28.17 -0.03
Stage 4	27.97 -0.02
Stage 4	27.87 -0.02

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 4	27.67	-0.01
Stage 4	27.47	-0.01
Stage 4	27.27	-0.01
Stage 4	27.07	0
Stage 4	26.87	0
Stage 4	26.67	0
Stage 4	26.47	0
Stage 4	26.27	0
Stage 4	26.07	0
Stage 4	25.87	0
Stage 4	25.67	0
Stage 4	25.47	0
Stage 4	25.37	0
Stage 4	25.17	0
Stage 4	24.97	0
Stage 4	24.77	0
Stage 4	24.57	0
Stage 4	24.37	0
Stage 4	24.17	0
Stage 4	23.97	0
Stage 4	23.77	0
Stage 4	23.57	0
Stage 4	23.37	0
Stage 4	23.17	0
Stage 4	22.97	0
Stage 4	22.77	0
Stage 4	22.57	0
Stage 4	22.37	0
Stage 4	22.17	0
Stage 4	21.97	0
Stage 4	21.77	0
Stage 4	21.57	0
Stage 4	21.37	0
Stage 4	21.17	0
Stage 4	20.97	0
Stage 4	20.77	0
Stage 4	20.57	0
Stage 4	20.37	0
Stage 4	20.17	0
Stage 4	19.97	0
Stage 4	19.77	0
Stage 4	19.57	0
Stage 4	19.37	0
Stage 4	19.17	0
Stage 4	18.97	0
Stage 4	18.77	0
Stage 4	18.57	0
Stage 4	18.37	0
Stage 4	18.17	0
Stage 4	17.97	0
Stage 4	17.77	0
Stage 4	17.57	0
Stage 4	17.37	0
Stage 4	17.17	0
Stage 4	16.97	0
Stage 4	16.77	0
Stage 4	16.57	0
Stage 4	16.37	0
Stage 4	16.32	0

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 4

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	40.02	0	0
Stage 4	39.82	0	0
Stage 4	39.82	0	0
Stage 4	39.62	-0.97	-4.86
Stage 4	39.42	-3.42	-12.25
Stage 4	39.22	-7.53	-20.54
Stage 4	39.02	-13.47	-29.73
Stage 4	38.82	-21.43	-39.78
Stage 4	38.62	-31.55	-50.6
Stage 4	38.42	-43.96	-62.04
Stage 4	38.22	-58.75	-73.94
Stage 4	38.02	-75.98	-86.16
Stage 4	37.87	-90.51	-96.9
Stage 4	37.67	-72.32	90.96
Stage 4	37.47	-56.46	79.28
Stage 4	37.27	-42.8	68.33
Stage 4	37.07	-31.14	58.28
Stage 4	36.87	-21.3	49.23
Stage 4	36.67	-13.06	41.2
Stage 4	36.47	-6.22	34.18
Stage 4	36.27	-0.61	28.07
Stage 4	36.07	3.95	22.79
Stage 4	35.87	7.53	17.92
Stage 4	35.67	10.1	12.81
Stage 4	35.47	11.59	7.45
Stage 4	35.37	11.91	3.24
Stage 4	35.17	11.7	-1.05
Stage 4	34.97	10.29	-7.03
Stage 4	34.77	7.64	-13.25
Stage 4	34.57	4.19	-17.29
Stage 4	34.37	0.85	-16.68
Stage 4	34.17	-1.79	-13.19
Stage 4	33.97	-3.8	-10.08
Stage 4	33.77	-5.28	-7.36
Stage 4	33.57	-6.28	-5.01
Stage 4	33.37	-6.89	-3.03
Stage 4	33.17	-7.17	-1.4
Stage 4	32.97	-7.18	-0.07
Stage 4	32.87	-7.11	0.71
Stage 4	32.67	-6.83	1.38
Stage 4	32.47	-6.42	2.05
Stage 4	32.27	-5.92	2.52
Stage 4	32.07	-5.36	2.81
Stage 4	31.87	-4.77	2.95
Stage 4	31.67	-4.17	2.97
Stage 4	31.47	-3.59	2.88
Stage 4	31.27	-3.05	2.72
Stage 4	31.07	-2.55	2.52
Stage 4	30.87	-2.09	2.3
Stage 4	30.67	-1.67	2.07
Stage 4	30.47	-1.31	1.84
Stage 4	30.37	-1.14	1.66
Stage 4	30.17	-0.84	1.5
Stage 4	29.97	-0.58	1.28
Stage 4	29.77	-0.37	1.08
Stage 4	29.57	-0.19	0.9
Stage 4	29.37	-0.04	0.73
Stage 4	29.17	0.07	0.58
Stage 4	28.97	0.16	0.44
Stage 4	28.77	0.23	0.33
Stage 4	28.57	0.27	0.23
Stage 4	28.37	0.3	0.14
Stage 4	28.17	0.32	0.07
Stage 4	27.97	0.32	0.02
Stage 4	27.87	0.32	-0.02
Stage 4	27.67	0.31	-0.05
Stage 4	27.47	0.29	-0.08

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	27.27	0.27	-0.1
Stage 4	27.07	0.25	-0.11
Stage 4	26.87	0.23	-0.12
Stage 4	26.67	0.2	-0.13
Stage 4	26.47	0.18	-0.13
Stage 4	26.27	0.15	-0.12
Stage 4	26.07	0.13	-0.12
Stage 4	25.87	0.11	-0.11
Stage 4	25.67	0.09	-0.1
Stage 4	25.47	0.07	-0.09
Stage 4	25.37	0.06	-0.08
Stage 4	25.17	0.05	-0.07
Stage 4	24.97	0.03	-0.06
Stage 4	24.77	0.02	-0.05
Stage 4	24.57	0.01	-0.05
Stage 4	24.37	0.01	-0.04
Stage 4	24.17	0	-0.03
Stage 4	23.97	0	-0.02
Stage 4	23.77	-0.01	-0.02
Stage 4	23.57	-0.01	-0.01
Stage 4	23.37	-0.01	-0.01
Stage 4	23.17	-0.01	-0.01
Stage 4	22.97	-0.01	0
Stage 4	22.77	-0.01	0
Stage 4	22.57	-0.01	0
Stage 4	22.37	-0.01	0
Stage 4	22.17	-0.01	0
Stage 4	21.97	-0.01	0
Stage 4	21.77	-0.01	0.01
Stage 4	21.57	-0.01	0.01
Stage 4	21.37	-0.01	0.01
Stage 4	21.17	-0.01	0.01
Stage 4	20.97	-0.01	0
Stage 4	20.77	0	0
Stage 4	20.57	0	0
Stage 4	20.37	0	0
Stage 4	20.17	0	0
Stage 4	19.97	0	0
Stage 4	19.77	0	0
Stage 4	19.57	0	0
Stage 4	19.37	0	0
Stage 4	19.17	0	0
Stage 4	18.97	0	0
Stage 4	18.77	0	0
Stage 4	18.57	0	0
Stage 4	18.37	0	0
Stage 4	18.17	0	0
Stage 4	17.97	0	0
Stage 4	17.77	0	0
Stage 4	17.57	0	0
Stage 4	17.37	0	0
Stage 4	17.17	0	0
Stage 4	16.97	0	0
Stage 4	16.77	0	0
Stage 4	16.57	0	0
Stage 4	16.37	0	0
Stage 4	16.32	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	40.52	0	0
Stage 4	40.32	0	0
Stage 4	40.12	0	0
Stage 4	40.02	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 5

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 5	40.52	0
Stage 5	40.32	0
Stage 5	40.12	0
Stage 5	40.02	0
Stage 5	39.82	15.26
Stage 5	39.62	13.77
Stage 5	39.42	12.28
Stage 5	39.22	10.8
Stage 5	39.02	9.32
Stage 5	38.82	7.87
Stage 5	38.62	6.44
Stage 5	38.42	5.07
Stage 5	38.22	3.76
Stage 5	38.02	2.55
Stage 5	37.87	1.73
Stage 5	37.67	0.76
Stage 5	37.47	-0.09
Stage 5	37.27	-0.84
Stage 5	37.07	-1.51
Stage 5	36.87	-2.12
Stage 5	36.67	-2.68
Stage 5	36.47	-3.18
Stage 5	36.27	-3.64
Stage 5	36.07	-4.05
Stage 5	35.87	-4.38
Stage 5	35.67	-4.63
Stage 5	35.47	-4.76
Stage 5	35.37	-4.78
Stage 5	35.17	-4.7
Stage 5	34.97	-4.51
Stage 5	34.77	-4.23
Stage 5	34.57	-3.9
Stage 5	34.37	-3.53
Stage 5	34.17	-3.15
Stage 5	33.97	-2.76
Stage 5	33.77	-2.39
Stage 5	33.57	-2.03
Stage 5	33.37	-1.7
Stage 5	33.17	-1.39
Stage 5	32.97	-1.11
Stage 5	32.87	-0.99
Stage 5	32.67	-0.76
Stage 5	32.47	-0.56
Stage 5	32.27	-0.39
Stage 5	32.07	-0.24
Stage 5	31.87	-0.13
Stage 5	31.67	-0.03
Stage 5	31.47	0.04
Stage 5	31.27	0.1
Stage 5	31.07	0.14
Stage 5	30.87	0.16
Stage 5	30.67	0.18
Stage 5	30.47	0.19
Stage 5	30.37	0.19
Stage 5	30.17	0.18
Stage 5	29.97	0.18
Stage 5	29.77	0.17
Stage 5	29.57	0.15
Stage 5	29.37	0.14
Stage 5	29.17	0.12
Stage 5	28.97	0.1
Stage 5	28.77	0.09
Stage 5	28.57	0.08
Stage 5	28.37	0.06
Stage 5	28.17	0.05
Stage 5	27.97	0.04
Stage 5	27.87	0.03

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 5	27.67	0.02
Stage 5	27.47	0.02
Stage 5	27.27	0.01
Stage 5	27.07	0.01
Stage 5	26.87	0
Stage 5	26.67	0
Stage 5	26.47	0
Stage 5	26.27	-0.01
Stage 5	26.07	-0.01
Stage 5	25.87	-0.01
Stage 5	25.67	-0.01
Stage 5	25.47	-0.01
Stage 5	25.37	-0.01
Stage 5	25.17	-0.01
Stage 5	24.97	-0.01
Stage 5	24.77	-0.01
Stage 5	24.57	-0.01
Stage 5	24.37	-0.01
Stage 5	24.17	-0.01
Stage 5	23.97	0
Stage 5	23.77	0
Stage 5	23.57	0
Stage 5	23.37	0
Stage 5	23.17	0
Stage 5	22.97	0
Stage 5	22.77	0
Stage 5	22.57	0
Stage 5	22.37	0
Stage 5	22.17	0
Stage 5	21.97	0
Stage 5	21.77	0
Stage 5	21.57	0
Stage 5	21.37	0
Stage 5	21.17	0
Stage 5	20.97	0
Stage 5	20.77	0
Stage 5	20.57	0
Stage 5	20.37	0
Stage 5	20.17	0
Stage 5	19.97	0
Stage 5	19.77	0
Stage 5	19.57	0
Stage 5	19.37	0
Stage 5	19.17	0
Stage 5	18.97	0
Stage 5	18.77	0
Stage 5	18.57	0
Stage 5	18.37	0
Stage 5	18.17	0
Stage 5	17.97	0
Stage 5	17.77	0
Stage 5	17.57	0
Stage 5	17.37	0
Stage 5	17.17	0
Stage 5	16.97	0
Stage 5	16.77	0
Stage 5	16.57	0
Stage 5	16.37	0
Stage 5	16.32	0

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 5

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	40.02	0	0
Stage 5	39.82	0	0
Stage 5	39.82	0	0
Stage 5	39.62	-0.41	-2.07
Stage 5	39.42	-1.88	-7.31
Stage 5	39.22	-4.69	-14.09
Stage 5	39.02	-9.18	-22.42
Stage 5	38.82	-15.63	-32.26
Stage 5	38.62	-24.31	-43.4
Stage 5	38.42	-35.45	-55.7
Stage 5	38.22	-49.26	-69.04
Stage 5	38.02	-65.91	-83.27
Stage 5	37.87	-80.36	-96.33
Stage 5	37.67	-63.36	85
Stage 5	37.47	-49.45	69.55
Stage 5	37.27	-38.62	54.16
Stage 5	37.07	-30.82	38.97
Stage 5	36.87	-26	24.09
Stage 5	36.67	-24.09	9.55
Stage 5	36.47	-25.03	-4.67
Stage 5	36.27	-28.74	-18.58
Stage 5	36.07	-35.2	-32.25
Stage 5	35.87	-44.37	-45.89
Stage 5	35.67	-56.35	-59.86
Stage 5	35.47	-71.16	-74.08
Stage 5	35.37	-79.66	-85.01
Stage 5	35.17	-59.48	100.92
Stage 5	34.97	-42.26	86.1
Stage 5	34.77	-27.99	71.32
Stage 5	34.57	-16.63	56.81
Stage 5	34.37	-7.81	44.08
Stage 5	34.17	-0.72	35.48
Stage 5	33.97	4.84	27.79
Stage 5	33.77	9.05	21.04
Stage 5	33.57	12.09	15.2
Stage 5	33.37	14.13	10.22
Stage 5	33.17	15.34	6.05
Stage 5	32.97	15.87	2.63
Stage 5	32.87	15.93	0.57
Stage 5	32.67	15.67	-1.25
Stage 5	32.47	15.05	-3.13
Stage 5	32.27	14.15	-4.51
Stage 5	32.07	13.05	-5.48
Stage 5	31.87	11.83	-6.09
Stage 5	31.67	10.55	-6.43
Stage 5	31.47	9.25	-6.5
Stage 5	31.27	7.97	-6.38
Stage 5	31.07	6.75	-6.1
Stage 5	30.87	5.61	-5.71
Stage 5	30.67	4.56	-5.23
Stage 5	30.47	3.62	-4.71
Stage 5	30.37	3.19	-4.31
Stage 5	30.17	2.41	-3.9
Stage 5	29.97	1.74	-3.37
Stage 5	29.77	1.16	-2.86
Stage 5	29.57	0.69	-2.38
Stage 5	29.37	0.3	-1.94
Stage 5	29.17	-0.01	-1.54
Stage 5	28.97	-0.24	-1.19
Stage 5	28.77	-0.42	-0.88
Stage 5	28.57	-0.54	-0.62
Stage 5	28.37	-0.62	-0.39
Stage 5	28.17	-0.66	-0.21
Stage 5	27.97	-0.68	-0.07
Stage 5	27.87	-0.67	0.02
Stage 5	27.67	-0.65	0.1
Stage 5	27.47	-0.62	0.17

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	27.27	-0.58	0.22
Stage 5	27.07	-0.52	0.26
Stage 5	26.87	-0.47	0.27
Stage 5	26.67	-0.41	0.28
Stage 5	26.47	-0.36	0.28
Stage 5	26.27	-0.31	0.26
Stage 5	26.07	-0.26	0.25
Stage 5	25.87	-0.21	0.23
Stage 5	25.67	-0.17	0.21
Stage 5	25.47	-0.13	0.18
Stage 5	25.37	-0.12	0.17
Stage 5	25.17	-0.09	0.15
Stage 5	24.97	-0.06	0.13
Stage 5	24.77	-0.04	0.11
Stage 5	24.57	-0.02	0.09
Stage 5	24.37	0	0.07
Stage 5	24.17	0.01	0.06
Stage 5	23.97	0.02	0.04
Stage 5	23.77	0.02	0.03
Stage 5	23.57	0.03	0.02
Stage 5	23.37	0.03	0.01
Stage 5	23.17	0.03	0.01
Stage 5	22.97	0.03	0
Stage 5	22.77	0.03	0
Stage 5	22.57	0.03	-0.01
Stage 5	22.37	0.03	-0.01
Stage 5	22.17	0.02	-0.01
Stage 5	21.97	0.02	-0.01
Stage 5	21.77	0.02	-0.01
Stage 5	21.57	0.02	-0.01
Stage 5	21.37	0.01	-0.01
Stage 5	21.17	0.01	-0.01
Stage 5	20.97	0.01	-0.01
Stage 5	20.77	0.01	-0.01
Stage 5	20.57	0.01	-0.01
Stage 5	20.37	0.01	-0.01
Stage 5	20.17	0	-0.01
Stage 5	19.97	0	-0.01
Stage 5	19.77	0	0
Stage 5	19.57	0	0
Stage 5	19.37	0	0
Stage 5	19.17	0	0
Stage 5	18.97	0	0
Stage 5	18.77	0	0
Stage 5	18.57	0	0
Stage 5	18.37	0	0
Stage 5	18.17	0	0
Stage 5	17.97	0	0
Stage 5	17.77	0	0
Stage 5	17.57	0	0
Stage 5	17.37	0	0
Stage 5	17.17	0	0
Stage 5	16.97	0	0
Stage 5	16.77	0	0
Stage 5	16.57	0	0
Stage 5	16.37	0	0
Stage 5	16.32	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	40.52	0	0
Stage 5	40.32	0	0
Stage 5	40.12	0	0
Stage 5	40.02	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 6

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 6	40.52	0
Stage 6	40.32	0
Stage 6	40.12	0
Stage 6	40.02	0
Stage 6	39.82	14.73
Stage 6	39.62	13.28
Stage 6	39.42	11.82
Stage 6	39.22	10.37
Stage 6	39.02	8.93
Stage 6	38.82	7.52
Stage 6	38.62	6.13
Stage 6	38.42	4.8
Stage 6	38.22	3.55
Stage 6	38.02	2.4
Stage 6	37.87	1.63
Stage 6	37.67	0.74
Stage 6	37.47	-0.02
Stage 6	37.27	-0.67
Stage 6	37.07	-1.22
Stage 6	36.87	-1.7
Stage 6	36.67	-2.11
Stage 6	36.47	-2.45
Stage 6	36.27	-2.73
Stage 6	36.07	-2.93
Stage 6	35.87	-3.03
Stage 6	35.67	-3.04
Stage 6	35.47	-2.91
Stage 6	35.37	-2.79
Stage 6	35.17	-2.43
Stage 6	34.97	-1.94
Stage 6	34.77	-1.37
Stage 6	34.57	-0.74
Stage 6	34.37	-0.09
Stage 6	34.17	0.55
Stage 6	33.97	1.17
Stage 6	33.77	1.73
Stage 6	33.57	2.24
Stage 6	33.37	2.67
Stage 6	33.17	3.02
Stage 6	32.97	3.29
Stage 6	32.87	3.38
Stage 6	32.67	3.51
Stage 6	32.47	3.55
Stage 6	32.27	3.51
Stage 6	32.07	3.4
Stage 6	31.87	3.24
Stage 6	31.67	3.03
Stage 6	31.47	2.8
Stage 6	31.27	2.54
Stage 6	31.07	2.28
Stage 6	30.87	2.01
Stage 6	30.67	1.75
Stage 6	30.47	1.51
Stage 6	30.37	1.39
Stage 6	30.17	1.16
Stage 6	29.97	0.95
Stage 6	29.77	0.77
Stage 6	29.57	0.6
Stage 6	29.37	0.45
Stage 6	29.17	0.32
Stage 6	28.97	0.21
Stage 6	28.77	0.11
Stage 6	28.57	0.03
Stage 6	28.37	-0.03
Stage 6	28.17	-0.08
Stage 6	27.97	-0.12
Stage 6	27.87	-0.13

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 6	27.67 -0.16
Stage 6	27.47 -0.17
Stage 6	27.27 -0.18
Stage 6	27.07 -0.19
Stage 6	26.87 -0.18
Stage 6	26.67 -0.18
Stage 6	26.47 -0.17
Stage 6	26.27 -0.16
Stage 6	26.07 -0.15
Stage 6	25.87 -0.14
Stage 6	25.67 -0.12
Stage 6	25.47 -0.11
Stage 6	25.37 -0.1
Stage 6	25.17 -0.09
Stage 6	24.97 -0.08
Stage 6	24.77 -0.07
Stage 6	24.57 -0.05
Stage 6	24.37 -0.04
Stage 6	24.17 -0.04
Stage 6	23.97 -0.03
Stage 6	23.77 -0.02
Stage 6	23.57 -0.02
Stage 6	23.37 -0.01
Stage 6	23.17 -0.01
Stage 6	22.97 0
Stage 6	22.77 0
Stage 6	22.57 0
Stage 6	22.37 0
Stage 6	22.17 0.01
Stage 6	21.97 0.01
Stage 6	21.77 0.01
Stage 6	21.57 0.01
Stage 6	21.37 0.01
Stage 6	21.17 0.01
Stage 6	20.97 0.01
Stage 6	20.77 0.01
Stage 6	20.57 0.01
Stage 6	20.37 0.01
Stage 6	20.17 0.01
Stage 6	19.97 0
Stage 6	19.77 0
Stage 6	19.57 0
Stage 6	19.37 0
Stage 6	19.17 0
Stage 6	18.97 0
Stage 6	18.77 0
Stage 6	18.57 0
Stage 6	18.37 0
Stage 6	18.17 0
Stage 6	17.97 0
Stage 6	17.77 0
Stage 6	17.57 0
Stage 6	17.37 0
Stage 6	17.17 0
Stage 6	16.97 0
Stage 6	16.77 0
Stage 6	16.57 0
Stage 6	16.37 0
Stage 6	16.32 0

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 6

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	40.02	0	0
Stage 6	39.82	0	0
Stage 6	39.82	0	0
Stage 6	39.62	-0.55	-2.73
Stage 6	39.42	-2.26	-8.58
Stage 6	39.22	-5.45	-15.94
Stage 6	39.02	-10.41	-24.79
Stage 6	38.82	-17.41	-35
Stage 6	38.62	-26.69	-46.42
Stage 6	38.42	-38.48	-58.95
Stage 6	38.22	-52.98	-72.5
Stage 6	38.02	-70.36	-86.89
Stage 6	37.87	-85.37	-100.05
Stage 6	37.67	-69.16	81.05
Stage 6	37.47	-56.04	65.59
Stage 6	37.27	-45.99	50.27
Stage 6	37.07	-38.93	35.3
Stage 6	36.87	-34.77	20.77
Stage 6	36.67	-33.42	6.74
Stage 6	36.47	-34.78	-6.77
Stage 6	36.27	-38.73	-19.78
Stage 6	36.07	-45.2	-32.32
Stage 6	35.87	-54.11	-44.56
Stage 6	35.67	-65.48	-56.86
Stage 6	35.47	-79.3	-69.11
Stage 6	35.37	-87.13	-78.32
Stage 6	35.17	-64.52	113.08
Stage 6	34.97	-44.3	101.07
Stage 6	34.77	-26.41	89.47
Stage 6	34.57	-10.73	78.41
Stage 6	34.37	2.87	67.99
Stage 6	34.17	14.47	58.01
Stage 6	33.97	24.17	48.46
Stage 6	33.77	32.02	39.3
Stage 6	33.57	38.12	30.47
Stage 6	33.37	42.5	21.9
Stage 6	33.17	45.2	13.5
Stage 6	32.97	46.21	5.06
Stage 6	32.87	46.07	-1.45
Stage 6	32.67	44.45	-8.06
Stage 6	32.47	41.03	-17.12
Stage 6	32.27	35.75	-26.42
Stage 6	32.07	29.04	-33.54
Stage 6	31.87	21.83	-36.07
Stage 6	31.67	14.96	-34.31
Stage 6	31.47	9.12	-29.22
Stage 6	31.27	4.22	-24.47
Stage 6	31.07	0.21	-20.1
Stage 6	30.87	-3.02	-16.11
Stage 6	30.67	-5.52	-12.54
Stage 6	30.47	-7.4	-9.38
Stage 6	30.37	-8.13	-7.31
Stage 6	30.17	-9.21	-5.4
Stage 6	29.97	-9.86	-3.23
Stage 6	29.77	-10.14	-1.41
Stage 6	29.57	-10.12	0.07
Stage 6	29.37	-9.87	1.26
Stage 6	29.17	-9.44	2.18
Stage 6	28.97	-8.86	2.86
Stage 6	28.77	-8.2	3.34
Stage 6	28.57	-7.47	3.64
Stage 6	28.37	-6.71	3.78
Stage 6	28.17	-5.95	3.79
Stage 6	27.97	-5.22	3.7
Stage 6	27.87	-4.86	3.58
Stage 6	27.67	-4.17	3.45
Stage 6	27.47	-3.52	3.23

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	27.27	-2.93	2.98
Stage 6	27.07	-2.38	2.71
Stage 6	26.87	-1.9	2.44
Stage 6	26.67	-1.46	2.17
Stage 6	26.47	-1.08	1.91
Stage 6	26.27	-0.75	1.65
Stage 6	26.07	-0.47	1.41
Stage 6	25.87	-0.23	1.19
Stage 6	25.67	-0.03	0.98
Stage 6	25.47	0.12	0.79
Stage 6	25.37	0.19	0.66
Stage 6	25.17	0.3	0.54
Stage 6	24.97	0.38	0.4
Stage 6	24.77	0.44	0.28
Stage 6	24.57	0.47	0.18
Stage 6	24.37	0.49	0.09
Stage 6	24.17	0.49	0.02
Stage 6	23.97	0.49	-0.04
Stage 6	23.77	0.47	-0.09
Stage 6	23.57	0.44	-0.12
Stage 6	23.37	0.41	-0.15
Stage 6	23.17	0.38	-0.17
Stage 6	22.97	0.35	-0.18
Stage 6	22.77	0.31	-0.18
Stage 6	22.57	0.27	-0.18
Stage 6	22.37	0.24	-0.18
Stage 6	22.17	0.21	-0.17
Stage 6	21.97	0.17	-0.16
Stage 6	21.77	0.15	-0.15
Stage 6	21.57	0.12	-0.13
Stage 6	21.37	0.09	-0.12
Stage 6	21.17	0.07	-0.11
Stage 6	20.97	0.05	-0.09
Stage 6	20.77	0.04	-0.08
Stage 6	20.57	0.03	-0.07
Stage 6	20.37	0.01	-0.06
Stage 6	20.17	0	-0.05
Stage 6	19.97	0	-0.04
Stage 6	19.77	-0.01	-0.03
Stage 6	19.57	-0.01	-0.02
Stage 6	19.37	-0.01	-0.01
Stage 6	19.17	-0.02	-0.01
Stage 6	18.97	-0.02	0
Stage 6	18.77	-0.02	0
Stage 6	18.57	-0.02	0
Stage 6	18.37	-0.02	0.01
Stage 6	18.17	-0.01	0.01
Stage 6	17.97	-0.01	0.01
Stage 6	17.77	-0.01	0.01
Stage 6	17.57	-0.01	0.01
Stage 6	17.37	-0.01	0.01
Stage 6	17.17	0	0.01
Stage 6	16.97	0	0.01
Stage 6	16.77	0	0.01
Stage 6	16.57	0	0
Stage 6	16.37	0	0
Stage 6	16.32	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	40.52	0	0
Stage 6	40.32	0	0
Stage 6	40.12	0	0
Stage 6	40.02	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 7

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 7	40.52	0
Stage 7	40.32	0
Stage 7	40.12	0
Stage 7	40.02	0
Stage 7	39.82	15.47
Stage 7	39.62	13.98
Stage 7	39.42	12.48
Stage 7	39.22	11
Stage 7	39.02	9.52
Stage 7	38.82	8.06
Stage 7	38.62	6.62
Stage 7	38.42	5.24
Stage 7	38.22	3.92
Stage 7	38.02	2.69
Stage 7	37.87	1.86
Stage 7	37.67	0.86
Stage 7	37.47	-0.02
Stage 7	37.27	-0.81
Stage 7	37.07	-1.53
Stage 7	36.87	-2.2
Stage 7	36.67	-2.83
Stage 7	36.47	-3.43
Stage 7	36.27	-4
Stage 7	36.07	-4.52
Stage 7	35.87	-4.99
Stage 7	35.67	-5.4
Stage 7	35.47	-5.71
Stage 7	35.37	-5.82
Stage 7	35.17	-5.96
Stage 7	34.97	-5.99
Stage 7	34.77	-5.96
Stage 7	34.57	-5.9
Stage 7	34.37	-5.81
Stage 7	34.17	-5.72
Stage 7	33.97	-5.63
Stage 7	33.77	-5.55
Stage 7	33.57	-5.47
Stage 7	33.37	-5.38
Stage 7	33.17	-5.26
Stage 7	32.97	-5.09
Stage 7	32.87	-4.97
Stage 7	32.67	-4.67
Stage 7	32.47	-4.3
Stage 7	32.27	-3.9
Stage 7	32.07	-3.48
Stage 7	31.87	-3.07
Stage 7	31.67	-2.67
Stage 7	31.47	-2.28
Stage 7	31.27	-1.93
Stage 7	31.07	-1.6
Stage 7	30.87	-1.3
Stage 7	30.67	-1.03
Stage 7	30.47	-0.79
Stage 7	30.37	-0.69
Stage 7	30.17	-0.5
Stage 7	29.97	-0.33
Stage 7	29.77	-0.2
Stage 7	29.57	-0.09
Stage 7	29.37	0
Stage 7	29.17	0.07
Stage 7	28.97	0.13
Stage 7	28.77	0.17
Stage 7	28.57	0.19
Stage 7	28.37	0.21
Stage 7	28.17	0.21
Stage 7	27.97	0.21
Stage 7	27.87	0.21

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 7	27.67 0.2
Stage 7	27.47 0.19
Stage 7	27.27 0.18
Stage 7	27.07 0.16
Stage 7	26.87 0.14
Stage 7	26.67 0.12
Stage 7	26.47 0.11
Stage 7	26.27 0.09
Stage 7	26.07 0.08
Stage 7	25.87 0.06
Stage 7	25.67 0.05
Stage 7	25.47 0.04
Stage 7	25.37 0.03
Stage 7	25.17 0.02
Stage 7	24.97 0.01
Stage 7	24.77 0.01
Stage 7	24.57 0
Stage 7	24.37 0
Stage 7	24.17 -0.01
Stage 7	23.97 -0.01
Stage 7	23.77 -0.01
Stage 7	23.57 -0.01
Stage 7	23.37 -0.01
Stage 7	23.17 -0.01
Stage 7	22.97 -0.01
Stage 7	22.77 -0.01
Stage 7	22.57 -0.01
Stage 7	22.37 -0.01
Stage 7	22.17 -0.01
Stage 7	21.97 -0.01
Stage 7	21.77 -0.01
Stage 7	21.57 -0.01
Stage 7	21.37 -0.01
Stage 7	21.17 -0.01
Stage 7	20.97 -0.01
Stage 7	20.77 0
Stage 7	20.57 0
Stage 7	20.37 0
Stage 7	20.17 0
Stage 7	19.97 0
Stage 7	19.77 0
Stage 7	19.57 0
Stage 7	19.37 0
Stage 7	19.17 0
Stage 7	18.97 0
Stage 7	18.77 0
Stage 7	18.57 0
Stage 7	18.37 0
Stage 7	18.17 0
Stage 7	17.97 0
Stage 7	17.77 0
Stage 7	17.57 0
Stage 7	17.37 0
Stage 7	17.17 0
Stage 7	16.97 0
Stage 7	16.77 0
Stage 7	16.57 0
Stage 7	16.37 0
Stage 7	16.32 0

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 7

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	40.02	0	0
Stage 7	39.82	0	0
Stage 7	39.82	0	0
Stage 7	39.62	-0.36	-1.82
Stage 7	39.42	-1.72	-6.8
Stage 7	39.22	-4.39	-13.34
Stage 7	39.02	-8.68	-21.42
Stage 7	38.82	-14.86	-30.92
Stage 7	38.62	-23.19	-41.66
Stage 7	38.42	-33.91	-53.59
Stage 7	38.22	-47.23	-66.6
Stage 7	38.02	-63.34	-80.54
Stage 7	37.87	-77.34	-93.38
Stage 7	37.67	-59.67	88.36
Stage 7	37.47	-45.06	73.05
Stage 7	37.27	-33.51	57.74
Stage 7	37.07	-25	42.6
Stage 7	36.87	-19.46	27.7
Stage 7	36.67	-16.84	13.09
Stage 7	36.47	-17.09	-1.25
Stage 7	36.27	-20.16	-15.35
Stage 7	36.07	-26.02	-29.3
Stage 7	35.87	-34.68	-43.3
Stage 7	35.67	-46.23	-57.75
Stage 7	35.47	-60.74	-72.56
Stage 7	35.37	-69.14	-84.05
Stage 7	35.17	-49.27	99.37
Stage 7	34.97	-32.56	83.57
Stage 7	34.77	-19.03	67.64
Stage 7	34.57	-8.69	51.69
Stage 7	34.37	-1.53	35.81
Stage 7	34.17	2.44	19.82
Stage 7	33.97	3.17	3.69
Stage 7	33.77	0.66	-12.57
Stage 7	33.57	-5.13	-28.96
Stage 7	33.37	-14.23	-45.49
Stage 7	33.17	-26.66	-62.15
Stage 7	32.97	-42.46	-79.02
Stage 7	32.87	-51.65	-91.84
Stage 7	32.67	-33.2	92.25
Stage 7	32.47	-18.19	75.03
Stage 7	32.27	-6.62	57.88
Stage 7	32.07	1.57	40.95
Stage 7	31.87	6.88	26.55
Stage 7	31.67	10.37	17.44
Stage 7	31.47	12.9	12.66
Stage 7	31.27	14.61	8.55
Stage 7	31.07	15.63	5.08
Stage 7	30.87	16.07	2.2
Stage 7	30.67	16.04	-0.15
Stage 7	30.47	15.63	-2.03
Stage 7	30.37	15.32	-3.12
Stage 7	30.17	14.51	-4.06
Stage 7	29.97	13.51	-4.99
Stage 7	29.77	12.39	-5.62
Stage 7	29.57	11.19	-6
Stage 7	29.37	9.96	-6.14
Stage 7	29.17	8.75	-6.08
Stage 7	28.97	7.57	-5.87
Stage 7	28.77	6.47	-5.54
Stage 7	28.57	5.43	-5.16
Stage 7	28.37	4.49	-4.74
Stage 7	28.17	3.62	-4.31
Stage 7	27.97	2.85	-3.87
Stage 7	27.87	2.49	-3.54
Stage 7	27.67	1.85	-3.21
Stage 7	27.47	1.3	-2.78

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	27.27	0.82	-2.37
Stage 7	27.07	0.43	-1.98
Stage 7	26.87	0.1	-1.62
Stage 7	26.67	-0.16	-1.3
Stage 7	26.47	-0.36	-1.01
Stage 7	26.27	-0.51	-0.75
Stage 7	26.07	-0.61	-0.53
Stage 7	25.87	-0.68	-0.34
Stage 7	25.67	-0.71	-0.18
Stage 7	25.47	-0.72	-0.04
Stage 7	25.37	-0.72	0.03
Stage 7	25.17	-0.7	0.1
Stage 7	24.97	-0.66	0.18
Stage 7	24.77	-0.62	0.23
Stage 7	24.57	-0.56	0.27
Stage 7	24.37	-0.51	0.29
Stage 7	24.17	-0.45	0.29
Stage 7	23.97	-0.39	0.29
Stage 7	23.77	-0.33	0.28
Stage 7	23.57	-0.28	0.26
Stage 7	23.37	-0.23	0.24
Stage 7	23.17	-0.19	0.22
Stage 7	22.97	-0.15	0.2
Stage 7	22.77	-0.12	0.17
Stage 7	22.57	-0.08	0.15
Stage 7	22.37	-0.06	0.13
Stage 7	22.17	-0.04	0.11
Stage 7	21.97	-0.02	0.09
Stage 7	21.77	0	0.08
Stage 7	21.57	0.01	0.06
Stage 7	21.37	0.02	0.05
Stage 7	21.17	0.03	0.04
Stage 7	20.97	0.03	0.03
Stage 7	20.77	0.04	0.02
Stage 7	20.57	0.04	0.01
Stage 7	20.37	0.04	0
Stage 7	20.17	0.04	0
Stage 7	19.97	0.04	-0.01
Stage 7	19.77	0.04	-0.01
Stage 7	19.57	0.03	-0.01
Stage 7	19.37	0.03	-0.01
Stage 7	19.17	0.03	-0.02
Stage 7	18.97	0.02	-0.02
Stage 7	18.77	0.02	-0.02
Stage 7	18.57	0.02	-0.02
Stage 7	18.37	0.02	-0.01
Stage 7	18.17	0.01	-0.01
Stage 7	17.97	0.01	-0.01
Stage 7	17.77	0.01	-0.01
Stage 7	17.57	0.01	-0.01
Stage 7	17.37	0	-0.01
Stage 7	17.17	0	-0.01
Stage 7	16.97	0	-0.01
Stage 7	16.77	0	0
Stage 7	16.57	0	0
Stage 7	16.37	0	0
Stage 7	16.32	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	40.52	0	0
Stage 7	40.32	0	0
Stage 7	40.12	0	0
Stage 7	40.02	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 8

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 8	40.52	0
Stage 8	40.32	0
Stage 8	40.12	0
Stage 8	40.02	0
Stage 8	39.82	15.39
Stage 8	39.62	13.86
Stage 8	39.42	12.33
Stage 8	39.22	10.8
Stage 8	39.02	9.28
Stage 8	38.82	7.78
Stage 8	38.62	6.3
Stage 8	38.42	4.88
Stage 8	38.22	3.52
Stage 8	38.02	2.26
Stage 8	37.87	1.4
Stage 8	37.67	0.38
Stage 8	37.47	-0.52
Stage 8	37.27	-1.33
Stage 8	37.07	-2.06
Stage 8	36.87	-2.73
Stage 8	36.67	-3.35
Stage 8	36.47	-3.92
Stage 8	36.27	-4.44
Stage 8	36.07	-4.91
Stage 8	35.87	-5.3
Stage 8	35.67	-5.6
Stage 8	35.47	-5.78
Stage 8	35.37	-5.82
Stage 8	35.17	-5.78
Stage 8	34.97	-5.62
Stage 8	34.77	-5.35
Stage 8	34.57	-5.01
Stage 8	34.37	-4.61
Stage 8	34.17	-4.17
Stage 8	33.97	-3.69
Stage 8	33.77	-3.18
Stage 8	33.57	-2.62
Stage 8	33.37	-2.01
Stage 8	33.17	-1.33
Stage 8	32.97	-0.56
Stage 8	32.87	-0.13
Stage 8	32.67	0.81
Stage 8	32.47	1.83
Stage 8	32.27	2.9
Stage 8	32.07	3.97
Stage 8	31.87	5.01
Stage 8	31.67	6
Stage 8	31.47	6.89
Stage 8	31.27	7.68
Stage 8	31.07	8.35
Stage 8	30.87	8.88
Stage 8	30.67	9.26
Stage 8	30.47	9.49
Stage 8	30.37	9.55
Stage 8	30.17	9.55
Stage 8	29.97	9.41
Stage 8	29.77	9.14
Stage 8	29.57	8.76
Stage 8	29.37	8.27
Stage 8	29.17	7.72
Stage 8	28.97	7.11
Stage 8	28.77	6.48
Stage 8	28.57	5.83
Stage 8	28.37	5.19
Stage 8	28.17	4.57
Stage 8	27.97	3.97
Stage 8	27.87	3.68

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento			Muro: LEFT
Stage	Z (m)	Spostamento (mm)	
Stage 8	27.67	3.13	
Stage 8	27.47	2.62	
Stage 8	27.27	2.16	
Stage 8	27.07	1.74	
Stage 8	26.87	1.36	
Stage 8	26.67	1.03	
Stage 8	26.47	0.74	
Stage 8	26.27	0.48	
Stage 8	26.07	0.27	
Stage 8	25.87	0.09	
Stage 8	25.67	-0.06	
Stage 8	25.47	-0.18	
Stage 8	25.37	-0.23	
Stage 8	25.17	-0.31	
Stage 8	24.97	-0.37	
Stage 8	24.77	-0.41	
Stage 8	24.57	-0.44	
Stage 8	24.37	-0.45	
Stage 8	24.17	-0.46	
Stage 8	23.97	-0.45	
Stage 8	23.77	-0.44	
Stage 8	23.57	-0.42	
Stage 8	23.37	-0.39	
Stage 8	23.17	-0.37	
Stage 8	22.97	-0.34	
Stage 8	22.77	-0.31	
Stage 8	22.57	-0.28	
Stage 8	22.37	-0.25	
Stage 8	22.17	-0.22	
Stage 8	21.97	-0.19	
Stage 8	21.77	-0.16	
Stage 8	21.57	-0.14	
Stage 8	21.37	-0.12	
Stage 8	21.17	-0.1	
Stage 8	20.97	-0.08	
Stage 8	20.77	-0.06	
Stage 8	20.57	-0.05	
Stage 8	20.37	-0.03	
Stage 8	20.17	-0.02	
Stage 8	19.97	-0.01	
Stage 8	19.77	0	
Stage 8	19.57	0	
Stage 8	19.37	0.01	
Stage 8	19.17	0.01	
Stage 8	18.97	0.01	
Stage 8	18.77	0.02	
Stage 8	18.57	0.02	
Stage 8	18.37	0.02	
Stage 8	18.17	0.02	
Stage 8	17.97	0.02	
Stage 8	17.77	0.02	
Stage 8	17.57	0.02	
Stage 8	17.37	0.02	
Stage 8	17.17	0.02	
Stage 8	16.97	0.02	
Stage 8	16.77	0.02	
Stage 8	16.57	0.02	
Stage 8	16.37	0.02	
Stage 8	16.32	0.02	

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 8

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	40.02	0	0
Stage 8	39.82	0	0
Stage 8	39.82	0	0
Stage 8	39.62	-0.38	-1.89
Stage 8	39.42	-1.77	-6.98
Stage 8	39.22	-4.51	-13.67
Stage 8	39.02	-8.89	-21.93
Stage 8	38.82	-15.22	-31.65
Stage 8	38.62	-23.76	-42.66
Stage 8	38.42	-34.73	-54.89
Stage 8	38.22	-48.38	-68.23
Stage 8	38.02	-64.89	-82.54
Stage 8	37.87	-79.24	-95.71
Stage 8	37.67	-62.26	84.9
Stage 8	37.47	-48.41	69.26
Stage 8	37.27	-37.69	53.62
Stage 8	37.07	-30.06	38.16
Stage 8	36.87	-25.47	22.95
Stage 8	36.67	-23.86	8.03
Stage 8	36.47	-25.18	-6.61
Stage 8	36.27	-29.38	-21
Stage 8	36.07	-36.42	-35.21
Stage 8	35.87	-46.31	-49.44
Stage 8	35.67	-59.12	-64.06
Stage 8	35.47	-74.92	-78.99
Stage 8	35.37	-83.97	-90.51
Stage 8	35.17	-65.39	92.91
Stage 8	34.97	-49.94	77.27
Stage 8	34.77	-37.6	61.69
Stage 8	34.57	-28.33	46.32
Stage 8	34.37	-22.08	31.27
Stage 8	34.17	-18.8	16.39
Stage 8	33.97	-18.46	1.71
Stage 8	33.77	-21.01	-12.73
Stage 8	33.57	-26.39	-26.9
Stage 8	33.37	-34.54	-40.76
Stage 8	33.17	-45.4	-54.28
Stage 8	32.97	-58.89	-67.47
Stage 8	32.87	-66.6	-77.12
Stage 8	32.67	-42.6	119.98
Stage 8	32.47	-21.03	107.89
Stage 8	32.27	-1.73	96.47
Stage 8	32.07	15.43	85.79
Stage 8	31.87	30.61	75.9
Stage 8	31.67	43.78	65.86
Stage 8	31.47	54.89	55.57
Stage 8	31.27	63.9	45.04
Stage 8	31.07	70.75	34.26
Stage 8	30.87	75.4	23.23
Stage 8	30.67	77.79	11.96
Stage 8	30.47	77.88	0.44
Stage 8	30.37	77.04	-8.38
Stage 8	30.17	73.58	-17.3
Stage 8	29.97	67.7	-29.43
Stage 8	29.77	59.33	-41.82
Stage 8	29.57	48.93	-52.02
Stage 8	29.37	37.41	-57.6
Stage 8	29.17	25.69	-58.58
Stage 8	28.97	14.7	-54.95
Stage 8	28.77	5.37	-46.68
Stage 8	28.57	-2.34	-38.52
Stage 8	28.37	-8.53	-30.97
Stage 8	28.17	-13.38	-24.24
Stage 8	27.97	-17.04	-18.3
Stage 8	27.87	-18.48	-14.41
Stage 8	27.67	-20.64	-10.79
Stage 8	27.47	-21.97	-6.66

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	27.27	-22.61	-3.17
Stage 8	27.07	-22.66	-0.28
Stage 8	26.87	-22.25	2.07
Stage 8	26.67	-21.46	3.94
Stage 8	26.47	-20.38	5.37
Stage 8	26.27	-19.1	6.42
Stage 8	26.07	-17.67	7.14
Stage 8	25.87	-16.16	7.58
Stage 8	25.67	-14.6	7.78
Stage 8	25.47	-13.05	7.75
Stage 8	25.37	-12.29	7.6
Stage 8	25.17	-10.81	7.41
Stage 8	24.97	-9.39	7.06
Stage 8	24.77	-8.07	6.65
Stage 8	24.57	-6.83	6.18
Stage 8	24.37	-5.69	5.69
Stage 8	24.17	-4.66	5.17
Stage 8	23.97	-3.73	4.66
Stage 8	23.77	-2.9	4.15
Stage 8	23.57	-2.17	3.65
Stage 8	23.37	-1.53	3.18
Stage 8	23.17	-0.98	2.74
Stage 8	22.97	-0.52	2.33
Stage 8	22.77	-0.13	1.94
Stage 8	22.57	0.19	1.6
Stage 8	22.37	0.45	1.28
Stage 8	22.17	0.65	1
Stage 8	21.97	0.8	0.76
Stage 8	21.77	0.91	0.54
Stage 8	21.57	0.98	0.35
Stage 8	21.37	1.02	0.19
Stage 8	21.17	1.03	0.06
Stage 8	20.97	1.02	-0.05
Stage 8	20.77	0.99	-0.14
Stage 8	20.57	0.95	-0.21
Stage 8	20.37	0.9	-0.27
Stage 8	20.17	0.83	-0.3
Stage 8	19.97	0.77	-0.33
Stage 8	19.77	0.7	-0.35
Stage 8	19.57	0.63	-0.35
Stage 8	19.37	0.56	-0.35
Stage 8	19.17	0.49	-0.34
Stage 8	18.97	0.42	-0.33
Stage 8	18.77	0.36	-0.31
Stage 8	18.57	0.3	-0.29
Stage 8	18.37	0.25	-0.27
Stage 8	18.17	0.2	-0.24
Stage 8	17.97	0.16	-0.21
Stage 8	17.77	0.12	-0.19
Stage 8	17.57	0.09	-0.16
Stage 8	17.37	0.06	-0.14
Stage 8	17.17	0.04	-0.11
Stage 8	16.97	0.02	-0.09
Stage 8	16.77	0.01	-0.06
Stage 8	16.57	0	-0.04
Stage 8	16.37	0	-0.02
Stage 8	16.32	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	40.52	0	0
Stage 8	40.32	0	0
Stage 8	40.12	0	0
Stage 8	40.02	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 9

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 9	40.52	0
Stage 9	40.32	0
Stage 9	40.12	0
Stage 9	40.02	0
Stage 9	39.82	15.38
Stage 9	39.62	13.88
Stage 9	39.42	12.39
Stage 9	39.22	10.89
Stage 9	39.02	9.41
Stage 9	38.82	7.94
Stage 9	38.62	6.5
Stage 9	38.42	5.11
Stage 9	38.22	3.79
Stage 9	38.02	2.56
Stage 9	37.87	1.72
Stage 9	37.67	0.73
Stage 9	37.47	-0.15
Stage 9	37.27	-0.93
Stage 9	37.07	-1.64
Stage 9	36.87	-2.3
Stage 9	36.67	-2.91
Stage 9	36.47	-3.49
Stage 9	36.27	-4.03
Stage 9	36.07	-4.52
Stage 9	35.87	-4.95
Stage 9	35.67	-5.31
Stage 9	35.47	-5.57
Stage 9	35.37	-5.65
Stage 9	35.17	-5.72
Stage 9	34.97	-5.69
Stage 9	34.77	-5.58
Stage 9	34.57	-5.44
Stage 9	34.37	-5.27
Stage 9	34.17	-5.09
Stage 9	33.97	-4.91
Stage 9	33.77	-4.73
Stage 9	33.57	-4.55
Stage 9	33.37	-4.36
Stage 9	33.17	-4.14
Stage 9	32.97	-3.88
Stage 9	32.87	-3.72
Stage 9	32.67	-3.34
Stage 9	32.47	-2.9
Stage 9	32.27	-2.45
Stage 9	32.07	-2.01
Stage 9	31.87	-1.59
Stage 9	31.67	-1.23
Stage 9	31.47	-0.92
Stage 9	31.27	-0.67
Stage 9	31.07	-0.48
Stage 9	30.87	-0.33
Stage 9	30.67	-0.2
Stage 9	30.47	-0.08
Stage 9	30.37	-0.01
Stage 9	30.17	0.17
Stage 9	29.97	0.36
Stage 9	29.77	0.55
Stage 9	29.57	0.72
Stage 9	29.37	0.85
Stage 9	29.17	0.95
Stage 9	28.97	1.02
Stage 9	28.77	1.05
Stage 9	28.57	1.06
Stage 9	28.37	1.05
Stage 9	28.17	1.02
Stage 9	27.97	0.97
Stage 9	27.87	0.94

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 9	27.67	0.88
Stage 9	27.47	0.81
Stage 9	27.27	0.74
Stage 9	27.07	0.66
Stage 9	26.87	0.59
Stage 9	26.67	0.51
Stage 9	26.47	0.44
Stage 9	26.27	0.37
Stage 9	26.07	0.3
Stage 9	25.87	0.24
Stage 9	25.67	0.19
Stage 9	25.47	0.14
Stage 9	25.37	0.11
Stage 9	25.17	0.07
Stage 9	24.97	0.03
Stage 9	24.77	0
Stage 9	24.57	-0.03
Stage 9	24.37	-0.05
Stage 9	24.17	-0.07
Stage 9	23.97	-0.08
Stage 9	23.77	-0.09
Stage 9	23.57	-0.1
Stage 9	23.37	-0.11
Stage 9	23.17	-0.11
Stage 9	22.97	-0.11
Stage 9	22.77	-0.11
Stage 9	22.57	-0.1
Stage 9	22.37	-0.1
Stage 9	22.17	-0.09
Stage 9	21.97	-0.09
Stage 9	21.77	-0.08
Stage 9	21.57	-0.07
Stage 9	21.37	-0.07
Stage 9	21.17	-0.06
Stage 9	20.97	-0.05
Stage 9	20.77	-0.05
Stage 9	20.57	-0.04
Stage 9	20.37	-0.03
Stage 9	20.17	-0.03
Stage 9	19.97	-0.02
Stage 9	19.77	-0.02
Stage 9	19.57	-0.02
Stage 9	19.37	-0.01
Stage 9	19.17	-0.01
Stage 9	18.97	-0.01
Stage 9	18.77	0
Stage 9	18.57	0
Stage 9	18.37	0
Stage 9	18.17	0
Stage 9	17.97	0
Stage 9	17.77	0.01
Stage 9	17.57	0.01
Stage 9	17.37	0.01
Stage 9	17.17	0.01
Stage 9	16.97	0.01
Stage 9	16.77	0.01
Stage 9	16.57	0.01
Stage 9	16.37	0.01
Stage 9	16.32	0.01

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 9

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	40.02	0	0
Stage 9	39.82	0	0
Stage 9	39.82	0	0
Stage 9	39.62	-0.38	-1.9
Stage 9	39.42	-1.77	-6.97
Stage 9	39.22	-4.49	-13.6
Stage 9	39.02	-8.85	-21.77
Stage 9	38.82	-15.12	-31.38
Stage 9	38.62	-23.57	-42.23
Stage 9	38.42	-34.42	-54.28
Stage 9	38.22	-47.91	-67.4
Stage 9	38.02	-64.2	-81.46
Stage 9	37.87	-78.36	-94.4
Stage 9	37.67	-60.95	87.04
Stage 9	37.47	-46.61	71.72
Stage 9	37.27	-35.32	56.44
Stage 9	37.07	-27.05	41.34
Stage 9	36.87	-21.74	26.53
Stage 9	36.67	-19.34	12.01
Stage 9	36.47	-19.79	-2.22
Stage 9	36.27	-23.03	-16.21
Stage 9	36.07	-29.03	-30.02
Stage 9	35.87	-37.81	-43.89
Stage 9	35.67	-49.44	-58.18
Stage 9	35.47	-64.01	-72.84
Stage 9	35.37	-72.43	-84.2
Stage 9	35.17	-52.5	99.65
Stage 9	34.97	-35.69	84.08
Stage 9	34.77	-22	68.43
Stage 9	34.57	-11.43	52.84
Stage 9	34.37	-3.96	37.38
Stage 9	34.17	0.42	21.89
Stage 9	33.97	1.7	6.36
Stage 9	33.77	-0.15	-9.21
Stage 9	33.57	-5.11	-24.83
Stage 9	33.37	-13.21	-40.5
Stage 9	33.17	-24.45	-56.21
Stage 9	32.97	-38.86	-72.03
Stage 9	32.87	-47.26	-84
Stage 9	32.67	-26.57	103.46
Stage 9	32.47	-9.07	87.5
Stage 9	32.27	5.26	71.65
Stage 9	32.07	16.46	55.98
Stage 9	31.87	24.56	40.51
Stage 9	31.67	29.42	24.3
Stage 9	31.47	30.87	7.26
Stage 9	31.27	28.83	-10.2
Stage 9	31.07	23.2	-28.15
Stage 9	30.87	13.89	-46.56
Stage 9	30.67	0.81	-65.38
Stage 9	30.47	-16.1	-84.57
Stage 9	30.37	-26.01	-99.16
Stage 9	30.17	-9.39	83.13
Stage 9	29.97	3.3	63.44
Stage 9	29.77	12.04	43.7
Stage 9	29.57	16.85	24.07
Stage 9	29.37	18.34	7.43
Stage 9	29.17	17.55	-3.95
Stage 9	28.97	15.54	-10.03
Stage 9	28.77	13.4	-10.69
Stage 9	28.57	11.31	-10.46
Stage 9	28.37	9.33	-9.89
Stage 9	28.17	7.49	-9.22
Stage 9	27.97	5.79	-8.47
Stage 9	27.87	5.01	-7.86
Stage 9	27.67	3.56	-7.24
Stage 9	27.47	2.28	-6.4

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	27.27	1.17	-5.56
Stage 9	27.07	0.22	-4.74
Stage 9	26.87	-0.57	-3.96
Stage 9	26.67	-1.22	-3.22
Stage 9	26.47	-1.72	-2.54
Stage 9	26.27	-2.11	-1.93
Stage 9	26.07	-2.38	-1.37
Stage 9	25.87	-2.56	-0.89
Stage 9	25.67	-2.66	-0.5
Stage 9	25.47	-2.7	-0.2
Stage 9	25.37	-2.71	-0.02
Stage 9	25.17	-2.67	0.15
Stage 9	24.97	-2.6	0.35
Stage 9	24.77	-2.5	0.53
Stage 9	24.57	-2.37	0.67
Stage 9	24.37	-2.21	0.78
Stage 9	24.17	-2.04	0.86
Stage 9	23.97	-1.86	0.91
Stage 9	23.77	-1.67	0.94
Stage 9	23.57	-1.48	0.94
Stage 9	23.37	-1.3	0.93
Stage 9	23.17	-1.11	0.91
Stage 9	22.97	-0.94	0.87
Stage 9	22.77	-0.78	0.82
Stage 9	22.57	-0.63	0.76
Stage 9	22.37	-0.49	0.7
Stage 9	22.17	-0.36	0.64
Stage 9	21.97	-0.24	0.57
Stage 9	21.77	-0.14	0.5
Stage 9	21.57	-0.06	0.43
Stage 9	21.37	0.02	0.37
Stage 9	21.17	0.08	0.31
Stage 9	20.97	0.13	0.25
Stage 9	20.77	0.16	0.19
Stage 9	20.57	0.19	0.14
Stage 9	20.37	0.21	0.1
Stage 9	20.17	0.22	0.05
Stage 9	19.97	0.23	0.02
Stage 9	19.77	0.23	-0.01
Stage 9	19.57	0.22	-0.03
Stage 9	19.37	0.21	-0.05
Stage 9	19.17	0.2	-0.06
Stage 9	18.97	0.18	-0.07
Stage 9	18.77	0.17	-0.08
Stage 9	18.57	0.15	-0.09
Stage 9	18.37	0.13	-0.09
Stage 9	18.17	0.11	-0.09
Stage 9	17.97	0.09	-0.09
Stage 9	17.77	0.07	-0.09
Stage 9	17.57	0.06	-0.08
Stage 9	17.37	0.04	-0.08
Stage 9	17.17	0.03	-0.07
Stage 9	16.97	0.02	-0.06
Stage 9	16.77	0.01	-0.04
Stage 9	16.57	0	-0.03
Stage 9	16.37	0	-0.01
Stage 9	16.32	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	40.52	0	0
Stage 9	40.32	0	0
Stage 9	40.12	0	0
Stage 9	40.02	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 10

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 10	40.52 0
Stage 10	40.32 0
Stage 10	40.12 0
Stage 10	40.02 0
Stage 10	39.82 15.64
Stage 10	39.62 14.09
Stage 10	39.42 12.55
Stage 10	39.22 11.01
Stage 10	39.02 9.47
Stage 10	38.82 7.96
Stage 10	38.62 6.48
Stage 10	38.42 5.04
Stage 10	38.22 3.66
Stage 10	38.02 2.38
Stage 10	37.87 1.5
Stage 10	37.67 0.46
Stage 10	37.47 -0.48
Stage 10	37.27 -1.32
Stage 10	37.07 -2.09
Stage 10	36.87 -2.81
Stage 10	36.67 -3.48
Stage 10	36.47 -4.12
Stage 10	36.27 -4.72
Stage 10	36.07 -5.26
Stage 10	35.87 -5.75
Stage 10	35.67 -6.16
Stage 10	35.47 -6.46
Stage 10	35.37 -6.57
Stage 10	35.17 -6.67
Stage 10	34.97 -6.66
Stage 10	34.77 -6.56
Stage 10	34.57 -6.4
Stage 10	34.37 -6.19
Stage 10	34.17 -5.95
Stage 10	33.97 -5.68
Stage 10	33.77 -5.38
Stage 10	33.57 -5.05
Stage 10	33.37 -4.65
Stage 10	33.17 -4.19
Stage 10	32.97 -3.62
Stage 10	32.87 -3.29
Stage 10	32.67 -2.52
Stage 10	32.47 -1.64
Stage 10	32.27 -0.66
Stage 10	32.07 0.37
Stage 10	31.87 1.45
Stage 10	31.67 2.56
Stage 10	31.47 3.69
Stage 10	31.27 4.83
Stage 10	31.07 6.01
Stage 10	30.87 7.21
Stage 10	30.67 8.46
Stage 10	30.47 9.77
Stage 10	30.37 10.45
Stage 10	30.17 11.89
Stage 10	29.97 13.37
Stage 10	29.77 14.84
Stage 10	29.57 16.26
Stage 10	29.37 17.59
Stage 10	29.17 18.8
Stage 10	28.97 19.84
Stage 10	28.77 20.7
Stage 10	28.57 21.35
Stage 10	28.37 21.79
Stage 10	28.17 22
Stage 10	27.97 21.98
Stage 10	27.87 21.88

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 10	27.67 21.52
Stage 10	27.47 20.95
Stage 10	27.27 20.17
Stage 10	27.07 19.23
Stage 10	26.87 18.13
Stage 10	26.67 16.92
Stage 10	26.47 15.63
Stage 10	26.27 14.29
Stage 10	26.07 12.93
Stage 10	25.87 11.58
Stage 10	25.67 10.27
Stage 10	25.47 9
Stage 10	25.37 8.38
Stage 10	25.17 7.22
Stage 10	24.97 6.12
Stage 10	24.77 5.12
Stage 10	24.57 4.2
Stage 10	24.37 3.37
Stage 10	24.17 2.63
Stage 10	23.97 1.97
Stage 10	23.77 1.4
Stage 10	23.57 0.9
Stage 10	23.37 0.48
Stage 10	23.17 0.12
Stage 10	22.97 -0.17
Stage 10	22.77 -0.41
Stage 10	22.57 -0.61
Stage 10	22.37 -0.75
Stage 10	22.17 -0.86
Stage 10	21.97 -0.93
Stage 10	21.77 -0.98
Stage 10	21.57 -1
Stage 10	21.37 -1
Stage 10	21.17 -0.98
Stage 10	20.97 -0.95
Stage 10	20.77 -0.91
Stage 10	20.57 -0.86
Stage 10	20.37 -0.8
Stage 10	20.17 -0.74
Stage 10	19.97 -0.68
Stage 10	19.77 -0.62
Stage 10	19.57 -0.55
Stage 10	19.37 -0.49
Stage 10	19.17 -0.43
Stage 10	18.97 -0.37
Stage 10	18.77 -0.31
Stage 10	18.57 -0.26
Stage 10	18.37 -0.21
Stage 10	18.17 -0.16
Stage 10	17.97 -0.11
Stage 10	17.77 -0.06
Stage 10	17.57 -0.02
Stage 10	17.37 0.02
Stage 10	17.17 0.06
Stage 10	16.97 0.11
Stage 10	16.77 0.15
Stage 10	16.57 0.19
Stage 10	16.37 0.23
Stage 10	16.32 0.24

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 10

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	40.02	0	0
Stage 10	39.82	0	0
Stage 10	39.82	0	0
Stage 10	39.62	-0.34	-1.7
Stage 10	39.42	-1.66	-6.61
Stage 10	39.22	-4.28	-13.11
Stage 10	39.02	-8.52	-21.2
Stage 10	38.82	-14.67	-30.75
Stage 10	38.62	-22.99	-41.59
Stage 10	38.42	-33.72	-53.65
Stage 10	38.22	-47.09	-66.83
Stage 10	38.02	-63.28	-80.99
Stage 10	37.87	-77.39	-94.05
Stage 10	37.67	-60.02	86.86
Stage 10	37.47	-45.75	71.33
Stage 10	37.27	-34.59	55.79
Stage 10	37.07	-26.52	40.39
Stage 10	36.87	-21.47	25.23
Stage 10	36.67	-19.41	10.31
Stage 10	36.47	-20.28	-4.35
Stage 10	36.27	-24.04	-18.8
Stage 10	36.07	-30.66	-33.1
Stage 10	35.87	-40.15	-47.47
Stage 10	35.67	-52.61	-62.28
Stage 10	35.47	-68.1	-77.46
Stage 10	35.37	-77.02	-89.21
Stage 10	35.17	-58.5	92.59
Stage 10	34.97	-43.21	76.46
Stage 10	34.77	-31.16	60.23
Stage 10	34.57	-22.35	44.03
Stage 10	34.37	-16.76	27.95
Stage 10	34.17	-14.4	11.82
Stage 10	33.97	-15.27	-4.36
Stage 10	33.77	-19.38	-20.55
Stage 10	33.57	-26.72	-36.68
Stage 10	33.37	-37.26	-52.73
Stage 10	33.17	-51	-68.68
Stage 10	32.97	-67.91	-84.53
Stage 10	32.87	-77.54	-96.35
Stage 10	32.67	-59.1	92.21
Stage 10	32.47	-43.72	76.88
Stage 10	32.27	-31.32	62.03
Stage 10	32.07	-21.76	47.76
Stage 10	31.87	-14.94	34.14
Stage 10	31.67	-10.87	20.32
Stage 10	31.47	-9.61	6.32
Stage 10	31.27	-11.11	-7.53
Stage 10	31.07	-15.35	-21.17
Stage 10	30.87	-22.25	-34.5
Stage 10	30.67	-31.73	-47.42
Stage 10	30.47	-43.7	-59.82
Stage 10	30.37	-50.56	-68.63
Stage 10	30.17	-22.32	141.2
Stage 10	29.97	3.5	129.07
Stage 10	29.77	26.83	116.69
Stage 10	29.57	47.64	104.06
Stage 10	29.37	65.88	91.19
Stage 10	29.17	81.49	78.06
Stage 10	28.97	94.43	64.7
Stage 10	28.77	104.65	51.08
Stage 10	28.57	112.1	37.22
Stage 10	28.37	116.72	23.12
Stage 10	28.17	118.47	8.76
Stage 10	27.97	117.31	-5.84
Stage 10	27.87	115.61	-16.97
Stage 10	27.67	109.97	-28.2
Stage 10	27.47	101.29	-43.41

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	27.27	89.51	-58.87
Stage 10	27.07	75.08	-72.15
Stage 10	26.87	58.92	-80.82
Stage 10	26.67	41.94	-84.88
Stage 10	26.47	25.08	-84.32
Stage 10	26.27	9.25	-79.16
Stage 10	26.07	-4.63	-69.38
Stage 10	25.87	-16.27	-58.19
Stage 10	25.67	-25.72	-47.29
Stage 10	25.47	-33.06	-36.66
Stage 10	25.37	-35.99	-29.35
Stage 10	25.17	-40.5	-22.52
Stage 10	24.97	-43.43	-14.66
Stage 10	24.77	-45.02	-7.95
Stage 10	24.57	-45.48	-2.31
Stage 10	24.37	-45.01	2.34
Stage 10	24.17	-43.79	6.11
Stage 10	23.97	-41.98	9.07
Stage 10	23.77	-39.71	11.32
Stage 10	23.57	-37.12	12.95
Stage 10	23.37	-34.31	14.04
Stage 10	23.17	-31.38	14.67
Stage 10	22.97	-28.4	14.9
Stage 10	22.77	-25.45	14.77
Stage 10	22.57	-22.57	14.36
Stage 10	22.37	-19.82	13.77
Stage 10	22.17	-17.22	13.03
Stage 10	21.97	-14.78	12.19
Stage 10	21.77	-12.52	11.28
Stage 10	21.57	-10.46	10.33
Stage 10	21.37	-8.58	9.36
Stage 10	21.17	-6.9	8.4
Stage 10	20.97	-5.41	7.45
Stage 10	20.77	-4.1	6.54
Stage 10	20.57	-2.97	5.66
Stage 10	20.37	-2	4.84
Stage 10	20.17	-1.19	4.07
Stage 10	19.97	-0.52	3.35
Stage 10	19.77	0.02	2.7
Stage 10	19.57	0.44	2.11
Stage 10	19.37	0.76	1.58
Stage 10	19.17	0.98	1.11
Stage 10	18.97	1.12	0.69
Stage 10	18.77	1.19	0.34
Stage 10	18.57	1.19	0.03
Stage 10	18.37	1.15	-0.22
Stage 10	18.17	1.06	-0.42
Stage 10	17.97	0.95	-0.57
Stage 10	17.77	0.81	-0.68
Stage 10	17.57	0.66	-0.75
Stage 10	17.37	0.51	-0.77
Stage 10	17.17	0.36	-0.74
Stage 10	16.97	0.23	-0.67
Stage 10	16.77	0.12	-0.55
Stage 10	16.57	0.04	-0.39
Stage 10	16.37	0	-0.19
Stage 10	16.32	0	-0.03

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	40.52	0	0
Stage 10	40.32	0	0
Stage 10	40.12	0	0
Stage 10	40.02	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 11

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 11	40.52 0
Stage 11	40.32 0
Stage 11	40.12 0
Stage 11	40.02 0
Stage 11	39.82 15.49
Stage 11	39.62 13.97
Stage 11	39.42 12.45
Stage 11	39.22 10.93
Stage 11	39.02 9.42
Stage 11	38.82 7.92
Stage 11	38.62 6.46
Stage 11	38.42 5.05
Stage 11	38.22 3.7
Stage 11	38.02 2.44
Stage 11	37.87 1.58
Stage 11	37.67 0.56
Stage 11	37.47 -0.34
Stage 11	37.27 -1.15
Stage 11	37.07 -1.9
Stage 11	36.87 -2.58
Stage 11	36.67 -3.22
Stage 11	36.47 -3.83
Stage 11	36.27 -4.39
Stage 11	36.07 -4.9
Stage 11	35.87 -5.35
Stage 11	35.67 -5.73
Stage 11	35.47 -6
Stage 11	35.37 -6.08
Stage 11	35.17 -6.16
Stage 11	34.97 -6.12
Stage 11	34.77 -6
Stage 11	34.57 -5.82
Stage 11	34.37 -5.61
Stage 11	34.17 -5.38
Stage 11	33.97 -5.13
Stage 11	33.77 -4.87
Stage 11	33.57 -4.58
Stage 11	33.37 -4.27
Stage 11	33.17 -3.9
Stage 11	32.97 -3.46
Stage 11	32.87 -3.2
Stage 11	32.67 -2.61
Stage 11	32.47 -1.93
Stage 11	32.27 -1.2
Stage 11	32.07 -0.46
Stage 11	31.87 0.29
Stage 11	31.67 1.02
Stage 11	31.47 1.72
Stage 11	31.27 2.4
Stage 11	31.07 3.04
Stage 11	30.87 3.66
Stage 11	30.67 4.28
Stage 11	30.47 4.9
Stage 11	30.37 5.23
Stage 11	30.17 5.91
Stage 11	29.97 6.6
Stage 11	29.77 7.26
Stage 11	29.57 7.86
Stage 11	29.37 8.37
Stage 11	29.17 8.77
Stage 11	28.97 9.06
Stage 11	28.77 9.23
Stage 11	28.57 9.28
Stage 11	28.37 9.25
Stage 11	28.17 9.14
Stage 11	27.97 8.99
Stage 11	27.87 8.92

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 11	27.67 8.78
Stage 11	27.47 8.64
Stage 11	27.27 8.45
Stage 11	27.07 8.22
Stage 11	26.87 7.92
Stage 11	26.67 7.56
Stage 11	26.47 7.14
Stage 11	26.27 6.68
Stage 11	26.07 6.18
Stage 11	25.87 5.66
Stage 11	25.67 5.14
Stage 11	25.47 4.61
Stage 11	25.37 4.35
Stage 11	25.17 3.85
Stage 11	24.97 3.36
Stage 11	24.77 2.9
Stage 11	24.57 2.47
Stage 11	24.37 2.06
Stage 11	24.17 1.7
Stage 11	23.97 1.36
Stage 11	23.77 1.06
Stage 11	23.57 0.79
Stage 11	23.37 0.55
Stage 11	23.17 0.35
Stage 11	22.97 0.17
Stage 11	22.77 0.02
Stage 11	22.57 -0.11
Stage 11	22.37 -0.22
Stage 11	22.17 -0.3
Stage 11	21.97 -0.36
Stage 11	21.77 -0.41
Stage 11	21.57 -0.45
Stage 11	21.37 -0.47
Stage 11	21.17 -0.48
Stage 11	20.97 -0.48
Stage 11	20.77 -0.48
Stage 11	20.57 -0.46
Stage 11	20.37 -0.45
Stage 11	20.17 -0.42
Stage 11	19.97 -0.4
Stage 11	19.77 -0.37
Stage 11	19.57 -0.34
Stage 11	19.37 -0.31
Stage 11	19.17 -0.28
Stage 11	18.97 -0.25
Stage 11	18.77 -0.22
Stage 11	18.57 -0.19
Stage 11	18.37 -0.16
Stage 11	18.17 -0.13
Stage 11	17.97 -0.1
Stage 11	17.77 -0.07
Stage 11	17.57 -0.04
Stage 11	17.37 -0.02
Stage 11	17.17 0.01
Stage 11	16.97 0.04
Stage 11	16.77 0.06
Stage 11	16.57 0.09
Stage 11	16.37 0.12
Stage 11	16.32 0.12

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 11

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 11	40.02	0	0
Stage 11	39.82	0	0
Stage 11	39.82	0	0
Stage 11	39.62	-0.36	-1.81
Stage 11	39.42	-1.72	-6.81
Stage 11	39.22	-4.4	-13.4
Stage 11	39.02	-8.71	-21.54
Stage 11	38.82	-14.94	-31.14
Stage 11	38.62	-23.34	-42.01
Stage 11	38.42	-34.16	-54.08
Stage 11	38.22	-47.61	-67.26
Stage 11	38.02	-63.89	-81.39
Stage 11	37.87	-78.05	-94.41
Stage 11	37.67	-60.71	86.69
Stage 11	37.47	-46.46	71.24
Stage 11	37.27	-35.3	55.8
Stage 11	37.07	-27.19	40.53
Stage 11	36.87	-22.09	25.51
Stage 11	36.67	-19.94	10.78
Stage 11	36.47	-20.67	-3.68
Stage 11	36.27	-24.25	-17.9
Stage 11	36.07	-30.64	-31.94
Stage 11	35.87	-39.85	-46.03
Stage 11	35.67	-51.95	-60.52
Stage 11	35.47	-67.02	-75.36
Stage 11	35.37	-75.71	-86.84
Stage 11	35.17	-56.48	96.12
Stage 11	34.97	-40.4	80.4
Stage 11	34.77	-27.48	64.6
Stage 11	34.57	-17.71	48.84
Stage 11	34.37	-11.07	33.2
Stage 11	34.17	-7.57	17.52
Stage 11	33.97	-7.21	1.79
Stage 11	33.77	-10	-13.96
Stage 11	33.57	-15.94	-29.69
Stage 11	33.37	-25.02	-45.38
Stage 11	33.17	-37.22	-61.02
Stage 11	32.97	-52.55	-76.65
Stage 11	32.87	-61.39	-88.38
Stage 11	32.67	-41.31	100.4
Stage 11	32.47	-24.31	85.01
Stage 11	32.27	-10.32	69.92
Stage 11	32.07	0.72	55.23
Stage 11	31.87	8.92	40.97
Stage 11	31.67	14.16	26.23
Stage 11	31.47	16.37	11.04
Stage 11	31.27	15.5	-4.35
Stage 11	31.07	11.52	-19.9
Stage 11	30.87	4.41	-35.56
Stage 11	30.67	-5.84	-51.26
Stage 11	30.47	-19.23	-66.93
Stage 11	30.37	-27.09	-78.61
Stage 11	30.17	-3.63	117.27
Stage 11	29.97	16.46	100.46
Stage 11	29.77	33.01	82.77
Stage 11	29.57	45.85	64.21
Stage 11	29.37	54.8	44.75
Stage 11	29.17	59.74	24.68
Stage 11	28.97	60.56	4.1
Stage 11	28.77	57.16	-17.02
Stage 11	28.57	49.4	-38.76
Stage 11	28.37	37.19	-61.07
Stage 11	28.17	20.41	-83.9
Stage 11	27.97	-1.03	-107.18
Stage 11	27.87	-13.52	-124.91
Stage 11	27.67	5.2	93.61
Stage 11	27.47	19.13	69.65

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 11	27.27	28.26	45.61
Stage 11	27.07	32.59	21.67
Stage 11	26.87	32.56	-0.14
Stage 11	26.67	29.24	-16.61
Stage 11	26.47	23.69	-27.74
Stage 11	26.27	17.06	-33.16
Stage 11	26.07	10.48	-32.89
Stage 11	25.87	4.46	-30.12
Stage 11	25.67	-0.86	-26.6
Stage 11	25.47	-5.34	-22.38
Stage 11	25.37	-7.25	-19.17
Stage 11	25.17	-10.48	-16.11
Stage 11	24.97	-12.96	-12.44
Stage 11	24.77	-14.8	-9.18
Stage 11	24.57	-16.06	-6.32
Stage 11	24.37	-16.83	-3.83
Stage 11	24.17	-17.17	-1.69
Stage 11	23.97	-17.15	0.11
Stage 11	23.77	-16.83	1.6
Stage 11	23.57	-16.27	2.8
Stage 11	23.37	-15.52	3.75
Stage 11	23.17	-14.62	4.46
Stage 11	22.97	-13.64	4.93
Stage 11	22.77	-12.6	5.2
Stage 11	22.57	-11.53	5.33
Stage 11	22.37	-10.46	5.36
Stage 11	22.17	-9.4	5.29
Stage 11	21.97	-8.38	5.14
Stage 11	21.77	-7.39	4.94
Stage 11	21.57	-6.45	4.7
Stage 11	21.37	-5.56	4.41
Stage 11	21.17	-4.74	4.11
Stage 11	20.97	-3.99	3.78
Stage 11	20.77	-3.3	3.44
Stage 11	20.57	-2.68	3.1
Stage 11	20.37	-2.12	2.77
Stage 11	20.17	-1.64	2.44
Stage 11	19.97	-1.21	2.12
Stage 11	19.77	-0.85	1.81
Stage 11	19.57	-0.55	1.53
Stage 11	19.37	-0.29	1.26
Stage 11	19.17	-0.09	1.01
Stage 11	18.97	0.06	0.78
Stage 11	18.77	0.18	0.57
Stage 11	18.57	0.25	0.39
Stage 11	18.37	0.3	0.23
Stage 11	18.17	0.32	0.09
Stage 11	17.97	0.31	-0.03
Stage 11	17.77	0.29	-0.13
Stage 11	17.57	0.25	-0.2
Stage 11	17.37	0.2	-0.24
Stage 11	17.17	0.15	-0.26
Stage 11	16.97	0.1	-0.26
Stage 11	16.77	0.05	-0.22
Stage 11	16.57	0.02	-0.17
Stage 11	16.37	0	-0.08
Stage 11	16.32	0	-0.01

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 11	40.52	0	0
Stage 11	40.32	0	0
Stage 11	40.12	0	0
Stage 11	40.02	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 12

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 12	40.52 0
Stage 12	40.32 0
Stage 12	40.12 0
Stage 12	40.02 0
Stage 12	39.82 15.59
Stage 12	39.62 14.07
Stage 12	39.42 12.54
Stage 12	39.22 11.02
Stage 12	39.02 9.5
Stage 12	38.82 8.01
Stage 12	38.62 6.54
Stage 12	38.42 5.12
Stage 12	38.22 3.76
Stage 12	38.02 2.5
Stage 12	37.87 1.64
Stage 12	37.67 0.61
Stage 12	37.47 -0.31
Stage 12	37.27 -1.13
Stage 12	37.07 -1.89
Stage 12	36.87 -2.59
Stage 12	36.67 -3.26
Stage 12	36.47 -3.88
Stage 12	36.27 -4.47
Stage 12	36.07 -5.02
Stage 12	35.87 -5.5
Stage 12	35.67 -5.92
Stage 12	35.47 -6.24
Stage 12	35.37 -6.35
Stage 12	35.17 -6.47
Stage 12	34.97 -6.49
Stage 12	34.77 -6.44
Stage 12	34.57 -6.33
Stage 12	34.37 -6.19
Stage 12	34.17 -6.03
Stage 12	33.97 -5.86
Stage 12	33.77 -5.67
Stage 12	33.57 -5.46
Stage 12	33.37 -5.22
Stage 12	33.17 -4.93
Stage 12	32.97 -4.55
Stage 12	32.87 -4.33
Stage 12	32.67 -3.78
Stage 12	32.47 -3.15
Stage 12	32.27 -2.44
Stage 12	32.07 -1.7
Stage 12	31.87 -0.93
Stage 12	31.67 -0.14
Stage 12	31.47 0.65
Stage 12	31.27 1.46
Stage 12	31.07 2.29
Stage 12	30.87 3.15
Stage 12	30.67 4.07
Stage 12	30.47 5.07
Stage 12	30.37 5.61
Stage 12	30.17 6.79
Stage 12	29.97 8.06
Stage 12	29.77 9.39
Stage 12	29.57 10.75
Stage 12	29.37 12.13
Stage 12	29.17 13.52
Stage 12	28.97 14.9
Stage 12	28.77 16.27
Stage 12	28.57 17.65
Stage 12	28.37 19.05
Stage 12	28.17 20.48
Stage 12	27.97 21.96
Stage 12	27.87 22.74

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT	
Stage	Z (m)	Spostamento (mm)
Stage 12	27.67	24.36
Stage 12	27.47	26.02
Stage 12	27.27	27.66
Stage 12	27.07	29.22
Stage 12	26.87	30.65
Stage 12	26.67	31.91
Stage 12	26.47	32.96
Stage 12	26.27	33.78
Stage 12	26.07	34.33
Stage 12	25.87	34.59
Stage 12	25.67	34.57
Stage 12	25.47	34.25
Stage 12	25.37	33.98
Stage 12	25.17	33.23
Stage 12	24.97	32.2
Stage 12	24.77	30.92
Stage 12	24.57	29.4
Stage 12	24.37	27.7
Stage 12	24.17	25.84
Stage 12	23.97	23.87
Stage 12	23.77	21.82
Stage 12	23.57	19.75
Stage 12	23.37	17.68
Stage 12	23.17	15.66
Stage 12	22.97	13.72
Stage 12	22.77	11.86
Stage 12	22.57	10.12
Stage 12	22.37	8.51
Stage 12	22.17	7.03
Stage 12	21.97	5.69
Stage 12	21.77	4.48
Stage 12	21.57	3.41
Stage 12	21.37	2.47
Stage 12	21.17	1.65
Stage 12	20.97	0.95
Stage 12	20.77	0.36
Stage 12	20.57	-0.13
Stage 12	20.37	-0.53
Stage 12	20.17	-0.85
Stage 12	19.97	-1.1
Stage 12	19.77	-1.28
Stage 12	19.57	-1.41
Stage 12	19.37	-1.49
Stage 12	19.17	-1.52
Stage 12	18.97	-1.53
Stage 12	18.77	-1.5
Stage 12	18.57	-1.45
Stage 12	18.37	-1.38
Stage 12	18.17	-1.3
Stage 12	17.97	-1.2
Stage 12	17.77	-1.1
Stage 12	17.57	-0.99
Stage 12	17.37	-0.87
Stage 12	17.17	-0.76
Stage 12	16.97	-0.64
Stage 12	16.77	-0.52
Stage 12	16.57	-0.39
Stage 12	16.37	-0.27
Stage 12	16.32	-0.24

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 12

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 12	40.02	0	0
Stage 12	39.82	0	0
Stage 12	39.82	0	0
Stage 12	39.62	-0.35	-1.73
Stage 12	39.42	-1.68	-6.66
Stage 12	39.22	-4.31	-13.17
Stage 12	39.02	-8.56	-21.25
Stage 12	38.82	-14.72	-30.77
Stage 12	38.62	-23.03	-41.58
Stage 12	38.42	-33.75	-53.59
Stage 12	38.22	-47.09	-66.71
Stage 12	38.02	-63.25	-80.79
Stage 12	37.87	-77.31	-93.76
Stage 12	37.67	-59.82	87.47
Stage 12	37.47	-45.41	72.06
Stage 12	37.27	-34.08	56.65
Stage 12	37.07	-25.8	41.4
Stage 12	36.87	-20.52	26.39
Stage 12	36.67	-18.19	11.64
Stage 12	36.47	-18.76	-2.84
Stage 12	36.27	-22.18	-17.1
Stage 12	36.07	-28.42	-31.21
Stage 12	35.87	-37.5	-45.39
Stage 12	35.67	-49.5	-60
Stage 12	35.47	-64.5	-74.99
Stage 12	35.37	-73.16	-86.61
Stage 12	35.17	-54.02	95.72
Stage 12	34.97	-38.07	79.75
Stage 12	34.77	-25.34	63.65
Stage 12	34.57	-15.83	47.54
Stage 12	34.37	-9.53	31.51
Stage 12	34.17	-6.45	15.38
Stage 12	33.97	-6.61	-0.83
Stage 12	33.77	-10.04	-17.13
Stage 12	33.57	-16.74	-33.48
Stage 12	33.37	-26.71	-49.87
Stage 12	33.17	-39.96	-66.25
Stage 12	32.97	-56.5	-82.69
Stage 12	32.87	-66	-95.06
Stage 12	32.67	-47.84	90.84
Stage 12	32.47	-32.93	74.52
Stage 12	32.27	-21.24	58.48
Stage 12	32.07	-12.67	42.82
Stage 12	31.87	-7.16	27.58
Stage 12	31.67	-4.78	11.9
Stage 12	31.47	-5.62	-4.21
Stage 12	31.27	-9.71	-20.44
Stage 12	31.07	-17.05	-36.72
Stage 12	30.87	-27.64	-52.96
Stage 12	30.67	-41.45	-69.06
Stage 12	30.47	-58.43	-84.89
Stage 12	30.37	-68.08	-96.47
Stage 12	30.17	-47.99	100.43
Stage 12	29.97	-31.13	84.3
Stage 12	29.77	-17.58	67.76
Stage 12	29.57	-7.41	50.86
Stage 12	29.37	-0.68	33.66
Stage 12	29.17	2.63	16.54
Stage 12	28.97	2.57	-0.32
Stage 12	28.77	-0.8	-16.86
Stage 12	28.57	-7.42	-33.08
Stage 12	28.37	-17.19	-48.84
Stage 12	28.17	-29.98	-63.99
Stage 12	27.97	-45.7	-78.59
Stage 12	27.87	-54.67	-89.72
Stage 12	27.67	-19.95	173.61
Stage 12	27.47	11.73	158.39

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 12	27.27	40.31	142.93
Stage 12	27.07	65.76	127.22
Stage 12	26.87	88.01	111.27
Stage 12	26.67	107.03	95.07
Stage 12	26.47	122.75	78.62
Stage 12	26.27	135.14	61.93
Stage 12	26.07	144.13	44.99
Stage 12	25.87	149.69	27.8
Stage 12	25.67	151.77	10.37
Stage 12	25.47	150.3	-7.31
Stage 12	25.37	148.23	-20.76
Stage 12	25.17	141.37	-34.29
Stage 12	24.97	130.85	-52.59
Stage 12	24.77	116.63	-71.13
Stage 12	24.57	99.13	-87.49
Stage 12	24.37	79.28	-99.24
Stage 12	24.17	58.01	-106.37
Stage 12	23.97	36.23	-108.9
Stage 12	23.77	14.86	-106.81
Stage 12	23.57	-5.16	-100.12
Stage 12	23.37	-22.92	-88.81
Stage 12	23.17	-37.61	-73.46
Stage 12	22.97	-49.36	-58.73
Stage 12	22.77	-58.28	-44.6
Stage 12	22.57	-64.49	-31.04
Stage 12	22.37	-68.32	-19.19
Stage 12	22.17	-70.15	-9.15
Stage 12	21.97	-70.31	-0.78
Stage 12	21.77	-69.09	6.07
Stage 12	21.57	-66.79	11.55
Stage 12	21.37	-63.63	15.79
Stage 12	21.17	-59.83	18.96
Stage 12	20.97	-55.6	21.18
Stage 12	20.77	-51.08	22.58
Stage 12	20.57	-46.42	23.29
Stage 12	20.37	-41.74	23.41
Stage 12	20.17	-37.15	22.96
Stage 12	19.97	-32.73	22.11
Stage 12	19.77	-28.53	20.98
Stage 12	19.57	-24.6	19.64
Stage 12	19.37	-20.97	18.16
Stage 12	19.17	-17.65	16.59
Stage 12	18.97	-14.66	14.97
Stage 12	18.77	-11.99	13.35
Stage 12	18.57	-9.64	11.75
Stage 12	18.37	-7.59	10.2
Stage 12	18.17	-5.85	8.73
Stage 12	17.97	-4.38	7.34
Stage 12	17.77	-3.17	6.05
Stage 12	17.57	-2.2	4.87
Stage 12	17.37	-1.44	3.8
Stage 12	17.17	-0.87	2.86
Stage 12	16.97	-0.46	2.03
Stage 12	16.77	-0.2	1.32
Stage 12	16.57	-0.05	0.73
Stage 12	16.37	0	0.26
Stage 12	16.32	0	0.04

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 12	40.52	0	0
Stage 12	40.32	0	0
Stage 12	40.12	0	0
Stage 12	40.02	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 13

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 13	40.52 0
Stage 13	40.32 0
Stage 13	40.12 0
Stage 13	40.02 0
Stage 13	39.82 15.56
Stage 13	39.62 14.04
Stage 13	39.42 12.51
Stage 13	39.22 10.99
Stage 13	39.02 9.47
Stage 13	38.82 7.98
Stage 13	38.62 6.51
Stage 13	38.42 5.09
Stage 13	38.22 3.74
Stage 13	38.02 2.48
Stage 13	37.87 1.61
Stage 13	37.67 0.58
Stage 13	37.47 -0.33
Stage 13	37.27 -1.15
Stage 13	37.07 -1.9
Stage 13	36.87 -2.6
Stage 13	36.67 -3.26
Stage 13	36.47 -3.88
Stage 13	36.27 -4.46
Stage 13	36.07 -4.99
Stage 13	35.87 -5.47
Stage 13	35.67 -5.87
Stage 13	35.47 -6.17
Stage 13	35.37 -6.27
Stage 13	35.17 -6.38
Stage 13	34.97 -6.37
Stage 13	34.77 -6.29
Stage 13	34.57 -6.16
Stage 13	34.37 -5.99
Stage 13	34.17 -5.8
Stage 13	33.97 -5.6
Stage 13	33.77 -5.38
Stage 13	33.57 -5.14
Stage 13	33.37 -4.86
Stage 13	33.17 -4.53
Stage 13	32.97 -4.13
Stage 13	32.87 -3.88
Stage 13	32.67 -3.31
Stage 13	32.47 -2.65
Stage 13	32.27 -1.92
Stage 13	32.07 -1.16
Stage 13	31.87 -0.38
Stage 13	31.67 0.41
Stage 13	31.47 1.19
Stage 13	31.27 1.97
Stage 13	31.07 2.75
Stage 13	30.87 3.55
Stage 13	30.67 4.39
Stage 13	30.47 5.27
Stage 13	30.37 5.75
Stage 13	30.17 6.77
Stage 13	29.97 7.85
Stage 13	29.77 8.96
Stage 13	29.57 10.07
Stage 13	29.37 11.15
Stage 13	29.17 12.18
Stage 13	28.97 13.17
Stage 13	28.77 14.1
Stage 13	28.57 14.99
Stage 13	28.37 15.84
Stage 13	28.17 16.68
Stage 13	27.97 17.52
Stage 13	27.87 17.96

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 13	27.67 18.86
Stage 13	27.47 19.77
Stage 13	27.27 20.63
Stage 13	27.07 21.4
Stage 13	26.87 22.05
Stage 13	26.67 22.54
Stage 13	26.47 22.87
Stage 13	26.27 23.02
Stage 13	26.07 23
Stage 13	25.87 22.81
Stage 13	25.67 22.49
Stage 13	25.47 22.06
Stage 13	25.37 21.81
Stage 13	25.17 21.29
Stage 13	24.97 20.68
Stage 13	24.77 19.98
Stage 13	24.57 19.17
Stage 13	24.37 18.24
Stage 13	24.17 17.2
Stage 13	23.97 16.07
Stage 13	23.77 14.87
Stage 13	23.57 13.62
Stage 13	23.37 12.35
Stage 13	23.17 11.08
Stage 13	22.97 9.83
Stage 13	22.77 8.62
Stage 13	22.57 7.47
Stage 13	22.37 6.39
Stage 13	22.17 5.38
Stage 13	21.97 4.46
Stage 13	21.77 3.61
Stage 13	21.57 2.85
Stage 13	21.37 2.17
Stage 13	21.17 1.57
Stage 13	20.97 1.05
Stage 13	20.77 0.6
Stage 13	20.57 0.22
Stage 13	20.37 -0.1
Stage 13	20.17 -0.36
Stage 13	19.97 -0.57
Stage 13	19.77 -0.73
Stage 13	19.57 -0.86
Stage 13	19.37 -0.94
Stage 13	19.17 -1
Stage 13	18.97 -1.03
Stage 13	18.77 -1.03
Stage 13	18.57 -1.02
Stage 13	18.37 -0.99
Stage 13	18.17 -0.95
Stage 13	17.97 -0.9
Stage 13	17.77 -0.84
Stage 13	17.57 -0.77
Stage 13	17.37 -0.71
Stage 13	17.17 -0.63
Stage 13	16.97 -0.56
Stage 13	16.77 -0.49
Stage 13	16.57 -0.41
Stage 13	16.37 -0.34
Stage 13	16.32 -0.32

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 13

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 13	40.02	0	0
Stage 13	39.82	0	0
Stage 13	39.82	0	0
Stage 13	39.62	-0.35	-1.76
Stage 13	39.42	-1.69	-6.71
Stage 13	39.22	-4.34	-13.24
Stage 13	39.02	-8.61	-21.35
Stage 13	38.82	-14.79	-30.89
Stage 13	38.62	-23.13	-41.72
Stage 13	38.42	-33.89	-53.76
Stage 13	38.22	-47.27	-66.9
Stage 13	38.02	-63.47	-81.01
Stage 13	37.87	-77.57	-94
Stage 13	37.67	-60.13	87.17
Stage 13	37.47	-45.78	71.74
Stage 13	37.27	-34.52	56.31
Stage 13	37.07	-26.31	41.04
Stage 13	36.87	-21.11	26.02
Stage 13	36.67	-18.85	11.27
Stage 13	36.47	-19.5	-3.21
Stage 13	36.27	-22.99	-17.47
Stage 13	36.07	-29.31	-31.57
Stage 13	35.87	-38.45	-45.72
Stage 13	35.67	-50.51	-60.31
Stage 13	35.47	-65.56	-75.26
Stage 13	35.37	-74.25	-86.84
Stage 13	35.17	-55.11	95.68
Stage 13	34.97	-39.15	79.78
Stage 13	34.77	-26.4	63.78
Stage 13	34.57	-16.84	47.78
Stage 13	34.37	-10.46	31.89
Stage 13	34.17	-7.28	15.91
Stage 13	33.97	-7.31	-0.13
Stage 13	33.77	-10.55	-16.22
Stage 13	33.57	-17.02	-32.35
Stage 13	33.37	-26.72	-48.48
Stage 13	33.17	-39.64	-64.59
Stage 13	32.97	-55.78	-80.72
Stage 13	32.87	-65.06	-92.84
Stage 13	32.67	-46.22	94.19
Stage 13	32.47	-30.58	78.25
Stage 13	32.27	-18.06	62.6
Stage 13	32.07	-8.59	47.35
Stage 13	31.87	-2.08	32.54
Stage 13	31.67	1.38	17.28
Stage 13	31.47	1.7	1.6
Stage 13	31.27	-1.15	-14.21
Stage 13	31.07	-7.16	-30.09
Stage 13	30.87	-16.36	-45.97
Stage 13	30.67	-28.71	-61.76
Stage 13	30.47	-44.18	-77.35
Stage 13	30.37	-53.06	-88.81
Stage 13	30.17	-31.37	108.46
Stage 13	29.97	-12.91	92.32
Stage 13	29.77	2.22	75.61
Stage 13	29.57	13.89	58.38
Stage 13	29.37	22.02	40.65
Stage 13	29.17	26.57	22.76
Stage 13	28.97	27.54	4.85
Stage 13	28.77	24.94	-13.04
Stage 13	28.57	18.74	-30.96
Stage 13	28.37	8.98	-48.81
Stage 13	28.17	-4.31	-66.47
Stage 13	27.97	-21.12	-84.05
Stage 13	27.87	-30.9	-97.8
Stage 13	27.67	-1	149.5
Stage 13	27.47	24.99	129.97

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 13	27.27	46.91	109.62
Stage 13	27.07	64.6	88.4
Stage 13	26.87	77.86	66.32
Stage 13	26.67	86.54	43.38
Stage 13	26.47	90.46	19.6
Stage 13	26.27	89.5	-4.79
Stage 13	26.07	83.54	-29.79
Stage 13	25.87	72.47	-55.35
Stage 13	25.67	56.19	-81.41
Stage 13	25.47	34.61	-107.91
Stage 13	25.37	21.8	-128.04
Stage 13	25.17	39.42	88.08
Stage 13	24.97	51.6	60.91
Stage 13	24.77	58.33	33.64
Stage 13	24.57	59.61	6.38
Stage 13	24.37	55.72	-19.45
Stage 13	24.17	47.8	-39.6
Stage 13	23.97	36.99	-54.01
Stage 13	23.77	24.46	-62.65
Stage 13	23.57	11.36	-65.52
Stage 13	23.37	-1.17	-62.64
Stage 13	23.17	-12.1	-54.63
Stage 13	22.97	-21.34	-46.22
Stage 13	22.77	-28.83	-37.43
Stage 13	22.57	-34.49	-28.33
Stage 13	22.37	-38.52	-20.12
Stage 13	22.17	-41.12	-13
Stage 13	21.97	-42.49	-6.89
Stage 13	21.77	-42.84	-1.74
Stage 13	21.57	-42.33	2.54
Stage 13	21.37	-41.13	6.02
Stage 13	21.17	-39.37	8.78
Stage 13	20.97	-37.2	10.89
Stage 13	20.77	-34.71	12.41
Stage 13	20.57	-32.04	13.4
Stage 13	20.37	-29.25	13.93
Stage 13	20.17	-26.43	14.08
Stage 13	19.97	-23.65	13.91
Stage 13	19.77	-20.95	13.51
Stage 13	19.57	-18.36	12.93
Stage 13	19.37	-15.92	12.21
Stage 13	19.17	-13.64	11.38
Stage 13	18.97	-11.55	10.49
Stage 13	18.77	-9.63	9.56
Stage 13	18.57	-7.91	8.6
Stage 13	18.37	-6.38	7.65
Stage 13	18.17	-5.04	6.71
Stage 13	17.97	-3.88	5.8
Stage 13	17.77	-2.9	4.93
Stage 13	17.57	-2.07	4.1
Stage 13	17.37	-1.41	3.33
Stage 13	17.17	-0.89	2.62
Stage 13	16.97	-0.49	1.95
Stage 13	16.77	-0.22	1.35
Stage 13	16.57	-0.06	0.8
Stage 13	16.37	0	0.31
Stage 13	16.32	0	0.05

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 13	40.52	0	0
Stage 13	40.32	0	0
Stage 13	40.12	0	0
Stage 13	40.02	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 14

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 14	40.52 0
Stage 14	40.32 0
Stage 14	40.12 0
Stage 14	40.02 0
Stage 14	39.82 15.56
Stage 14	39.62 14.03
Stage 14	39.42 12.51
Stage 14	39.22 10.99
Stage 14	39.02 9.48
Stage 14	38.82 7.98
Stage 14	38.62 6.52
Stage 14	38.42 5.1
Stage 14	38.22 3.75
Stage 14	38.02 2.49
Stage 14	37.87 1.62
Stage 14	37.67 0.59
Stage 14	37.47 -0.31
Stage 14	37.27 -1.13
Stage 14	37.07 -1.88
Stage 14	36.87 -2.58
Stage 14	36.67 -3.24
Stage 14	36.47 -3.86
Stage 14	36.27 -4.44
Stage 14	36.07 -4.97
Stage 14	35.87 -5.45
Stage 14	35.67 -5.85
Stage 14	35.47 -6.15
Stage 14	35.37 -6.26
Stage 14	35.17 -6.36
Stage 14	34.97 -6.37
Stage 14	34.77 -6.29
Stage 14	34.57 -6.16
Stage 14	34.37 -6
Stage 14	34.17 -5.82
Stage 14	33.97 -5.63
Stage 14	33.77 -5.42
Stage 14	33.57 -5.19
Stage 14	33.37 -4.93
Stage 14	33.17 -4.61
Stage 14	32.97 -4.22
Stage 14	32.87 -3.99
Stage 14	32.67 -3.44
Stage 14	32.47 -2.79
Stage 14	32.27 -2.09
Stage 14	32.07 -1.35
Stage 14	31.87 -0.6
Stage 14	31.67 0.16
Stage 14	31.47 0.92
Stage 14	31.27 1.67
Stage 14	31.07 2.43
Stage 14	30.87 3.21
Stage 14	30.67 4.02
Stage 14	30.47 4.89
Stage 14	30.37 5.35
Stage 14	30.17 6.36
Stage 14	29.97 7.43
Stage 14	29.77 8.54
Stage 14	29.57 9.65
Stage 14	29.37 10.75
Stage 14	29.17 11.82
Stage 14	28.97 12.85
Stage 14	28.77 13.85
Stage 14	28.57 14.82
Stage 14	28.37 15.77
Stage 14	28.17 16.73
Stage 14	27.97 17.73
Stage 14	27.87 18.25

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 14	27.67 19.35
Stage 14	27.47 20.49
Stage 14	27.27 21.61
Stage 14	27.07 22.68
Stage 14	26.87 23.66
Stage 14	26.67 24.53
Stage 14	26.47 25.27
Stage 14	26.27 25.86
Stage 14	26.07 26.33
Stage 14	25.87 26.66
Stage 14	25.67 26.89
Stage 14	25.47 27.03
Stage 14	25.37 27.09
Stage 14	25.17 27.17
Stage 14	24.97 27.18
Stage 14	24.77 27.08
Stage 14	24.57 26.84
Stage 14	24.37 26.44
Stage 14	24.17 25.87
Stage 14	23.97 25.11
Stage 14	23.77 24.17
Stage 14	23.57 23.06
Stage 14	23.37 21.79
Stage 14	23.17 20.4
Stage 14	22.97 18.9
Stage 14	22.77 17.33
Stage 14	22.57 15.72
Stage 14	22.37 14.1
Stage 14	22.17 12.52
Stage 14	21.97 10.98
Stage 14	21.77 9.51
Stage 14	21.57 8.12
Stage 14	21.37 6.84
Stage 14	21.17 5.65
Stage 14	20.97 4.58
Stage 14	20.77 3.61
Stage 14	20.57 2.75
Stage 14	20.37 1.99
Stage 14	20.17 1.33
Stage 14	19.97 0.76
Stage 14	19.77 0.28
Stage 14	19.57 -0.12
Stage 14	19.37 -0.45
Stage 14	19.17 -0.71
Stage 14	18.97 -0.92
Stage 14	18.77 -1.08
Stage 14	18.57 -1.2
Stage 14	18.37 -1.28
Stage 14	18.17 -1.33
Stage 14	17.97 -1.35
Stage 14	17.77 -1.36
Stage 14	17.57 -1.35
Stage 14	17.37 -1.33
Stage 14	17.17 -1.3
Stage 14	16.97 -1.27
Stage 14	16.77 -1.24
Stage 14	16.57 -1.2
Stage 14	16.37 -1.16
Stage 14	16.32 -1.15

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 14

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 14	40.02	0	0
Stage 14	39.82	0	0
Stage 14	39.82	0	0
Stage 14	39.62	-0.35	-1.76
Stage 14	39.42	-1.69	-6.71
Stage 14	39.22	-4.34	-13.24
Stage 14	39.02	-8.61	-21.34
Stage 14	38.82	-14.79	-30.89
Stage 14	38.62	-23.13	-41.71
Stage 14	38.42	-33.88	-53.75
Stage 14	38.22	-47.26	-66.88
Stage 14	38.02	-63.46	-80.98
Stage 14	37.87	-77.55	-93.96
Stage 14	37.67	-60.1	87.24
Stage 14	37.47	-45.74	71.81
Stage 14	37.27	-34.46	56.4
Stage 14	37.07	-26.23	41.14
Stage 14	36.87	-21.01	26.13
Stage 14	36.67	-18.73	11.4
Stage 14	36.47	-19.34	-3.07
Stage 14	36.27	-22.8	-17.32
Stage 14	36.07	-29.08	-31.4
Stage 14	35.87	-38.19	-45.54
Stage 14	35.67	-50.21	-60.11
Stage 14	35.47	-65.22	-75.05
Stage 14	35.37	-73.88	-86.62
Stage 14	35.17	-54.7	95.93
Stage 14	34.97	-38.69	80.05
Stage 14	34.77	-25.88	64.05
Stage 14	34.57	-16.27	48.06
Stage 14	34.37	-9.83	32.16
Stage 14	34.17	-6.6	16.18
Stage 14	33.97	-6.57	0.12
Stage 14	33.77	-9.77	-15.99
Stage 14	33.57	-16.2	-32.15
Stage 14	33.37	-25.87	-48.32
Stage 14	33.17	-38.76	-64.47
Stage 14	32.97	-54.89	-80.66
Stage 14	32.87	-64.18	-92.84
Stage 14	32.67	-45.39	93.92
Stage 14	32.47	-29.81	77.88
Stage 14	32.27	-17.39	62.12
Stage 14	32.07	-8.04	46.74
Stage 14	31.87	-1.69	31.77
Stage 14	31.67	1.58	16.34
Stage 14	31.47	1.68	0.48
Stage 14	31.27	-1.43	-15.55
Stage 14	31.07	-7.76	-31.66
Stage 14	30.87	-17.32	-47.79
Stage 14	30.67	-30.09	-63.85
Stage 14	30.47	-46.04	-79.72
Stage 14	30.37	-55.18	-91.42
Stage 14	30.17	-34.22	104.8
Stage 14	29.97	-16.55	88.33
Stage 14	29.77	-2.29	71.3
Stage 14	29.57	8.45	53.73
Stage 14	29.37	15.59	35.68
Stage 14	29.17	19.08	17.48
Stage 14	28.97	18.94	-0.71
Stage 14	28.77	15.17	-18.86
Stage 14	28.57	7.77	-36.98
Stage 14	28.37	-3.22	-54.96
Stage 14	28.17	-17.76	-72.68
Stage 14	27.97	-35.8	-90.21
Stage 14	27.87	-46.18	-103.84
Stage 14	27.67	-17.29	144.45
Stage 14	27.47	7.77	125.31

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 14	27.27	28.87	105.52
Stage 14	27.07	45.89	85.08
Stage 14	26.87	58.69	64.01
Stage 14	26.67	67.16	42.33
Stage 14	26.47	71.18	20.12
Stage 14	26.27	70.7	-2.39
Stage 14	26.07	65.67	-25.16
Stage 14	25.87	56.05	-48.11
Stage 14	25.67	41.82	-71.16
Stage 14	25.47	22.97	-94.21
Stage 14	25.37	11.83	-111.42
Stage 14	25.17	36.47	123.19
Stage 14	24.97	56.6	100.63
Stage 14	24.77	72.29	78.45
Stage 14	24.57	83.64	56.74
Stage 14	24.37	90.78	35.7
Stage 14	24.17	93.86	15.44
Stage 14	23.97	93.05	-4.06
Stage 14	23.77	88.28	-23.84
Stage 14	23.57	79.51	-43.86
Stage 14	23.37	67.32	-60.97
Stage 14	23.17	52.63	-73.46
Stage 14	22.97	36.36	-81.35
Stage 14	22.77	19.43	-84.63
Stage 14	22.57	2.77	-83.29
Stage 14	22.37	-12.69	-77.34
Stage 14	22.17	-26.05	-66.78
Stage 14	21.97	-36.5	-52.24
Stage 14	21.77	-44.29	-38.94
Stage 14	21.57	-49.76	-27.34
Stage 14	21.37	-53.23	-17.36
Stage 14	21.17	-55.01	-8.9
Stage 14	20.97	-55.38	-1.84
Stage 14	20.77	-54.59	3.94
Stage 14	20.57	-52.87	8.57
Stage 14	20.37	-50.44	12.16
Stage 14	20.17	-47.48	14.84
Stage 14	19.97	-44.12	16.78
Stage 14	19.77	-40.5	18.1
Stage 14	19.57	-36.72	18.89
Stage 14	19.37	-32.88	19.23
Stage 14	19.17	-29.05	19.14
Stage 14	18.97	-25.32	18.66
Stage 14	18.77	-21.74	17.88
Stage 14	18.57	-18.37	16.86
Stage 14	18.37	-15.24	15.64
Stage 14	18.17	-12.38	14.29
Stage 14	17.97	-9.81	12.83
Stage 14	17.77	-7.55	11.34
Stage 14	17.57	-5.58	9.83
Stage 14	17.37	-3.92	8.32
Stage 14	17.17	-2.55	6.83
Stage 14	16.97	-1.48	5.34
Stage 14	16.77	-0.71	3.88
Stage 14	16.57	-0.22	2.45
Stage 14	16.37	-0.01	1.04
Stage 14	16.32	0	0.17

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 14	40.52	0	0
Stage 14	40.32	0	0
Stage 14	40.12	0	0
Stage 14	40.02	0	0

Risultati Elementi strutturali - SLE (Rara)

Design Assumption: SLE (Rara) Sollecitazione Tir-A1

Stage	Forza (kN/m)
Stage 3	200
Stage 4	201.5557
Stage 5	197.6817
Stage 6	197.5115
Stage 7	197.9127
Stage 8	197.1069
Stage 9	197.6752
Stage 10	197.2901
Stage 11	197.4265
Stage 12	197.5258
Stage 13	197.4786
Stage 14	197.4998

Design Assumption: SLE (Rara) Sollecitazione Tir-B1

Stage	Forza (kN/m)
Stage 5	200
Stage 6	203.6788
Stage 7	198.0598
Stage 8	198.0623
Stage 9	198.3811
Stage 10	196.6814
Stage 11	197.578
Stage 12	197.0892
Stage 13	197.2327
Stage 14	197.2592

Design Assumption: SLE (Rara) Sollecitazione Tir-C1

Stage	Forza (kN/m)
Stage 7	200
Stage 8	209.7723
Stage 9	202.5355
Stage 10	203.3972
Stage 11	203.5699
Stage 12	201.305
Stage 13	202.1955
Stage 14	201.9852

Design Assumption: SLE (Rara) Sollecitazione Tir-D1

Stage	Forza (kN/m)
Stage 9	200
Stage 10	222.1246
Stage 11	211.0758
Stage 12	211.8875
Stage 13	212.1766
Stage 14	211.3364

Design Assumption: SLE (Rara) Sollecitazione Tir-E1

Stage	Forza (kN/m)
Stage 11	240
Stage 12	278.7924
Stage 13	265.3614
Stage 14	266.1927

Design Assumption: SLE (Rara) Sollecitazione Tir-F1

Stage	Forza (kN/m)
Stage 13	240
Stage 14	255.6285

Risultati A1+M1+R1

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 1

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	40.02	0	0
Stage 1	39.82	0	0
Stage 1	39.62	0	0
Stage 1	39.42	0	0
Stage 1	39.22	0	0
Stage 1	39.02	0	0
Stage 1	38.82	0	0
Stage 1	38.62	0	0
Stage 1	38.42	0	0
Stage 1	38.22	0	0
Stage 1	38.02	0	0
Stage 1	37.87	0	0
Stage 1	37.67	0	0
Stage 1	37.47	0	0
Stage 1	37.27	0	0
Stage 1	37.07	0	0
Stage 1	36.87	0	0
Stage 1	36.67	0	0
Stage 1	36.47	0	0
Stage 1	36.27	0	0
Stage 1	36.07	0	0
Stage 1	35.87	0	0
Stage 1	35.67	0	0
Stage 1	35.47	0	0
Stage 1	35.37	0	0
Stage 1	35.17	0	0
Stage 1	34.97	0	0
Stage 1	34.77	0	0
Stage 1	34.57	0	0
Stage 1	34.37	0	0
Stage 1	34.17	0	0
Stage 1	33.97	0	0
Stage 1	33.77	0	0
Stage 1	33.57	0	0
Stage 1	33.37	0	0
Stage 1	33.17	0	0
Stage 1	32.97	0	0
Stage 1	32.87	0	0
Stage 1	32.67	0	0
Stage 1	32.47	0	0
Stage 1	32.27	0	0
Stage 1	32.07	0	0
Stage 1	31.87	0	0
Stage 1	31.67	0	0
Stage 1	31.47	0	0
Stage 1	31.27	0	0
Stage 1	31.07	0	0
Stage 1	30.87	0	0
Stage 1	30.67	0	0
Stage 1	30.47	0	0
Stage 1	30.37	0	0
Stage 1	30.17	0	0
Stage 1	29.97	0	0
Stage 1	29.77	0	0
Stage 1	29.57	0	0
Stage 1	29.37	0	0
Stage 1	29.17	0	0
Stage 1	28.97	0	0
Stage 1	28.77	0	0
Stage 1	28.57	0	0
Stage 1	28.37	0	0
Stage 1	28.17	0	0
Stage 1	27.97	0	0
Stage 1	27.87	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	27.67	0	0
Stage 1	27.47	0	0
Stage 1	27.27	0	0
Stage 1	27.07	0	0
Stage 1	26.87	0	0
Stage 1	26.67	0	0
Stage 1	26.47	0	0
Stage 1	26.27	0	0
Stage 1	26.07	0	0
Stage 1	25.87	0	0
Stage 1	25.67	0	0
Stage 1	25.47	0	0
Stage 1	25.37	0	0
Stage 1	25.17	0	0
Stage 1	24.97	0	0
Stage 1	24.77	0	0
Stage 1	24.57	0	0
Stage 1	24.37	0	0
Stage 1	24.17	0	0
Stage 1	23.97	0	0
Stage 1	23.77	0	0
Stage 1	23.57	0	0
Stage 1	23.37	0	0
Stage 1	23.17	0	0
Stage 1	22.97	0	0
Stage 1	22.77	0	0
Stage 1	22.57	0	0
Stage 1	22.37	0	0
Stage 1	22.17	0	0
Stage 1	21.97	0	0
Stage 1	21.77	0	0
Stage 1	21.57	0	0
Stage 1	21.37	0	0
Stage 1	21.17	0	0
Stage 1	20.97	0	0
Stage 1	20.77	0	0
Stage 1	20.57	0	0
Stage 1	20.37	0	0
Stage 1	20.17	0	0
Stage 1	19.97	0	0
Stage 1	19.77	0	0
Stage 1	19.57	0	0
Stage 1	19.37	0	0
Stage 1	19.17	0	0
Stage 1	18.97	0	0
Stage 1	18.77	0	0
Stage 1	18.57	0	0
Stage 1	18.37	0	0
Stage 1	18.17	0	0
Stage 1	17.97	0	0
Stage 1	17.77	0	0
Stage 1	17.57	0	0
Stage 1	17.37	0	0
Stage 1	17.17	0	0
Stage 1	16.97	0	0
Stage 1	16.77	0	0
Stage 1	16.57	0	0
Stage 1	16.37	0	0
Stage 1	16.32	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	40.52	0	0
Stage 1	40.32	0	0
Stage 1	40.12	0	0
Stage 1	40.02	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 2

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	40.02	0	0
Stage 2	39.82	0	0
Stage 2	39.82	0	0
Stage 2	39.62	-0.06	-0.32
Stage 2	39.42	-0.26	-0.96
Stage 2	39.22	-0.64	-1.92
Stage 2	39.02	-1.28	-3.2
Stage 2	38.82	-2.24	-4.8
Stage 2	38.62	-3.59	-6.73
Stage 2	38.42	-5.38	-8.97
Stage 2	38.22	-7.69	-11.53
Stage 2	38.02	-10.57	-14.41
Stage 2	37.87	-13.15	-17.22
Stage 2	37.67	-17.2	-20.23
Stage 2	37.47	-22	-23.99
Stage 2	37.27	-27.61	-28.08
Stage 2	37.07	-33.53	-29.58
Stage 2	36.87	-38.65	-25.59
Stage 2	36.67	-42.1	-17.27
Stage 2	36.47	-44.08	-9.9
Stage 2	36.27	-44.76	-3.4
Stage 2	36.07	-44.29	2.34
Stage 2	35.87	-42.8	7.45
Stage 2	35.67	-40.4	12.02
Stage 2	35.47	-37.17	16.16
Stage 2	35.37	-35.35	18.18
Stage 2	35.17	-31.41	19.7
Stage 2	34.97	-27.3	20.57
Stage 2	34.77	-23.21	20.46
Stage 2	34.57	-19.29	19.59
Stage 2	34.37	-15.66	18.15
Stage 2	34.17	-12.37	16.43
Stage 2	33.97	-9.46	14.54
Stage 2	33.77	-6.94	12.6
Stage 2	33.57	-4.8	10.7
Stage 2	33.37	-3.02	8.89
Stage 2	33.17	-1.58	7.22
Stage 2	32.97	-0.44	5.7
Stage 2	32.87	0.03	4.7
Stage 2	32.67	0.78	3.76
Stage 2	32.47	1.32	2.69
Stage 2	32.27	1.68	1.79
Stage 2	32.07	1.89	1.05
Stage 2	31.87	1.98	0.46
Stage 2	31.67	1.98	0
Stage 2	31.47	1.91	-0.35
Stage 2	31.27	1.79	-0.6
Stage 2	31.07	1.64	-0.77
Stage 2	30.87	1.46	-0.87
Stage 2	30.67	1.28	-0.92
Stage 2	30.47	1.09	-0.93
Stage 2	30.37	1	-0.91
Stage 2	30.17	0.83	-0.87
Stage 2	29.97	0.67	-0.81
Stage 2	29.77	0.52	-0.73
Stage 2	29.57	0.39	-0.64
Stage 2	29.37	0.28	-0.55
Stage 2	29.17	0.19	-0.46
Stage 2	28.97	0.12	-0.38
Stage 2	28.77	0.05	-0.3
Stage 2	28.57	0.01	-0.24
Stage 2	28.37	-0.03	-0.18
Stage 2	28.17	-0.05	-0.13
Stage 2	27.97	-0.07	-0.08
Stage 2	27.87	-0.08	-0.06
Stage 2	27.67	-0.08	-0.03
Stage 2	27.47	-0.09	-0.01

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	27.27	-0.08	0.01
Stage 2	27.07	-0.08	0.02
Stage 2	26.87	-0.07	0.03
Stage 2	26.67	-0.07	0.04
Stage 2	26.47	-0.06	0.04
Stage 2	26.27	-0.05	0.04
Stage 2	26.07	-0.04	0.04
Stage 2	25.87	-0.03	0.04
Stage 2	25.67	-0.03	0.03
Stage 2	25.47	-0.02	0.03
Stage 2	25.37	-0.02	0.03
Stage 2	25.17	-0.01	0.03
Stage 2	24.97	-0.01	0.02
Stage 2	24.77	-0.01	0.02
Stage 2	24.57	0	0.01
Stage 2	24.37	0	0.01
Stage 2	24.17	0	0.01
Stage 2	23.97	0	0.01
Stage 2	23.77	0	0
Stage 2	23.57	0	0
Stage 2	23.37	0	0
Stage 2	23.17	0	0
Stage 2	22.97	0	0
Stage 2	22.77	0	0
Stage 2	22.57	0	0
Stage 2	22.37	0	0
Stage 2	22.17	0	0
Stage 2	21.97	0	0
Stage 2	21.77	0	0
Stage 2	21.57	0	0
Stage 2	21.37	0	0
Stage 2	21.17	0	0
Stage 2	20.97	0	0
Stage 2	20.77	0	0
Stage 2	20.57	0	0
Stage 2	20.37	0	0
Stage 2	20.17	0	0
Stage 2	19.97	0	0
Stage 2	19.77	0	0
Stage 2	19.57	0	0
Stage 2	19.37	0	0
Stage 2	19.17	0	0
Stage 2	18.97	0	0
Stage 2	18.77	0	0
Stage 2	18.57	0	0
Stage 2	18.37	0	0
Stage 2	18.17	0	0
Stage 2	17.97	0	0
Stage 2	17.77	0	0
Stage 2	17.57	0	0
Stage 2	17.37	0	0
Stage 2	17.17	0	0
Stage 2	16.97	0	0
Stage 2	16.77	0	0
Stage 2	16.57	0	0
Stage 2	16.37	0	0
Stage 2	16.32	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	40.52	0	0
Stage 2	40.32	0	0
Stage 2	40.12	0	0
Stage 2	40.02	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 3

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	40.02	0	0
Stage 3	39.82	0	0
Stage 3	39.82	0	0
Stage 3	39.62	-1.26	-6.31
Stage 3	39.42	-4.26	-14.98
Stage 3	39.22	-9.27	-25.08
Stage 3	39.02	-16.59	-36.58
Stage 3	38.82	-26.48	-49.45
Stage 3	38.62	-39.2	-63.62
Stage 3	38.42	-55	-78.98
Stage 3	38.22	-74.08	-95.38
Stage 3	38.02	-96.6	-112.59
Stage 3	37.87	-115.81	-128.11
Stage 3	37.67	-93.36	112.29
Stage 3	37.47	-74.44	94.57
Stage 3	37.27	-58.97	77.35
Stage 3	37.07	-46.77	60.99
Stage 3	36.87	-37.63	45.74
Stage 3	36.67	-30.34	36.44
Stage 3	36.47	-24.61	28.62
Stage 3	36.27	-20.16	22.26
Stage 3	36.07	-16.7	17.33
Stage 3	35.87	-13.95	13.73
Stage 3	35.67	-11.68	11.35
Stage 3	35.47	-9.67	10.04
Stage 3	35.37	-8.75	9.18
Stage 3	35.17	-7.09	8.33
Stage 3	34.97	-5.62	7.31
Stage 3	34.77	-4.35	6.35
Stage 3	34.57	-3.27	5.41
Stage 3	34.37	-2.37	4.5
Stage 3	34.17	-1.63	3.7
Stage 3	33.97	-1.03	3.02
Stage 3	33.77	-0.54	2.42
Stage 3	33.57	-0.16	1.92
Stage 3	33.37	0.14	1.49
Stage 3	33.17	0.36	1.13
Stage 3	32.97	0.53	0.83
Stage 3	32.87	0.59	0.65
Stage 3	32.67	0.69	0.48
Stage 3	32.47	0.75	0.29
Stage 3	32.27	0.77	0.14
Stage 3	32.07	0.78	0.01
Stage 3	31.87	0.76	-0.08
Stage 3	31.67	0.73	-0.16
Stage 3	31.47	0.69	-0.21
Stage 3	31.27	0.64	-0.25
Stage 3	31.07	0.58	-0.28
Stage 3	30.87	0.52	-0.3
Stage 3	30.67	0.46	-0.31
Stage 3	30.47	0.4	-0.31
Stage 3	30.37	0.37	-0.31
Stage 3	30.17	0.31	-0.3
Stage 3	29.97	0.25	-0.28
Stage 3	29.77	0.2	-0.25
Stage 3	29.57	0.15	-0.23
Stage 3	29.37	0.11	-0.2
Stage 3	29.17	0.08	-0.17
Stage 3	28.97	0.05	-0.14
Stage 3	28.77	0.03	-0.12
Stage 3	28.57	0.01	-0.09
Stage 3	28.37	0	-0.07
Stage 3	28.17	-0.01	-0.05
Stage 3	27.97	-0.02	-0.04
Stage 3	27.87	-0.03	-0.03
Stage 3	27.67	-0.03	-0.02
Stage 3	27.47	-0.03	-0.01

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	27.27	-0.03	0
Stage 3	27.07	-0.03	0
Stage 3	26.87	-0.03	0.01
Stage 3	26.67	-0.03	0.01
Stage 3	26.47	-0.03	0.01
Stage 3	26.27	-0.02	0.01
Stage 3	26.07	-0.02	0.01
Stage 3	25.87	-0.02	0.01
Stage 3	25.67	-0.01	0.01
Stage 3	25.47	-0.01	0.01
Stage 3	25.37	-0.01	0.01
Stage 3	25.17	-0.01	0.01
Stage 3	24.97	-0.01	0.01
Stage 3	24.77	0	0.01
Stage 3	24.57	0	0.01
Stage 3	24.37	0	0.01
Stage 3	24.17	0	0.01
Stage 3	23.97	0	0
Stage 3	23.77	0	0
Stage 3	23.57	0	0
Stage 3	23.37	0	0
Stage 3	23.17	0	0
Stage 3	22.97	0	0
Stage 3	22.77	0	0
Stage 3	22.57	0	0
Stage 3	22.37	0	0
Stage 3	22.17	0	0
Stage 3	21.97	0	0
Stage 3	21.77	0	0
Stage 3	21.57	0	0
Stage 3	21.37	0	0
Stage 3	21.17	0	0
Stage 3	20.97	0	0
Stage 3	20.77	0	0
Stage 3	20.57	0	0
Stage 3	20.37	0	0
Stage 3	20.17	0	0
Stage 3	19.97	0	0
Stage 3	19.77	0	0
Stage 3	19.57	0	0
Stage 3	19.37	0	0
Stage 3	19.17	0	0
Stage 3	18.97	0	0
Stage 3	18.77	0	0
Stage 3	18.57	0	0
Stage 3	18.37	0	0
Stage 3	18.17	0	0
Stage 3	17.97	0	0
Stage 3	17.77	0	0
Stage 3	17.57	0	0
Stage 3	17.37	0	0
Stage 3	17.17	0	0
Stage 3	16.97	0	0
Stage 3	16.77	0	0
Stage 3	16.57	0	0
Stage 3	16.37	0	0
Stage 3	16.32	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	40.52	0	0
Stage 3	40.32	0	0
Stage 3	40.12	0	0
Stage 3	40.02	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 4

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	40.02	0	0
Stage 4	39.82	0	0
Stage 4	39.82	0	0
Stage 4	39.62	-1.26	-6.31
Stage 4	39.42	-4.45	-15.92
Stage 4	39.22	-9.79	-26.7
Stage 4	39.02	-17.52	-38.65
Stage 4	38.82	-27.86	-51.71
Stage 4	38.62	-41.02	-65.79
Stage 4	38.42	-57.15	-80.65
Stage 4	38.22	-76.37	-96.13
Stage 4	38.02	-98.77	-112
Stage 4	37.87	-117.67	-125.97
Stage 4	37.67	-94.02	118.25
Stage 4	37.47	-73.4	103.07
Stage 4	37.27	-55.64	88.83
Stage 4	37.07	-40.48	75.76
Stage 4	36.87	-27.69	63.99
Stage 4	36.67	-16.97	53.56
Stage 4	36.47	-8.09	44.43
Stage 4	36.27	-0.79	36.5
Stage 4	36.07	5.14	29.62
Stage 4	35.87	9.79	23.3
Stage 4	35.67	13.12	16.65
Stage 4	35.47	15.06	9.68
Stage 4	35.37	15.48	4.22
Stage 4	35.17	15.21	-1.37
Stage 4	34.97	13.38	-9.14
Stage 4	34.77	9.94	-17.23
Stage 4	34.57	5.44	-22.48
Stage 4	34.37	1.1	-21.68
Stage 4	34.17	-2.32	-17.15
Stage 4	33.97	-4.95	-13.11
Stage 4	33.77	-6.86	-9.57
Stage 4	33.57	-8.16	-6.52
Stage 4	33.37	-8.95	-3.94
Stage 4	33.17	-9.31	-1.81
Stage 4	32.97	-9.33	-0.09
Stage 4	32.87	-9.24	0.92
Stage 4	32.67	-8.88	1.8
Stage 4	32.47	-8.35	2.67
Stage 4	32.27	-7.69	3.27
Stage 4	32.07	-6.96	3.65
Stage 4	31.87	-6.19	3.84
Stage 4	31.67	-5.42	3.86
Stage 4	31.47	-4.67	3.75
Stage 4	31.27	-3.97	3.53
Stage 4	31.07	-3.31	3.27
Stage 4	30.87	-2.71	2.99
Stage 4	30.67	-2.18	2.69
Stage 4	30.47	-1.7	2.39
Stage 4	30.37	-1.48	2.16
Stage 4	30.17	-1.09	1.95
Stage 4	29.97	-0.76	1.67
Stage 4	29.77	-0.48	1.41
Stage 4	29.57	-0.24	1.17
Stage 4	29.37	-0.06	0.95
Stage 4	29.17	0.09	0.75
Stage 4	28.97	0.21	0.58
Stage 4	28.77	0.3	0.43
Stage 4	28.57	0.35	0.3
Stage 4	28.37	0.39	0.19
Stage 4	28.17	0.41	0.1
Stage 4	27.97	0.42	0.02
Stage 4	27.87	0.41	-0.02
Stage 4	27.67	0.4	-0.06
Stage 4	27.47	0.38	-0.1

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	27.27	0.36	-0.13
Stage 4	27.07	0.33	-0.15
Stage 4	26.87	0.3	-0.16
Stage 4	26.67	0.26	-0.16
Stage 4	26.47	0.23	-0.16
Stage 4	26.27	0.2	-0.16
Stage 4	26.07	0.17	-0.15
Stage 4	25.87	0.14	-0.14
Stage 4	25.67	0.11	-0.13
Stage 4	25.47	0.09	-0.12
Stage 4	25.37	0.08	-0.11
Stage 4	25.17	0.06	-0.1
Stage 4	24.97	0.04	-0.08
Stage 4	24.77	0.03	-0.07
Stage 4	24.57	0.02	-0.06
Stage 4	24.37	0.01	-0.05
Stage 4	24.17	0	-0.04
Stage 4	23.97	-0.01	-0.03
Stage 4	23.77	-0.01	-0.02
Stage 4	23.57	-0.01	-0.02
Stage 4	23.37	-0.02	-0.01
Stage 4	23.17	-0.02	-0.01
Stage 4	22.97	-0.02	0
Stage 4	22.77	-0.02	0
Stage 4	22.57	-0.02	0
Stage 4	22.37	-0.02	0
Stage 4	22.17	-0.01	0.01
Stage 4	21.97	-0.01	0.01
Stage 4	21.77	-0.01	0.01
Stage 4	21.57	-0.01	0.01
Stage 4	21.37	-0.01	0.01
Stage 4	21.17	-0.01	0.01
Stage 4	20.97	-0.01	0.01
Stage 4	20.77	-0.01	0.01
Stage 4	20.57	0	0.01
Stage 4	20.37	0	0
Stage 4	20.17	0	0
Stage 4	19.97	0	0
Stage 4	19.77	0	0
Stage 4	19.57	0	0
Stage 4	19.37	0	0
Stage 4	19.17	0	0
Stage 4	18.97	0	0
Stage 4	18.77	0	0
Stage 4	18.57	0	0
Stage 4	18.37	0	0
Stage 4	18.17	0	0
Stage 4	17.97	0	0
Stage 4	17.77	0	0
Stage 4	17.57	0	0
Stage 4	17.37	0	0
Stage 4	17.17	0	0
Stage 4	16.97	0	0
Stage 4	16.77	0	0
Stage 4	16.57	0	0
Stage 4	16.37	0	0
Stage 4	16.32	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	40.52	0	0
Stage 4	40.32	0	0
Stage 4	40.12	0	0
Stage 4	40.02	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 5

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	40.02	0	0
Stage 5	39.82	0	0
Stage 5	39.82	0	0
Stage 5	39.62	-0.54	-2.69
Stage 5	39.42	-2.44	-9.5
Stage 5	39.22	-6.1	-18.32
Stage 5	39.02	-11.93	-29.14
Stage 5	38.82	-20.32	-41.93
Stage 5	38.62	-31.6	-56.42
Stage 5	38.42	-46.08	-72.4
Stage 5	38.22	-64.03	-89.75
Stage 5	38.02	-85.68	-108.25
Stage 5	37.87	-104.47	-125.23
Stage 5	37.67	-82.37	110.5
Stage 5	37.47	-64.28	90.42
Stage 5	37.27	-50.2	70.4
Stage 5	37.07	-40.07	50.66
Stage 5	36.87	-33.8	31.32
Stage 5	36.67	-31.32	12.41
Stage 5	36.47	-32.54	-6.07
Stage 5	36.27	-37.37	-24.16
Stage 5	36.07	-45.75	-41.93
Stage 5	35.87	-57.69	-59.66
Stage 5	35.67	-73.25	-77.82
Stage 5	35.47	-92.51	-96.3
Stage 5	35.37	-103.56	-110.51
Stage 5	35.17	-77.32	131.2
Stage 5	34.97	-54.93	111.93
Stage 5	34.77	-36.39	92.72
Stage 5	34.57	-21.62	73.85
Stage 5	34.37	-10.16	57.3
Stage 5	34.17	-0.93	46.12
Stage 5	33.97	6.29	36.13
Stage 5	33.77	11.76	27.35
Stage 5	33.57	15.71	19.75
Stage 5	33.37	18.37	13.28
Stage 5	33.17	19.94	7.87
Stage 5	32.97	20.63	3.42
Stage 5	32.87	20.7	0.74
Stage 5	32.67	20.38	-1.63
Stage 5	32.47	19.56	-4.07
Stage 5	32.27	18.39	-5.86
Stage 5	32.07	16.97	-7.12
Stage 5	31.87	15.38	-7.92
Stage 5	31.67	13.71	-8.36
Stage 5	31.47	12.02	-8.45
Stage 5	31.27	10.36	-8.3
Stage 5	31.07	8.78	-7.93
Stage 5	30.87	7.29	-7.42
Stage 5	30.67	5.93	-6.8
Stage 5	30.47	4.71	-6.13
Stage 5	30.37	4.15	-5.6
Stage 5	30.17	3.13	-5.07
Stage 5	29.97	2.26	-4.38
Stage 5	29.77	1.51	-3.71
Stage 5	29.57	0.9	-3.09
Stage 5	29.37	0.39	-2.52
Stage 5	29.17	-0.01	-2
Stage 5	28.97	-0.31	-1.54
Stage 5	28.77	-0.54	-1.14
Stage 5	28.57	-0.7	-0.8
Stage 5	28.37	-0.81	-0.51
Stage 5	28.17	-0.86	-0.28
Stage 5	27.97	-0.88	-0.09
Stage 5	27.87	-0.88	0.03
Stage 5	27.67	-0.85	0.13
Stage 5	27.47	-0.81	0.22

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	27.27	-0.75	0.29
Stage 5	27.07	-0.68	0.33
Stage 5	26.87	-0.61	0.36
Stage 5	26.67	-0.54	0.36
Stage 5	26.47	-0.47	0.36
Stage 5	26.27	-0.4	0.34
Stage 5	26.07	-0.33	0.32
Stage 5	25.87	-0.27	0.3
Stage 5	25.67	-0.22	0.27
Stage 5	25.47	-0.17	0.24
Stage 5	25.37	-0.15	0.22
Stage 5	25.17	-0.11	0.2
Stage 5	24.97	-0.08	0.17
Stage 5	24.77	-0.05	0.14
Stage 5	24.57	-0.03	0.12
Stage 5	24.37	-0.01	0.1
Stage 5	24.17	0.01	0.08
Stage 5	23.97	0.02	0.06
Stage 5	23.77	0.03	0.04
Stage 5	23.57	0.03	0.03
Stage 5	23.37	0.04	0.02
Stage 5	23.17	0.04	0.01
Stage 5	22.97	0.04	0
Stage 5	22.77	0.04	0
Stage 5	22.57	0.04	-0.01
Stage 5	22.37	0.04	-0.01
Stage 5	22.17	0.03	-0.01
Stage 5	21.97	0.03	-0.02
Stage 5	21.77	0.03	-0.02
Stage 5	21.57	0.02	-0.02
Stage 5	21.37	0.02	-0.02
Stage 5	21.17	0.02	-0.02
Stage 5	20.97	0.01	-0.01
Stage 5	20.77	0.01	-0.01
Stage 5	20.57	0.01	-0.01
Stage 5	20.37	0.01	-0.01
Stage 5	20.17	0	-0.01
Stage 5	19.97	0	-0.01
Stage 5	19.77	0	-0.01
Stage 5	19.57	0	0
Stage 5	19.37	0	0
Stage 5	19.17	0	0
Stage 5	18.97	0	0
Stage 5	18.77	0	0
Stage 5	18.57	0	0
Stage 5	18.37	0	0
Stage 5	18.17	0	0
Stage 5	17.97	0	0
Stage 5	17.77	0	0
Stage 5	17.57	0	0
Stage 5	17.37	0	0
Stage 5	17.17	0	0
Stage 5	16.97	0	0
Stage 5	16.77	0	0
Stage 5	16.57	0	0
Stage 5	16.37	0	0
Stage 5	16.32	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	40.52	0	0
Stage 5	40.32	0	0
Stage 5	40.12	0	0
Stage 5	40.02	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 6

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	40.02	0	0
Stage 6	39.82	0	0
Stage 6	39.82	0	0
Stage 6	39.62	-0.71	-3.54
Stage 6	39.42	-2.94	-11.15
Stage 6	39.22	-7.08	-20.72
Stage 6	39.02	-13.53	-32.22
Stage 6	38.82	-22.63	-45.51
Stage 6	38.62	-34.7	-60.35
Stage 6	38.42	-50.03	-76.64
Stage 6	38.22	-68.88	-94.25
Stage 6	38.02	-91.47	-112.96
Stage 6	37.87	-110.98	-130.06
Stage 6	37.67	-89.9	105.36
Stage 6	37.47	-72.85	85.26
Stage 6	37.27	-59.78	65.36
Stage 6	37.07	-50.6	45.89
Stage 6	36.87	-45.2	27
Stage 6	36.67	-43.45	8.77
Stage 6	36.47	-45.21	-8.8
Stage 6	36.27	-50.35	-25.71
Stage 6	36.07	-58.75	-42.01
Stage 6	35.87	-70.34	-57.93
Stage 6	35.67	-85.13	-73.92
Stage 6	35.47	-103.09	-89.84
Stage 6	35.37	-113.27	-101.82
Stage 6	35.17	-83.87	147
Stage 6	34.97	-57.6	131.39
Stage 6	34.77	-34.33	116.31
Stage 6	34.57	-13.95	101.93
Stage 6	34.37	3.73	88.38
Stage 6	34.17	18.81	75.42
Stage 6	33.97	31.41	63
Stage 6	33.77	41.63	51.09
Stage 6	33.57	49.55	39.61
Stage 6	33.37	55.25	28.47
Stage 6	33.17	58.76	17.55
Stage 6	32.97	60.07	6.58
Stage 6	32.87	59.89	-1.89
Stage 6	32.67	57.79	-10.48
Stage 6	32.47	53.34	-22.25
Stage 6	32.27	46.47	-34.34
Stage 6	32.07	37.75	-43.6
Stage 6	31.87	28.37	-46.9
Stage 6	31.67	19.45	-44.6
Stage 6	31.47	11.86	-37.98
Stage 6	31.27	5.49	-31.82
Stage 6	31.07	0.27	-26.12
Stage 6	30.87	-3.92	-20.95
Stage 6	30.67	-7.18	-16.3
Stage 6	30.47	-9.62	-12.19
Stage 6	30.37	-10.57	-9.51
Stage 6	30.17	-11.98	-7.02
Stage 6	29.97	-12.81	-4.19
Stage 6	29.77	-13.18	-1.84
Stage 6	29.57	-13.16	0.1
Stage 6	29.37	-12.83	1.64
Stage 6	29.17	-12.27	2.83
Stage 6	28.97	-11.52	3.72
Stage 6	28.77	-10.65	4.34
Stage 6	28.57	-9.71	4.73
Stage 6	28.37	-8.73	4.91
Stage 6	28.17	-7.74	4.92
Stage 6	27.97	-6.78	4.81
Stage 6	27.87	-6.31	4.66
Stage 6	27.67	-5.42	4.48
Stage 6	27.47	-4.58	4.19

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	27.27	-3.81	3.87
Stage 6	27.07	-3.1	3.53
Stage 6	26.87	-2.46	3.18
Stage 6	26.67	-1.9	2.83
Stage 6	26.47	-1.4	2.48
Stage 6	26.27	-0.97	2.15
Stage 6	26.07	-0.61	1.83
Stage 6	25.87	-0.3	1.54
Stage 6	25.67	-0.04	1.27
Stage 6	25.47	0.16	1.03
Stage 6	25.37	0.25	0.86
Stage 6	25.17	0.39	0.71
Stage 6	24.97	0.49	0.52
Stage 6	24.77	0.57	0.37
Stage 6	24.57	0.61	0.23
Stage 6	24.37	0.64	0.12
Stage 6	24.17	0.64	0.02
Stage 6	23.97	0.63	-0.05
Stage 6	23.77	0.61	-0.11
Stage 6	23.57	0.58	-0.16
Stage 6	23.37	0.54	-0.19
Stage 6	23.17	0.5	-0.21
Stage 6	22.97	0.45	-0.23
Stage 6	22.77	0.4	-0.23
Stage 6	22.57	0.36	-0.23
Stage 6	22.37	0.31	-0.23
Stage 6	22.17	0.27	-0.22
Stage 6	21.97	0.23	-0.2
Stage 6	21.77	0.19	-0.19
Stage 6	21.57	0.15	-0.17
Stage 6	21.37	0.12	-0.16
Stage 6	21.17	0.1	-0.14
Stage 6	20.97	0.07	-0.12
Stage 6	20.77	0.05	-0.1
Stage 6	20.57	0.03	-0.09
Stage 6	20.37	0.02	-0.07
Stage 6	20.17	0.01	-0.06
Stage 6	19.97	0	-0.05
Stage 6	19.77	-0.01	-0.04
Stage 6	19.57	-0.02	-0.03
Stage 6	19.37	-0.02	-0.02
Stage 6	19.17	-0.02	-0.01
Stage 6	18.97	-0.02	0
Stage 6	18.77	-0.02	0
Stage 6	18.57	-0.02	0
Stage 6	18.37	-0.02	0.01
Stage 6	18.17	-0.02	0.01
Stage 6	17.97	-0.02	0.01
Stage 6	17.77	-0.01	0.01
Stage 6	17.57	-0.01	0.01
Stage 6	17.37	-0.01	0.01
Stage 6	17.17	-0.01	0.01
Stage 6	16.97	0	0.01
Stage 6	16.77	0	0.01
Stage 6	16.57	0	0.01
Stage 6	16.37	0	0
Stage 6	16.32	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	40.52	0	0
Stage 6	40.32	0	0
Stage 6	40.12	0	0
Stage 6	40.02	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 7

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	40.02	0	0
Stage 7	39.82	0	0
Stage 7	39.82	0	0
Stage 7	39.62	-0.47	-2.36
Stage 7	39.42	-2.24	-8.84
Stage 7	39.22	-5.71	-17.34
Stage 7	39.02	-11.28	-27.84
Stage 7	38.82	-19.32	-40.19
Stage 7	38.62	-30.15	-54.16
Stage 7	38.42	-44.08	-69.67
Stage 7	38.22	-61.4	-86.58
Stage 7	38.02	-82.34	-104.7
Stage 7	37.87	-100.55	-121.39
Stage 7	37.67	-77.57	114.86
Stage 7	37.47	-58.58	94.96
Stage 7	37.27	-43.57	75.06
Stage 7	37.07	-32.49	55.37
Stage 7	36.87	-25.29	36.01
Stage 7	36.67	-21.89	17.02
Stage 7	36.47	-22.21	-1.62
Stage 7	36.27	-26.21	-19.96
Stage 7	36.07	-33.82	-38.09
Stage 7	35.87	-45.08	-56.3
Stage 7	35.67	-60.1	-75.07
Stage 7	35.47	-78.96	-94.33
Stage 7	35.37	-89.89	-109.26
Stage 7	35.17	-64.05	129.18
Stage 7	34.97	-42.32	108.64
Stage 7	34.77	-24.74	87.93
Stage 7	34.57	-11.3	67.2
Stage 7	34.37	-1.99	46.56
Stage 7	34.17	3.17	25.76
Stage 7	33.97	4.13	4.8
Stage 7	33.77	0.86	-16.34
Stage 7	33.57	-6.67	-37.64
Stage 7	33.37	-18.5	-59.13
Stage 7	33.17	-34.66	-80.8
Stage 7	32.97	-55.2	-102.73
Stage 7	32.87	-67.14	-119.39
Stage 7	32.67	-43.16	119.92
Stage 7	32.47	-23.65	97.54
Stage 7	32.27	-8.6	75.24
Stage 7	32.07	2.05	53.23
Stage 7	31.87	8.95	34.52
Stage 7	31.67	13.48	22.68
Stage 7	31.47	16.78	16.45
Stage 7	31.27	19	11.12
Stage 7	31.07	20.32	6.61
Stage 7	30.87	20.89	2.86
Stage 7	30.67	20.85	-0.2
Stage 7	30.47	20.32	-2.63
Stage 7	30.37	19.92	-4.05
Stage 7	30.17	18.86	-5.28
Stage 7	29.97	17.57	-6.48
Stage 7	29.77	16.11	-7.3
Stage 7	29.57	14.55	-7.8
Stage 7	29.37	12.95	-7.98
Stage 7	29.17	11.37	-7.9
Stage 7	28.97	9.85	-7.63
Stage 7	28.77	8.4	-7.2
Stage 7	28.57	7.06	-6.7
Stage 7	28.37	5.83	-6.16
Stage 7	28.17	4.71	-5.61
Stage 7	27.97	3.7	-5.04
Stage 7	27.87	3.24	-4.6
Stage 7	27.67	2.41	-4.17
Stage 7	27.47	1.69	-3.61

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	27.27	1.07	-3.08
Stage 7	27.07	0.56	-2.57
Stage 7	26.87	0.13	-2.11
Stage 7	26.67	-0.2	-1.68
Stage 7	26.47	-0.46	-1.31
Stage 7	26.27	-0.66	-0.97
Stage 7	26.07	-0.8	-0.68
Stage 7	25.87	-0.88	-0.44
Stage 7	25.67	-0.93	-0.23
Stage 7	25.47	-0.94	-0.06
Stage 7	25.37	-0.94	0.04
Stage 7	25.17	-0.91	0.14
Stage 7	24.97	-0.86	0.23
Stage 7	24.77	-0.8	0.3
Stage 7	24.57	-0.73	0.34
Stage 7	24.37	-0.66	0.37
Stage 7	24.17	-0.58	0.38
Stage 7	23.97	-0.51	0.38
Stage 7	23.77	-0.43	0.36
Stage 7	23.57	-0.37	0.34
Stage 7	23.37	-0.3	0.31
Stage 7	23.17	-0.25	0.29
Stage 7	22.97	-0.2	0.26
Stage 7	22.77	-0.15	0.23
Stage 7	22.57	-0.11	0.2
Stage 7	22.37	-0.08	0.17
Stage 7	22.17	-0.05	0.15
Stage 7	21.97	-0.02	0.12
Stage 7	21.77	0	0.1
Stage 7	21.57	0.01	0.08
Stage 7	21.37	0.03	0.06
Stage 7	21.17	0.04	0.05
Stage 7	20.97	0.04	0.03
Stage 7	20.77	0.05	0.02
Stage 7	20.57	0.05	0.01
Stage 7	20.37	0.05	0
Stage 7	20.17	0.05	0
Stage 7	19.97	0.05	-0.01
Stage 7	19.77	0.05	-0.01
Stage 7	19.57	0.04	-0.02
Stage 7	19.37	0.04	-0.02
Stage 7	19.17	0.04	-0.02
Stage 7	18.97	0.03	-0.02
Stage 7	18.77	0.03	-0.02
Stage 7	18.57	0.02	-0.02
Stage 7	18.37	0.02	-0.02
Stage 7	18.17	0.02	-0.02
Stage 7	17.97	0.01	-0.02
Stage 7	17.77	0.01	-0.01
Stage 7	17.57	0.01	-0.01
Stage 7	17.37	0.01	-0.01
Stage 7	17.17	0	-0.01
Stage 7	16.97	0	-0.01
Stage 7	16.77	0	-0.01
Stage 7	16.57	0	0
Stage 7	16.37	0	0
Stage 7	16.32	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	40.52	0	0
Stage 7	40.32	0	0
Stage 7	40.12	0	0
Stage 7	40.02	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 8

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	40.02	0	0
Stage 8	39.82	0	0
Stage 8	39.82	0	0
Stage 8	39.62	-0.49	-2.45
Stage 8	39.42	-2.31	-9.08
Stage 8	39.22	-5.86	-17.77
Stage 8	39.02	-11.56	-28.51
Stage 8	38.82	-19.79	-41.15
Stage 8	38.62	-30.88	-55.46
Stage 8	38.42	-45.15	-71.35
Stage 8	38.22	-62.89	-88.7
Stage 8	38.02	-84.35	-107.3
Stage 8	37.87	-103.02	-124.43
Stage 8	37.67	-80.94	110.38
Stage 8	37.47	-62.93	90.03
Stage 8	37.27	-48.99	69.71
Stage 8	37.07	-39.07	49.6
Stage 8	36.87	-33.11	29.83
Stage 8	36.67	-31.02	10.44
Stage 8	36.47	-32.74	-8.59
Stage 8	36.27	-38.2	-27.3
Stage 8	36.07	-47.35	-45.77
Stage 8	35.87	-60.2	-64.27
Stage 8	35.67	-76.86	-83.28
Stage 8	35.47	-97.4	-102.69
Stage 8	35.37	-109.16	-117.66
Stage 8	35.17	-85.01	120.78
Stage 8	34.97	-64.92	100.45
Stage 8	34.77	-48.88	80.2
Stage 8	34.57	-36.83	60.21
Stage 8	34.37	-28.71	40.65
Stage 8	34.17	-24.44	21.3
Stage 8	33.97	-24	2.22
Stage 8	33.77	-27.31	-16.55
Stage 8	33.57	-34.3	-34.97
Stage 8	33.37	-44.9	-52.99
Stage 8	33.17	-59.01	-70.56
Stage 8	32.97	-76.56	-87.71
Stage 8	32.87	-86.58	-100.25
Stage 8	32.67	-55.38	155.98
Stage 8	32.47	-27.33	140.26
Stage 8	32.27	-2.25	125.4
Stage 8	32.07	20.05	111.53
Stage 8	31.87	39.79	98.67
Stage 8	31.67	56.91	85.62
Stage 8	31.47	71.36	72.25
Stage 8	31.27	83.07	58.55
Stage 8	31.07	91.98	44.54
Stage 8	30.87	98.02	30.2
Stage 8	30.67	101.13	15.55
Stage 8	30.47	101.25	0.57
Stage 8	30.37	100.16	-10.9
Stage 8	30.17	95.66	-22.49
Stage 8	29.97	88.01	-38.26
Stage 8	29.77	77.13	-54.36
Stage 8	29.57	63.61	-67.62
Stage 8	29.37	48.63	-74.88
Stage 8	29.17	33.4	-76.15
Stage 8	28.97	19.12	-71.43
Stage 8	28.77	6.98	-60.68
Stage 8	28.57	-3.04	-50.07
Stage 8	28.37	-11.09	-40.26
Stage 8	28.17	-17.39	-31.52
Stage 8	27.97	-22.15	-23.8
Stage 8	27.87	-24.02	-18.74
Stage 8	27.67	-26.83	-14.03
Stage 8	27.47	-28.56	-8.66

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	27.27	-29.39	-4.12
Stage 8	27.07	-29.46	-0.36
Stage 8	26.87	-28.92	2.7
Stage 8	26.67	-27.9	5.12
Stage 8	26.47	-26.5	6.98
Stage 8	26.27	-24.83	8.35
Stage 8	26.07	-22.97	9.29
Stage 8	25.87	-21	9.85
Stage 8	25.67	-18.98	10.11
Stage 8	25.47	-16.96	10.08
Stage 8	25.37	-15.98	9.88
Stage 8	25.17	-14.05	9.63
Stage 8	24.97	-12.21	9.18
Stage 8	24.77	-10.48	8.64
Stage 8	24.57	-8.88	8.04
Stage 8	24.37	-7.4	7.39
Stage 8	24.17	-6.05	6.72
Stage 8	23.97	-4.84	6.05
Stage 8	23.77	-3.77	5.39
Stage 8	23.57	-2.82	4.75
Stage 8	23.37	-1.99	4.14
Stage 8	23.17	-1.28	3.56
Stage 8	22.97	-0.67	3.02
Stage 8	22.77	-0.17	2.53
Stage 8	22.57	0.25	2.08
Stage 8	22.37	0.58	1.67
Stage 8	22.17	0.84	1.3
Stage 8	21.97	1.04	0.98
Stage 8	21.77	1.18	0.7
Stage 8	21.57	1.27	0.46
Stage 8	21.37	1.32	0.25
Stage 8	21.17	1.34	0.08
Stage 8	20.97	1.33	-0.07
Stage 8	20.77	1.29	-0.18
Stage 8	20.57	1.23	-0.28
Stage 8	20.37	1.16	-0.35
Stage 8	20.17	1.09	-0.4
Stage 8	19.97	1	-0.43
Stage 8	19.77	0.91	-0.45
Stage 8	19.57	0.82	-0.46
Stage 8	19.37	0.72	-0.46
Stage 8	19.17	0.64	-0.45
Stage 8	18.97	0.55	-0.43
Stage 8	18.77	0.47	-0.4
Stage 8	18.57	0.39	-0.38
Stage 8	18.37	0.32	-0.34
Stage 8	18.17	0.26	-0.31
Stage 8	17.97	0.21	-0.28
Stage 8	17.77	0.16	-0.24
Stage 8	17.57	0.12	-0.21
Stage 8	17.37	0.08	-0.18
Stage 8	17.17	0.05	-0.14
Stage 8	16.97	0.03	-0.11
Stage 8	16.77	0.01	-0.08
Stage 8	16.57	0	-0.05
Stage 8	16.37	0	-0.02
Stage 8	16.32	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	40.52	0	0
Stage 8	40.32	0	0
Stage 8	40.12	0	0
Stage 8	40.02	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 9

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	40.02	0	0
Stage 9	39.82	0	0
Stage 9	39.82	0	0
Stage 9	39.62	-0.49	-2.46
Stage 9	39.42	-2.3	-9.06
Stage 9	39.22	-5.84	-17.68
Stage 9	39.02	-11.5	-28.31
Stage 9	38.82	-19.66	-40.79
Stage 9	38.62	-30.64	-54.9
Stage 9	38.42	-44.75	-70.56
Stage 9	38.22	-62.28	-87.62
Stage 9	38.02	-83.46	-105.9
Stage 9	37.87	-101.86	-122.72
Stage 9	37.67	-79.23	113.15
Stage 9	37.47	-60.59	93.24
Stage 9	37.27	-45.91	73.37
Stage 9	37.07	-35.16	53.75
Stage 9	36.87	-28.27	34.48
Stage 9	36.67	-25.14	15.62
Stage 9	36.47	-25.72	-2.88
Stage 9	36.27	-29.93	-21.07
Stage 9	36.07	-37.74	-39.03
Stage 9	35.87	-49.15	-57.05
Stage 9	35.67	-64.28	-75.63
Stage 9	35.47	-83.21	-94.69
Stage 9	35.37	-94.16	-109.46
Stage 9	35.17	-68.25	129.55
Stage 9	34.97	-46.39	109.3
Stage 9	34.77	-28.6	88.96
Stage 9	34.57	-14.86	68.69
Stage 9	34.37	-5.14	48.6
Stage 9	34.17	0.55	28.46
Stage 9	33.97	2.2	8.27
Stage 9	33.77	-0.19	-11.98
Stage 9	33.57	-6.65	-32.28
Stage 9	33.37	-17.18	-52.64
Stage 9	33.17	-31.79	-73.07
Stage 9	32.97	-50.52	-93.64
Stage 9	32.87	-61.44	-109.2
Stage 9	32.67	-34.54	134.5
Stage 9	32.47	-11.79	113.75
Stage 9	32.27	6.84	93.15
Stage 9	32.07	21.4	72.78
Stage 9	31.87	31.93	52.66
Stage 9	31.67	38.25	31.59
Stage 9	31.47	40.14	9.44
Stage 9	31.27	37.48	-13.26
Stage 9	31.07	30.16	-36.59
Stage 9	30.87	18.06	-60.53
Stage 9	30.67	1.06	-85
Stage 9	30.47	-20.93	-109.94
Stage 9	30.37	-33.82	-128.91
Stage 9	30.17	-12.2	108.07
Stage 9	29.97	4.29	82.47
Stage 9	29.77	15.65	56.81
Stage 9	29.57	21.91	31.29
Stage 9	29.37	23.84	9.66
Stage 9	29.17	22.81	-5.14
Stage 9	28.97	20.21	-13.04
Stage 9	28.77	17.42	-13.9
Stage 9	28.57	14.7	-13.6
Stage 9	28.37	12.13	-12.86
Stage 9	28.17	9.73	-11.99
Stage 9	27.97	7.53	-11.01
Stage 9	27.87	6.51	-10.22
Stage 9	27.67	4.63	-9.42
Stage 9	27.47	2.96	-8.32

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	27.27	1.52	-7.23
Stage 9	27.07	0.29	-6.16
Stage 9	26.87	-0.74	-5.14
Stage 9	26.67	-1.58	-4.19
Stage 9	26.47	-2.24	-3.31
Stage 9	26.27	-2.74	-2.5
Stage 9	26.07	-3.1	-1.79
Stage 9	25.87	-3.33	-1.16
Stage 9	25.67	-3.46	-0.66
Stage 9	25.47	-3.52	-0.26
Stage 9	25.37	-3.52	-0.02
Stage 9	25.17	-3.48	0.2
Stage 9	24.97	-3.39	0.46
Stage 9	24.77	-3.25	0.68
Stage 9	24.57	-3.08	0.87
Stage 9	24.37	-2.87	1.01
Stage 9	24.17	-2.65	1.11
Stage 9	23.97	-2.42	1.18
Stage 9	23.77	-2.17	1.22
Stage 9	23.57	-1.93	1.23
Stage 9	23.37	-1.68	1.21
Stage 9	23.17	-1.45	1.18
Stage 9	22.97	-1.22	1.13
Stage 9	22.77	-1.01	1.06
Stage 9	22.57	-0.81	0.99
Stage 9	22.37	-0.63	0.91
Stage 9	22.17	-0.47	0.83
Stage 9	21.97	-0.32	0.74
Stage 9	21.77	-0.19	0.65
Stage 9	21.57	-0.08	0.56
Stage 9	21.37	0.02	0.48
Stage 9	21.17	0.1	0.4
Stage 9	20.97	0.16	0.32
Stage 9	20.77	0.21	0.25
Stage 9	20.57	0.25	0.18
Stage 9	20.37	0.28	0.12
Stage 9	20.17	0.29	0.07
Stage 9	19.97	0.3	0.03
Stage 9	19.77	0.29	-0.01
Stage 9	19.57	0.28	-0.04
Stage 9	19.37	0.27	-0.06
Stage 9	19.17	0.26	-0.08
Stage 9	18.97	0.24	-0.1
Stage 9	18.77	0.21	-0.11
Stage 9	18.57	0.19	-0.12
Stage 9	18.37	0.17	-0.12
Stage 9	18.17	0.14	-0.12
Stage 9	17.97	0.12	-0.12
Stage 9	17.77	0.1	-0.12
Stage 9	17.57	0.07	-0.11
Stage 9	17.37	0.05	-0.1
Stage 9	17.17	0.04	-0.09
Stage 9	16.97	0.02	-0.07
Stage 9	16.77	0.01	-0.06
Stage 9	16.57	0	-0.04
Stage 9	16.37	0	-0.02
Stage 9	16.32	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	40.52	0	0
Stage 9	40.32	0	0
Stage 9	40.12	0	0
Stage 9	40.02	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 10

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	40.02	0	0
Stage 10	39.82	0	0
Stage 10	39.82	0	0
Stage 10	39.62	-0.44	-2.21
Stage 10	39.42	-2.16	-8.59
Stage 10	39.22	-5.57	-17.04
Stage 10	39.02	-11.08	-27.56
Stage 10	38.82	-19.07	-39.97
Stage 10	38.62	-29.89	-54.06
Stage 10	38.42	-43.84	-69.74
Stage 10	38.22	-61.21	-86.88
Stage 10	38.02	-82.27	-105.29
Stage 10	37.87	-100.61	-122.26
Stage 10	37.67	-78.02	112.92
Stage 10	37.47	-59.48	92.73
Stage 10	37.27	-44.97	72.53
Stage 10	37.07	-34.47	52.51
Stage 10	36.87	-27.91	32.79
Stage 10	36.67	-25.23	13.41
Stage 10	36.47	-26.36	-5.65
Stage 10	36.27	-31.25	-24.44
Stage 10	36.07	-39.85	-43.03
Stage 10	35.87	-52.2	-61.71
Stage 10	35.67	-68.39	-80.96
Stage 10	35.47	-88.53	-100.69
Stage 10	35.37	-100.12	-115.97
Stage 10	35.17	-76.05	120.36
Stage 10	34.97	-56.17	99.4
Stage 10	34.77	-40.51	78.31
Stage 10	34.57	-29.06	57.24
Stage 10	34.37	-21.79	36.34
Stage 10	34.17	-18.72	15.36
Stage 10	33.97	-19.85	-5.67
Stage 10	33.77	-25.2	-26.71
Stage 10	33.57	-34.73	-47.68
Stage 10	33.37	-48.44	-68.55
Stage 10	33.17	-66.3	-89.28
Stage 10	32.97	-88.28	-109.89
Stage 10	32.87	-100.8	-125.26
Stage 10	32.67	-76.83	119.87
Stage 10	32.47	-56.84	99.95
Stage 10	32.27	-40.71	80.63
Stage 10	32.07	-28.29	62.09
Stage 10	31.87	-19.42	44.39
Stage 10	31.67	-14.13	26.41
Stage 10	31.47	-12.49	8.22
Stage 10	31.27	-14.45	-9.79
Stage 10	31.07	-19.95	-27.52
Stage 10	30.87	-28.92	-44.85
Stage 10	30.67	-41.25	-61.65
Stage 10	30.47	-56.81	-77.77
Stage 10	30.37	-65.73	-89.22
Stage 10	30.17	-29.01	183.57
Stage 10	29.97	4.54	167.79
Stage 10	29.77	34.88	151.69
Stage 10	29.57	61.94	135.28
Stage 10	29.37	85.65	118.54
Stage 10	29.17	105.94	101.48
Stage 10	28.97	122.76	84.11
Stage 10	28.77	136.05	66.41
Stage 10	28.57	145.72	48.39
Stage 10	28.37	151.74	30.05
Stage 10	28.17	154.01	11.39
Stage 10	27.97	152.5	-7.59
Stage 10	27.87	150.29	-22.06
Stage 10	27.67	142.96	-36.65
Stage 10	27.47	131.67	-56.43

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	27.27	116.37	-76.53
Stage 10	27.07	97.61	-93.8
Stage 10	26.87	76.59	-105.07
Stage 10	26.67	54.53	-110.34
Stage 10	26.47	32.6	-109.62
Stage 10	26.27	12.02	-102.9
Stage 10	26.07	-6.02	-90.19
Stage 10	25.87	-21.15	-75.64
Stage 10	25.67	-33.44	-61.47
Stage 10	25.47	-42.97	-47.66
Stage 10	25.37	-46.79	-38.16
Stage 10	25.17	-52.65	-29.28
Stage 10	24.97	-56.46	-19.05
Stage 10	24.77	-58.52	-10.33
Stage 10	24.57	-59.12	-3
Stage 10	24.37	-58.51	3.05
Stage 10	24.17	-56.93	7.94
Stage 10	23.97	-54.57	11.79
Stage 10	23.77	-51.62	14.72
Stage 10	23.57	-48.26	16.84
Stage 10	23.37	-44.61	18.25
Stage 10	23.17	-40.79	19.07
Stage 10	22.97	-36.92	19.37
Stage 10	22.77	-33.08	19.2
Stage 10	22.57	-29.35	18.67
Stage 10	22.37	-25.77	17.9
Stage 10	22.17	-22.38	16.94
Stage 10	21.97	-19.21	15.85
Stage 10	21.77	-16.28	14.66
Stage 10	21.57	-13.59	13.43
Stage 10	21.37	-11.16	12.17
Stage 10	21.17	-8.97	10.92
Stage 10	20.97	-7.04	9.69
Stage 10	20.77	-5.34	8.5
Stage 10	20.57	-3.86	7.36
Stage 10	20.37	-2.61	6.29
Stage 10	20.17	-1.55	5.29
Stage 10	19.97	-0.68	4.36
Stage 10	19.77	0.03	3.51
Stage 10	19.57	0.57	2.74
Stage 10	19.37	0.98	2.05
Stage 10	19.17	1.27	1.44
Stage 10	18.97	1.45	0.9
Stage 10	18.77	1.54	0.44
Stage 10	18.57	1.55	0.04
Stage 10	18.37	1.49	-0.28
Stage 10	18.17	1.38	-0.55
Stage 10	17.97	1.23	-0.75
Stage 10	17.77	1.06	-0.89
Stage 10	17.57	0.86	-0.97
Stage 10	17.37	0.66	-1
Stage 10	17.17	0.47	-0.96
Stage 10	16.97	0.3	-0.87
Stage 10	16.77	0.15	-0.72
Stage 10	16.57	0.05	-0.51
Stage 10	16.37	0	-0.24
Stage 10	16.32	0	-0.04

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	40.52	0	0
Stage 10	40.32	0	0
Stage 10	40.12	0	0
Stage 10	40.02	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 11

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 11	40.02	0	0
Stage 11	39.82	0	0
Stage 11	39.82	0	0
Stage 11	39.62	-0.47	-2.35
Stage 11	39.42	-2.24	-8.86
Stage 11	39.22	-5.72	-17.41
Stage 11	39.02	-11.33	-28.01
Stage 11	38.82	-19.42	-40.48
Stage 11	38.62	-30.34	-54.61
Stage 11	38.42	-44.4	-70.3
Stage 11	38.22	-61.89	-87.43
Stage 11	38.02	-83.05	-105.81
Stage 11	37.87	-101.46	-122.73
Stage 11	37.67	-78.92	112.7
Stage 11	37.47	-60.4	92.61
Stage 11	37.27	-45.89	72.54
Stage 11	37.07	-35.35	52.69
Stage 11	36.87	-28.72	33.17
Stage 11	36.67	-25.92	14.01
Stage 11	36.47	-26.87	-4.78
Stage 11	36.27	-31.53	-23.27
Stage 11	36.07	-39.83	-41.53
Stage 11	35.87	-51.8	-59.83
Stage 11	35.67	-67.54	-78.68
Stage 11	35.47	-87.13	-97.97
Stage 11	35.37	-98.42	-112.89
Stage 11	35.17	-73.43	124.96
Stage 11	34.97	-52.52	104.52
Stage 11	34.77	-35.73	83.98
Stage 11	34.57	-23.03	63.49
Stage 11	34.37	-14.4	43.16
Stage 11	34.17	-9.84	22.78
Stage 11	33.97	-9.37	2.33
Stage 11	33.77	-13	-18.15
Stage 11	33.57	-20.72	-38.59
Stage 11	33.37	-32.52	-58.99
Stage 11	33.17	-48.39	-79.33
Stage 11	32.97	-68.32	-99.65
Stage 11	32.87	-79.8	-114.9
Stage 11	32.67	-53.7	130.52
Stage 11	32.47	-31.6	110.51
Stage 11	32.27	-13.42	90.9
Stage 11	32.07	0.94	71.8
Stage 11	31.87	11.59	53.26
Stage 11	31.67	18.41	34.1
Stage 11	31.47	21.28	14.35
Stage 11	31.27	20.15	-5.66
Stage 11	31.07	14.98	-25.87
Stage 11	30.87	5.73	-46.22
Stage 11	30.67	-7.59	-66.63
Stage 11	30.47	-25	-87.01
Stage 11	30.37	-35.21	-102.19
Stage 11	30.17	-4.72	152.46
Stage 11	29.97	21.4	130.59
Stage 11	29.77	42.92	107.61
Stage 11	29.57	59.61	83.47
Stage 11	29.37	71.25	58.17
Stage 11	29.17	77.66	32.08
Stage 11	28.97	78.73	5.33
Stage 11	28.77	74.3	-22.12
Stage 11	28.57	64.23	-50.39
Stage 11	28.37	48.35	-79.4
Stage 11	28.17	26.53	-109.08
Stage 11	27.97	-1.34	-139.34
Stage 11	27.87	-17.57	-162.39
Stage 11	27.67	6.77	121.69
Stage 11	27.47	24.88	90.55

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 11	27.27	36.73	59.3
Stage 11	27.07	42.37	28.17
Stage 11	26.87	42.33	-0.18
Stage 11	26.67	38.01	-21.59
Stage 11	26.47	30.8	-36.06
Stage 11	26.27	22.18	-43.11
Stage 11	26.07	13.63	-42.75
Stage 11	25.87	5.8	-39.16
Stage 11	25.67	-1.12	-34.58
Stage 11	25.47	-6.94	-29.09
Stage 11	25.37	-9.43	-24.92
Stage 11	25.17	-13.62	-20.94
Stage 11	24.97	-16.85	-16.18
Stage 11	24.77	-19.24	-11.94
Stage 11	24.57	-20.88	-8.21
Stage 11	24.37	-21.88	-4.97
Stage 11	24.17	-22.32	-2.2
Stage 11	23.97	-22.29	0.14
Stage 11	23.77	-21.87	2.08
Stage 11	23.57	-21.15	3.64
Stage 11	23.37	-20.17	4.88
Stage 11	23.17	-19.01	5.79
Stage 11	22.97	-17.73	6.41
Stage 11	22.77	-16.38	6.76
Stage 11	22.57	-14.99	6.93
Stage 11	22.37	-13.6	6.96
Stage 11	22.17	-12.23	6.87
Stage 11	21.97	-10.89	6.69
Stage 11	21.77	-9.6	6.43
Stage 11	21.57	-8.38	6.11
Stage 11	21.37	-7.23	5.74
Stage 11	21.17	-6.17	5.34
Stage 11	20.97	-5.18	4.91
Stage 11	20.77	-4.29	4.48
Stage 11	20.57	-3.48	4.03
Stage 11	20.37	-2.76	3.6
Stage 11	20.17	-2.13	3.17
Stage 11	19.97	-1.58	2.75
Stage 11	19.77	-1.11	2.36
Stage 11	19.57	-0.71	1.98
Stage 11	19.37	-0.38	1.63
Stage 11	19.17	-0.12	1.31
Stage 11	18.97	0.08	1.01
Stage 11	18.77	0.23	0.75
Stage 11	18.57	0.33	0.51
Stage 11	18.37	0.39	0.29
Stage 11	18.17	0.41	0.11
Stage 11	17.97	0.4	-0.04
Stage 11	17.77	0.37	-0.16
Stage 11	17.57	0.32	-0.26
Stage 11	17.37	0.26	-0.31
Stage 11	17.17	0.19	-0.34
Stage 11	16.97	0.12	-0.33
Stage 11	16.77	0.07	-0.29
Stage 11	16.57	0.02	-0.22
Stage 11	16.37	0	-0.11
Stage 11	16.32	0	-0.02

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 11	40.52	0	0
Stage 11	40.32	0	0
Stage 11	40.12	0	0
Stage 11	40.02	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 12

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 12	40.02	0	0
Stage 12	39.82	0	0
Stage 12	39.82	0	0
Stage 12	39.62	-0.45	-2.25
Stage 12	39.42	-2.18	-8.66
Stage 12	39.22	-5.61	-17.12
Stage 12	39.02	-11.13	-27.62
Stage 12	38.82	-19.13	-40
Stage 12	38.62	-29.94	-54.05
Stage 12	38.42	-43.87	-69.66
Stage 12	38.22	-61.22	-86.72
Stage 12	38.02	-82.22	-105.02
Stage 12	37.87	-100.5	-121.89
Stage 12	37.67	-77.76	113.72
Stage 12	37.47	-59.03	93.67
Stage 12	37.27	-44.3	73.64
Stage 12	37.07	-33.54	53.82
Stage 12	36.87	-26.67	34.3
Stage 12	36.67	-23.65	15.14
Stage 12	36.47	-24.39	-3.69
Stage 12	36.27	-28.83	-22.24
Stage 12	36.07	-36.95	-40.58
Stage 12	35.87	-48.75	-59
Stage 12	35.67	-64.35	-78
Stage 12	35.47	-83.85	-97.49
Stage 12	35.37	-95.11	-112.59
Stage 12	35.17	-70.22	124.43
Stage 12	34.97	-49.49	103.67
Stage 12	34.77	-32.94	82.74
Stage 12	34.57	-20.58	61.81
Stage 12	34.37	-12.38	40.97
Stage 12	34.17	-8.38	20
Stage 12	33.97	-8.6	-1.08
Stage 12	33.77	-13.05	-22.27
Stage 12	33.57	-21.76	-43.53
Stage 12	33.37	-34.72	-64.83
Stage 12	33.17	-51.95	-86.13
Stage 12	32.97	-73.45	-107.49
Stage 12	32.87	-85.81	-123.57
Stage 12	32.67	-62.19	118.09
Stage 12	32.47	-42.81	96.88
Stage 12	32.27	-27.61	76.03
Stage 12	32.07	-16.47	55.67
Stage 12	31.87	-9.3	35.86
Stage 12	31.67	-6.21	15.46
Stage 12	31.47	-7.3	-5.47
Stage 12	31.27	-12.62	-26.57
Stage 12	31.07	-22.17	-47.74
Stage 12	30.87	-35.94	-68.85
Stage 12	30.67	-53.89	-89.78
Stage 12	30.47	-75.96	-110.36
Stage 12	30.37	-88.5	-125.42
Stage 12	30.17	-62.39	130.56
Stage 12	29.97	-40.47	109.59
Stage 12	29.77	-22.85	88.09
Stage 12	29.57	-9.63	66.11
Stage 12	29.37	-0.88	43.76
Stage 12	29.17	3.42	21.51
Stage 12	28.97	3.34	-0.41
Stage 12	28.77	-1.04	-21.92
Stage 12	28.57	-9.64	-43
Stage 12	28.37	-22.34	-63.49
Stage 12	28.17	-38.98	-83.19
Stage 12	27.97	-59.41	-102.17
Stage 12	27.87	-71.07	-116.64
Stage 12	27.67	-25.94	225.69
Stage 12	27.47	15.25	205.91

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 12	27.27	52.41	185.81
Stage 12	27.07	85.49	165.39
Stage 12	26.87	114.42	144.65
Stage 12	26.67	139.13	123.59
Stage 12	26.47	159.57	102.21
Stage 12	26.27	175.68	80.5
Stage 12	26.07	187.37	58.48
Stage 12	25.87	194.6	36.14
Stage 12	25.67	197.3	13.48
Stage 12	25.47	195.39	-9.51
Stage 12	25.37	192.7	-26.98
Stage 12	25.17	183.78	-44.58
Stage 12	24.97	170.11	-68.36
Stage 12	24.77	151.61	-92.47
Stage 12	24.57	128.87	-113.74
Stage 12	24.37	103.07	-129.01
Stage 12	24.17	75.41	-138.29
Stage 12	23.97	47.09	-141.57
Stage 12	23.77	19.32	-138.86
Stage 12	23.57	-6.71	-130.15
Stage 12	23.37	-29.8	-115.45
Stage 12	23.17	-48.9	-95.49
Stage 12	22.97	-64.17	-76.35
Stage 12	22.77	-75.76	-57.98
Stage 12	22.57	-83.83	-40.35
Stage 12	22.37	-88.82	-24.94
Stage 12	22.17	-91.2	-11.89
Stage 12	21.97	-91.4	-1.01
Stage 12	21.77	-89.82	7.89
Stage 12	21.57	-86.82	15.01
Stage 12	21.37	-82.71	20.53
Stage 12	21.17	-77.78	24.65
Stage 12	20.97	-72.28	27.53
Stage 12	20.77	-66.41	29.36
Stage 12	20.57	-60.35	30.28
Stage 12	20.37	-54.26	30.43
Stage 12	20.17	-48.29	29.85
Stage 12	19.97	-42.55	28.75
Stage 12	19.77	-37.09	27.28
Stage 12	19.57	-31.98	25.54
Stage 12	19.37	-27.26	23.61
Stage 12	19.17	-22.95	21.57
Stage 12	18.97	-19.05	19.47
Stage 12	18.77	-15.58	17.36
Stage 12	18.57	-12.53	15.28
Stage 12	18.37	-9.87	13.27
Stage 12	18.17	-7.6	11.35
Stage 12	17.97	-5.7	9.54
Stage 12	17.77	-4.12	7.86
Stage 12	17.57	-2.86	6.33
Stage 12	17.37	-1.87	4.94
Stage 12	17.17	-1.13	3.71
Stage 12	16.97	-0.6	2.63
Stage 12	16.77	-0.26	1.71
Stage 12	16.57	-0.07	0.95
Stage 12	16.37	0	0.34
Stage 12	16.32	0	0.05

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 12	40.52	0	0
Stage 12	40.32	0	0
Stage 12	40.12	0	0
Stage 12	40.02	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 13

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 13	40.02	0	0
Stage 13	39.82	0	0
Stage 13	39.82	0	0
Stage 13	39.62	-0.46	-2.28
Stage 13	39.42	-2.2	-8.72
Stage 13	39.22	-5.64	-17.22
Stage 13	39.02	-11.19	-27.75
Stage 13	38.82	-19.23	-40.16
Stage 13	38.62	-30.07	-54.24
Stage 13	38.42	-44.05	-69.89
Stage 13	38.22	-61.45	-86.97
Stage 13	38.02	-82.51	-105.31
Stage 13	37.87	-100.84	-122.2
Stage 13	37.67	-78.17	113.32
Stage 13	37.47	-59.52	93.26
Stage 13	37.27	-44.88	73.2
Stage 13	37.07	-34.21	53.36
Stage 13	36.87	-27.44	33.83
Stage 13	36.67	-24.51	14.65
Stage 13	36.47	-25.35	-4.18
Stage 13	36.27	-29.89	-22.71
Stage 13	36.07	-38.1	-41.04
Stage 13	35.87	-49.98	-59.44
Stage 13	35.67	-65.67	-78.4
Stage 13	35.47	-85.23	-97.84
Stage 13	35.37	-96.52	-112.89
Stage 13	35.17	-71.64	124.38
Stage 13	34.97	-50.9	103.72
Stage 13	34.77	-34.32	82.91
Stage 13	34.57	-21.89	62.12
Stage 13	34.37	-13.6	41.45
Stage 13	34.17	-9.47	20.68
Stage 13	33.97	-9.5	-0.17
Stage 13	33.77	-13.72	-21.09
Stage 13	33.57	-22.13	-42.06
Stage 13	33.37	-34.73	-63.02
Stage 13	33.17	-51.53	-83.97
Stage 13	32.97	-72.51	-104.93
Stage 13	32.87	-84.58	-120.69
Stage 13	32.67	-60.09	122.45
Stage 13	32.47	-39.75	101.72
Stage 13	32.27	-23.47	81.38
Stage 13	32.07	-11.16	61.55
Stage 13	31.87	-2.7	42.3
Stage 13	31.67	1.79	22.46
Stage 13	31.47	2.21	2.08
Stage 13	31.27	-1.49	-18.48
Stage 13	31.07	-9.31	-39.12
Stage 13	30.87	-21.27	-59.77
Stage 13	30.67	-37.32	-80.29
Stage 13	30.47	-57.44	-100.55
Stage 13	30.37	-68.98	-115.45
Stage 13	30.17	-40.78	141
Stage 13	29.97	-16.78	120.01
Stage 13	29.77	2.88	98.3
Stage 13	29.57	18.06	75.89
Stage 13	29.37	28.63	52.84
Stage 13	29.17	34.55	29.58
Stage 13	28.97	35.81	6.31
Stage 13	28.77	32.42	-16.96
Stage 13	28.57	24.37	-40.25
Stage 13	28.37	11.68	-63.45
Stage 13	28.17	-5.61	-86.42
Stage 13	27.97	-27.46	-109.26
Stage 13	27.87	-40.17	-127.13
Stage 13	27.67	-1.3	194.35
Stage 13	27.47	32.49	168.97

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 13	27.27	60.99	142.5
Stage 13	27.07	83.97	114.92
Stage 13	26.87	101.22	86.22
Stage 13	26.67	112.5	56.4
Stage 13	26.47	117.59	25.48
Stage 13	26.27	116.35	-6.23
Stage 13	26.07	108.6	-38.72
Stage 13	25.87	94.21	-71.95
Stage 13	25.67	73.05	-105.84
Stage 13	25.47	44.99	-140.28
Stage 13	25.37	28.35	-166.45
Stage 13	25.17	51.25	114.51
Stage 13	24.97	67.08	79.18
Stage 13	24.77	75.83	43.74
Stage 13	24.57	77.49	8.3
Stage 13	24.37	72.43	-25.28
Stage 13	24.17	62.14	-51.48
Stage 13	23.97	48.09	-70.22
Stage 13	23.77	31.8	-81.45
Stage 13	23.57	14.77	-85.18
Stage 13	23.37	-1.52	-81.44
Stage 13	23.17	-15.73	-71.02
Stage 13	22.97	-27.74	-60.08
Stage 13	22.77	-37.47	-48.66
Stage 13	22.57	-44.84	-36.83
Stage 13	22.37	-50.07	-26.16
Stage 13	22.17	-53.45	-16.9
Stage 13	21.97	-55.24	-8.96
Stage 13	21.77	-55.69	-2.26
Stage 13	21.57	-55.03	3.3
Stage 13	21.37	-53.47	7.83
Stage 13	21.17	-51.19	11.41
Stage 13	20.97	-48.35	14.15
Stage 13	20.77	-45.13	16.13
Stage 13	20.57	-41.65	17.42
Stage 13	20.37	-38.02	18.11
Stage 13	20.17	-34.36	18.31
Stage 13	19.97	-30.74	18.09
Stage 13	19.77	-27.23	17.57
Stage 13	19.57	-23.87	16.81
Stage 13	19.37	-20.7	15.87
Stage 13	19.17	-17.74	14.8
Stage 13	18.97	-15.01	13.64
Stage 13	18.77	-12.52	12.42
Stage 13	18.57	-10.29	11.18
Stage 13	18.37	-8.3	9.94
Stage 13	18.17	-6.55	8.72
Stage 13	17.97	-5.05	7.54
Stage 13	17.77	-3.76	6.41
Stage 13	17.57	-2.7	5.33
Stage 13	17.37	-1.83	4.33
Stage 13	17.17	-1.15	3.4
Stage 13	16.97	-0.64	2.54
Stage 13	16.77	-0.29	1.75
Stage 13	16.57	-0.08	1.04
Stage 13	16.37	0	0.4
Stage 13	16.32	0	0.06

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 13	40.52	0	0
Stage 13	40.32	0	0
Stage 13	40.12	0	0
Stage 13	40.02	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 14

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 14	40.02	0	0
Stage 14	39.82	0	0
Stage 14	39.82	0	0
Stage 14	39.62	-0.46	-2.28
Stage 14	39.42	-2.2	-8.73
Stage 14	39.22	-5.65	-17.22
Stage 14	39.02	-11.2	-27.75
Stage 14	38.82	-19.23	-40.16
Stage 14	38.62	-30.07	-54.23
Stage 14	38.42	-44.05	-69.87
Stage 14	38.22	-61.44	-86.95
Stage 14	38.02	-82.49	-105.27
Stage 14	37.87	-100.81	-122.15
Stage 14	37.67	-78.13	113.41
Stage 14	37.47	-59.46	93.35
Stage 14	37.27	-44.8	73.31
Stage 14	37.07	-34.1	53.48
Stage 14	36.87	-27.31	33.97
Stage 14	36.67	-24.34	14.82
Stage 14	36.47	-25.14	-3.99
Stage 14	36.27	-29.64	-22.51
Stage 14	36.07	-37.81	-40.82
Stage 14	35.87	-49.65	-59.2
Stage 14	35.67	-65.28	-78.14
Stage 14	35.47	-84.79	-97.56
Stage 14	35.37	-96.05	-112.6
Stage 14	35.17	-71.11	124.71
Stage 14	34.97	-50.29	104.06
Stage 14	34.77	-33.64	83.26
Stage 14	34.57	-21.15	62.48
Stage 14	34.37	-12.78	41.81
Stage 14	34.17	-8.58	21.03
Stage 14	33.97	-8.55	0.16
Stage 14	33.77	-12.7	-20.79
Stage 14	33.57	-21.06	-41.79
Stage 14	33.37	-33.63	-62.81
Stage 14	33.17	-50.39	-83.81
Stage 14	32.97	-71.36	-104.86
Stage 14	32.87	-83.43	-120.69
Stage 14	32.67	-59.01	122.1
Stage 14	32.47	-38.76	101.24
Stage 14	32.27	-22.61	80.76
Stage 14	32.07	-10.46	60.76
Stage 14	31.87	-2.19	41.31
Stage 14	31.67	2.06	21.25
Stage 14	31.47	2.18	0.62
Stage 14	31.27	-1.86	-20.21
Stage 14	31.07	-10.09	-41.16
Stage 14	30.87	-22.52	-62.13
Stage 14	30.67	-39.12	-83
Stage 14	30.47	-59.85	-103.64
Stage 14	30.37	-71.73	-118.84
Stage 14	30.17	-44.49	136.23
Stage 14	29.97	-21.52	114.83
Stage 14	29.77	-2.98	92.69
Stage 14	29.57	10.99	69.85
Stage 14	29.37	20.26	46.38
Stage 14	29.17	24.81	22.72
Stage 14	28.97	24.62	-0.93
Stage 14	28.77	19.72	-24.52
Stage 14	28.57	10.1	-48.07
Stage 14	28.37	-4.19	-71.45
Stage 14	28.17	-23.08	-94.49
Stage 14	27.97	-46.54	-117.28
Stage 14	27.87	-60.04	-134.99
Stage 14	27.67	-22.48	187.78
Stage 14	27.47	10.1	162.9

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 14	27.27	37.54	137.17
Stage 14	27.07	59.66	110.6
Stage 14	26.87	76.3	83.21
Stage 14	26.67	87.3	55.03
Stage 14	26.47	92.54	26.15
Stage 14	26.27	91.91	-3.11
Stage 14	26.07	85.37	-32.71
Stage 14	25.87	72.86	-62.55
Stage 14	25.67	54.36	-92.51
Stage 14	25.47	29.86	-122.48
Stage 14	25.37	15.38	-144.84
Stage 14	25.17	47.41	160.15
Stage 14	24.97	73.58	130.82
Stage 14	24.77	93.97	101.99
Stage 14	24.57	108.73	73.77
Stage 14	24.37	118.01	46.42
Stage 14	24.17	122.02	20.07
Stage 14	23.97	120.97	-5.28
Stage 14	23.77	114.77	-30.99
Stage 14	23.57	103.37	-57.01
Stage 14	23.37	87.52	-79.26
Stage 14	23.17	68.41	-95.5
Stage 14	22.97	47.26	-105.76
Stage 14	22.77	25.26	-110.01
Stage 14	22.57	3.61	-108.28
Stage 14	22.37	-16.5	-100.54
Stage 14	22.17	-33.87	-86.82
Stage 14	21.97	-47.45	-67.92
Stage 14	21.77	-57.57	-50.62
Stage 14	21.57	-64.68	-35.54
Stage 14	21.37	-69.2	-22.57
Stage 14	21.17	-71.51	-11.57
Stage 14	20.97	-71.99	-2.39
Stage 14	20.77	-70.97	5.13
Stage 14	20.57	-68.74	11.14
Stage 14	20.37	-65.58	15.81
Stage 14	20.17	-61.72	19.29
Stage 14	19.97	-57.36	21.81
Stage 14	19.77	-52.65	23.53
Stage 14	19.57	-47.74	24.56
Stage 14	19.37	-42.74	25
Stage 14	19.17	-37.76	24.88
Stage 14	18.97	-32.91	24.26
Stage 14	18.77	-28.26	23.25
Stage 14	18.57	-23.88	21.92
Stage 14	18.37	-19.81	20.34
Stage 14	18.17	-16.1	18.57
Stage 14	17.97	-12.76	16.68
Stage 14	17.77	-9.81	14.74
Stage 14	17.57	-7.25	12.78
Stage 14	17.37	-5.09	10.82
Stage 14	17.17	-3.32	8.87
Stage 14	16.97	-1.93	6.95
Stage 14	16.77	-0.92	5.05
Stage 14	16.57	-0.28	3.18
Stage 14	16.37	-0.01	1.35
Stage 14	16.32	0	0.22

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 14	40.52	0	0
Stage 14	40.32	0	0
Stage 14	40.12	0	0
Stage 14	40.02	0	0

Risultati Elementi strutturali - A1+M1+R1

Design Assumption: A1+M1+R1 Sollecitazione Tir-A1

Stage	Forza (kN/m)
Stage 3	260
Stage 4	262.02241
Stage 5	256.98621
Stage 6	256.76495
Stage 7	257.28651
Stage 8	256.23897
Stage 9	256.97776
Stage 10	256.47713
Stage 11	256.65445
Stage 12	256.78354
Stage 13	256.72218
Stage 14	256.74974

Design Assumption: A1+M1+R1 Sollecitazione Tir-B1

Stage	Forza (kN/m)
Stage 5	260
Stage 6	264.78244
Stage 7	257.47774
Stage 8	257.48099
Stage 9	257.89543
Stage 10	255.68582
Stage 11	256.8514
Stage 12	256.21596
Stage 13	256.40251
Stage 14	256.43696

Design Assumption: A1+M1+R1 Sollecitazione Tir-C1

Stage	Forza (kN/m)
Stage 7	260
Stage 8	272.70399
Stage 9	263.29615
Stage 10	264.41636
Stage 11	264.64087
Stage 12	261.6965
Stage 13	262.85415
Stage 14	262.58076

Design Assumption: A1+M1+R1 Sollecitazione Tir-D1

Stage	Forza (kN/m)
Stage 9	260
Stage 10	288.76198
Stage 11	274.39854
Stage 12	275.45375
Stage 13	275.82958
Stage 14	274.73732

Design Assumption: A1+M1+R1 Sollecitazione Tir-E1

Stage	Forza (kN/m)
Stage 11	312
Stage 12	362.43012
Stage 13	344.96982
Stage 14	346.05051

Design Assumption: A1+M1+R1 Sollecitazione Tir-F1

Stage	Forza (kN/m)
Stage 13	312
Stage 14	332.31705

Risultati A2+M2+R1

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 1

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	40.02	0	0
Stage 1	39.82	0	0
Stage 1	39.62	0	0
Stage 1	39.42	0	0
Stage 1	39.22	0	0
Stage 1	39.02	0	0
Stage 1	38.82	0	0
Stage 1	38.62	0	0
Stage 1	38.42	0	0
Stage 1	38.22	0	0
Stage 1	38.02	0	0
Stage 1	37.87	0	0
Stage 1	37.67	0	0
Stage 1	37.47	0	0
Stage 1	37.27	0	0
Stage 1	37.07	0	0
Stage 1	36.87	0	0
Stage 1	36.67	0	0
Stage 1	36.47	0	0
Stage 1	36.27	0	0
Stage 1	36.07	0	0
Stage 1	35.87	0	0
Stage 1	35.67	0	0
Stage 1	35.47	0	0
Stage 1	35.37	0	0
Stage 1	35.17	0	0
Stage 1	34.97	0	0
Stage 1	34.77	0	0
Stage 1	34.57	0	0
Stage 1	34.37	0	0
Stage 1	34.17	0	0
Stage 1	33.97	0	0
Stage 1	33.77	0	0
Stage 1	33.57	0	0
Stage 1	33.37	0	0
Stage 1	33.17	0	0
Stage 1	32.97	0	0
Stage 1	32.87	0	0
Stage 1	32.67	0	0
Stage 1	32.47	0	0
Stage 1	32.27	0	0
Stage 1	32.07	0	0
Stage 1	31.87	0	0
Stage 1	31.67	0	0
Stage 1	31.47	0	0
Stage 1	31.27	0	0
Stage 1	31.07	0	0
Stage 1	30.87	0	0
Stage 1	30.67	0	0
Stage 1	30.47	0	0
Stage 1	30.37	0	0
Stage 1	30.17	0	0
Stage 1	29.97	0	0
Stage 1	29.77	0	0
Stage 1	29.57	0	0
Stage 1	29.37	0	0
Stage 1	29.17	0	0
Stage 1	28.97	0	0
Stage 1	28.77	0	0
Stage 1	28.57	0	0
Stage 1	28.37	0	0
Stage 1	28.17	0	0
Stage 1	27.97	0	0
Stage 1	27.87	0	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	27.67	0	0
Stage 1	27.47	0	0
Stage 1	27.27	0	0
Stage 1	27.07	0	0
Stage 1	26.87	0	0
Stage 1	26.67	0	0
Stage 1	26.47	0	0
Stage 1	26.27	0	0
Stage 1	26.07	0	0
Stage 1	25.87	0	0
Stage 1	25.67	0	0
Stage 1	25.47	0	0
Stage 1	25.37	0	0
Stage 1	25.17	0	0
Stage 1	24.97	0	0
Stage 1	24.77	0	0
Stage 1	24.57	0	0
Stage 1	24.37	0	0
Stage 1	24.17	0	0
Stage 1	23.97	0	0
Stage 1	23.77	0	0
Stage 1	23.57	0	0
Stage 1	23.37	0	0
Stage 1	23.17	0	0
Stage 1	22.97	0	0
Stage 1	22.77	0	0
Stage 1	22.57	0	0
Stage 1	22.37	0	0
Stage 1	22.17	0	0
Stage 1	21.97	0	0
Stage 1	21.77	0	0
Stage 1	21.57	0	0
Stage 1	21.37	0	0
Stage 1	21.17	0	0
Stage 1	20.97	0	0
Stage 1	20.77	0	0
Stage 1	20.57	0	0
Stage 1	20.37	0	0
Stage 1	20.17	0	0
Stage 1	19.97	0	0
Stage 1	19.77	0	0
Stage 1	19.57	0	0
Stage 1	19.37	0	0
Stage 1	19.17	0	0
Stage 1	18.97	0	0
Stage 1	18.77	0	0
Stage 1	18.57	0	0
Stage 1	18.37	0	0
Stage 1	18.17	0	0
Stage 1	17.97	0	0
Stage 1	17.77	0	0
Stage 1	17.57	0	0
Stage 1	17.37	0	0
Stage 1	17.17	0	0
Stage 1	16.97	0	0
Stage 1	16.77	0	0
Stage 1	16.57	0	0
Stage 1	16.37	0	0
Stage 1	16.32	0	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	40.52	0	0
Stage 1	40.32	0	0
Stage 1	40.12	0	0
Stage 1	40.02	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 2

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	40.02	0	0
Stage 2	39.82	0	0
Stage 2	39.82	0	0
Stage 2	39.62	-0.07	-0.34
Stage 2	39.42	-0.27	-1.01
Stage 2	39.22	-0.67	-2.02
Stage 2	39.02	-1.34	-3.36
Stage 2	38.82	-2.35	-5.04
Stage 2	38.62	-3.76	-7.06
Stage 2	38.42	-5.64	-9.41
Stage 2	38.22	-8.06	-12.1
Stage 2	38.02	-11.09	-15.12
Stage 2	37.87	-13.8	-18.06
Stage 2	37.67	-18.04	-21.22
Stage 2	37.47	-23.07	-25.17
Stage 2	37.27	-28.97	-29.45
Stage 2	37.07	-35.47	-32.52
Stage 2	36.87	-42.04	-32.83
Stage 2	36.67	-48.11	-30.37
Stage 2	36.47	-53.14	-25.14
Stage 2	36.27	-56.57	-17.15
Stage 2	36.07	-58.17	-7.99
Stage 2	35.87	-58.24	-0.39
Stage 2	35.67	-57.08	5.82
Stage 2	35.47	-54.92	10.8
Stage 2	35.37	-53.55	13.73
Stage 2	35.17	-50.29	16.31
Stage 2	34.97	-46.51	18.89
Stage 2	34.77	-42.36	20.76
Stage 2	34.57	-37.95	22.05
Stage 2	34.37	-33.37	22.88
Stage 2	34.17	-28.71	23.32
Stage 2	33.97	-24.15	22.77
Stage 2	33.77	-19.85	21.5
Stage 2	33.57	-15.91	19.73
Stage 2	33.37	-12.37	17.65
Stage 2	33.17	-9.28	15.46
Stage 2	32.97	-6.63	13.26
Stage 2	32.87	-5.47	11.67
Stage 2	32.67	-3.44	10.12
Stage 2	32.47	-1.8	8.21
Stage 2	32.27	-0.5	6.49
Stage 2	32.07	0.49	4.97
Stage 2	31.87	1.22	3.65
Stage 2	31.67	1.73	2.52
Stage 2	31.47	2.05	1.59
Stage 2	31.27	2.21	0.84
Stage 2	31.07	2.26	0.24
Stage 2	30.87	2.22	-0.22
Stage 2	30.67	2.11	-0.55
Stage 2	30.47	1.95	-0.79
Stage 2	30.37	1.86	-0.9
Stage 2	30.17	1.66	-0.98
Stage 2	29.97	1.46	-1.03
Stage 2	29.77	1.25	-1.05
Stage 2	29.57	1.04	-1.02
Stage 2	29.37	0.85	-0.95
Stage 2	29.17	0.68	-0.87
Stage 2	28.97	0.52	-0.78
Stage 2	28.77	0.39	-0.68
Stage 2	28.57	0.27	-0.58
Stage 2	28.37	0.18	-0.48
Stage 2	28.17	0.1	-0.39
Stage 2	27.97	0.04	-0.31
Stage 2	27.87	0.01	-0.26
Stage 2	27.67	-0.03	-0.21
Stage 2	27.47	-0.06	-0.15

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	27.27	-0.08	-0.1
Stage 2	27.07	-0.09	-0.06
Stage 2	26.87	-0.1	-0.03
Stage 2	26.67	-0.1	0
Stage 2	26.47	-0.1	0.02
Stage 2	26.27	-0.09	0.03
Stage 2	26.07	-0.08	0.04
Stage 2	25.87	-0.07	0.04
Stage 2	25.67	-0.06	0.05
Stage 2	25.47	-0.06	0.05
Stage 2	25.37	-0.05	0.04
Stage 2	25.17	-0.04	0.04
Stage 2	24.97	-0.03	0.04
Stage 2	24.77	-0.03	0.04
Stage 2	24.57	-0.02	0.03
Stage 2	24.37	-0.01	0.03
Stage 2	24.17	-0.01	0.02
Stage 2	23.97	-0.01	0.02
Stage 2	23.77	0	0.02
Stage 2	23.57	0	0.01
Stage 2	23.37	0	0.01
Stage 2	23.17	0	0.01
Stage 2	22.97	0	0
Stage 2	22.77	0	0
Stage 2	22.57	0	0
Stage 2	22.37	0	0
Stage 2	22.17	0	0
Stage 2	21.97	0	0
Stage 2	21.77	0	0
Stage 2	21.57	0	0
Stage 2	21.37	0	0
Stage 2	21.17	0	0
Stage 2	20.97	0	0
Stage 2	20.77	0	0
Stage 2	20.57	0	0
Stage 2	20.37	0	0
Stage 2	20.17	0	0
Stage 2	19.97	0	0
Stage 2	19.77	0	0
Stage 2	19.57	0	0
Stage 2	19.37	0	0
Stage 2	19.17	0	0
Stage 2	18.97	0	0
Stage 2	18.77	0	0
Stage 2	18.57	0	0
Stage 2	18.37	0	0
Stage 2	18.17	0	0
Stage 2	17.97	0	0
Stage 2	17.77	0	0
Stage 2	17.57	0	0
Stage 2	17.37	0	0
Stage 2	17.17	0	0
Stage 2	16.97	0	0
Stage 2	16.77	0	0
Stage 2	16.57	0	0
Stage 2	16.37	0	0
Stage 2	16.32	0	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	40.52	0	0
Stage 2	40.32	0	0
Stage 2	40.12	0	0
Stage 2	40.02	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 3

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	40.02	0	0
Stage 3	39.82	0	0
Stage 3	39.82	0	0
Stage 3	39.62	-0.67	-3.34
Stage 3	39.42	-2.68	-10.03
Stage 3	39.22	-6.49	-19.09
Stage 3	39.02	-12.32	-29.11
Stage 3	38.82	-20.33	-40.08
Stage 3	38.62	-30.72	-51.93
Stage 3	38.42	-43.64	-64.62
Stage 3	38.22	-59.25	-78.02
Stage 3	38.02	-77.64	-91.98
Stage 3	37.87	-93.32	-104.53
Stage 3	37.67	-77.36	79.8
Stage 3	37.47	-64.27	65.46
Stage 3	37.27	-53.97	51.47
Stage 3	37.07	-46.35	38.1
Stage 3	36.87	-41.24	25.57
Stage 3	36.67	-38.46	13.92
Stage 3	36.47	-37.16	6.49
Stage 3	36.27	-36.39	3.85
Stage 3	36.07	-35.53	4.28
Stage 3	35.87	-34.56	4.89
Stage 3	35.67	-33.42	5.66
Stage 3	35.47	-32.12	6.54
Stage 3	35.37	-31.39	7.26
Stage 3	35.17	-29.79	8.01
Stage 3	34.97	-27.98	9.02
Stage 3	34.77	-25.98	10.03
Stage 3	34.57	-23.79	10.95
Stage 3	34.37	-21.44	11.72
Stage 3	34.17	-18.97	12.35
Stage 3	33.97	-16.42	12.75
Stage 3	33.77	-13.91	12.57
Stage 3	33.57	-11.52	11.97
Stage 3	33.37	-9.31	11.05
Stage 3	33.17	-7.31	9.98
Stage 3	32.97	-5.55	8.82
Stage 3	32.87	-4.75	7.94
Stage 3	32.67	-3.34	7.07
Stage 3	32.47	-2.15	5.94
Stage 3	32.27	-1.17	4.88
Stage 3	32.07	-0.39	3.92
Stage 3	31.87	0.22	3.04
Stage 3	31.67	0.67	2.28
Stage 3	31.47	1	1.62
Stage 3	31.27	1.21	1.06
Stage 3	31.07	1.33	0.6
Stage 3	30.87	1.38	0.23
Stage 3	30.67	1.37	-0.06
Stage 3	30.47	1.31	-0.28
Stage 3	30.37	1.27	-0.39
Stage 3	30.17	1.17	-0.49
Stage 3	29.97	1.06	-0.57
Stage 3	29.77	0.94	-0.62
Stage 3	29.57	0.81	-0.64
Stage 3	29.37	0.68	-0.63
Stage 3	29.17	0.56	-0.6
Stage 3	28.97	0.45	-0.55
Stage 3	28.77	0.35	-0.5
Stage 3	28.57	0.27	-0.44
Stage 3	28.37	0.19	-0.38
Stage 3	28.17	0.13	-0.32
Stage 3	27.97	0.08	-0.26
Stage 3	27.87	0.05	-0.22
Stage 3	27.67	0.02	-0.19
Stage 3	27.47	-0.01	-0.14

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	27.27	-0.03	-0.11
Stage 3	27.07	-0.05	-0.07
Stage 3	26.87	-0.06	-0.05
Stage 3	26.67	-0.06	-0.02
Stage 3	26.47	-0.06	-0.01
Stage 3	26.27	-0.06	0.01
Stage 3	26.07	-0.06	0.02
Stage 3	25.87	-0.06	0.02
Stage 3	25.67	-0.05	0.03
Stage 3	25.47	-0.04	0.03
Stage 3	25.37	-0.04	0.03
Stage 3	25.17	-0.04	0.03
Stage 3	24.97	-0.03	0.03
Stage 3	24.77	-0.02	0.03
Stage 3	24.57	-0.02	0.02
Stage 3	24.37	-0.02	0.02
Stage 3	24.17	-0.01	0.02
Stage 3	23.97	-0.01	0.02
Stage 3	23.77	-0.01	0.01
Stage 3	23.57	0	0.01
Stage 3	23.37	0	0.01
Stage 3	23.17	0	0.01
Stage 3	22.97	0	0.01
Stage 3	22.77	0	0
Stage 3	22.57	0	0
Stage 3	22.37	0	0
Stage 3	22.17	0	0
Stage 3	21.97	0	0
Stage 3	21.77	0	0
Stage 3	21.57	0	0
Stage 3	21.37	0	0
Stage 3	21.17	0	0
Stage 3	20.97	0	0
Stage 3	20.77	0	0
Stage 3	20.57	0	0
Stage 3	20.37	0	0
Stage 3	20.17	0	0
Stage 3	19.97	0	0
Stage 3	19.77	0	0
Stage 3	19.57	0	0
Stage 3	19.37	0	0
Stage 3	19.17	0	0
Stage 3	18.97	0	0
Stage 3	18.77	0	0
Stage 3	18.57	0	0
Stage 3	18.37	0	0
Stage 3	18.17	0	0
Stage 3	17.97	0	0
Stage 3	17.77	0	0
Stage 3	17.57	0	0
Stage 3	17.37	0	0
Stage 3	17.17	0	0
Stage 3	16.97	0	0
Stage 3	16.77	0	0
Stage 3	16.57	0	0
Stage 3	16.37	0	0
Stage 3	16.32	0	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	40.52	0	0
Stage 3	40.32	0	0
Stage 3	40.12	0	0
Stage 3	40.02	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 4

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	40.02	0	0
Stage 4	39.82	0	0
Stage 4	39.82	0	0
Stage 4	39.62	-0.67	-3.34
Stage 4	39.42	-2.68	-10.03
Stage 4	39.22	-6.69	-20.06
Stage 4	39.02	-13.06	-31.86
Stage 4	38.82	-21.86	-44.02
Stage 4	38.62	-33.16	-56.48
Stage 4	38.42	-47	-69.18
Stage 4	38.22	-63.33	-81.67
Stage 4	38.02	-82.08	-93.75
Stage 4	37.87	-97.65	-103.8
Stage 4	37.67	-80.15	87.49
Stage 4	37.47	-64.6	77.74
Stage 4	37.27	-50.74	69.34
Stage 4	37.07	-38.25	62.44
Stage 4	36.87	-26.82	57.14
Stage 4	36.67	-16.45	51.85
Stage 4	36.47	-7.21	46.22
Stage 4	36.27	0.85	40.26
Stage 4	36.07	7.64	33.96
Stage 4	35.87	13.1	27.32
Stage 4	35.67	17.17	20.35
Stage 4	35.47	19.78	13.04
Stage 4	35.37	20.51	7.31
Stage 4	35.17	20.8	1.45
Stage 4	34.97	19.46	-6.7
Stage 4	34.77	16.42	-15.18
Stage 4	34.57	11.96	-22.33
Stage 4	34.37	6.66	-26.47
Stage 4	34.17	1.14	-27.6
Stage 4	33.97	-4	-25.73
Stage 4	33.77	-8.24	-21.21
Stage 4	33.57	-11.67	-17.15
Stage 4	33.37	-14.38	-13.53
Stage 4	33.17	-16.44	-10.31
Stage 4	32.97	-17.94	-7.46
Stage 4	32.87	-18.49	-5.58
Stage 4	32.67	-19.26	-3.82
Stage 4	32.47	-19.61	-1.75
Stage 4	32.27	-19.59	0.06
Stage 4	32.07	-19.26	1.65
Stage 4	31.87	-18.66	3.04
Stage 4	31.67	-17.8	4.26
Stage 4	31.47	-16.74	5.34
Stage 4	31.27	-15.46	6.36
Stage 4	31.07	-14.07	6.99
Stage 4	30.87	-12.6	7.32
Stage 4	30.67	-11.13	7.38
Stage 4	30.47	-9.68	7.23
Stage 4	30.37	-8.98	7.01
Stage 4	30.17	-7.63	6.74
Stage 4	29.97	-6.37	6.28
Stage 4	29.77	-5.22	5.75
Stage 4	29.57	-4.19	5.18
Stage 4	29.37	-3.27	4.6
Stage 4	29.17	-2.46	4.02
Stage 4	28.97	-1.77	3.47
Stage 4	28.77	-1.18	2.95
Stage 4	28.57	-0.68	2.47
Stage 4	28.37	-0.28	2.03
Stage 4	28.17	0.05	1.63
Stage 4	27.97	0.3	1.27
Stage 4	27.87	0.41	1.04
Stage 4	27.67	0.57	0.82
Stage 4	27.47	0.69	0.58

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	27.27	0.76	0.37
Stage 4	27.07	0.8	0.19
Stage 4	26.87	0.81	0.05
Stage 4	26.67	0.8	-0.06
Stage 4	26.47	0.77	-0.15
Stage 4	26.27	0.72	-0.21
Stage 4	26.07	0.67	-0.26
Stage 4	25.87	0.61	-0.29
Stage 4	25.67	0.55	-0.31
Stage 4	25.47	0.49	-0.32
Stage 4	25.37	0.46	-0.31
Stage 4	25.17	0.4	-0.31
Stage 4	24.97	0.34	-0.3
Stage 4	24.77	0.28	-0.28
Stage 4	24.57	0.23	-0.25
Stage 4	24.37	0.18	-0.23
Stage 4	24.17	0.14	-0.2
Stage 4	23.97	0.11	-0.18
Stage 4	23.77	0.08	-0.15
Stage 4	23.57	0.05	-0.13
Stage 4	23.37	0.03	-0.11
Stage 4	23.17	0.01	-0.09
Stage 4	22.97	0	-0.07
Stage 4	22.77	-0.01	-0.06
Stage 4	22.57	-0.02	-0.04
Stage 4	22.37	-0.03	-0.03
Stage 4	22.17	-0.03	-0.02
Stage 4	21.97	-0.03	-0.01
Stage 4	21.77	-0.04	0
Stage 4	21.57	-0.03	0
Stage 4	21.37	-0.03	0.01
Stage 4	21.17	-0.03	0.01
Stage 4	20.97	-0.03	0.01
Stage 4	20.77	-0.03	0.01
Stage 4	20.57	-0.02	0.01
Stage 4	20.37	-0.02	0.01
Stage 4	20.17	-0.02	0.01
Stage 4	19.97	-0.02	0.01
Stage 4	19.77	-0.01	0.01
Stage 4	19.57	-0.01	0.01
Stage 4	19.37	-0.01	0.01
Stage 4	19.17	-0.01	0.01
Stage 4	18.97	-0.01	0.01
Stage 4	18.77	0	0.01
Stage 4	18.57	0	0.01
Stage 4	18.37	0	0
Stage 4	18.17	0	0
Stage 4	17.97	0	0
Stage 4	17.77	0	0
Stage 4	17.57	0	0
Stage 4	17.37	0	0
Stage 4	17.17	0	0
Stage 4	16.97	0	0
Stage 4	16.77	0	0
Stage 4	16.57	0	0
Stage 4	16.37	0	0
Stage 4	16.32	0	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	40.52	0	0
Stage 4	40.32	0	0
Stage 4	40.12	0	0
Stage 4	40.02	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 5

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	40.02	0	0
Stage 5	39.82	0	0
Stage 5	39.82	0	0
Stage 5	39.62	-0.09	-0.44
Stage 5	39.42	-1.06	-4.84
Stage 5	39.22	-3.69	-13.19
Stage 5	39.02	-8.48	-23.92
Stage 5	38.82	-15.61	-35.63
Stage 5	38.62	-25.25	-48.22
Stage 5	38.42	-37.54	-61.46
Stage 5	38.22	-52.59	-75.25
Stage 5	38.02	-70.48	-89.45
Stage 5	37.87	-85.79	-102.08
Stage 5	37.67	-69.35	82.23
Stage 5	37.47	-55.73	68.07
Stage 5	37.27	-44.85	54.41
Stage 5	37.07	-36.57	41.38
Stage 5	36.87	-30.76	29.05
Stage 5	36.67	-27.53	16.2
Stage 5	36.47	-26.96	2.82
Stage 5	36.27	-29.18	-11.08
Stage 5	36.07	-34.27	-25.47
Stage 5	35.87	-42.34	-40.33
Stage 5	35.67	-53.46	-55.6
Stage 5	35.47	-67.7	-71.21
Stage 5	35.37	-76.01	-83.09
Stage 5	35.17	-55.62	101.95
Stage 5	34.97	-38.41	86.04
Stage 5	34.77	-24.36	70.24
Stage 5	34.57	-13.43	54.65
Stage 5	34.37	-5.56	39.36
Stage 5	34.17	-0.39	25.86
Stage 5	33.97	2.93	16.59
Stage 5	33.77	5.18	11.22
Stage 5	33.57	6.5	6.64
Stage 5	33.37	7.07	2.84
Stage 5	33.17	7.02	-0.25
Stage 5	32.97	6.49	-2.67
Stage 5	32.87	6.09	-4.02
Stage 5	32.67	5.05	-5.16
Stage 5	32.47	3.82	-6.16
Stage 5	32.27	2.48	-6.68
Stage 5	32.07	1.15	-6.68
Stage 5	31.87	-0.1	-6.24
Stage 5	31.67	-1.19	-5.46
Stage 5	31.47	-2.1	-4.56
Stage 5	31.27	-2.83	-3.62
Stage 5	31.07	-3.35	-2.64
Stage 5	30.87	-3.7	-1.72
Stage 5	30.67	-3.89	-0.95
Stage 5	30.47	-3.95	-0.31
Stage 5	30.37	-3.94	0.1
Stage 5	30.17	-3.85	0.46
Stage 5	29.97	-3.68	0.85
Stage 5	29.77	-3.45	1.15
Stage 5	29.57	-3.17	1.37
Stage 5	29.37	-2.87	1.51
Stage 5	29.17	-2.56	1.58
Stage 5	28.97	-2.24	1.6
Stage 5	28.77	-1.92	1.57
Stage 5	28.57	-1.62	1.51
Stage 5	28.37	-1.34	1.42
Stage 5	28.17	-1.07	1.32
Stage 5	27.97	-0.83	1.2
Stage 5	27.87	-0.72	1.1
Stage 5	27.67	-0.52	1
Stage 5	27.47	-0.35	0.87

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	27.27	-0.2	0.74
Stage 5	27.07	-0.08	0.62
Stage 5	26.87	0.02	0.5
Stage 5	26.67	0.1	0.4
Stage 5	26.47	0.16	0.3
Stage 5	26.27	0.21	0.22
Stage 5	26.07	0.24	0.15
Stage 5	25.87	0.26	0.09
Stage 5	25.67	0.27	0.04
Stage 5	25.47	0.27	0
Stage 5	25.37	0.26	-0.02
Stage 5	25.17	0.25	-0.05
Stage 5	24.97	0.24	-0.07
Stage 5	24.77	0.22	-0.09
Stage 5	24.57	0.2	-0.1
Stage 5	24.37	0.18	-0.1
Stage 5	24.17	0.16	-0.11
Stage 5	23.97	0.14	-0.11
Stage 5	23.77	0.12	-0.1
Stage 5	23.57	0.1	-0.1
Stage 5	23.37	0.08	-0.09
Stage 5	23.17	0.06	-0.08
Stage 5	22.97	0.05	-0.07
Stage 5	22.77	0.04	-0.06
Stage 5	22.57	0.03	-0.06
Stage 5	22.37	0.02	-0.05
Stage 5	22.17	0.01	-0.04
Stage 5	21.97	0	-0.03
Stage 5	21.77	0	-0.03
Stage 5	21.57	-0.01	-0.02
Stage 5	21.37	-0.01	-0.01
Stage 5	21.17	-0.01	-0.01
Stage 5	20.97	-0.01	-0.01
Stage 5	20.77	-0.01	0
Stage 5	20.57	-0.01	0
Stage 5	20.37	-0.01	0
Stage 5	20.17	-0.01	0
Stage 5	19.97	-0.01	0
Stage 5	19.77	-0.01	0
Stage 5	19.57	-0.01	0.01
Stage 5	19.37	-0.01	0.01
Stage 5	19.17	-0.01	0.01
Stage 5	18.97	-0.01	0.01
Stage 5	18.77	-0.01	0.01
Stage 5	18.57	-0.01	0.01
Stage 5	18.37	0	0
Stage 5	18.17	0	0
Stage 5	17.97	0	0
Stage 5	17.77	0	0
Stage 5	17.57	0	0
Stage 5	17.37	0	0
Stage 5	17.17	0	0
Stage 5	16.97	0	0
Stage 5	16.77	0	0
Stage 5	16.57	0	0
Stage 5	16.37	0	0
Stage 5	16.32	0	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	40.52	0	0
Stage 5	40.32	0	0
Stage 5	40.12	0	0
Stage 5	40.02	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 6

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	40.02	0	0
Stage 6	39.82	0	0
Stage 6	39.82	0	0
Stage 6	39.62	-0.43	-2.16
Stage 6	39.42	-2.07	-8.18
Stage 6	39.22	-5.68	-18.05
Stage 6	39.02	-11.69	-30.08
Stage 6	38.82	-20.25	-42.78
Stage 6	38.62	-31.48	-56.13
Stage 6	38.42	-45.49	-70.06
Stage 6	38.22	-62.38	-84.45
Stage 6	38.02	-82.21	-99.16
Stage 6	37.87	-99.03	-112.15
Stage 6	37.67	-84.81	71.1
Stage 6	37.47	-73.47	56.72
Stage 6	37.27	-64.86	43.03
Stage 6	37.07	-58.81	30.25
Stage 6	36.87	-55.11	18.52
Stage 6	36.67	-53.78	6.64
Stage 6	36.47	-54.85	-5.33
Stage 6	36.27	-58.31	-17.33
Stage 6	36.07	-64.17	-29.27
Stage 6	35.87	-72.38	-41.07
Stage 6	35.67	-82.9	-52.6
Stage 6	35.47	-95.65	-63.73
Stage 6	35.37	-102.81	-71.64
Stage 6	35.17	-77.39	127.11
Stage 6	34.97	-53.83	117.81
Stage 6	34.77	-31.96	109.32
Stage 6	34.57	-11.86	100.5
Stage 6	34.37	6.41	91.35
Stage 6	34.17	22.78	81.86
Stage 6	33.97	37.19	72.03
Stage 6	33.77	49.56	61.86
Stage 6	33.57	59.83	51.36
Stage 6	33.37	67.94	40.53
Stage 6	33.17	73.81	29.36
Stage 6	32.97	77.38	17.85
Stage 6	32.87	78.27	8.96
Stage 6	32.67	78.26	-0.05
Stage 6	32.47	75.79	-12.39
Stage 6	32.27	70.77	-25.08
Stage 6	32.07	63.49	-36.43
Stage 6	31.87	54.53	-44.77
Stage 6	31.67	44.51	-50.1
Stage 6	31.47	34.03	-52.42
Stage 6	31.27	23.68	-51.74
Stage 6	31.07	14.07	-48.04
Stage 6	30.87	5.7	-41.85
Stage 6	30.67	-1.51	-36.06
Stage 6	30.47	-7.65	-30.69
Stage 6	30.37	-10.34	-26.97
Stage 6	30.17	-15.03	-23.41
Stage 6	29.97	-18.84	-19.06
Stage 6	29.77	-21.86	-15.1
Stage 6	29.57	-24.16	-11.51
Stage 6	29.37	-25.81	-8.26
Stage 6	29.17	-26.88	-5.34
Stage 6	28.97	-27.42	-2.72
Stage 6	28.77	-27.5	-0.37
Stage 6	28.57	-27.15	1.73
Stage 6	28.37	-26.43	3.61
Stage 6	28.17	-25.37	5.3
Stage 6	27.97	-24	6.83
Stage 6	27.87	-23.22	7.8
Stage 6	27.67	-21.5	8.61
Stage 6	27.47	-19.64	9.3

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	27.27	-17.71	9.65
Stage 6	27.07	-15.77	9.7
Stage 6	26.87	-13.87	9.52
Stage 6	26.67	-12.03	9.17
Stage 6	26.47	-10.29	8.68
Stage 6	26.27	-8.67	8.1
Stage 6	26.07	-7.18	7.45
Stage 6	25.87	-5.83	6.76
Stage 6	25.67	-4.62	6.05
Stage 6	25.47	-3.55	5.36
Stage 6	25.37	-3.07	4.85
Stage 6	25.17	-2.19	4.35
Stage 6	24.97	-1.45	3.73
Stage 6	24.77	-0.82	3.15
Stage 6	24.57	-0.3	2.61
Stage 6	24.37	0.13	2.13
Stage 6	24.17	0.47	1.69
Stage 6	23.97	0.73	1.31
Stage 6	23.77	0.92	0.97
Stage 6	23.57	1.06	0.68
Stage 6	23.37	1.15	0.43
Stage 6	23.17	1.19	0.22
Stage 6	22.97	1.2	0.05
Stage 6	22.77	1.18	-0.09
Stage 6	22.57	1.14	-0.2
Stage 6	22.37	1.09	-0.28
Stage 6	22.17	1.02	-0.34
Stage 6	21.97	0.94	-0.39
Stage 6	21.77	0.86	-0.41
Stage 6	21.57	0.77	-0.43
Stage 6	21.37	0.69	-0.43
Stage 6	21.17	0.6	-0.42
Stage 6	20.97	0.52	-0.4
Stage 6	20.77	0.45	-0.38
Stage 6	20.57	0.38	-0.35
Stage 6	20.37	0.31	-0.32
Stage 6	20.17	0.26	-0.29
Stage 6	19.97	0.2	-0.26
Stage 6	19.77	0.16	-0.22
Stage 6	19.57	0.12	-0.19
Stage 6	19.37	0.09	-0.16
Stage 6	19.17	0.06	-0.14
Stage 6	18.97	0.04	-0.11
Stage 6	18.77	0.02	-0.09
Stage 6	18.57	0.01	-0.07
Stage 6	18.37	0	-0.05
Stage 6	18.17	-0.01	-0.03
Stage 6	17.97	-0.01	-0.02
Stage 6	17.77	-0.01	-0.01
Stage 6	17.57	-0.01	0
Stage 6	17.37	-0.01	0.01
Stage 6	17.17	-0.01	0.01
Stage 6	16.97	-0.01	0.01
Stage 6	16.77	0	0.01
Stage 6	16.57	0	0.01
Stage 6	16.37	0	0.01
Stage 6	16.32	0	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	40.52	0	0
Stage 6	40.32	0	0
Stage 6	40.12	0	0
Stage 6	40.02	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 7

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	40.02	0	0
Stage 7	39.82	0	0
Stage 7	39.82	0	0
Stage 7	39.62	-0.23	-1.16
Stage 7	39.42	-1.48	-6.23
Stage 7	39.22	-4.52	-15.22
Stage 7	39.02	-9.8	-26.4
Stage 7	38.82	-17.47	-38.32
Stage 7	38.62	-27.66	-50.94
Stage 7	38.42	-40.5	-64.21
Stage 7	38.22	-56.1	-78.01
Stage 7	38.02	-74.54	-92.22
Stage 7	37.87	-90.27	-104.85
Stage 7	37.67	-74.43	79.19
Stage 7	37.47	-61.43	65
Stage 7	37.27	-51.16	51.34
Stage 7	37.07	-43.48	38.44
Stage 7	36.87	-38.21	26.35
Stage 7	36.67	-35.43	13.89
Stage 7	36.47	-35.22	1.06
Stage 7	36.27	-37.64	-12.12
Stage 7	36.07	-42.76	-25.6
Stage 7	35.87	-50.63	-39.34
Stage 7	35.67	-61.28	-53.26
Stage 7	35.47	-74.73	-67.27
Stage 7	35.37	-82.51	-77.76
Stage 7	35.17	-60.1	112.07
Stage 7	34.97	-40.41	98.44
Stage 7	34.77	-23.41	84.98
Stage 7	34.57	-9.31	70.52
Stage 7	34.37	1.7	55.02
Stage 7	34.17	9.47	38.87
Stage 7	33.97	13.9	22.16
Stage 7	33.77	14.89	4.91
Stage 7	33.57	12.32	-12.83
Stage 7	33.37	6.11	-31.03
Stage 7	33.17	-3.82	-49.65
Stage 7	32.97	-17.54	-68.6
Stage 7	32.87	-25.84	-83
Stage 7	32.67	-5.94	99.5
Stage 7	32.47	10.09	80.15
Stage 7	32.27	22.25	60.79
Stage 7	32.07	30.57	41.57
Stage 7	31.87	35.1	22.66
Stage 7	31.67	36.34	6.18
Stage 7	31.47	35.08	-6.29
Stage 7	31.27	32.13	-14.73
Stage 7	31.07	28.3	-19.16
Stage 7	30.87	24.28	-20.12
Stage 7	30.67	20.17	-20.54
Stage 7	30.47	16.06	-20.52
Stage 7	30.37	14.04	-20.2
Stage 7	30.17	10.09	-19.76
Stage 7	29.97	6.32	-18.87
Stage 7	29.77	2.77	-17.73
Stage 7	29.57	-0.5	-16.38
Stage 7	29.37	-3.47	-14.83
Stage 7	29.17	-6.08	-13.06
Stage 7	28.97	-8.31	-11.12
Stage 7	28.77	-10.12	-9.07
Stage 7	28.57	-11.55	-7.12
Stage 7	28.37	-12.6	-5.26
Stage 7	28.17	-13.3	-3.5
Stage 7	27.97	-13.66	-1.81
Stage 7	27.87	-13.72	-0.64
Stage 7	27.67	-13.62	0.5
Stage 7	27.47	-13.25	1.87

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	27.27	-12.66	2.93
Stage 7	27.07	-11.92	3.7
Stage 7	26.87	-11.07	4.26
Stage 7	26.67	-10.15	4.64
Stage 7	26.47	-9.17	4.87
Stage 7	26.27	-8.18	4.94
Stage 7	26.07	-7.21	4.89
Stage 7	25.87	-6.26	4.74
Stage 7	25.67	-5.36	4.5
Stage 7	25.47	-4.51	4.22
Stage 7	25.37	-4.12	3.98
Stage 7	25.17	-3.37	3.73
Stage 7	24.97	-2.7	3.38
Stage 7	24.77	-2.09	3.02
Stage 7	24.57	-1.56	2.66
Stage 7	24.37	-1.09	2.32
Stage 7	24.17	-0.7	1.99
Stage 7	23.97	-0.36	1.68
Stage 7	23.77	-0.08	1.4
Stage 7	23.57	0.15	1.13
Stage 7	23.37	0.32	0.9
Stage 7	23.17	0.46	0.69
Stage 7	22.97	0.56	0.5
Stage 7	22.77	0.63	0.34
Stage 7	22.57	0.67	0.21
Stage 7	22.37	0.69	0.1
Stage 7	22.17	0.69	0.01
Stage 7	21.97	0.68	-0.07
Stage 7	21.77	0.66	-0.13
Stage 7	21.57	0.62	-0.17
Stage 7	21.37	0.58	-0.2
Stage 7	21.17	0.54	-0.22
Stage 7	20.97	0.49	-0.24
Stage 7	20.77	0.44	-0.25
Stage 7	20.57	0.39	-0.25
Stage 7	20.37	0.34	-0.24
Stage 7	20.17	0.3	-0.23
Stage 7	19.97	0.25	-0.22
Stage 7	19.77	0.21	-0.2
Stage 7	19.57	0.18	-0.18
Stage 7	19.37	0.14	-0.16
Stage 7	19.17	0.12	-0.14
Stage 7	18.97	0.09	-0.12
Stage 7	18.77	0.07	-0.11
Stage 7	18.57	0.05	-0.09
Stage 7	18.37	0.04	-0.07
Stage 7	18.17	0.03	-0.06
Stage 7	17.97	0.02	-0.04
Stage 7	17.77	0.01	-0.03
Stage 7	17.57	0.01	-0.02
Stage 7	17.37	0	-0.02
Stage 7	17.17	0	-0.01
Stage 7	16.97	0	0
Stage 7	16.77	0	0
Stage 7	16.57	0	0
Stage 7	16.37	0	0
Stage 7	16.32	0	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	40.52	0	0
Stage 7	40.32	0	0
Stage 7	40.12	0	0
Stage 7	40.02	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 8

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	40.02	0	0
Stage 8	39.82	0	0
Stage 8	39.82	0	0
Stage 8	39.62	-0.31	-1.54
Stage 8	39.42	-1.73	-7.08
Stage 8	39.22	-5.05	-16.62
Stage 8	39.02	-10.74	-28.46
Stage 8	38.82	-18.96	-41.11
Stage 8	38.62	-29.87	-54.52
Stage 8	38.42	-43.59	-68.6
Stage 8	38.22	-60.24	-83.24
Stage 8	38.02	-79.9	-98.31
Stage 8	37.87	-96.65	-111.69
Stage 8	37.67	-82.83	69.13
Stage 8	37.47	-72.01	54.08
Stage 8	37.27	-64.11	39.51
Stage 8	37.07	-58.99	25.57
Stage 8	36.87	-56.52	12.38
Stage 8	36.67	-56.72	-1.02
Stage 8	36.47	-59.68	-14.81
Stage 8	36.27	-65.47	-28.95
Stage 8	36.07	-74.15	-43.39
Stage 8	35.87	-85.74	-57.94
Stage 8	35.67	-100.23	-72.44
Stage 8	35.47	-117.58	-86.76
Stage 8	35.37	-127.3	-97.2
Stage 8	35.17	-108.63	93.35
Stage 8	34.97	-92.54	80.42
Stage 8	34.77	-78.9	68.2
Stage 8	34.57	-67.79	55.59
Stage 8	34.37	-59.25	42.65
Stage 8	34.17	-53.28	29.87
Stage 8	33.97	-49.8	17.43
Stage 8	33.77	-48.71	5.45
Stage 8	33.57	-49.89	-5.92
Stage 8	33.37	-53.24	-16.75
Stage 8	33.17	-58.82	-27.92
Stage 8	32.97	-66.71	-39.43
Stage 8	32.87	-71.54	-48.31
Stage 8	32.67	-37.6	169.71
Stage 8	32.47	-6.13	157.37
Stage 8	32.27	22.81	144.68
Stage 8	32.07	49.14	131.66
Stage 8	31.87	72.8	118.31
Stage 8	31.67	93.73	104.61
Stage 8	31.47	111.85	90.59
Stage 8	31.27	127.09	76.22
Stage 8	31.07	139.39	61.52
Stage 8	30.87	148.69	46.49
Stage 8	30.67	154.91	31.11
Stage 8	30.47	158	15.41
Stage 8	30.37	158.33	3.37
Stage 8	30.17	156.58	-8.79
Stage 8	29.97	151.51	-25.33
Stage 8	29.77	143.07	-42.22
Stage 8	29.57	131.51	-57.77
Stage 8	29.37	117.45	-70.31
Stage 8	29.17	101.48	-79.84
Stage 8	28.97	84.21	-86.36
Stage 8	28.77	66.23	-89.88
Stage 8	28.57	48.16	-90.39
Stage 8	28.37	30.58	-87.89
Stage 8	28.17	14.1	-82.38
Stage 8	27.97	-0.67	-73.86
Stage 8	27.87	-7.28	-66.1
Stage 8	27.67	-19	-58.63
Stage 8	27.47	-28.89	-49.44

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	27.27	-37.09	-41.01
Stage 8	27.07	-43.75	-33.31
Stage 8	26.87	-49.01	-26.31
Stage 8	26.67	-53.01	-19.99
Stage 8	26.47	-55.87	-14.29
Stage 8	26.27	-57.71	-9.18
Stage 8	26.07	-58.63	-4.62
Stage 8	25.87	-58.75	-0.57
Stage 8	25.67	-58.14	3.03
Stage 8	25.47	-56.9	6.21
Stage 8	25.37	-56.07	8.31
Stage 8	25.17	-54.01	10.29
Stage 8	24.97	-51.48	12.62
Stage 8	24.77	-48.55	14.68
Stage 8	24.57	-45.25	16.5
Stage 8	24.37	-41.69	17.8
Stage 8	24.17	-37.99	18.51
Stage 8	23.97	-34.23	18.77
Stage 8	23.77	-30.51	18.61
Stage 8	23.57	-26.89	18.11
Stage 8	23.37	-23.42	17.35
Stage 8	23.17	-20.14	16.39
Stage 8	22.97	-17.08	15.29
Stage 8	22.77	-14.27	14.09
Stage 8	22.57	-11.7	12.83
Stage 8	22.37	-9.39	11.54
Stage 8	22.17	-7.34	10.28
Stage 8	21.97	-5.53	9.05
Stage 8	21.77	-3.95	7.88
Stage 8	21.57	-2.59	6.78
Stage 8	21.37	-1.45	5.74
Stage 8	21.17	-0.49	4.79
Stage 8	20.97	0.3	3.92
Stage 8	20.77	0.92	3.14
Stage 8	20.57	1.41	2.43
Stage 8	20.37	1.77	1.81
Stage 8	20.17	2.02	1.26
Stage 8	19.97	2.18	0.78
Stage 8	19.77	2.25	0.37
Stage 8	19.57	2.26	0.03
Stage 8	19.37	2.21	-0.25
Stage 8	19.17	2.11	-0.48
Stage 8	18.97	1.98	-0.67
Stage 8	18.77	1.82	-0.81
Stage 8	18.57	1.64	-0.91
Stage 8	18.37	1.44	-0.97
Stage 8	18.17	1.24	-1.01
Stage 8	17.97	1.04	-1.01
Stage 8	17.77	0.84	-0.99
Stage 8	17.57	0.65	-0.94
Stage 8	17.37	0.48	-0.86
Stage 8	17.17	0.33	-0.76
Stage 8	16.97	0.2	-0.64
Stage 8	16.77	0.1	-0.5
Stage 8	16.57	0.03	-0.34
Stage 8	16.37	0	-0.15
Stage 8	16.32	0	-0.03

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	40.52	0	0
Stage 8	40.32	0	0
Stage 8	40.12	0	0
Stage 8	40.02	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 9

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	40.02	0	0
Stage 9	39.82	0	0
Stage 9	39.82	0	0
Stage 9	39.62	-0.3	-1.51
Stage 9	39.42	-1.7	-6.98
Stage 9	39.22	-4.98	-16.43
Stage 9	39.02	-10.61	-28.13
Stage 9	38.82	-18.73	-40.62
Stage 9	38.62	-29.5	-53.83
Stage 9	38.42	-43.04	-67.68
Stage 9	38.22	-59.45	-82.06
Stage 9	38.02	-78.81	-96.83
Stage 9	37.87	-95.3	-109.93
Stage 9	37.67	-80.92	71.9
Stage 9	37.47	-69.48	57.22
Stage 9	37.27	-60.87	43.03
Stage 9	37.07	-54.97	29.51
Stage 9	36.87	-51.62	16.74
Stage 9	36.67	-50.87	3.77
Stage 9	36.47	-52.79	-9.59
Stage 9	36.27	-57.45	-23.31
Stage 9	36.07	-64.92	-37.35
Stage 9	35.87	-75.23	-51.54
Stage 9	35.67	-88.37	-65.74
Stage 9	35.47	-104.34	-79.81
Stage 9	35.37	-113.35	-90.14
Stage 9	35.17	-93.21	100.71
Stage 9	34.97	-75.65	87.77
Stage 9	34.77	-60.58	75.38
Stage 9	34.57	-48.09	62.43
Stage 9	34.37	-38.3	48.96
Stage 9	34.17	-31.22	35.41
Stage 9	33.97	-26.83	21.92
Stage 9	33.77	-25.11	8.6
Stage 9	33.57	-26	-4.45
Stage 9	33.37	-29.47	-17.35
Stage 9	33.17	-35.67	-31.01
Stage 9	32.97	-44.77	-45.46
Stage 9	32.87	-50.46	-56.92
Stage 9	32.67	-20.56	149.49
Stage 9	32.47	6.02	132.9
Stage 9	32.27	29.1	115.4
Stage 9	32.07	48.49	96.96
Stage 9	31.87	64.02	77.63
Stage 9	31.67	75.57	57.76
Stage 9	31.47	83.04	37.36
Stage 9	31.27	86.33	16.46
Stage 9	31.07	85.35	-4.91
Stage 9	30.87	80	-26.73
Stage 9	30.67	70.22	-48.94
Stage 9	30.47	55.92	-71.49
Stage 9	30.37	47.06	-88.6
Stage 9	30.17	65.29	91.18
Stage 9	29.97	78.92	68.14
Stage 9	29.77	87.93	45.07
Stage 9	29.57	92.36	22.13
Stage 9	29.37	92.25	-0.53
Stage 9	29.17	88.15	-20.51
Stage 9	28.97	80.82	-36.67
Stage 9	28.77	71.02	-48.98
Stage 9	28.57	59.53	-57.43
Stage 9	28.37	47.13	-62.03
Stage 9	28.17	34.57	-62.8
Stage 9	27.97	22.61	-59.78
Stage 9	27.87	17.05	-55.59
Stage 9	27.67	6.76	-51.44
Stage 9	27.47	-2.44	-46.03

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	27.27	-10.6	-40.78
Stage 9	27.07	-17.75	-35.73
Stage 9	26.87	-23.92	-30.87
Stage 9	26.67	-29.14	-26.12
Stage 9	26.47	-33.45	-21.52
Stage 9	26.27	-36.86	-17.09
Stage 9	26.07	-39.43	-12.85
Stage 9	25.87	-41.23	-8.96
Stage 9	25.67	-42.31	-5.41
Stage 9	25.47	-42.75	-2.19
Stage 9	25.37	-42.74	0.01
Stage 9	25.17	-42.32	2.1
Stage 9	24.97	-41.4	4.63
Stage 9	24.77	-40.02	6.9
Stage 9	24.57	-38.23	8.94
Stage 9	24.37	-36.07	10.79
Stage 9	24.17	-33.64	12.2
Stage 9	23.97	-31.01	13.14
Stage 9	23.77	-28.27	13.7
Stage 9	23.57	-25.48	13.93
Stage 9	23.37	-22.72	13.84
Stage 9	23.17	-20.02	13.49
Stage 9	22.97	-17.43	12.94
Stage 9	22.77	-14.98	12.23
Stage 9	22.57	-12.7	11.41
Stage 9	22.37	-10.6	10.51
Stage 9	22.17	-8.68	9.58
Stage 9	21.97	-6.95	8.63
Stage 9	21.77	-5.42	7.69
Stage 9	21.57	-4.06	6.78
Stage 9	21.37	-2.88	5.9
Stage 9	21.17	-1.87	5.07
Stage 9	20.97	-1.01	4.29
Stage 9	20.77	-0.29	3.56
Stage 9	20.57	0.28	2.9
Stage 9	20.37	0.74	2.3
Stage 9	20.17	1.09	1.75
Stage 9	19.97	1.35	1.27
Stage 9	19.77	1.52	0.85
Stage 9	19.57	1.62	0.49
Stage 9	19.37	1.65	0.18
Stage 9	19.17	1.64	-0.08
Stage 9	18.97	1.58	-0.3
Stage 9	18.77	1.48	-0.47
Stage 9	18.57	1.36	-0.6
Stage 9	18.37	1.22	-0.7
Stage 9	18.17	1.07	-0.77
Stage 9	17.97	0.91	-0.8
Stage 9	17.77	0.75	-0.82
Stage 9	17.57	0.59	-0.8
Stage 9	17.37	0.44	-0.75
Stage 9	17.17	0.3	-0.68
Stage 9	16.97	0.18	-0.58
Stage 9	16.77	0.09	-0.46
Stage 9	16.57	0.03	-0.31
Stage 9	16.37	0	-0.14
Stage 9	16.32	0	-0.02

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	40.52	0	0
Stage 9	40.32	0	0
Stage 9	40.12	0	0
Stage 9	40.02	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 10

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	40.02	0	0
Stage 10	39.82	0	0
Stage 10	39.82	0	0
Stage 10	39.62	-0.22	-1.1
Stage 10	39.42	-1.47	-6.26
Stage 10	39.22	-4.57	-15.5
Stage 10	39.02	-9.99	-27.1
Stage 10	38.82	-17.91	-39.6
Stage 10	38.62	-28.5	-52.92
Stage 10	38.42	-41.89	-66.99
Stage 10	38.22	-58.23	-81.67
Stage 10	38.02	-77.59	-96.82
Stage 10	37.87	-94.14	-110.33
Stage 10	37.67	-80.25	69.47
Stage 10	37.47	-69.41	54.18
Stage 10	37.27	-61.55	39.32
Stage 10	37.07	-56.54	25.03
Stage 10	36.87	-54.26	11.42
Stage 10	36.67	-54.75	-2.46
Stage 10	36.47	-58.11	-16.8
Stage 10	36.27	-64.42	-31.57
Stage 10	36.07	-73.76	-46.7
Stage 10	35.87	-86.19	-62.14
Stage 10	35.67	-101.75	-77.78
Stage 10	35.47	-120.45	-93.51
Stage 10	35.37	-130.96	-105.17
Stage 10	35.17	-115.02	79.71
Stage 10	34.97	-102.03	64.98
Stage 10	34.77	-91.86	50.84
Stage 10	34.57	-84.62	36.19
Stage 10	34.37	-80.4	21.12
Stage 10	34.17	-79.17	6.12
Stage 10	33.97	-80.89	-8.59
Stage 10	33.77	-85.46	-22.87
Stage 10	33.57	-92.77	-36.53
Stage 10	33.37	-102.69	-49.6
Stage 10	33.17	-115.27	-62.91
Stage 10	32.97	-130.55	-76.39
Stage 10	32.87	-139.2	-86.57
Stage 10	32.67	-113.71	127.47
Stage 10	32.47	-90.93	113.9
Stage 10	32.27	-70.84	100.46
Stage 10	32.07	-53.39	87.26
Stage 10	31.87	-38.6	73.91
Stage 10	31.67	-26.56	60.22
Stage 10	31.47	-17.32	46.19
Stage 10	31.27	-10.96	31.82
Stage 10	31.07	-7.53	17.12
Stage 10	30.87	-7.12	2.09
Stage 10	30.67	-9.77	-13.28
Stage 10	30.47	-15.57	-28.99
Stage 10	30.37	-19.67	-41.03
Stage 10	30.17	22.85	212.62
Stage 10	29.97	62.06	196.07
Stage 10	29.77	97.9	179.18
Stage 10	29.57	130.29	161.96
Stage 10	29.37	159.17	144.41
Stage 10	29.17	184.48	126.52
Stage 10	28.97	206.13	108.29
Stage 10	28.77	224.08	89.72
Stage 10	28.57	238.25	70.82
Stage 10	28.37	248.56	51.59
Stage 10	28.17	254.97	32.02
Stage 10	27.97	257.39	12.11
Stage 10	27.87	257.08	-3.07
Stage 10	27.67	253.4	-18.38
Stage 10	27.47	245.58	-39.13

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	27.27	233.53	-60.22
Stage 10	27.07	217.54	-79.96
Stage 10	26.87	198.2	-96.7
Stage 10	26.67	176.11	-110.44
Stage 10	26.47	151.88	-121.16
Stage 10	26.27	126.1	-128.88
Stage 10	26.07	99.39	-133.58
Stage 10	25.87	72.33	-135.28
Stage 10	25.67	45.54	-133.98
Stage 10	25.47	19.6	-129.66
Stage 10	25.37	7.19	-124.17
Stage 10	25.17	-16.32	-117.55
Stage 10	24.97	-37.46	-105.71
Stage 10	24.77	-55.63	-90.87
Stage 10	24.57	-70.77	-75.68
Stage 10	24.37	-83.13	-61.8
Stage 10	24.17	-92.97	-49.18
Stage 10	23.97	-100.52	-37.77
Stage 10	23.77	-106.02	-27.49
Stage 10	23.57	-109.68	-18.29
Stage 10	23.37	-111.7	-10.09
Stage 10	23.17	-112.26	-2.83
Stage 10	22.97	-111.55	3.58
Stage 10	22.77	-109.71	9.2
Stage 10	22.57	-106.89	14.1
Stage 10	22.37	-103.22	18.36
Stage 10	22.17	-98.81	22.05
Stage 10	21.97	-93.76	25.22
Stage 10	21.77	-88.17	27.96
Stage 10	21.57	-82.11	30.31
Stage 10	21.37	-75.68	32.15
Stage 10	21.17	-69.06	33.08
Stage 10	20.97	-62.41	33.28
Stage 10	20.77	-55.85	32.81
Stage 10	20.57	-49.49	31.8
Stage 10	20.37	-43.41	30.37
Stage 10	20.17	-37.69	28.61
Stage 10	19.97	-32.37	26.6
Stage 10	19.77	-27.48	24.44
Stage 10	19.57	-23.05	22.17
Stage 10	19.37	-19.07	19.87
Stage 10	19.17	-15.55	17.6
Stage 10	18.97	-12.47	15.4
Stage 10	18.77	-9.81	13.29
Stage 10	18.57	-7.55	11.3
Stage 10	18.37	-5.66	9.45
Stage 10	18.17	-4.12	7.74
Stage 10	17.97	-2.88	6.19
Stage 10	17.77	-1.91	4.81
Stage 10	17.57	-1.19	3.6
Stage 10	17.37	-0.68	2.57
Stage 10	17.17	-0.34	1.71
Stage 10	16.97	-0.14	1.02
Stage 10	16.77	-0.03	0.51
Stage 10	16.57	0	0.17
Stage 10	16.37	0	0
Stage 10	16.32	0	-0.01

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	40.52	0	0
Stage 10	40.32	0	0
Stage 10	40.12	0	0
Stage 10	40.02	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 11

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 11	40.02	0	0
Stage 11	39.82	0	0
Stage 11	39.82	0	0
Stage 11	39.62	-0.24	-1.22
Stage 11	39.42	-1.54	-6.49
Stage 11	39.22	-4.71	-15.82
Stage 11	39.02	-10.2	-27.48
Stage 11	38.82	-18.21	-40.02
Stage 11	38.62	-28.88	-53.37
Stage 11	38.42	-42.37	-67.43
Stage 11	38.22	-58.79	-82.1
Stage 11	38.02	-78.23	-97.21
Stage 11	37.87	-94.82	-110.65
Stage 11	37.67	-80.94	69.42
Stage 11	37.47	-70.09	54.24
Stage 11	37.27	-62.19	39.51
Stage 11	37.07	-57.11	25.39
Stage 11	36.87	-54.72	11.97
Stage 11	36.67	-55.06	-1.7
Stage 11	36.47	-58.22	-15.8
Stage 11	36.27	-64.28	-30.29
Stage 11	36.07	-73.3	-45.12
Stage 11	35.87	-85.34	-60.22
Stage 11	35.67	-100.45	-75.51
Stage 11	35.47	-118.62	-90.85
Stage 11	35.37	-128.83	-102.2
Stage 11	35.17	-112.01	84.11
Stage 11	34.97	-98.05	69.83
Stage 11	34.77	-86.82	56.15
Stage 11	34.57	-78.42	41.97
Stage 11	34.37	-72.94	27.39
Stage 11	34.17	-70.37	12.87
Stage 11	33.97	-70.65	-1.39
Stage 11	33.77	-73.69	-15.23
Stage 11	33.57	-79.39	-28.49
Stage 11	33.37	-87.64	-41.22
Stage 11	33.17	-98.49	-54.26
Stage 11	32.97	-112	-67.57
Stage 11	32.87	-119.77	-77.71
Stage 11	32.67	-92.52	136.28
Stage 11	32.47	-68.01	122.54
Stage 11	32.27	-46.26	108.74
Stage 11	32.07	-27.27	94.97
Stage 11	31.87	-11.11	80.79
Stage 11	31.67	2.09	65.99
Stage 11	31.47	12.2	50.53
Stage 11	31.27	19.07	34.37
Stage 11	31.07	22.57	17.47
Stage 11	30.87	22.53	-0.21
Stage 11	30.67	18.78	-18.71
Stage 11	30.47	11.17	-38.07
Stage 11	30.37	5.85	-53.26
Stage 11	30.17	42.55	183.53
Stage 11	29.97	74.92	161.85
Stage 11	29.77	102.76	139.2
Stage 11	29.57	125.92	115.77
Stage 11	29.37	144.26	91.73
Stage 11	29.17	157.67	67.07
Stage 11	28.97	166.04	41.81
Stage 11	28.77	169.24	15.99
Stage 11	28.57	167.16	-10.36
Stage 11	28.37	159.73	-37.19
Stage 11	28.17	146.84	-64.45
Stage 11	27.97	128.42	-92.06
Stage 11	27.87	117.13	-112.98
Stage 11	27.67	137.6	102.37
Stage 11	27.47	152.45	74.25

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 11	27.27	161.67	46.09
Stage 11	27.07	165.29	18.09
Stage 11	26.87	163.37	-9.61
Stage 11	26.67	156.22	-35.75
Stage 11	26.47	144.62	-57.98
Stage 11	26.27	129.37	-76.27
Stage 11	26.07	111.25	-90.6
Stage 11	25.87	91.06	-100.96
Stage 11	25.67	69.58	-107.39
Stage 11	25.47	47.6	-109.91
Stage 11	25.37	36.71	-108.9
Stage 11	25.17	15.42	-106.46
Stage 11	24.97	-4.47	-99.42
Stage 11	24.77	-22.2	-88.67
Stage 11	24.57	-37.59	-76.94
Stage 11	24.37	-50.77	-65.93
Stage 11	24.17	-61.87	-55.51
Stage 11	23.97	-71.01	-45.68
Stage 11	23.77	-78.31	-36.48
Stage 11	23.57	-83.88	-27.89
Stage 11	23.37	-87.88	-19.96
Stage 11	23.17	-90.44	-12.81
Stage 11	22.97	-91.72	-6.4
Stage 11	22.77	-91.85	-0.66
Stage 11	22.57	-90.96	4.44
Stage 11	22.37	-89.17	8.94
Stage 11	22.17	-86.59	12.89
Stage 11	21.97	-83.32	16.35
Stage 11	21.77	-79.45	19.37
Stage 11	21.57	-75.05	22
Stage 11	21.37	-70.19	24.31
Stage 11	21.17	-64.97	26.09
Stage 11	20.97	-59.54	27.16
Stage 11	20.77	-54.02	27.61
Stage 11	20.57	-48.53	27.46
Stage 11	20.37	-43.16	26.81
Stage 11	20.17	-38.01	25.76
Stage 11	19.97	-33.13	24.4
Stage 11	19.77	-28.57	22.81
Stage 11	19.57	-24.36	21.05
Stage 11	19.37	-20.52	19.19
Stage 11	19.17	-17.06	17.3
Stage 11	18.97	-13.98	15.41
Stage 11	18.77	-11.27	13.55
Stage 11	18.57	-8.92	11.77
Stage 11	18.37	-6.91	10.07
Stage 11	18.17	-5.21	8.47
Stage 11	17.97	-3.81	6.99
Stage 11	17.77	-2.69	5.63
Stage 11	17.57	-1.81	4.41
Stage 11	17.37	-1.14	3.33
Stage 11	17.17	-0.66	2.4
Stage 11	16.97	-0.33	1.63
Stage 11	16.77	-0.14	0.99
Stage 11	16.57	-0.03	0.51
Stage 11	16.37	0	0.16
Stage 11	16.32	0	0.02

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 11	40.52	0	0
Stage 11	40.32	0	0
Stage 11	40.12	0	0
Stage 11	40.02	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 12

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 12	40.02	0	0
Stage 12	39.82	0	0
Stage 12	39.82	0	0
Stage 12	39.62	-0.19	-0.95
Stage 12	39.42	-1.39	-5.97
Stage 12	39.22	-4.4	-15.06
Stage 12	39.02	-9.7	-26.5
Stage 12	38.82	-17.47	-38.84
Stage 12	38.62	-27.87	-52
Stage 12	38.42	-41.05	-65.9
Stage 12	38.22	-57.13	-80.42
Stage 12	38.02	-76.21	-95.41
Stage 12	37.87	-92.53	-108.77
Stage 12	37.67	-78.22	71.57
Stage 12	37.47	-66.93	56.44
Stage 12	37.27	-58.58	41.73
Stage 12	37.07	-53.07	27.58
Stage 12	36.87	-50.25	14.1
Stage 12	36.67	-50.18	0.32
Stage 12	36.47	-52.97	-13.95
Stage 12	36.27	-58.7	-28.66
Stage 12	36.07	-67.46	-43.79
Stage 12	35.87	-79.31	-59.25
Stage 12	35.67	-94.3	-74.95
Stage 12	35.47	-112.45	-90.77
Stage 12	35.37	-122.71	-102.6
Stage 12	35.17	-106.44	81.36
Stage 12	34.97	-93.19	66.26
Stage 12	34.77	-82.86	51.65
Stage 12	34.57	-75.58	36.42
Stage 12	34.37	-71.44	20.69
Stage 12	34.17	-70.47	4.85
Stage 12	33.97	-72.64	-10.87
Stage 12	33.77	-77.9	-26.31
Stage 12	33.57	-86.17	-41.31
Stage 12	33.37	-97.35	-55.9
Stage 12	33.17	-111.53	-70.93
Stage 12	32.97	-128.8	-86.32
Stage 12	32.87	-138.6	-98.1
Stage 12	32.67	-117.02	107.92
Stage 12	32.47	-98.64	91.92
Stage 12	32.27	-83.47	75.84
Stage 12	32.07	-71.51	59.81
Stage 12	31.87	-62.82	43.45
Stage 12	31.67	-57.5	26.6
Stage 12	31.47	-55.64	9.29
Stage 12	31.27	-57.32	-8.42
Stage 12	31.07	-62.62	-26.5
Stage 12	30.87	-71.6	-44.86
Stage 12	30.67	-84.29	-63.45
Stage 12	30.47	-100.72	-82.17
Stage 12	30.37	-110.34	-96.23
Stage 12	30.17	-80.73	148.04
Stage 12	29.97	-54.84	129.47
Stage 12	29.77	-32.6	111.2
Stage 12	29.57	-13.88	93.6
Stage 12	29.37	1.33	76.04
Stage 12	29.17	12.96	58.15
Stage 12	28.97	20.94	39.92
Stage 12	28.77	25.21	21.36
Stage 12	28.57	25.7	2.46
Stage 12	28.37	22.35	-16.78
Stage 12	28.17	15.08	-36.35
Stage 12	27.97	3.83	-56.26
Stage 12	27.87	-3.32	-71.44
Stage 12	27.67	49.7	265.08
Stage 12	27.47	98.56	244.33

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 12	27.27	143.21	223.24
Stage 12	27.07	183.58	201.82
Stage 12	26.87	219.59	180.07
Stage 12	26.67	251.18	157.98
Stage 12	26.47	278.29	135.55
Stage 12	26.27	300.85	112.78
Stage 12	26.07	318.79	89.68
Stage 12	25.87	332.04	66.25
Stage 12	25.67	340.53	42.48
Stage 12	25.47	344.21	18.37
Stage 12	25.37	344.21	0.03
Stage 12	25.17	340.52	-18.42
Stage 12	24.97	331.85	-43.37
Stage 12	24.77	318.12	-68.66
Stage 12	24.57	299.6	-92.6
Stage 12	24.37	276.89	-113.54
Stage 12	24.17	250.59	-131.48
Stage 12	23.97	221.31	-146.4
Stage 12	23.77	189.65	-158.32
Stage 12	23.57	156.2	-167.22
Stage 12	23.37	121.58	-173.12
Stage 12	23.17	86.37	-176.02
Stage 12	22.97	51.19	-175.9
Stage 12	22.77	16.64	-172.78
Stage 12	22.57	-16.69	-166.64
Stage 12	22.37	-48.19	-157.5
Stage 12	22.17	-77.26	-145.36
Stage 12	21.97	-103.3	-130.2
Stage 12	21.77	-125.71	-112.04
Stage 12	21.57	-143.88	-90.86
Stage 12	21.37	-157.65	-68.86
Stage 12	21.17	-167.47	-49.08
Stage 12	20.97	-173.75	-31.41
Stage 12	20.77	-176.89	-15.72
Stage 12	20.57	-177.27	-1.88
Stage 12	20.37	-175.22	10.24
Stage 12	20.17	-171.07	20.78
Stage 12	19.97	-165.09	29.86
Stage 12	19.77	-157.57	37.63
Stage 12	19.57	-148.72	44.21
Stage 12	19.37	-138.78	49.72
Stage 12	19.17	-127.92	54.29
Stage 12	18.97	-116.32	58.01
Stage 12	18.77	-104.12	60.99
Stage 12	18.57	-91.56	62.82
Stage 12	18.37	-78.93	63.15
Stage 12	18.17	-66.53	61.99
Stage 12	17.97	-54.62	59.54
Stage 12	17.77	-43.44	55.92
Stage 12	17.57	-33.18	51.28
Stage 12	17.37	-24.04	45.7
Stage 12	17.17	-16.17	39.37
Stage 12	16.97	-9.7	32.34
Stage 12	16.77	-4.77	24.64
Stage 12	16.57	-1.52	16.28
Stage 12	16.37	-0.06	7.27
Stage 12	16.32	0	1.23

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 12	40.52	0	0
Stage 12	40.32	0	0
Stage 12	40.12	0	0
Stage 12	40.02	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 13

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 13	40.02	0	0
Stage 13	39.82	0	0
Stage 13	39.82	0	0
Stage 13	39.62	-0.2	-0.99
Stage 13	39.42	-1.41	-6.04
Stage 13	39.22	-4.44	-15.16
Stage 13	39.02	-9.77	-26.64
Stage 13	38.82	-17.57	-39.01
Stage 13	38.62	-28.01	-52.2
Stage 13	38.42	-41.24	-66.13
Stage 13	38.22	-57.37	-80.68
Stage 13	38.02	-76.51	-95.69
Stage 13	37.87	-92.87	-109.07
Stage 13	37.67	-78.63	71.19
Stage 13	37.47	-67.42	56.05
Stage 13	37.27	-59.16	41.32
Stage 13	37.07	-53.73	27.16
Stage 13	36.87	-51	13.67
Stage 13	36.67	-51.02	-0.11
Stage 13	36.47	-53.89	-14.36
Stage 13	36.27	-59.7	-29.07
Stage 13	36.07	-68.54	-44.17
Stage 13	35.87	-80.46	-59.59
Stage 13	35.67	-95.5	-75.25
Stage 13	35.47	-113.71	-91.01
Stage 13	35.37	-123.98	-102.78
Stage 13	35.17	-107.69	81.46
Stage 13	34.97	-94.4	66.47
Stage 13	34.77	-84	51.98
Stage 13	34.57	-76.62	36.9
Stage 13	34.37	-72.35	21.33
Stage 13	34.17	-71.22	5.68
Stage 13	33.97	-73.18	-9.82
Stage 13	33.77	-78.18	-25.02
Stage 13	33.57	-86.13	-39.74
Stage 13	33.37	-96.94	-54.04
Stage 13	33.17	-110.69	-68.74
Stage 13	32.97	-127.45	-83.78
Stage 13	32.87	-136.97	-95.27
Stage 13	32.67	-114.54	112.15
Stage 13	32.47	-95.23	96.56
Stage 13	32.27	-79.05	80.91
Stage 13	32.07	-65.98	65.33
Stage 13	31.87	-56.1	49.42
Stage 13	31.67	-49.49	33.03
Stage 13	31.47	-46.26	16.17
Stage 13	31.27	-46.48	-1.11
Stage 13	31.07	-50.24	-18.79
Stage 13	30.87	-57.6	-36.81
Stage 13	30.67	-68.62	-55.11
Stage 13	30.47	-83.35	-73.62
Stage 13	30.37	-92.11	-87.61
Stage 13	30.17	-60.75	156.81
Stage 13	29.97	-33.12	138.14
Stage 13	29.77	-9.2	119.59
Stage 13	29.57	11.1	101.52
Stage 13	29.37	27.76	83.27
Stage 13	29.17	40.64	64.41
Stage 13	28.97	49.62	44.92
Stage 13	28.77	54.58	24.76
Stage 13	28.57	55.35	3.89
Stage 13	28.37	51.81	-17.74
Stage 13	28.17	43.77	-40.16
Stage 13	27.97	31.09	-63.42
Stage 13	27.87	22.94	-81.51
Stage 13	27.67	70.02	235.39
Stage 13	27.47	112	209.89

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 13	27.27	148.68	183.43
Stage 13	27.07	179.88	156.01
Stage 13	26.87	205.43	127.73
Stage 13	26.67	225.2	98.85
Stage 13	26.47	239.08	69.4
Stage 13	26.27	246.96	39.41
Stage 13	26.07	248.75	8.92
Stage 13	25.87	244.34	-22.03
Stage 13	25.67	233.66	-53.39
Stage 13	25.47	216.65	-85.07
Stage 13	25.37	205.75	-109.02
Stage 13	25.17	226.41	103.32
Stage 13	24.97	240.65	71.2
Stage 13	24.77	248.46	39.06
Stage 13	24.57	249.88	7.1
Stage 13	24.37	244.98	-24.52
Stage 13	24.17	233.83	-55.74
Stage 13	23.97	217.24	-82.95
Stage 13	23.77	196.02	-106.11
Stage 13	23.57	170.98	-125.2
Stage 13	23.37	142.93	-140.24
Stage 13	23.17	112.68	-151.24
Stage 13	22.97	81.04	-158.24
Stage 13	22.77	48.78	-161.3
Stage 13	22.57	16.68	-160.47
Stage 13	22.37	-14.48	-155.82
Stage 13	22.17	-43.96	-147.37
Stage 13	21.97	-70.97	-135.08
Stage 13	21.77	-94.78	-119.05
Stage 13	21.57	-114.66	-99.37
Stage 13	21.37	-130.31	-78.28
Stage 13	21.17	-142.1	-58.94
Stage 13	20.97	-150.38	-41.42
Stage 13	20.77	-155.53	-25.72
Stage 13	20.57	-157.88	-11.74
Stage 13	20.37	-157.75	0.63
Stage 13	20.17	-155.45	11.48
Stage 13	19.97	-151.27	20.91
Stage 13	19.77	-145.46	29.06
Stage 13	19.57	-138.25	36.03
Stage 13	19.37	-129.87	41.94
Stage 13	19.17	-120.49	46.9
Stage 13	18.97	-110.29	51
Stage 13	18.77	-99.42	54.35
Stage 13	18.57	-88.01	57.03
Stage 13	18.37	-76.36	58.25
Stage 13	18.17	-64.75	58.06
Stage 13	17.97	-53.45	56.48
Stage 13	17.77	-42.72	53.64
Stage 13	17.57	-32.79	49.65
Stage 13	17.37	-23.87	44.63
Stage 13	17.17	-16.12	38.75
Stage 13	16.97	-9.71	32.05
Stage 13	16.77	-4.79	24.57
Stage 13	16.57	-1.53	16.32
Stage 13	16.37	-0.06	7.33
Stage 13	16.32	0	1.24

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 13	40.52	0	0
Stage 13	40.32	0	0
Stage 13	40.12	0	0
Stage 13	40.02	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 14

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 14	40.02	0	0
Stage 14	39.82	0	0
Stage 14	39.82	0	0
Stage 14	39.62	-0.2	-1
Stage 14	39.42	-1.41	-6.05
Stage 14	39.22	-4.45	-15.17
Stage 14	39.02	-9.77	-26.65
Stage 14	38.82	-17.58	-39.01
Stage 14	38.62	-28.02	-52.19
Stage 14	38.42	-41.24	-66.11
Stage 14	38.22	-57.37	-80.64
Stage 14	38.02	-76.49	-95.63
Stage 14	37.87	-92.84	-108.99
Stage 14	37.67	-78.57	71.37
Stage 14	37.47	-67.32	56.25
Stage 14	37.27	-59	41.56
Stage 14	37.07	-53.52	27.44
Stage 14	36.87	-50.72	13.99
Stage 14	36.67	-50.67	0.25
Stage 14	36.47	-53.46	-13.96
Stage 14	36.27	-59.18	-28.61
Stage 14	36.07	-67.92	-43.67
Stage 14	35.87	-79.73	-59.04
Stage 14	35.67	-94.66	-74.65
Stage 14	35.47	-112.73	-90.37
Stage 14	35.37	-122.94	-102.11
Stage 14	35.17	-106.48	82.28
Stage 14	34.97	-93.02	67.33
Stage 14	34.77	-82.44	52.87
Stage 14	34.57	-74.88	37.81
Stage 14	34.37	-70.43	22.26
Stage 14	34.17	-69.11	6.61
Stage 14	33.97	-70.89	-8.91
Stage 14	33.77	-75.72	-24.14
Stage 14	33.57	-83.5	-38.92
Stage 14	33.37	-94.16	-53.3
Stage 14	33.17	-107.78	-68.1
Stage 14	32.97	-124.44	-83.28
Stage 14	32.87	-133.92	-94.9
Stage 14	32.67	-111.56	111.82
Stage 14	32.47	-92.36	96
Stage 14	32.27	-76.35	80.07
Stage 14	32.07	-63.52	64.15
Stage 14	31.87	-53.94	47.86
Stage 14	31.67	-47.74	31.02
Stage 14	31.47	-45.01	13.67
Stage 14	31.27	-45.84	-4.19
Stage 14	31.07	-50.34	-22.49
Stage 14	30.87	-58.58	-41.2
Stage 14	30.67	-70.63	-60.26
Stage 14	30.47	-86.55	-79.6
Stage 14	30.37	-95.98	-94.25
Stage 14	30.17	-66.63	146.76
Stage 14	29.97	-41.2	127.12
Stage 14	29.77	-19.69	107.57
Stage 14	29.57	-2	88.46
Stage 14	29.37	11.83	69.14
Stage 14	29.17	21.67	49.22
Stage 14	28.97	27.41	28.68
Stage 14	28.77	28.91	7.52
Stage 14	28.57	26.06	-14.28
Stage 14	28.37	18.72	-36.72
Stage 14	28.17	6.76	-59.8
Stage 14	27.97	-9.95	-83.52
Stage 14	27.87	-20.12	-101.77
Stage 14	27.67	22.84	214.79
Stage 14	27.47	60.75	189.55

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 14	27.27	93.5	163.76
Stage 14	27.07	120.99	137.46
Stage 14	26.87	143.16	110.85
Stage 14	26.67	160.01	84.27
Stage 14	26.47	171.58	57.82
Stage 14	26.27	177.9	31.63
Stage 14	26.07	179.07	5.83
Stage 14	25.87	175.18	-19.45
Stage 14	25.67	166.37	-44.05
Stage 14	25.47	152.74	-68.16
Stage 14	25.37	144.09	-86.49
Stage 14	25.17	178.61	172.59
Stage 14	24.97	208.14	147.64
Stage 14	24.77	232.61	122.36
Stage 14	24.57	251.95	96.74
Stage 14	24.37	266.11	70.78
Stage 14	24.17	275.01	44.49
Stage 14	23.97	278.58	17.86
Stage 14	23.77	276.76	-9.1
Stage 14	23.57	269.48	-36.4
Stage 14	23.37	257.11	-61.87
Stage 14	23.17	240.24	-84.32
Stage 14	22.97	219.49	-103.77
Stage 14	22.77	195.45	-120.2
Stage 14	22.57	168.72	-133.64
Stage 14	22.37	139.91	-144.06
Stage 14	22.17	109.61	-151.47
Stage 14	21.97	78.44	-155.88
Stage 14	21.77	46.98	-157.28
Stage 14	21.57	15.85	-155.67
Stage 14	21.37	-14.36	-151.05
Stage 14	21.17	-43.05	-143.42
Stage 14	20.97	-69.6	-132.79
Stage 14	20.77	-93.43	-119.15
Stage 14	20.57	-113.93	-102.5
Stage 14	20.37	-130.5	-82.84
Stage 14	20.17	-142.54	-60.17
Stage 14	19.97	-150.33	-38.96
Stage 14	19.77	-154.33	-20.01
Stage 14	19.57	-154.97	-3.2
Stage 14	19.37	-152.65	11.58
Stage 14	19.17	-147.76	24.47
Stage 14	18.97	-140.64	35.58
Stage 14	18.77	-131.64	45.03
Stage 14	18.57	-121.05	52.95
Stage 14	18.37	-109.16	59.43
Stage 14	18.17	-96.25	64.58
Stage 14	17.97	-82.55	68.48
Stage 14	17.77	-68.31	71.23
Stage 14	17.57	-54.04	71.31
Stage 14	17.37	-40.4	68.2
Stage 14	17.17	-27.97	62.18
Stage 14	16.97	-17.24	53.65
Stage 14	16.77	-8.7	42.67
Stage 14	16.57	-2.84	29.32
Stage 14	16.37	-0.12	13.62
Stage 14	16.32	0	2.33

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 14	40.52	0	0
Stage 14	40.32	0	0
Stage 14	40.12	0	0
Stage 14	40.02	0	0

Risultati Elementi strutturali - A2+M2+R1

Design Assumption: A2+M2+R1 Sollecitazione Tir-A1

Stage	Forza (kN/m)
Stage 3	200
Stage 4	203.8889
Stage 5	199.9942
Stage 6	199.1893
Stage 7	199.7057
Stage 8	197.191
Stage 9	197.9202
Stage 10	196.3147
Stage 11	196.5267
Stage 12	196.7277
Stage 13	196.6728
Stage 14	196.7416

Design Assumption: A2+M2+R1 Sollecitazione Tir-B1

Stage	Forza (kN/m)
Stage 5	200
Stage 6	209.5778
Stage 7	203.3455
Stage 8	203.8956
Stage 9	204.1234
Stage 10	199.4077
Stage 11	200.5349
Stage 12	198.6848
Stage 13	198.9099
Stage 14	199.0229

Design Assumption: A2+M2+R1 Sollecitazione Tir-C1

Stage	Forza (kN/m)
Stage 7	200
Stage 8	230.5404
Stage 9	221.5659
Stage 10	227.6882
Stage 11	227.6478
Stage 12	221.2442
Stage 13	222.3733
Stage 14	221.8128

Design Assumption: A2+M2+R1 Sollecitazione Tir-D1

Stage	Forza (kN/m)
Stage 9	200
Stage 10	269.9011
Stage 11	256.2293
Stage 12	262.3003
Stage 13	262.417
Stage 14	259.6535

Design Assumption: A2+M2+R1 Sollecitazione Tir-E1

Stage	Forza (kN/m)
Stage 11	240
Stage 12	357.2543
Stage 13	340.5092
Stage 14	340.221

Design Assumption: A2+M2+R1 Sollecitazione Tir-F1

Stage	Forza (kN/m)
Stage 13	240
Stage 14	281.8198

Allegati

Design Assumption : Nominal - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal
* Time:giovedì 31 gennaio 2019 17:38:10
* 1: Defining general settings
UNIT m kN
TITLE GALLERIA IL DOSSO 1 - PARATIA IMBOCCO LATO SONDRIO
DELTA 0.2
option param itemax 40
option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_32 0 16.32 40.52 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_32 16.32 40.52 1 0
SOIL 0_R LeftWall_32 16.32 40.52 2 180

* 4: Defining soil layers
*
* Soil Profile (Morena_2_8_L_0)
*
LDATA Morena_2_8_L_0 52 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 34 0 0 0
YOUNG 21000 33600
ENDL

* 5: Defining structural materials
* Rebar material: 124 Name=acciaio armonico E=195000000 kPa
MATERIAL acciaioarmonico_124 1.95E+08
* Concrete material: 106 Name=C32/40 E=33345800 kPa
MATERIAL C3240_106 3.3346E+07
* Steel material: 114 Name=S355 E=210000000 kPa
MATERIAL S355_114 2.1E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.1476E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
BEAM Berlinese_67970 LeftWall_32 16.32 40.02 S355_114 0.10532 00 11 0
BEAM Cordolo_657213 LeftWall_32 40.02 40.52 C2530_104 0.5 11 00 0

* 6.2: Supports
WIRE Tir-A1_425 LeftWall_32 37.87 acciaioarmonico_124 9.2539E-06 200 10 0 0
WIRE Tir-B1_535 LeftWall_32 35.37 acciaioarmonico_124 9.639E-06 200 10 0 0
WIRE Tir-C1_635 LeftWall_32 32.87 acciaioarmonico_124 1.0514E-05 200 10 0 0
WIRE Tir-D1_492899 LeftWall_32 30.37 acciaioarmonico_124 1.1014E-05 200 10 0 0
WIRE Tir-E1_596311 LeftWall_32 27.87 acciaioarmonico_124 1.4616E-05 240 10 0 0
WIRE Tir-F1_596312 LeftWall_32 25.37 acciaioarmonico_124 1.5427E-05 240 10 0 0
* 6.3: Strips

* 7: Defining Steps
STEP Stage1_31
CHANGE Morena_2_8_L_0 U-FRICT=34 LeftWall_32
CHANGE Morena_2_8_L_0 D-FRICT=34 LeftWall_32
CHANGE Morena_2_8_L_0 U-KA=0.308 LeftWall_32
CHANGE Morena_2_8_L_0 U-KP=6.072 LeftWall_32
CHANGE Morena_2_8_L_0 D-KA=0.234 LeftWall_32
CHANGE Morena_2_8_L_0 D-KP=4.134 LeftWall_32
CHANGE Morena_2_8_L_0 U-COHE=0 LeftWall_32
CHANGE Morena_2_8_L_0 U-ADHES=0 LeftWall_32
CHANGE Morena_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Morena_2_8_L_0 D-ADHES=0 LeftWall_32
SETWALL LeftWall_32
GEOM 40.02 40.02
SURCHARGE 0 0 0 0
WATER 0 0 16.32 0 0
ADD Berlinese_67970 Cordolo_657213
ENDSTEP

STEP Stage2_596315
CHANGE Morena_2_8_L_0 D-KP=5.583 LeftWall_32
SETWALL LeftWall_32
GEOM 40.02 37.37
SURCHARGE 0 0 0 0
WATER 0 0 16.32 0 0
ENDSTEP

STEP Stage3_596504
SETWALL LeftWall_32
GEOM 40.02 37.37
```

SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-A1_425
 ENDSTEP

STEP Stage4_596693
 CHANGE Morena_2_8_L_0 D-KP=6.072 LeftWall_32
 SETWALL LeftWall_32
 GEOM 40.02 34.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage5_597956
 SETWALL LeftWall_32
 GEOM 40.02 34.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-B1_535
 ENDSTEP

STEP Stage6_598145
 SETWALL LeftWall_32
 GEOM 40.02 32.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage7_598334
 SETWALL LeftWall_32
 GEOM 40.02 32.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-C1_635
 ENDSTEP

STEP Stage8_598523
 SETWALL LeftWall_32
 GEOM 40.02 29.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage9_598712
 SETWALL LeftWall_32
 GEOM 40.02 29.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-D1_492899
 ENDSTEP

STEP Stage10_599259
 SETWALL LeftWall_32
 GEOM 40.02 27.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage11_599806
 SETWALL LeftWall_32
 GEOM 40.02 27.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-E1_596311
 ENDSTEP

STEP Stage12_745859
 SETWALL LeftWall_32
 GEOM 40.02 24.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage13_599995
 SETWALL LeftWall_32
 GEOM 40.02 24.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-F1_596312
 ENDSTEP

STEP Stage14_600184
 SETWALL LeftWall_32
 GEOM 40.02 23.7
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

Design Assumption : SLE (Rara) - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: SLE (Rara)
* Time:giovedì 31 gennaio 2019 17:38:15
* 1: Defining general settings
UNIT m kN
TITLE GALLERIA IL DOSSO 1 - PARATIA IMBOCCO LATO SONDRIO
DELTA 0.2
option param itemax 40
option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_32 0 16.32 40.52 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_32 16.32 40.52 1 0
SOIL 0_R LeftWall_32 16.32 40.52 2 180

* 4: Defining soil layers
*
* Soil Profile (Morena_2_8_L_0)
*
LDATA Morena_2_8_L_0 52 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 34 0 0 0
YOUNG 21000 33600
ENDDL

* 5: Defining structural materials
* Rebar material: 124 Name=acciaio armonico E=195000000 kPa
MATERIAL acciaioarmonico_124 1.95E+08
* Concrete material: 106 Name=C32/40 E=33345800 kPa
MATERIAL C3240_106 3.3346E+07
* Steel material: 114 Name=S355 E=210000000 kPa
MATERIAL S355_114 2.1E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.1476E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
BEAM Berlinese_67970 LeftWall_32 16.32 40.02 S355_114 0.10532 00 11 0
BEAM Cordolo_657213 LeftWall_32 40.02 40.52 C2530_104 0.5 11 00 0

* 6.2: Supports
WIRE Tir-A1_425 LeftWall_32 37.87 acciaioarmonico_124 9.2539E-06 200 10 0 0
WIRE Tir-B1_535 LeftWall_32 35.37 acciaioarmonico_124 9.639E-06 200 10 0 0
WIRE Tir-C1_635 LeftWall_32 32.87 acciaioarmonico_124 1.0514E-05 200 10 0 0
WIRE Tir-D1_492899 LeftWall_32 30.37 acciaioarmonico_124 1.1014E-05 200 10 0 0
WIRE Tir-E1_596311 LeftWall_32 27.87 acciaioarmonico_124 1.4616E-05 240 10 0 0
WIRE Tir-F1_596312 LeftWall_32 25.37 acciaioarmonico_124 1.5427E-05 240 10 0 0
* 6.3: Strips

* 7: Defining Steps
STEP Stage1_31
CHANGE Morena_2_8_L_0 U-FRICT=34 LeftWall_32
CHANGE Morena_2_8_L_0 D-FRICT=34 LeftWall_32
CHANGE Morena_2_8_L_0 U-KA=0.308 LeftWall_32
CHANGE Morena_2_8_L_0 U-KP=6.072 LeftWall_32
CHANGE Morena_2_8_L_0 D-KA=0.234 LeftWall_32
CHANGE Morena_2_8_L_0 D-KP=4.134 LeftWall_32
CHANGE Morena_2_8_L_0 U-COHE=0 LeftWall_32
CHANGE Morena_2_8_L_0 U-ADHES=0 LeftWall_32
CHANGE Morena_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Morena_2_8_L_0 D-ADHES=0 LeftWall_32
SETWALL LeftWall_32
GEOM 40.02 40.02
SURCHARGE 0 0 0 0
WATER 0 0 16.32 0 0
ADD Berlinese_67970 Cordolo_657213
ENDSTEP

STEP Stage2_596315
CHANGE Morena_2_8_L_0 D-KP=5.583 LeftWall_32
SETWALL LeftWall_32
GEOM 40.02 37.37
SURCHARGE 0 0 0 0
WATER 0 0 16.32 0 0
ENDSTEP

STEP Stage3_596504
SETWALL LeftWall_32
GEOM 40.02 37.37
SURCHARGE 0 0 0 0
WATER 0 0 16.32 0 0
ADD Tir-A1_425
ENDSTEP
```

STEP Stage4_596693
 CHANGE Morena_2_8_L_0 D-KP=6.072 LeftWall_32
 SETWALL LeftWall_32
 GEOM 40.02 34.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage5_597956
 SETWALL LeftWall_32
 GEOM 40.02 34.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-B1_535
 ENDSTEP

STEP Stage6_598145
 SETWALL LeftWall_32
 GEOM 40.02 32.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage7_598334
 SETWALL LeftWall_32
 GEOM 40.02 32.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-C1_635
 ENDSTEP

STEP Stage8_598523
 SETWALL LeftWall_32
 GEOM 40.02 29.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage9_598712
 SETWALL LeftWall_32
 GEOM 40.02 29.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-D1_492899
 ENDSTEP

STEP Stage10_599259
 SETWALL LeftWall_32
 GEOM 40.02 27.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage11_599806
 SETWALL LeftWall_32
 GEOM 40.02 27.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-E1_596311
 ENDSTEP

STEP Stage12_745859
 SETWALL LeftWall_32
 GEOM 40.02 24.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage13_599995
 SETWALL LeftWall_32
 GEOM 40.02 24.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-F1_596312
 ENDSTEP

STEP Stage14_600184
 SETWALL LeftWall_32
 GEOM 40.02 23.7
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

Design Assumption : A1+M1+R1 - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: A1+M1+R1
* Time:giovedì 31 gennaio 2019 17:38:19
* 1: Defining general settings
UNIT m kN
TITLE GALLERIA IL DOSSO 1 - PARATIA IMBOCCO LATO SONDRIO
DELTA 0.2
option param itemax 40
option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_32 0 16.32 40.52 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_32 16.32 40.52 1 0
SOIL 0_R LeftWall_32 16.32 40.52 2 180

* 4: Defining soil layers
*
* Soil Profile (Morena_2_8_L_0)
*
LDATA Morena_2_8_L_0 52 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 34 0 0 0
YOUNG 21000 33600
ENDDL

* 5: Defining structural materials
* Rebar material: 124 Name=acciaio armonico E=195000000 kPa
MATERIAL acciaioarmonico_124 1.95E+08
* Concrete material: 106 Name=C32/40 E=33345800 kPa
MATERIAL C3240_106 3.3346E+07
* Steel material: 114 Name=S355 E=210000000 kPa
MATERIAL S355_114 2.1E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.1476E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
BEAM Berlinese_67970 LeftWall_32 16.32 40.02 S355_114 0.10532 00 11 0
BEAM Cordolo_657213 LeftWall_32 40.02 40.52 C2530_104 0.5 11 00 0

* 6.2: Supports
WIRE Tir-A1_425 LeftWall_32 37.87 acciaioarmonico_124 9.2539E-06 200 10 0 0
WIRE Tir-B1_535 LeftWall_32 35.37 acciaioarmonico_124 9.639E-06 200 10 0 0
WIRE Tir-C1_635 LeftWall_32 32.87 acciaioarmonico_124 1.0514E-05 200 10 0 0
WIRE Tir-D1_492899 LeftWall_32 30.37 acciaioarmonico_124 1.1014E-05 200 10 0 0
WIRE Tir-E1_596311 LeftWall_32 27.87 acciaioarmonico_124 1.4616E-05 240 10 0 0
WIRE Tir-F1_596312 LeftWall_32 25.37 acciaioarmonico_124 1.5427E-05 240 10 0 0
* 6.3: Strips

* 7: Defining Steps
STEP Stage1_31
CHANGE Morena_2_8_L_0 U-FRICT=34 LeftWall_32
CHANGE Morena_2_8_L_0 D-FRICT=34 LeftWall_32
CHANGE Morena_2_8_L_0 U-KA=0.308 LeftWall_32
CHANGE Morena_2_8_L_0 U-KP=6.072 LeftWall_32
CHANGE Morena_2_8_L_0 D-KA=0.234 LeftWall_32
CHANGE Morena_2_8_L_0 D-KP=4.134 LeftWall_32
CHANGE Morena_2_8_L_0 U-COHE=0 LeftWall_32
CHANGE Morena_2_8_L_0 U-ADHES=0 LeftWall_32
CHANGE Morena_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Morena_2_8_L_0 D-ADHES=0 LeftWall_32
SETWALL LeftWall_32
GEOM 40.02 40.02
SURCHARGE 0 0 0 0
WATER 0 0 16.32 0 0
ADD Berlinese_67970 Cordolo_657213
ENDSTEP

STEP Stage2_596315
CHANGE Morena_2_8_L_0 D-KP=5.583 LeftWall_32
SETWALL LeftWall_32
GEOM 40.02 37.37
SURCHARGE 0 0 0 0
WATER 0 0 16.32 0 0
ENDSTEP

STEP Stage3_596504
SETWALL LeftWall_32
GEOM 40.02 37.37
SURCHARGE 0 0 0 0
WATER 0 0 16.32 0 0
ADD Tir-A1_425
ENDSTEP
```


STEP Stage4_596693
 CHANGE Morena_2_8_L_0 D-KP=6.072 LeftWall_32
 SETWALL LeftWall_32
 GEOM 40.02 34.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage5_597956
 SETWALL LeftWall_32
 GEOM 40.02 34.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-B1_535
 ENDSTEP

STEP Stage6_598145
 SETWALL LeftWall_32
 GEOM 40.02 32.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage7_598334
 SETWALL LeftWall_32
 GEOM 40.02 32.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-C1_635
 ENDSTEP

STEP Stage8_598523
 SETWALL LeftWall_32
 GEOM 40.02 29.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage9_598712
 SETWALL LeftWall_32
 GEOM 40.02 29.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-D1_492899
 ENDSTEP

STEP Stage10_599259
 SETWALL LeftWall_32
 GEOM 40.02 27.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage11_599806
 SETWALL LeftWall_32
 GEOM 40.02 27.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-E1_596311
 ENDSTEP

STEP Stage12_745859
 SETWALL LeftWall_32
 GEOM 40.02 24.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage13_599995
 SETWALL LeftWall_32
 GEOM 40.02 24.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-F1_596312
 ENDSTEP

STEP Stage14_600184
 SETWALL LeftWall_32
 GEOM 40.02 23.7
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

Design Assumption : A2+M2+R1 - File di Paratie - File di input (.d)

```

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: A2+M2+R1
* Time:giovedì 31 gennaio 2019 17:38:24
* 1: Defining general settings
UNIT m kN
TITLE GALLERIA IL DOSSO 1 - PARATIA IMBOCCO LATO SONDRIO
DELTA 0.2
option param itemax 40
option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_32 0 16.32 40.52 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_32 16.32 40.52 1 0
SOIL 0_R LeftWall_32 16.32 40.52 2 180

* 4: Defining soil layers
*
* Soil Profile (Morena_2_8_L_0)
*
LDATA Morena_2_8_L_0 52 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 34 0 0 0
YOUNG 21000 33600
ENDDL

* 5: Defining structural materials
* Rebar material: 124 Name=acciaio armonico E=195000000 kPa
MATERIAL acciaioarmonico_124 1.95E+08
* Concrete material: 106 Name=C32/40 E=33345800 kPa
MATERIAL C3240_106 3.3346E+07
* Steel material: 114 Name=S355 E=210000000 kPa
MATERIAL S355_114 2.1E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.1476E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
BEAM Berlinese_67970 LeftWall_32 16.32 40.02 S355_114 0.10532 00 11 0
BEAM Cordolo_657213 LeftWall_32 40.02 40.52 C2530_104 0.5 11 00 0

* 6.2: Supports
WIRE Tir-A1_425 LeftWall_32 37.87 acciaioarmonico_124 9.2539E-06 200 10 0 0
WIRE Tir-B1_535 LeftWall_32 35.37 acciaioarmonico_124 9.639E-06 200 10 0 0
WIRE Tir-C1_635 LeftWall_32 32.87 acciaioarmonico_124 1.0514E-05 200 10 0 0
WIRE Tir-D1_492899 LeftWall_32 30.37 acciaioarmonico_124 1.1014E-05 200 10 0 0
WIRE Tir-E1_596311 LeftWall_32 27.87 acciaioarmonico_124 1.4616E-05 240 10 0 0
WIRE Tir-F1_596312 LeftWall_32 25.37 acciaioarmonico_124 1.5427E-05 240 10 0 0

* 6.3: Strips

* 7: Defining Steps
STEP Stage1_31
CHANGE Morena_2_8_L_0 U-FRICT=28.352 LeftWall_32
CHANGE Morena_2_8_L_0 D-FRICT=28.352 LeftWall_32
CHANGE Morena_2_8_L_0 U-KA=0.42 LeftWall_32
CHANGE Morena_2_8_L_0 U-KP=4.18 LeftWall_32
CHANGE Morena_2_8_L_0 D-KA=0.3 LeftWall_32
CHANGE Morena_2_8_L_0 D-KP=2.931 LeftWall_32
CHANGE Morena_2_8_L_0 U-COHE=0 LeftWall_32
CHANGE Morena_2_8_L_0 U-ADHES=0 LeftWall_32
CHANGE Morena_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Morena_2_8_L_0 D-ADHES=0 LeftWall_32
SETWALL LeftWall_32
GEOM 40.02 40.02
SURCHARGE 0 0 0 0
WATER 0 0 16.32 0 0
ADD Berlinese_67970 Cordolo_657213
ENDSTEP

STEP Stage2_596315
CHANGE Morena_2_8_L_0 D-KP=3.876 LeftWall_32
SETWALL LeftWall_32
GEOM 40.02 37.37
SURCHARGE 0 0 0 0
WATER 0 0 16.32 0 0
ENDSTEP

STEP Stage3_596504
SETWALL LeftWall_32
GEOM 40.02 37.37
SURCHARGE 0 0 0 0
WATER 0 0 16.32 0 0
ADD Tir-A1_425
ENDSTEP

```

STEP Stage4_596693
 CHANGE Morena_2_8_L_0 D-KP=4.18 LeftWall_32
 SETWALL LeftWall_32
 GEOM 40.02 34.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage5_597956
 SETWALL LeftWall_32
 GEOM 40.02 34.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-B1_535
 ENDSTEP

STEP Stage6_598145
 SETWALL LeftWall_32
 GEOM 40.02 32.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage7_598334
 SETWALL LeftWall_32
 GEOM 40.02 32.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-C1_635
 ENDSTEP

STEP Stage8_598523
 SETWALL LeftWall_32
 GEOM 40.02 29.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage9_598712
 SETWALL LeftWall_32
 GEOM 40.02 29.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-D1_492899
 ENDSTEP

STEP Stage10_599259
 SETWALL LeftWall_32
 GEOM 40.02 27.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage11_599806
 SETWALL LeftWall_32
 GEOM 40.02 27.37
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-E1_596311
 ENDSTEP

STEP Stage12_745859
 SETWALL LeftWall_32
 GEOM 40.02 24.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

STEP Stage13_599995
 SETWALL LeftWall_32
 GEOM 40.02 24.87
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ADD Tir-F1_596312
 ENDSTEP

STEP Stage14_600184
 SETWALL LeftWall_32
 GEOM 40.02 23.7
 SURCHARGE 0 0 0 0
 WATER 0 0 16.32 0 0
 ENDSTEP

10.2 PARATIA IN ADIACENZA GALLERIA IDRAULICA

PARATIE *plus*TM

Report di Calcolo

Nome Progetto: GALLERIA IL DOSSO 1 - PARATIA IMBOCCO LATO SONDRIO

Autore: Ing. Renato Vaira

Jobname: D:\Documenti_Lavori\A832 - Tirano\Paratia Imbocco Sondrio\Traversa 4 tiranti.pplus

Data: 31/01/2019 17:30:41

Design Section: Base Design Section

Descrizione della Stratigrafia e degli Strati di Terreno

Tipo : POLYLINE

Punti

(-40;40)

(20;40)

(25;-30)

(-40;-30)

OCR : 1

Tipo : LENS

Punti

(20;13.5)

(0;13.5)

(0;19.35)

(20;19.35)

OCR : 1

Tipo : POLYLINE

Punti

(-40;13.5)

(20;13.5)

(20;5)

(-40;5)

OCR : 1

Strato di Terreno	Terreno	γ dry	γ sat	ϕ'	ϕ_{cv}	ϕ_p	c'	Su	Modulo	Elastico	Eu	Evc	Eur	Ah	Av	exp Pa	Rur/Rvc	Rvc	Ku	Kvc	Kur	
		kN/m ³	kN/m ³	°	°	°	kPa	kPa				kPa	kPa			kPa		kPa	kN/m ³	kN/m ³	kN/m ³	
1	Morena	20	21	34			0		Constant			21000	33600									
2	Morena_galleria	20	21	19.5			0		Constant			10500	16800									
3	Morena	20	21	34			0		Constant			21000	33600									

Descrizione Pareti

X : 0 m

Quota in alto : 29.5 m

Quota di fondo : 9.8 m

Muro di sinistra

Sezione : Berlinese

Area equivalente : 0.0272491018831865 m

Inerzia equivalente : 0.0001 m⁴/m

Materiale calcestruzzo : C32/40

Tipo sezione : Tangent

Spaziatura : 0.4 m

Diametro : 0.24 m

Efficacia : 0.9

Materiale acciaio : S355

Sezione : CHS177.8*10

Tipo sezione : O

Spaziatura : 0.4 m

Spessore : 0.01 m

Diametro : 0.1778 m

X : 0 m

Quota in alto : 30 m

Quota di fondo : 29.5 m

Muro di sinistra

Sezione : Berlinese

Area equivalente : 0.0272491018831865 m

Inerzia equivalente : 0.0001 m⁴/m

Materiale calcestruzzo : C32/40

Tipo sezione : Tangent

Spaziatura : 0.4 m

Diametro : 0.24 m

Efficacia : 0.9

Materiale acciaio : S355

Sezione : CHS177.8*10

Tipo sezione : O

Spaziatura : 0.4 m

Spessore : 0.01 m

Diametro : 0.1778 m

Sezione : Strut Section 2

Area equivalente : 0.5 m

Inerzia equivalente : 0.0104 m⁴/m

Materiale calcestruzzo : C25/30

Tipo sezione : Solid

Spessore : 0.5 m

Efficacia : 1

Fasi di Calcolo

Stage 1

Scavo

Muro di sinistra

Lato monte : 29.5 m

Lato valle : 29.5 m

Linea di scavo di sinistra (Irregolare)

(-40;39)

(-6.6;31.6)

(-3.5;29.5)

(0;29.5)

Linea di scavo di destra (Irregolare)

(0;29.5)

(3.5;29.5)

(20;25.8)

Elementi strutturali

Paratia : Berlinese

X : 0 m

Quota in alto : 29.5 m

Quota di fondo : 9.8 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 30 m

Quota di fondo : 29.5 m

Sezione : Strut Section 2

Stage 2

Scavo

Muro di sinistra

Lato monte : 29.5 m

Lato valle : 27 m

Linea di scavo di sinistra (Irregolare)

(-40;39)

(-6.6;31.6)

(-3.5;29.5)

(0;29.5)

Linea di scavo di destra (Irregolare)

(0;27)

(15;27)

(20;25.8)

Elementi strutturali

Paratia : Berlinese

X : 0 m

Quota in alto : 29.5 m

Quota di fondo : 9.8 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 30 m

Quota di fondo : 29.5 m

Sezione : Strut Section 2

Stage 3

Scavo

Muro di sinistra

Lato monte : 29.5 m

Lato valle : 27 m

Linea di scavo di sinistra (Irregolare)

(-40;39)

(-6.6;31.6)

(-3.5;29.5)

(0;29.5)

Linea di scavo di destra (Irregolare)

(0;27)

(15;27)

(20;25.8)

Elementi strutturali

Tirante : Tir-A2

X : 0 m

Z : 27.5 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 15 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 29.5 m

Quota di fondo : 9.8 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 30 m

Quota di fondo : 29.5 m

Sezione : Strut Section 2

Stage 4

Scavo

Muro di sinistra

Lato monte : 29.5 m

Lato valle : 24.5 m

Linea di scavo di sinistra (Irregolare)

(-40;39)

(-6.6;31.6)

(-3.5;29.5)

(0;29.5)

Linea di scavo di destra (Orizzontale)

24.5 m

Elementi strutturali

Tirante : Tir-A2

X : 0 m

Z : 27.5 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 15 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 29.5 m

Quota di fondo : 9.8 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 30 m

Quota di fondo : 29.5 m

Sezione : Strut Section 2

Stage 5

Scavo

Muro di sinistra

Lato monte : 29.5 m

Lato valle : 24.5 m

Linea di scavo di sinistra (Irregolare)

(-40;39)

(-6.6;31.6)

(-3.5;29.5)

(0;29.5)

Linea di scavo di destra (Orizzontale)

24.5 m

Elementi strutturali

Tirante : Tir-A2

X : 0 m

Z : 27.5 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 15 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B2

X : 0 m

Z : 25 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 13 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 29.5 m

Quota di fondo : 9.8 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 30 m

Quota di fondo : 29.5 m

Sezione : Strut Section 2

Stage 6

Scavo

Muro di sinistra

Lato monte : 29.5 m

Lato valle : 22 m

Linea di scavo di sinistra (Irregolare)

(-40;39)

(-6.6;31.6)

(-3.5;29.5)

(0;29.5)

Linea di scavo di destra (Orizzontale)

22 m

Elementi strutturali

Tirante : Tir-A2

X : 0 m

Z : 27.5 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 15 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B2

X : 0 m

Z : 25 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 13 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 29.5 m

Quota di fondo : 9.8 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 30 m

Quota di fondo : 29.5 m

Sezione : Strut Section 2

Stage 7

Scavo

Muro di sinistra

Lato monte : 29.5 m

Lato valle : 22 m

Linea di scavo di sinistra (Irregolare)

(-40;39)

(-6.6;31.6)

(-3.5;29.5)

(0;29.5)

Linea di scavo di destra (Orizzontale)

22 m

Elementi strutturali

Tirante : Tir-A2

X : 0 m

Z : 27.5 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 15 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B2

X : 0 m

Z : 25 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 13 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-C2

X : 0 m

Z : 22.5 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 12 m

Spaziatura orizzontale : 2.4 m

Prezarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 29.5 m

Quota di fondo : 9.8 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 30 m

Quota di fondo : 29.5 m

Sezione : Strut Section 2

Stage 8

Scavo

Muro di sinistra

Lato monte : 29.5 m

Lato valle : 20 m

Linea di scavo di sinistra (Irregolare)

(-40;39)

(-6.6;31.6)

(-3.5;29.5)

(0;29.5)

Linea di scavo di destra (Orizzontale)

20 m

Elementi strutturali

Tirante : Tir-A2

X : 0 m

Z : 27.5 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 15 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B2

X : 0 m

Z : 25 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 13 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-C2

X : 0 m

Z : 22.5 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 12 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 29.5 m

Quota di fondo : 9.8 m

Sezione : Berlinese

Paratia : Cordolo

X : 0 m

Quota in alto : 30 m

Quota di fondo : 29.5 m

Sezione : Strut Section 2

Stage 9

Scavo

Muro di sinistra

Lato monte : 29.5 m

Lato valle : 20 m

Linea di scavo di sinistra (Irregolare)

(-40;39)

(-6.6;31.6)

(-3.5;29.5)

(0;29.5)

Linea di scavo di destra (Orizzontale)

20 m

Elementi strutturali

Tirante : Tir-A2

X : 0 m

Z : 27.5 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 15 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B2

X : 0 m

Z : 25 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 13 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-C2

X : 0 m

Z : 22.5 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 12 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 29.5 m

Quota di fondo : 9.8 m

Sezione : Berlinese

Tirante : Tir-D2

X : 0 m

Z : 20.5 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 10 m

Spaziatura orizzontale : 2 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Cordolo

X : 0 m

Quota in alto : 30 m

Quota di fondo : 29.5 m

Sezione : Strut Section 2

Stage 10

Scavo

Muro di sinistra

Lato monte : 29.5 m

Lato valle : 19.35 m

Linea di scavo di sinistra (Irregolare)

(-40;39)

(-6.6;31.6)

(-3.5;29.5)

(0;29.5)

Linea di scavo di destra (Orizzontale)

19.35 m

Elementi strutturali

Tirante : Tir-A2

X : 0 m

Z : 27.5 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 15 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-B2

X : 0 m

Z : 25 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 13 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Tirante : Tir-C2

X : 0 m

Z : 22.5 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 12 m

Spaziatura orizzontale : 2.4 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Berlinese

X : 0 m

Quota in alto : 29.5 m

Quota di fondo : 9.8 m

Sezione : Berlinese

Tirante : Tir-D2

X : 0 m

Z : 20.5 m

Lunghezza bulbo : 12 m

Diametro bulbo : 0.16 m

Lunghezza libera : 10 m

Spaziatura orizzontale : 2 m

Precarico : 480 kN

Angolo : 10 °

Sezione : 4 strands

Tipo di barre : Barre trefoli

Numero di barre : 4

Diametro : 0.01331 m

Area : 0.000556 m²

Trave di Ripartizione : Default Waler

Sezione : Waler Section 2 steel

HE 220A

Materiale : S275

Paratia : Cordolo

X : 0 m

Quota in alto : 30 m

Quota di fondo : 29.5 m

Sezione : Strut Section 2

Proprietà terreni dipendenti dallo stage

Strato di Terreno 2

Stage 1

Muro di sinistra Lato monte

Moltiplicatore di Rigidezza - Valore originario : , Valore modificato : 2

ϕ' - Valore originario : 19.5 °, Valore modificato : 28.35 °

Descrizione Coefficienti Design Assumption

Coefficienti A

Nome	Carichi Permanenti Sfavorevoli (F_dead_load_unfavour)	Carichi Permanenti Favorevoli (F_dead_load_favour)	Carichi Variabili Sfavorevoli (F_live_load_unfavour)	Carichi Variabili Favorevoli (F_live_load_favour)	Carico Sismico (F_seism_load)	Pressioni Monte (F_Wat_erDR)	Pressioni Valle (F_Wat_erRes)	Carichi Permanenti Destabili (F_UPL_GDStab)	Carichi Permanenti Stabilizzanti (F_UPL_GStab)	Carichi Variabili Destabili (F_UPL_QDStab)	Carichi Permanenti Destabilizzanti (F_HYD_GDStab)	Carichi Permanenti Stabilizzanti (F_HYD_GStab)	Carichi Variabili Destabilizzanti (F_HYD_QDStab)
Simbolo	γ_G	γ_G	γ_Q	γ_Q	γ_{QE}	γ_G	γ_G	γ_{Gdst}	γ_{Gstb}	γ_{Qdst}	γ_{Gdst}	γ_{Gstb}	γ_{Qdst}
Nominal	1	1	1	1	1	1	1	1	1	1	1	1	1
SLE (Rara)	1	1	1	1	0	1	1	1	1	1	1	1	1
A1+M1+R1	1.3	1	1.5	1	0	1.3	1	1	1	1	1.3	0.9	1
A2+M2+R1	1	1	1.3	1	0	1	1	1	1	1	1.3	0.9	1

Coefficienti M

Nome	Parziale su $\tan(\phi')$ (F_Fr)	Parziale su c' (F_eff_cohe)	Parziale su Su (F_Su)	Parziale su qu (F_qu)	Parziale su peso specifico (F_gamma)
Simbolo	γ_ϕ	γ_c	γ_{cu}	γ_{qu}	γ_γ
Nominal	1	1	1	1	1
SLE (Rara)	1	1	1	1	1
A1+M1+R1	1	1	1	1	1
A2+M2+R1	1.25	1.25	1.4	1	1

Coefficienti R

Nome	Parziale resistenza terreno (es. Kp) (F_Soil_Res_walls)	Parziale resistenza Tiranti permanenti (F_Anch_P)	Parziale resistenza Tiranti temporanei (F_Anch_T)	Parziale elementi strutturali (F_wall)
Simbolo	γ_{Re}	γ_{ap}	γ_{at}	
Nominal	1	1	1	1
SLE (Rara)	1	1	1	1
A1+M1+R1	1	1.2	1.1	1
A2+M2+R1	1	1.2	1.1	1

Risultati SLE (Rara)

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 1

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 1	30 0
Stage 1	29.8 0
Stage 1	29.6 0
Stage 1	29.5 0
Stage 1	29.3 0
Stage 1	29.1 0
Stage 1	28.9 0
Stage 1	28.7 0
Stage 1	28.5 0
Stage 1	28.3 0
Stage 1	28.1 0
Stage 1	27.9 0
Stage 1	27.7 0
Stage 1	27.5 0
Stage 1	27.3 0
Stage 1	27.1 0
Stage 1	26.9 0
Stage 1	26.7 0
Stage 1	26.5 0
Stage 1	26.3 0
Stage 1	26.1 0
Stage 1	25.9 0
Stage 1	25.7 0
Stage 1	25.5 0
Stage 1	25.3 0
Stage 1	25.1 0
Stage 1	25 0
Stage 1	24.8 0
Stage 1	24.6 0
Stage 1	24.4 0
Stage 1	24.2 0
Stage 1	24 0
Stage 1	23.8 0
Stage 1	23.6 0
Stage 1	23.4 0
Stage 1	23.2 0
Stage 1	23 0
Stage 1	22.8 0
Stage 1	22.6 0
Stage 1	22.5 0
Stage 1	22.3 0
Stage 1	22.1 0
Stage 1	21.9 0
Stage 1	21.7 0
Stage 1	21.5 0
Stage 1	21.3 0
Stage 1	21.1 0
Stage 1	20.9 0
Stage 1	20.7 0
Stage 1	20.5 0
Stage 1	20.3 0
Stage 1	20.1 0
Stage 1	19.9 0
Stage 1	19.7 0
Stage 1	19.5 0
Stage 1	19.3 0
Stage 1	19.1 0
Stage 1	18.9 0
Stage 1	18.7 0
Stage 1	18.5 0
Stage 1	18.3 0
Stage 1	18.1 0
Stage 1	17.9 0
Stage 1	17.7 0

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento		Muro: LEFT	
Stage	Z (m)	Spostamento (mm)	
Stage 1	17.5	0	
Stage 1	17.3	0	
Stage 1	17.1	0	
Stage 1	16.9	0	
Stage 1	16.7	0	
Stage 1	16.5	0	
Stage 1	16.3	0	
Stage 1	16.1	0	
Stage 1	15.9	0	
Stage 1	15.7	0	
Stage 1	15.5	0	
Stage 1	15.3	0	
Stage 1	15.1	0	
Stage 1	14.9	0	
Stage 1	14.7	0	
Stage 1	14.5	0	
Stage 1	14.3	0	
Stage 1	14.1	0	
Stage 1	13.9	0	
Stage 1	13.7	0	
Stage 1	13.5	0	
Stage 1	13.3	0	
Stage 1	13.1	0	
Stage 1	12.9	0	
Stage 1	12.7	0	
Stage 1	12.5	0	
Stage 1	12.3	0	
Stage 1	12.1	0	
Stage 1	11.9	0	
Stage 1	11.7	0	
Stage 1	11.5	0	
Stage 1	11.3	0	
Stage 1	11.1	0	
Stage 1	10.9	0	
Stage 1	10.7	0	
Stage 1	10.5	0	
Stage 1	10.3	0	
Stage 1	10.1	0	
Stage 1	9.9	0	
Stage 1	9.8	0	

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 1

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	29.5	0	0
Stage 1	29.3	0	0
Stage 1	29.1	0	0
Stage 1	28.9	0	0
Stage 1	28.7	0	0
Stage 1	28.5	0	0
Stage 1	28.3	0	0
Stage 1	28.1	0	0
Stage 1	27.9	0	0
Stage 1	27.7	0	0
Stage 1	27.5	0	0
Stage 1	27.3	0	0
Stage 1	27.1	0	0
Stage 1	26.9	0	0
Stage 1	26.7	0	0
Stage 1	26.5	0	0
Stage 1	26.3	0	0
Stage 1	26.1	0	0
Stage 1	25.9	0	0
Stage 1	25.7	0	0
Stage 1	25.5	0	0
Stage 1	25.3	0	0
Stage 1	25.1	0	0
Stage 1	25	0	0
Stage 1	24.8	0	0
Stage 1	24.6	0	0
Stage 1	24.4	0	0
Stage 1	24.2	0	0
Stage 1	24	0	0
Stage 1	23.8	0	0
Stage 1	23.6	0	0
Stage 1	23.4	0	0
Stage 1	23.2	0	0
Stage 1	23	0	0
Stage 1	22.8	0	0
Stage 1	22.6	0	0
Stage 1	22.5	0	0
Stage 1	22.3	0	0
Stage 1	22.1	0	0
Stage 1	21.9	0	0
Stage 1	21.7	0	0
Stage 1	21.5	0	0
Stage 1	21.3	0	0
Stage 1	21.1	0	0
Stage 1	20.9	0	0
Stage 1	20.7	0	0
Stage 1	20.5	0	0
Stage 1	20.3	0	0
Stage 1	20.1	0	0
Stage 1	19.9	0	0
Stage 1	19.7	0	0
Stage 1	19.5	0	0
Stage 1	19.3	0	0
Stage 1	19.1	0	0
Stage 1	18.9	0	0
Stage 1	18.7	0	0
Stage 1	18.5	0	0
Stage 1	18.3	0	0
Stage 1	18.1	0	0
Stage 1	17.9	0	0
Stage 1	17.7	0	0
Stage 1	17.5	0	0
Stage 1	17.3	0	0
Stage 1	17.1	0	0
Stage 1	16.9	0	0
Stage 1	16.7	0	0
Stage 1	16.5	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	16.3	0	0
Stage 1	16.1	0	0
Stage 1	15.9	0	0
Stage 1	15.7	0	0
Stage 1	15.5	0	0
Stage 1	15.3	0	0
Stage 1	15.1	0	0
Stage 1	14.9	0	0
Stage 1	14.7	0	0
Stage 1	14.5	0	0
Stage 1	14.3	0	0
Stage 1	14.1	0	0
Stage 1	13.9	0	0
Stage 1	13.7	0	0
Stage 1	13.5	0	0
Stage 1	13.3	0	0
Stage 1	13.1	0	0
Stage 1	12.9	0	0
Stage 1	12.7	0	0
Stage 1	12.5	0	0
Stage 1	12.3	0	0
Stage 1	12.1	0	0
Stage 1	11.9	0	0
Stage 1	11.7	0	0
Stage 1	11.5	0	0
Stage 1	11.3	0	0
Stage 1	11.1	0	0
Stage 1	10.9	0	0
Stage 1	10.7	0	0
Stage 1	10.5	0	0
Stage 1	10.3	0	0
Stage 1	10.1	0	0
Stage 1	9.9	0	0
Stage 1	9.8	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	30	0	0
Stage 1	29.8	0	0
Stage 1	29.6	0	0
Stage 1	29.5	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 2

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 2	30 0
Stage 2	29.8 0
Stage 2	29.6 0
Stage 2	29.5 0
Stage 2	29.3 9.01
Stage 2	29.1 8.46
Stage 2	28.9 7.9
Stage 2	28.7 7.35
Stage 2	28.5 6.8
Stage 2	28.3 6.25
Stage 2	28.1 5.7
Stage 2	27.9 5.16
Stage 2	27.7 4.62
Stage 2	27.5 4.09
Stage 2	27.3 3.58
Stage 2	27.1 3.08
Stage 2	26.9 2.61
Stage 2	26.7 2.17
Stage 2	26.5 1.76
Stage 2	26.3 1.39
Stage 2	26.1 1.06
Stage 2	25.9 0.77
Stage 2	25.7 0.53
Stage 2	25.5 0.33
Stage 2	25.3 0.17
Stage 2	25.1 0.04
Stage 2	25 -0.01
Stage 2	24.8 -0.09
Stage 2	24.6 -0.15
Stage 2	24.4 -0.19
Stage 2	24.2 -0.21
Stage 2	24 -0.22
Stage 2	23.8 -0.22
Stage 2	23.6 -0.21
Stage 2	23.4 -0.2
Stage 2	23.2 -0.18
Stage 2	23 -0.16
Stage 2	22.8 -0.14
Stage 2	22.6 -0.12
Stage 2	22.5 -0.11
Stage 2	22.3 -0.09
Stage 2	22.1 -0.07
Stage 2	21.9 -0.06
Stage 2	21.7 -0.04
Stage 2	21.5 -0.03
Stage 2	21.3 -0.02
Stage 2	21.1 -0.01
Stage 2	20.9 -0.01
Stage 2	20.7 0
Stage 2	20.5 0
Stage 2	20.3 0.01
Stage 2	20.1 0.01
Stage 2	19.9 0.01
Stage 2	19.7 0.01
Stage 2	19.5 0.01
Stage 2	19.3 0.01
Stage 2	19.1 0.01
Stage 2	18.9 0.01
Stage 2	18.7 0.01
Stage 2	18.5 0.01
Stage 2	18.3 0.01
Stage 2	18.1 0
Stage 2	17.9 0
Stage 2	17.7 0
Stage 2	17.5 0
Stage 2	17.3 0
Stage 2	17.1 0

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 2	16.9 0
Stage 2	16.7 0
Stage 2	16.5 0
Stage 2	16.3 0
Stage 2	16.1 0
Stage 2	15.9 0
Stage 2	15.7 0
Stage 2	15.5 0
Stage 2	15.3 0
Stage 2	15.1 0
Stage 2	14.9 0
Stage 2	14.7 0
Stage 2	14.5 0
Stage 2	14.3 0
Stage 2	14.1 0
Stage 2	13.9 0
Stage 2	13.7 0
Stage 2	13.5 0
Stage 2	13.3 0
Stage 2	13.1 0
Stage 2	12.9 0
Stage 2	12.7 0
Stage 2	12.5 0
Stage 2	12.3 0
Stage 2	12.1 0
Stage 2	11.9 0
Stage 2	11.7 0
Stage 2	11.5 0
Stage 2	11.3 0
Stage 2	11.1 0
Stage 2	10.9 0
Stage 2	10.7 0
Stage 2	10.5 0
Stage 2	10.3 0
Stage 2	10.1 0
Stage 2	9.9 0
Stage 2	9.8 0

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 2

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	29.5	0	0
Stage 2	29.3	0	0
Stage 2	29.3	0	0
Stage 2	29.1	-0.04	-0.2
Stage 2	28.9	-0.16	-0.61
Stage 2	28.7	-0.41	-1.22
Stage 2	28.5	-0.81	-2.03
Stage 2	28.3	-1.42	-3.05
Stage 2	28.1	-2.28	-4.27
Stage 2	27.9	-3.41	-5.69
Stage 2	27.7	-4.88	-7.32
Stage 2	27.5	-6.71	-9.14
Stage 2	27.3	-8.94	-11.18
Stage 2	27.1	-11.62	-13.41
Stage 2	26.9	-14.79	-15.85
Stage 2	26.7	-18.01	-16.06
Stage 2	26.5	-20.33	-11.62
Stage 2	26.3	-21.73	-7.02
Stage 2	26.1	-22.29	-2.77
Stage 2	25.9	-22.05	1.19
Stage 2	25.7	-21.07	4.92
Stage 2	25.5	-19.54	7.65
Stage 2	25.3	-17.66	9.36
Stage 2	25.1	-15.61	10.28
Stage 2	25	-14.56	10.53
Stage 2	24.8	-12.44	10.58
Stage 2	24.6	-10.4	10.2
Stage 2	24.4	-8.49	9.54
Stage 2	24.2	-6.75	8.69
Stage 2	24	-5.21	7.73
Stage 2	23.8	-3.86	6.73
Stage 2	23.6	-2.71	5.74
Stage 2	23.4	-1.75	4.79
Stage 2	23.2	-0.97	3.9
Stage 2	23	-0.36	3.1
Stage 2	22.8	0.12	2.38
Stage 2	22.6	0.47	1.76
Stage 2	22.5	0.61	1.36
Stage 2	22.3	0.81	1
Stage 2	22.1	0.93	0.6
Stage 2	21.9	0.99	0.28
Stage 2	21.7	0.99	0.03
Stage 2	21.5	0.96	-0.16
Stage 2	21.3	0.9	-0.29
Stage 2	21.1	0.83	-0.38
Stage 2	20.9	0.74	-0.44
Stage 2	20.7	0.64	-0.47
Stage 2	20.5	0.55	-0.47
Stage 2	20.3	0.46	-0.45
Stage 2	20.1	0.37	-0.42
Stage 2	19.9	0.3	-0.38
Stage 2	19.7	0.23	-0.34
Stage 2	19.5	0.17	-0.29
Stage 2	19.3	0.12	-0.24
Stage 2	19.1	0.08	-0.2
Stage 2	18.9	0.05	-0.17
Stage 2	18.7	0.02	-0.13
Stage 2	18.5	0	-0.11
Stage 2	18.3	-0.01	-0.08
Stage 2	18.1	-0.03	-0.06
Stage 2	17.9	-0.03	-0.04
Stage 2	17.7	-0.04	-0.02
Stage 2	17.5	-0.04	-0.01
Stage 2	17.3	-0.04	0
Stage 2	17.1	-0.04	0.01
Stage 2	16.9	-0.04	0.01
Stage 2	16.7	-0.03	0.02

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	16.5	-0.03	0.02
Stage 2	16.3	-0.03	0.02
Stage 2	16.1	-0.02	0.02
Stage 2	15.9	-0.02	0.02
Stage 2	15.7	-0.02	0.02
Stage 2	15.5	-0.01	0.02
Stage 2	15.3	-0.01	0.01
Stage 2	15.1	-0.01	0.01
Stage 2	14.9	-0.01	0.01
Stage 2	14.7	0	0.01
Stage 2	14.5	0	0.01
Stage 2	14.3	0	0.01
Stage 2	14.1	0	0
Stage 2	13.9	0	0
Stage 2	13.7	0	0
Stage 2	13.5	0	0
Stage 2	13.3	0	0
Stage 2	13.1	0	0
Stage 2	12.9	0	0
Stage 2	12.7	0	0
Stage 2	12.5	0	0
Stage 2	12.3	0	0
Stage 2	12.1	0	0
Stage 2	11.9	0	0
Stage 2	11.7	0	0
Stage 2	11.5	0	0
Stage 2	11.3	0	0
Stage 2	11.1	0	0
Stage 2	10.9	0	0
Stage 2	10.7	0	0
Stage 2	10.5	0	0
Stage 2	10.3	0	0
Stage 2	10.1	0	0
Stage 2	9.9	0	0
Stage 2	9.8	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	30	0	0
Stage 2	29.8	0	0
Stage 2	29.6	0	0
Stage 2	29.5	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 3

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 3	30 0
Stage 3	29.8 0
Stage 3	29.6 0
Stage 3	29.5 0
Stage 3	29.3 6.1
Stage 3	29.1 5.26
Stage 3	28.9 4.41
Stage 3	28.7 3.58
Stage 3	28.5 2.76
Stage 3	28.3 1.96
Stage 3	28.1 1.22
Stage 3	27.9 0.54
Stage 3	27.7 -0.05
Stage 3	27.5 -0.51
Stage 3	27.3 -0.82
Stage 3	27.1 -1.01
Stage 3	26.9 -1.1
Stage 3	26.7 -1.12
Stage 3	26.5 -1.09
Stage 3	26.3 -1.02
Stage 3	26.1 -0.93
Stage 3	25.9 -0.83
Stage 3	25.7 -0.73
Stage 3	25.5 -0.63
Stage 3	25.3 -0.53
Stage 3	25.1 -0.43
Stage 3	25 -0.39
Stage 3	24.8 -0.31
Stage 3	24.6 -0.24
Stage 3	24.4 -0.18
Stage 3	24.2 -0.13
Stage 3	24 -0.09
Stage 3	23.8 -0.06
Stage 3	23.6 -0.04
Stage 3	23.4 -0.02
Stage 3	23.2 0
Stage 3	23 0.01
Stage 3	22.8 0.01
Stage 3	22.6 0.02
Stage 3	22.5 0.02
Stage 3	22.3 0.02
Stage 3	22.1 0.02
Stage 3	21.9 0.02
Stage 3	21.7 0.02
Stage 3	21.5 0.02
Stage 3	21.3 0.01
Stage 3	21.1 0.01
Stage 3	20.9 0.01
Stage 3	20.7 0.01
Stage 3	20.5 0.01
Stage 3	20.3 0.01
Stage 3	20.1 0
Stage 3	19.9 0
Stage 3	19.7 0
Stage 3	19.5 0
Stage 3	19.3 0
Stage 3	19.1 0
Stage 3	18.9 0
Stage 3	18.7 0
Stage 3	18.5 0
Stage 3	18.3 0
Stage 3	18.1 0
Stage 3	17.9 0
Stage 3	17.7 0
Stage 3	17.5 0
Stage 3	17.3 0
Stage 3	17.1 0

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento		Muro: LEFT	
Stage	Z (m)	Spostamento (mm)	
Stage 3	16.9	0	
Stage 3	16.7	0	
Stage 3	16.5	0	
Stage 3	16.3	0	
Stage 3	16.1	0	
Stage 3	15.9	0	
Stage 3	15.7	0	
Stage 3	15.5	0	
Stage 3	15.3	0	
Stage 3	15.1	0	
Stage 3	14.9	0	
Stage 3	14.7	0	
Stage 3	14.5	0	
Stage 3	14.3	0	
Stage 3	14.1	0	
Stage 3	13.9	0	
Stage 3	13.7	0	
Stage 3	13.5	0	
Stage 3	13.3	0	
Stage 3	13.1	0	
Stage 3	12.9	0	
Stage 3	12.7	0	
Stage 3	12.5	0	
Stage 3	12.3	0	
Stage 3	12.1	0	
Stage 3	11.9	0	
Stage 3	11.7	0	
Stage 3	11.5	0	
Stage 3	11.3	0	
Stage 3	11.1	0	
Stage 3	10.9	0	
Stage 3	10.7	0	
Stage 3	10.5	0	
Stage 3	10.3	0	
Stage 3	10.1	0	
Stage 3	9.9	0	
Stage 3	9.8	0	

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 3

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	29.5	0	0
Stage 3	29.3	0	0
Stage 3	29.3	0	0
Stage 3	29.1	-0.97	-4.86
Stage 3	28.9	-3.56	-12.96
Stage 3	28.7	-7.97	-22.02
Stage 3	28.5	-14.37	-32
Stage 3	28.3	-22.94	-42.88
Stage 3	28.1	-33.86	-54.58
Stage 3	27.9	-47.26	-67.02
Stage 3	27.7	-63.27	-80.03
Stage 3	27.5	-81.95	-93.42
Stage 3	27.3	-63.95	90.04
Stage 3	27.1	-48.59	76.77
Stage 3	26.9	-35.8	63.97
Stage 3	26.7	-25.42	51.91
Stage 3	26.5	-17.26	40.78
Stage 3	26.3	-10.92	31.72
Stage 3	26.1	-6.07	24.21
Stage 3	25.9	-2.43	18.22
Stage 3	25.7	0.31	13.69
Stage 3	25.5	2.3	9.96
Stage 3	25.3	3.67	6.87
Stage 3	25.1	4.55	4.36
Stage 3	25	4.83	2.86
Stage 3	24.8	5.14	1.52
Stage 3	24.6	5.15	0.1
Stage 3	24.4	4.95	-1
Stage 3	24.2	4.59	-1.81
Stage 3	24	4.13	-2.31
Stage 3	23.8	3.62	-2.55
Stage 3	23.6	3.1	-2.61
Stage 3	23.4	2.59	-2.52
Stage 3	23.2	2.12	-2.35
Stage 3	23	1.7	-2.11
Stage 3	22.8	1.33	-1.85
Stage 3	22.6	1.01	-1.59
Stage 3	22.5	0.87	-1.39
Stage 3	22.3	0.63	-1.21
Stage 3	22.1	0.44	-0.98
Stage 3	21.9	0.28	-0.78
Stage 3	21.7	0.16	-0.6
Stage 3	21.5	0.07	-0.45
Stage 3	21.3	0.01	-0.33
Stage 3	21.1	-0.04	-0.23
Stage 3	20.9	-0.07	-0.15
Stage 3	20.7	-0.09	-0.09
Stage 3	20.5	-0.1	-0.05
Stage 3	20.3	-0.1	-0.01
Stage 3	20.1	-0.1	0.01
Stage 3	19.9	-0.09	0.03
Stage 3	19.7	-0.08	0.04
Stage 3	19.5	-0.07	0.05
Stage 3	19.3	-0.06	0.05
Stage 3	19.1	-0.05	0.05
Stage 3	18.9	-0.04	0.04
Stage 3	18.7	-0.04	0.04
Stage 3	18.5	-0.03	0.04
Stage 3	18.3	-0.02	0.03
Stage 3	18.1	-0.02	0.03
Stage 3	17.9	-0.01	0.02
Stage 3	17.7	-0.01	0.02
Stage 3	17.5	-0.01	0.02
Stage 3	17.3	0	0.01
Stage 3	17.1	0	0.01
Stage 3	16.9	0	0.01
Stage 3	16.7	0	0.01

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	16.5	0	0
Stage 3	16.3	0	0
Stage 3	16.1	0	0
Stage 3	15.9	0	0
Stage 3	15.7	0	0
Stage 3	15.5	0	0
Stage 3	15.3	0	0
Stage 3	15.1	0	0
Stage 3	14.9	0	0
Stage 3	14.7	0	0
Stage 3	14.5	0	0
Stage 3	14.3	0	0
Stage 3	14.1	0	0
Stage 3	13.9	0	0
Stage 3	13.7	0	0
Stage 3	13.5	0	0
Stage 3	13.3	0	0
Stage 3	13.1	0	0
Stage 3	12.9	0	0
Stage 3	12.7	0	0
Stage 3	12.5	0	0
Stage 3	12.3	0	0
Stage 3	12.1	0	0
Stage 3	11.9	0	0
Stage 3	11.7	0	0
Stage 3	11.5	0	0
Stage 3	11.3	0	0
Stage 3	11.1	0	0
Stage 3	10.9	0	0
Stage 3	10.7	0	0
Stage 3	10.5	0	0
Stage 3	10.3	0	0
Stage 3	10.1	0	0
Stage 3	9.9	0	0
Stage 3	9.8	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	30	0	0
Stage 3	29.8	0	0
Stage 3	29.6	0	0
Stage 3	29.5	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 4

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 4	30 0
Stage 4	29.8 0
Stage 4	29.6 0
Stage 4	29.5 0
Stage 4	29.3 5.52
Stage 4	29.1 4.79
Stage 4	28.9 4.07
Stage 4	28.7 3.36
Stage 4	28.5 2.66
Stage 4	28.3 2
Stage 4	28.1 1.38
Stage 4	27.9 0.83
Stage 4	27.7 0.37
Stage 4	27.5 0.05
Stage 4	27.3 -0.13
Stage 4	27.1 -0.18
Stage 4	26.9 -0.13
Stage 4	26.7 -0.02
Stage 4	26.5 0.14
Stage 4	26.3 0.33
Stage 4	26.1 0.52
Stage 4	25.9 0.72
Stage 4	25.7 0.89
Stage 4	25.5 1.05
Stage 4	25.3 1.17
Stage 4	25.1 1.26
Stage 4	25 1.29
Stage 4	24.8 1.32
Stage 4	24.6 1.32
Stage 4	24.4 1.28
Stage 4	24.2 1.21
Stage 4	24 1.13
Stage 4	23.8 1.03
Stage 4	23.6 0.92
Stage 4	23.4 0.81
Stage 4	23.2 0.7
Stage 4	23 0.59
Stage 4	22.8 0.49
Stage 4	22.6 0.4
Stage 4	22.5 0.35
Stage 4	22.3 0.27
Stage 4	22.1 0.2
Stage 4	21.9 0.14
Stage 4	21.7 0.09
Stage 4	21.5 0.05
Stage 4	21.3 0.01
Stage 4	21.1 -0.01
Stage 4	20.9 -0.03
Stage 4	20.7 -0.05
Stage 4	20.5 -0.06
Stage 4	20.3 -0.07
Stage 4	20.1 -0.07
Stage 4	19.9 -0.08
Stage 4	19.7 -0.08
Stage 4	19.5 -0.07
Stage 4	19.3 -0.07
Stage 4	19.1 -0.07
Stage 4	18.9 -0.06
Stage 4	18.7 -0.05
Stage 4	18.5 -0.05
Stage 4	18.3 -0.04
Stage 4	18.1 -0.04
Stage 4	17.9 -0.03
Stage 4	17.7 -0.03
Stage 4	17.5 -0.02
Stage 4	17.3 -0.02
Stage 4	17.1 -0.01

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 4	16.9 -0.01
Stage 4	16.7 -0.01
Stage 4	16.5 -0.01
Stage 4	16.3 0
Stage 4	16.1 0
Stage 4	15.9 0
Stage 4	15.7 0
Stage 4	15.5 0
Stage 4	15.3 0
Stage 4	15.1 0
Stage 4	14.9 0
Stage 4	14.7 0
Stage 4	14.5 0
Stage 4	14.3 0
Stage 4	14.1 0
Stage 4	13.9 0
Stage 4	13.7 0
Stage 4	13.5 0
Stage 4	13.3 0
Stage 4	13.1 0
Stage 4	12.9 0
Stage 4	12.7 0
Stage 4	12.5 0
Stage 4	12.3 0
Stage 4	12.1 0
Stage 4	11.9 0
Stage 4	11.7 0
Stage 4	11.5 0
Stage 4	11.3 0
Stage 4	11.1 0
Stage 4	10.9 0
Stage 4	10.7 0
Stage 4	10.5 0
Stage 4	10.3 0
Stage 4	10.1 0
Stage 4	9.9 0
Stage 4	9.8 0

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 4

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	29.5	0	0
Stage 4	29.3	0	0
Stage 4	29.3	0	0
Stage 4	29.1	-0.97	-4.86
Stage 4	28.9	-3.67	-13.51
Stage 4	28.7	-8.27	-22.97
Stage 4	28.5	-14.91	-33.21
Stage 4	28.3	-23.75	-44.2
Stage 4	28.1	-34.92	-55.85
Stage 4	27.9	-48.52	-67.98
Stage 4	27.7	-64.61	-80.45
Stage 4	27.5	-83.21	-93.05
Stage 4	27.3	-64.69	92.62
Stage 4	27.1	-48.56	80.65
Stage 4	26.9	-34.68	69.41
Stage 4	26.7	-22.86	59.09
Stage 4	26.5	-12.91	49.76
Stage 4	26.3	-4.62	41.47
Stage 4	26.1	2.22	34.18
Stage 4	25.9	7.79	27.83
Stage 4	25.7	12.25	22.3
Stage 4	25.5	15.64	16.96
Stage 4	25.3	17.96	11.6
Stage 4	25.1	19.2	6.18
Stage 4	25	19.4	2
Stage 4	24.8	18.95	-2.25
Stage 4	24.6	17.31	-8.17
Stage 4	24.4	14.43	-14.42
Stage 4	24.2	10.7	-18.63
Stage 4	24	7.03	-18.35
Stage 4	23.8	3.96	-15.38
Stage 4	23.6	1.44	-12.59
Stage 4	23.4	-0.57	-10.03
Stage 4	23.2	-2.11	-7.72
Stage 4	23	-3.25	-5.69
Stage 4	22.8	-4.04	-3.94
Stage 4	22.6	-4.53	-2.45
Stage 4	22.5	-4.68	-1.53
Stage 4	22.3	-4.82	-0.7
Stage 4	22.1	-4.78	0.19
Stage 4	21.9	-4.61	0.86
Stage 4	21.7	-4.34	1.36
Stage 4	21.5	-4	1.7
Stage 4	21.3	-3.61	1.92
Stage 4	21.1	-3.21	2.02
Stage 4	20.9	-2.81	2.02
Stage 4	20.7	-2.41	1.96
Stage 4	20.5	-2.04	1.86
Stage 4	20.3	-1.7	1.72
Stage 4	20.1	-1.38	1.57
Stage 4	19.9	-1.1	1.4
Stage 4	19.7	-0.86	1.23
Stage 4	19.5	-0.65	1.06
Stage 4	19.3	-0.47	0.89
Stage 4	19.1	-0.31	0.76
Stage 4	18.9	-0.19	0.64
Stage 4	18.7	-0.08	0.53
Stage 4	18.5	0.01	0.43
Stage 4	18.3	0.08	0.34
Stage 4	18.1	0.13	0.26
Stage 4	17.9	0.17	0.19
Stage 4	17.7	0.19	0.13
Stage 4	17.5	0.21	0.08
Stage 4	17.3	0.22	0.04
Stage 4	17.1	0.22	0.01
Stage 4	16.9	0.22	-0.02
Stage 4	16.7	0.21	-0.04

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	16.5	0.2	-0.06
Stage 4	16.3	0.18	-0.07
Stage 4	16.1	0.17	-0.08
Stage 4	15.9	0.15	-0.08
Stage 4	15.7	0.13	-0.08
Stage 4	15.5	0.12	-0.08
Stage 4	15.3	0.1	-0.08
Stage 4	15.1	0.08	-0.08
Stage 4	14.9	0.07	-0.07
Stage 4	14.7	0.06	-0.06
Stage 4	14.5	0.05	-0.06
Stage 4	14.3	0.04	-0.05
Stage 4	14.1	0.03	-0.05
Stage 4	13.9	0.02	-0.04
Stage 4	13.7	0.01	-0.03
Stage 4	13.5	0.01	-0.03
Stage 4	13.3	0	-0.02
Stage 4	13.1	0	-0.02
Stage 4	12.9	0	-0.01
Stage 4	12.7	-0.01	-0.01
Stage 4	12.5	-0.01	-0.01
Stage 4	12.3	-0.01	0
Stage 4	12.1	-0.01	0
Stage 4	11.9	-0.01	0
Stage 4	11.7	-0.01	0
Stage 4	11.5	-0.01	0
Stage 4	11.3	-0.01	0
Stage 4	11.1	0	0
Stage 4	10.9	0	0
Stage 4	10.7	0	0
Stage 4	10.5	0	0
Stage 4	10.3	0	0
Stage 4	10.1	0	0
Stage 4	9.9	0	0
Stage 4	9.8	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	30	0	0
Stage 4	29.8	0	0
Stage 4	29.6	0	0
Stage 4	29.5	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 5

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 5	30 0
Stage 5	29.8 0
Stage 5	29.6 0
Stage 5	29.5 0
Stage 5	29.3 7.01
Stage 5	29.1 5.91
Stage 5	28.9 4.81
Stage 5	28.7 3.71
Stage 5	28.5 2.62
Stage 5	28.3 1.56
Stage 5	28.1 0.53
Stage 5	27.9 -0.44
Stage 5	27.7 -1.33
Stage 5	27.5 -2.11
Stage 5	27.3 -2.75
Stage 5	27.1 -3.29
Stage 5	26.9 -3.74
Stage 5	26.7 -4.12
Stage 5	26.5 -4.46
Stage 5	26.3 -4.76
Stage 5	26.1 -5.03
Stage 5	25.9 -5.27
Stage 5	25.7 -5.46
Stage 5	25.5 -5.59
Stage 5	25.3 -5.66
Stage 5	25.1 -5.63
Stage 5	25 -5.57
Stage 5	24.8 -5.36
Stage 5	24.6 -5.04
Stage 5	24.4 -4.65
Stage 5	24.2 -4.22
Stage 5	24 -3.77
Stage 5	23.8 -3.32
Stage 5	23.6 -2.88
Stage 5	23.4 -2.45
Stage 5	23.2 -2.06
Stage 5	23 -1.69
Stage 5	22.8 -1.36
Stage 5	22.6 -1.07
Stage 5	22.5 -0.93
Stage 5	22.3 -0.69
Stage 5	22.1 -0.49
Stage 5	21.9 -0.32
Stage 5	21.7 -0.17
Stage 5	21.5 -0.06
Stage 5	21.3 0.03
Stage 5	21.1 0.1
Stage 5	20.9 0.15
Stage 5	20.7 0.19
Stage 5	20.5 0.21
Stage 5	20.3 0.22
Stage 5	20.1 0.22
Stage 5	19.9 0.22
Stage 5	19.7 0.21
Stage 5	19.5 0.2
Stage 5	19.3 0.18
Stage 5	19.1 0.17
Stage 5	18.9 0.15
Stage 5	18.7 0.13
Stage 5	18.5 0.11
Stage 5	18.3 0.09
Stage 5	18.1 0.08
Stage 5	17.9 0.06
Stage 5	17.7 0.05
Stage 5	17.5 0.04
Stage 5	17.3 0.03
Stage 5	17.1 0.02

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento		Muro: LEFT	
Stage	Z (m)	Spostamento (mm)	
Stage 5	16.9	0.01	
Stage 5	16.7	0.01	
Stage 5	16.5	0	
Stage 5	16.3	0	
Stage 5	16.1	-0.01	
Stage 5	15.9	-0.01	
Stage 5	15.7	-0.01	
Stage 5	15.5	-0.01	
Stage 5	15.3	-0.01	
Stage 5	15.1	-0.01	
Stage 5	14.9	-0.01	
Stage 5	14.7	-0.01	
Stage 5	14.5	-0.01	
Stage 5	14.3	-0.01	
Stage 5	14.1	-0.01	
Stage 5	13.9	-0.01	
Stage 5	13.7	-0.01	
Stage 5	13.5	-0.01	
Stage 5	13.3	-0.01	
Stage 5	13.1	0	
Stage 5	12.9	0	
Stage 5	12.7	0	
Stage 5	12.5	0	
Stage 5	12.3	0	
Stage 5	12.1	0	
Stage 5	11.9	0	
Stage 5	11.7	0	
Stage 5	11.5	0	
Stage 5	11.3	0	
Stage 5	11.1	0	
Stage 5	10.9	0	
Stage 5	10.7	0	
Stage 5	10.5	0	
Stage 5	10.3	0	
Stage 5	10.1	0	
Stage 5	9.9	0	
Stage 5	9.8	0	

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 5

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	29.5	0	0
Stage 5	29.3	0	0
Stage 5	29.3	0	0
Stage 5	29.1	-0.41	-2.03
Stage 5	28.9	-2.12	-8.57
Stage 5	28.7	-5.45	-16.64
Stage 5	28.5	-10.69	-26.22
Stage 5	28.3	-18.14	-37.25
Stage 5	28.1	-28.03	-49.43
Stage 5	27.9	-40.56	-62.68
Stage 5	27.7	-55.93	-76.85
Stage 5	27.5	-74.28	-91.76
Stage 5	27.3	-56.99	86.48
Stage 5	27.1	-42.81	70.91
Stage 5	26.9	-31.72	55.41
Stage 5	26.7	-23.7	40.13
Stage 5	26.5	-18.67	25.16
Stage 5	26.3	-16.56	10.53
Stage 5	26.1	-17.31	-3.75
Stage 5	25.9	-20.86	-17.74
Stage 5	25.7	-27.15	-31.47
Stage 5	25.5	-36.25	-45.5
Stage 5	25.3	-48.24	-59.93
Stage 5	25.1	-63.17	-74.67
Stage 5	25	-71.76	-85.88
Stage 5	24.8	-51.8	99.83
Stage 5	24.6	-34.83	84.82
Stage 5	24.4	-20.85	69.92
Stage 5	24.2	-9.79	55.29
Stage 5	24	-1.34	42.25
Stage 5	23.8	5.28	33.11
Stage 5	23.6	10.3	25.09
Stage 5	23.4	13.94	18.17
Stage 5	23.2	16.39	12.28
Stage 5	23	17.86	7.36
Stage 5	22.8	18.53	3.31
Stage 5	22.6	18.54	0.07
Stage 5	22.5	18.36	-1.83
Stage 5	22.3	17.66	-3.49
Stage 5	22.1	16.63	-5.14
Stage 5	21.9	15.37	-6.28
Stage 5	21.7	13.97	-7.02
Stage 5	21.5	12.49	-7.42
Stage 5	21.3	10.98	-7.53
Stage 5	21.1	9.5	-7.4
Stage 5	20.9	8.08	-7.1
Stage 5	20.7	6.75	-6.66
Stage 5	20.5	5.53	-6.12
Stage 5	20.3	4.42	-5.52
Stage 5	20.1	3.44	-4.89
Stage 5	19.9	2.59	-4.25
Stage 5	19.7	1.87	-3.63
Stage 5	19.5	1.26	-3.03
Stage 5	19.3	0.77	-2.46
Stage 5	19.1	0.36	-2.03
Stage 5	18.9	0.04	-1.64
Stage 5	18.7	-0.22	-1.28
Stage 5	18.5	-0.42	-0.97
Stage 5	18.3	-0.56	-0.7
Stage 5	18.1	-0.65	-0.48
Stage 5	17.9	-0.71	-0.28
Stage 5	17.7	-0.73	-0.13
Stage 5	17.5	-0.73	0
Stage 5	17.3	-0.71	0.1
Stage 5	17.1	-0.68	0.17
Stage 5	16.9	-0.63	0.23
Stage 5	16.7	-0.58	0.26

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	16.5	-0.53	0.28
Stage 5	16.3	-0.47	0.29
Stage 5	16.1	-0.41	0.29
Stage 5	15.9	-0.36	0.28
Stage 5	15.7	-0.3	0.26
Stage 5	15.5	-0.25	0.24
Stage 5	15.3	-0.21	0.22
Stage 5	15.1	-0.17	0.2
Stage 5	14.9	-0.13	0.18
Stage 5	14.7	-0.1	0.16
Stage 5	14.5	-0.07	0.14
Stage 5	14.3	-0.05	0.12
Stage 5	14.1	-0.03	0.1
Stage 5	13.9	-0.01	0.09
Stage 5	13.7	0	0.07
Stage 5	13.5	0.01	0.06
Stage 5	13.3	0.02	0.04
Stage 5	13.1	0.03	0.03
Stage 5	12.9	0.03	0.02
Stage 5	12.7	0.03	0.01
Stage 5	12.5	0.03	0
Stage 5	12.3	0.03	-0.01
Stage 5	12.1	0.03	-0.01
Stage 5	11.9	0.03	-0.01
Stage 5	11.7	0.03	-0.02
Stage 5	11.5	0.02	-0.02
Stage 5	11.3	0.02	-0.02
Stage 5	11.1	0.01	-0.02
Stage 5	10.9	0.01	-0.02
Stage 5	10.7	0.01	-0.02
Stage 5	10.5	0	-0.01
Stage 5	10.3	0	-0.01
Stage 5	10.1	0	-0.01
Stage 5	9.9	0	0
Stage 5	9.8	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	30	0	0
Stage 5	29.8	0	0
Stage 5	29.6	0	0
Stage 5	29.5	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 6

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 6	30 0
Stage 6	29.8 0
Stage 6	29.6 0
Stage 6	29.5 0
Stage 6	29.3 6.48
Stage 6	29.1 5.41
Stage 6	28.9 4.35
Stage 6	28.7 3.29
Stage 6	28.5 2.25
Stage 6	28.3 1.23
Stage 6	28.1 0.24
Stage 6	27.9 -0.68
Stage 6	27.7 -1.51
Stage 6	27.5 -2.23
Stage 6	27.3 -2.8
Stage 6	27.1 -3.25
Stage 6	26.9 -3.61
Stage 6	26.7 -3.89
Stage 6	26.5 -4.11
Stage 6	26.3 -4.27
Stage 6	26.1 -4.38
Stage 6	25.9 -4.44
Stage 6	25.7 -4.44
Stage 6	25.5 -4.37
Stage 6	25.3 -4.21
Stage 6	25.1 -3.93
Stage 6	25 -3.75
Stage 6	24.8 -3.26
Stage 6	24.6 -2.66
Stage 6	24.4 -1.99
Stage 6	24.2 -1.28
Stage 6	24 -0.56
Stage 6	23.8 0.14
Stage 6	23.6 0.81
Stage 6	23.4 1.42
Stage 6	23.2 1.96
Stage 6	23 2.42
Stage 6	22.8 2.79
Stage 6	22.6 3.08
Stage 6	22.5 3.18
Stage 6	22.3 3.33
Stage 6	22.1 3.38
Stage 6	21.9 3.36
Stage 6	21.7 3.27
Stage 6	21.5 3.12
Stage 6	21.3 2.92
Stage 6	21.1 2.7
Stage 6	20.9 2.46
Stage 6	20.7 2.2
Stage 6	20.5 1.95
Stage 6	20.3 1.7
Stage 6	20.1 1.47
Stage 6	19.9 1.24
Stage 6	19.7 1.03
Stage 6	19.5 0.84
Stage 6	19.3 0.67
Stage 6	19.1 0.51
Stage 6	18.9 0.38
Stage 6	18.7 0.26
Stage 6	18.5 0.16
Stage 6	18.3 0.07
Stage 6	18.1 0
Stage 6	17.9 -0.05
Stage 6	17.7 -0.1
Stage 6	17.5 -0.14
Stage 6	17.3 -0.16
Stage 6	17.1 -0.18

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 6	16.9 -0.19
Stage 6	16.7 -0.2
Stage 6	16.5 -0.2
Stage 6	16.3 -0.19
Stage 6	16.1 -0.18
Stage 6	15.9 -0.18
Stage 6	15.7 -0.16
Stage 6	15.5 -0.15
Stage 6	15.3 -0.14
Stage 6	15.1 -0.13
Stage 6	14.9 -0.11
Stage 6	14.7 -0.1
Stage 6	14.5 -0.09
Stage 6	14.3 -0.08
Stage 6	14.1 -0.06
Stage 6	13.9 -0.05
Stage 6	13.7 -0.04
Stage 6	13.5 -0.04
Stage 6	13.3 -0.03
Stage 6	13.1 -0.02
Stage 6	12.9 -0.02
Stage 6	12.7 -0.01
Stage 6	12.5 -0.01
Stage 6	12.3 0
Stage 6	12.1 0
Stage 6	11.9 0
Stage 6	11.7 0.01
Stage 6	11.5 0.01
Stage 6	11.3 0.01
Stage 6	11.1 0.01
Stage 6	10.9 0.01
Stage 6	10.7 0.01
Stage 6	10.5 0.01
Stage 6	10.3 0.01
Stage 6	10.1 0.01
Stage 6	9.9 0.01
Stage 6	9.8 0.01

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 6

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	29.5	0	0
Stage 6	29.3	0	0
Stage 6	29.3	0	0
Stage 6	29.1	-0.54	-2.7
Stage 6	28.9	-2.51	-9.87
Stage 6	28.7	-6.22	-18.51
Stage 6	28.5	-11.94	-28.62
Stage 6	28.3	-19.93	-39.95
Stage 6	28.1	-30.41	-52.4
Stage 6	27.9	-43.58	-65.87
Stage 6	27.7	-59.63	-80.23
Stage 6	27.5	-78.69	-95.29
Stage 6	27.3	-62.17	82.61
Stage 6	27.1	-48.77	67
Stage 6	26.9	-38.46	51.54
Stage 6	26.7	-31.17	36.42
Stage 6	26.5	-26.82	21.75
Stage 6	26.3	-25.31	7.57
Stage 6	26.1	-26.53	-6.09
Stage 6	25.9	-30.38	-19.25
Stage 6	25.7	-36.77	-31.94
Stage 6	25.5	-45.71	-44.7
Stage 6	25.3	-57.22	-57.58
Stage 6	25.1	-71.32	-70.48
Stage 6	25	-79.33	-80.09
Stage 6	24.8	-57.01	111.56
Stage 6	24.6	-37.17	99.2
Stage 6	24.4	-19.71	87.3
Stage 6	24.2	-4.53	75.94
Stage 6	24	8.5	65.14
Stage 6	23.8	19.48	54.91
Stage 6	23.6	28.53	45.22
Stage 6	23.4	35.73	36.02
Stage 6	23.2	41.18	27.22
Stage 6	23	44.92	18.74
Stage 6	22.8	47.02	10.47
Stage 6	22.6	47.48	2.31
Stage 6	22.5	47.1	-3.83
Stage 6	22.3	45.1	-10
Stage 6	22.1	41.41	-18.42
Stage 6	21.9	35.99	-27.13
Stage 6	21.7	29.22	-33.82
Stage 6	21.5	22	-36.13
Stage 6	21.3	15.17	-34.12
Stage 6	21.1	9.37	-29.03
Stage 6	20.9	4.51	-24.28
Stage 6	20.7	0.53	-19.91
Stage 6	20.5	-2.66	-15.92
Stage 6	20.3	-5.13	-12.35
Stage 6	20.1	-6.96	-9.19
Stage 6	19.9	-8.25	-6.43
Stage 6	19.7	-9.06	-4.06
Stage 6	19.5	-9.47	-2.05
Stage 6	19.3	-9.55	-0.39
Stage 6	19.1	-9.4	0.74
Stage 6	18.9	-9.07	1.63
Stage 6	18.7	-8.61	2.31
Stage 6	18.5	-8.05	2.81
Stage 6	18.3	-7.42	3.15
Stage 6	18.1	-6.75	3.34
Stage 6	17.9	-6.07	3.41
Stage 6	17.7	-5.39	3.38
Stage 6	17.5	-4.74	3.28
Stage 6	17.3	-4.11	3.13
Stage 6	17.1	-3.52	2.95
Stage 6	16.9	-2.97	2.75
Stage 6	16.7	-2.47	2.53

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	16.5	-2.01	2.3
Stage 6	16.3	-1.59	2.07
Stage 6	16.1	-1.23	1.84
Stage 6	15.9	-0.9	1.62
Stage 6	15.7	-0.62	1.41
Stage 6	15.5	-0.38	1.2
Stage 6	15.3	-0.18	1.02
Stage 6	15.1	-0.01	0.85
Stage 6	14.9	0.13	0.69
Stage 6	14.7	0.24	0.55
Stage 6	14.5	0.32	0.42
Stage 6	14.3	0.39	0.31
Stage 6	14.1	0.43	0.22
Stage 6	13.9	0.46	0.14
Stage 6	13.7	0.47	0.07
Stage 6	13.5	0.47	0.01
Stage 6	13.3	0.46	-0.05
Stage 6	13.1	0.44	-0.1
Stage 6	12.9	0.42	-0.13
Stage 6	12.7	0.38	-0.16
Stage 6	12.5	0.35	-0.18
Stage 6	12.3	0.31	-0.19
Stage 6	12.1	0.27	-0.19
Stage 6	11.9	0.23	-0.19
Stage 6	11.7	0.2	-0.19
Stage 6	11.5	0.16	-0.18
Stage 6	11.3	0.13	-0.16
Stage 6	11.1	0.1	-0.15
Stage 6	10.9	0.07	-0.13
Stage 6	10.7	0.05	-0.11
Stage 6	10.5	0.03	-0.09
Stage 6	10.3	0.02	-0.07
Stage 6	10.1	0.01	-0.05
Stage 6	9.9	0	-0.03
Stage 6	9.8	0	-0.01

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	30	0	0
Stage 6	29.8	0	0
Stage 6	29.6	0	0
Stage 6	29.5	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 7

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 7	30 0
Stage 7	29.8 0
Stage 7	29.6 0
Stage 7	29.5 0
Stage 7	29.3 7.26
Stage 7	29.1 6.15
Stage 7	28.9 5.04
Stage 7	28.7 3.93
Stage 7	28.5 2.84
Stage 7	28.3 1.77
Stage 7	28.1 0.73
Stage 7	27.9 -0.26
Stage 7	27.7 -1.17
Stage 7	27.5 -1.97
Stage 7	27.3 -2.65
Stage 7	27.1 -3.22
Stage 7	26.9 -3.72
Stage 7	26.7 -4.16
Stage 7	26.5 -4.56
Stage 7	26.3 -4.95
Stage 7	26.1 -5.31
Stage 7	25.9 -5.66
Stage 7	25.7 -5.98
Stage 7	25.5 -6.26
Stage 7	25.3 -6.5
Stage 7	25.1 -6.65
Stage 7	25 -6.7
Stage 7	24.8 -6.7
Stage 7	24.6 -6.62
Stage 7	24.4 -6.49
Stage 7	24.2 -6.34
Stage 7	24 -6.18
Stage 7	23.8 -6.03
Stage 7	23.6 -5.89
Stage 7	23.4 -5.77
Stage 7	23.2 -5.66
Stage 7	23 -5.54
Stage 7	22.8 -5.39
Stage 7	22.6 -5.2
Stage 7	22.5 -5.07
Stage 7	22.3 -4.76
Stage 7	22.1 -4.38
Stage 7	21.9 -3.97
Stage 7	21.7 -3.54
Stage 7	21.5 -3.11
Stage 7	21.3 -2.7
Stage 7	21.1 -2.31
Stage 7	20.9 -1.95
Stage 7	20.7 -1.62
Stage 7	20.5 -1.31
Stage 7	20.3 -1.04
Stage 7	20.1 -0.8
Stage 7	19.9 -0.59
Stage 7	19.7 -0.41
Stage 7	19.5 -0.26
Stage 7	19.3 -0.13
Stage 7	19.1 -0.02
Stage 7	18.9 0.06
Stage 7	18.7 0.12
Stage 7	18.5 0.17
Stage 7	18.3 0.2
Stage 7	18.1 0.23
Stage 7	17.9 0.24
Stage 7	17.7 0.24
Stage 7	17.5 0.24
Stage 7	17.3 0.23
Stage 7	17.1 0.22

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 7	16.9 0.2
Stage 7	16.7 0.19
Stage 7	16.5 0.17
Stage 7	16.3 0.15
Stage 7	16.1 0.13
Stage 7	15.9 0.11
Stage 7	15.7 0.09
Stage 7	15.5 0.08
Stage 7	15.3 0.06
Stage 7	15.1 0.05
Stage 7	14.9 0.04
Stage 7	14.7 0.03
Stage 7	14.5 0.02
Stage 7	14.3 0.01
Stage 7	14.1 0
Stage 7	13.9 0
Stage 7	13.7 -0.01
Stage 7	13.5 -0.01
Stage 7	13.3 -0.01
Stage 7	13.1 -0.01
Stage 7	12.9 -0.01
Stage 7	12.7 -0.01
Stage 7	12.5 -0.01
Stage 7	12.3 -0.01
Stage 7	12.1 -0.01
Stage 7	11.9 -0.01
Stage 7	11.7 -0.01
Stage 7	11.5 -0.01
Stage 7	11.3 -0.01
Stage 7	11.1 -0.01
Stage 7	10.9 -0.01
Stage 7	10.7 -0.01
Stage 7	10.5 0
Stage 7	10.3 0
Stage 7	10.1 0
Stage 7	9.9 0
Stage 7	9.8 0

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 7

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	29.5	0	0
Stage 7	29.3	0	0
Stage 7	29.3	0	0
Stage 7	29.1	-0.34	-1.71
Stage 7	28.9	-1.93	-7.95
Stage 7	28.7	-5.08	-15.72
Stage 7	28.5	-10.08	-25.01
Stage 7	28.3	-17.2	-35.59
Stage 7	28.1	-26.67	-47.36
Stage 7	27.9	-38.72	-60.22
Stage 7	27.7	-53.53	-74.06
Stage 7	27.5	-71.26	-88.68
Stage 7	27.3	-53.25	90.07
Stage 7	27.1	-38.32	74.65
Stage 7	26.9	-26.47	59.24
Stage 7	26.7	-17.67	43.98
Stage 7	26.5	-11.88	28.99
Stage 7	26.3	-9.02	14.28
Stage 7	26.1	-9.05	-0.15
Stage 7	25.9	-11.92	-14.36
Stage 7	25.7	-17.6	-28.39
Stage 7	25.5	-26.17	-42.84
Stage 7	25.3	-37.73	-57.79
Stage 7	25.1	-52.37	-73.19
Stage 7	25	-60.87	-85.01
Stage 7	24.8	-41.38	97.44
Stage 7	24.6	-25.1	81.37
Stage 7	24.4	-12.06	65.22
Stage 7	24.2	-2.25	49.04
Stage 7	24	4.32	32.86
Stage 7	23.8	7.65	16.67
Stage 7	23.6	7.75	0.47
Stage 7	23.4	4.59	-15.77
Stage 7	23.2	-1.83	-32.08
Stage 7	23	-11.52	-48.48
Stage 7	22.8	-24.52	-64.98
Stage 7	22.6	-40.83	-81.58
Stage 7	22.5	-50.24	-94.08
Stage 7	22.3	-32.17	90.35
Stage 7	22.1	-17.44	73.64
Stage 7	21.9	-6.05	56.96
Stage 7	21.7	2.03	40.41
Stage 7	21.5	7.28	26.23
Stage 7	21.3	10.75	17.34
Stage 7	21.1	13.25	12.54
Stage 7	20.9	14.94	8.42
Stage 7	20.7	15.92	4.94
Stage 7	20.5	16.33	2.05
Stage 7	20.3	16.27	-0.3
Stage 7	20.1	15.84	-2.17
Stage 7	19.9	15.12	-3.62
Stage 7	19.7	14.18	-4.7
Stage 7	19.5	13.09	-5.45
Stage 7	19.3	11.9	-5.94
Stage 7	19.1	10.68	-6.09
Stage 7	18.9	9.47	-6.06
Stage 7	18.7	8.29	-5.89
Stage 7	18.5	7.17	-5.61
Stage 7	18.3	6.12	-5.27
Stage 7	18.1	5.14	-4.89
Stage 7	17.9	4.24	-4.49
Stage 7	17.7	3.42	-4.08
Stage 7	17.5	2.69	-3.67
Stage 7	17.3	2.04	-3.26
Stage 7	17.1	1.47	-2.85
Stage 7	16.9	0.98	-2.45
Stage 7	16.7	0.56	-2.08

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	16.5	0.22	-1.73
Stage 7	16.3	-0.06	-1.41
Stage 7	16.1	-0.29	-1.12
Stage 7	15.9	-0.46	-0.86
Stage 7	15.7	-0.59	-0.63
Stage 7	15.5	-0.67	-0.44
Stage 7	15.3	-0.73	-0.27
Stage 7	15.1	-0.75	-0.13
Stage 7	14.9	-0.75	-0.01
Stage 7	14.7	-0.74	0.09
Stage 7	14.5	-0.7	0.16
Stage 7	14.3	-0.66	0.22
Stage 7	14.1	-0.61	0.26
Stage 7	13.9	-0.55	0.28
Stage 7	13.7	-0.5	0.3
Stage 7	13.5	-0.44	0.3
Stage 7	13.3	-0.38	0.29
Stage 7	13.1	-0.32	0.28
Stage 7	12.9	-0.27	0.25
Stage 7	12.7	-0.23	0.23
Stage 7	12.5	-0.18	0.21
Stage 7	12.3	-0.15	0.18
Stage 7	12.1	-0.12	0.16
Stage 7	11.9	-0.09	0.13
Stage 7	11.7	-0.07	0.11
Stage 7	11.5	-0.05	0.09
Stage 7	11.3	-0.03	0.07
Stage 7	11.1	-0.02	0.06
Stage 7	10.9	-0.01	0.04
Stage 7	10.7	-0.01	0.03
Stage 7	10.5	0	0.02
Stage 7	10.3	0	0.01
Stage 7	10.1	0	0
Stage 7	9.9	0	0
Stage 7	9.8	0	0

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	30	0	0
Stage 7	29.8	0	0
Stage 7	29.6	0	0
Stage 7	29.5	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 8

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 8	30 0
Stage 8	29.8 0
Stage 8	29.6 0
Stage 8	29.5 0
Stage 8	29.3 7.23
Stage 8	29.1 6.08
Stage 8	28.9 4.93
Stage 8	28.7 3.79
Stage 8	28.5 2.66
Stage 8	28.3 1.54
Stage 8	28.1 0.47
Stage 8	27.9 -0.56
Stage 8	27.7 -1.5
Stage 8	27.5 -2.34
Stage 8	27.3 -3.05
Stage 8	27.1 -3.65
Stage 8	26.9 -4.17
Stage 8	26.7 -4.63
Stage 8	26.5 -5.05
Stage 8	26.3 -5.44
Stage 8	26.1 -5.79
Stage 8	25.9 -6.12
Stage 8	25.7 -6.4
Stage 8	25.5 -6.64
Stage 8	25.3 -6.8
Stage 8	25.1 -6.87
Stage 8	25 -6.86
Stage 8	24.8 -6.74
Stage 8	24.6 -6.51
Stage 8	24.4 -6.2
Stage 8	24.2 -5.83
Stage 8	24 -5.43
Stage 8	23.8 -4.99
Stage 8	23.6 -4.53
Stage 8	23.4 -4.05
Stage 8	23.2 -3.53
Stage 8	23 -2.97
Stage 8	22.8 -2.35
Stage 8	22.6 -1.63
Stage 8	22.5 -1.24
Stage 8	22.3 -0.35
Stage 8	22.1 0.62
Stage 8	21.9 1.65
Stage 8	21.7 2.69
Stage 8	21.5 3.72
Stage 8	21.3 4.7
Stage 8	21.1 5.62
Stage 8	20.9 6.46
Stage 8	20.7 7.2
Stage 8	20.5 7.83
Stage 8	20.3 8.34
Stage 8	20.1 8.73
Stage 8	19.9 9
Stage 8	19.7 9.15
Stage 8	19.5 9.18
Stage 8	19.3 9.09
Stage 8	19.1 8.91
Stage 8	18.9 8.63
Stage 8	18.7 8.26
Stage 8	18.5 7.83
Stage 8	18.3 7.33
Stage 8	18.1 6.8
Stage 8	17.9 6.24
Stage 8	17.7 5.66
Stage 8	17.5 5.09
Stage 8	17.3 4.52
Stage 8	17.1 3.97

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 8	16.9 3.45
Stage 8	16.7 2.96
Stage 8	16.5 2.5
Stage 8	16.3 2.08
Stage 8	16.1 1.69
Stage 8	15.9 1.35
Stage 8	15.7 1.04
Stage 8	15.5 0.77
Stage 8	15.3 0.53
Stage 8	15.1 0.33
Stage 8	14.9 0.16
Stage 8	14.7 0.01
Stage 8	14.5 -0.1
Stage 8	14.3 -0.2
Stage 8	14.1 -0.27
Stage 8	13.9 -0.32
Stage 8	13.7 -0.36
Stage 8	13.5 -0.39
Stage 8	13.3 -0.4
Stage 8	13.1 -0.4
Stage 8	12.9 -0.39
Stage 8	12.7 -0.38
Stage 8	12.5 -0.36
Stage 8	12.3 -0.34
Stage 8	12.1 -0.32
Stage 8	11.9 -0.29
Stage 8	11.7 -0.26
Stage 8	11.5 -0.23
Stage 8	11.3 -0.2
Stage 8	11.1 -0.16
Stage 8	10.9 -0.13
Stage 8	10.7 -0.1
Stage 8	10.5 -0.07
Stage 8	10.3 -0.03
Stage 8	10.1 0
Stage 8	9.9 0.03
Stage 8	9.8 0.05

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 8

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	29.5	0	0
Stage 8	29.3	0	0
Stage 8	29.3	0	0
Stage 8	29.1	-0.35	-1.74
Stage 8	28.9	-1.96	-8.04
Stage 8	28.7	-5.14	-15.92
Stage 8	28.5	-10.21	-25.35
Stage 8	28.3	-17.43	-36.11
Stage 8	28.1	-27.05	-48.1
Stage 8	27.9	-39.3	-61.23
Stage 8	27.7	-54.37	-75.36
Stage 8	27.5	-72.43	-90.32
Stage 8	27.3	-54.97	87.31
Stage 8	27.1	-40.66	71.57
Stage 8	26.9	-29.49	55.85
Stage 8	26.7	-21.43	40.3
Stage 8	26.5	-16.43	25
Stage 8	26.3	-14.43	10
Stage 8	26.1	-15.38	-4.74
Stage 8	25.9	-19.23	-19.25
Stage 8	25.7	-25.94	-33.57
Stage 8	25.5	-35.6	-48.29
Stage 8	25.3	-48.29	-63.47
Stage 8	25.1	-64.1	-79.06
Stage 8	25	-73.2	-90.98
Stage 8	24.8	-55	91.02
Stage 8	24.6	-40.01	74.93
Stage 8	24.4	-28.24	58.89
Stage 8	24.2	-19.64	43
Stage 8	24	-14.17	27.33
Stage 8	23.8	-11.79	11.9
Stage 8	23.6	-12.44	-3.27
Stage 8	23.4	-16.08	-18.15
Stage 8	23.2	-22.62	-32.74
Stage 8	23	-32.03	-47.02
Stage 8	22.8	-44.22	-60.96
Stage 8	22.6	-59.12	-74.52
Stage 8	22.5	-67.56	-84.36
Stage 8	22.3	-45.11	112.27
Stage 8	22.1	-25.12	99.95
Stage 8	21.9	-7.46	88.26
Stage 8	21.7	7.98	77.23
Stage 8	21.5	21.35	66.84
Stage 8	21.3	32.76	57.08
Stage 8	21.1	42.34	47.89
Stage 8	20.9	50.19	39.22
Stage 8	20.7	56.28	30.48
Stage 8	20.5	60.59	21.54
Stage 8	20.3	63.07	12.4
Stage 8	20.1	63.68	3.05
Stage 8	19.9	62.38	-6.5
Stage 8	19.7	59.61	-13.83
Stage 8	19.5	56.31	-16.5
Stage 8	19.3	53.41	-14.51
Stage 8	19.1	48.88	-22.65
Stage 8	18.9	43.07	-29.06
Stage 8	18.7	36.32	-33.77
Stage 8	18.5	28.97	-36.75
Stage 8	18.3	21.36	-38.02
Stage 8	18.1	13.85	-37.58
Stage 8	17.9	6.76	-35.42
Stage 8	17.7	0.45	-31.55
Stage 8	17.5	-4.94	-26.94
Stage 8	17.3	-9.42	-22.42
Stage 8	17.1	-13.02	-17.97
Stage 8	16.9	-15.74	-13.6
Stage 8	16.7	-17.65	-9.58

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	16.5	-18.88	-6.12
Stage 8	16.3	-19.51	-3.18
Stage 8	16.1	-19.66	-0.73
Stage 8	15.9	-19.4	1.29
Stage 8	15.7	-18.82	2.9
Stage 8	15.5	-17.99	4.16
Stage 8	15.3	-16.97	5.11
Stage 8	15.1	-15.81	5.77
Stage 8	14.9	-14.57	6.21
Stage 8	14.7	-13.28	6.44
Stage 8	14.5	-11.98	6.5
Stage 8	14.3	-10.7	6.42
Stage 8	14.1	-9.45	6.24
Stage 8	13.9	-8.26	5.98
Stage 8	13.7	-7.12	5.68
Stage 8	13.5	-6.06	5.33
Stage 8	13.3	-5.08	4.87
Stage 8	13.1	-4.21	4.38
Stage 8	12.9	-3.43	3.9
Stage 8	12.7	-2.74	3.42
Stage 8	12.5	-2.15	2.96
Stage 8	12.3	-1.64	2.52
Stage 8	12.1	-1.22	2.11
Stage 8	11.9	-0.87	1.73
Stage 8	11.7	-0.6	1.39
Stage 8	11.5	-0.38	1.07
Stage 8	11.3	-0.22	0.8
Stage 8	11.1	-0.11	0.56
Stage 8	10.9	-0.04	0.36
Stage 8	10.7	0	0.2
Stage 8	10.5	0.02	0.08
Stage 8	10.3	0.02	0
Stage 8	10.1	0.01	-0.04
Stage 8	9.9	0	-0.05
Stage 8	9.8	0	-0.02

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	30	0	0
Stage 8	29.8	0	0
Stage 8	29.6	0	0
Stage 8	29.5	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 9

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento Muro: LEFT		
Stage	Z (m)	Spostamento (mm)
Stage 9	30	0
Stage 9	29.8	0
Stage 9	29.6	0
Stage 9	29.5	0
Stage 9	29.3	7.36
Stage 9	29.1	6.25
Stage 9	28.9	5.13
Stage 9	28.7	4.03
Stage 9	28.5	2.93
Stage 9	28.3	1.85
Stage 9	28.1	0.8
Stage 9	27.9	-0.19
Stage 9	27.7	-1.11
Stage 9	27.5	-1.92
Stage 9	27.3	-2.61
Stage 9	27.1	-3.19
Stage 9	26.9	-3.7
Stage 9	26.7	-4.16
Stage 9	26.5	-4.59
Stage 9	26.3	-5
Stage 9	26.1	-5.39
Stage 9	25.9	-5.77
Stage 9	25.7	-6.14
Stage 9	25.5	-6.47
Stage 9	25.3	-6.76
Stage 9	25.1	-6.98
Stage 9	25	-7.06
Stage 9	24.8	-7.15
Stage 9	24.6	-7.16
Stage 9	24.4	-7.13
Stage 9	24.2	-7.08
Stage 9	24	-7.04
Stage 9	23.8	-7.02
Stage 9	23.6	-7.02
Stage 9	23.4	-7.04
Stage 9	23.2	-7.07
Stage 9	23	-7.11
Stage 9	22.8	-7.13
Stage 9	22.6	-7.1
Stage 9	22.5	-7.05
Stage 9	22.3	-6.9
Stage 9	22.1	-6.67
Stage 9	21.9	-6.4
Stage 9	21.7	-6.09
Stage 9	21.5	-5.76
Stage 9	21.3	-5.41
Stage 9	21.1	-5.04
Stage 9	20.9	-4.62
Stage 9	20.7	-4.15
Stage 9	20.5	-3.59
Stage 9	20.3	-2.93
Stage 9	20.1	-2.19
Stage 9	19.9	-1.44
Stage 9	19.7	-0.69
Stage 9	19.5	0.02
Stage 9	19.3	0.67
Stage 9	19.1	1.24
Stage 9	18.9	1.72
Stage 9	18.7	2.12
Stage 9	18.5	2.42
Stage 9	18.3	2.63
Stage 9	18.1	2.76
Stage 9	17.9	2.81
Stage 9	17.7	2.81
Stage 9	17.5	2.75
Stage 9	17.3	2.65
Stage 9	17.1	2.52

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento		
Stage	Z (m)	Muro: LEFT Spostamento (mm)
Stage 9	16.9	2.37
Stage 9	16.7	2.19
Stage 9	16.5	2.01
Stage 9	16.3	1.82
Stage 9	16.1	1.63
Stage 9	15.9	1.44
Stage 9	15.7	1.26
Stage 9	15.5	1.09
Stage 9	15.3	0.92
Stage 9	15.1	0.77
Stage 9	14.9	0.63
Stage 9	14.7	0.51
Stage 9	14.5	0.39
Stage 9	14.3	0.29
Stage 9	14.1	0.2
Stage 9	13.9	0.13
Stage 9	13.7	0.06
Stage 9	13.5	0
Stage 9	13.3	-0.04
Stage 9	13.1	-0.08
Stage 9	12.9	-0.11
Stage 9	12.7	-0.13
Stage 9	12.5	-0.15
Stage 9	12.3	-0.16
Stage 9	12.1	-0.17
Stage 9	11.9	-0.17
Stage 9	11.7	-0.17
Stage 9	11.5	-0.16
Stage 9	11.3	-0.16
Stage 9	11.1	-0.15
Stage 9	10.9	-0.14
Stage 9	10.7	-0.13
Stage 9	10.5	-0.12
Stage 9	10.3	-0.11
Stage 9	10.1	-0.1
Stage 9	9.9	-0.09
Stage 9	9.8	-0.09

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 9

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	29.5	0	0
Stage 9	29.3	0	0
Stage 9	29.3	0	0
Stage 9	29.1	-0.32	-1.61
Stage 9	28.9	-1.87	-7.75
Stage 9	28.7	-4.96	-15.42
Stage 9	28.5	-9.88	-24.62
Stage 9	28.3	-16.9	-35.12
Stage 9	28.1	-26.26	-46.8
Stage 9	27.9	-38.18	-59.59
Stage 9	27.7	-52.85	-73.36
Stage 9	27.5	-70.44	-87.92
Stage 9	27.3	-52.24	91
Stage 9	27.1	-37.09	75.71
Stage 9	26.9	-25.01	60.45
Stage 9	26.7	-15.93	45.37
Stage 9	26.5	-9.82	30.54
Stage 9	26.3	-6.62	16
Stage 9	26.1	-6.28	1.7
Stage 9	25.9	-8.77	-12.41
Stage 9	25.7	-14.04	-26.39
Stage 9	25.5	-22.21	-40.84
Stage 9	25.3	-33.38	-55.86
Stage 9	25.1	-47.66	-71.41
Stage 9	25	-56	-83.38
Stage 9	24.8	-36.39	98.06
Stage 9	24.6	-20.05	81.72
Stage 9	24.4	-7	65.23
Stage 9	24.2	2.73	48.66
Stage 9	24	9.14	32.01
Stage 9	23.8	12.19	15.29
Stage 9	23.6	11.89	-1.52
Stage 9	23.4	8.2	-18.47
Stage 9	23.2	1.08	-35.56
Stage 9	23	-9.48	-52.84
Stage 9	22.8	-23.55	-70.32
Stage 9	22.6	-41.15	-88
Stage 9	22.5	-51.29	-101.4
Stage 9	22.3	-35.83	77.3
Stage 9	22.1	-23.98	59.25
Stage 9	21.9	-15.75	41.14
Stage 9	21.7	-11.15	22.98
Stage 9	21.5	-10.2	4.79
Stage 9	21.3	-12.88	-13.44
Stage 9	21.1	-19.23	-31.7
Stage 9	20.9	-29.22	-49.99
Stage 9	20.7	-42.94	-68.6
Stage 9	20.5	-60.45	-87.53
Stage 9	20.3	-34.51	129.68
Stage 9	20.1	-12.43	110.45
Stage 9	19.9	5.82	91.24
Stage 9	19.7	20.27	72.24
Stage 9	19.5	31.28	55.05
Stage 9	19.3	39.94	43.31
Stage 9	19.1	45.2	26.25
Stage 9	18.9	47.52	11.6
Stage 9	18.7	47.39	-0.65
Stage 9	18.5	45.29	-10.49
Stage 9	18.3	41.7	-17.96
Stage 9	18.1	37.08	-23.07
Stage 9	17.9	31.91	-25.87
Stage 9	17.7	26.64	-26.32
Stage 9	17.5	21.58	-25.32
Stage 9	17.3	16.83	-23.75
Stage 9	17.1	12.49	-21.66
Stage 9	16.9	8.67	-19.12
Stage 9	16.7	5.38	-16.47

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	16.5	2.58	-13.98
Stage 9	16.3	0.25	-11.66
Stage 9	16.1	-1.66	-9.53
Stage 9	15.9	-3.17	-7.59
Stage 9	15.7	-4.35	-5.88
Stage 9	15.5	-5.22	-4.37
Stage 9	15.3	-5.84	-3.07
Stage 9	15.1	-6.23	-1.96
Stage 9	14.9	-6.44	-1.03
Stage 9	14.7	-6.49	-0.26
Stage 9	14.5	-6.42	0.35
Stage 9	14.3	-6.25	0.85
Stage 9	14.1	-6	1.24
Stage 9	13.9	-5.69	1.56
Stage 9	13.7	-5.33	1.81
Stage 9	13.5	-4.93	1.99
Stage 9	13.3	-4.5	2.13
Stage 9	13.1	-4.06	2.2
Stage 9	12.9	-3.62	2.22
Stage 9	12.7	-3.18	2.19
Stage 9	12.5	-2.76	2.12
Stage 9	12.3	-2.36	2.01
Stage 9	12.1	-1.98	1.88
Stage 9	11.9	-1.63	1.74
Stage 9	11.7	-1.32	1.58
Stage 9	11.5	-1.03	1.41
Stage 9	11.3	-0.79	1.23
Stage 9	11.1	-0.58	1.05
Stage 9	10.9	-0.4	0.87
Stage 9	10.7	-0.26	0.7
Stage 9	10.5	-0.15	0.54
Stage 9	10.3	-0.08	0.39
Stage 9	10.1	-0.03	0.25
Stage 9	9.9	0	0.12
Stage 9	9.8	0	0.03

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	30	0	0
Stage 9	29.8	0	0
Stage 9	29.6	0	0
Stage 9	29.5	0	0

Tabella Spostamento SLE (Rara) - LEFT Stage: Stage 10

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 10	30 0
Stage 10	29.8 0
Stage 10	29.6 0
Stage 10	29.5 0
Stage 10	29.3 7.4
Stage 10	29.1 6.28
Stage 10	28.9 5.15
Stage 10	28.7 4.04
Stage 10	28.5 2.93
Stage 10	28.3 1.85
Stage 10	28.1 0.79
Stage 10	27.9 -0.21
Stage 10	27.7 -1.13
Stage 10	27.5 -1.95
Stage 10	27.3 -2.65
Stage 10	27.1 -3.24
Stage 10	26.9 -3.76
Stage 10	26.7 -4.23
Stage 10	26.5 -4.66
Stage 10	26.3 -5.08
Stage 10	26.1 -5.48
Stage 10	25.9 -5.87
Stage 10	25.7 -6.24
Stage 10	25.5 -6.58
Stage 10	25.3 -6.88
Stage 10	25.1 -7.11
Stage 10	25 -7.19
Stage 10	24.8 -7.27
Stage 10	24.6 -7.29
Stage 10	24.4 -7.25
Stage 10	24.2 -7.2
Stage 10	24 -7.15
Stage 10	23.8 -7.11
Stage 10	23.6 -7.09
Stage 10	23.4 -7.09
Stage 10	23.2 -7.09
Stage 10	23 -7.09
Stage 10	22.8 -7.06
Stage 10	22.6 -6.98
Stage 10	22.5 -6.9
Stage 10	22.3 -6.68
Stage 10	22.1 -6.37
Stage 10	21.9 -6.01
Stage 10	21.7 -5.6
Stage 10	21.5 -5.16
Stage 10	21.3 -4.69
Stage 10	21.1 -4.18
Stage 10	20.9 -3.62
Stage 10	20.7 -3
Stage 10	20.5 -2.28
Stage 10	20.3 -1.45
Stage 10	20.1 -0.56
Stage 10	19.9 0.36
Stage 10	19.7 1.27
Stage 10	19.5 2.12
Stage 10	19.3 2.89
Stage 10	19.1 3.57
Stage 10	18.9 4.13
Stage 10	18.7 4.57
Stage 10	18.5 4.89
Stage 10	18.3 5.09
Stage 10	18.1 5.19
Stage 10	17.9 5.18
Stage 10	17.7 5.08
Stage 10	17.5 4.91
Stage 10	17.3 4.68
Stage 10	17.1 4.4

Design Assumption: SLE (Rara) Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m) Spostamento (mm)
Stage 10	16.9 4.09
Stage 10	16.7 3.76
Stage 10	16.5 3.41
Stage 10	16.3 3.07
Stage 10	16.1 2.73
Stage 10	15.9 2.4
Stage 10	15.7 2.09
Stage 10	15.5 1.79
Stage 10	15.3 1.51
Stage 10	15.1 1.26
Stage 10	14.9 1.03
Stage 10	14.7 0.82
Stage 10	14.5 0.63
Stage 10	14.3 0.46
Stage 10	14.1 0.32
Stage 10	13.9 0.19
Stage 10	13.7 0.09
Stage 10	13.5 0
Stage 10	13.3 -0.07
Stage 10	13.1 -0.13
Stage 10	12.9 -0.18
Stage 10	12.7 -0.21
Stage 10	12.5 -0.24
Stage 10	12.3 -0.25
Stage 10	12.1 -0.26
Stage 10	11.9 -0.26
Stage 10	11.7 -0.26
Stage 10	11.5 -0.25
Stage 10	11.3 -0.25
Stage 10	11.1 -0.23
Stage 10	10.9 -0.22
Stage 10	10.7 -0.21
Stage 10	10.5 -0.19
Stage 10	10.3 -0.18
Stage 10	10.1 -0.16
Stage 10	9.9 -0.14
Stage 10	9.8 -0.14

Tabella Risultati Paratia SLE (Rara) - Left Wall - Stage: Stage 10

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	29.5	0	0
Stage 10	29.3	0	0
Stage 10	29.3	0	0
Stage 10	29.1	-0.32	-1.58
Stage 10	28.9	-1.85	-7.69
Stage 10	28.7	-4.92	-15.35
Stage 10	28.5	-9.83	-24.53
Stage 10	28.3	-16.83	-35.02
Stage 10	28.1	-26.18	-46.71
Stage 10	27.9	-38.08	-59.51
Stage 10	27.7	-52.74	-73.29
Stage 10	27.5	-70.31	-87.87
Stage 10	27.3	-52.12	90.96
Stage 10	27.1	-36.99	75.63
Stage 10	26.9	-24.93	60.32
Stage 10	26.7	-15.89	45.19
Stage 10	26.5	-9.83	30.3
Stage 10	26.3	-6.69	15.69
Stage 10	26.1	-6.43	1.31
Stage 10	25.9	-9	-12.88
Stage 10	25.7	-14.4	-26.96
Stage 10	25.5	-22.7	-41.5
Stage 10	25.3	-34.02	-56.63
Stage 10	25.1	-48.48	-72.26
Stage 10	25	-56.9	-84.29
Stage 10	24.8	-37.54	96.8
Stage 10	24.6	-21.47	80.38
Stage 10	24.4	-8.7	63.82
Stage 10	24.2	0.73	47.17
Stage 10	24	6.82	30.45
Stage 10	23.8	9.55	13.67
Stage 10	23.6	8.91	-3.21
Stage 10	23.4	4.87	-20.19
Stage 10	23.2	-2.59	-37.32
Stage 10	23	-13.51	-54.61
Stage 10	22.8	-27.93	-72.07
Stage 10	22.6	-45.87	-89.69
Stage 10	22.5	-56.16	-103
Stage 10	22.3	-40.93	76.18
Stage 10	22.1	-29.26	58.34
Stage 10	21.9	-21.16	40.51
Stage 10	21.7	-16.62	22.72
Stage 10	21.5	-15.62	4.99
Stage 10	21.3	-18.15	-12.67
Stage 10	21.1	-24.2	-30.25
Stage 10	20.9	-33.75	-47.74
Stage 10	20.7	-46.83	-65.41
Stage 10	20.5	-63.49	-83.27
Stage 10	20.3	-35.59	139.46
Stage 10	20.1	-11.27	121.62
Stage 10	19.9	9.52	103.95
Stage 10	19.7	26.83	86.54
Stage 10	19.5	40.72	69.45
Stage 10	19.3	51.26	52.7
Stage 10	19.1	58.08	34.12
Stage 10	18.9	61.63	17.74
Stage 10	18.7	62.34	3.55
Stage 10	18.5	60.64	-8.48
Stage 10	18.3	56.97	-18.38
Stage 10	18.1	51.73	-26.21
Stage 10	17.9	45.32	-32
Stage 10	17.7	38.18	-35.74
Stage 10	17.5	30.71	-37.33
Stage 10	17.3	23.34	-36.84
Stage 10	17.1	16.47	-34.33
Stage 10	16.9	10.45	-30.14
Stage 10	16.7	5.3	-25.71

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	16.5	1.01	-21.46
Stage 10	16.3	-2.5	-17.58
Stage 10	16.1	-5.32	-14.09
Stage 10	15.9	-7.52	-10.98
Stage 10	15.7	-9.17	-8.24
Stage 10	15.5	-10.34	-5.86
Stage 10	15.3	-11.1	-3.81
Stage 10	15.1	-11.52	-2.08
Stage 10	14.9	-11.64	-0.64
Stage 10	14.7	-11.53	0.54
Stage 10	14.5	-11.24	1.48
Stage 10	14.3	-10.79	2.23
Stage 10	14.1	-10.23	2.81
Stage 10	13.9	-9.58	3.24
Stage 10	13.7	-8.87	3.56
Stage 10	13.5	-8.12	3.77
Stage 10	13.3	-7.33	3.91
Stage 10	13.1	-6.55	3.94
Stage 10	12.9	-5.77	3.88
Stage 10	12.7	-5.02	3.75
Stage 10	12.5	-4.31	3.56
Stage 10	12.3	-3.65	3.33
Stage 10	12.1	-3.03	3.06
Stage 10	11.9	-2.48	2.78
Stage 10	11.7	-1.98	2.48
Stage 10	11.5	-1.55	2.17
Stage 10	11.3	-1.17	1.87
Stage 10	11.1	-0.86	1.58
Stage 10	10.9	-0.59	1.3
Stage 10	10.7	-0.39	1.04
Stage 10	10.5	-0.23	0.8
Stage 10	10.3	-0.11	0.57
Stage 10	10.1	-0.04	0.36
Stage 10	9.9	0	0.17
Stage 10	9.8	0	0.04

Design Assumption: SLE (Rara) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	30	0	0
Stage 10	29.8	0	0
Stage 10	29.6	0	0
Stage 10	29.5	0	0

Risultati Elementi strutturali - SLE (Rara)

Design Assumption: SLE (Rara) Sollecitazione Tir-A2

Stage	Forza (kN/m)
Stage 3	200
Stage 4	201.168
Stage 5	196.6147
Stage 6	196.3602
Stage 7	196.8991
Stage 8	196.1146
Stage 9	197.0077
Stage 10	196.9418

Design Assumption: SLE (Rara) Sollecitazione Tir-B2

Stage	Forza (kN/m)
Stage 5	200
Stage 6	204.2693
Stage 7	197.3688
Stage 8	196.9883
Stage 9	196.5153
Stage 10	196.2179

Design Assumption: SLE (Rara) Sollecitazione Tir-C2

Stage	Forza (kN/m)
Stage 7	200
Stage 8	209.4679
Stage 9	195.1171
Stage 10	195.495

Design Assumption: SLE (Rara) Sollecitazione Tir-D2

Stage	Forza (kN/m)
Stage 9	240
Stage 10	244.3572

Risultati A1+M1+R1

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 1

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	29.5	0	0
Stage 1	29.3	0	0
Stage 1	29.1	0	0
Stage 1	28.9	0	0
Stage 1	28.7	0	0
Stage 1	28.5	0	0
Stage 1	28.3	0	0
Stage 1	28.1	0	0
Stage 1	27.9	0	0
Stage 1	27.7	0	0
Stage 1	27.5	0	0
Stage 1	27.3	0	0
Stage 1	27.1	0	0
Stage 1	26.9	0	0
Stage 1	26.7	0	0
Stage 1	26.5	0	0
Stage 1	26.3	0	0
Stage 1	26.1	0	0
Stage 1	25.9	0	0
Stage 1	25.7	0	0
Stage 1	25.5	0	0
Stage 1	25.3	0	0
Stage 1	25.1	0	0
Stage 1	25	0	0
Stage 1	24.8	0	0
Stage 1	24.6	0	0
Stage 1	24.4	0	0
Stage 1	24.2	0	0
Stage 1	24	0	0
Stage 1	23.8	0	0
Stage 1	23.6	0	0
Stage 1	23.4	0	0
Stage 1	23.2	0	0
Stage 1	23	0	0
Stage 1	22.8	0	0
Stage 1	22.6	0	0
Stage 1	22.5	0	0
Stage 1	22.3	0	0
Stage 1	22.1	0	0
Stage 1	21.9	0	0
Stage 1	21.7	0	0
Stage 1	21.5	0	0
Stage 1	21.3	0	0
Stage 1	21.1	0	0
Stage 1	20.9	0	0
Stage 1	20.7	0	0
Stage 1	20.5	0	0
Stage 1	20.3	0	0
Stage 1	20.1	0	0
Stage 1	19.9	0	0
Stage 1	19.7	0	0
Stage 1	19.5	0	0
Stage 1	19.3	0	0
Stage 1	19.1	0	0
Stage 1	18.9	0	0
Stage 1	18.7	0	0
Stage 1	18.5	0	0
Stage 1	18.3	0	0
Stage 1	18.1	0	0
Stage 1	17.9	0	0
Stage 1	17.7	0	0
Stage 1	17.5	0	0
Stage 1	17.3	0	0
Stage 1	17.1	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	16.9	0	0
Stage 1	16.7	0	0
Stage 1	16.5	0	0
Stage 1	16.3	0	0
Stage 1	16.1	0	0
Stage 1	15.9	0	0
Stage 1	15.7	0	0
Stage 1	15.5	0	0
Stage 1	15.3	0	0
Stage 1	15.1	0	0
Stage 1	14.9	0	0
Stage 1	14.7	0	0
Stage 1	14.5	0	0
Stage 1	14.3	0	0
Stage 1	14.1	0	0
Stage 1	13.9	0	0
Stage 1	13.7	0	0
Stage 1	13.5	0	0
Stage 1	13.3	0	0
Stage 1	13.1	0	0
Stage 1	12.9	0	0
Stage 1	12.7	0	0
Stage 1	12.5	0	0
Stage 1	12.3	0	0
Stage 1	12.1	0	0
Stage 1	11.9	0	0
Stage 1	11.7	0	0
Stage 1	11.5	0	0
Stage 1	11.3	0	0
Stage 1	11.1	0	0
Stage 1	10.9	0	0
Stage 1	10.7	0	0
Stage 1	10.5	0	0
Stage 1	10.3	0	0
Stage 1	10.1	0	0
Stage 1	9.9	0	0
Stage 1	9.8	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	30	0	0
Stage 1	29.8	0	0
Stage 1	29.6	0	0
Stage 1	29.5	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 2

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	29.5	0	0
Stage 2	29.3	0	0
Stage 2	29.3	0	0
Stage 2	29.1	-0.05	-0.26
Stage 2	28.9	-0.21	-0.79
Stage 2	28.7	-0.53	-1.58
Stage 2	28.5	-1.06	-2.64
Stage 2	28.3	-1.85	-3.96
Stage 2	28.1	-2.96	-5.55
Stage 2	27.9	-4.44	-7.4
Stage 2	27.7	-6.34	-9.51
Stage 2	27.5	-8.72	-11.89
Stage 2	27.3	-11.62	-14.53
Stage 2	27.1	-15.11	-17.43
Stage 2	26.9	-19.23	-20.6
Stage 2	26.7	-23.41	-20.88
Stage 2	26.5	-26.43	-15.11
Stage 2	26.3	-28.25	-9.13
Stage 2	26.1	-28.98	-3.6
Stage 2	25.9	-28.67	1.55
Stage 2	25.7	-27.39	6.39
Stage 2	25.5	-25.4	9.95
Stage 2	25.3	-22.96	12.17
Stage 2	25.1	-20.29	13.36
Stage 2	25	-18.92	13.69
Stage 2	24.8	-16.17	13.76
Stage 2	24.6	-13.52	13.27
Stage 2	24.4	-11.04	12.4
Stage 2	24.2	-8.78	11.3
Stage 2	24	-6.77	10.05
Stage 2	23.8	-5.02	8.75
Stage 2	23.6	-3.53	7.46
Stage 2	23.4	-2.28	6.22
Stage 2	23.2	-1.27	5.07
Stage 2	23	-0.46	4.03
Stage 2	22.8	0.16	3.1
Stage 2	22.6	0.62	2.29
Stage 2	22.5	0.79	1.77
Stage 2	22.3	1.05	1.3
Stage 2	22.1	1.21	0.78
Stage 2	21.9	1.28	0.37
Stage 2	21.7	1.29	0.04
Stage 2	21.5	1.25	-0.21
Stage 2	21.3	1.17	-0.38
Stage 2	21.1	1.07	-0.5
Stage 2	20.9	0.96	-0.57
Stage 2	20.7	0.84	-0.61
Stage 2	20.5	0.72	-0.61
Stage 2	20.3	0.6	-0.59
Stage 2	20.1	0.49	-0.55
Stage 2	19.9	0.39	-0.5
Stage 2	19.7	0.3	-0.44
Stage 2	19.5	0.22	-0.38
Stage 2	19.3	0.16	-0.32
Stage 2	19.1	0.11	-0.27
Stage 2	18.9	0.06	-0.22
Stage 2	18.7	0.03	-0.18
Stage 2	18.5	0	-0.14
Stage 2	18.3	-0.02	-0.1
Stage 2	18.1	-0.03	-0.07
Stage 2	17.9	-0.04	-0.05
Stage 2	17.7	-0.05	-0.03
Stage 2	17.5	-0.05	-0.01
Stage 2	17.3	-0.05	0
Stage 2	17.1	-0.05	0.01
Stage 2	16.9	-0.05	0.02
Stage 2	16.7	-0.04	0.02

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	16.5	-0.04	0.02
Stage 2	16.3	-0.03	0.02
Stage 2	16.1	-0.03	0.02
Stage 2	15.9	-0.03	0.02
Stage 2	15.7	-0.02	0.02
Stage 2	15.5	-0.02	0.02
Stage 2	15.3	-0.01	0.02
Stage 2	15.1	-0.01	0.02
Stage 2	14.9	-0.01	0.01
Stage 2	14.7	-0.01	0.01
Stage 2	14.5	0	0.01
Stage 2	14.3	0	0.01
Stage 2	14.1	0	0.01
Stage 2	13.9	0	0.01
Stage 2	13.7	0	0
Stage 2	13.5	0	0
Stage 2	13.3	0	0
Stage 2	13.1	0	0
Stage 2	12.9	0	0
Stage 2	12.7	0	0
Stage 2	12.5	0	0
Stage 2	12.3	0	0
Stage 2	12.1	0	0
Stage 2	11.9	0	0
Stage 2	11.7	0	0
Stage 2	11.5	0	0
Stage 2	11.3	0	0
Stage 2	11.1	0	0
Stage 2	10.9	0	0
Stage 2	10.7	0	0
Stage 2	10.5	0	0
Stage 2	10.3	0	0
Stage 2	10.1	0	0
Stage 2	9.9	0	0
Stage 2	9.8	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	30	0	0
Stage 2	29.8	0	0
Stage 2	29.6	0	0
Stage 2	29.5	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 3

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	29.5	0	0
Stage 3	29.3	0	0
Stage 3	29.3	0	0
Stage 3	29.1	-1.26	-6.31
Stage 3	28.9	-4.63	-16.85
Stage 3	28.7	-10.36	-28.62
Stage 3	28.5	-18.68	-41.6
Stage 3	28.3	-29.83	-55.74
Stage 3	28.1	-44.02	-70.96
Stage 3	27.9	-61.44	-87.12
Stage 3	27.7	-82.25	-104.04
Stage 3	27.5	-106.54	-121.45
Stage 3	27.3	-83.13	117.06
Stage 3	27.1	-63.17	99.8
Stage 3	26.9	-46.54	83.16
Stage 3	26.7	-33.04	67.48
Stage 3	26.5	-22.44	53.02
Stage 3	26.3	-14.19	41.23
Stage 3	26.1	-7.9	31.47
Stage 3	25.9	-3.16	23.69
Stage 3	25.7	0.4	17.79
Stage 3	25.5	2.99	12.95
Stage 3	25.3	4.78	8.93
Stage 3	25.1	5.91	5.66
Stage 3	25	6.28	3.72
Stage 3	24.8	6.68	1.97
Stage 3	24.6	6.7	0.12
Stage 3	24.4	6.44	-1.31
Stage 3	24.2	5.97	-2.36
Stage 3	24	5.37	-3
Stage 3	23.8	4.7	-3.32
Stage 3	23.6	4.03	-3.39
Stage 3	23.4	3.37	-3.28
Stage 3	23.2	2.76	-3.05
Stage 3	23	2.21	-2.74
Stage 3	22.8	1.73	-2.41
Stage 3	22.6	1.32	-2.06
Stage 3	22.5	1.14	-1.81
Stage 3	22.3	0.82	-1.57
Stage 3	22.1	0.57	-1.27
Stage 3	21.9	0.37	-1.01
Stage 3	21.7	0.21	-0.78
Stage 3	21.5	0.09	-0.58
Stage 3	21.3	0.01	-0.42
Stage 3	21.1	-0.05	-0.3
Stage 3	20.9	-0.09	-0.19
Stage 3	20.7	-0.11	-0.12
Stage 3	20.5	-0.13	-0.06
Stage 3	20.3	-0.13	-0.01
Stage 3	20.1	-0.12	0.02
Stage 3	19.9	-0.12	0.04
Stage 3	19.7	-0.11	0.05
Stage 3	19.5	-0.09	0.06
Stage 3	19.3	-0.08	0.06
Stage 3	19.1	-0.07	0.06
Stage 3	18.9	-0.06	0.06
Stage 3	18.7	-0.05	0.05
Stage 3	18.5	-0.04	0.05
Stage 3	18.3	-0.03	0.04
Stage 3	18.1	-0.02	0.03
Stage 3	17.9	-0.02	0.03
Stage 3	17.7	-0.01	0.02
Stage 3	17.5	-0.01	0.02
Stage 3	17.3	-0.01	0.02
Stage 3	17.1	0	0.01
Stage 3	16.9	0	0.01
Stage 3	16.7	0	0.01

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	16.5	0	0
Stage 3	16.3	0	0
Stage 3	16.1	0	0
Stage 3	15.9	0	0
Stage 3	15.7	0	0
Stage 3	15.5	0	0
Stage 3	15.3	0	0
Stage 3	15.1	0	0
Stage 3	14.9	0	0
Stage 3	14.7	0	0
Stage 3	14.5	0	0
Stage 3	14.3	0	0
Stage 3	14.1	0	0
Stage 3	13.9	0	0
Stage 3	13.7	0	0
Stage 3	13.5	0	0
Stage 3	13.3	0	0
Stage 3	13.1	0	0
Stage 3	12.9	0	0
Stage 3	12.7	0	0
Stage 3	12.5	0	0
Stage 3	12.3	0	0
Stage 3	12.1	0	0
Stage 3	11.9	0	0
Stage 3	11.7	0	0
Stage 3	11.5	0	0
Stage 3	11.3	0	0
Stage 3	11.1	0	0
Stage 3	10.9	0	0
Stage 3	10.7	0	0
Stage 3	10.5	0	0
Stage 3	10.3	0	0
Stage 3	10.1	0	0
Stage 3	9.9	0	0
Stage 3	9.8	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	30	0	0
Stage 3	29.8	0	0
Stage 3	29.6	0	0
Stage 3	29.5	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 4

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	29.5	0	0
Stage 4	29.3	0	0
Stage 4	29.3	0	0
Stage 4	29.1	-1.26	-6.31
Stage 4	28.9	-4.78	-17.57
Stage 4	28.7	-10.75	-29.86
Stage 4	28.5	-19.38	-43.17
Stage 4	28.3	-30.88	-57.46
Stage 4	28.1	-45.4	-72.6
Stage 4	27.9	-63.07	-88.37
Stage 4	27.7	-83.99	-104.59
Stage 4	27.5	-108.18	-120.96
Stage 4	27.3	-84.1	120.4
Stage 4	27.1	-63.13	104.84
Stage 4	26.9	-45.08	90.24
Stage 4	26.7	-29.72	76.81
Stage 4	26.5	-16.78	64.69
Stage 4	26.3	-6	53.91
Stage 4	26.1	2.89	44.44
Stage 4	25.9	10.12	36.18
Stage 4	25.7	15.92	28.99
Stage 4	25.5	20.33	22.05
Stage 4	25.3	23.35	15.09
Stage 4	25.1	24.95	8.03
Stage 4	25	25.21	2.6
Stage 4	24.8	24.63	-2.92
Stage 4	24.6	22.5	-10.62
Stage 4	24.4	18.75	-18.75
Stage 4	24.2	13.91	-24.22
Stage 4	24	9.14	-23.85
Stage 4	23.8	5.14	-19.99
Stage 4	23.6	1.87	-16.37
Stage 4	23.4	-0.74	-13.04
Stage 4	23.2	-2.75	-10.04
Stage 4	23	-4.23	-7.4
Stage 4	22.8	-5.25	-5.12
Stage 4	22.6	-5.89	-3.18
Stage 4	22.5	-6.09	-1.99
Stage 4	22.3	-6.27	-0.91
Stage 4	22.1	-6.22	0.24
Stage 4	21.9	-5.99	1.12
Stage 4	21.7	-5.64	1.77
Stage 4	21.5	-5.2	2.22
Stage 4	21.3	-4.7	2.49
Stage 4	21.1	-4.17	2.63
Stage 4	20.9	-3.65	2.63
Stage 4	20.7	-3.14	2.55
Stage 4	20.5	-2.66	2.41
Stage 4	20.3	-2.21	2.24
Stage 4	20.1	-1.8	2.04
Stage 4	19.9	-1.43	1.83
Stage 4	19.7	-1.11	1.6
Stage 4	19.5	-0.84	1.38
Stage 4	19.3	-0.61	1.16
Stage 4	19.1	-0.41	0.99
Stage 4	18.9	-0.24	0.84
Stage 4	18.7	-0.1	0.69
Stage 4	18.5	0.01	0.56
Stage 4	18.3	0.1	0.45
Stage 4	18.1	0.17	0.34
Stage 4	17.9	0.22	0.25
Stage 4	17.7	0.25	0.17
Stage 4	17.5	0.27	0.11
Stage 4	17.3	0.28	0.05
Stage 4	17.1	0.29	0.01
Stage 4	16.9	0.28	-0.03
Stage 4	16.7	0.27	-0.06

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	16.5	0.25	-0.08
Stage 4	16.3	0.24	-0.09
Stage 4	16.1	0.22	-0.1
Stage 4	15.9	0.19	-0.11
Stage 4	15.7	0.17	-0.11
Stage 4	15.5	0.15	-0.11
Stage 4	15.3	0.13	-0.1
Stage 4	15.1	0.11	-0.1
Stage 4	14.9	0.09	-0.09
Stage 4	14.7	0.07	-0.08
Stage 4	14.5	0.06	-0.08
Stage 4	14.3	0.05	-0.07
Stage 4	14.1	0.03	-0.06
Stage 4	13.9	0.02	-0.05
Stage 4	13.7	0.02	-0.04
Stage 4	13.5	0.01	-0.04
Stage 4	13.3	0	-0.03
Stage 4	13.1	0	-0.02
Stage 4	12.9	-0.01	-0.02
Stage 4	12.7	-0.01	-0.01
Stage 4	12.5	-0.01	-0.01
Stage 4	12.3	-0.01	0
Stage 4	12.1	-0.01	0
Stage 4	11.9	-0.01	0
Stage 4	11.7	-0.01	0
Stage 4	11.5	-0.01	0.01
Stage 4	11.3	-0.01	0.01
Stage 4	11.1	-0.01	0.01
Stage 4	10.9	0	0.01
Stage 4	10.7	0	0.01
Stage 4	10.5	0	0.01
Stage 4	10.3	0	0
Stage 4	10.1	0	0
Stage 4	9.9	0	0
Stage 4	9.8	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	30	0	0
Stage 4	29.8	0	0
Stage 4	29.6	0	0
Stage 4	29.5	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 5

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	29.5	0	0
Stage 5	29.3	0	0
Stage 5	29.3	0	0
Stage 5	29.1	-0.53	-2.64
Stage 5	28.9	-2.76	-11.15
Stage 5	28.7	-7.08	-21.63
Stage 5	28.5	-13.9	-34.08
Stage 5	28.3	-23.58	-48.42
Stage 5	28.1	-36.44	-64.26
Stage 5	27.9	-52.73	-81.48
Stage 5	27.7	-72.71	-99.9
Stage 5	27.5	-96.57	-119.28
Stage 5	27.3	-74.08	112.43
Stage 5	27.1	-55.65	92.19
Stage 5	26.9	-41.24	72.03
Stage 5	26.7	-30.81	52.17
Stage 5	26.5	-24.27	32.7
Stage 5	26.3	-21.53	13.69
Stage 5	26.1	-22.5	-4.88
Stage 5	25.9	-27.12	-23.06
Stage 5	25.7	-35.3	-40.91
Stage 5	25.5	-47.13	-59.16
Stage 5	25.3	-62.71	-77.91
Stage 5	25.1	-82.13	-97.07
Stage 5	25	-93.29	-111.65
Stage 5	24.8	-67.33	129.78
Stage 5	24.6	-45.28	110.27
Stage 5	24.4	-27.1	90.9
Stage 5	24.2	-12.72	71.88
Stage 5	24	-1.74	54.92
Stage 5	23.8	6.87	43.04
Stage 5	23.6	13.39	32.62
Stage 5	23.4	18.12	23.62
Stage 5	23.2	21.31	15.96
Stage 5	23	23.22	9.56
Stage 5	22.8	24.08	4.31
Stage 5	22.6	24.1	0.09
Stage 5	22.5	23.86	-2.38
Stage 5	22.3	22.96	-4.54
Stage 5	22.1	21.62	-6.68
Stage 5	21.9	19.99	-8.17
Stage 5	21.7	18.16	-9.13
Stage 5	21.5	16.23	-9.64
Stage 5	21.3	14.28	-9.78
Stage 5	21.1	12.35	-9.62
Stage 5	20.9	10.51	-9.23
Stage 5	20.7	8.78	-8.65
Stage 5	20.5	7.18	-7.96
Stage 5	20.3	5.75	-7.18
Stage 5	20.1	4.48	-6.36
Stage 5	19.9	3.37	-5.53
Stage 5	19.7	2.43	-4.72
Stage 5	19.5	1.64	-3.94
Stage 5	19.3	1	-3.2
Stage 5	19.1	0.47	-2.64
Stage 5	18.9	0.05	-2.13
Stage 5	18.7	-0.29	-1.67
Stage 5	18.5	-0.54	-1.27
Stage 5	18.3	-0.72	-0.92
Stage 5	18.1	-0.85	-0.62
Stage 5	17.9	-0.92	-0.37
Stage 5	17.7	-0.95	-0.16
Stage 5	17.5	-0.95	0
Stage 5	17.3	-0.93	0.13
Stage 5	17.1	-0.88	0.22
Stage 5	16.9	-0.82	0.29
Stage 5	16.7	-0.76	0.34

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	16.5	-0.68	0.36
Stage 5	16.3	-0.61	0.37
Stage 5	16.1	-0.53	0.37
Stage 5	15.9	-0.46	0.36
Stage 5	15.7	-0.39	0.34
Stage 5	15.5	-0.33	0.32
Stage 5	15.3	-0.27	0.29
Stage 5	15.1	-0.22	0.26
Stage 5	14.9	-0.17	0.24
Stage 5	14.7	-0.13	0.21
Stage 5	14.5	-0.09	0.18
Stage 5	14.3	-0.06	0.16
Stage 5	14.1	-0.04	0.13
Stage 5	13.9	-0.01	0.11
Stage 5	13.7	0	0.09
Stage 5	13.5	0.02	0.07
Stage 5	13.3	0.03	0.05
Stage 5	13.1	0.04	0.04
Stage 5	12.9	0.04	0.02
Stage 5	12.7	0.04	0.01
Stage 5	12.5	0.04	0
Stage 5	12.3	0.04	-0.01
Stage 5	12.1	0.04	-0.01
Stage 5	11.9	0.04	-0.02
Stage 5	11.7	0.03	-0.02
Stage 5	11.5	0.03	-0.02
Stage 5	11.3	0.02	-0.02
Stage 5	11.1	0.02	-0.02
Stage 5	10.9	0.01	-0.02
Stage 5	10.7	0.01	-0.02
Stage 5	10.5	0.01	-0.02
Stage 5	10.3	0	-0.01
Stage 5	10.1	0	-0.01
Stage 5	9.9	0	-0.01
Stage 5	9.8	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	30	0	0
Stage 5	29.8	0	0
Stage 5	29.6	0	0
Stage 5	29.5	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 6

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	29.5	0	0
Stage 6	29.3	0	0
Stage 6	29.3	0	0
Stage 6	29.1	-0.7	-3.51
Stage 6	28.9	-3.27	-12.83
Stage 6	28.7	-8.08	-24.07
Stage 6	28.5	-15.52	-37.2
Stage 6	28.3	-25.91	-51.93
Stage 6	28.1	-39.53	-68.12
Stage 6	27.9	-56.66	-85.63
Stage 6	27.7	-77.52	-104.3
Stage 6	27.5	-102.29	-123.87
Stage 6	27.3	-80.81	107.39
Stage 6	27.1	-63.39	87.1
Stage 6	26.9	-49.99	67
Stage 6	26.7	-40.53	47.35
Stage 6	26.5	-34.87	28.27
Stage 6	26.3	-32.9	9.85
Stage 6	26.1	-34.49	-7.92
Stage 6	25.9	-39.49	-25.03
Stage 6	25.7	-47.8	-41.53
Stage 6	25.5	-59.42	-58.11
Stage 6	25.3	-74.39	-74.85
Stage 6	25.1	-92.71	-91.63
Stage 6	25	-103.12	-104.11
Stage 6	24.8	-74.12	145.03
Stage 6	24.6	-48.33	128.96
Stage 6	24.4	-25.63	113.49
Stage 6	24.2	-5.88	98.72
Stage 6	24	11.05	84.68
Stage 6	23.8	25.33	71.39
Stage 6	23.6	37.09	58.79
Stage 6	23.4	46.45	46.82
Stage 6	23.2	53.53	35.39
Stage 6	23	58.4	24.36
Stage 6	22.8	61.12	13.61
Stage 6	22.6	61.72	3
Stage 6	22.5	61.23	-4.98
Stage 6	22.3	58.63	-13
Stage 6	22.1	53.84	-23.94
Stage 6	21.9	46.78	-35.27
Stage 6	21.7	37.99	-43.96
Stage 6	21.5	28.6	-46.97
Stage 6	21.3	19.72	-44.36
Stage 6	21.1	12.18	-37.74
Stage 6	20.9	5.86	-31.57
Stage 6	20.7	0.69	-25.88
Stage 6	20.5	-3.45	-20.7
Stage 6	20.3	-6.66	-16.05
Stage 6	20.1	-9.05	-11.94
Stage 6	19.9	-10.72	-8.35
Stage 6	19.7	-11.78	-5.27
Stage 6	19.5	-12.31	-2.67
Stage 6	19.3	-12.41	-0.51
Stage 6	19.1	-12.22	0.96
Stage 6	18.9	-11.8	2.12
Stage 6	18.7	-11.2	3
Stage 6	18.5	-10.47	3.65
Stage 6	18.3	-9.65	4.09
Stage 6	18.1	-8.78	4.35
Stage 6	17.9	-7.89	4.44
Stage 6	17.7	-7.01	4.4
Stage 6	17.5	-6.16	4.26
Stage 6	17.3	-5.35	4.07
Stage 6	17.1	-4.58	3.84
Stage 6	16.9	-3.86	3.57
Stage 6	16.7	-3.21	3.28

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	16.5	-2.61	2.99
Stage 6	16.3	-2.07	2.69
Stage 6	16.1	-1.59	2.39
Stage 6	15.9	-1.17	2.1
Stage 6	15.7	-0.81	1.83
Stage 6	15.5	-0.49	1.57
Stage 6	15.3	-0.23	1.32
Stage 6	15.1	-0.01	1.1
Stage 6	14.9	0.17	0.9
Stage 6	14.7	0.31	0.71
Stage 6	14.5	0.42	0.55
Stage 6	14.3	0.5	0.41
Stage 6	14.1	0.56	0.28
Stage 6	13.9	0.59	0.18
Stage 6	13.7	0.61	0.09
Stage 6	13.5	0.61	0.01
Stage 6	13.3	0.6	-0.06
Stage 6	13.1	0.58	-0.13
Stage 6	12.9	0.54	-0.17
Stage 6	12.7	0.5	-0.21
Stage 6	12.5	0.45	-0.23
Stage 6	12.3	0.4	-0.24
Stage 6	12.1	0.35	-0.25
Stage 6	11.9	0.3	-0.25
Stage 6	11.7	0.26	-0.24
Stage 6	11.5	0.21	-0.23
Stage 6	11.3	0.17	-0.21
Stage 6	11.1	0.13	-0.2
Stage 6	10.9	0.09	-0.17
Stage 6	10.7	0.06	-0.15
Stage 6	10.5	0.04	-0.12
Stage 6	10.3	0.02	-0.09
Stage 6	10.1	0.01	-0.06
Stage 6	9.9	0	-0.03
Stage 6	9.8	0	-0.01

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	30	0	0
Stage 6	29.8	0	0
Stage 6	29.6	0	0
Stage 6	29.5	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 7

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	29.5	0	0
Stage 7	29.3	0	0
Stage 7	29.3	0	0
Stage 7	29.1	-0.45	-2.23
Stage 7	28.9	-2.51	-10.34
Stage 7	28.7	-6.6	-20.44
Stage 7	28.5	-13.1	-32.52
Stage 7	28.3	-22.36	-46.27
Stage 7	28.1	-34.67	-61.57
Stage 7	27.9	-50.33	-78.29
Stage 7	27.7	-69.59	-96.28
Stage 7	27.5	-92.64	-115.28
Stage 7	27.3	-69.22	117.09
Stage 7	27.1	-49.81	97.05
Stage 7	26.9	-34.41	77.01
Stage 7	26.7	-22.98	57.18
Stage 7	26.5	-15.44	37.68
Stage 7	26.3	-11.73	18.56
Stage 7	26.1	-11.77	-0.2
Stage 7	25.9	-15.5	-18.66
Stage 7	25.7	-22.88	-36.91
Stage 7	25.5	-34.02	-55.69
Stage 7	25.3	-49.05	-75.13
Stage 7	25.1	-68.08	-95.15
Stage 7	25	-79.13	-110.51
Stage 7	24.8	-53.79	126.67
Stage 7	24.6	-32.64	105.78
Stage 7	24.4	-15.68	84.79
Stage 7	24.2	-2.93	63.75
Stage 7	24	5.61	42.71
Stage 7	23.8	9.95	21.67
Stage 7	23.6	10.07	0.61
Stage 7	23.4	5.97	-20.51
Stage 7	23.2	-2.37	-41.71
Stage 7	23	-14.98	-63.02
Stage 7	22.8	-31.87	-84.47
Stage 7	22.6	-53.08	-106.05
Stage 7	22.5	-65.31	-122.31
Stage 7	22.3	-41.82	117.45
Stage 7	22.1	-22.67	95.73
Stage 7	21.9	-7.87	74.04
Stage 7	21.7	2.64	52.53
Stage 7	21.5	9.46	34.1
Stage 7	21.3	13.97	22.55
Stage 7	21.1	17.23	16.3
Stage 7	20.9	19.42	10.94
Stage 7	20.7	20.7	6.42
Stage 7	20.5	21.24	2.67
Stage 7	20.3	21.16	-0.39
Stage 7	20.1	20.59	-2.82
Stage 7	19.9	19.65	-4.71
Stage 7	19.7	18.43	-6.1
Stage 7	19.5	17.01	-7.09
Stage 7	19.3	15.47	-7.72
Stage 7	19.1	13.89	-7.91
Stage 7	18.9	12.31	-7.88
Stage 7	18.7	10.78	-7.66
Stage 7	18.5	9.32	-7.3
Stage 7	18.3	7.95	-6.85
Stage 7	18.1	6.68	-6.35
Stage 7	17.9	5.51	-5.83
Stage 7	17.7	4.45	-5.31
Stage 7	17.5	3.5	-4.77
Stage 7	17.3	2.65	-4.23
Stage 7	17.1	1.91	-3.7
Stage 7	16.9	1.27	-3.19
Stage 7	16.7	0.73	-2.7

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	16.5	0.28	-2.25
Stage 7	16.3	-0.08	-1.83
Stage 7	16.1	-0.37	-1.46
Stage 7	15.9	-0.6	-1.12
Stage 7	15.7	-0.76	-0.82
Stage 7	15.5	-0.88	-0.57
Stage 7	15.3	-0.95	-0.35
Stage 7	15.1	-0.98	-0.16
Stage 7	14.9	-0.98	-0.01
Stage 7	14.7	-0.96	0.11
Stage 7	14.5	-0.92	0.21
Stage 7	14.3	-0.86	0.28
Stage 7	14.1	-0.79	0.33
Stage 7	13.9	-0.72	0.37
Stage 7	13.7	-0.64	0.38
Stage 7	13.5	-0.57	0.39
Stage 7	13.3	-0.49	0.38
Stage 7	13.1	-0.42	0.36
Stage 7	12.9	-0.35	0.33
Stage 7	12.7	-0.29	0.3
Stage 7	12.5	-0.24	0.27
Stage 7	12.3	-0.19	0.23
Stage 7	12.1	-0.15	0.2
Stage 7	11.9	-0.12	0.17
Stage 7	11.7	-0.09	0.15
Stage 7	11.5	-0.06	0.12
Stage 7	11.3	-0.04	0.1
Stage 7	11.1	-0.03	0.08
Stage 7	10.9	-0.02	0.06
Stage 7	10.7	-0.01	0.04
Stage 7	10.5	0	0.03
Stage 7	10.3	0	0.01
Stage 7	10.1	0	0.01
Stage 7	9.9	0	0
Stage 7	9.8	0	0

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	30	0	0
Stage 7	29.8	0	0
Stage 7	29.6	0	0
Stage 7	29.5	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 8

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	29.5	0	0
Stage 8	29.3	0	0
Stage 8	29.3	0	0
Stage 8	29.1	-0.45	-2.26
Stage 8	28.9	-2.54	-10.45
Stage 8	28.7	-6.68	-20.69
Stage 8	28.5	-13.27	-32.96
Stage 8	28.3	-22.66	-46.95
Stage 8	28.1	-35.17	-62.53
Stage 8	27.9	-51.09	-79.59
Stage 8	27.7	-70.68	-97.97
Stage 8	27.5	-94.16	-117.41
Stage 8	27.3	-71.46	113.5
Stage 8	27.1	-52.85	93.04
Stage 8	26.9	-38.33	72.6
Stage 8	26.7	-27.86	52.39
Stage 8	26.5	-21.35	32.51
Stage 8	26.3	-18.76	12.99
Stage 8	26.1	-19.99	-6.16
Stage 8	25.9	-24.99	-25.02
Stage 8	25.7	-33.72	-43.65
Stage 8	25.5	-46.28	-62.77
Stage 8	25.3	-62.78	-82.52
Stage 8	25.1	-83.34	-102.78
Stage 8	25	-95.16	-118.28
Stage 8	24.8	-71.5	118.32
Stage 8	24.6	-52.02	97.4
Stage 8	24.4	-36.71	76.55
Stage 8	24.2	-25.53	55.9
Stage 8	24	-18.42	35.53
Stage 8	23.8	-15.33	15.47
Stage 8	23.6	-16.18	-4.25
Stage 8	23.4	-20.9	-23.6
Stage 8	23.2	-29.41	-42.57
Stage 8	23	-41.64	-61.13
Stage 8	22.8	-57.49	-79.25
Stage 8	22.6	-76.86	-96.88
Stage 8	22.5	-87.83	-109.67
Stage 8	22.3	-58.64	145.95
Stage 8	22.1	-32.65	129.94
Stage 8	21.9	-9.7	114.74
Stage 8	21.7	10.38	100.39
Stage 8	21.5	27.75	86.89
Stage 8	21.3	42.59	74.2
Stage 8	21.1	55.05	62.26
Stage 8	20.9	65.24	50.98
Stage 8	20.7	73.17	39.63
Stage 8	20.5	78.77	28
Stage 8	20.3	81.99	16.11
Stage 8	20.1	82.78	3.96
Stage 8	19.9	81.09	-8.45
Stage 8	19.7	77.5	-17.97
Stage 8	19.5	73.21	-21.45
Stage 8	19.3	69.44	-18.87
Stage 8	19.1	63.55	-29.44
Stage 8	18.9	55.99	-37.78
Stage 8	18.7	47.21	-43.89
Stage 8	18.5	37.66	-47.78
Stage 8	18.3	27.77	-49.43
Stage 8	18.1	18	-48.86
Stage 8	17.9	8.79	-46.05
Stage 8	17.7	0.59	-41.01
Stage 8	17.5	-6.42	-35.03
Stage 8	17.3	-12.25	-29.14
Stage 8	17.1	-16.92	-23.36
Stage 8	16.9	-20.46	-17.68
Stage 8	16.7	-22.95	-12.46

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	16.5	-24.54	-7.96
Stage 8	16.3	-25.37	-4.14
Stage 8	16.1	-25.56	-0.95
Stage 8	15.9	-25.22	1.67
Stage 8	15.7	-24.47	3.77
Stage 8	15.5	-23.38	5.41
Stage 8	15.3	-22.06	6.64
Stage 8	15.1	-20.56	7.51
Stage 8	14.9	-18.94	8.07
Stage 8	14.7	-17.27	8.37
Stage 8	14.5	-15.58	8.44
Stage 8	14.3	-13.91	8.34
Stage 8	14.1	-12.29	8.11
Stage 8	13.9	-10.73	7.78
Stage 8	13.7	-9.26	7.38
Stage 8	13.5	-7.87	6.93
Stage 8	13.3	-6.61	6.33
Stage 8	13.1	-5.47	5.7
Stage 8	12.9	-4.45	5.07
Stage 8	12.7	-3.56	4.45
Stage 8	12.5	-2.79	3.85
Stage 8	12.3	-2.14	3.28
Stage 8	12.1	-1.59	2.75
Stage 8	11.9	-1.14	2.25
Stage 8	11.7	-0.78	1.8
Stage 8	11.5	-0.5	1.4
Stage 8	11.3	-0.29	1.04
Stage 8	11.1	-0.14	0.73
Stage 8	10.9	-0.05	0.47
Stage 8	10.7	0	0.26
Stage 8	10.5	0.03	0.11
Stage 8	10.3	0.03	0
Stage 8	10.1	0.01	-0.06
Stage 8	9.9	0	-0.06
Stage 8	9.8	0	-0.02

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	30	0	0
Stage 8	29.8	0	0
Stage 8	29.6	0	0
Stage 8	29.5	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 9

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	29.5	0	0
Stage 9	29.3	0	0
Stage 9	29.3	0	0
Stage 9	29.1	-0.42	-2.09
Stage 9	28.9	-2.43	-10.07
Stage 9	28.7	-6.44	-20.05
Stage 9	28.5	-12.84	-32.01
Stage 9	28.3	-21.97	-45.65
Stage 9	28.1	-34.14	-60.84
Stage 9	27.9	-49.64	-77.47
Stage 9	27.7	-68.71	-95.37
Stage 9	27.5	-91.57	-114.29
Stage 9	27.3	-67.91	118.3
Stage 9	27.1	-48.22	98.42
Stage 9	26.9	-32.51	78.58
Stage 9	26.7	-20.71	58.98
Stage 9	26.5	-12.77	39.71
Stage 9	26.3	-8.61	20.8
Stage 9	26.1	-8.17	2.21
Stage 9	25.9	-11.4	-16.13
Stage 9	25.7	-18.26	-34.31
Stage 9	25.5	-28.88	-53.09
Stage 9	25.3	-43.4	-72.61
Stage 9	25.1	-61.96	-92.83
Stage 9	25	-72.8	-108.39
Stage 9	24.8	-47.31	127.48
Stage 9	24.6	-26.06	106.23
Stage 9	24.4	-9.1	84.8
Stage 9	24.2	3.55	63.26
Stage 9	24	11.88	41.62
Stage 9	23.8	15.85	19.88
Stage 9	23.6	15.46	-1.98
Stage 9	23.4	10.65	-24
Stage 9	23.2	1.41	-46.23
Stage 9	23	-12.33	-68.69
Stage 9	22.8	-30.61	-91.42
Stage 9	22.6	-53.49	-114.4
Stage 9	22.5	-66.68	-131.82
Stage 9	22.3	-46.58	100.49
Stage 9	22.1	-31.17	77.03
Stage 9	21.9	-20.47	53.48
Stage 9	21.7	-14.5	29.88
Stage 9	21.5	-13.25	6.22
Stage 9	21.3	-16.75	-17.47
Stage 9	21.1	-24.99	-41.21
Stage 9	20.9	-37.99	-64.99
Stage 9	20.7	-55.83	-89.18
Stage 9	20.5	-78.58	-113.79
Stage 9	20.3	-44.87	168.58
Stage 9	20.1	-16.15	143.58
Stage 9	19.9	7.57	118.62
Stage 9	19.7	26.35	93.91
Stage 9	19.5	40.67	71.57
Stage 9	19.3	51.93	56.3
Stage 9	19.1	58.75	34.13
Stage 9	18.9	61.77	15.08
Stage 9	18.7	61.6	-0.84
Stage 9	18.5	58.87	-13.64
Stage 9	18.3	54.2	-23.35
Stage 9	18.1	48.21	-29.99
Stage 9	17.9	41.48	-33.63
Stage 9	17.7	34.63	-34.22
Stage 9	17.5	28.05	-32.92
Stage 9	17.3	21.88	-30.87
Stage 9	17.1	16.24	-28.16
Stage 9	16.9	11.27	-24.86
Stage 9	16.7	6.99	-21.41

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	16.5	3.35	-18.17
Stage 9	16.3	0.32	-15.15
Stage 9	16.1	-2.15	-12.38
Stage 9	15.9	-4.13	-9.87
Stage 9	15.7	-5.65	-7.64
Stage 9	15.5	-6.79	-5.68
Stage 9	15.3	-7.59	-3.99
Stage 9	15.1	-8.1	-2.55
Stage 9	14.9	-8.37	-1.34
Stage 9	14.7	-8.43	-0.34
Stage 9	14.5	-8.34	0.46
Stage 9	14.3	-8.12	1.1
Stage 9	14.1	-7.8	1.62
Stage 9	13.9	-7.39	2.03
Stage 9	13.7	-6.92	2.35
Stage 9	13.5	-6.41	2.58
Stage 9	13.3	-5.85	2.77
Stage 9	13.1	-5.28	2.86
Stage 9	12.9	-4.7	2.88
Stage 9	12.7	-4.14	2.84
Stage 9	12.5	-3.59	2.75
Stage 9	12.3	-3.06	2.62
Stage 9	12.1	-2.57	2.45
Stage 9	11.9	-2.12	2.26
Stage 9	11.7	-1.71	2.05
Stage 9	11.5	-1.34	1.83
Stage 9	11.3	-1.02	1.6
Stage 9	11.1	-0.75	1.37
Stage 9	10.9	-0.52	1.14
Stage 9	10.7	-0.34	0.91
Stage 9	10.5	-0.2	0.7
Stage 9	10.3	-0.1	0.5
Stage 9	10.1	-0.03	0.32
Stage 9	9.9	0	0.16
Stage 9	9.8	0	0.04

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	30	0	0
Stage 9	29.8	0	0
Stage 9	29.6	0	0
Stage 9	29.5	0	0

Tabella Risultati Paratia A1+M1+R1 - Left Wall - Stage: Stage 10

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	29.5	0	0
Stage 10	29.3	0	0
Stage 10	29.3	0	0
Stage 10	29.1	-0.41	-2.05
Stage 10	28.9	-2.41	-10
Stage 10	28.7	-6.4	-19.95
Stage 10	28.5	-12.78	-31.89
Stage 10	28.3	-21.88	-45.53
Stage 10	28.1	-34.03	-60.72
Stage 10	27.9	-49.5	-77.36
Stage 10	27.7	-68.56	-95.27
Stage 10	27.5	-91.4	-114.23
Stage 10	27.3	-67.75	118.25
Stage 10	27.1	-48.09	98.32
Stage 10	26.9	-32.4	78.42
Stage 10	26.7	-20.66	58.75
Stage 10	26.5	-12.78	39.4
Stage 10	26.3	-8.7	20.39
Stage 10	26.1	-8.36	1.7
Stage 10	25.9	-11.71	-16.75
Stage 10	25.7	-18.71	-35.04
Stage 10	25.5	-29.51	-53.95
Stage 10	25.3	-44.23	-73.62
Stage 10	25.1	-63.02	-93.94
Stage 10	25	-73.97	-109.58
Stage 10	24.8	-48.81	125.84
Stage 10	24.6	-27.91	104.49
Stage 10	24.4	-11.32	82.96
Stage 10	24.2	0.95	61.32
Stage 10	24	8.87	39.59
Stage 10	23.8	12.42	17.77
Stage 10	23.6	11.59	-4.17
Stage 10	23.4	6.34	-26.25
Stage 10	23.2	-3.37	-48.52
Stage 10	23	-17.57	-70.99
Stage 10	22.8	-36.3	-93.69
Stage 10	22.6	-59.62	-116.6
Stage 10	22.5	-73.01	-133.9
Stage 10	22.3	-53.21	99.03
Stage 10	22.1	-38.04	75.84
Stage 10	21.9	-27.51	52.66
Stage 10	21.7	-21.6	29.54
Stage 10	21.5	-20.3	6.48
Stage 10	21.3	-23.6	-16.48
Stage 10	21.1	-31.47	-39.33
Stage 10	20.9	-43.88	-62.06
Stage 10	20.7	-60.88	-85.04
Stage 10	20.5	-82.53	-108.24
Stage 10	20.3	-46.27	181.3
Stage 10	20.1	-14.65	158.1
Stage 10	19.9	12.37	135.13
Stage 10	19.7	34.87	112.5
Stage 10	19.5	52.93	90.28
Stage 10	19.3	66.63	68.51
Stage 10	19.1	75.5	44.36
Stage 10	18.9	80.12	23.07
Stage 10	18.7	81.04	4.62
Stage 10	18.5	78.84	-11.02
Stage 10	18.3	74.06	-23.9
Stage 10	18.1	67.24	-34.07
Stage 10	17.9	58.92	-41.61
Stage 10	17.7	49.63	-46.46
Stage 10	17.5	39.92	-48.53
Stage 10	17.3	30.34	-47.9
Stage 10	17.1	21.42	-44.63
Stage 10	16.9	13.58	-39.18
Stage 10	16.7	6.89	-33.43

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	16.5	1.32	-27.89
Stage 10	16.3	-3.25	-22.85
Stage 10	16.1	-6.92	-18.32
Stage 10	15.9	-9.77	-14.27
Stage 10	15.7	-11.92	-10.71
Stage 10	15.5	-13.44	-7.62
Stage 10	15.3	-14.43	-4.96
Stage 10	15.1	-14.97	-2.7
Stage 10	14.9	-15.14	-0.83
Stage 10	14.7	-14.99	0.71
Stage 10	14.5	-14.61	1.93
Stage 10	14.3	-14.03	2.9
Stage 10	14.1	-13.3	3.65
Stage 10	13.9	-12.46	4.22
Stage 10	13.7	-11.53	4.63
Stage 10	13.5	-10.55	4.9
Stage 10	13.3	-9.54	5.08
Stage 10	13.1	-8.51	5.12
Stage 10	12.9	-7.5	5.04
Stage 10	12.7	-6.53	4.87
Stage 10	12.5	-5.61	4.63
Stage 10	12.3	-4.74	4.33
Stage 10	12.1	-3.94	3.98
Stage 10	11.9	-3.22	3.61
Stage 10	11.7	-2.58	3.22
Stage 10	11.5	-2.01	2.83
Stage 10	11.3	-1.52	2.43
Stage 10	11.1	-1.11	2.06
Stage 10	10.9	-0.77	1.7
Stage 10	10.7	-0.5	1.36
Stage 10	10.5	-0.29	1.04
Stage 10	10.3	-0.15	0.74
Stage 10	10.1	-0.05	0.47
Stage 10	9.9	-0.01	0.23
Stage 10	9.8	0	0.05

Design Assumption: A1+M1+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	30	0	0
Stage 10	29.8	0	0
Stage 10	29.6	0	0
Stage 10	29.5	0	0

Risultati Elementi strutturali - A1+M1+R1

Design Assumption: A1+M1+R1 Sollecitazione Tir-A2

Stage	Forza (kN/m)
Stage 3	260
Stage 4	261.5184
Stage 5	255.59911
Stage 6	255.26826
Stage 7	255.96883
Stage 8	254.94898
Stage 9	256.11001
Stage 10	256.02434

Design Assumption: A1+M1+R1 Sollecitazione Tir-B2

Stage	Forza (kN/m)
Stage 5	260
Stage 6	265.55009
Stage 7	256.57944
Stage 8	256.08479
Stage 9	255.46989
Stage 10	255.08327

Design Assumption: A1+M1+R1 Sollecitazione Tir-C2

Stage	Forza (kN/m)
Stage 7	260
Stage 8	272.30827
Stage 9	253.65223
Stage 10	254.1435

Design Assumption: A1+M1+R1 Sollecitazione Tir-D2

Stage	Forza (kN/m)
Stage 9	312
Stage 10	317.66436

Risultati A2+M2+R1

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 1

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	29.5	0	0
Stage 1	29.3	0	0
Stage 1	29.1	0	0
Stage 1	28.9	0	0
Stage 1	28.7	0	0
Stage 1	28.5	0	0
Stage 1	28.3	0	0
Stage 1	28.1	0	0
Stage 1	27.9	0	0
Stage 1	27.7	0	0
Stage 1	27.5	0	0
Stage 1	27.3	0	0
Stage 1	27.1	0	0
Stage 1	26.9	0	0
Stage 1	26.7	0	0
Stage 1	26.5	0	0
Stage 1	26.3	0	0
Stage 1	26.1	0	0
Stage 1	25.9	0	0
Stage 1	25.7	0	0
Stage 1	25.5	0	0
Stage 1	25.3	0	0
Stage 1	25.1	0	0
Stage 1	25	0	0
Stage 1	24.8	0	0
Stage 1	24.6	0	0
Stage 1	24.4	0	0
Stage 1	24.2	0	0
Stage 1	24	0	0
Stage 1	23.8	0	0
Stage 1	23.6	0	0
Stage 1	23.4	0	0
Stage 1	23.2	0	0
Stage 1	23	0	0
Stage 1	22.8	0	0
Stage 1	22.6	0	0
Stage 1	22.5	0	0
Stage 1	22.3	0	0
Stage 1	22.1	0	0
Stage 1	21.9	0	0
Stage 1	21.7	0	0
Stage 1	21.5	0	0
Stage 1	21.3	0	0
Stage 1	21.1	0	0
Stage 1	20.9	0	0
Stage 1	20.7	0	0
Stage 1	20.5	0	0
Stage 1	20.3	0	0
Stage 1	20.1	0	0
Stage 1	19.9	0	0
Stage 1	19.7	0	0
Stage 1	19.5	0	0
Stage 1	19.3	0	0
Stage 1	19.1	0	0
Stage 1	18.9	0	0
Stage 1	18.7	0	0
Stage 1	18.5	0	0
Stage 1	18.3	0	0
Stage 1	18.1	0	0
Stage 1	17.9	0	0
Stage 1	17.7	0	0
Stage 1	17.5	0	0
Stage 1	17.3	0	0
Stage 1	17.1	0	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	16.9	0	0
Stage 1	16.7	0	0
Stage 1	16.5	0	0
Stage 1	16.3	0	0
Stage 1	16.1	0	0
Stage 1	15.9	0	0
Stage 1	15.7	0	0
Stage 1	15.5	0	0
Stage 1	15.3	0	0
Stage 1	15.1	0	0
Stage 1	14.9	0	0
Stage 1	14.7	0	0
Stage 1	14.5	0	0
Stage 1	14.3	0	0
Stage 1	14.1	0	0
Stage 1	13.9	0	0
Stage 1	13.7	0	0
Stage 1	13.5	0	0
Stage 1	13.3	0	0
Stage 1	13.1	0	0
Stage 1	12.9	0	0
Stage 1	12.7	0	0
Stage 1	12.5	0	0
Stage 1	12.3	0	0
Stage 1	12.1	0	0
Stage 1	11.9	0	0
Stage 1	11.7	0	0
Stage 1	11.5	0	0
Stage 1	11.3	0	0
Stage 1	11.1	0	0
Stage 1	10.9	0	0
Stage 1	10.7	0	0
Stage 1	10.5	0	0
Stage 1	10.3	0	0
Stage 1	10.1	0	0
Stage 1	9.9	0	0
Stage 1	9.8	0	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	30	0	0
Stage 1	29.8	0	0
Stage 1	29.6	0	0
Stage 1	29.5	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 2

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	29.5	0	0
Stage 2	29.3	0	0
Stage 2	29.3	0	0
Stage 2	29.1	-0.05	-0.26
Stage 2	28.9	-0.21	-0.79
Stage 2	28.7	-0.53	-1.58
Stage 2	28.5	-1.05	-2.63
Stage 2	28.3	-1.84	-3.95
Stage 2	28.1	-2.95	-5.53
Stage 2	27.9	-4.42	-7.37
Stage 2	27.7	-6.32	-9.48
Stage 2	27.5	-8.69	-11.84
Stage 2	27.3	-11.58	-14.48
Stage 2	27.1	-15.06	-17.37
Stage 2	26.9	-19.16	-20.53
Stage 2	26.7	-23.62	-22.28
Stage 2	26.5	-27.81	-20.95
Stage 2	26.3	-31.11	-16.54
Stage 2	26.1	-33.14	-10.13
Stage 2	25.9	-34.06	-4.58
Stage 2	25.7	-34.01	0.21
Stage 2	25.5	-33.14	4.35
Stage 2	25.3	-31.56	7.93
Stage 2	25.1	-29.35	11.05
Stage 2	25	-28.05	12.99
Stage 2	24.8	-25.15	14.5
Stage 2	24.6	-22.04	15.53
Stage 2	24.4	-18.88	15.79
Stage 2	24.2	-15.81	15.35
Stage 2	24	-12.93	14.4
Stage 2	23.8	-10.31	13.13
Stage 2	23.6	-7.97	11.7
Stage 2	23.4	-5.93	10.2
Stage 2	23.2	-4.18	8.71
Stage 2	23	-2.73	7.28
Stage 2	22.8	-1.54	5.94
Stage 2	22.6	-0.59	4.73
Stage 2	22.5	-0.2	3.91
Stage 2	22.3	0.43	3.15
Stage 2	22.1	0.88	2.28
Stage 2	21.9	1.19	1.55
Stage 2	21.7	1.38	0.94
Stage 2	21.5	1.47	0.45
Stage 2	21.3	1.49	0.07
Stage 2	21.1	1.44	-0.21
Stage 2	20.9	1.36	-0.42
Stage 2	20.7	1.25	-0.56
Stage 2	20.5	1.12	-0.65
Stage 2	20.3	0.98	-0.69
Stage 2	20.1	0.84	-0.7
Stage 2	19.9	0.71	-0.68
Stage 2	19.7	0.58	-0.64
Stage 2	19.5	0.46	-0.58
Stage 2	19.3	0.36	-0.51
Stage 2	19.1	0.27	-0.45
Stage 2	18.9	0.19	-0.38
Stage 2	18.7	0.13	-0.32
Stage 2	18.5	0.08	-0.27
Stage 2	18.3	0.03	-0.21
Stage 2	18.1	0	-0.17
Stage 2	17.9	-0.02	-0.12
Stage 2	17.7	-0.04	-0.09
Stage 2	17.5	-0.05	-0.06
Stage 2	17.3	-0.06	-0.03
Stage 2	17.1	-0.06	-0.02
Stage 2	16.9	-0.06	0
Stage 2	16.7	-0.06	0.01

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	16.5	-0.06	0.02
Stage 2	16.3	-0.05	0.02
Stage 2	16.1	-0.05	0.03
Stage 2	15.9	-0.04	0.03
Stage 2	15.7	-0.04	0.03
Stage 2	15.5	-0.03	0.03
Stage 2	15.3	-0.03	0.03
Stage 2	15.1	-0.02	0.02
Stage 2	14.9	-0.02	0.02
Stage 2	14.7	-0.01	0.02
Stage 2	14.5	-0.01	0.02
Stage 2	14.3	-0.01	0.01
Stage 2	14.1	0	0.01
Stage 2	13.9	0	0.01
Stage 2	13.7	0	0.01
Stage 2	13.5	0	0.01
Stage 2	13.3	0	0
Stage 2	13.1	0	0
Stage 2	12.9	0	0
Stage 2	12.7	0	0
Stage 2	12.5	0	0
Stage 2	12.3	0	0
Stage 2	12.1	0	0
Stage 2	11.9	0	0
Stage 2	11.7	0	0
Stage 2	11.5	0	0
Stage 2	11.3	0	0
Stage 2	11.1	0	0
Stage 2	10.9	0	0
Stage 2	10.7	0	0
Stage 2	10.5	0	0
Stage 2	10.3	0	0
Stage 2	10.1	0	0
Stage 2	9.9	0	0
Stage 2	9.8	0	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	30	0	0
Stage 2	29.8	0	0
Stage 2	29.6	0	0
Stage 2	29.5	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 3

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	29.5	0	0
Stage 3	29.3	0	0
Stage 3	29.3	0	0
Stage 3	29.1	-0.67	-3.34
Stage 3	28.9	-2.68	-10.03
Stage 3	28.7	-6.69	-20.06
Stage 3	28.5	-12.98	-31.44
Stage 3	28.3	-21.68	-43.51
Stage 3	28.1	-32.92	-56.21
Stage 3	27.9	-46.82	-69.48
Stage 3	27.7	-63.45	-83.18
Stage 3	27.5	-82.88	-97.13
Stage 3	27.3	-65.7	85.86
Stage 3	27.1	-51.27	72.16
Stage 3	26.9	-39.49	58.94
Stage 3	26.7	-30.19	46.48
Stage 3	26.5	-23.19	34.98
Stage 3	26.3	-18.26	24.67
Stage 3	26.1	-14.55	18.53
Stage 3	25.9	-11.83	13.6
Stage 3	25.7	-9.87	9.83
Stage 3	25.5	-8.45	7.11
Stage 3	25.3	-7.38	5.34
Stage 3	25.1	-6.5	4.4
Stage 3	25	-6.08	4.16
Stage 3	24.8	-5.29	3.95
Stage 3	24.6	-4.54	3.74
Stage 3	24.4	-3.83	3.55
Stage 3	24.2	-3.18	3.29
Stage 3	24	-2.58	2.96
Stage 3	23.8	-2.06	2.63
Stage 3	23.6	-1.6	2.31
Stage 3	23.4	-1.19	2.01
Stage 3	23.2	-0.85	1.73
Stage 3	23	-0.56	1.47
Stage 3	22.8	-0.31	1.23
Stage 3	22.6	-0.11	1.02
Stage 3	22.5	-0.02	0.87
Stage 3	22.3	0.13	0.73
Stage 3	22.1	0.24	0.56
Stage 3	21.9	0.32	0.42
Stage 3	21.7	0.38	0.29
Stage 3	21.5	0.42	0.18
Stage 3	21.3	0.43	0.09
Stage 3	21.1	0.44	0.01
Stage 3	20.9	0.43	-0.05
Stage 3	20.7	0.41	-0.1
Stage 3	20.5	0.38	-0.13
Stage 3	20.3	0.35	-0.17
Stage 3	20.1	0.31	-0.19
Stage 3	19.9	0.27	-0.2
Stage 3	19.7	0.23	-0.2
Stage 3	19.5	0.19	-0.19
Stage 3	19.3	0.16	-0.18
Stage 3	19.1	0.13	-0.16
Stage 3	18.9	0.1	-0.14
Stage 3	18.7	0.07	-0.13
Stage 3	18.5	0.05	-0.11
Stage 3	18.3	0.03	-0.09
Stage 3	18.1	0.02	-0.07
Stage 3	17.9	0.01	-0.06
Stage 3	17.7	0	-0.05
Stage 3	17.5	-0.01	-0.04
Stage 3	17.3	-0.02	-0.03
Stage 3	17.1	-0.02	-0.02
Stage 3	16.9	-0.02	-0.01
Stage 3	16.7	-0.02	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	16.5	-0.02	0
Stage 3	16.3	-0.02	0
Stage 3	16.1	-0.02	0.01
Stage 3	15.9	-0.02	0.01
Stage 3	15.7	-0.02	0.01
Stage 3	15.5	-0.01	0.01
Stage 3	15.3	-0.01	0.01
Stage 3	15.1	-0.01	0.01
Stage 3	14.9	-0.01	0.01
Stage 3	14.7	-0.01	0.01
Stage 3	14.5	-0.01	0.01
Stage 3	14.3	0	0.01
Stage 3	14.1	0	0.01
Stage 3	13.9	0	0.01
Stage 3	13.7	0	0
Stage 3	13.5	0	0
Stage 3	13.3	0	0
Stage 3	13.1	0	0
Stage 3	12.9	0	0
Stage 3	12.7	0	0
Stage 3	12.5	0	0
Stage 3	12.3	0	0
Stage 3	12.1	0	0
Stage 3	11.9	0	0
Stage 3	11.7	0	0
Stage 3	11.5	0	0
Stage 3	11.3	0	0
Stage 3	11.1	0	0
Stage 3	10.9	0	0
Stage 3	10.7	0	0
Stage 3	10.5	0	0
Stage 3	10.3	0	0
Stage 3	10.1	0	0
Stage 3	9.9	0	0
Stage 3	9.8	0	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 3	30	0	0
Stage 3	29.8	0	0
Stage 3	29.6	0	0
Stage 3	29.5	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 4

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	29.5	0	0
Stage 4	29.3	0	0
Stage 4	29.3	0	0
Stage 4	29.1	-0.67	-3.34
Stage 4	28.9	-2.68	-10.03
Stage 4	28.7	-6.69	-20.06
Stage 4	28.5	-13.1	-32.06
Stage 4	28.3	-22	-44.5
Stage 4	28.1	-33.47	-57.33
Stage 4	27.9	-47.55	-70.4
Stage 4	27.7	-64.25	-83.51
Stage 4	27.5	-83.54	-96.46
Stage 4	27.3	-65.61	89.66
Stage 4	27.1	-50.06	77.76
Stage 4	26.9	-36.71	66.75
Stage 4	26.7	-25.35	56.78
Stage 4	26.5	-15.77	47.93
Stage 4	26.3	-7.72	40.21
Stage 4	26.1	-1.01	33.57
Stage 4	25.9	4.58	27.94
Stage 4	25.7	9.22	23.2
Stage 4	25.5	12.86	18.2
Stage 4	25.3	15.44	12.93
Stage 4	25.1	16.93	7.4
Stage 4	25	17.23	3.06
Stage 4	24.8	16.96	-1.38
Stage 4	24.6	15.44	-7.56
Stage 4	24.4	12.64	-14.01
Stage 4	24.2	8.83	-19.05
Stage 4	24	4.63	-21.01
Stage 4	23.8	0.65	-19.89
Stage 4	23.6	-2.57	-16.09
Stage 4	23.4	-5.04	-12.36
Stage 4	23.2	-6.83	-8.94
Stage 4	23	-8.03	-6.01
Stage 4	22.8	-8.74	-3.56
Stage 4	22.6	-9.05	-1.54
Stage 4	22.5	-9.08	-0.33
Stage 4	22.3	-8.93	0.74
Stage 4	22.1	-8.57	1.84
Stage 4	21.9	-8.04	2.64
Stage 4	21.7	-7.4	3.19
Stage 4	21.5	-6.69	3.53
Stage 4	21.3	-5.96	3.69
Stage 4	21.1	-5.22	3.7
Stage 4	20.9	-4.5	3.58
Stage 4	20.7	-3.83	3.38
Stage 4	20.5	-3.2	3.13
Stage 4	20.3	-2.63	2.85
Stage 4	20.1	-2.12	2.56
Stage 4	19.9	-1.67	2.26
Stage 4	19.7	-1.27	1.96
Stage 4	19.5	-0.94	1.67
Stage 4	19.3	-0.66	1.39
Stage 4	19.1	-0.43	1.18
Stage 4	18.9	-0.23	0.99
Stage 4	18.7	-0.07	0.81
Stage 4	18.5	0.06	0.65
Stage 4	18.3	0.17	0.51
Stage 4	18.1	0.24	0.39
Stage 4	17.9	0.3	0.28
Stage 4	17.7	0.34	0.19
Stage 4	17.5	0.36	0.11
Stage 4	17.3	0.37	0.04
Stage 4	17.1	0.36	-0.01
Stage 4	16.9	0.35	-0.05
Stage 4	16.7	0.34	-0.08

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	16.5	0.32	-0.1
Stage 4	16.3	0.29	-0.12
Stage 4	16.1	0.27	-0.13
Stage 4	15.9	0.24	-0.14
Stage 4	15.7	0.21	-0.14
Stage 4	15.5	0.19	-0.14
Stage 4	15.3	0.16	-0.13
Stage 4	15.1	0.13	-0.12
Stage 4	14.9	0.11	-0.11
Stage 4	14.7	0.09	-0.1
Stage 4	14.5	0.07	-0.09
Stage 4	14.3	0.06	-0.08
Stage 4	14.1	0.04	-0.07
Stage 4	13.9	0.03	-0.06
Stage 4	13.7	0.02	-0.05
Stage 4	13.5	0.01	-0.04
Stage 4	13.3	0	-0.03
Stage 4	13.1	0	-0.03
Stage 4	12.9	-0.01	-0.02
Stage 4	12.7	-0.01	-0.01
Stage 4	12.5	-0.01	-0.01
Stage 4	12.3	-0.01	0
Stage 4	12.1	-0.01	0
Stage 4	11.9	-0.01	0
Stage 4	11.7	-0.01	0
Stage 4	11.5	-0.01	0.01
Stage 4	11.3	-0.01	0.01
Stage 4	11.1	-0.01	0.01
Stage 4	10.9	-0.01	0.01
Stage 4	10.7	0	0.01
Stage 4	10.5	0	0.01
Stage 4	10.3	0	0.01
Stage 4	10.1	0	0
Stage 4	9.9	0	0
Stage 4	9.8	0	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 4	30	0	0
Stage 4	29.8	0	0
Stage 4	29.6	0	0
Stage 4	29.5	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 5

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	29.5	0	0
Stage 5	29.3	0	0
Stage 5	29.3	0	0
Stage 5	29.1	-0.12	-0.61
Stage 5	28.9	-1.18	-5.27
Stage 5	28.7	-3.97	-13.97
Stage 5	28.5	-9.04	-25.35
Stage 5	28.3	-16.61	-37.85
Stage 5	28.1	-26.85	-51.21
Stage 5	27.9	-39.92	-65.34
Stage 5	27.7	-55.95	-80.13
Stage 5	27.5	-75.03	-95.43
Stage 5	27.3	-58.48	82.79
Stage 5	27.1	-45.04	67.2
Stage 5	26.9	-34.68	51.8
Stage 5	26.7	-27.33	36.74
Stage 5	26.5	-22.91	22.09
Stage 5	26.3	-21.34	7.87
Stage 5	26.1	-22.52	-5.93
Stage 5	25.9	-26.4	-19.37
Stage 5	25.7	-32.89	-32.48
Stage 5	25.5	-42.09	-45.97
Stage 5	25.3	-54.04	-59.78
Stage 5	25.1	-68.81	-73.84
Stage 5	25	-77.27	-84.55
Stage 5	24.8	-56.95	101.59
Stage 5	24.6	-39.55	87
Stage 5	24.4	-25.06	72.44
Stage 5	24.2	-13.43	58.16
Stage 5	24	-4.55	44.37
Stage 5	23.8	1.97	32.62
Stage 5	23.6	6.94	24.83
Stage 5	23.4	10.59	18.25
Stage 5	23.2	13.13	12.72
Stage 5	23	14.74	8.04
Stage 5	22.8	15.57	4.18
Stage 5	22.6	15.78	1.04
Stage 5	22.5	15.7	-0.82
Stage 5	22.3	15.21	-2.45
Stage 5	22.1	14.39	-4.08
Stage 5	21.9	13.34	-5.25
Stage 5	21.7	12.14	-6.02
Stage 5	21.5	10.85	-6.43
Stage 5	21.3	9.54	-6.54
Stage 5	21.1	8.25	-6.45
Stage 5	20.9	7.01	-6.2
Stage 5	20.7	5.85	-5.84
Stage 5	20.5	4.77	-5.38
Stage 5	20.3	3.8	-4.87
Stage 5	20.1	2.93	-4.32
Stage 5	19.9	2.18	-3.76
Stage 5	19.7	1.54	-3.22
Stage 5	19.5	1	-2.69
Stage 5	19.3	0.56	-2.2
Stage 5	19.1	0.2	-1.79
Stage 5	18.9	-0.09	-1.43
Stage 5	18.7	-0.31	-1.1
Stage 5	18.5	-0.47	-0.81
Stage 5	18.3	-0.58	-0.56
Stage 5	18.1	-0.65	-0.35
Stage 5	17.9	-0.69	-0.18
Stage 5	17.7	-0.7	-0.04
Stage 5	17.5	-0.68	0.07
Stage 5	17.3	-0.65	0.15
Stage 5	17.1	-0.61	0.21
Stage 5	16.9	-0.56	0.25
Stage 5	16.7	-0.51	0.28

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	16.5	-0.45	0.29
Stage 5	16.3	-0.39	0.28
Stage 5	16.1	-0.34	0.27
Stage 5	15.9	-0.28	0.26
Stage 5	15.7	-0.24	0.24
Stage 5	15.5	-0.19	0.22
Stage 5	15.3	-0.15	0.2
Stage 5	15.1	-0.12	0.18
Stage 5	14.9	-0.09	0.15
Stage 5	14.7	-0.06	0.13
Stage 5	14.5	-0.04	0.11
Stage 5	14.3	-0.02	0.1
Stage 5	14.1	0	0.08
Stage 5	13.9	0.01	0.06
Stage 5	13.7	0.02	0.05
Stage 5	13.5	0.03	0.04
Stage 5	13.3	0.03	0.03
Stage 5	13.1	0.04	0.01
Stage 5	12.9	0.04	0.01
Stage 5	12.7	0.04	0
Stage 5	12.5	0.04	-0.01
Stage 5	12.3	0.03	-0.01
Stage 5	12.1	0.03	-0.01
Stage 5	11.9	0.03	-0.02
Stage 5	11.7	0.02	-0.02
Stage 5	11.5	0.02	-0.02
Stage 5	11.3	0.02	-0.02
Stage 5	11.1	0.01	-0.02
Stage 5	10.9	0.01	-0.02
Stage 5	10.7	0.01	-0.01
Stage 5	10.5	0	-0.01
Stage 5	10.3	0	-0.01
Stage 5	10.1	0	-0.01
Stage 5	9.9	0	0
Stage 5	9.8	0	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 5	30	0	0
Stage 5	29.8	0	0
Stage 5	29.6	0	0
Stage 5	29.5	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 6

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	29.5	0	0
Stage 6	29.3	0	0
Stage 6	29.3	0	0
Stage 6	29.1	-0.28	-1.39
Stage 6	28.9	-1.63	-6.78
Stage 6	28.7	-4.87	-16.16
Stage 6	28.5	-10.5	-28.16
Stage 6	28.3	-18.7	-41.02
Stage 6	28.1	-29.64	-54.69
Stage 6	27.9	-43.46	-69.1
Stage 6	27.7	-60.29	-84.13
Stage 6	27.5	-80.21	-99.62
Stage 6	27.3	-64.6	78.07
Stage 6	27.1	-52.12	62.41
Stage 6	26.9	-42.71	47.01
Stage 6	26.7	-36.3	32.07
Stage 6	26.5	-32.76	17.69
Stage 6	26.3	-31.98	3.9
Stage 6	26.1	-33.84	-9.28
Stage 6	25.9	-38.21	-21.88
Stage 6	25.7	-45	-33.94
Stage 6	25.5	-54.22	-46.1
Stage 6	25.3	-65.88	-58.3
Stage 6	25.1	-79.97	-70.43
Stage 6	25	-87.91	-79.44
Stage 6	24.8	-65.21	113.52
Stage 6	24.6	-44.86	101.76
Stage 6	24.4	-26.77	90.41
Stage 6	24.2	-10.85	79.63
Stage 6	24	3.05	69.5
Stage 6	23.8	15.06	60.05
Stage 6	23.6	25.32	51.3
Stage 6	23.4	33.97	43.22
Stage 6	23.2	41.01	35.19
Stage 6	23	46.39	26.9
Stage 6	22.8	50.06	18.35
Stage 6	22.6	51.96	9.53
Stage 6	22.5	52.24	2.72
Stage 6	22.3	51.4	-4.19
Stage 6	22.1	48.67	-13.66
Stage 6	21.9	43.99	-23.4
Stage 6	21.7	37.64	-31.73
Stage 6	21.5	30.24	-36.98
Stage 6	21.3	22.41	-39.15
Stage 6	21.1	14.77	-38.23
Stage 6	20.9	7.92	-34.24
Stage 6	20.7	2.21	-28.56
Stage 6	20.5	-2.41	-23.08
Stage 6	20.3	-6.04	-18.15
Stage 6	20.1	-8.79	-13.77
Stage 6	19.9	-10.78	-9.93
Stage 6	19.7	-12.1	-6.61
Stage 6	19.5	-12.86	-3.79
Stage 6	19.3	-13.14	-1.43
Stage 6	19.1	-13.09	0.29
Stage 6	18.9	-12.75	1.67
Stage 6	18.7	-12.2	2.74
Stage 6	18.5	-11.5	3.54
Stage 6	18.3	-10.68	4.1
Stage 6	18.1	-9.78	4.46
Stage 6	17.9	-8.85	4.65
Stage 6	17.7	-7.92	4.68
Stage 6	17.5	-7	4.59
Stage 6	17.3	-6.12	4.42
Stage 6	17.1	-5.28	4.2
Stage 6	16.9	-4.49	3.93
Stage 6	16.7	-3.76	3.64

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	16.5	-3.1	3.33
Stage 6	16.3	-2.5	3.01
Stage 6	16.1	-1.96	2.69
Stage 6	15.9	-1.48	2.38
Stage 6	15.7	-1.06	2.08
Stage 6	15.5	-0.71	1.79
Stage 6	15.3	-0.4	1.53
Stage 6	15.1	-0.14	1.28
Stage 6	14.9	0.07	1.05
Stage 6	14.7	0.24	0.85
Stage 6	14.5	0.37	0.67
Stage 6	14.3	0.47	0.5
Stage 6	14.1	0.54	0.36
Stage 6	13.9	0.59	0.24
Stage 6	13.7	0.62	0.14
Stage 6	13.5	0.63	0.05
Stage 6	13.3	0.62	-0.03
Stage 6	13.1	0.6	-0.1
Stage 6	12.9	0.57	-0.16
Stage 6	12.7	0.53	-0.2
Stage 6	12.5	0.48	-0.23
Stage 6	12.3	0.43	-0.25
Stage 6	12.1	0.38	-0.26
Stage 6	11.9	0.33	-0.26
Stage 6	11.7	0.28	-0.26
Stage 6	11.5	0.23	-0.25
Stage 6	11.3	0.18	-0.23
Stage 6	11.1	0.14	-0.21
Stage 6	10.9	0.1	-0.19
Stage 6	10.7	0.07	-0.16
Stage 6	10.5	0.04	-0.14
Stage 6	10.3	0.02	-0.1
Stage 6	10.1	0.01	-0.07
Stage 6	9.9	0	-0.04
Stage 6	9.8	0	-0.01

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 6	30	0	0
Stage 6	29.8	0	0
Stage 6	29.6	0	0
Stage 6	29.5	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 7

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	29.5	0	0
Stage 7	29.3	0	0
Stage 7	29.3	0	0
Stage 7	29.1	-0.06	-0.31
Stage 7	28.9	-1	-4.69
Stage 7	28.7	-3.63	-13.14
Stage 7	28.5	-8.48	-24.28
Stage 7	28.3	-15.76	-36.36
Stage 7	28.1	-25.63	-49.34
Stage 7	27.9	-38.26	-63.15
Stage 7	27.7	-53.79	-77.67
Stage 7	27.5	-72.34	-92.77
Stage 7	27.3	-55.21	85.69
Stage 7	27.1	-41.17	70.15
Stage 7	26.9	-30.23	54.73
Stage 7	26.7	-22.31	39.61
Stage 7	26.5	-17.34	24.85
Stage 7	26.3	-15.24	10.48
Stage 7	26.1	-15.95	-3.54
Stage 7	25.9	-19.4	-17.25
Stage 7	25.7	-25.54	-30.72
Stage 7	25.5	-34.47	-44.65
Stage 7	25.3	-46.27	-59
Stage 7	25.1	-61.01	-73.7
Stage 7	25	-69.51	-84.98
Stage 7	24.8	-49.94	97.86
Stage 7	24.6	-33.47	82.32
Stage 7	24.4	-20.14	66.67
Stage 7	24.2	-9.94	51.02
Stage 7	24	-2.84	35.47
Stage 7	23.8	1.16	20.03
Stage 7	23.6	2.11	4.74
Stage 7	23.4	0.03	-10.4
Stage 7	23.2	-5.13	-25.8
Stage 7	23	-13.46	-41.66
Stage 7	22.8	-25.05	-57.94
Stage 7	22.6	-39.96	-74.56
Stage 7	22.5	-48.68	-87.21
Stage 7	22.3	-29.27	97.04
Stage 7	22.1	-13.27	80.01
Stage 7	21.9	-0.67	63.01
Stage 7	21.7	8.58	46.23
Stage 7	21.5	14.54	29.82
Stage 7	21.3	17.79	16.24
Stage 7	21.1	19.13	6.71
Stage 7	20.9	19.38	1.23
Stage 7	20.7	19.05	-1.62
Stage 7	20.5	18.31	-3.71
Stage 7	20.3	17.25	-5.32
Stage 7	20.1	15.95	-6.5
Stage 7	19.9	14.5	-7.26
Stage 7	19.7	12.97	-7.65
Stage 7	19.5	11.42	-7.74
Stage 7	19.3	9.9	-7.58
Stage 7	19.1	8.46	-7.21
Stage 7	18.9	7.11	-6.73
Stage 7	18.7	5.88	-6.19
Stage 7	18.5	4.76	-5.6
Stage 7	18.3	3.76	-5
Stage 7	18.1	2.87	-4.42
Stage 7	17.9	2.1	-3.88
Stage 7	17.7	1.42	-3.37
Stage 7	17.5	0.84	-2.9
Stage 7	17.3	0.35	-2.46
Stage 7	17.1	-0.06	-2.04
Stage 7	16.9	-0.39	-1.65
Stage 7	16.7	-0.65	-1.29

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	16.5	-0.84	-0.97
Stage 7	16.3	-0.98	-0.69
Stage 7	16.1	-1.07	-0.44
Stage 7	15.9	-1.11	-0.23
Stage 7	15.7	-1.12	-0.05
Stage 7	15.5	-1.11	0.09
Stage 7	15.3	-1.06	0.21
Stage 7	15.1	-1	0.3
Stage 7	14.9	-0.93	0.37
Stage 7	14.7	-0.85	0.42
Stage 7	14.5	-0.76	0.44
Stage 7	14.3	-0.67	0.45
Stage 7	14.1	-0.58	0.45
Stage 7	13.9	-0.49	0.44
Stage 7	13.7	-0.41	0.42
Stage 7	13.5	-0.33	0.39
Stage 7	13.3	-0.26	0.35
Stage 7	13.1	-0.2	0.3
Stage 7	12.9	-0.15	0.26
Stage 7	12.7	-0.1	0.22
Stage 7	12.5	-0.07	0.18
Stage 7	12.3	-0.04	0.14
Stage 7	12.1	-0.02	0.11
Stage 7	11.9	0	0.08
Stage 7	11.7	0.01	0.06
Stage 7	11.5	0.02	0.04
Stage 7	11.3	0.02	0.02
Stage 7	11.1	0.02	0
Stage 7	10.9	0.02	-0.01
Stage 7	10.7	0.02	-0.02
Stage 7	10.5	0.01	-0.02
Stage 7	10.3	0.01	-0.02
Stage 7	10.1	0	-0.02
Stage 7	9.9	0	-0.01
Stage 7	9.8	0	0

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 7	30	0	0
Stage 7	29.8	0	0
Stage 7	29.6	0	0
Stage 7	29.5	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 8

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	29.5	0	0
Stage 8	29.3	0	0
Stage 8	29.3	0	0
Stage 8	29.1	-0.08	-0.41
Stage 8	28.9	-1.07	-4.96
Stage 8	28.7	-3.8	-13.65
Stage 8	28.5	-8.82	-25.11
Stage 8	28.3	-16.34	-37.58
Stage 8	28.1	-26.55	-51.03
Stage 8	27.9	-39.62	-65.37
Stage 8	27.7	-55.72	-80.47
Stage 8	27.5	-74.94	-96.13
Stage 8	27.3	-58.94	80.02
Stage 8	27.1	-46.15	63.94
Stage 8	26.9	-36.55	47.98
Stage 8	26.7	-30.09	32.3
Stage 8	26.5	-26.7	16.96
Stage 8	26.3	-26.31	1.98
Stage 8	26.1	-28.83	-12.63
Stage 8	25.9	-34.22	-26.93
Stage 8	25.7	-42.41	-40.98
Stage 8	25.5	-53.5	-55.43
Stage 8	25.3	-67.55	-70.24
Stage 8	25.1	-84.62	-85.33
Stage 8	25	-94.3	-96.83
Stage 8	24.8	-77.32	84.9
Stage 8	24.6	-63.46	69.3
Stage 8	24.4	-52.7	53.79
Stage 8	24.2	-44.98	38.6
Stage 8	24	-40.2	23.89
Stage 8	23.8	-38.25	9.74
Stage 8	23.6	-39	-3.75
Stage 8	23.4	-42.31	-16.52
Stage 8	23.2	-48.09	-28.89
Stage 8	23	-56.29	-41.01
Stage 8	22.8	-66.84	-52.75
Stage 8	22.6	-79.63	-63.96
Stage 8	22.5	-86.81	-71.84
Stage 8	22.3	-59.56	136.26
Stage 8	22.1	-34.2	126.79
Stage 8	21.9	-10.79	117.05
Stage 8	21.7	10.62	107.05
Stage 8	21.5	29.97	96.78
Stage 8	21.3	47.22	86.26
Stage 8	21.1	62.32	75.47
Stage 8	20.9	75.2	64.41
Stage 8	20.7	85.82	53.09
Stage 8	20.5	94.12	41.51
Stage 8	20.3	100.06	29.67
Stage 8	20.1	103.57	17.56
Stage 8	19.9	104.61	5.19
Stage 8	19.7	103.45	-5.77
Stage 8	19.5	100.72	-13.65
Stage 8	19.3	97.03	-18.45
Stage 8	19.1	91.47	-27.81
Stage 8	18.9	84.31	-35.79
Stage 8	18.7	75.83	-42.41
Stage 8	18.5	66.3	-47.67
Stage 8	18.3	55.98	-51.56
Stage 8	18.1	45.17	-54.08
Stage 8	17.9	34.12	-55.23
Stage 8	17.7	23.12	-55.02
Stage 8	17.5	12.43	-53.44
Stage 8	17.3	2.33	-50.5
Stage 8	17.1	-6.91	-46.19
Stage 8	16.9	-15.01	-40.51
Stage 8	16.7	-21.88	-34.37

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	16.5	-27.58	-28.46
Stage 8	16.3	-32.13	-22.79
Stage 8	16.1	-35.6	-17.33
Stage 8	15.9	-38.02	-12.08
Stage 8	15.7	-39.42	-7
Stage 8	15.5	-39.83	-2.09
Stage 8	15.3	-39.41	2.1
Stage 8	15.1	-38.32	5.47
Stage 8	14.9	-36.7	8.1
Stage 8	14.7	-34.68	10.08
Stage 8	14.5	-32.39	11.49
Stage 8	14.3	-29.9	12.41
Stage 8	14.1	-27.32	12.94
Stage 8	13.9	-24.68	13.15
Stage 8	13.7	-22.06	13.12
Stage 8	13.5	-19.49	12.86
Stage 8	13.3	-17.03	12.31
Stage 8	13.1	-14.71	11.6
Stage 8	12.9	-12.55	10.77
Stage 8	12.7	-10.58	9.87
Stage 8	12.5	-8.79	8.93
Stage 8	12.3	-7.2	7.97
Stage 8	12.1	-5.79	7.03
Stage 8	11.9	-4.57	6.11
Stage 8	11.7	-3.53	5.23
Stage 8	11.5	-2.64	4.4
Stage 8	11.3	-1.92	3.63
Stage 8	11.1	-1.33	2.92
Stage 8	10.9	-0.88	2.28
Stage 8	10.7	-0.54	1.71
Stage 8	10.5	-0.29	1.22
Stage 8	10.3	-0.13	0.8
Stage 8	10.1	-0.04	0.45
Stage 8	9.9	0	0.19
Stage 8	9.8	0	0.04

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 8	30	0	0
Stage 8	29.8	0	0
Stage 8	29.6	0	0
Stage 8	29.5	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 9

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	29.5	0	0
Stage 9	29.3	0	0
Stage 9	29.3	0	0
Stage 9	29.1	-0.05	-0.26
Stage 9	28.9	-0.98	-4.62
Stage 9	28.7	-3.59	-13.08
Stage 9	28.5	-8.45	-24.28
Stage 9	28.3	-15.74	-36.45
Stage 9	28.1	-25.65	-49.57
Stage 9	27.9	-38.36	-63.55
Stage 9	27.7	-54.01	-78.25
Stage 9	27.5	-72.71	-93.49
Stage 9	27.3	-55.87	84.17
Stage 9	27.1	-42.16	68.55
Stage 9	26.9	-31.55	53.08
Stage 9	26.7	-23.97	37.89
Stage 9	26.5	-19.36	23.05
Stage 9	26.3	-17.65	8.56
Stage 9	26.1	-18.77	-5.59
Stage 9	25.9	-22.66	-19.47
Stage 9	25.7	-29.29	-33.14
Stage 9	25.5	-38.75	-47.3
Stage 9	25.3	-51.13	-61.93
Stage 9	25.1	-66.52	-76.94
Stage 9	25	-75.37	-88.48
Stage 9	24.8	-56.82	92.72
Stage 9	24.6	-41.45	76.87
Stage 9	24.4	-29.27	60.92
Stage 9	24.2	-20.27	45.01
Stage 9	24	-14.42	29.23
Stage 9	23.8	-11.7	13.62
Stage 9	23.6	-12.05	-1.77
Stage 9	23.4	-15.44	-16.93
Stage 9	23.2	-21.88	-32.22
Stage 9	23	-31.44	-47.79
Stage 9	22.8	-44.15	-63.56
Stage 9	22.6	-60.04	-79.44
Stage 9	22.5	-69.17	-91.33
Stage 9	22.3	-49.78	96.97
Stage 9	22.1	-33.56	81.08
Stage 9	21.9	-20.72	64.21
Stage 9	21.7	-11.38	46.69
Stage 9	21.5	-5.66	28.62
Stage 9	21.3	-3.65	10.01
Stage 9	21.1	-5.47	-9.07
Stage 9	20.9	-11.19	-28.59
Stage 9	20.7	-20.88	-48.46
Stage 9	20.5	-34.6	-68.64
Stage 9	20.3	-5.15	147.27
Stage 9	20.1	20.18	126.66
Stage 9	19.9	41.38	105.98
Stage 9	19.7	58.46	85.41
Stage 9	19.5	71.49	65.15
Stage 9	19.3	80.81	46.61
Stage 9	19.1	86.26	27.24
Stage 9	18.9	88.27	10.03
Stage 9	18.7	87.26	-5.04
Stage 9	18.5	83.67	-17.96
Stage 9	18.3	77.92	-28.75
Stage 9	18.1	70.43	-37.45
Stage 9	17.9	61.61	-44.09
Stage 9	17.7	51.86	-48.73
Stage 9	17.5	41.62	-51.23
Stage 9	17.3	31.29	-51.63
Stage 9	17.1	21.29	-49.98
Stage 9	16.9	12.02	-46.37
Stage 9	16.7	3.67	-41.76

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	16.5	-3.72	-36.94
Stage 9	16.3	-10.11	-31.95
Stage 9	16.1	-15.48	-26.84
Stage 9	15.9	-19.82	-21.71
Stage 9	15.7	-23.15	-16.68
Stage 9	15.5	-25.5	-11.75
Stage 9	15.3	-26.93	-7.13
Stage 9	15.1	-27.58	-3.24
Stage 9	14.9	-27.59	-0.03
Stage 9	14.7	-27.07	2.57
Stage 9	14.5	-26.14	4.63
Stage 9	14.3	-24.9	6.2
Stage 9	14.1	-23.43	7.36
Stage 9	13.9	-21.79	8.2
Stage 9	13.7	-20.04	8.77
Stage 9	13.5	-18.22	9.12
Stage 9	13.3	-16.37	9.24
Stage 9	13.1	-14.54	9.15
Stage 9	12.9	-12.76	8.89
Stage 9	12.7	-11.06	8.48
Stage 9	12.5	-9.47	7.97
Stage 9	12.3	-7.99	7.39
Stage 9	12.1	-6.64	6.77
Stage 9	11.9	-5.41	6.11
Stage 9	11.7	-4.32	5.45
Stage 9	11.5	-3.37	4.78
Stage 9	11.3	-2.55	4.11
Stage 9	11.1	-1.85	3.47
Stage 9	10.9	-1.28	2.85
Stage 9	10.7	-0.83	2.27
Stage 9	10.5	-0.48	1.73
Stage 9	10.3	-0.24	1.23
Stage 9	10.1	-0.08	0.77
Stage 9	9.9	-0.01	0.36
Stage 9	9.8	0	0.09

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 9	30	0	0
Stage 9	29.8	0	0
Stage 9	29.6	0	0
Stage 9	29.5	0	0

Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 10

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	29.5	0	0
Stage 10	29.3	0	0
Stage 10	29.3	0	0
Stage 10	29.1	-0.05	-0.26
Stage 10	28.9	-0.97	-4.58
Stage 10	28.7	-3.57	-13.02
Stage 10	28.5	-8.41	-24.2
Stage 10	28.3	-15.68	-36.36
Stage 10	28.1	-25.58	-49.46
Stage 10	27.9	-38.26	-63.44
Stage 10	27.7	-53.89	-78.14
Stage 10	27.5	-72.57	-93.39
Stage 10	27.3	-55.73	84.2
Stage 10	27.1	-42.02	68.56
Stage 10	26.9	-31.41	53.06
Stage 10	26.7	-23.84	37.83
Stage 10	26.5	-19.26	22.94
Stage 10	26.3	-17.58	8.4
Stage 10	26.1	-18.74	-5.82
Stage 10	25.9	-22.69	-19.77
Stage 10	25.7	-29.4	-33.52
Stage 10	25.5	-38.95	-47.77
Stage 10	25.3	-51.45	-62.48
Stage 10	25.1	-66.97	-77.59
Stage 10	25	-75.88	-89.18
Stage 10	24.8	-57.55	91.66
Stage 10	24.6	-42.41	75.73
Stage 10	24.4	-30.47	59.7
Stage 10	24.2	-21.73	43.71
Stage 10	24	-16.15	27.86
Stage 10	23.8	-13.72	12.17
Stage 10	23.6	-14.38	-3.3
Stage 10	23.4	-18.09	-18.53
Stage 10	23.2	-24.87	-33.92
Stage 10	23	-34.79	-49.58
Stage 10	22.8	-47.87	-65.43
Stage 10	22.6	-64.14	-81.34
Stage 10	22.5	-73.46	-93.24
Stage 10	22.3	-54.45	95.09
Stage 10	22.1	-38.6	79.26
Stage 10	21.9	-26.1	62.48
Stage 10	21.7	-17.07	45.13
Stage 10	21.5	-11.62	27.28
Stage 10	21.3	-9.82	8.98
Stage 10	21.1	-11.77	-9.72
Stage 10	20.9	-17.52	-28.75
Stage 10	20.7	-27.12	-48.03
Stage 10	20.5	-40.62	-67.5
Stage 10	20.3	-10.12	152.51
Stage 10	20.1	16.46	132.88
Stage 10	19.9	39.12	113.31
Stage 10	19.7	57.9	93.89
Stage 10	19.5	72.84	74.69
Stage 10	19.3	83.99	55.77
Stage 10	19.1	91.28	36.46
Stage 10	18.9	95.11	19.11
Stage 10	18.7	95.85	3.72
Stage 10	18.5	93.9	-9.73
Stage 10	18.3	89.65	-21.27
Stage 10	18.1	83.47	-30.92
Stage 10	17.9	75.72	-38.74
Stage 10	17.7	66.76	-44.77
Stage 10	17.5	56.99	-48.89
Stage 10	17.3	46.72	-51.35
Stage 10	17.1	36.23	-52.45
Stage 10	16.9	25.79	-52.18
Stage 10	16.7	15.68	-50.55

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	16.5	6.17	-47.54
Stage 10	16.3	-2.46	-43.18
Stage 10	16.1	-9.95	-37.44
Stage 10	15.9	-16.28	-31.64
Stage 10	15.7	-21.48	-26.02
Stage 10	15.5	-25.6	-20.57
Stage 10	15.3	-28.65	-15.28
Stage 10	15.1	-30.68	-10.14
Stage 10	14.9	-31.75	-5.36
Stage 10	14.7	-32.03	-1.38
Stage 10	14.5	-31.66	1.87
Stage 10	14.3	-30.76	4.47
Stage 10	14.1	-29.46	6.51
Stage 10	13.9	-27.85	8.07
Stage 10	13.7	-26	9.24
Stage 10	13.5	-23.98	10.07
Stage 10	13.3	-21.85	10.64
Stage 10	13.1	-19.67	10.92
Stage 10	12.9	-17.48	10.93
Stage 10	12.7	-15.35	10.69
Stage 10	12.5	-13.29	10.28
Stage 10	12.3	-11.35	9.72
Stage 10	12.1	-9.53	9.06
Stage 10	11.9	-7.87	8.32
Stage 10	11.7	-6.37	7.52
Stage 10	11.5	-5.03	6.69
Stage 10	11.3	-3.86	5.85
Stage 10	11.1	-2.85	5.03
Stage 10	10.9	-2.01	4.22
Stage 10	10.7	-1.32	3.44
Stage 10	10.5	-0.78	2.68
Stage 10	10.3	-0.39	1.96
Stage 10	10.1	-0.14	1.27
Stage 10	9.9	-0.02	0.62
Stage 10	9.8	0	0.15

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 10	30	0	0
Stage 10	29.8	0	0
Stage 10	29.6	0	0
Stage 10	29.5	0	0

Risultati Elementi strutturali - A2+M2+R1

Design Assumption: A2+M2+R1 Sollecitazione Tir-A2

Stage	Forza (kN/m)
Stage 3	200
Stage 4	201.753
Stage 5	196.7821
Stage 6	196.3808
Stage 7	196.8866
Stage 8	195.122
Stage 9	196.1891
Stage 10	196.145

Design Assumption: A2+M2+R1 Sollecitazione Tir-B2

Stage	Forza (kN/m)
Stage 5	200
Stage 6	205.0731
Stage 7	197.2754
Stage 8	196.3184
Stage 9	195.8689
Stage 10	195.5535

Design Assumption: A2+M2+R1 Sollecitazione Tir-C2

Stage	Forza (kN/m)
Stage 7	200
Stage 8	219.0091
Stage 9	203.2253
Stage 10	203.2515

Design Assumption: A2+M2+R1 Sollecitazione Tir-D2

Stage	Forza (kN/m)
Stage 9	240
Stage 10	243.3272

Allegati

Design Assumption : Nominal - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal
* Time:giovedì 31 gennaio 2019 17:28:32
* 1: Defining general settings
UNIT m kN
TITLE GALLERIA IL DOSSO 1 - PARATIA IMBOCCO LATO SONDRIO
DELTA 0.2
option param itemax 40
option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_32 0 9.8 30 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_32 9.8 30 1 0
SOIL 0_R LeftWall_32 9.8 30 2 180

* 4: Defining soil layers
*
* Soil Profile (Morena_2_10_L_0)
*
LDATA Morena_2_10_L_0 40 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 34 0 0 0
YOUNG 21000 33600
ENDL
*
* Soil Profile (Morena_galleria_677543_13_L_0)
*
LDATA Morena_galleria_677543_13_L_0 19.35 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 19.5 0 0 0
YOUNG 10500 16800
ENDL
*
* Soil Profile (Morena_2_695417_L_0)
*
LDATA Morena_2_695417_L_0 13.5 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 34 0 0 0
YOUNG 21000 33600
ENDL

* 5: Defining structural materials
* Rebar material: 124 Name=acciaio armonico E=195000000 kPa
MATERIAL acciaioarmonico_124 1.95E+08
* Concrete material: 106 Name=C32/40 E=33345800 kPa
MATERIAL C3240_106 3.3346E+07
* Steel material: 114 Name=S355 E=210000000 kPa
MATERIAL S355_114 2.1E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.1476E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
BEAM Berlinese_67970 LeftWall_32 9.8 29.5 S355_114 0.10532 00 11 0
BEAM Cordolo_657213 LeftWall_32 29.5 30 C2530_104 0.5 11 00 0

* 6.2: Supports
WIRE Tir-A2_425 LeftWall_32 27.5 acciaioarmonico_124 1.1014E-05 200 10 0 0
WIRE Tir-B2_535 LeftWall_32 25 acciaioarmonico_124 1.2171E-05 200 10 0 0
WIRE Tir-C2_635 LeftWall_32 22.5 acciaioarmonico_124 1.2846E-05 200 10 0 0
WIRE Tir-D2_492899 LeftWall_32 20.5 acciaioarmonico_124 1.7353E-05 240 10 0 0

* 6.3: Strips

* 7: Defining Steps
STEP Stage1_31
CHANGE Morena_galleria_677543_13_L_0 U-FRICT=28.35 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 U-STIFAC=2 LeftWall_32
CHANGE Morena_2_10_L_0 U-FRICT=34 LeftWall_32
CHANGE Morena_2_10_L_0 D-FRICT=34 LeftWall_32
CHANGE Morena_2_10_L_0 U-KA=0.254 LeftWall_32
CHANGE Morena_2_10_L_0 U-KP=6.072 LeftWall_32
CHANGE Morena_2_10_L_0 D-KA=0.234 LeftWall_32
CHANGE Morena_2_10_L_0 D-KP=4.635 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 D-FRICT=19.5 LeftWall_32
```

CHANGE Morena_galleria_677543_13_L_0 U-KA=0.372 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 U-KP=4.179 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 D-KA=0.435 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 D-KP=1.949 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-FRICT=34 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-FRICT=34 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-KA=0.28 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-KP=6.072 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KA=0.234 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KP=4.431 LeftWall_32
 CHANGE Morena_2_10_L_0 U-COHE=0 LeftWall_32
 CHANGE Morena_2_10_L_0 U-ADHES=0 LeftWall_32
 CHANGE Morena_2_10_L_0 D-COHE=0 LeftWall_32
 CHANGE Morena_2_10_L_0 D-ADHES=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 U-COHE=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 U-ADHES=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 D-COHE=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 D-ADHES=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-COHE=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-ADHES=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-COHE=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-ADHES=0 LeftWall_32
 SETWALL LeftWall_32
 GEOM 29.5 29.5
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Berlinese_67970 Cordolo_657213
 ENDSTEP

STEP Stage2_692907
 CHANGE Morena_2_10_L_0 D-KP=6.072 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 D-KP=2.486 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KP=5.693 LeftWall_32
 SETWALL LeftWall_32
 GEOM 29.5 27
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage3_693098
 SETWALL LeftWall_32
 GEOM 29.5 27
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-A2_425
 ENDSTEP

STEP Stage4_693289
 CHANGE Morena_galleria_677543_13_L_0 D-KP=2.516 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KP=6.072 LeftWall_32
 SETWALL LeftWall_32
 GEOM 29.5 24.5
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage5_693480
 SETWALL LeftWall_32
 GEOM 29.5 24.5
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-B2_535
 ENDSTEP

STEP Stage6_693671
 SETWALL LeftWall_32
 GEOM 29.5 22
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage7_693862
 SETWALL LeftWall_32
 GEOM 29.5 22
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-C2_635
 ENDSTEP

STEP Stage8_694053
 SETWALL LeftWall_32
 GEOM 29.5 20
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage9_694244
 SETWALL LeftWall_32
 GEOM 29.5 20
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-D2_492899
 ENDSTEP


```
STEP Stage10_694435
SETWALL LeftWall_32
GEOM 29.5 19.35
SURCHARGE 0 0 0 0
WATER 0 0 9.8 0 0
ENDSTEP
```

Design Assumption : SLE (Rara) - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: SLE (Rara)
* Time:giovedì 31 gennaio 2019 17:28:35
* 1: Defining general settings
UNIT m kN
TITLE GALLERIA IL DOSSO 1 - PARATIA IMBOCCO LATO SONDRIO
DELTA 0.2
option param itemax 40
option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_32 0 9.8 30 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_32 9.8 30 1 0
SOIL 0_R LeftWall_32 9.8 30 2 180

* 4: Defining soil layers
*
* Soil Profile (Morena_2_10_L_0)
*
LDATA Morena_2_10_L_0 40 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 34 0 0 0
YOUNG 21000 33600
ENDL
*
* Soil Profile (Morena_galleria_677543_13_L_0)
*
LDATA Morena_galleria_677543_13_L_0 19.35 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 19.5 0 0 0
YOUNG 10500 16800
ENDL
*
* Soil Profile (Morena_2_695417_L_0)
*
LDATA Morena_2_695417_L_0 13.5 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 34 0 0 0
YOUNG 21000 33600
ENDL

* 5: Defining structural materials
* Rebar material: 124 Name=acciaio armonico E=195000000 kPa
MATERIAL acciaioarmonico_124 1.95E+08
* Concrete material: 106 Name=C32/40 E=33345800 kPa
MATERIAL C3240_106 3.3346E+07
* Steel material: 114 Name=S355 E=210000000 kPa
MATERIAL S355_114 2.1E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.1476E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
BEAM Berlinese_67970 LeftWall_32 9.8 29.5 S355_114 0.10532 00 11 0
BEAM Cordolo_657213 LeftWall_32 29.5 30 C2530_104 0.5 11 00 0

* 6.2: Supports
WIRE Tir-A2_425 LeftWall_32 27.5 acciaioarmonico_124 1.1014E-05 200 10 0 0
WIRE Tir-B2_535 LeftWall_32 25 acciaioarmonico_124 1.2171E-05 200 10 0 0
WIRE Tir-C2_635 LeftWall_32 22.5 acciaioarmonico_124 1.2846E-05 200 10 0 0
WIRE Tir-D2_492899 LeftWall_32 20.5 acciaioarmonico_124 1.7353E-05 240 10 0 0

* 6.3: Strips

* 7: Defining Steps
STEP Stage1_31
CHANGE Morena_galleria_677543_13_L_0 U-FRICT=28.35 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 U-STIFAC=2 LeftWall_32
CHANGE Morena_2_10_L_0 U-FRICT=34 LeftWall_32
CHANGE Morena_2_10_L_0 D-FRICT=34 LeftWall_32
CHANGE Morena_2_10_L_0 U-KA=0.254 LeftWall_32
CHANGE Morena_2_10_L_0 U-KP=6.072 LeftWall_32
CHANGE Morena_2_10_L_0 D-KA=0.234 LeftWall_32
CHANGE Morena_2_10_L_0 D-KP=4.635 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 D-FRICT=19.5 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 U-KA=0.372 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 U-KP=4.179 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 D-KA=0.435 LeftWall_32
```

CHANGE Morena_galleria_677543_13_L_0 D-KP=1.949 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-FRICT=34 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-FRICT=34 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-KA=0.28 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-KP=6.072 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KA=0.234 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KP=4.431 LeftWall_32
 CHANGE Morena_2_10_L_0 U-COHE=0 LeftWall_32
 CHANGE Morena_2_10_L_0 U-ADHES=0 LeftWall_32
 CHANGE Morena_2_10_L_0 D-COHE=0 LeftWall_32
 CHANGE Morena_2_10_L_0 D-ADHES=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 U-COHE=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 U-ADHES=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 D-COHE=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 D-ADHES=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-COHE=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-ADHES=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-COHE=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-ADHES=0 LeftWall_32
 SETWALL LeftWall_32
 GEOM 29.5 29.5
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Berlinese_67970 Cordolo_657213
 ENDSTEP

STEP Stage2_692907
 CHANGE Morena_2_10_L_0 D-KP=6.072 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 D-KP=2.486 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KP=5.693 LeftWall_32
 SETWALL LeftWall_32
 GEOM 29.5 27
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage3_693098
 SETWALL LeftWall_32
 GEOM 29.5 27
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-A2_425
 ENDSTEP

STEP Stage4_693289
 CHANGE Morena_galleria_677543_13_L_0 D-KP=2.516 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KP=6.072 LeftWall_32
 SETWALL LeftWall_32
 GEOM 29.5 24.5
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage5_693480
 SETWALL LeftWall_32
 GEOM 29.5 24.5
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-B2_535
 ENDSTEP

STEP Stage6_693671
 SETWALL LeftWall_32
 GEOM 29.5 22
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage7_693862
 SETWALL LeftWall_32
 GEOM 29.5 22
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-C2_635
 ENDSTEP

STEP Stage8_694053
 SETWALL LeftWall_32
 GEOM 29.5 20
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage9_694244
 SETWALL LeftWall_32
 GEOM 29.5 20
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-D2_492899
 ENDSTEP

STEP Stage10_694435
 SETWALL LeftWall_32

GEOM 29.5 19.35
SURCHARGE 0 0 0 0
WATER 0 0 9.8 0 0
ENDSTEP

Design Assumption : A1+M1+R1 - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: A1+M1+R1
* Time:giovedì 31 gennaio 2019 17:28:39
* 1: Defining general settings
UNIT m kN
TITLE GALLERIA IL DOSSO 1 - PARATIA IMBOCCO LATO SONDRIO
DELTA 0.2
option param itemax 40
option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_32 0 9.8 30 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_32 9.8 30 1 0
SOIL 0_R LeftWall_32 9.8 30 2 180

* 4: Defining soil layers
*
* Soil Profile (Morena_2_10_L_0)
*
LDATA Morena_2_10_L_0 40 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 34 0 0 0
YOUNG 21000 33600
ENDL
*
* Soil Profile (Morena_galleria_677543_13_L_0)
*
LDATA Morena_galleria_677543_13_L_0 19.35 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 19.5 0 0 0
YOUNG 10500 16800
ENDL
*
* Soil Profile (Morena_2_695417_L_0)
*
LDATA Morena_2_695417_L_0 13.5 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 34 0 0 0
YOUNG 21000 33600
ENDL

* 5: Defining structural materials
* Rebar material: 124 Name=acciaio armonico E=195000000 kPa
MATERIAL acciaioarmonico_124 1.95E+08
* Concrete material: 106 Name=C32/40 E=33345800 kPa
MATERIAL C3240_106 3.3346E+07
* Steel material: 114 Name=S355 E=210000000 kPa
MATERIAL S355_114 2.1E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.1476E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
BEAM Berlinese_67970 LeftWall_32 9.8 29.5 S355_114 0.10532 00 11 0
BEAM Cordolo_657213 LeftWall_32 29.5 30 C2530_104 0.5 11 00 0

* 6.2: Supports
WIRE Tir-A2_425 LeftWall_32 27.5 acciaioarmonico_124 1.1014E-05 200 10 0 0
WIRE Tir-B2_535 LeftWall_32 25 acciaioarmonico_124 1.2171E-05 200 10 0 0
WIRE Tir-C2_635 LeftWall_32 22.5 acciaioarmonico_124 1.2846E-05 200 10 0 0
WIRE Tir-D2_492899 LeftWall_32 20.5 acciaioarmonico_124 1.7353E-05 240 10 0 0

* 6.3: Strips

* 7: Defining Steps
STEP Stage1_31
CHANGE Morena_galleria_677543_13_L_0 U-FRICT=28.35 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 U-STIFAC=2 LeftWall_32
CHANGE Morena_2_10_L_0 U-FRICT=34 LeftWall_32
CHANGE Morena_2_10_L_0 D-FRICT=34 LeftWall_32
CHANGE Morena_2_10_L_0 U-KA=0.254 LeftWall_32
CHANGE Morena_2_10_L_0 U-KP=6.072 LeftWall_32
CHANGE Morena_2_10_L_0 D-KA=0.234 LeftWall_32
CHANGE Morena_2_10_L_0 D-KP=4.635 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 D-FRICT=19.5 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 U-KA=0.372 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 U-KP=4.179 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 D-KA=0.435 LeftWall_32
```

CHANGE Morena_galleria_677543_13_L_0 D-KP=1.949 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-FRICT=34 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-FRICT=34 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-KA=0.28 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-KP=6.072 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KA=0.234 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KP=4.431 LeftWall_32
 CHANGE Morena_2_10_L_0 U-COHE=0 LeftWall_32
 CHANGE Morena_2_10_L_0 U-ADHES=0 LeftWall_32
 CHANGE Morena_2_10_L_0 D-COHE=0 LeftWall_32
 CHANGE Morena_2_10_L_0 D-ADHES=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 U-COHE=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 U-ADHES=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 D-COHE=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 D-ADHES=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-COHE=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-ADHES=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-COHE=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-ADHES=0 LeftWall_32
 SETWALL LeftWall_32
 GEOM 29.5 29.5
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Berlinese_67970 Cordolo_657213
 ENDSTEP

STEP Stage2_692907
 CHANGE Morena_2_10_L_0 D-KP=6.072 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 D-KP=2.486 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KP=5.693 LeftWall_32
 SETWALL LeftWall_32
 GEOM 29.5 27
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage3_693098
 SETWALL LeftWall_32
 GEOM 29.5 27
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-A2_425
 ENDSTEP

STEP Stage4_693289
 CHANGE Morena_galleria_677543_13_L_0 D-KP=2.516 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KP=6.072 LeftWall_32
 SETWALL LeftWall_32
 GEOM 29.5 24.5
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage5_693480
 SETWALL LeftWall_32
 GEOM 29.5 24.5
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-B2_535
 ENDSTEP

STEP Stage6_693671
 SETWALL LeftWall_32
 GEOM 29.5 22
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage7_693862
 SETWALL LeftWall_32
 GEOM 29.5 22
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-C2_635
 ENDSTEP

STEP Stage8_694053
 SETWALL LeftWall_32
 GEOM 29.5 20
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage9_694244
 SETWALL LeftWall_32
 GEOM 29.5 20
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-D2_492899
 ENDSTEP

STEP Stage10_694435
 SETWALL LeftWall_32

GEOM 29.5 19.35
SURCHARGE 0 0 0 0
WATER 0 0 9.8 0 0
ENDSTEP

Design Assumption : A2+M2+R1 - File di Paratie - File di input (.d)

```

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: A2+M2+R1
* Time:giovedì 31 gennaio 2019 17:28:42
* 1: Defining general settings
UNIT m kN
TITLE GALLERIA IL DOSSO 1 - PARATIA IMBOCCO LATO SONDRIO
DELTA 0.2
option param itemax 40
option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_32 0 9.8 30 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_32 9.8 30 1 0
SOIL 0_R LeftWall_32 9.8 30 2 180

* 4: Defining soil layers
*
* Soil Profile (Morena_2_10_L_0)
*
LDATA Morena_2_10_L_0 40 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 34 0 0 0
YOUNG 21000 33600
ENDL
*
* Soil Profile (Morena_galleria_677543_13_L_0)
*
LDATA Morena_galleria_677543_13_L_0 19.35 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 19.5 0 0 0
YOUNG 10500 16800
ENDL
*
* Soil Profile (Morena_2_695417_L_0)
*
LDATA Morena_2_695417_L_0 13.5 LeftWall_32
ATREST 0.441 1 1
WEIGHT 20 11 10
PERMEABILITY 0.001
RESISTANCE 0 34 0 0 0
YOUNG 21000 33600
ENDL

* 5: Defining structural materials
* Rebar material: 124 Name=acciaio armonico E=195000000 kPa
MATERIAL acciaioarmonico_124 1.95E+08
* Concrete material: 106 Name=C32/40 E=33345800 kPa
MATERIAL C3240_106 3.3346E+07
* Steel material: 114 Name=S355 E=210000000 kPa
MATERIAL S355_114 2.1E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.1476E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
BEAM Berlinese_67970 LeftWall_32 9.8 29.5 S355_114 0.10532 00 11 0
BEAM Cordolo_657213 LeftWall_32 29.5 30 C2530_104 0.5 11 00 0

* 6.2: Supports
WIRE Tir-A2_425 LeftWall_32 27.5 acciaioarmonico_124 1.1014E-05 200 10 0 0
WIRE Tir-B2_535 LeftWall_32 25 acciaioarmonico_124 1.2171E-05 200 10 0 0
WIRE Tir-C2_635 LeftWall_32 22.5 acciaioarmonico_124 1.2846E-05 200 10 0 0
WIRE Tir-D2_492899 LeftWall_32 20.5 acciaioarmonico_124 1.7353E-05 240 10 0 0

* 6.3: Strips

* 7: Defining Steps
STEP Stage1_31
CHANGE Morena_galleria_677543_13_L_0 U-FRICT=28.35 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 U-STIFAC=2 LeftWall_32
CHANGE Morena_2_10_L_0 U-FRICT=28.352 LeftWall_32
CHANGE Morena_2_10_L_0 D-FRICT=28.352 LeftWall_32
CHANGE Morena_2_10_L_0 U-KA=0.329 LeftWall_32
CHANGE Morena_2_10_L_0 U-KP=4.18 LeftWall_32
CHANGE Morena_2_10_L_0 D-KA=0.3 LeftWall_32
CHANGE Morena_2_10_L_0 D-KP=3.266 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 D-FRICT=15.817 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 U-KA=0.372 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 U-KP=4.179 LeftWall_32
CHANGE Morena_galleria_677543_13_L_0 D-KA=0.507 LeftWall_32

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CHANGE Morena_galleria_677543_13_L_0 D-KP=1.614 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-FRICT=28.352 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-FRICT=28.352 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-KA=0.37 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-KP=4.18 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KA=0.3 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KP=3.13 LeftWall_32
 CHANGE Morena_2_10_L_0 U-COHE=0 LeftWall_32
 CHANGE Morena_2_10_L_0 U-ADHES=0 LeftWall_32
 CHANGE Morena_2_10_L_0 D-COHE=0 LeftWall_32
 CHANGE Morena_2_10_L_0 D-ADHES=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 U-COHE=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 U-ADHES=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 D-COHE=0 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 D-ADHES=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-COHE=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 U-ADHES=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-COHE=0 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-ADHES=0 LeftWall_32
 SETWALL LeftWall_32
 GEOM 29.5 29.5
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Berlinese_67970 Cordolo_657213
 ENDSTEP

STEP Stage2_692907
 CHANGE Morena_2_10_L_0 D-KP=4.18 LeftWall_32
 CHANGE Morena_galleria_677543_13_L_0 D-KP=2.057 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KP=3.945 LeftWall_32
 SETWALL LeftWall_32
 GEOM 29.5 27
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage3_693098
 SETWALL LeftWall_32
 GEOM 29.5 27
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-A2_425
 ENDSTEP

STEP Stage4_693289
 CHANGE Morena_galleria_677543_13_L_0 D-KP=2.08 LeftWall_32
 CHANGE Morena_2_695417_L_0 D-KP=4.18 LeftWall_32
 SETWALL LeftWall_32
 GEOM 29.5 24.5
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage5_693480
 SETWALL LeftWall_32
 GEOM 29.5 24.5
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-B2_535
 ENDSTEP

STEP Stage6_693671
 SETWALL LeftWall_32
 GEOM 29.5 22
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage7_693862
 SETWALL LeftWall_32
 GEOM 29.5 22
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-C2_635
 ENDSTEP

STEP Stage8_694053
 SETWALL LeftWall_32
 GEOM 29.5 20
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ENDSTEP

STEP Stage9_694244
 SETWALL LeftWall_32
 GEOM 29.5 20
 SURCHARGE 0 0 0 0
 WATER 0 0 9.8 0 0
 ADD Tir-D2_492899
 ENDSTEP

STEP Stage10_694435
 SETWALL LeftWall_32

GEOM 29.5 19.35
SURCHARGE 0 0 0 0
WATER 0 0 9.8 0 0
ENDSTEP