

S.S. n.21 "della Maddalena"
 Variante agli abitati di Demonte, Aisone e Vinadio
 Lotto 1. Variante di Demonte

PROGETTO DEFINITIVO

PROGETTAZIONE: ANAS - DIREZIONE PROGETTAZIONE E REALIZZAZIONE LAVORI

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PROTOCOLLO

DATA

Opere d'arte maggiori
 Imbocco lato est
 Relazione di calcolo delle opere di imbocco

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1 INTRODUZIONE

La presente relazione fa parte del Progetto Definitivo (cod. Prog. N.TOUP67) della Variante di Demonte e Vinadio (Aisone) – Lotto 1° - variante di Demonte, relativo al *DGACQ 15-14, Accordo Quadro con unico operatore per lotto, ai sensi dell'59, comma 4 del D.Lsd 163/2006. CIG: 6023245B01 – Prot. n. CDG 0138938 – P del 23/12/2016.*

Questo documento descrive il dimensionamento e le verifiche relative alle opere di sostegno previste nella zona dell'imbocco Est della galleria.

1.1 NORMATIVA DI RIFERIMENTO

La normativa di riferimento è la seguente:

- Decreto Ministero Infrastrutture 14 gennaio 2008 – Nuove norme tecniche per le costruzioni.
- Circolare n.617 del 2 febbraio 2009 del Ministero Infrastrutture e Trasporti – Istruzioni per l'applicazione delle “Nuove norme tecniche per le costruzioni”.

1.2 CARATTERISTICHE DEI MATERIALI

I materiali da impiegare per la realizzazione dell'opera sono riportati qui di seguito.

CALCESTRUZZO

CLS MAGRO UNI EN 206-1 (2006)

- Classe di resistenza: C12/15

CLS PER OPERE STRUTTURALI UNI EN 206-1 UNI 11104 (2004)

CORDOLI

- Classe di resistenza: C25/30
- Classe di lavorabilità: S4
- Classe di esposizione: XC2
- Diametro massimo inerti: 25mm

CLS PROIETTATO

- Destinazione d'uso UNI 10834: temporaneo strutturale (TS)
- Classe di resistenza: C25/30
- Resistenza media su carote $h/\phi = 1$ a 48h: 13N/mm²

ACCIAIO

ACCIAIO PER ARMATURA CLS

- Barre $\phi \leq 26$ mm

- B450C
- tensione caratteristica a rottura, f_{tk} : 540MPa
- tensione caratteristica di snervamento, f_{yk} : 430MPa

RETE ELETTROSALDATA

- Tensione caratteristica di snervamento, f_{yk} : 390MPa

PROFILATI E TUBI: S355 J0 (UNI EN 10025)

- Tensione caratteristica di snervamento, f_{yk} : 355MPa

ACCIAIO ARMONICO STABILIZZATO PER TREFOLI Ø0.6"

- Tensione caratteristica di rottura, f_{ptk} : 1960MPa
- Tensione caratteristica all'1% di deformazioni totali, $f_{p(1)\%}$: 1670MPa
- Allungamento sotto carico massimo >3.5%

MISCELE CEMENTIZIE

PER CEMENTAZIONE MICROPALI

- Classe di resistenza cls: C20/25
- Rapporto a/c: 0.5
- Additivo fluidificante e antiritiro

PER INIEZIONI TIRANTI

- Classe di resistenza cls: C20/25
- Resistenza a compressione R_{ck} (a 3gg) > 25MPa
- Rapporto a/c: 0.5
- Additivo fluidificante e antiritiro

PER CONSOLIDAMENTI

- Classe di resistenza cls: C20/25
- Rapporto a/c: 0.8
- Bentonite: 2% sul peso del cemento

2 CARATTERISTICHE DELL'OPERA

Le opere di sostegno agli scavi all'imbocco Est sono costituite da paratie multiancorate di micropali di diametro $\varnothing 240\text{mm}$ e interasse 0.5m , armati con tubi in acciaio di diametro $\varnothing 168.3\text{mm}$ e spessore 10mm , collegati in testa tramite un cordolo in c.a. di dimensioni $60 \times 60\text{cm}$. Le paratie presentano un'altezza massima di scavo pari a 17m e un massimo di 4 ordini di tiranti attivi a 3/4 trefoli. All'imbocco Est la paratia di sostegno agli scavi si estende tra le p.k. $2+523.314$ e $2+549.31$. Nelle figure seguenti si riportano la planimetria e la sviluppata.

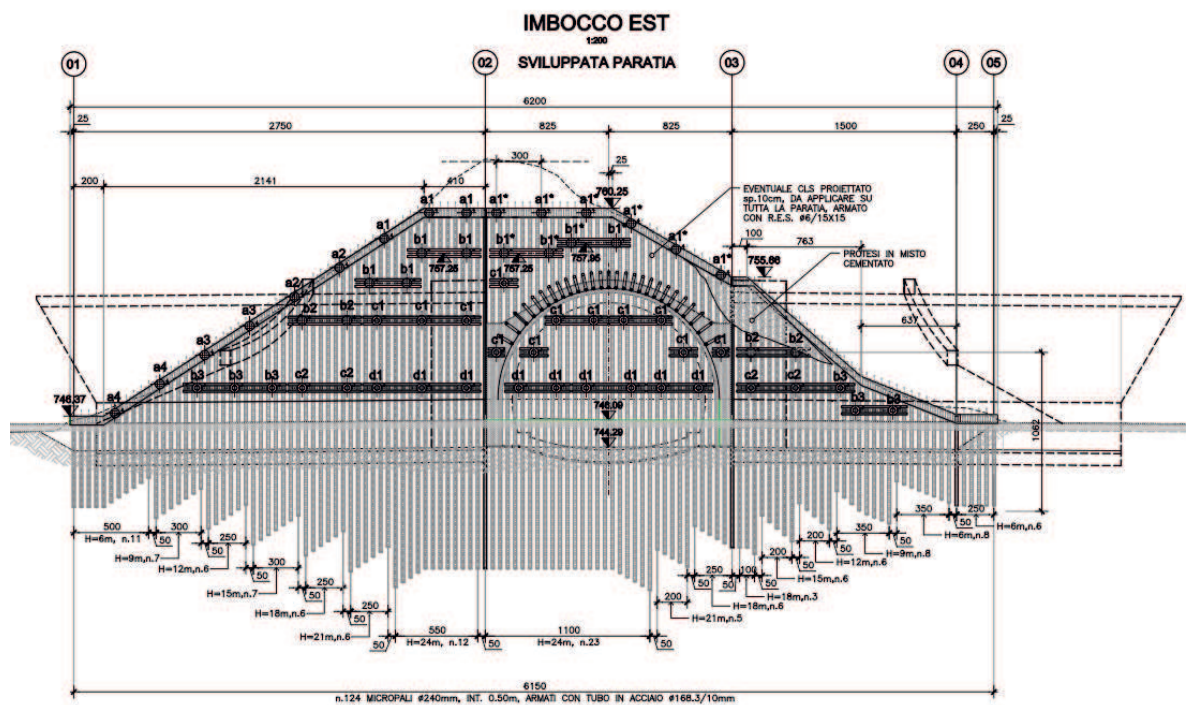


Figura 1: sviluppata della paratia all'imbocco Est (Est)

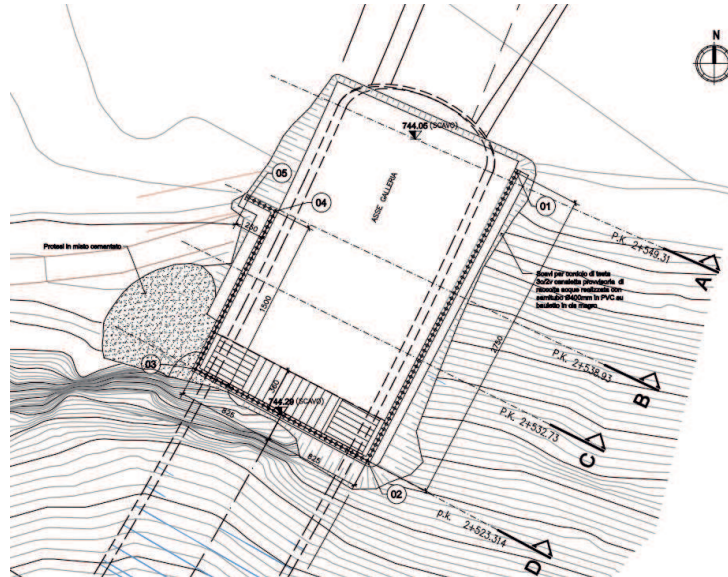


Figura 2: planimetria della paratia

3 INQUADRAMENTO GEOTECNICO

Nella zona dell'imbocco Est vi è la presenza in superficie di detrito di versante (DR), al di sotto del quale l'ammasso roccioso è costituito da metacalcari (UGm1) e più in profondità da carniole litoidi.

Nella tabella seguente si riassumono i parametri geotecnici dell'ammasso roccioso.

Tabella 1: parametri geotecnici utilizzati nelle analisi

Terreno	γ (kN/m ³)	c' (kPa)	ϕ' (°)	E (MPa)	ν (-)
UGm1	24÷26	85÷225	42÷ 59	1500÷ 1600	0.25÷0.27
DR	19÷22	0	35÷ 40	50÷100	0.3÷0.4

dove:

- γ peso di volume
- ϕ' angolo d'attrito efficace
- c' coesione efficace
- E Modulo di Young
- ν rapporto di Poisson

4 VERIFICA DELLE OPERE DI SOSTEGNO

Nel presente capitolo sono descritti i metodi, le assunzioni di calcolo ed i parametri di progetto adottati per le verifiche geotecniche e strutturali delle opere in oggetto. Le verifiche sono state condotte secondo il metodo degli stati limite. Le verifiche agli stati limite prevedono un approccio di tipo semiprobabilistico in base al quale le azioni e le resistenze di progetto sono definite sulla base dei valori caratteristici applicando i coefficienti parziali di seguito definiti:

Azioni: $F_d = (F_k \times \Psi) \times \gamma_F$

Proprietà del terreno: $X_d = X_k / \gamma_M$

Resistenza del terreno: $R_d = R_k / \gamma_R$

Dove:

F: indica genericamente un'azione,

Ψ : indica un fattore ≤ 1.0 che è definito nell'ambito della combinazione di carico;

X: indica genericamente un parametro di resistenza del terreno;

R: indica genericamente la resistenza limite calcolata;

$\gamma_F, \gamma_M, \gamma_R$: indicano i coefficienti parziali.

Una volta definiti i parametri di progetto si verifica che valga la relazione:

$$E_d \leq R_d$$

Dove:

$$E_d = F_k \times \Psi \times \gamma_F \text{ [effetti delle azioni]},$$

$$R_d = 1 / \gamma_R \times R_k (F_k \times \Psi \times \gamma_F, X_k / \gamma_M) \text{ [resistenza del terreno]}.$$

4.1 AZIONI E RESISTENZE DI PROGETTO

I coefficienti parziali γ_F che si riferiscono alle azioni sono indicati nella tabella seguente.

Tabella 2: coefficienti parziali per le azioni o per l'effetto delle azioni

Carichi	Effetto	Coefficiente parziale γ_F (o γ_E)	(A1)	(A2)
Permanenti	Favorevole	γ_G	1.0	1.0
	Sfavorevole		1.3	1.0
Variabili	Favorevole	γ_Q	0	0
	Sfavorevole		1.5	1.3

I coefficienti parziali per i parametri geotecnici del terreno sono riportati nella tabella seguente.

Tabella 3: coefficienti parziali per i parametri geotecnici del terreno

Parametro	Grandezza alla quale applicare il coefficiente parziale	Coefficiente parziale γ_M	(M1)	(M2)
Tangente dell'angolo di resistenza al taglio	$\tan\phi_k'$	γ_ϕ'	1.0	1.25
Coazione efficace	c_k'	γ_c'	1.0	1.25
Resistenza non drenata	c_{uk}	γ_{cu}	1.0	1.4
Peso dell'unità di volume	γ	γ_γ	1.0	1.0

Nella tabella seguente sono specificate tutte le verifiche effettuate per le gallerie artificiali e le opere di sostegno. Dove sono possibili più approcci e più combinazioni è stato usato il più sfavorevole.

Tabella 4: verifiche geotecniche e strutturali delle paratie

INDICE VERIFICA	VERIFICHE GEOETCNICHE	VERIFICHE DI RESISTENZA / CAPACITA'	ALTRO
SLE			Deformata della paratia
SLU/STR (A1+M1+R1)		Resistenza strutturale della paratia, resistenza strutturale dei tiranti (R1=1, tabella 6.5.1)	
SLU/GEO (A2+M2+xx)	<ul style="list-style-type: none"> - Stabilità globale (A2+M2+R2, dove R2=1.1, vedi tabella 6.8.1) - Infissione (% della mobilitazione della spinta passiva) (A2+M2+R1, dove R1=1.0, vedi tabella 6.5.1) 	Sfilamento ancoraggi (tabelle 6.6.I, 6.6.II e III)	

Con riferimento ai coefficienti parziali definiti in tabella 5.2, i parametri geotecnici di calcolo per i due approcci considerati sono i seguenti.

Tabella 5: parametri geotecnici di calcolo

Unità geotecnica	M1(e M2 dove non specificato)			M2	
	γ_{sat} [kN/m3]	c_k' [kPa]	$\tan\phi_k'$ [-]	c_k'/γ_c' [kPa]	$\tan\phi_k'/\gamma_\phi'$ [-]
DR	21	0	$\tan(35^\circ)=0.70$	0	0.56 ($\phi=29.26^\circ$)
UGm1	24	100	$\tan(44^\circ)=0.97$	80	0.77 ($\phi=37.7^\circ$)

4.2 METODO DI CALCOLO

Il calcolo tenso-deformativo delle paratie viene effettuato tramite modelli che simulano l'interazione tra terreno e struttura di sostegno e sono implementati con il codice di calcolo Paratie PLUS (Hapraceas S.r.l. Milano). Il codice di calcolo permette di valutare l'evoluzione tensio-deformativa delle varie fasi di realizzazione dell'opera e che si basa sulle seguenti ipotesi:

- stato di deformazioni piane (paratia di lunghezza infinita);
- terreno modellato come una serie di molle con legame costitutivo elastico-perfettamente plastico con criterio di rottura Mohr-Coulomb;
- struttura discretizzata in elementi perfettamente elastici;
- ancoraggi modellati per mezzo di molle di opportuna rigidità;
- eventuali sovraccarichi a monte e a valle della paratia trasformati in spinte sul paramento in accordo a quanto previsto dalla teoria di elasticità.

I coefficienti di spinta attiva e passiva, k_a e k_p rispettivamente, dipendono dall'angolo di resistenza al taglio, dall'angolo di attrito δ fra terreno e struttura nonché dall'inclinazione del terreno a monte. Il programma impiega le formule di Coulomb per il calcolo del k_a e un algoritmo riportato nell' Eurocodice 7 che fornisce valori paragonabili a quelli di Caquot e Kerisel per il calcolo del k_p .

Nella valutazione dei coefficienti di spinta attiva e passiva, l'angolo d'attrito considerato tra paratia e terreno è assunto pari a $1/2\phi'$.

Il codice di calcolo Paratie PLUS fornisce la percentuale di spinta passiva mobilitata al fine di effettuare la verifica geotecnica d'infissione delle paratie.

Per le verifiche di stabilità globale è stato utilizzato il codice all'equilibrio limite SLIDE di Rocscience (versione 7.011 del 2016), che permette di inserire oltre alle caratteristiche topografiche e geotecniche del terreno, anche la paratia e i tiranti di ancoraggio ed analizzare superfici di scivolamento circolari e non. Il programma SLIDE utilizza vari metodi di analisi all'equilibrio limite: Bishop, Jambu, Fellenius, Morgenstern e Price, ecc.

Le analisi effettuate con il codice Paratie PLUS sono state condotte in considerazione delle fasi seguenti:

Fase P0: condizione geostatica

Fase P1: scavo di sbancamento e profilatura del terreno fino a quota di imposta della trave di coronamento; realizzazione della paratia e del primo ordine di tiranti;

Fasi P2: scavo di sbancamento fino al di sotto del secondo ordine di tiranti

Fasi P3: posa in opera del secondo ordine di tiranti.

Fasi P4-P10: esecuzione delle ulteriori fasi di scavo e tirantatura per gli ordini successivi di tiranti analogamente a quanto effettuato per il primo ordine, fino a raggiungere il piano di fondo scavo.

In allegato si riportano i criteri e i parametri di calcolo, i risultati delle analisi e le caratteristiche geometriche delle sezioni di calcolo della paratie analizzate.

4.3 AZIONI E CARICHI AGENTI

Sovraccarico a monte

Sul terreno a tergo delle paratie è stato applicato un sovraccarico permanente per tenere conto dell'effettiva inclinazione della scarpata.

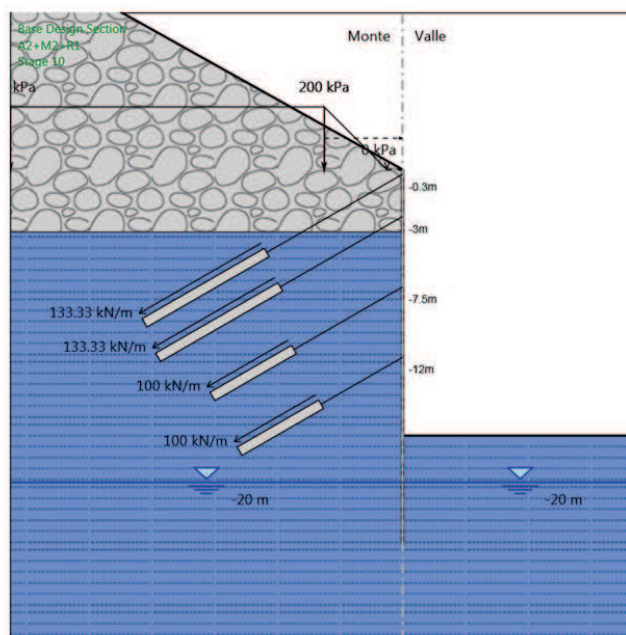


Figura 3: sezione di calcolo rappresentativa con il profilo, la stratigrafia del terreno e i carichi inseriti nel codice di calcolo.

4.4 ELEMENTI STRUTTURALI

4.4.1 RIGIDEZZA EQUIVALENTE DELLE PARATIE

Nei modelli di calcolo la paratia in micropali è schematizzata mediante elementi *beam* aventi rigidezza equivalente. La rigidezza flessionale ed il modulo resistente caratteristico della berlinese in micropali sono stati valutati riconducendosi ad una sezione rettangolare in acciaio di spessore equivalente larga 1m.

4.4.2 ANCORAGGI

Nel modello di calcolo gli ancoraggi sono stati schematizzati con elementi *anchors* aventi un'inclinazione α (15°) rispetto all'orizzontale e un valore di rigidezza equivalente calcolato mediante la seguente relazione:

$$k=A/(i \times L)$$

dove:

- A: area del tirante;
i: interasse tra i tiranti;
L: lunghezza libera di calcolo dell'ancoraggio.

4.5 VERIFICHE STRUTTURALI E GEOTECNICHE

Le verifiche sono state condotte, sulla base dell'involuppo delle sollecitazioni, secondo il metodo semi-probabilistico dello stato limite ultimo.

4.5.1 ARMATURA TUBOLARE

A favore di sicurezza, le verifiche statiche sono eseguite trascurando il contributo della miscela cementizia di riempimento della perforazione del micropalo. Le sollecitazioni di output del codice di calcolo per le paratie sono fornite per metro lineare per cui, nelle verifiche tensionali, è necessario moltiplicare tali sollecitazioni per l'interasse dei micropali.

La tensione per flessione nell'armatura del micropalo è calcolata come segue:

$$\sigma = M_{max}/W$$

La tensione tangenziale in asse dell'armatura del singolo micropalo segue la seguente formulazione:

$$\tau_f = (T \times S_x^*) / (a \times J_x)$$

da cui si ottiene una tensione ideale (criterio di Von Mises) per la sezione esaminata pari a:

$$\sigma_{id} = (\sigma^2 + 3 \times \tau_f^2)^{0.5}$$

dove :

- M_{max} : massima sollecitazione flettente;
T: sollecitazione di taglio corrispondente a M_{max} ;
W: modulo di resistenza del tubo di armatura;
 S_x^* : momento statico dell'area compresa tra il bordo superiore del singolo tubo di armatura e la generica corda che taglia il tubo stesso (in asse tubo tale valore è: $A \cdot (2 \cdot R_m / \pi)$);
 R_m : raggio medio del tubo di armatura;
 J_x : momento d'inerzia del singolo tubo;
a: corda della sezione (pari a due volte lo spessore del tubo).

La verifica dei micropali è soddisfatta se sussiste la relazione seguente:

$$\sigma_{id} \leq f_{yk} / \gamma_{M0}$$

dove γ_{M0} è il coefficiente di sicurezza per la resistenza delle membrature (paragrafo 4.2.4.1.1, Tabella 4.2.V), pari a 1.05.

4.5.2 ANCORAGGI, TRAVI DI RIPARTIZIONE E CORDOLO IN CALCESTRUZZO ARMATO

Verifica di resistenza degli ancoraggi

Nel caso di ancoraggi in trefoli il carico assiale agente deve rispettare la condizione seguente

$$N_a \leq N_R = \frac{0.8 \cdot f_{p(1)k} \cdot A_t}{\gamma_M}$$

dove

- $f_{p(1)k}$: è la tensione caratteristica all'1% di deformazione totale
 A_t : è la sezione del tirante
 γ_M : è il coefficiente di sicurezza per la resistenza dell'acciaio e pari a 1.05

Resistenza ultima allo sfilamento del bulbo

Per il calcolo della resistenza ultima allo sfilamento del bulbo si ricorre a quanto indicato da Bustamante e Doix (1985, riportati da Tanzini 2004) sulla base di una serie di prove sperimentali. In questo caso la resistenza ultima calcolata (R_{ak}) può essere definita sulla base dei grafici forniti dagli autori in relazione alla caratteristiche geotecniche dei materiali interessati e al tipo di iniezione (semplice o multipla):

$$R_{ac} = \pi \times D_b \times L_b \times q_a$$

dove:

- D_b : diametro medio del bulbo: $D_b = a \times D_p$
 D_p : diametro di perforazione,
 L_b : lunghezza del bulbo,
 a : fattore di sbulbamento,
 q_a : aderenza limite bulbo-terreno.

Sulla base di quanto descritto nel paragrafo 6.6.2 del D.M. (caso b) e in assenza di prove dirette (caso a) il calcolo del valore di resistenza caratteristica R_{ak} deriva dalla seguente espressione:

$$R_{ak} = \min[R_{ac \text{ medio}} / \xi_{a3}; R_{ac \text{ min}} / \xi_{a4}]$$

dove $R_{ac \text{ medio}}$ e $R_{ac \text{ min}}$ sono i valori medio e minimo della resistenza R_{ac} ottenuta dal calcolo e ξ_a sono fattori di correlazione che dipendono dalla conoscenza del modello geotecnico di riferimento, funzione del numero dei profili di indagine eseguiti (vedi tabella seguente).

Tabella 6: fattori di correlazione per derivare la resistenza caratteristica dalle prove geotecniche, in funzione del numero n di profili di indagine (Tabella 6.6 III del DM)

Numeri 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

La resistenza di calcolo, $R_{a,d}$ viene definita mediante la relazione:

$R_{ad} = R_{ak} / \gamma_R$ ($\gamma_R = 1.1$ per ancoraggi temporanei, $\gamma_R = 1.2$ per ancoraggi permanenti)

Di seguito si riportano valori caratteristici per l'aderenza limite e il fattore di sbulbamento in funzione della tipologia d'iniezione e del tipo di terreno (Bustamante e Doix).

Tabella 7: valori dell'aderenza limite (1985, riportati da Tanzini 2004)

Descrizione dei terreni-roccie	Valori tipo della resistenza al taglio lungo la superficie laterale al contatto tra la miscela cementizia ed il terreno [kPa]			
	Tipo A	Tipo B	Tipo C	Tipo D
Limo e argilla (con sabbia) tenera medio plastica	35-70	35-95	50-120	50-145
Limo e argilla (con sabbia) dura, da densa a molto densa	50-120	70-190	95-190	95-190
Sabbia (con limo) fine, da poco a mediamente addensata	70-145	70-190	95-190	95-240
Sabbia (con limo, con ghiaia) da mediamente densa a molto densa	95-215	120-360	145-360	145-385
Ghiaia (con sabbia) da mediamente a molto densa	95-265	120-360	145-360	145-385
Morena (limo, sabbia, ghiaia,) da mediamente a molto densa, cementata	95-190	65-310	120-310	120-335
Scisti argillosi teneri (moderatamente fratturati, poco o per niente fratturati)	205-550	N/A	N/A	N/A
Scisti argillosi o scisti duri (moderatamente fratturati, poco o per niente alterati)	515-1380	N/A	N/A	N/A
Calcari (moderatamente fratturati, poco o per niente alterati)	1035-2070	N/A	N/A	N/A
Arenarie (moderatamente fratturate, poco o per niente alterate)	520-1725	N/A	N/A	N/A
Graniti e basalti (moderatamente fratturati, poco o per niente alterati)	1380-4200	N/A	N/A	N/A

Tipo A – micropali gettati a gravità
 Tipo B – micropali iniettati a pressione attraverso il rivestimento provvisorio quando viene sollevato
 Tipo C – micropali con iniezione primaria a gravità e iniezione secondaria globale unica in pressione
 Tipo D – micropali con iniezione primaria a gravità e una o più fasi d'iniezione secondaria in pressione "globale" (iniezione ripetuta selettiva)

Sulla base di valori caratteristici per l'aderenza limite e il fattore di sbulbamento definiti da Bustamante e Doix sono stati scelti i valori per gli ancoraggi in oggetto, che sono riportati nella tabella seguente. Cautelativamente, anche per la parte del bulbo nel substrato, sono stati considerati gli stessi valori adottati per il detrito.

Tabella 8: valori di progetto per le verifiche allo sfilamento

DESCRIZIONE DEI TERRENI/ROCCIA	PARAMETRO				
	Diametro perforazione, D_p [mm]	Fattore di sbulbamento, α [-]	Aderenza limite bulbo-terreno, q_a [kPa]	Fattore ξ_{a3} [-]	Coefficiente parziale γ_R [-]
Detrito di versante	180	1.2	150	1.8	1.1
Calcare	180	1.1	200	1.8	1.1

Resistenza adesione barra-malta cementizia

La tensione limite di ancoraggio, $R_{ak,c}$ viene valutata con la seguente formula :

$$R_{ak,c} = \pi \times d_{eq} \times f_{bd} \times L_b$$

dove:

d_{eq} : diametro equivalente tirante

L_b : Lunghezza bulbo

f_{bd} : $2.25 \times n \times f_{ctk,0.05} / \gamma_c$ (paragrafo 4.1.2.1.1.4)

in cui:

γ_c : 1.5

n : 1.0 ($n=1$, per $\phi \leq 32$ mm; $n=(132-\phi)/100$ per $\phi > 32$ mm)

$f_{ctk,0.05}$: $0.7 \times 0.30 \times f_{ck}^{2/3}$ (1.58MPa per C20/25)

Anche su questo valore si applica il coefficiente γ_R per definire la resistenza di calcolo $R_{ad,c}$.

Lunghezza del tratto libero

La lunghezza della tratta libera teorica per ciascuna fila di tiranti è determinata in base ad una superficie di rottura teorica del terreno a tergo della paratia data da un angolo pari a $45-\phi/2$ (USS Steel Sheet Piling Manual), aumentata di $0.2H$ (dove H è l'altezza fuori terra della paratia) come dimostra la figura seguente.

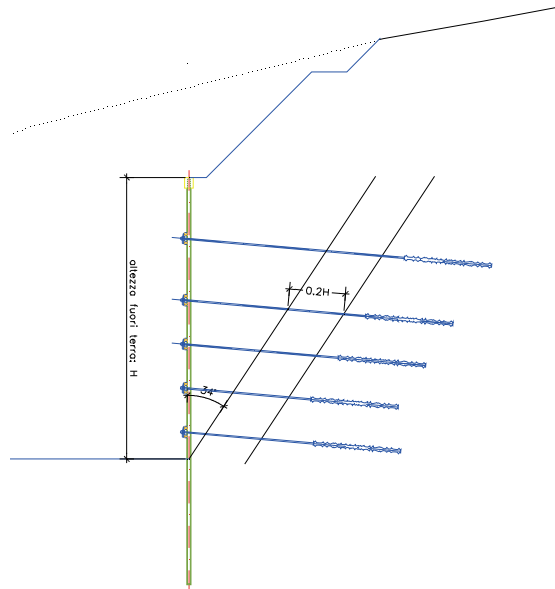


Figura 4: determinazione della lunghezza libera

Travi di ripartizione e piastre di ancoraggio

Lo sforzo trasmesso dagli ancoraggi alla paratia è ripartito per mezzo di una trave costituita da profilati in acciaio. La verifica di questo elemento strutturale è eseguita tramite uno schema di calcolo di trave continua su più appoggi, con luce pari all'interasse tiranti, sottoposta ad un carico ripartito (T_{max}). Tale carico (T_{max}) può essere decomposto in due direzioni ortogonali x e y, producendo due momenti pari rispettivamente a M_x e M_y , di seguito riportati:

$$M_x = (T_{max} \cdot \cos \alpha) \cdot i^2 / \rho$$

$$M_y = (T_{max} \cdot \sin \alpha) \cdot i^2 / \rho$$

dove:

α inclinazione del tirante rispetto all'orizzontale

ρ coefficiente in funzione del numero di campate della trave continua (nel caso specifico =10)

i interasse tra gli ancoraggi

T_{max} sforzo massimo negli ancoraggi per metro lineare di paratia e un taglio V_{max} pari a

$$V_{max} = \kappa \cdot (T_{max} \cdot \cos \alpha) \cdot i$$

dove

κ = coefficiente in funzione del numero di campate della trave continua (nel caso specifico =0.6).

La verifica delle travi di ripartizione è soddisfatta se sussiste la relazione seguente:

$$\sigma_{id} = (\sigma^2 + 3 \times \tau^2)^{0.5} \leq f_{yd} = f_{yk} / \gamma_{M0}$$

dove

γ_{M0} è il coefficiente di sicurezza per la resistenza delle membrature, pari a $\gamma_{M0} = 1.05$
 σ_{id} è la tensione ideale massima che si sviluppa nei profilati per l'azione delle suddette sollecitazioni flettenti e taglianti.

Per quanto riguarda le piastre di ancoraggio il momento di calcolo è valutato in funzione della distanza tra gli appoggi.

Cordolo di testa in c.a.

La trave in testa alla paratia è realizzata in conglomerato cementizio armato e ha dimensioni 50x60cm (b x h). Per l'armatura flettente come per quella a taglio, si assume una quantità minima di acciaio in zona tesa pari allo 0.15% della sezione come previsto dalla Normativa. Si dispongono pertanto 5+5 correnti Ø16 come armatura a flessione con staffe a due bracci Ø14 passo 15cm.

4.6 ANALISI TENSO-DEFORMATIVA DELLA PARATIA

Nella tabella seguente si riportano le caratteristiche geometriche delle sezioni analizzate.

Tabella 9: Caratteristiche geometriche delle sezioni analizzate

Analisi [SEZIONE]	Altezza fuori terra [m]	Infissione [m]	Carichi a monte della paratia [kPa]	Pendenza media pendio [°]	Numero file di ancoraggi [-]	Tipologia di paratia
1_ImbEst	17.0	7.0	200	0	4	Prowisoria

Tabella 10: Caratteristiche statiche delle sezioni analizzate

ID Sezione	Materiale armatura	Diame-tro Mi-cropali [mm]	Armatura diametro ester-estero/spessore [mm]	Interas-se [m]	Inerzia equivalente [m4]	Altezza sezione equivalente [m]	Modulo elastico sezione equivalente [MPa]
1_ImbEst	Acciaio	Ø240	Ø168.3/10.0	0.5	8.01e-005	0.099	200000

4.6.1 STATO LIMITE DI ESERCIZIO (SLE)

Di seguito si riporta la massima deformazione per tutte le sezioni di calcolo. Si nota come questa sia sempre inferiore al valore 1/250H (con H altezza di scavo).

Tabella 11: Caratteristiche delle sezioni analizzate e massime deformazioni

Analisi	Altezza fuori terra [m]	Massima deformazione [mm]
1_ImbEst	16	4

4.6.2 STATO LIMITE PER LE STRUTTURE (STR)

Di seguito si riportano le verifiche strutturali della paratia e dei tiranti per le sollecitazioni (momento e taglio) agenti per la peggiore tra le condizioni di stato limite ultimo, A1+M1+R1 in condizioni statiche. Oltre alle verifiche strutturali dei pali e dei tiranti, nella tabella seguente si riportano le verifiche delle travi di ripartizione.

Tabella 12: SLU/STR – Valori delle sollecitazioni massime e verifiche strutturali della paratia

Analisi	M_{max} [kNm/m]	T [kN/m]	Mpalo [kNm/palo]	Tpalo [kN/palo]	σ_{ideale} [MPa]	Verifica ($f_{yk}/\gamma_{M0}=338\text{MPa}$)
1_ImbEst	69	48	34.5	24.0	186	✓

dove:

M_{max} : momento flettente;
T: sforzo di taglio associato a M_{max} .

Nella tabella seguente si riportano le verifiche degli ancoraggi.

Tabella 13: SLU/STR – Valori delle azioni massime negli ancoraggi e verifiche (si riporta la condizione più sfavorevole)

ANALISI / FILA TIRANTI	Interasse [m]	N° trefoli	Inclinazione [°]	Pretensione [kN]	N_{anc}/m [kN/m]	N_{anc} (SLU) [kN]	N_R [kN]	Verifica
1_ImbEst /Fila 1	3.0	4	30	400	173	520	707	✓
1_ImbEst /Fila 2	3.0	4	30	400	177	530	707	✓
1_ImbEst /Fila 3	3.0	3	30	300	130	390	531	✓
1_ImbEst /Fila 4	3.0	3	30	300	130	390	531	✓

dove:

N_{anc}/m : sforzo assiale per metro nell'ancoraggio;
 N_{anc} : sforzo assiale per tirante;
 N_R : tiro assiale resistente dell'ancoraggio.

Di seguito si riportano le verifiche delle travi di ripartizione per le condizioni più sfavorevoli.

Tabella 14: SLU/STR – Valori delle sollecitazioni massime nelle travi di ripartizione

Travi di ripartizione	Analisi	Interasse [m]	N_{anc} (SLU) [kN]	M_x [kNm]	M_y [kNm]	T_x [kN]	σ_{ideale} [MPa]	Verifica $\sigma_{ideale} < f_{yk}$ / γ_{M0}
HEA220	1_ImbEst /Fila 2	3	530	138	80	275	206	✓

dove:

M_x e M_y : momenti flettenti di calcolo agenti intorno agli assi della trave;

T_x : sforzo di taglio agente in direzione parallela all'anima delle travi;

Di seguito le verifiche a SLU per le sollecitazioni che provocano tensioni normali e quelle che provocano tensioni taglianti sul cordolo di 60x60cm (bxh) in C25/30, è riportata la condizione più sfavorevole.

Tabella 15: SLU/STR – Valori delle sollecitazioni massime nei cordoli dei ripartizione in c.a. e verifiche di momento flettente e taglio

Analisi	N_{anc} (SLU) [kN]	Armatura	M_x [kNm]	M_y [kNm]	T [kN]	F_{SM} [-]	V_{Rsd} [kN]	V_{Rcd} [kN]	F_{ST} [-]
1_ImbEst /Fila 1	520	5+5Ø20 Staffa Ø12/25	135	78	270	2.6	454	749	1.68
Incidenza: 130kg/m ³									

dove:

M_x e M_y : momenti flettenti di calcolo agenti intorno agli assi della trave

T: sforzo di taglio agente in direzione orizzontale

M_{rd} : momento resistente della sezione sottoposta a flessione deviata

F_{SM} : fattore di sicurezza al momento flettente, dato dal rapporto M_u/M

F_{ST} : fattore di sicurezza allo sforzo di taglio, dato dal rapporto $\min(V_{Rsd}, V_{Rcd})/T$, in cui T è la composizione dei tagli agenti nelle due direzioni principali.

Nel caso di elementi strutturali dotati di armature trasversali a taglio occorre verificare che il taglio di progetto (V_{Ed}) sia minore di V_{Rd} .

dove:

$$V_{Rd} = \min(V_{Rsd}, V_{Rcd})$$

V_{Rsd} è la resistenza di calcolo a "taglio trazione" dell'armatura trasversale

$$V_{Rsd} = 0.9 \cdot d \cdot (A_{sw}/s) \cdot f_{yd} \cdot (\cot\alpha + \cot\theta) \cdot \sin\alpha$$

V_{Rcd} è la resistenza di calcolo a "taglio compressione" del calcestruzzo

$$V_{Rcd} = 0.9 \cdot d \cdot b_w \cdot \alpha_c \cdot f_{cd} \cdot (\cot\alpha + \cot\theta) / (1 + \cot^2\theta)$$

per il significato delle diverse entità si rimanda al paragrafo 4.1.2.1.3.1 del NTC2008.

Le verifiche del cordolo di testa in c.a. risultano soddisfatte in quanto i rapporti $F_{SM} = M_u/M$ e $F_{ST} = \min(V_{Rsd}, V_{Rcd})/T$ sono maggiori di 1.

4.6.3 STATO LIMITE ULTIMO DI TIPO GEOTECNICO (GEO)

Nella tabella seguente si riportano i risultati in termini di percentuale di spinta passiva mobilitata e dei fattori di stabilità globale (metodo di Bishop semplificato) per la paratia nella condizione più sfavorevole.

La verifica è stata eseguita considerando l'Approccio 1 e la Combinazione 2 (A2+M2+R2 con R2=1.1) delle NTC2008.

Tabella 16: SLU/GEO – Verifiche geotecniche

Analisi	Percentuale di spinta passiva mobilitata [%]	Stabilità globale: Fattore di sicurezza minimo ($\gamma_R \geq 1.1$)
1_ImbEst	14	3.12

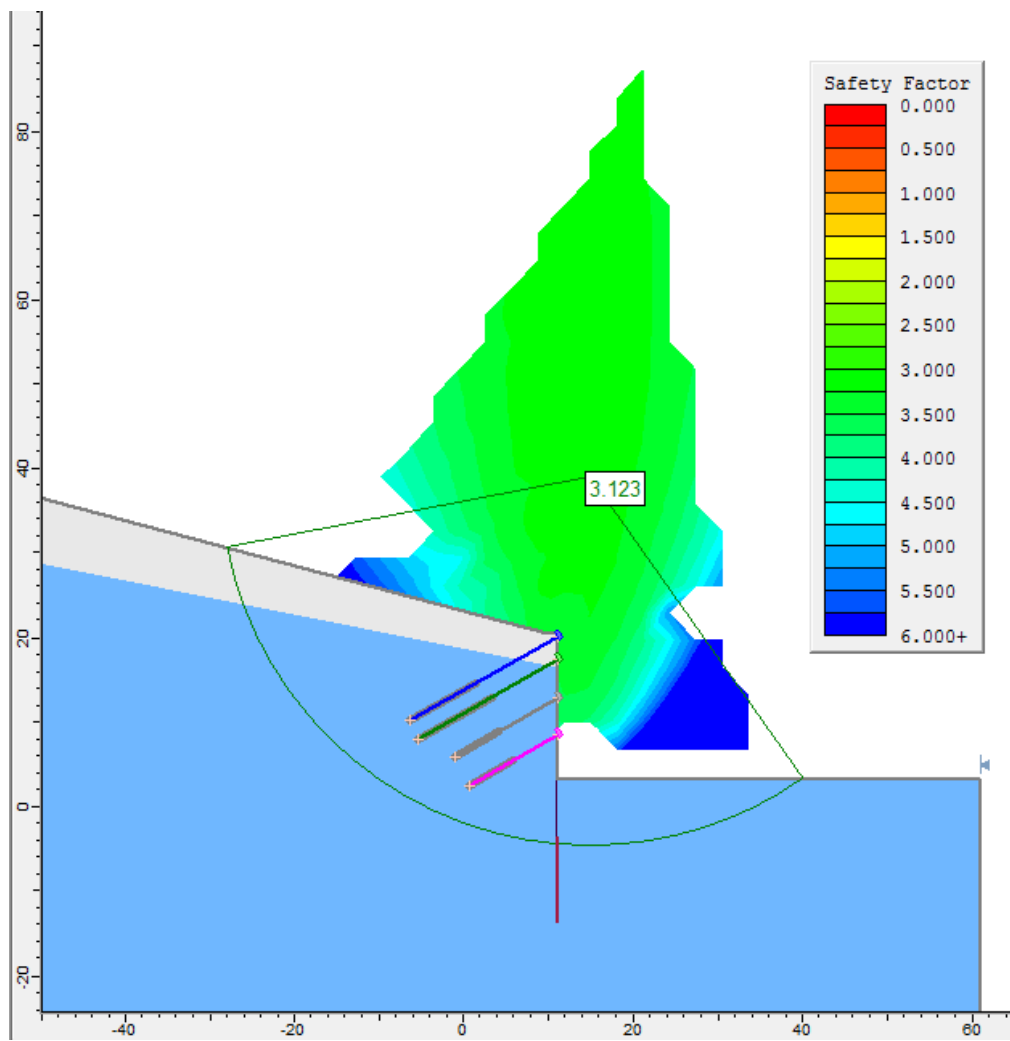


Figura 5: SLU/GEO – Verifica di stabilità globale, analisi 1_ImbEst

Nella tabella seguente si riporta la verifica dei tiranti per le condizioni più sfavorevoli, in termini di resistenza allo sfilamento e lunghezza libera necessaria.

Tabella 17: SLU/GEO – Verifiche dei tiranti allo sfilamento

ANALISI / FILA TIRANTI	Intersasse [m]	N_{anc} (SLU/GEO) [kN]	Lunghezza libera L_{lib} [m]	Lunghezza bulbo L_b [m]	R_{ad} [kN] (aderenza terreno-bulbo)	$R_{ad,c}$ [kN] (aderenza malta-acciaio)	Verifica $N_{anc} \leq$ [Rad, Rad,c]
1_ImbEst /Fila 1	3	400	11	9	463	1627	✓
1_ImbEst /Fila 2	3	466	9	10	514	1807	✓
1_ImbEst /Fila 3	3	300	8	6	377	939	✓
1_ImbEst /Fila 4	3	300	6	6	377	939	✓

5 VERIFICA DI STABILITÀ DEL VERSANTE A MONTE DELLA GALLERIA

Nel presente capitolo si riporta la verifica di stabilità globale del versante considerando la configurazione definitiva. La verifica è stata eseguita considerando l'Approccio 1 e la Combinazione 2 (A2+M2+R2 con R2=1.1) delle NTC2008.

Il versante sarà sostenuto mediante bullonatura a maglia 3m x 3m con bulloni di lunghezza 4m costituiti da barre in acciaio Ø24mm.

L'accelerazione massima orizzontale al sito (a_{max}) è calcolata come prodotto dell'accelerazione su suolo roccioso e dei fattori di amplificazione:

$$a_{max} = a_g \cdot S_S \cdot S_T$$

Per il caso in esame l'accelerazione massima orizzontale al sito per lo stato limite di salvaguardia della vita (SLV) risulta pari a:

$$a_{max} = 0.239 \cdot 1.0 \cdot 1.2 = 0.287g$$

I coefficienti sismici orizzontale e verticale utilizzati nelle presenti analisi sono i seguenti:

$$k_h = \beta_s \cdot a_{max}/g = 0.3 \cdot 0.32 = 0.3 \cdot 0.287 = 0.86$$

$$k_v = 0.5 \cdot k_h = 0.43$$

Come si evince dalla figura riportata di seguito la verifica di stabilità globale risulta soddisfatta $FS > 1.1$ (R2).

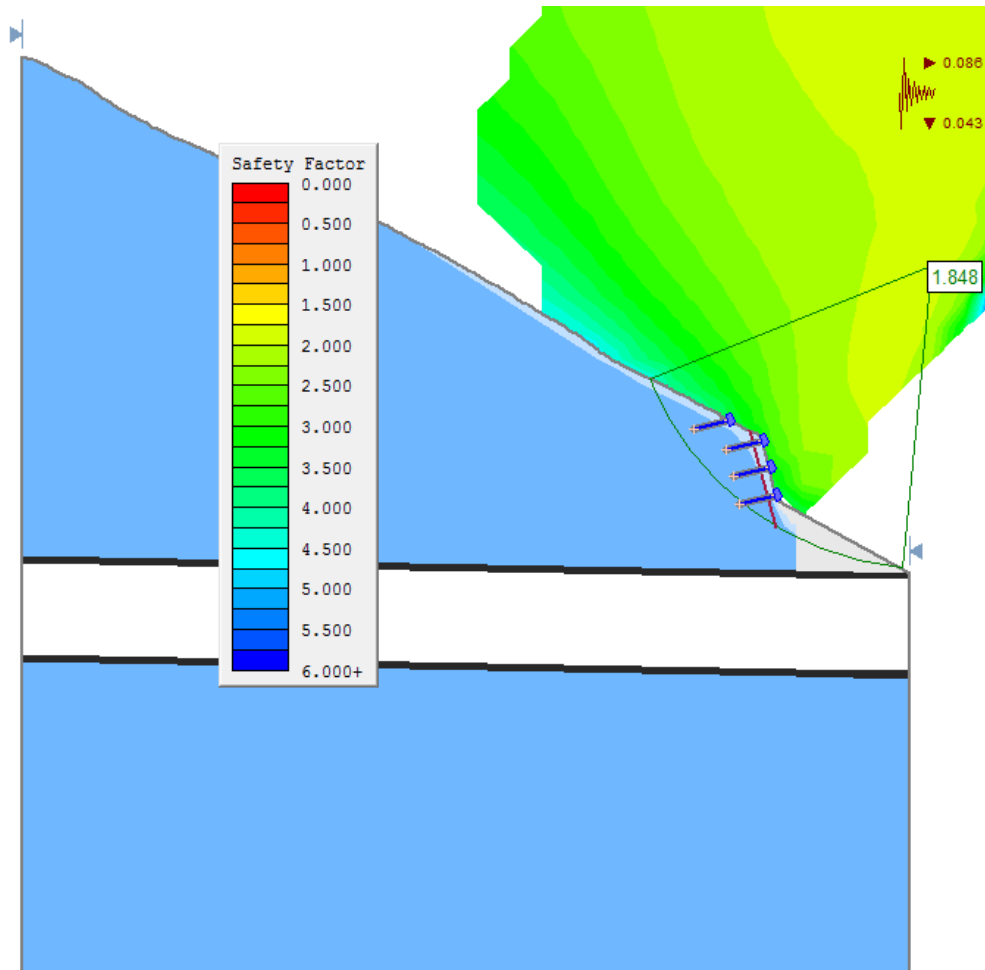


Figura 6: SLU/GEO – Verifica di stabilità globale, analisi 2_ImbEst



Report di Calcolo

Nome Progetto: DEMONTE IMBOCCO EST

Autore:

Jobname: J:\PROJECTS\2017\2517 - ANAS GN DEMONTE\Analysis\Paratie Plus\EST\DEMONTE IMBOCCO EST
1700.pplus

Data: 23/11/2017 11:32:31

Design Section: Base Design Section

Sommario

Contenuto Sommario

Descrizione del Software

ParatiePlus è un codice agli elementi finiti che simula il problema di uno scavo sostenuto da diaframmi flessibili e permette di valutare il comportamento della parete di sostegno durante tutte le fasi intermedie e nella configurazione finale.

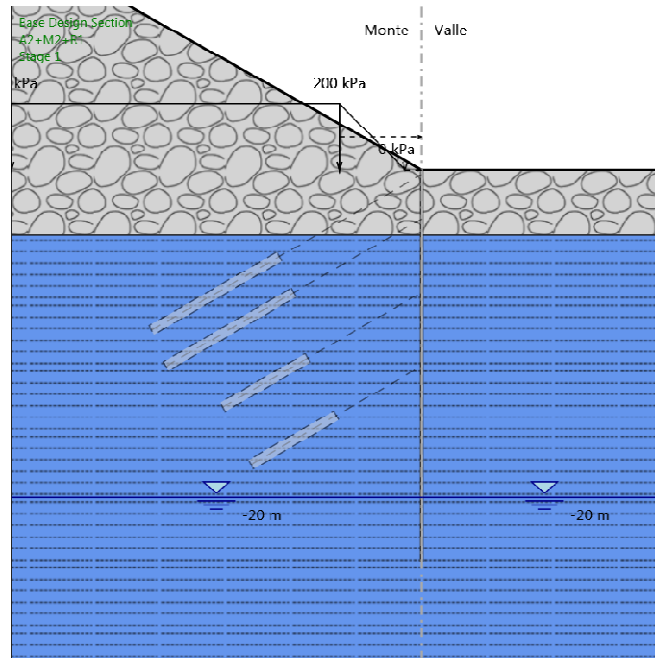
Descrizione della Stratigrafia e degli Strati di Terreno

Tipo : HORIZONTAL
Quota : 15 m
OCR : 1

Tipo : HORIZONTAL
Quota : -4 m
OCR : 1

Descrizione Pareti

X : 0 m
Quota in alto : 0 m
Quota di fondo : -24 m
Muro di sinistra



Fasi di Calcolo

Stage 1

Stage 1

Elementi strutturali

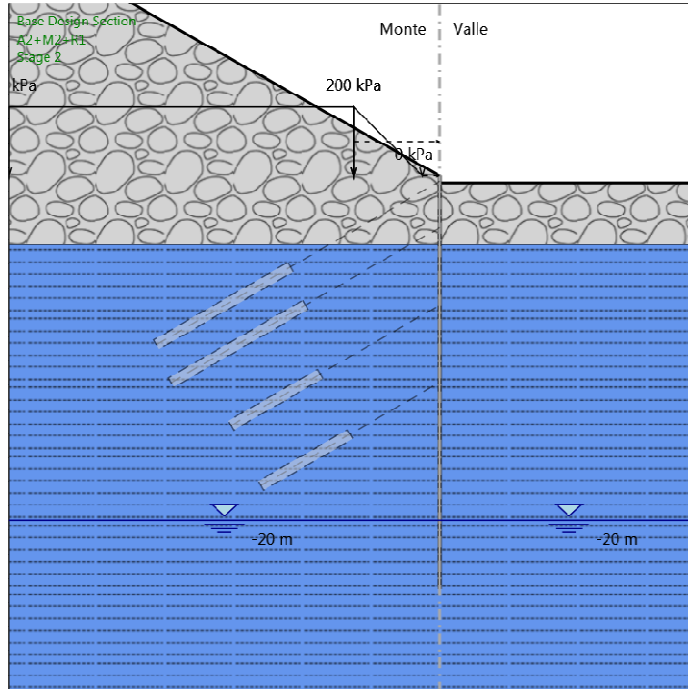
Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -24 m

Sezione : Default Section



Stage 2

Stage 2

Elementi strutturali

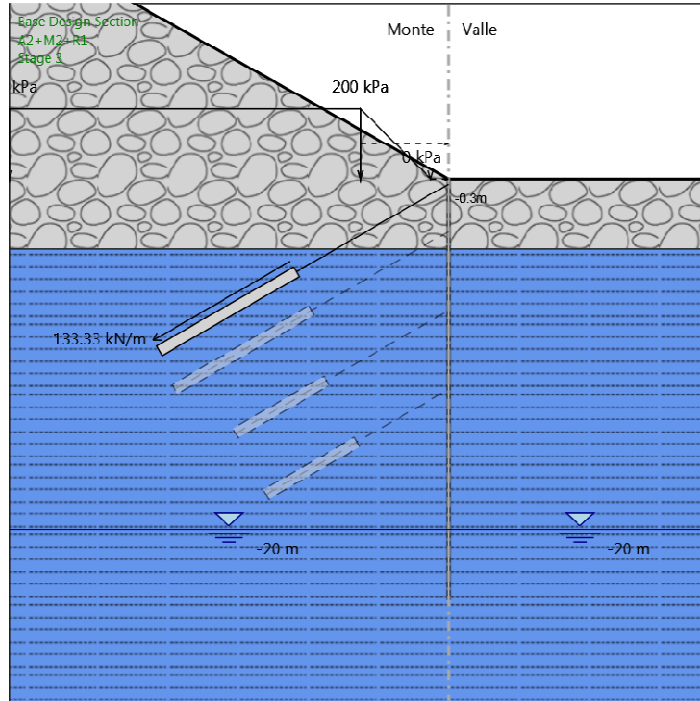
Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -24 m

Sezione : Default Section



Stage 3

Stage 3

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -24 m

Sezione : Default Section

Tirante : 1 fila

X : 0 m

Z : -0.3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

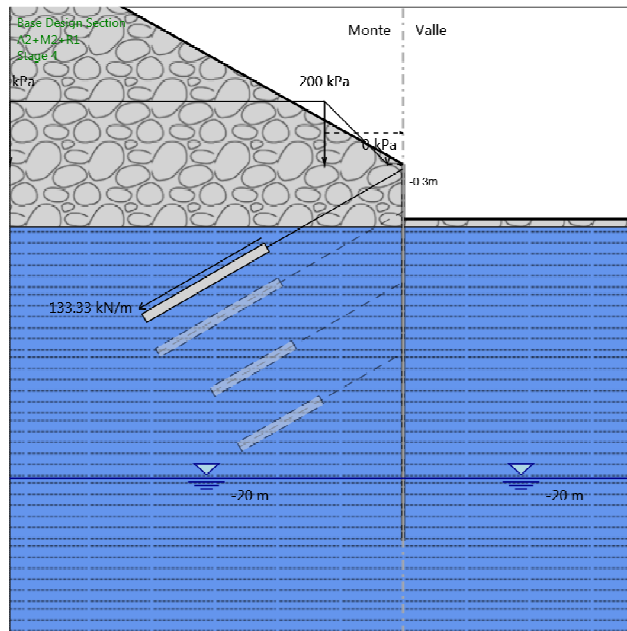
Lunghezza libera : 10 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m²



Stage 4

Stage 4

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -24 m

Sezione : Default Section

Tirante : 1 fila

X : 0 m

Z : -0.3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

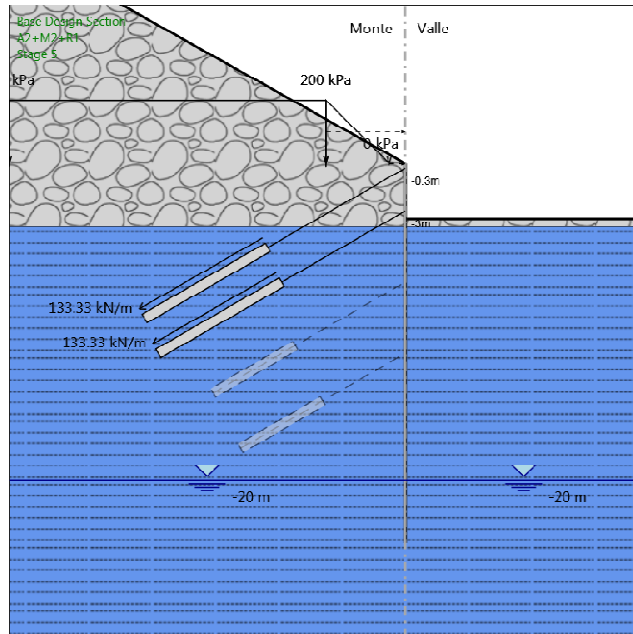
Lunghezza libera : 10 m

Prearico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m²



Stage 5

Stage 5

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -24 m

Sezione : Default Section

Tirante : 1 fila

X : 0 m

Z : -0.3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

Lunghezza libera : 10 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m²

Tirante : 2 fila

X : 0 m

Z : -3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

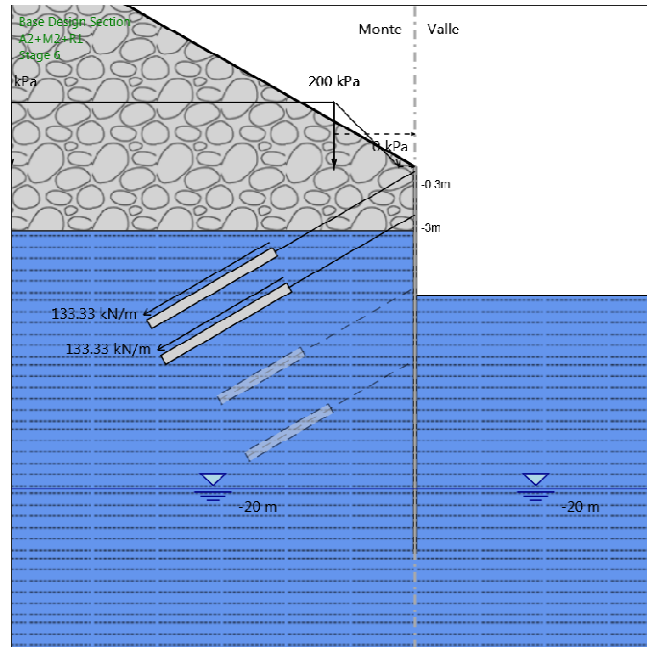
Lunghezza libera : 9 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m²



Stage 6

Stage 6

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -24 m

Sezione : Default Section

Tirante : 1 fila

X : 0 m

Z : -0.3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

Lunghezza libera : 10 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m²

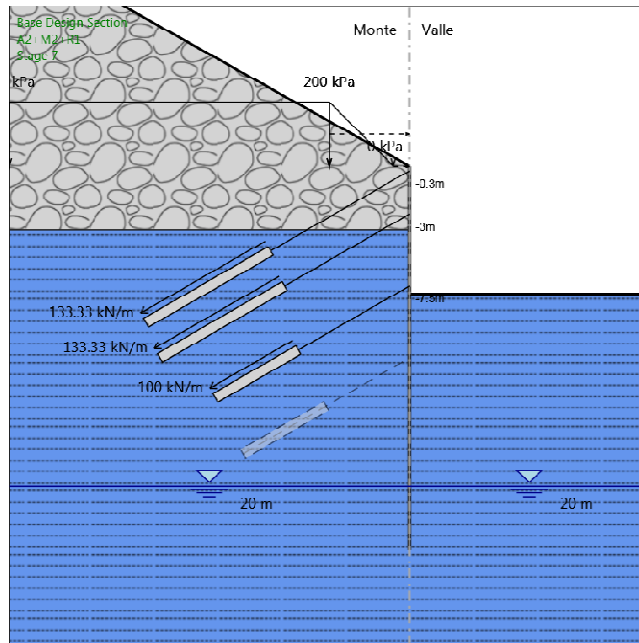
Tirante : 2 fila

X : 0 m

Z : -3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m
Lunghezza libera : 9 m
Precarico : 400 kN
Angolo : 30 °
Sezione : 4 strands
Area : 0.000556 m²



Stage 7

Stage 7

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -24 m

Sezione : Default Section

Tirante : 1 fila

X : 0 m

Z : -0.3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

Lunghezza libera : 10 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m²

Tirante : 2 fila

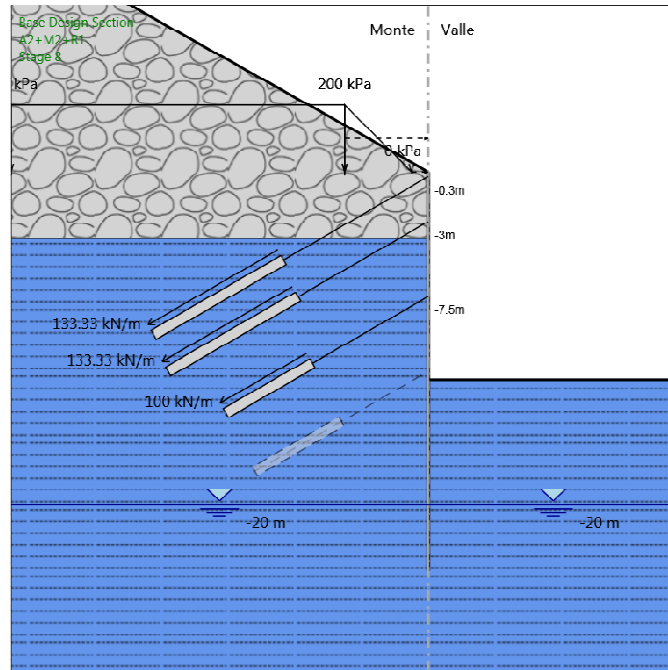
X : 0 m

Z : -3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m
Lunghezza libera : 9 m
Precarico : 400 kN
Angolo : 30 °
Sezione : 4 strands
Area : 0.000556 m²

Tirante : 3 fila
X : 0 m
Z : -7.5 m
Lunghezza bulbo : 6 m
Diametro bulbo : 0.18 m
Lunghezza libera : 8 m
Precarico : 300 kN
Angolo : 30 °
Sezione : 3 strands
Area : 0.000417 m²



Stage 8

Stage 8

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -24 m

Sezione : Default Section

Tirante : 1 fila

X : 0 m

Z : -0.3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

Lunghezza libera : 10 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m²

Tirante : 2 fila

X : 0 m

Z : -3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

Lunghezza libera : 9 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m²

Tirante : 3 fila

X : 0 m

Z : -7.5 m

Lunghezza bulbo : 6 m

Diametro bulbo : 0.18 m

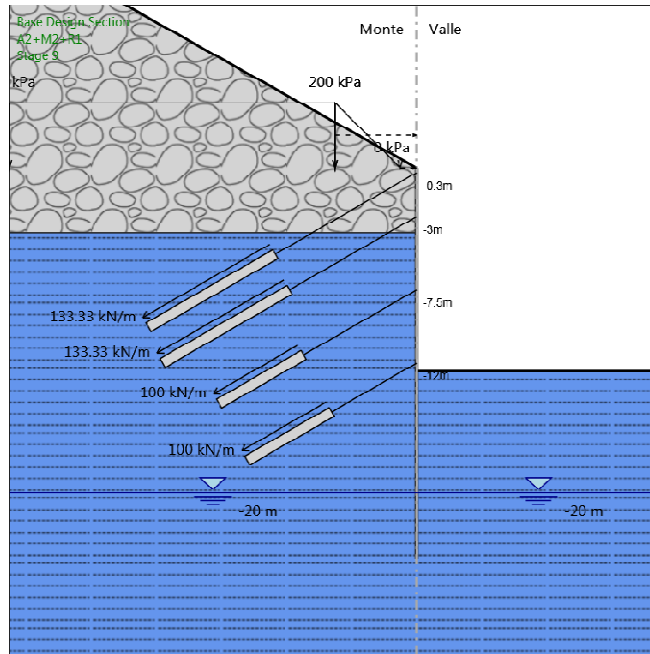
Lunghezza libera : 8 m

Precarico : 300 kN

Angolo : 30 °

Sezione : 3 strands

Area : 0.000417 m²



Stage 9

Stage 9

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -24 m

Sezione : Default Section

Tirante : 1 fila

X : 0 m

Z : -0.3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

Lunghezza libera : 10 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m²

Tirante : 2 fila

X : 0 m

Z : -3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

Lunghezza libera : 9 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m²

Tirante : 3 fila

X : 0 m

Z : -7.5 m

Lunghezza bulbo : 6 m

Diametro bulbo : 0.18 m

Lunghezza libera : 8 m

Precarico : 300 kN

Angolo : 30 °

Sezione : 3 strands

Area : 0.000417 m²

Tirante : 4 fila

X : 0 m

Z : -12 m

Lunghezza bulbo : 6 m

Diametro bulbo : 0.2 m

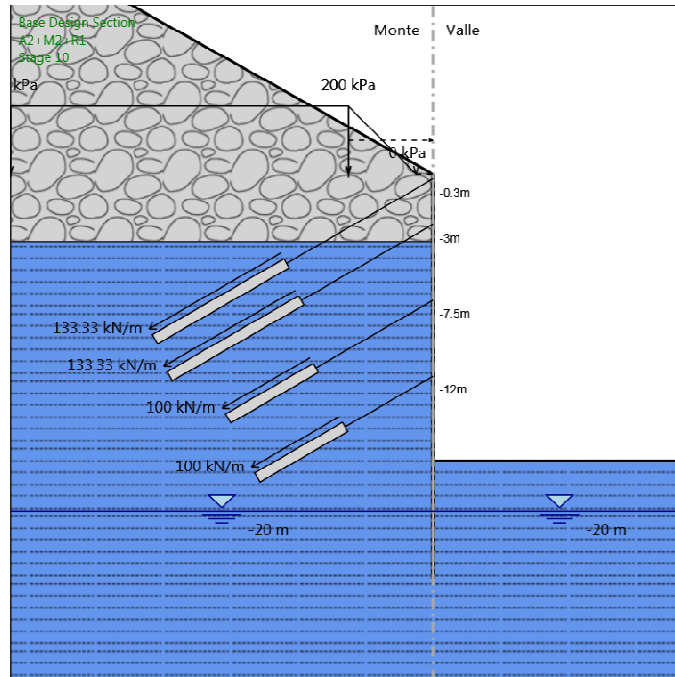
Lunghezza libera : 6 m

Precarico : 300 kN

Angolo : 30 °

Sezione : 3 strands

Area : 0.000417 m²



Stage 10

Stage 10

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -24 m

Sezione : Default Section

Tirante : 1 fila

X : 0 m

Z : -0.3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

Lunghezza libera : 10 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m²

Tirante : 2 fila

X : 0 m

Z : -3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

Lunghezza libera : 9 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m²

Tirante : 3 fila

X : 0 m

Z : -7.5 m

Lunghezza bulbo : 6 m

Diametro bulbo : 0.18 m

Lunghezza libera : 8 m

Precarico : 300 kN

Angolo : 30 °

Sezione : 3 strands

Area : 0.000417 m²

Tirante : 4 fila

X : 0 m

Z : -12 m

Lunghezza bulbo : 6 m

Diametro bulbo : 0.2 m

Lunghezza libera : 6 m

Precarico : 300 kN

Angolo : 30 °

Sezione : 3 strands

Area : 0.000417 m²

Grafici dei Risultati

Design Assumption : Nominal

Tabella Spostamento Nominal - LEFT Stage: Stage 1

1	Design Assumption: Nominal 2	Tipo Risultato: Spostamento	3	Muro: LEFT	
4	Stage	5	Z (m)	6	Spostamento (mm)
1	Stage 1	2	0	3	0
4	Stage 1	5	-0.2	6	0
7	Stage 1	8	-0.3	9	0
10	Stage 1	11	-0.5	12	0
13	Stage 1	14	-0.7	15	0
16	Stage 1	17	-0.9	18	0
19	Stage 1	20	-1.1	21	0
22	Stage 1	23	-1.3	24	0
25	Stage 1	26	-1.5	27	0
28	Stage 1	29	-1.7	30	0
31	Stage 1	32	-1.9	33	0
34	Stage 1	35	-2.1	36	0
37	Stage 1	38	-2.3	39	0
40	Stage 1	41	-2.5	42	0
43	Stage 1	44	-2.7	45	0
46	Stage 1	47	-2.9	48	0
49	Stage 1	50	-3	51	0
52	Stage 1	53	-3.2	54	0
55	Stage 1	56	-3.4	57	0
58	Stage 1	59	-3.6	60	0
61	Stage 1	62	-3.8	63	0
64	Stage 1	65	-4	66	0
67	Stage 1	68	-4.2	69	0
70	Stage 1	71	-4.4	72	0
73	Stage 1	74	-4.6	75	0
76	Stage 1	77	-4.8	78	0
79	Stage 1	80	-5	81	0
82	Stage 1	83	-5.2	84	0
85	Stage 1	86	-5.4	87	0
88	Stage 1	89	-5.6	90	0
91	Stage 1	92	-5.8	93	0
94	Stage 1	95	-6	96	0
97	Stage 1	98	-6.2	99	0
100	Stage 1	101	-6.4	102	0
103	Stage 1	104	-6.6	105	0
106	Stage 1	107	-6.8	108	0
109	Stage 1	110	-7	111	0
112	Stage 1	113	-7.2	114	0
115	Stage 1	116	-7.4	117	0
118	Stage 1	119	-7.5	120	0
121	Stage 1	122	-7.7	123	0
124	Stage 1	125	-7.9	126	0
127	Stage 1	128	-8.1	129	0
130	Stage 1	131	-8.3	132	0
133	Stage 1	134	-8.5	135	0
136	Stage 1	137	-8.7	138	0
139	Stage 1	140	-8.9	141	0
142	Stage 1	143	-9.1	144	0
145	Stage 1	146	-9.3	147	0

1	Design Assumption: Nominal 2		Tipo Risultato: Spostamento		3	Muro: LEFT	
	4	Stage	5	Z (m)		6	Spostamento (mm)
148	Stage 1	149	-9.5	150	0		
151	Stage 1	152	-9.7	153	0		
154	Stage 1	155	-9.9	156	0		
157	Stage 1	158	-10.1	159	0		
160	Stage 1	161	-10.3	162	0		
163	Stage 1	164	-10.5	165	0		
166	Stage 1	167	-10.7	168	0		
169	Stage 1	170	-10.9	171	0		
172	Stage 1	173	-11.1	174	0		
175	Stage 1	176	-11.3	177	0		
178	Stage 1	179	-11.5	180	0		
181	Stage 1	182	-11.7	183	0		
184	Stage 1	185	-11.9	186	0		
187	Stage 1	188	-12	189	0		
190	Stage 1	191	-12.2	192	0		
193	Stage 1	194	-12.4	195	0		
196	Stage 1	197	-12.6	198	0		
199	Stage 1	200	-12.8	201	0		
202	Stage 1	203	-13	204	0		
205	Stage 1	206	-13.2	207	0		
208	Stage 1	209	-13.4	210	0		
211	Stage 1	212	-13.6	213	0		
214	Stage 1	215	-13.8	216	0		
217	Stage 1	218	-14	219	0		
220	Stage 1	221	-14.2	222	0		
223	Stage 1	224	-14.4	225	0		
226	Stage 1	227	-14.6	228	0		
229	Stage 1	230	-14.8	231	0		
232	Stage 1	233	-15	234	0		
235	Stage 1	236	-15.2	237	0		
238	Stage 1	239	-15.4	240	0		
241	Stage 1	242	-15.6	243	0		
244	Stage 1	245	-15.8	246	0		
247	Stage 1	248	-16	249	0		
250	Stage 1	251	-16.2	252	0		
253	Stage 1	254	-16.4	255	0		
256	Stage 1	257	-16.6	258	0		
259	Stage 1	260	-16.8	261	0		
262	Stage 1	263	-17	264	0		
265	Stage 1	266	-17.2	267	0		
268	Stage 1	269	-17.4	270	0		
271	Stage 1	272	-17.6	273	0		
274	Stage 1	275	-17.8	276	0		
277	Stage 1	278	-18	279	0		
280	Stage 1	281	-18.2	282	0		
283	Stage 1	284	-18.4	285	0		
286	Stage 1	287	-18.6	288	0		
289	Stage 1	290	-18.8	291	0		
292	Stage 1	293	-19	294	0		
295	Stage 1	296	-19.2	297	0		
298	Stage 1	299	-19.4	300	0		
301	Stage 1	302	-19.6	303	0		
304	Stage 1	305	-19.8	306	0		
307	Stage 1	308	-20	309	0		
310	Stage 1	311	-20.2	312	0		
313	Stage 1	314	-20.4	315	0		
316	Stage 1	317	-20.6	318	0		
319	Stage 1	320	-20.8	321	0		
322	Stage 1	323	-21	324	0		
325	Stage 1	326	-21.2	327	0		

1	Design Assumption: Nominal 2		Tipo Risultato: Spostamento		3	Muro: LEFT	
	4	Stage	5	Z (m)	6	Spostamento (mm)	
	328	Stage 1	329	-21.4		330	0
	331	Stage 1	332	-21.6		333	0
	334	Stage 1	335	-21.8		336	0
	337	Stage 1	338	-22		339	0
	340	Stage 1	341	-22.2		342	0
	343	Stage 1	344	-22.4		345	0
	346	Stage 1	347	-22.6		348	0
	349	Stage 1	350	-22.8		351	0
	352	Stage 1	353	-23		354	0
	355	Stage 1	356	-23.2		357	0
	358	Stage 1	359	-23.4		360	0
	361	Stage 1	362	-23.6		363	0
	364	Stage 1	365	-23.8		366	0
	367	Stage 1	368	-24		369	0

Tabella Spostamento Nominal - LEFT Stage: Stage 2

7	Design Assumption: Nominal 8		Tipo Risultato: Spostamento 9		Muro: LEFT	
10	Stage	11	Z (m)	12	Spostamento (mm)	
370	Stage 2	371	0	372	0.15	
373	Stage 2	374	-0.2	375	0.12	
376	Stage 2	377	-0.3	378	0.11	
379	Stage 2	380	-0.5	381	0.09	
382	Stage 2	383	-0.7	384	0.06	
385	Stage 2	386	-0.9	387	0.04	
388	Stage 2	389	-1.1	390	0.03	
391	Stage 2	392	-1.3	393	0.02	
394	Stage 2	395	-1.5	396	0.01	
397	Stage 2	398	-1.7	399	0.01	
400	Stage 2	401	-1.9	402	0	
403	Stage 2	404	-2.1	405	0	
406	Stage 2	407	-2.3	408	0	
409	Stage 2	410	-2.5	411	0	
412	Stage 2	413	-2.7	414	0.01	
415	Stage 2	416	-2.9	417	0.01	
418	Stage 2	419	-3	420	0.01	
421	Stage 2	422	-3.2	423	0.01	
424	Stage 2	425	-3.4	426	0.01	
427	Stage 2	428	-3.6	429	0	
430	Stage 2	431	-3.8	432	0	
433	Stage 2	434	-4	435	0	
436	Stage 2	437	-4.2	438	0	
439	Stage 2	440	-4.4	441	0	
442	Stage 2	443	-4.6	444	0	
445	Stage 2	446	-4.8	447	0	
448	Stage 2	449	-5	450	0	
451	Stage 2	452	-5.2	453	0	
454	Stage 2	455	-5.4	456	0	
457	Stage 2	458	-5.6	459	0	
460	Stage 2	461	-5.8	462	0	
463	Stage 2	464	-6	465	0	
466	Stage 2	467	-6.2	468	0	
469	Stage 2	470	-6.4	471	0	
472	Stage 2	473	-6.6	474	0	
475	Stage 2	476	-6.8	477	0	
478	Stage 2	479	-7	480	0	
481	Stage 2	482	-7.2	483	0	
484	Stage 2	485	-7.4	486	0	
487	Stage 2	488	-7.5	489	0	
490	Stage 2	491	-7.7	492	0	
493	Stage 2	494	-7.9	495	0	
496	Stage 2	497	-8.1	498	0	
499	Stage 2	500	-8.3	501	0	
502	Stage 2	503	-8.5	504	0	
505	Stage 2	506	-8.7	507	0	
508	Stage 2	509	-8.9	510	0	
511	Stage 2	512	-9.1	513	0	
514	Stage 2	515	-9.3	516	0	
517	Stage 2	518	-9.5	519	0	
520	Stage 2	521	-9.7	522	0	
523	Stage 2	524	-9.9	525	0	
526	Stage 2	527	-10.1	528	0	
529	Stage 2	530	-10.3	531	0	
532	Stage 2	533	-10.5	534	0	
535	Stage 2	536	-10.7	537	0	

7	Design Assumption: Nominal 8		Tipo Risultato: Spostamento		9	Muro: LEFT	
	10	Stage	11	Z (m)	12	Spostamento (mm)	
	538	Stage 2	539	-10.9		540	0
	541	Stage 2	542	-11.1		543	0
	544	Stage 2	545	-11.3		546	0
	547	Stage 2	548	-11.5		549	0
	550	Stage 2	551	-11.7		552	0
	553	Stage 2	554	-11.9		555	0
	556	Stage 2	557	-12		558	0
	559	Stage 2	560	-12.2		561	0
	562	Stage 2	563	-12.4		564	0
	565	Stage 2	566	-12.6		567	0
	568	Stage 2	569	-12.8		570	0
	571	Stage 2	572	-13		573	0
	574	Stage 2	575	-13.2		576	0
	577	Stage 2	578	-13.4		579	0
	580	Stage 2	581	-13.6		582	0
	583	Stage 2	584	-13.8		585	0
	586	Stage 2	587	-14		588	0
	589	Stage 2	590	-14.2		591	0
	592	Stage 2	593	-14.4		594	0
	595	Stage 2	596	-14.6		597	0
	598	Stage 2	599	-14.8		600	0
	601	Stage 2	602	-15		603	0
	604	Stage 2	605	-15.2		606	0
	607	Stage 2	608	-15.4		609	0
	610	Stage 2	611	-15.6		612	0
	613	Stage 2	614	-15.8		615	0
	616	Stage 2	617	-16		618	0
	619	Stage 2	620	-16.2		621	0
	622	Stage 2	623	-16.4		624	0
	625	Stage 2	626	-16.6		627	0
	628	Stage 2	629	-16.8		630	0
	631	Stage 2	632	-17		633	0
	634	Stage 2	635	-17.2		636	0
	637	Stage 2	638	-17.4		639	0
	640	Stage 2	641	-17.6		642	0
	643	Stage 2	644	-17.8		645	0
	646	Stage 2	647	-18		648	0
	649	Stage 2	650	-18.2		651	0
	652	Stage 2	653	-18.4		654	0
	655	Stage 2	656	-18.6		657	0
	658	Stage 2	659	-18.8		660	0
	661	Stage 2	662	-19		663	0
	664	Stage 2	665	-19.2		666	0
	667	Stage 2	668	-19.4		669	0
	670	Stage 2	671	-19.6		672	0
	673	Stage 2	674	-19.8		675	0
	676	Stage 2	677	-20		678	0
	679	Stage 2	680	-20.2		681	0
	682	Stage 2	683	-20.4		684	0
	685	Stage 2	686	-20.6		687	0
	688	Stage 2	689	-20.8		690	0
	691	Stage 2	692	-21		693	0
	694	Stage 2	695	-21.2		696	0
	697	Stage 2	698	-21.4		699	0
	700	Stage 2	701	-21.6		702	0
	703	Stage 2	704	-21.8		705	0
	706	Stage 2	707	-22		708	0
	709	Stage 2	710	-22.2		711	0
	712	Stage 2	713	-22.4		714	0
	715	Stage 2	716	-22.6		717	0

7		Design Assumption: Nominal 8		Tipo Risultato: Spostamento		9		Muro: LEFT	
10	Stage	11	Z (m)	12	Spostamento (mm)				
718	Stage 2	719	-22.8	720	0				
721	Stage 2	722	-23	723	0				
724	Stage 2	725	-23.2	726	0				
727	Stage 2	728	-23.4	729	0				
730	Stage 2	731	-23.6	732	0				
733	Stage 2	734	-23.8	735	0				
736	Stage 2	737	-24	738	0				

Tabella Spostamento Nominal - LEFT Stage: Stage 3

13	Design Assumption: Nominal 14		Tipo Risultato: Spostamento		15	Muro: LEFT
	16	Stage	17	Z (m)	18	Spostamento (mm)
	739	Stage 3	740	0	741	-5.68
	742	Stage 3	743	-0.2	744	-4.7
	745	Stage 3	746	-0.3	747	-4.21
	748	Stage 3	749	-0.5	750	-3.25
	751	Stage 3	752	-0.7	753	-2.35
	754	Stage 3	755	-0.9	756	-1.58
	757	Stage 3	758	-1.1	759	-0.96
	760	Stage 3	761	-1.3	762	-0.49
	763	Stage 3	764	-1.5	765	-0.17
	766	Stage 3	767	-1.7	768	0.02
	769	Stage 3	770	-1.9	771	0.13
	772	Stage 3	773	-2.1	774	0.17
	775	Stage 3	776	-2.3	777	0.17
	778	Stage 3	779	-2.5	780	0.14
	781	Stage 3	782	-2.7	783	0.11
	784	Stage 3	785	-2.9	786	0.08
	787	Stage 3	788	-3	789	0.06
	790	Stage 3	791	-3.2	792	0.04
	793	Stage 3	794	-3.4	795	0.02
	796	Stage 3	797	-3.6	798	0.01
	799	Stage 3	800	-3.8	801	0
	802	Stage 3	803	-4	804	0
	805	Stage 3	806	-4.2	807	0
	808	Stage 3	809	-4.4	810	0
	811	Stage 3	812	-4.6	813	0
	814	Stage 3	815	-4.8	816	0
	817	Stage 3	818	-5	819	0
	820	Stage 3	821	-5.2	822	0
	823	Stage 3	824	-5.4	825	0
	826	Stage 3	827	-5.6	828	0
	829	Stage 3	830	-5.8	831	0
	832	Stage 3	833	-6	834	0
	835	Stage 3	836	-6.2	837	0
	838	Stage 3	839	-6.4	840	0
	841	Stage 3	842	-6.6	843	0
	844	Stage 3	845	-6.8	846	0
	847	Stage 3	848	-7	849	0
	850	Stage 3	851	-7.2	852	0
	853	Stage 3	854	-7.4	855	0
	856	Stage 3	857	-7.5	858	0
	859	Stage 3	860	-7.7	861	0
	862	Stage 3	863	-7.9	864	0
	865	Stage 3	866	-8.1	867	0
	868	Stage 3	869	-8.3	870	0
	871	Stage 3	872	-8.5	873	0
	874	Stage 3	875	-8.7	876	0
	877	Stage 3	878	-8.9	879	0
	880	Stage 3	881	-9.1	882	0
	883	Stage 3	884	-9.3	885	0
	886	Stage 3	887	-9.5	888	0
	889	Stage 3	890	-9.7	891	0
	892	Stage 3	893	-9.9	894	0
	895	Stage 3	896	-10.1	897	0
	898	Stage 3	899	-10.3	900	0
	901	Stage 3	902	-10.5	903	0
	904	Stage 3	905	-10.7	906	0

13	Design Assumption: Nominal 14		Tipo Risultato: Spostamento		15	Muro: LEFT
16	Stage	17	Z (m)	18	Spostamento (mm)	
907	Stage 3	908	-10.9	909	0	
910	Stage 3	911	-11.1	912	0	
913	Stage 3	914	-11.3	915	0	
916	Stage 3	917	-11.5	918	0	
919	Stage 3	920	-11.7	921	0	
922	Stage 3	923	-11.9	924	0	
925	Stage 3	926	-12	927	0	
928	Stage 3	929	-12.2	930	0	
931	Stage 3	932	-12.4	933	0	
934	Stage 3	935	-12.6	936	0	
937	Stage 3	938	-12.8	939	0	
940	Stage 3	941	-13	942	0	
943	Stage 3	944	-13.2	945	0	
946	Stage 3	947	-13.4	948	0	
949	Stage 3	950	-13.6	951	0	
952	Stage 3	953	-13.8	954	0	
955	Stage 3	956	-14	957	0	
958	Stage 3	959	-14.2	960	0	
961	Stage 3	962	-14.4	963	0	
964	Stage 3	965	-14.6	966	0	
967	Stage 3	968	-14.8	969	0	
970	Stage 3	971	-15	972	0	
973	Stage 3	974	-15.2	975	0	
976	Stage 3	977	-15.4	978	0	
979	Stage 3	980	-15.6	981	0	
982	Stage 3	983	-15.8	984	0	
985	Stage 3	986	-16	987	0	
988	Stage 3	989	-16.2	990	0	
991	Stage 3	992	-16.4	993	0	
994	Stage 3	995	-16.6	996	0	
997	Stage 3	998	-16.8	999	0	
1000	Stage 3	1001	-17	1002	0	
1003	Stage 3	1004	-17.2	1005	0	
1006	Stage 3	1007	-17.4	1008	0	
1009	Stage 3	1010	-17.6	1011	0	
1012	Stage 3	1013	-17.8	1014	0	
1015	Stage 3	1016	-18	1017	0	
1018	Stage 3	1019	-18.2	1020	0	
1021	Stage 3	1022	-18.4	1023	0	
1024	Stage 3	1025	-18.6	1026	0	
1027	Stage 3	1028	-18.8	1029	0	
1030	Stage 3	1031	-19	1032	0	
1033	Stage 3	1034	-19.2	1035	0	
1036	Stage 3	1037	-19.4	1038	0	
1039	Stage 3	1040	-19.6	1041	0	
1042	Stage 3	1043	-19.8	1044	0	
1045	Stage 3	1046	-20	1047	0	
1048	Stage 3	1049	-20.2	1050	0	
1051	Stage 3	1052	-20.4	1053	0	
1054	Stage 3	1055	-20.6	1056	0	
1057	Stage 3	1058	-20.8	1059	0	
1060	Stage 3	1061	-21	1062	0	
1063	Stage 3	1064	-21.2	1065	0	
1066	Stage 3	1067	-21.4	1068	0	
1069	Stage 3	1070	-21.6	1071	0	
1072	Stage 3	1073	-21.8	1074	0	
1075	Stage 3	1076	-22	1077	0	
1078	Stage 3	1079	-22.2	1080	0	
1081	Stage 3	1082	-22.4	1083	0	
1084	Stage 3	1085	-22.6	1086	0	

13	Design Assumption: Nominal 14		Tipo Risultato: Spostamento		15	Muro: LEFT	
	16	Stage	17	Z (m)	18	Spostamento (mm)	
	1087	Stage 3	1088	-22.8	1089	0	
	1090	Stage 3	1091	-23	1092	0	
	1093	Stage 3	1094	-23.2	1095	0	
	1096	Stage 3	1097	-23.4	1098	0	
	1099	Stage 3	1100	-23.6	1101	0	
	1102	Stage 3	1103	-23.8	1104	0	
	1105	Stage 3	1106	-24	1107	0	

Tabella Spostamento Nominal - LEFT Stage: Stage 4

19	Design Assumption: Nominal 20		Tipo Risultato: Spostamento		21	Muro: LEFT
	22	Stage	23	Z (m)	24	Spostamento (mm)
	1108	Stage 4	1109	0	1110	-7.93
	1111	Stage 4	1112	-0.2	1113	-6.34
	1114	Stage 4	1115	-0.3	1116	-5.54
	1117	Stage 4	1118	-0.5	1119	-3.96
	1120	Stage 4	1121	-0.7	1122	-2.44
	1123	Stage 4	1124	-0.9	1125	-1.05
	1126	Stage 4	1127	-1.1	1128	0.19
	1129	Stage 4	1130	-1.3	1131	1.28
	1132	Stage 4	1133	-1.5	1134	2.19
	1135	Stage 4	1136	-1.7	1137	2.92
	1138	Stage 4	1139	-1.9	1140	3.46
	1141	Stage 4	1142	-2.1	1143	3.82
	1144	Stage 4	1145	-2.3	1146	4
	1147	Stage 4	1148	-2.5	1149	4
	1150	Stage 4	1151	-2.7	1152	3.84
	1153	Stage 4	1154	-2.9	1155	3.53
	1156	Stage 4	1157	-3	1158	3.33
	1159	Stage 4	1160	-3.2	1161	2.85
	1162	Stage 4	1163	-3.4	1164	2.31
	1165	Stage 4	1166	-3.6	1167	1.73
	1168	Stage 4	1169	-3.8	1170	1.17
	1171	Stage 4	1172	-4	1173	0.69
	1174	Stage 4	1175	-4.2	1176	0.33
	1177	Stage 4	1178	-4.4	1179	0.1
	1180	Stage 4	1181	-4.6	1182	-0.01
	1183	Stage 4	1184	-4.8	1185	-0.04
	1186	Stage 4	1187	-5	1188	-0.04
	1189	Stage 4	1190	-5.2	1191	-0.02
	1192	Stage 4	1193	-5.4	1194	-0.01
	1195	Stage 4	1196	-5.6	1197	0
	1198	Stage 4	1199	-5.8	1200	0.01
	1201	Stage 4	1202	-6	1203	0.01
	1204	Stage 4	1205	-6.2	1206	0.01
	1207	Stage 4	1208	-6.4	1209	0.01
	1210	Stage 4	1211	-6.6	1212	0.01
	1213	Stage 4	1214	-6.8	1215	0.01
	1216	Stage 4	1217	-7	1218	0.01
	1219	Stage 4	1220	-7.2	1221	0.01
	1222	Stage 4	1223	-7.4	1224	0.01
	1225	Stage 4	1226	-7.5	1227	0.01
	1228	Stage 4	1229	-7.7	1230	0.01
	1231	Stage 4	1232	-7.9	1233	0.01
	1234	Stage 4	1235	-8.1	1236	0.01
	1237	Stage 4	1238	-8.3	1239	0.01
	1240	Stage 4	1241	-8.5	1242	0.01
	1243	Stage 4	1244	-8.7	1245	0.01
	1246	Stage 4	1247	-8.9	1248	0.01
	1249	Stage 4	1250	-9.1	1251	0.01
	1252	Stage 4	1253	-9.3	1254	0.01
	1255	Stage 4	1256	-9.5	1257	0.01
	1258	Stage 4	1259	-9.7	1260	0.01
	1261	Stage 4	1262	-9.9	1263	0.01
	1264	Stage 4	1265	-10.1	1266	0.01
	1267	Stage 4	1268	-10.3	1269	0.01
	1270	Stage 4	1271	-10.5	1272	0.01
	1273	Stage 4	1274	-10.7	1275	0.01

19	Design Assumption: Nominal 20		Tipo Risultato: Spostamento		21	Muro: LEFT
	22	Stage	23	Z (m)	24	Spostamento (mm)
	1276	Stage 4	1277	-10.9		1278 0.01
	1279	Stage 4	1280	-11.1		1281 0.01
	1282	Stage 4	1283	-11.3		1284 0.01
	1285	Stage 4	1286	-11.5		1287 0.01
	1288	Stage 4	1289	-11.7		1290 0.01
	1291	Stage 4	1292	-11.9		1293 0.01
	1294	Stage 4	1295	-12		1296 0.01
	1297	Stage 4	1298	-12.2		1299 0.01
	1300	Stage 4	1301	-12.4		1302 0.01
	1303	Stage 4	1304	-12.6		1305 0.01
	1306	Stage 4	1307	-12.8		1308 0.01
	1309	Stage 4	1310	-13		1311 0.01
	1312	Stage 4	1313	-13.2		1314 0.01
	1315	Stage 4	1316	-13.4		1317 0.01
	1318	Stage 4	1319	-13.6		1320 0.01
	1321	Stage 4	1322	-13.8		1323 0.01
	1324	Stage 4	1325	-14		1326 0.01
	1327	Stage 4	1328	-14.2		1329 0.01
	1330	Stage 4	1331	-14.4		1332 0.01
	1333	Stage 4	1334	-14.6		1335 0.01
	1336	Stage 4	1337	-14.8		1338 0.01
	1339	Stage 4	1340	-15		1341 0.01
	1342	Stage 4	1343	-15.2		1344 0.01
	1345	Stage 4	1346	-15.4		1347 0.01
	1348	Stage 4	1349	-15.6		1350 0.01
	1351	Stage 4	1352	-15.8		1353 0.01
	1354	Stage 4	1355	-16		1356 0.01
	1357	Stage 4	1358	-16.2		1359 0.01
	1360	Stage 4	1361	-16.4		1362 0.01
	1363	Stage 4	1364	-16.6		1365 0.01
	1366	Stage 4	1367	-16.8		1368 0.01
	1369	Stage 4	1370	-17		1371 0.01
	1372	Stage 4	1373	-17.2		1374 0.01
	1375	Stage 4	1376	-17.4		1377 0.01
	1378	Stage 4	1379	-17.6		1380 0.01
	1381	Stage 4	1382	-17.8		1383 0.01
	1384	Stage 4	1385	-18		1386 0.01
	1387	Stage 4	1388	-18.2		1389 0.01
	1390	Stage 4	1391	-18.4		1392 0.01
	1393	Stage 4	1394	-18.6		1395 0.01
	1396	Stage 4	1397	-18.8		1398 0.01
	1399	Stage 4	1400	-19		1401 0.01
	1402	Stage 4	1403	-19.2		1404 0.01
	1405	Stage 4	1406	-19.4		1407 0.01
	1408	Stage 4	1409	-19.6		1410 0.01
	1411	Stage 4	1412	-19.8		1413 0.01
	1414	Stage 4	1415	-20		1416 0.01
	1417	Stage 4	1418	-20.2		1419 0.01
	1420	Stage 4	1421	-20.4		1422 0.01
	1423	Stage 4	1424	-20.6		1425 0.01
	1426	Stage 4	1427	-20.8		1428 0.01
	1429	Stage 4	1430	-21		1431 0.01
	1432	Stage 4	1433	-21.2		1434 0.01
	1435	Stage 4	1436	-21.4		1437 0.01
	1438	Stage 4	1439	-21.6		1440 0.01
	1441	Stage 4	1442	-21.8		1443 0.01
	1444	Stage 4	1445	-22		1446 0.01
	1447	Stage 4	1448	-22.2		1449 0.01
	1450	Stage 4	1451	-22.4		1452 0.01
	1453	Stage 4	1454	-22.6		1455 0.01

19	Design Assumption: Nominal 20		Tipo Risultato: Spostamento		21	Muro: LEFT	
	22	Stage	23	Z (m)	24	Spostamento (mm)	
	1456	Stage 4	1457	-22.8		1458	0.01
	1459	Stage 4	1460	-23		1461	0.01
	1462	Stage 4	1463	-23.2		1464	0.01
	1465	Stage 4	1466	-23.4		1467	0.01
	1468	Stage 4	1469	-23.6		1470	0.01
	1471	Stage 4	1472	-23.8		1473	0.01
	1474	Stage 4	1475	-24		1476	0.01

Tabella Spostamento Nominal - LEFT Stage: Stage 5

25	Design Assumption: Nominal	26	Tipo Risultato: Spostamento	27	Muro: LEFT
28	Stage	29	Z (m)	30	Spostamento (mm)
1477	Stage 5	1478	0	1479	-7.88
1480	Stage 5	1481	-0.2	1482	-6.29
1483	Stage 5	1484	-0.3	1485	-5.5
1486	Stage 5	1487	-0.5	1488	-3.92
1489	Stage 5	1490	-0.7	1491	-2.41
1492	Stage 5	1493	-0.9	1494	-1.03
1495	Stage 5	1496	-1.1	1497	0.2
1498	Stage 5	1499	-1.3	1500	1.26
1501	Stage 5	1502	-1.5	1503	2.13
1504	Stage 5	1505	-1.7	1506	2.81
1507	Stage 5	1508	-1.9	1509	3.29
1510	Stage 5	1511	-2.1	1512	3.56
1513	Stage 5	1514	-2.3	1515	3.64
1516	Stage 5	1517	-2.5	1518	3.54
1519	Stage 5	1520	-2.7	1521	3.3
1522	Stage 5	1523	-2.9	1524	2.95
1525	Stage 5	1526	-3	1527	2.75
1528	Stage 5	1529	-3.2	1530	2.34
1531	Stage 5	1532	-3.4	1533	1.91
1534	Stage 5	1535	-3.6	1536	1.46
1537	Stage 5	1538	-3.8	1539	1.03
1540	Stage 5	1541	-4	1542	0.63
1543	Stage 5	1544	-4.2	1545	0.32
1546	Stage 5	1547	-4.4	1548	0.12
1549	Stage 5	1550	-4.6	1551	0
1552	Stage 5	1553	-4.8	1554	-0.04
1555	Stage 5	1556	-5	1557	-0.04
1558	Stage 5	1559	-5.2	1560	-0.02
1561	Stage 5	1562	-5.4	1563	-0.01
1564	Stage 5	1565	-5.6	1566	0
1567	Stage 5	1568	-5.8	1569	0.01
1570	Stage 5	1571	-6	1572	0.01
1573	Stage 5	1574	-6.2	1575	0.01
1576	Stage 5	1577	-6.4	1578	0.01
1579	Stage 5	1580	-6.6	1581	0.01
1582	Stage 5	1583	-6.8	1584	0.01
1585	Stage 5	1586	-7	1587	0.01
1588	Stage 5	1589	-7.2	1590	0.01
1591	Stage 5	1592	-7.4	1593	0.01
1594	Stage 5	1595	-7.5	1596	0.01
1597	Stage 5	1598	-7.7	1599	0.01
1600	Stage 5	1601	-7.9	1602	0.01
1603	Stage 5	1604	-8.1	1605	0.01
1606	Stage 5	1607	-8.3	1608	0.01
1609	Stage 5	1610	-8.5	1611	0.01
1612	Stage 5	1613	-8.7	1614	0.01
1615	Stage 5	1616	-8.9	1617	0.01
1618	Stage 5	1619	-9.1	1620	0.01
1621	Stage 5	1622	-9.3	1623	0.01
1624	Stage 5	1625	-9.5	1626	0.01
1627	Stage 5	1628	-9.7	1629	0.01
1630	Stage 5	1631	-9.9	1632	0.01
1633	Stage 5	1634	-10.1	1635	0.01
1636	Stage 5	1637	-10.3	1638	0.01
1639	Stage 5	1640	-10.5	1641	0.01
1642	Stage 5	1643	-10.7	1644	0.01

25	Design Assumption: Nominal 26		Tipo Risultato: Spostamento 27		Muro: LEFT	
28	Stage	29	Z (m)	30	Spostamento (mm)	
1645	Stage 5	1646	-10.9	1647	0.01	
1648	Stage 5	1649	-11.1	1650	0.01	
1651	Stage 5	1652	-11.3	1653	0.01	
1654	Stage 5	1655	-11.5	1656	0.01	
1657	Stage 5	1658	-11.7	1659	0.01	
1660	Stage 5	1661	-11.9	1662	0.01	
1663	Stage 5	1664	-12	1665	0.01	
1666	Stage 5	1667	-12.2	1668	0.01	
1669	Stage 5	1670	-12.4	1671	0.01	
1672	Stage 5	1673	-12.6	1674	0.01	
1675	Stage 5	1676	-12.8	1677	0.01	
1678	Stage 5	1679	-13	1680	0.01	
1681	Stage 5	1682	-13.2	1683	0.01	
1684	Stage 5	1685	-13.4	1686	0.01	
1687	Stage 5	1688	-13.6	1689	0.01	
1690	Stage 5	1691	-13.8	1692	0.01	
1693	Stage 5	1694	-14	1695	0.01	
1696	Stage 5	1697	-14.2	1698	0.01	
1699	Stage 5	1700	-14.4	1701	0.01	
1702	Stage 5	1703	-14.6	1704	0.01	
1705	Stage 5	1706	-14.8	1707	0.01	
1708	Stage 5	1709	-15	1710	0.01	
1711	Stage 5	1712	-15.2	1713	0.01	
1714	Stage 5	1715	-15.4	1716	0.01	
1717	Stage 5	1718	-15.6	1719	0.01	
1720	Stage 5	1721	-15.8	1722	0.01	
1723	Stage 5	1724	-16	1725	0.01	
1726	Stage 5	1727	-16.2	1728	0.01	
1729	Stage 5	1730	-16.4	1731	0.01	
1732	Stage 5	1733	-16.6	1734	0.01	
1735	Stage 5	1736	-16.8	1737	0.01	
1738	Stage 5	1739	-17	1740	0.01	
1741	Stage 5	1742	-17.2	1743	0.01	
1744	Stage 5	1745	-17.4	1746	0.01	
1747	Stage 5	1748	-17.6	1749	0.01	
1750	Stage 5	1751	-17.8	1752	0.01	
1753	Stage 5	1754	-18	1755	0.01	
1756	Stage 5	1757	-18.2	1758	0.01	
1759	Stage 5	1760	-18.4	1761	0.01	
1762	Stage 5	1763	-18.6	1764	0.01	
1765	Stage 5	1766	-18.8	1767	0.01	
1768	Stage 5	1769	-19	1770	0.01	
1771	Stage 5	1772	-19.2	1773	0.01	
1774	Stage 5	1775	-19.4	1776	0.01	
1777	Stage 5	1778	-19.6	1779	0.01	
1780	Stage 5	1781	-19.8	1782	0.01	
1783	Stage 5	1784	-20	1785	0.01	
1786	Stage 5	1787	-20.2	1788	0.01	
1789	Stage 5	1790	-20.4	1791	0.01	
1792	Stage 5	1793	-20.6	1794	0.01	
1795	Stage 5	1796	-20.8	1797	0.01	
1798	Stage 5	1799	-21	1800	0.01	
1801	Stage 5	1802	-21.2	1803	0.01	
1804	Stage 5	1805	-21.4	1806	0.01	
1807	Stage 5	1808	-21.6	1809	0.01	
1810	Stage 5	1811	-21.8	1812	0.01	
1813	Stage 5	1814	-22	1815	0.01	
1816	Stage 5	1817	-22.2	1818	0.01	
1819	Stage 5	1820	-22.4	1821	0.01	
1822	Stage 5	1823	-22.6	1824	0.01	

25	Design Assumption: Nominal 26		Tipo Risultato: Spostamento		27	Muro: LEFT	
28	Stage	29	Z (m)	30	Spostamento (mm)		
1825	Stage 5	1826	-22.8	1827	0.01		
1828	Stage 5	1829	-23	1830	0.01		
1831	Stage 5	1832	-23.2	1833	0.01		
1834	Stage 5	1835	-23.4	1836	0.01		
1837	Stage 5	1838	-23.6	1839	0.01		
1840	Stage 5	1841	-23.8	1842	0.01		
1843	Stage 5	1844	-24	1845	0.01		

Tabella Spostamento Nominal - LEFT Stage: Stage 6

31	Design Assumption: Nominal		Tipo Risultato: Spostamento		33	Muro: LEFT
34	Stage	35	Z (m)	36	Spostamento (mm)	
1846	Stage 6	1847	0	1848	-7.94	
1849	Stage 6	1850	-0.2	1851	-6.37	
1852	Stage 6	1853	-0.3	1854	-5.58	
1855	Stage 6	1856	-0.5	1857	-4.02	
1858	Stage 6	1859	-0.7	1860	-2.53	
1861	Stage 6	1862	-0.9	1863	-1.16	
1864	Stage 6	1865	-1.1	1866	0.06	
1867	Stage 6	1868	-1.3	1869	1.12	
1870	Stage 6	1871	-1.5	1872	2.01	
1873	Stage 6	1874	-1.7	1875	2.73	
1876	Stage 6	1877	-1.9	1878	3.28	
1879	Stage 6	1880	-2.1	1881	3.66	
1882	Stage 6	1883	-2.3	1884	3.9	
1885	Stage 6	1886	-2.5	1887	4.01	
1888	Stage 6	1889	-2.7	1890	4.03	
1891	Stage 6	1892	-2.9	1893	4	
1894	Stage 6	1895	-3	1896	3.98	
1897	Stage 6	1898	-3.2	1899	3.97	
1900	Stage 6	1901	-3.4	1902	3.97	
1903	Stage 6	1904	-3.6	1905	3.95	
1906	Stage 6	1907	-3.8	1908	3.9	
1909	Stage 6	1910	-4	1911	3.83	
1912	Stage 6	1913	-4.2	1914	3.72	
1915	Stage 6	1916	-4.4	1917	3.59	
1918	Stage 6	1919	-4.6	1920	3.44	
1921	Stage 6	1922	-4.8	1923	3.26	
1924	Stage 6	1925	-5	1926	3.06	
1927	Stage 6	1928	-5.2	1929	2.86	
1930	Stage 6	1931	-5.4	1932	2.64	
1933	Stage 6	1934	-5.6	1935	2.41	
1936	Stage 6	1937	-5.8	1938	2.18	
1939	Stage 6	1940	-6	1941	1.94	
1942	Stage 6	1943	-6.2	1944	1.7	
1945	Stage 6	1946	-6.4	1947	1.47	
1948	Stage 6	1949	-6.6	1950	1.25	
1951	Stage 6	1952	-6.8	1953	1.04	
1954	Stage 6	1955	-7	1956	0.83	
1957	Stage 6	1958	-7.2	1959	0.65	
1960	Stage 6	1961	-7.4	1962	0.48	
1963	Stage 6	1964	-7.5	1965	0.41	
1966	Stage 6	1967	-7.7	1968	0.28	
1969	Stage 6	1970	-7.9	1971	0.17	
1972	Stage 6	1973	-8.1	1974	0.1	
1975	Stage 6	1976	-8.3	1977	0.05	
1978	Stage 6	1979	-8.5	1980	0.03	
1981	Stage 6	1982	-8.7	1983	0.03	
1984	Stage 6	1985	-8.9	1986	0.03	
1987	Stage 6	1988	-9.1	1989	0.03	
1990	Stage 6	1991	-9.3	1992	0.03	
1993	Stage 6	1994	-9.5	1995	0.03	
1996	Stage 6	1997	-9.7	1998	0.04	
1999	Stage 6	2000	-9.9	2001	0.03	
2002	Stage 6	2003	-10.1	2004	0.03	
2005	Stage 6	2006	-10.3	2007	0.03	
2008	Stage 6	2009	-10.5	2010	0.03	
2011	Stage 6	2012	-10.7	2013	0.03	

31	Design Assumption: Nominal		32		33	
	34	Stage	35	Z (m)	36	Muro: LEFT Spostamento (mm)
	2014	Stage 6	2015	-10.9		2016 0.03
	2017	Stage 6	2018	-11.1		2019 0.03
	2020	Stage 6	2021	-11.3		2022 0.03
	2023	Stage 6	2024	-11.5		2025 0.03
	2026	Stage 6	2027	-11.7		2028 0.03
	2029	Stage 6	2030	-11.9		2031 0.03
	2032	Stage 6	2033	-12		2034 0.03
	2035	Stage 6	2036	-12.2		2037 0.03
	2038	Stage 6	2039	-12.4		2040 0.03
	2041	Stage 6	2042	-12.6		2043 0.03
	2044	Stage 6	2045	-12.8		2046 0.03
	2047	Stage 6	2048	-13		2049 0.03
	2050	Stage 6	2051	-13.2		2052 0.03
	2053	Stage 6	2054	-13.4		2055 0.03
	2056	Stage 6	2057	-13.6		2058 0.03
	2059	Stage 6	2060	-13.8		2061 0.03
	2062	Stage 6	2063	-14		2064 0.03
	2065	Stage 6	2066	-14.2		2067 0.03
	2068	Stage 6	2069	-14.4		2070 0.03
	2071	Stage 6	2072	-14.6		2073 0.03
	2074	Stage 6	2075	-14.8		2076 0.03
	2077	Stage 6	2078	-15		2079 0.03
	2080	Stage 6	2081	-15.2		2082 0.03
	2083	Stage 6	2084	-15.4		2085 0.03
	2086	Stage 6	2087	-15.6		2088 0.03
	2089	Stage 6	2090	-15.8		2091 0.03
	2092	Stage 6	2093	-16		2094 0.03
	2095	Stage 6	2096	-16.2		2097 0.03
	2098	Stage 6	2099	-16.4		2100 0.03
	2101	Stage 6	2102	-16.6		2103 0.03
	2104	Stage 6	2105	-16.8		2106 0.03
	2107	Stage 6	2108	-17		2109 0.03
	2110	Stage 6	2111	-17.2		2112 0.03
	2113	Stage 6	2114	-17.4		2115 0.03
	2116	Stage 6	2117	-17.6		2118 0.03
	2119	Stage 6	2120	-17.8		2121 0.03
	2122	Stage 6	2123	-18		2124 0.03
	2125	Stage 6	2126	-18.2		2127 0.03
	2128	Stage 6	2129	-18.4		2130 0.03
	2131	Stage 6	2132	-18.6		2133 0.03
	2134	Stage 6	2135	-18.8		2136 0.03
	2137	Stage 6	2138	-19		2139 0.03
	2140	Stage 6	2141	-19.2		2142 0.03
	2143	Stage 6	2144	-19.4		2145 0.03
	2146	Stage 6	2147	-19.6		2148 0.03
	2149	Stage 6	2150	-19.8		2151 0.03
	2152	Stage 6	2153	-20		2154 0.03
	2155	Stage 6	2156	-20.2		2157 0.03
	2158	Stage 6	2159	-20.4		2160 0.03
	2161	Stage 6	2162	-20.6		2163 0.03
	2164	Stage 6	2165	-20.8		2166 0.03
	2167	Stage 6	2168	-21		2169 0.03
	2170	Stage 6	2171	-21.2		2172 0.03
	2173	Stage 6	2174	-21.4		2175 0.03
	2176	Stage 6	2177	-21.6		2178 0.03
	2179	Stage 6	2180	-21.8		2181 0.03
	2182	Stage 6	2183	-22		2184 0.03
	2185	Stage 6	2186	-22.2		2187 0.03
	2188	Stage 6	2189	-22.4		2190 0.03
	2191	Stage 6	2192	-22.6		2193 0.03

31	Design Assumption: Nominal		Tipo Risultato: Spostamento		33	Muro: LEFT	
34	Stage		35	Z (m)	36	Spostamento (mm)	
2194	Stage 6		2195	-22.8	2196	0.03	
2197	Stage 6		2198	-23	2199	0.03	
2200	Stage 6		2201	-23.2	2202	0.03	
2203	Stage 6		2204	-23.4	2205	0.03	
2206	Stage 6		2207	-23.6	2208	0.03	
2209	Stage 6		2210	-23.8	2211	0.03	
2212	Stage 6		2213	-24	2214	0.03	

Tabella Spostamento Nominal - LEFT Stage: Stage 7

37	Design Assumption: Nominal 38		Tipo Risultato: Spostamento		39	Muro: LEFT
40	Stage	41	Z (m)	42	Spostamento (mm)	
2215	Stage 7	2216	0		2217	-7.94
2218	Stage 7	2219	-0.2		2220	-6.37
2221	Stage 7	2222	-0.3		2223	-5.58
2224	Stage 7	2225	-0.5		2226	-4.03
2227	Stage 7	2228	-0.7		2229	-2.54
2230	Stage 7	2231	-0.9		2232	-1.17
2233	Stage 7	2234	-1.1		2235	0.05
2236	Stage 7	2237	-1.3		2238	1.12
2239	Stage 7	2240	-1.5		2241	2.01
2242	Stage 7	2243	-1.7		2244	2.73
2245	Stage 7	2246	-1.9		2247	3.28
2248	Stage 7	2249	-2.1		2250	3.66
2251	Stage 7	2252	-2.3		2253	3.9
2254	Stage 7	2255	-2.5		2256	4.02
2257	Stage 7	2258	-2.7		2259	4.04
2260	Stage 7	2261	-2.9		2262	4.02
2263	Stage 7	2264	-3		2265	4.01
2266	Stage 7	2267	-3.2		2268	4
2269	Stage 7	2270	-3.4		2271	4
2272	Stage 7	2273	-3.6		2274	3.99
2275	Stage 7	2276	-3.8		2277	3.96
2278	Stage 7	2279	-4		2280	3.89
2281	Stage 7	2282	-4.2		2283	3.79
2284	Stage 7	2285	-4.4		2286	3.66
2287	Stage 7	2288	-4.6		2289	3.51
2290	Stage 7	2291	-4.8		2292	3.34
2293	Stage 7	2294	-5		2295	3.15
2296	Stage 7	2297	-5.2		2298	2.94
2299	Stage 7	2300	-5.4		2301	2.72
2302	Stage 7	2303	-5.6		2304	2.48
2305	Stage 7	2306	-5.8		2307	2.25
2308	Stage 7	2309	-6		2310	2
2311	Stage 7	2312	-6.2		2313	1.75
2314	Stage 7	2315	-6.4		2316	1.51
2317	Stage 7	2318	-6.6		2319	1.26
2320	Stage 7	2321	-6.8		2322	1.03
2323	Stage 7	2324	-7		2325	0.8
2326	Stage 7	2327	-7.2		2328	0.59
2329	Stage 7	2330	-7.4		2331	0.4
2332	Stage 7	2333	-7.5		2334	0.32
2335	Stage 7	2336	-7.7		2337	0.2
2338	Stage 7	2339	-7.9		2340	0.12
2341	Stage 7	2342	-8.1		2343	0.07
2344	Stage 7	2345	-8.3		2346	0.04
2347	Stage 7	2348	-8.5		2349	0.03
2350	Stage 7	2351	-8.7		2352	0.03
2353	Stage 7	2354	-8.9		2355	0.03
2356	Stage 7	2357	-9.1		2358	0.03
2359	Stage 7	2360	-9.3		2361	0.03
2362	Stage 7	2363	-9.5		2364	0.04
2365	Stage 7	2366	-9.7		2367	0.04
2368	Stage 7	2369	-9.9		2370	0.03
2371	Stage 7	2372	-10.1		2373	0.03
2374	Stage 7	2375	-10.3		2376	0.03
2377	Stage 7	2378	-10.5		2379	0.03
2380	Stage 7	2381	-10.7		2382	0.03

37	Design Assumption: Nominal 38		Tipo Risultato: Spostamento		39	Muro: LEFT
40	Stage	41	Z (m)	42	Spostamento (mm)	
2383	Stage 7	2384	-10.9	2385	0.03	
2386	Stage 7	2387	-11.1	2388	0.03	
2389	Stage 7	2390	-11.3	2391	0.03	
2392	Stage 7	2393	-11.5	2394	0.03	
2395	Stage 7	2396	-11.7	2397	0.03	
2398	Stage 7	2399	-11.9	2400	0.03	
2401	Stage 7	2402	-12	2403	0.03	
2404	Stage 7	2405	-12.2	2406	0.03	
2407	Stage 7	2408	-12.4	2409	0.03	
2410	Stage 7	2411	-12.6	2412	0.03	
2413	Stage 7	2414	-12.8	2415	0.03	
2416	Stage 7	2417	-13	2418	0.03	
2419	Stage 7	2420	-13.2	2421	0.03	
2422	Stage 7	2423	-13.4	2424	0.03	
2425	Stage 7	2426	-13.6	2427	0.03	
2428	Stage 7	2429	-13.8	2430	0.03	
2431	Stage 7	2432	-14	2433	0.03	
2434	Stage 7	2435	-14.2	2436	0.03	
2437	Stage 7	2438	-14.4	2439	0.03	
2440	Stage 7	2441	-14.6	2442	0.03	
2443	Stage 7	2444	-14.8	2445	0.03	
2446	Stage 7	2447	-15	2448	0.03	
2449	Stage 7	2450	-15.2	2451	0.03	
2452	Stage 7	2453	-15.4	2454	0.03	
2455	Stage 7	2456	-15.6	2457	0.03	
2458	Stage 7	2459	-15.8	2460	0.03	
2461	Stage 7	2462	-16	2463	0.03	
2464	Stage 7	2465	-16.2	2466	0.03	
2467	Stage 7	2468	-16.4	2469	0.03	
2470	Stage 7	2471	-16.6	2472	0.03	
2473	Stage 7	2474	-16.8	2475	0.03	
2476	Stage 7	2477	-17	2478	0.03	
2479	Stage 7	2480	-17.2	2481	0.03	
2482	Stage 7	2483	-17.4	2484	0.03	
2485	Stage 7	2486	-17.6	2487	0.03	
2488	Stage 7	2489	-17.8	2490	0.03	
2491	Stage 7	2492	-18	2493	0.03	
2494	Stage 7	2495	-18.2	2496	0.03	
2497	Stage 7	2498	-18.4	2499	0.03	
2500	Stage 7	2501	-18.6	2502	0.03	
2503	Stage 7	2504	-18.8	2505	0.03	
2506	Stage 7	2507	-19	2508	0.03	
2509	Stage 7	2510	-19.2	2511	0.03	
2512	Stage 7	2513	-19.4	2514	0.03	
2515	Stage 7	2516	-19.6	2517	0.03	
2518	Stage 7	2519	-19.8	2520	0.03	
2521	Stage 7	2522	-20	2523	0.03	
2524	Stage 7	2525	-20.2	2526	0.03	
2527	Stage 7	2528	-20.4	2529	0.03	
2530	Stage 7	2531	-20.6	2532	0.03	
2533	Stage 7	2534	-20.8	2535	0.03	
2536	Stage 7	2537	-21	2538	0.03	
2539	Stage 7	2540	-21.2	2541	0.03	
2542	Stage 7	2543	-21.4	2544	0.03	
2545	Stage 7	2546	-21.6	2547	0.03	
2548	Stage 7	2549	-21.8	2550	0.03	
2551	Stage 7	2552	-22	2553	0.03	
2554	Stage 7	2555	-22.2	2556	0.03	
2557	Stage 7	2558	-22.4	2559	0.03	
2560	Stage 7	2561	-22.6	2562	0.03	

37	Design Assumption: Nominal		Tipo Risultato: Spostamento		39	Muro: LEFT	
40	Stage	38	41	Z (m)	42	Spostamento (mm)	
2563	Stage 7		2564	-22.8		2565	0.03
2566	Stage 7		2567	-23		2568	0.03
2569	Stage 7		2570	-23.2		2571	0.03
2572	Stage 7		2573	-23.4		2574	0.03
2575	Stage 7		2576	-23.6		2577	0.03
2578	Stage 7		2579	-23.8		2580	0.03
2581	Stage 7		2582	-24		2583	0.03

Tabella Spostamento Nominal - LEFT Stage: Stage 8

43	Design Assumption: Nominal44		Tipo Risultato: Spostamento		45	Muro: LEFT
46	Stage	47	Z (m)	48	Spostamento (mm)	
2584	Stage 8	2585	0		2586	-7.94
2587	Stage 8	2588	-0.2		2589	-6.37
2590	Stage 8	2591	-0.3		2592	-5.58
2593	Stage 8	2594	-0.5		2595	-4.03
2596	Stage 8	2597	-0.7		2598	-2.54
2599	Stage 8	2600	-0.9		2601	-1.17
2602	Stage 8	2603	-1.1		2604	0.05
2605	Stage 8	2606	-1.3		2607	1.12
2608	Stage 8	2609	-1.5		2610	2.01
2611	Stage 8	2612	-1.7		2613	2.73
2614	Stage 8	2615	-1.9		2616	3.28
2617	Stage 8	2618	-2.1		2619	3.66
2620	Stage 8	2621	-2.3		2622	3.9
2623	Stage 8	2624	-2.5		2625	4.02
2626	Stage 8	2627	-2.7		2628	4.04
2629	Stage 8	2630	-2.9		2631	4.02
2632	Stage 8	2633	-3		2634	4.01
2635	Stage 8	2636	-3.2		2637	4
2638	Stage 8	2639	-3.4		2640	4.01
2641	Stage 8	2642	-3.6		2643	3.99
2644	Stage 8	2645	-3.8		2646	3.96
2647	Stage 8	2648	-4		2649	3.89
2650	Stage 8	2651	-4.2		2652	3.79
2653	Stage 8	2654	-4.4		2655	3.66
2656	Stage 8	2657	-4.6		2658	3.51
2659	Stage 8	2660	-4.8		2661	3.34
2662	Stage 8	2663	-5		2664	3.15
2665	Stage 8	2666	-5.2		2667	2.94
2668	Stage 8	2669	-5.4		2670	2.72
2671	Stage 8	2672	-5.6		2673	2.49
2674	Stage 8	2675	-5.8		2676	2.25
2677	Stage 8	2678	-6		2679	2
2680	Stage 8	2681	-6.2		2682	1.75
2683	Stage 8	2684	-6.4		2685	1.5
2686	Stage 8	2687	-6.6		2688	1.26
2689	Stage 8	2690	-6.8		2691	1.02
2692	Stage 8	2693	-7		2694	0.8
2695	Stage 8	2696	-7.2		2697	0.58
2698	Stage 8	2699	-7.4		2700	0.4
2701	Stage 8	2702	-7.5		2703	0.33
2704	Stage 8	2705	-7.7		2706	0.23
2707	Stage 8	2708	-7.9		2709	0.17
2710	Stage 8	2711	-8.1		2712	0.15
2713	Stage 8	2714	-8.3		2715	0.14
2716	Stage 8	2717	-8.5		2718	0.15
2719	Stage 8	2720	-8.7		2721	0.17
2722	Stage 8	2723	-8.9		2724	0.18
2725	Stage 8	2726	-9.1		2727	0.19
2728	Stage 8	2729	-9.3		2730	0.21
2731	Stage 8	2732	-9.5		2733	0.22
2734	Stage 8	2735	-9.7		2736	0.24
2737	Stage 8	2738	-9.9		2739	0.25
2740	Stage 8	2741	-10.1		2742	0.26
2743	Stage 8	2744	-10.3		2745	0.27
2746	Stage 8	2747	-10.5		2748	0.27
2749	Stage 8	2750	-10.7		2751	0.28

43	Design Assumption: Nominal		44		45	
	46	Stage	47	Z (m)	48	Muro: LEFT Spostamento (mm)
	2752	Stage 8	2753	-10.9	2754	0.28
	2755	Stage 8	2756	-11.1	2757	0.28
	2758	Stage 8	2759	-11.3	2760	0.27
	2761	Stage 8	2762	-11.5	2763	0.27
	2764	Stage 8	2765	-11.7	2766	0.25
	2767	Stage 8	2768	-11.9	2769	0.24
	2770	Stage 8	2771	-12	2772	0.23
	2773	Stage 8	2774	-12.2	2775	0.2
	2776	Stage 8	2777	-12.4	2778	0.18
	2779	Stage 8	2780	-12.6	2781	0.15
	2782	Stage 8	2783	-12.8	2784	0.12
	2785	Stage 8	2786	-13	2787	0.1
	2788	Stage 8	2789	-13.2	2790	0.09
	2791	Stage 8	2792	-13.4	2793	0.09
	2794	Stage 8	2795	-13.6	2796	0.08
	2797	Stage 8	2798	-13.8	2799	0.08
	2800	Stage 8	2801	-14	2802	0.08
	2803	Stage 8	2804	-14.2	2805	0.08
	2806	Stage 8	2807	-14.4	2808	0.08
	2809	Stage 8	2810	-14.6	2811	0.08
	2812	Stage 8	2813	-14.8	2814	0.08
	2815	Stage 8	2816	-15	2817	0.08
	2818	Stage 8	2819	-15.2	2820	0.08
	2821	Stage 8	2822	-15.4	2823	0.08
	2824	Stage 8	2825	-15.6	2826	0.08
	2827	Stage 8	2828	-15.8	2829	0.08
	2830	Stage 8	2831	-16	2832	0.07
	2833	Stage 8	2834	-16.2	2835	0.07
	2836	Stage 8	2837	-16.4	2838	0.07
	2839	Stage 8	2840	-16.6	2841	0.07
	2842	Stage 8	2843	-16.8	2844	0.07
	2845	Stage 8	2846	-17	2847	0.07
	2848	Stage 8	2849	-17.2	2850	0.07
	2851	Stage 8	2852	-17.4	2853	0.07
	2854	Stage 8	2855	-17.6	2856	0.07
	2857	Stage 8	2858	-17.8	2859	0.07
	2860	Stage 8	2861	-18	2862	0.07
	2863	Stage 8	2864	-18.2	2865	0.07
	2866	Stage 8	2867	-18.4	2868	0.07
	2869	Stage 8	2870	-18.6	2871	0.07
	2872	Stage 8	2873	-18.8	2874	0.07
	2875	Stage 8	2876	-19	2877	0.07
	2878	Stage 8	2879	-19.2	2880	0.07
	2881	Stage 8	2882	-19.4	2883	0.07
	2884	Stage 8	2885	-19.6	2886	0.07
	2887	Stage 8	2888	-19.8	2889	0.07
	2890	Stage 8	2891	-20	2892	0.07
	2893	Stage 8	2894	-20.2	2895	0.07
	2896	Stage 8	2897	-20.4	2898	0.07
	2899	Stage 8	2900	-20.6	2901	0.07
	2902	Stage 8	2903	-20.8	2904	0.07
	2905	Stage 8	2906	-21	2907	0.07
	2908	Stage 8	2909	-21.2	2910	0.07
	2911	Stage 8	2912	-21.4	2913	0.07
	2914	Stage 8	2915	-21.6	2916	0.07
	2917	Stage 8	2918	-21.8	2919	0.06
	2920	Stage 8	2921	-22	2922	0.06
	2923	Stage 8	2924	-22.2	2925	0.06
	2926	Stage 8	2927	-22.4	2928	0.06
	2929	Stage 8	2930	-22.6	2931	0.06

43	Design Assumption: Nominal		Tipo Risultato: Spostamento		45	Muro: LEFT	
46	Stage	47	Z (m)	48	Spostamento (mm)		
2932	Stage 8	2933	-22.8	2934	0.06		
2935	Stage 8	2936	-23	2937	0.06		
2938	Stage 8	2939	-23.2	2940	0.06		
2941	Stage 8	2942	-23.4	2943	0.06		
2944	Stage 8	2945	-23.6	2946	0.06		
2947	Stage 8	2948	-23.8	2949	0.06		
2950	Stage 8	2951	-24	2952	0.06		

Tabella Spostamento Nominal - LEFT Stage: Stage 9

49	Design Assumption: Nominal 50		Tipo Risultato: Spostamento		51	Muro: LEFT
	52	Stage	53	Z (m)	54	Spostamento (mm)
	2953	Stage 9	2954	0		2955 -7.94
	2956	Stage 9	2957	-0.2		2958 -6.37
	2959	Stage 9	2960	-0.3		2961 -5.58
	2962	Stage 9	2963	-0.5		2964 -4.03
	2965	Stage 9	2966	-0.7		2967 -2.54
	2968	Stage 9	2969	-0.9		2970 -1.17
	2971	Stage 9	2972	-1.1		2973 0.05
	2974	Stage 9	2975	-1.3		2976 1.12
	2977	Stage 9	2978	-1.5		2979 2.01
	2980	Stage 9	2981	-1.7		2982 2.73
	2983	Stage 9	2984	-1.9		2985 3.28
	2986	Stage 9	2987	-2.1		2988 3.66
	2989	Stage 9	2990	-2.3		2991 3.9
	2992	Stage 9	2993	-2.5		2994 4.02
	2995	Stage 9	2996	-2.7		2997 4.04
	2998	Stage 9	2999	-2.9		3000 4.02
	3001	Stage 9	3002	-3		3003 4.01
	3004	Stage 9	3005	-3.2		3006 4
	3007	Stage 9	3008	-3.4		3009 4.01
	3010	Stage 9	3011	-3.6		3012 3.99
	3013	Stage 9	3014	-3.8		3015 3.96
	3016	Stage 9	3017	-4		3018 3.89
	3019	Stage 9	3020	-4.2		3021 3.79
	3022	Stage 9	3023	-4.4		3024 3.66
	3025	Stage 9	3026	-4.6		3027 3.51
	3028	Stage 9	3029	-4.8		3030 3.34
	3031	Stage 9	3032	-5		3033 3.15
	3034	Stage 9	3035	-5.2		3036 2.94
	3037	Stage 9	3038	-5.4		3039 2.72
	3040	Stage 9	3041	-5.6		3042 2.49
	3043	Stage 9	3044	-5.8		3045 2.25
	3046	Stage 9	3047	-6		3048 2
	3049	Stage 9	3050	-6.2		3051 1.75
	3052	Stage 9	3053	-6.4		3054 1.5
	3055	Stage 9	3056	-6.6		3057 1.26
	3058	Stage 9	3059	-6.8		3060 1.02
	3061	Stage 9	3062	-7		3063 0.8
	3064	Stage 9	3065	-7.2		3066 0.58
	3067	Stage 9	3068	-7.4		3069 0.4
	3070	Stage 9	3071	-7.5		3072 0.33
	3073	Stage 9	3074	-7.7		3075 0.23
	3076	Stage 9	3077	-7.9		3078 0.17
	3079	Stage 9	3080	-8.1		3081 0.15
	3082	Stage 9	3083	-8.3		3084 0.14
	3085	Stage 9	3086	-8.5		3087 0.15
	3088	Stage 9	3089	-8.7		3090 0.17
	3091	Stage 9	3092	-8.9		3093 0.19
	3094	Stage 9	3095	-9.1		3096 0.21
	3097	Stage 9	3098	-9.3		3099 0.23
	3100	Stage 9	3101	-9.5		3102 0.25
	3103	Stage 9	3104	-9.7		3105 0.27
	3106	Stage 9	3107	-9.9		3108 0.28
	3109	Stage 9	3110	-10.1		3111 0.3
	3112	Stage 9	3113	-10.3		3114 0.3
	3115	Stage 9	3116	-10.5		3117 0.31
	3118	Stage 9	3119	-10.7		3120 0.31

49	Design Assumption: Nominal 50		Tipo Risultato: Spostamento		51	Muro: LEFT
	52	Stage	53	Z (m)	54	Spostamento (mm)
	3121	Stage 9	3122	-10.9		3123 0.29
	3124	Stage 9	3125	-11.1		3126 0.28
	3127	Stage 9	3128	-11.3		3129 0.25
	3130	Stage 9	3131	-11.5		3132 0.21
	3133	Stage 9	3134	-11.7		3135 0.16
	3136	Stage 9	3137	-11.9		3138 0.12
	3139	Stage 9	3140	-12		3141 0.11
	3142	Stage 9	3143	-12.2		3144 0.1
	3145	Stage 9	3146	-12.4		3147 0.11
	3148	Stage 9	3149	-12.6		3150 0.11
	3151	Stage 9	3152	-12.8		3153 0.1
	3154	Stage 9	3155	-13		3156 0.1
	3157	Stage 9	3158	-13.2		3159 0.1
	3160	Stage 9	3161	-13.4		3162 0.09
	3163	Stage 9	3164	-13.6		3165 0.09
	3166	Stage 9	3167	-13.8		3168 0.09
	3169	Stage 9	3170	-14		3171 0.08
	3172	Stage 9	3173	-14.2		3174 0.08
	3175	Stage 9	3176	-14.4		3177 0.08
	3178	Stage 9	3179	-14.6		3180 0.08
	3181	Stage 9	3182	-14.8		3183 0.08
	3184	Stage 9	3185	-15		3186 0.08
	3187	Stage 9	3188	-15.2		3189 0.08
	3190	Stage 9	3191	-15.4		3192 0.08
	3193	Stage 9	3194	-15.6		3195 0.08
	3196	Stage 9	3197	-15.8		3198 0.07
	3199	Stage 9	3200	-16		3201 0.07
	3202	Stage 9	3203	-16.2		3204 0.07
	3205	Stage 9	3206	-16.4		3207 0.07
	3208	Stage 9	3209	-16.6		3210 0.07
	3211	Stage 9	3212	-16.8		3213 0.07
	3214	Stage 9	3215	-17		3216 0.07
	3217	Stage 9	3218	-17.2		3219 0.07
	3220	Stage 9	3221	-17.4		3222 0.07
	3223	Stage 9	3224	-17.6		3225 0.07
	3226	Stage 9	3227	-17.8		3228 0.07
	3229	Stage 9	3230	-18		3231 0.07
	3232	Stage 9	3233	-18.2		3234 0.07
	3235	Stage 9	3236	-18.4		3237 0.07
	3238	Stage 9	3239	-18.6		3240 0.07
	3241	Stage 9	3242	-18.8		3243 0.07
	3244	Stage 9	3245	-19		3246 0.07
	3247	Stage 9	3248	-19.2		3249 0.07
	3250	Stage 9	3251	-19.4		3252 0.07
	3253	Stage 9	3254	-19.6		3255 0.07
	3256	Stage 9	3257	-19.8		3258 0.07
	3259	Stage 9	3260	-20		3261 0.07
	3262	Stage 9	3263	-20.2		3264 0.07
	3265	Stage 9	3266	-20.4		3267 0.07
	3268	Stage 9	3269	-20.6		3270 0.07
	3271	Stage 9	3272	-20.8		3273 0.07
	3274	Stage 9	3275	-21		3276 0.07
	3277	Stage 9	3278	-21.2		3279 0.07
	3280	Stage 9	3281	-21.4		3282 0.07
	3283	Stage 9	3284	-21.6		3285 0.07
	3286	Stage 9	3287	-21.8		3288 0.06
	3289	Stage 9	3290	-22		3291 0.06
	3292	Stage 9	3293	-22.2		3294 0.06
	3295	Stage 9	3296	-22.4		3297 0.06
	3298	Stage 9	3299	-22.6		3300 0.06

49	Design Assumption: Nominal 50		Tipo Risultato: Spostamento		51	Muro: LEFT
	52	Stage	53	Z (m)	54	Spostamento (mm)
	3301	Stage 9	3302	-22.8	3303	0.06
	3304	Stage 9	3305	-23	3306	0.06
	3307	Stage 9	3308	-23.2	3309	0.06
	3310	Stage 9	3311	-23.4	3312	0.06
	3313	Stage 9	3314	-23.6	3315	0.06
	3316	Stage 9	3317	-23.8	3318	0.06
	3319	Stage 9	3320	-24	3321	0.06

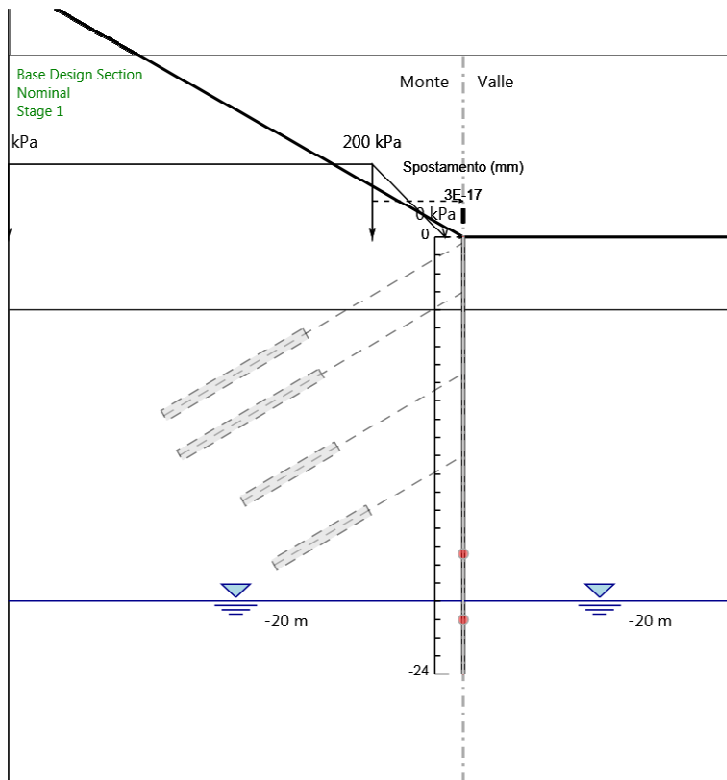
Tabella Spostamento Nominal - LEFT Stage: Stage 10

55	Design Assumption: Nominal		Tipo Risultato: Spostamento		57	Muro: LEFT
58	Stage	59	Z (m)	60	Spostamento (mm)	
3322	Stage 10	3323	0	3324	-7.94	
3325	Stage 10	3326	-0.2	3327	-6.37	
3328	Stage 10	3329	-0.3	3330	-5.58	
3331	Stage 10	3332	-0.5	3333	-4.03	
3334	Stage 10	3335	-0.7	3336	-2.54	
3337	Stage 10	3338	-0.9	3339	-1.17	
3340	Stage 10	3341	-1.1	3342	0.05	
3343	Stage 10	3344	-1.3	3345	1.12	
3346	Stage 10	3347	-1.5	3348	2.01	
3349	Stage 10	3350	-1.7	3351	2.73	
3352	Stage 10	3353	-1.9	3354	3.28	
3355	Stage 10	3356	-2.1	3357	3.66	
3358	Stage 10	3359	-2.3	3360	3.9	
3361	Stage 10	3362	-2.5	3363	4.02	
3364	Stage 10	3365	-2.7	3366	4.04	
3367	Stage 10	3368	-2.9	3369	4.02	
3370	Stage 10	3371	-3	3372	4.01	
3373	Stage 10	3374	-3.2	3375	4	
3376	Stage 10	3377	-3.4	3378	4.01	
3379	Stage 10	3380	-3.6	3381	3.99	
3382	Stage 10	3383	-3.8	3384	3.96	
3385	Stage 10	3386	-4	3387	3.89	
3388	Stage 10	3389	-4.2	3390	3.79	
3391	Stage 10	3392	-4.4	3393	3.66	
3394	Stage 10	3395	-4.6	3396	3.51	
3397	Stage 10	3398	-4.8	3399	3.34	
3400	Stage 10	3401	-5	3402	3.15	
3403	Stage 10	3404	-5.2	3405	2.94	
3406	Stage 10	3407	-5.4	3408	2.72	
3409	Stage 10	3410	-5.6	3411	2.49	
3412	Stage 10	3413	-5.8	3414	2.25	
3415	Stage 10	3416	-6	3417	2	
3418	Stage 10	3419	-6.2	3420	1.75	
3421	Stage 10	3422	-6.4	3423	1.5	
3424	Stage 10	3425	-6.6	3426	1.26	
3427	Stage 10	3428	-6.8	3429	1.02	
3430	Stage 10	3431	-7	3432	0.8	
3433	Stage 10	3434	-7.2	3435	0.58	
3436	Stage 10	3437	-7.4	3438	0.4	
3439	Stage 10	3440	-7.5	3441	0.33	
3442	Stage 10	3443	-7.7	3444	0.23	
3445	Stage 10	3446	-7.9	3447	0.17	
3448	Stage 10	3449	-8.1	3450	0.15	
3451	Stage 10	3452	-8.3	3453	0.14	
3454	Stage 10	3455	-8.5	3456	0.15	
3457	Stage 10	3458	-8.7	3459	0.17	
3460	Stage 10	3461	-8.9	3462	0.19	
3463	Stage 10	3464	-9.1	3465	0.21	
3466	Stage 10	3467	-9.3	3468	0.23	
3469	Stage 10	3470	-9.5	3471	0.25	
3472	Stage 10	3473	-9.7	3474	0.27	
3475	Stage 10	3476	-9.9	3477	0.28	
3478	Stage 10	3479	-10.1	3480	0.3	
3481	Stage 10	3482	-10.3	3483	0.31	
3484	Stage 10	3485	-10.5	3486	0.31	
3487	Stage 10	3488	-10.7	3489	0.3	

55	Design Assumption: Nominal 56		Tipo Risultato: Spostamento		57	Muro: LEFT
58	Stage	59	Z (m)	60	Spostamento (mm)	
3490	Stage 10	3491	-10.9		3492	0.29
3493	Stage 10	3494	-11.1		3495	0.27
3496	Stage 10	3497	-11.3		3498	0.24
3499	Stage 10	3500	-11.5		3501	0.2
3502	Stage 10	3503	-11.7		3504	0.16
3505	Stage 10	3506	-11.9		3507	0.13
3508	Stage 10	3509	-12		3510	0.12
3511	Stage 10	3512	-12.2		3513	0.13
3514	Stage 10	3515	-12.4		3516	0.16
3517	Stage 10	3518	-12.6		3519	0.19
3520	Stage 10	3521	-12.8		3522	0.23
3523	Stage 10	3524	-13		3525	0.26
3526	Stage 10	3527	-13.2		3528	0.29
3529	Stage 10	3530	-13.4		3531	0.31
3532	Stage 10	3533	-13.6		3534	0.34
3535	Stage 10	3536	-13.8		3537	0.35
3538	Stage 10	3539	-14		3540	0.37
3541	Stage 10	3542	-14.2		3543	0.38
3544	Stage 10	3545	-14.4		3546	0.39
3547	Stage 10	3548	-14.6		3549	0.4
3550	Stage 10	3551	-14.8		3552	0.4
3553	Stage 10	3554	-15		3555	0.4
3556	Stage 10	3557	-15.2		3558	0.4
3559	Stage 10	3560	-15.4		3561	0.39
3562	Stage 10	3563	-15.6		3564	0.38
3565	Stage 10	3566	-15.8		3567	0.37
3568	Stage 10	3569	-16		3570	0.35
3571	Stage 10	3572	-16.2		3573	0.32
3574	Stage 10	3575	-16.4		3576	0.3
3577	Stage 10	3578	-16.6		3579	0.27
3580	Stage 10	3581	-16.8		3582	0.23
3583	Stage 10	3584	-17		3585	0.2
3586	Stage 10	3587	-17.2		3588	0.17
3589	Stage 10	3590	-17.4		3591	0.15
3592	Stage 10	3593	-17.6		3594	0.13
3595	Stage 10	3596	-17.8		3597	0.13
3598	Stage 10	3599	-18		3600	0.12
3601	Stage 10	3602	-18.2		3603	0.12
3604	Stage 10	3605	-18.4		3606	0.12
3607	Stage 10	3608	-18.6		3609	0.12
3610	Stage 10	3611	-18.8		3612	0.12
3613	Stage 10	3614	-19		3615	0.12
3616	Stage 10	3617	-19.2		3618	0.12
3619	Stage 10	3620	-19.4		3621	0.12
3622	Stage 10	3623	-19.6		3624	0.12
3625	Stage 10	3626	-19.8		3627	0.11
3628	Stage 10	3629	-20		3630	0.11
3631	Stage 10	3632	-20.2		3633	0.11
3634	Stage 10	3635	-20.4		3636	0.11
3637	Stage 10	3638	-20.6		3639	0.11
3640	Stage 10	3641	-20.8		3642	0.11
3643	Stage 10	3644	-21		3645	0.11
3646	Stage 10	3647	-21.2		3648	0.11
3649	Stage 10	3650	-21.4		3651	0.11
3652	Stage 10	3653	-21.6		3654	0.11
3655	Stage 10	3656	-21.8		3657	0.11
3658	Stage 10	3659	-22		3660	0.11
3661	Stage 10	3662	-22.2		3663	0.11
3664	Stage 10	3665	-22.4		3666	0.11
3667	Stage 10	3668	-22.6		3669	0.11

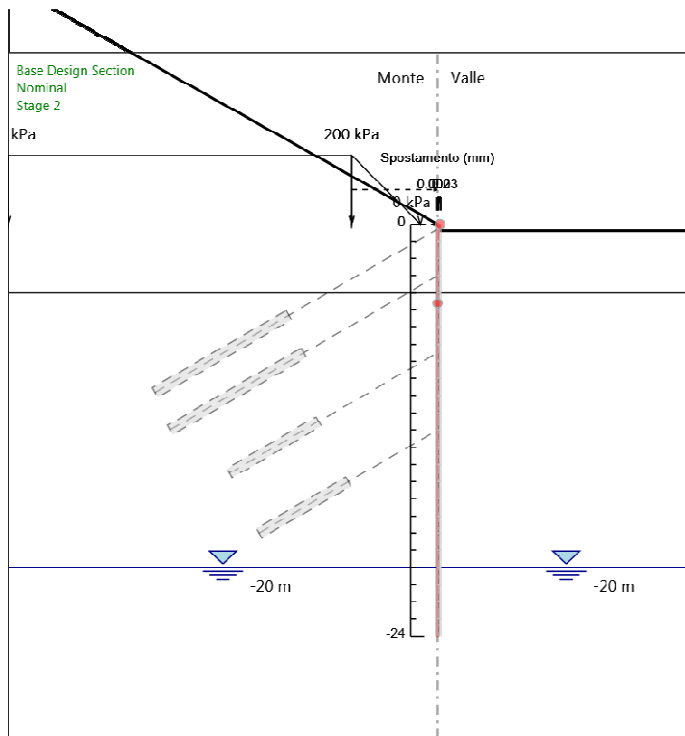
55	Design Assumption: Nominal 56		Tipo Risultato: Spostamento		57	Muro: LEFT	
58	Stage	59	Z (m)	60	Spostamento (mm)		
3670	Stage 10	3671	-22.8	3672	0.11		
3673	Stage 10	3674	-23	3675	0.11		
3676	Stage 10	3677	-23.2	3678	0.11		
3679	Stage 10	3680	-23.4	3681	0.11		
3682	Stage 10	3683	-23.6	3684	0.1		
3685	Stage 10	3686	-23.8	3687	0.1		
3688	Stage 10	3689	-24	3690	0.1		

Grafico Spostamento Nominal - Stage: Stage 1



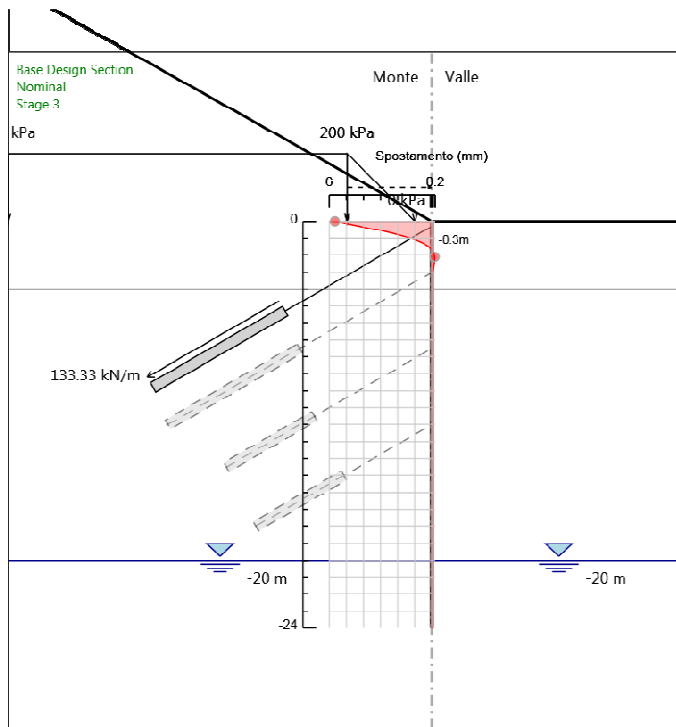
- 1.
2. Design Assumption: Nominal
3. Stage: Stage 1
4. Spostamento

Grafico Spostamento Nominal - Stage: Stage 2



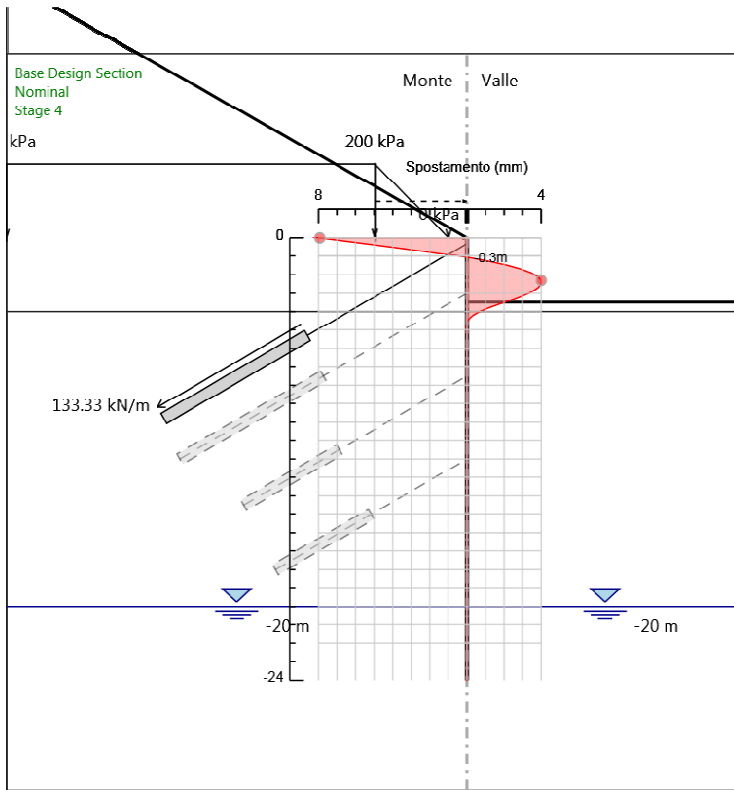
- 5.
6. Design Assumption: Nominal
7. Stage: Stage 2
8. Spostamento

Grafico Spostamento Nominal - Stage: Stage 3



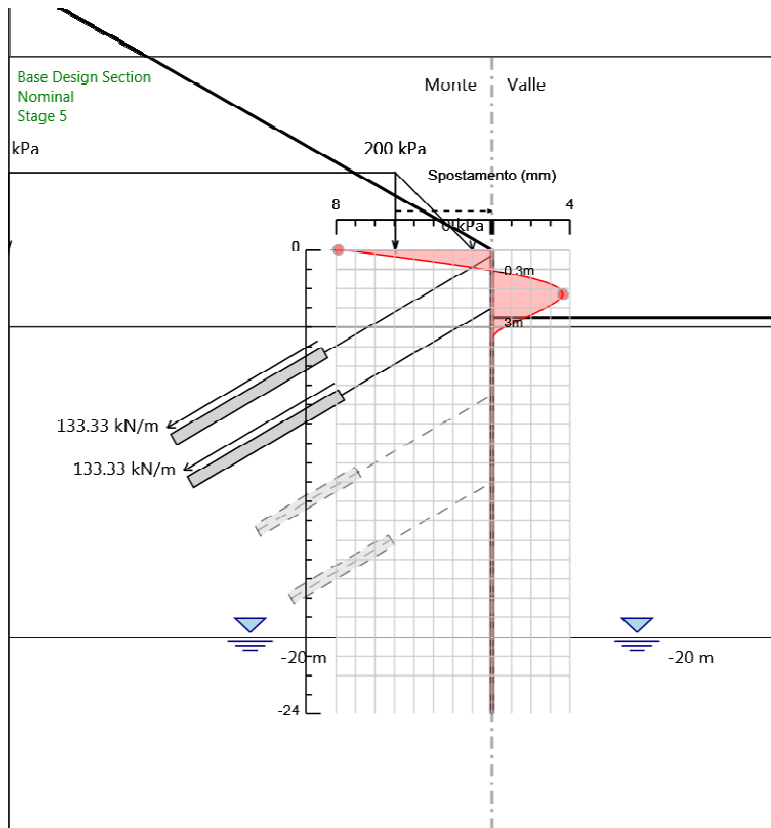
- 9.
- 10. Design Assumption: Nominal
- 11. Stage: Stage 3
- 12. Spostamento

Grafico Spostamento Nominal - Stage: Stage 4



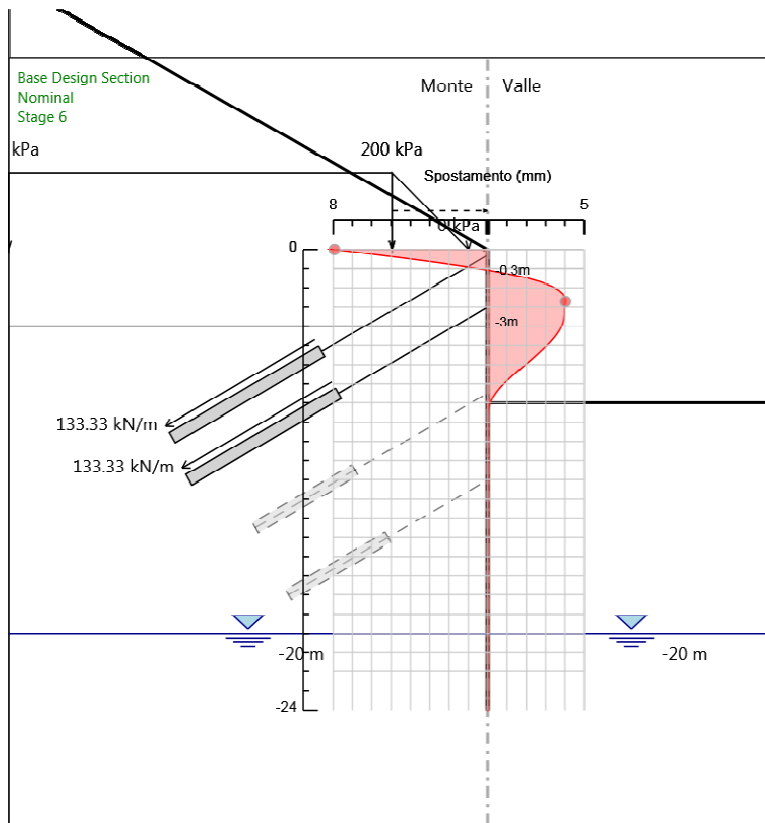
- 13.
- 14. Design Assumption: Nominal
- 15. Stage: Stage 4
- 16. Spostamento

Grafico Spostamento Nominal - Stage: Stage 5



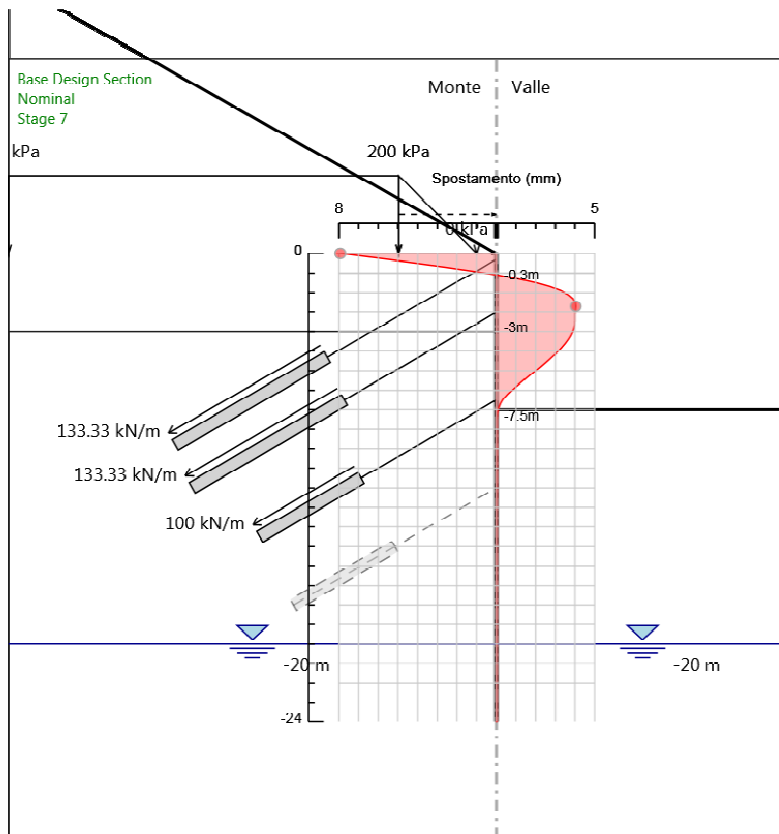
- 17.
- 18. Design Assumption: Nominal
- 19. Stage: Stage 5
- 20. Spostamento

Grafico Spostamento Nominal - Stage: Stage 6



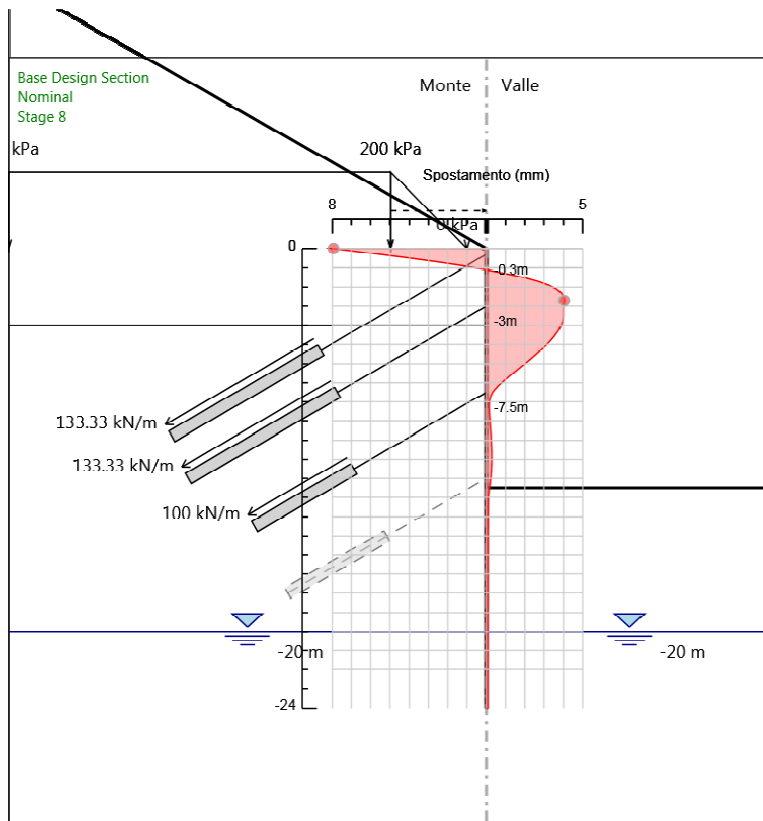
- 21.
- 22. Design Assumption: Nominal
- 23. Stage: Stage 6
- 24. Spostamento

Grafico Spostamento Nominal - Stage: Stage 7



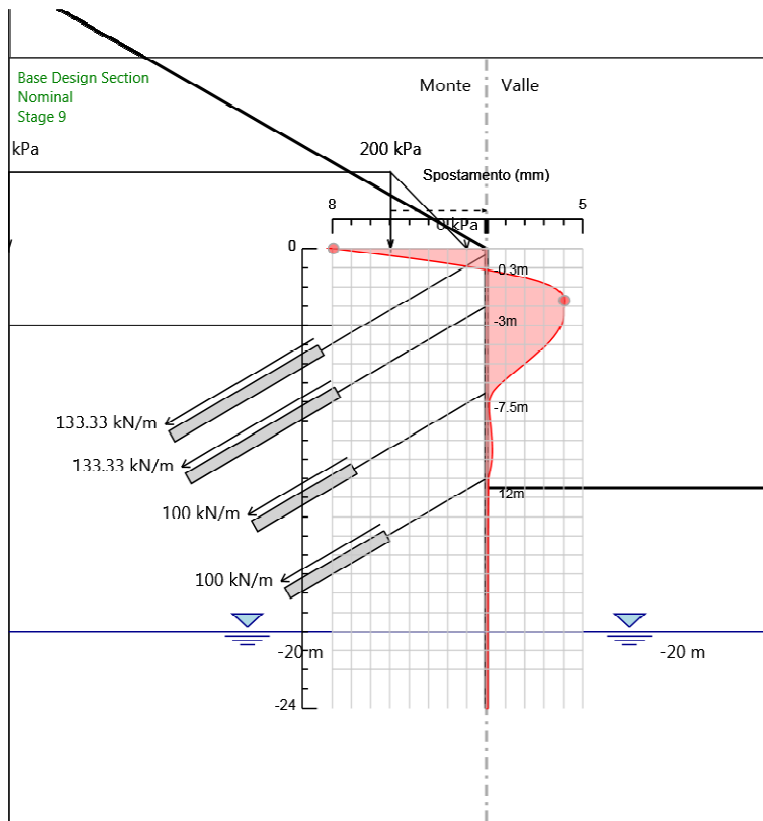
- 25.
- 26. Design Assumption: Nominal
- 27. Stage: Stage 7
- 28. Spostamento

Grafico Spostamento Nominal - Stage: Stage 8



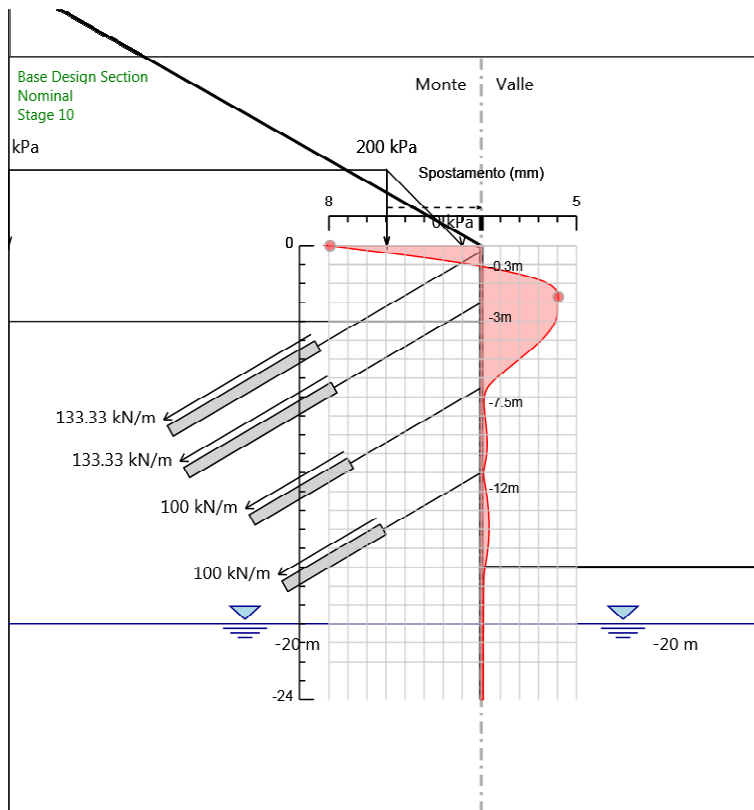
- 29.
- 30. Design Assumption: Nominal
- 31. Stage: Stage 8
- 32. Spostamento

Grafico Spostamento Nominal - Stage: Stage 9



- 33.
- 34. Design Assumption: Nominal
- 35. Stage: Stage 9
- 36. Spostamento

Grafico Spostamento Nominal - Stage: Stage 10



- 37.
- 38. Design Assumption: Nominal
- 39. Stage: Stage 10
- 40. Spostamento

Inviluppi Spostamento Nominal

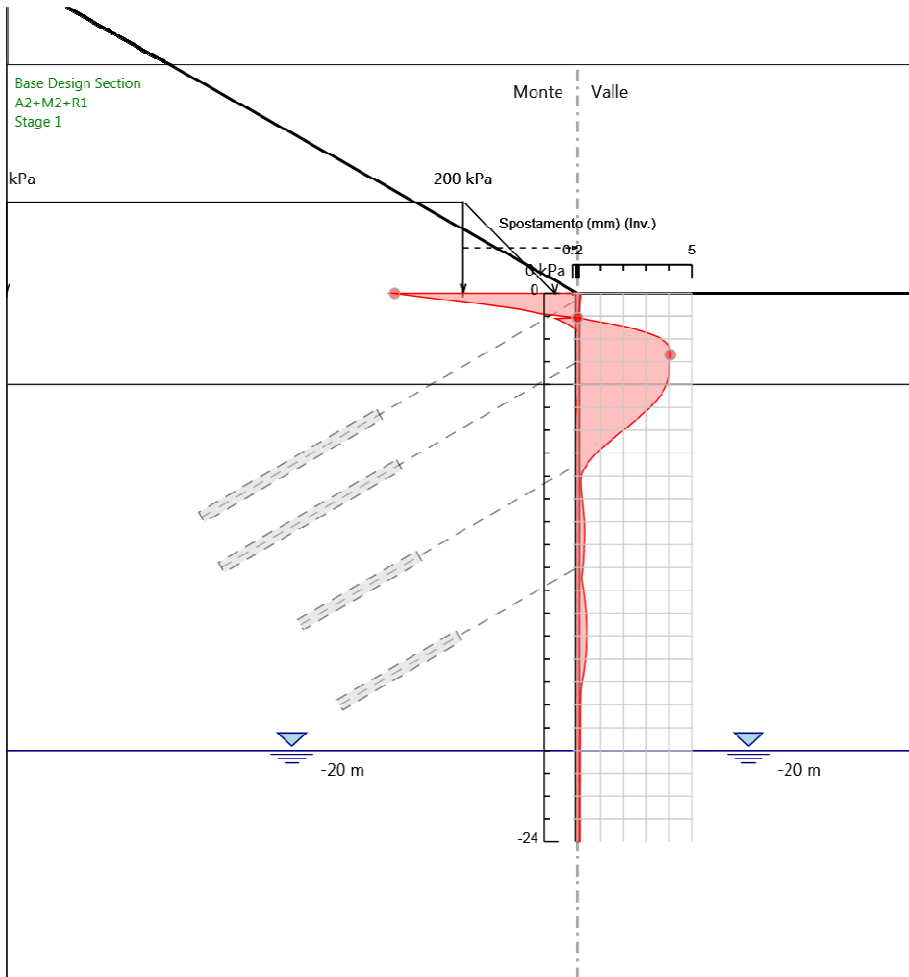
Tabella Inviluppi Spostamento Nominal Left Wall

61	Design Assumption: Nominal 62		Inviluppi: Spostamento		63	Muro: LEFT	
	64	Z (m)	65	Lato sinistro (mm)	66	Lato destro (mm)	
	3691	0	3692	-7.937	3693	0.146	
	3694	-0.2	3695	-6.369	3696	0.122	
	3697	-0.3	3698	-5.584	3699	0.11	
	3700	-0.5	3701	-4.027	3702	0.087	
	3703	-0.7	3704	-2.537	3705	0.064	
	3706	-0.9	3707	-1.579	3708	0.045	
	3709	-1.068	3710	0	3711	0	
	3712	-1.069	3713	0	3714	0	
	3715	-1.1	3716	-0.957	3717	0.199	
	3718	-1.3	3719	-0.493	3720	1.278	
	3721	-1.5	3722	-0.174	3723	2.189	
	3724	-1.7	3725	0	3726	2.919	
	3727	-1.9	3728	0	3729	3.464	
	3730	-2.1	3731	0	3732	3.822	
	3733	-2.3	3734	0	3735	3.998	
	3736	-2.5	3737	0	3738	4.016	
	3739	-2.7	3740	0	3741	4.041	
	3742	-2.9	3743	0	3744	4.019	
	3745	-3	3746	0	3747	4.008	
	3748	-3.2	3749	0	3750	4.003	
	3751	-3.4	3752	0	3753	4.005	
	3754	-3.6	3755	0	3756	3.995	
	3757	-3.8	3758	0	3759	3.958	
	3760	-4	3761	-0.002	3762	3.889	
	3763	-4.2	3764	-0.002	3765	3.79	
	3766	-4.4	3767	-0.001	3768	3.664	
	3769	-4.6	3770	-0.01	3771	3.513	
	3772	-4.8	3773	-0.044	3774	3.341	
	3775	-5	3776	-0.039	3777	3.149	
	3778	-5.2	3779	-0.022	3780	2.941	
	3781	-5.4	3782	-0.006	3783	2.719	
	3784	-5.6	3785	0	3786	2.487	
	3787	-5.8	3788	0	3789	2.246	
	3790	-6	3791	0	3792	2.001	
	3793	-6.2	3794	0	3795	1.754	
	3796	-6.4	3797	0	3798	1.507	
	3799	-6.6	3800	0	3801	1.264	
	3802	-6.8	3803	0	3804	1.035	
	3805	-7	3806	0	3807	0.834	
	3808	-7.2	3809	0	3810	0.649	
	3811	-7.4	3812	0	3813	0.483	
	3814	-7.5	3815	0	3816	0.408	
	3817	-7.7	3818	0	3819	0.276	
	3820	-7.9	3821	0	3822	0.173	
	3823	-8.1	3824	0	3825	0.148	
	3826	-8.3	3827	0	3828	0.145	
	3829	-8.5	3830	0	3831	0.153	
	3832	-8.7	3833	0	3834	0.168	
	3835	-8.9	3836	0	3837	0.187	
	3838	-9.1	3839	0	3840	0.207	
	3841	-9.3	3842	0	3843	0.228	
	3844	-9.5	3845	0	3846	0.248	
	3847	-9.7	3848	0	3849	0.267	

61	Design Assumption: Nominal 62		Inviluppi: Spostamento 63		Muro: LEFT	
64	Z (m)	65	Lato sinistro (mm)	66	Lato destro (mm)	
3850	-9.9	3851	0	3852	0.284	
3853	-10.1	3854	0	3855	0.297	
3856	-10.3	3857	0	3858	0.305	
3859	-10.5	3860	0	3861	0.308	
3862	-10.7	3863	0	3864	0.305	
3865	-10.9	3866	0	3867	0.295	
3868	-11.1	3869	0	3870	0.279	
3871	-11.3	3872	0	3873	0.275	
3874	-11.5	3875	0	3876	0.266	
3877	-11.7	3878	0	3879	0.254	
3880	-11.9	3881	0	3882	0.238	
3883	-12	3884	0	3885	0.228	
3886	-12.2	3887	0	3888	0.205	
3889	-12.4	3890	0	3891	0.177	
3892	-12.6	3893	0	3894	0.192	
3895	-12.8	3896	0	3897	0.227	
3898	-13	3899	0	3900	0.258	
3901	-13.2	3902	0	3903	0.287	
3904	-13.4	3905	0	3906	0.313	
3907	-13.6	3908	0	3909	0.335	
3910	-13.8	3911	0	3912	0.355	
3913	-14	3914	0	3915	0.371	
3916	-14.2	3917	0	3918	0.385	
3919	-14.4	3920	0	3921	0.395	
3922	-14.6	3923	0	3924	0.401	
3925	-14.8	3926	0	3927	0.404	
3928	-15	3929	0	3930	0.404	
3931	-15.2	3932	0	3933	0.4	
3934	-15.4	3935	0	3936	0.392	
3937	-15.6	3938	0	3939	0.381	
3940	-15.8	3941	0	3942	0.366	
3943	-16	3944	0	3945	0.347	
3946	-16.2	3947	0	3948	0.324	
3949	-16.4	3950	0	3951	0.297	
3952	-16.6	3953	0	3954	0.266	
3955	-16.8	3956	0	3957	0.231	
3958	-17	3959	0	3960	0.196	
3961	-17.2	3962	0	3963	0.166	
3964	-17.4	3965	0	3966	0.146	
3967	-17.6	3968	0	3969	0.134	
3970	-17.8	3971	0	3972	0.127	
3973	-18	3974	0	3975	0.124	
3976	-18.2	3977	0	3978	0.123	
3979	-18.4	3980	0	3981	0.122	
3982	-18.6	3983	0	3984	0.121	
3985	-18.8	3986	0	3987	0.12	
3988	-19	3989	0	3990	0.119	
3991	-19.2	3992	0	3993	0.118	
3994	-19.4	3995	0	3996	0.116	
3997	-19.6	3998	0	3999	0.115	
4000	-19.8	4001	0	4002	0.114	
4003	-20	4004	0	4005	0.113	
4006	-20.2	4007	0	4008	0.112	
4009	-20.4	4010	0	4011	0.112	
4012	-20.6	4013	0	4014	0.111	
4015	-20.8	4016	0	4017	0.111	
4018	-21	4019	0	4020	0.11	
4021	-21.2	4022	0	4023	0.11	
4024	-21.4	4025	0	4026	0.109	
4027	-21.6	4028	0	4029	0.109	

61	Design Assumption: Nominal 62		Involuppi: Spostamento 63		Muro: LEFT	
	64	Z (m)	65	Lato sinistro (mm)	66	Lato destro (mm)
	4030	-21.8	4031	0	4032	0.108
	4033	-22	4034	0	4035	0.108
	4036	-22.2	4037	0	4038	0.107
	4039	-22.4	4040	0	4041	0.107
	4042	-22.6	4043	0	4044	0.107
	4045	-22.8	4046	0	4047	0.106
	4048	-23	4049	0	4050	0.106
	4051	-23.2	4052	0	4053	0.105
	4054	-23.4	4055	0	4056	0.105
	4057	-23.6	4058	0	4059	0.105
	4060	-23.8	4061	0	4062	0.104
	4063	-24	4064	0	4065	0.104

Grafico Inviluppi Spostamento



- 41.
- 42. Spostamento

Risultati Paratia

Tabella Risultati Paratia Nominal - Stage: Stage 1

67	Design Assumption: Nominal 68		Risultati Paratia		69	Muro: LEFT		70	
	71	Stage	72	z (m)	73	Momento (kN*m/m) 74	74	Taglio (kN/m)	
	4066	Stage 1	4067	0		4068	0	4069	0
	4070	Stage 1	4071	-0.2		4072	0	4073	0
	4074	Stage 1	4075	-0.3		4076	0	4077	0
	4078	Stage 1	4079	-0.5		4080	0	4081	0
	4082	Stage 1	4083	-0.7		4084	0	4085	0
	4086	Stage 1	4087	-0.9		4088	0	4089	0
	4090	Stage 1	4091	-1.1		4092	0	4093	0
	4094	Stage 1	4095	-1.3		4096	0	4097	0
	4098	Stage 1	4099	-1.5		4100	0	4101	0
	4102	Stage 1	4103	-1.7		4104	0	4105	0
	4106	Stage 1	4107	-1.9		4108	0	4109	0
	4110	Stage 1	4111	-2.1		4112	0	4113	0
	4114	Stage 1	4115	-2.3		4116	0	4117	0
	4118	Stage 1	4119	-2.5		4120	0	4121	0
	4122	Stage 1	4123	-2.7		4124	0	4125	0
	4126	Stage 1	4127	-2.9		4128	0	4129	0
	4130	Stage 1	4131	-3		4132	0	4133	0
	4134	Stage 1	4135	-3.2		4136	0	4137	0
	4138	Stage 1	4139	-3.4		4140	0	4141	0
	4142	Stage 1	4143	-3.6		4144	0	4145	0
	4146	Stage 1	4147	-3.8		4148	0	4149	0
	4150	Stage 1	4151	-4		4152	0	4153	0
	4154	Stage 1	4155	-4.2		4156	0	4157	0
	4158	Stage 1	4159	-4.4		4160	0	4161	0
	4162	Stage 1	4163	-4.6		4164	0	4165	0
	4166	Stage 1	4167	-4.8		4168	0	4169	0
	4170	Stage 1	4171	-5		4172	0	4173	0
	4174	Stage 1	4175	-5.2		4176	0	4177	0
	4178	Stage 1	4179	-5.4		4180	0	4181	0
	4182	Stage 1	4183	-5.6		4184	0	4185	0
	4186	Stage 1	4187	-5.8		4188	0	4189	0
	4190	Stage 1	4191	-6		4192	0	4193	0
	4194	Stage 1	4195	-6.2		4196	0	4197	0
	4198	Stage 1	4199	-6.4		4200	0	4201	0
	4202	Stage 1	4203	-6.6		4204	0	4205	0
	4206	Stage 1	4207	-6.8		4208	0	4209	0
	4210	Stage 1	4211	-7		4212	0	4213	0
	4214	Stage 1	4215	-7.2		4216	0	4217	0
	4218	Stage 1	4219	-7.4		4220	0	4221	0
	4222	Stage 1	4223	-7.5		4224	0	4225	0
	4226	Stage 1	4227	-7.7		4228	0	4229	0
	4230	Stage 1	4231	-7.9		4232	0	4233	0
	4234	Stage 1	4235	-8.1		4236	0	4237	0
	4238	Stage 1	4239	-8.3		4240	0	4241	0
	4242	Stage 1	4243	-8.5		4244	0	4245	0
	4246	Stage 1	4247	-8.7		4248	0	4249	0
	4250	Stage 1	4251	-8.9		4252	0	4253	0
	4254	Stage 1	4255	-9.1		4256	0	4257	0
	4258	Stage 1	4259	-9.3		4260	0	4261	0
	4262	Stage 1	4263	-9.5		4264	0	4265	0
	4266	Stage 1	4267	-9.7		4268	0	4269	0
	4270	Stage 1	4271	-9.9		4272	0	4273	0
	4274	Stage 1	4275	-10.1		4276	0	4277	0

67	Design Assumption: Nominal 68		Risultati Paratia		69	Muro: LEFT	70		
	71	Stage	72	Z (m)	73	Momento (kN*m/m) 74	Taglio (kN/m)		
	4278	Stage 1	4279	-10.3		4280	0	4281	0
	4282	Stage 1	4283	-10.5		4284	0	4285	0
	4286	Stage 1	4287	-10.7		4288	0	4289	0
	4290	Stage 1	4291	-10.9		4292	0	4293	0
	4294	Stage 1	4295	-11.1		4296	0	4297	0
	4298	Stage 1	4299	-11.3		4300	0	4301	0
	4302	Stage 1	4303	-11.5		4304	0	4305	0
	4306	Stage 1	4307	-11.7		4308	0	4309	0
	4310	Stage 1	4311	-11.9		4312	0	4313	0
	4314	Stage 1	4315	-12		4316	0	4317	0
	4318	Stage 1	4319	-12.2		4320	0	4321	0
	4322	Stage 1	4323	-12.4		4324	0	4325	0
	4326	Stage 1	4327	-12.6		4328	0	4329	0
	4330	Stage 1	4331	-12.8		4332	0	4333	0
	4334	Stage 1	4335	-13		4336	0	4337	0
	4338	Stage 1	4339	-13.2		4340	0	4341	0
	4342	Stage 1	4343	-13.4		4344	0	4345	0
	4346	Stage 1	4347	-13.6		4348	0	4349	0
	4350	Stage 1	4351	-13.8		4352	0	4353	0
	4354	Stage 1	4355	-14		4356	0	4357	0
	4358	Stage 1	4359	-14.2		4360	0	4361	0
	4362	Stage 1	4363	-14.4		4364	0	4365	0
	4366	Stage 1	4367	-14.6		4368	0	4369	0
	4370	Stage 1	4371	-14.8		4372	0	4373	0
	4374	Stage 1	4375	-15		4376	0	4377	0
	4378	Stage 1	4379	-15.2		4380	0	4381	0
	4382	Stage 1	4383	-15.4		4384	0	4385	0
	4386	Stage 1	4387	-15.6		4388	0	4389	0
	4390	Stage 1	4391	-15.8		4392	0	4393	0
	4394	Stage 1	4395	-16		4396	0	4397	0
	4398	Stage 1	4399	-16.2		4400	0	4401	0
	4402	Stage 1	4403	-16.4		4404	0	4405	0
	4406	Stage 1	4407	-16.6		4408	0	4409	0
	4410	Stage 1	4411	-16.8		4412	0	4413	0
	4414	Stage 1	4415	-17		4416	0	4417	0
	4418	Stage 1	4419	-17.2		4420	0	4421	0
	4422	Stage 1	4423	-17.4		4424	0	4425	0
	4426	Stage 1	4427	-17.6		4428	0	4429	0
	4430	Stage 1	4431	-17.8		4432	0	4433	0
	4434	Stage 1	4435	-18		4436	0	4437	0
	4438	Stage 1	4439	-18.2		4440	0	4441	0
	4442	Stage 1	4443	-18.4		4444	0	4445	0
	4446	Stage 1	4447	-18.6		4448	0	4449	0
	4450	Stage 1	4451	-18.8		4452	0	4453	0
	4454	Stage 1	4455	-19		4456	0	4457	0
	4458	Stage 1	4459	-19.2		4460	0	4461	0
	4462	Stage 1	4463	-19.4		4464	0	4465	0
	4466	Stage 1	4467	-19.6		4468	0	4469	0
	4470	Stage 1	4471	-19.8		4472	0	4473	0
	4474	Stage 1	4475	-20		4476	0	4477	0
	4478	Stage 1	4479	-20.2		4480	0	4481	0
	4482	Stage 1	4483	-20.4		4484	0	4485	0
	4486	Stage 1	4487	-20.6		4488	0	4489	0
	4490	Stage 1	4491	-20.8		4492	0	4493	0
	4494	Stage 1	4495	-21		4496	0	4497	0
	4498	Stage 1	4499	-21.2		4500	0	4501	0
	4502	Stage 1	4503	-21.4		4504	0	4505	0
	4506	Stage 1	4507	-21.6		4508	0	4509	0
	4510	Stage 1	4511	-21.8		4512	0	4513	0
	4514	Stage 1	4515	-22		4516	0	4517	0

67		Design Assumption: Nominal 68		Risultati Paratia		69		Muro: LEFT		70	
71	Stage	72	z (m)	73	Momento (kN*m/m)	74	Taglio (kN/m)				
4518	Stage 1	4519	-22.2		4520	0	4521	0			
4522	Stage 1	4523	-22.4		4524	0	4525	0			
4526	Stage 1	4527	-22.6		4528	0	4529	0			
4530	Stage 1	4531	-22.8		4532	0	4533	0			
4534	Stage 1	4535	-23		4536	0	4537	0			
4538	Stage 1	4539	-23.2		4540	0	4541	0			
4542	Stage 1	4543	-23.4		4544	0	4545	0			
4546	Stage 1	4547	-23.6		4548	0	4549	0			
4550	Stage 1	4551	-23.8		4552	0	4553	0			
4554	Stage 1	4555	-24		4556	0	4557	0			

Tabella Risultati Paratia Nominal - Stage: Stage 2

75	Design Assumption: Nominal 76	Risultati Paratia			77	Muro: LEFT	78		
	79	Stage	80	Z (m)	81	Momento (kN*m/m)	82	Taglio (kN/m)	
	4558	Stage 2	4559	0		4560	0	4561	0
	4562	Stage 2	4563	-0.2		4564	0	4565	0
	4566	Stage 2	4567	-0.2		4568	0	4569	0
	4570	Stage 2	4571	-0.3		4572	-0.03	4573	-0.26
	4574	Stage 2	4575	-0.5		4576	-0.18	4577	-0.79
	4578	Stage 2	4579	-0.7		4580	-0.68	4581	-2.49
	4582	Stage 2	4583	-0.9		4584	-1.11	4585	-2.16
	4586	Stage 2	4587	-1.1		4588	-1.2	4589	-0.43
	4590	Stage 2	4591	-1.3		4592	-1.07	4593	0.64
	4594	Stage 2	4595	-1.5		4596	-0.84	4597	1.14
	4598	Stage 2	4599	-1.7		4600	-0.6	4601	1.23
	4602	Stage 2	4603	-1.9		4604	-0.38	4605	1.11
	4606	Stage 2	4607	-2.1		4608	-0.2	4609	0.89
	4610	Stage 2	4611	-2.3		4612	-0.07	4613	0.65
	4614	Stage 2	4615	-2.5		4616	0.02	4617	0.45
	4618	Stage 2	4619	-2.7		4620	0.08	4621	0.29
	4622	Stage 2	4623	-2.9		4624	0.11	4625	0.17
	4626	Stage 2	4627	-3		4628	0.12	4629	0.1
	4630	Stage 2	4631	-3.2		4632	0.13	4633	0.03
	4634	Stage 2	4635	-3.4		4636	0.11	4637	-0.08
	4638	Stage 2	4639	-3.6		4640	0.07	4641	-0.23
	4642	Stage 2	4643	-3.8		4644	-0.02	4645	-0.44
	4646	Stage 2	4647	-4		4648	-0.17	4649	-0.73
	4650	Stage 2	4651	-4.2		4652	-0.13	4653	0.18
	4654	Stage 2	4655	-4.4		4656	-0.06	4657	0.34
	4658	Stage 2	4659	-4.6		4660	-0.02	4661	0.23
	4662	Stage 2	4663	-4.8		4664	0	4665	0.1
	4666	Stage 2	4667	-5		4668	0.01	4669	0.02
	4670	Stage 2	4671	-5.2		4672	0	4673	-0.01
	4674	Stage 2	4675	-5.4		4676	0	4677	-0.01
	4678	Stage 2	4679	-5.6		4680	0	4681	-0.01
	4682	Stage 2	4683	-5.8		4684	0	4685	0
	4686	Stage 2	4687	-6		4688	0	4689	0
	4690	Stage 2	4691	-6.2		4692	0	4693	0
	4694	Stage 2	4695	-6.4		4696	0	4697	0
	4698	Stage 2	4699	-6.6		4700	0	4701	0
	4702	Stage 2	4703	-6.8		4704	0	4705	0
	4706	Stage 2	4707	-7		4708	0	4709	0
	4710	Stage 2	4711	-7.2		4712	0	4713	0
	4714	Stage 2	4715	-7.4		4716	0	4717	0
	4718	Stage 2	4719	-7.5		4720	0	4721	0
	4722	Stage 2	4723	-7.7		4724	0	4725	0
	4726	Stage 2	4727	-7.9		4728	0	4729	0
	4730	Stage 2	4731	-8.1		4732	0	4733	0
	4734	Stage 2	4735	-8.3		4736	0	4737	0
	4738	Stage 2	4739	-8.5		4740	0	4741	0
	4742	Stage 2	4743	-8.7		4744	0	4745	0
	4746	Stage 2	4747	-8.9		4748	0	4749	0
	4750	Stage 2	4751	-9.1		4752	0	4753	0
	4754	Stage 2	4755	-9.3		4756	0	4757	0
	4758	Stage 2	4759	-9.5		4760	0	4761	0
	4762	Stage 2	4763	-9.7		4764	0	4765	0
	4766	Stage 2	4767	-9.9		4768	0	4769	0
	4770	Stage 2	4771	-10.1		4772	0	4773	0
	4774	Stage 2	4775	-10.3		4776	0	4777	0
	4778	Stage 2	4779	-10.5		4780	0	4781	0

75	Design Assumption: Nominal 76		Risultati Paratia		77	Muro: LEFT	78
79	Stage	80	Z (m)	81	Momento (kN*m/m)	82	Taglio (kN/m)
4782	Stage 2	4783	-10.7		4784	0	4785 0
4786	Stage 2	4787	-10.9		4788	0	4789 0
4790	Stage 2	4791	-11.1		4792	0	4793 0
4794	Stage 2	4795	-11.3		4796	0	4797 0
4798	Stage 2	4799	-11.5		4800	0	4801 0
4802	Stage 2	4803	-11.7		4804	0	4805 0
4806	Stage 2	4807	-11.9		4808	0	4809 0
4810	Stage 2	4811	-12		4812	0	4813 0
4814	Stage 2	4815	-12.2		4816	0	4817 0
4818	Stage 2	4819	-12.4		4820	0	4821 0
4822	Stage 2	4823	-12.6		4824	0	4825 0
4826	Stage 2	4827	-12.8		4828	0	4829 0
4830	Stage 2	4831	-13		4832	0	4833 0
4834	Stage 2	4835	-13.2		4836	0	4837 0
4838	Stage 2	4839	-13.4		4840	0	4841 0
4842	Stage 2	4843	-13.6		4844	0	4845 0
4846	Stage 2	4847	-13.8		4848	0	4849 0
4850	Stage 2	4851	-14		4852	0	4853 0
4854	Stage 2	4855	-14.2		4856	0	4857 0
4858	Stage 2	4859	-14.4		4860	0	4861 0
4862	Stage 2	4863	-14.6		4864	0	4865 0
4866	Stage 2	4867	-14.8		4868	0	4869 0
4870	Stage 2	4871	-15		4872	0	4873 0
4874	Stage 2	4875	-15.2		4876	0	4877 0
4878	Stage 2	4879	-15.4		4880	0	4881 0
4882	Stage 2	4883	-15.6		4884	0	4885 0
4886	Stage 2	4887	-15.8		4888	0	4889 0
4890	Stage 2	4891	-16		4892	0	4893 0
4894	Stage 2	4895	-16.2		4896	0	4897 0
4898	Stage 2	4899	-16.4		4900	0	4901 0
4902	Stage 2	4903	-16.6		4904	0	4905 0
4906	Stage 2	4907	-16.8		4908	0	4909 0
4910	Stage 2	4911	-17		4912	0	4913 0
4914	Stage 2	4915	-17.2		4916	0	4917 0
4918	Stage 2	4919	-17.4		4920	0	4921 0
4922	Stage 2	4923	-17.6		4924	0	4925 0
4926	Stage 2	4927	-17.8		4928	0	4929 0
4930	Stage 2	4931	-18		4932	0	4933 0
4934	Stage 2	4935	-18.2		4936	0	4937 0
4938	Stage 2	4939	-18.4		4940	0	4941 0
4942	Stage 2	4943	-18.6		4944	0	4945 0
4946	Stage 2	4947	-18.8		4948	0	4949 0
4950	Stage 2	4951	-19		4952	0	4953 0
4954	Stage 2	4955	-19.2		4956	0	4957 0
4958	Stage 2	4959	-19.4		4960	0	4961 0
4962	Stage 2	4963	-19.6		4964	0	4965 0
4966	Stage 2	4967	-19.8		4968	0	4969 0
4970	Stage 2	4971	-20		4972	0	4973 0
4974	Stage 2	4975	-20.2		4976	0	4977 0
4978	Stage 2	4979	-20.4		4980	0	4981 0
4982	Stage 2	4983	-20.6		4984	0	4985 0
4986	Stage 2	4987	-20.8		4988	0	4989 0
4990	Stage 2	4991	-21		4992	0	4993 0
4994	Stage 2	4995	-21.2		4996	0	4997 0
4998	Stage 2	4999	-21.4		5000	0	5001 0
5002	Stage 2	5003	-21.6		5004	0	5005 0
5006	Stage 2	5007	-21.8		5008	0	5009 0
5010	Stage 2	5011	-22		5012	0	5013 0
5014	Stage 2	5015	-22.2		5016	0	5017 0
5018	Stage 2	5019	-22.4		5020	0	5021 0

75		Design Assumption: Nominal 76		Risultati Paratia 77		Muro: LEFT		78	
79	Stage	80	Z (m)	81	Momento (kN*m/m)	82	Taglio (kN/m)		
5022	Stage 2	5023	-22.6		5024	0	5025	0	
5026	Stage 2	5027	-22.8		5028	0	5029	0	
5030	Stage 2	5031	-23		5032	0	5033	0	
5034	Stage 2	5035	-23.2		5036	0	5037	0	
5038	Stage 2	5039	-23.4		5040	0	5041	0	
5042	Stage 2	5043	-23.6		5044	0	5045	0	
5046	Stage 2	5047	-23.8		5048	0	5049	0	
5050	Stage 2	5051	-24		5052	0	5053	0	

Tabella Risultati Paratia Nominal - Stage: Stage 3

83	Design Assumption: Nominal		Risultati Paratia		85	Muro: LEFT	86
87	Stage	88	Z (m)	89	Momento (kN*m/m)	90	Taglio (kN/m)
5054	Stage 3	5055	0		5056	0	5057 0
5058	Stage 3	5059	-0.2		5060	0	5061 0
5062	Stage 3	5063	-0.2		5064	0	5065 0
5066	Stage 3	5067	-0.3		5068	-0.68	5069 -6.78
5070	Stage 3	5071	-0.5		5072	18.93	5073 98.05
5074	Stage 3	5075	-0.7		5076	33.32	5077 71.96
5078	Stage 3	5079	-0.9		5080	40.33	5081 35.03
5082	Stage 3	5083	-1.1		5084	41.51	5085 5.91
5086	Stage 3	5087	-1.3		5088	38.14	5089 -16.87
5090	Stage 3	5091	-1.5		5092	31.71	5093 -32.13
5094	Stage 3	5095	-1.7		5096	24.18	5097 -37.66
5098	Stage 3	5099	-1.9		5100	16.75	5101 -37.17
5102	Stage 3	5103	-2.1		5104	10.42	5105 -31.66
5106	Stage 3	5107	-2.3		5108	5.54	5109 -24.39
5110	Stage 3	5111	-2.5		5112	2.11	5113 -17.15
5114	Stage 3	5115	-2.7		5116	-0.07	5117 -10.89
5118	Stage 3	5119	-2.9		5120	-1.27	5121 -6
5122	Stage 3	5123	-3		5124	-1.61	5125 -3.37
5126	Stage 3	5127	-3.2		5128	-1.85	5129 -1.22
5130	Stage 3	5131	-3.4		5132	-1.74	5133 0.57
5134	Stage 3	5135	-3.6		5136	-1.42	5137 1.58
5138	Stage 3	5139	-3.8		5140	-1.01	5141 2.06
5142	Stage 3	5143	-4		5144	-0.57	5145 2.2
5146	Stage 3	5147	-4.2		5148	-0.2	5149 1.85
5150	Stage 3	5151	-4.4		5152	0	5153 0.99
5154	Stage 3	5155	-4.6		5156	0.07	5157 0.33
5158	Stage 3	5159	-4.8		5160	0.06	5161 -0.01
5162	Stage 3	5163	-5		5164	0.04	5165 -0.12
5166	Stage 3	5167	-5.2		5168	0.02	5169 -0.11
5170	Stage 3	5171	-5.4		5172	0	5173 -0.07
5174	Stage 3	5175	-5.6		5176	0	5177 -0.03
5178	Stage 3	5179	-5.8		5180	0	5181 0
5182	Stage 3	5183	-6		5184	0	5185 0.01
5186	Stage 3	5187	-6.2		5188	0	5189 0.01
5190	Stage 3	5191	-6.4		5192	0	5193 0
5194	Stage 3	5195	-6.6		5196	0	5197 0
5198	Stage 3	5199	-6.8		5200	0	5201 0
5202	Stage 3	5203	-7		5204	0	5205 0
5206	Stage 3	5207	-7.2		5208	0	5209 0
5210	Stage 3	5211	-7.4		5212	0	5213 0
5214	Stage 3	5215	-7.5		5216	0	5217 0
5218	Stage 3	5219	-7.7		5220	0	5221 0
5222	Stage 3	5223	-7.9		5224	0	5225 0
5226	Stage 3	5227	-8.1		5228	0	5229 0
5230	Stage 3	5231	-8.3		5232	0	5233 0
5234	Stage 3	5235	-8.5		5236	0	5237 0
5238	Stage 3	5239	-8.7		5240	0	5241 0
5242	Stage 3	5243	-8.9		5244	0	5245 0
5246	Stage 3	5247	-9.1		5248	0	5249 0
5250	Stage 3	5251	-9.3		5252	0	5253 0
5254	Stage 3	5255	-9.5		5256	0	5257 0
5258	Stage 3	5259	-9.7		5260	0	5261 0
5262	Stage 3	5263	-9.9		5264	0	5265 0
5266	Stage 3	5267	-10.1		5268	0	5269 0
5270	Stage 3	5271	-10.3		5272	0	5273 0
5274	Stage 3	5275	-10.5		5276	0	5277 0

83	Design Assumption: Nominal 84		Risultati Paratia		85	Muro: LEFT	86
	87	Stage	88	Z (m)	89	Momento (kN*m/m) 90	Taglio (kN/m)
	5278	Stage 3	5279	-10.7		5280 0	5281 0
	5282	Stage 3	5283	-10.9		5284 0	5285 0
	5286	Stage 3	5287	-11.1		5288 0	5289 0
	5290	Stage 3	5291	-11.3		5292 0	5293 0
	5294	Stage 3	5295	-11.5		5296 0	5297 0
	5298	Stage 3	5299	-11.7		5300 0	5301 0
	5302	Stage 3	5303	-11.9		5304 0	5305 0
	5306	Stage 3	5307	-12		5308 0	5309 0
	5310	Stage 3	5311	-12.2		5312 0	5313 0
	5314	Stage 3	5315	-12.4		5316 0	5317 0
	5318	Stage 3	5319	-12.6		5320 0	5321 0
	5322	Stage 3	5323	-12.8		5324 0	5325 0
	5326	Stage 3	5327	-13		5328 0	5329 0
	5330	Stage 3	5331	-13.2		5332 0	5333 0
	5334	Stage 3	5335	-13.4		5336 0	5337 0
	5338	Stage 3	5339	-13.6		5340 0	5341 0
	5342	Stage 3	5343	-13.8		5344 0	5345 0
	5346	Stage 3	5347	-14		5348 0	5349 0
	5350	Stage 3	5351	-14.2		5352 0	5353 0
	5354	Stage 3	5355	-14.4		5356 0	5357 0
	5358	Stage 3	5359	-14.6		5360 0	5361 0
	5362	Stage 3	5363	-14.8		5364 0	5365 0
	5366	Stage 3	5367	-15		5368 0	5369 0
	5370	Stage 3	5371	-15.2		5372 0	5373 0
	5374	Stage 3	5375	-15.4		5376 0	5377 0
	5378	Stage 3	5379	-15.6		5380 0	5381 0
	5382	Stage 3	5383	-15.8		5384 0	5385 0
	5386	Stage 3	5387	-16		5388 0	5389 0
	5390	Stage 3	5391	-16.2		5392 0	5393 0
	5394	Stage 3	5395	-16.4		5396 0	5397 0
	5398	Stage 3	5399	-16.6		5400 0	5401 0
	5402	Stage 3	5403	-16.8		5404 0	5405 0
	5406	Stage 3	5407	-17		5408 0	5409 0
	5410	Stage 3	5411	-17.2		5412 0	5413 0
	5414	Stage 3	5415	-17.4		5416 0	5417 0
	5418	Stage 3	5419	-17.6		5420 0	5421 0
	5422	Stage 3	5423	-17.8		5424 0	5425 0
	5426	Stage 3	5427	-18		5428 0	5429 0
	5430	Stage 3	5431	-18.2		5432 0	5433 0
	5434	Stage 3	5435	-18.4		5436 0	5437 0
	5438	Stage 3	5439	-18.6		5440 0	5441 0
	5442	Stage 3	5443	-18.8		5444 0	5445 0
	5446	Stage 3	5447	-19		5448 0	5449 0
	5450	Stage 3	5451	-19.2		5452 0	5453 0
	5454	Stage 3	5455	-19.4		5456 0	5457 0
	5458	Stage 3	5459	-19.6		5460 0	5461 0
	5462	Stage 3	5463	-19.8		5464 0	5465 0
	5466	Stage 3	5467	-20		5468 0	5469 0
	5470	Stage 3	5471	-20.2		5472 0	5473 0
	5474	Stage 3	5475	-20.4		5476 0	5477 0
	5478	Stage 3	5479	-20.6		5480 0	5481 0
	5482	Stage 3	5483	-20.8		5484 0	5485 0
	5486	Stage 3	5487	-21		5488 0	5489 0
	5490	Stage 3	5491	-21.2		5492 0	5493 0
	5494	Stage 3	5495	-21.4		5496 0	5497 0
	5498	Stage 3	5499	-21.6		5500 0	5501 0
	5502	Stage 3	5503	-21.8		5504 0	5505 0
	5506	Stage 3	5507	-22		5508 0	5509 0
	5510	Stage 3	5511	-22.2		5512 0	5513 0
	5514	Stage 3	5515	-22.2		5516 0	5517 0

83		Design Assumption: Nominal 84		Risultati Paratia		85		Muro: LEFT		86	
87	Stage	88	Z (m)	89		Momento (kN*m/m) 90				Taglio (kN/m)	
5518	Stage 3	5519	-22.4			5520	0			5521	0
5522	Stage 3	5523	-22.6			5524	0			5525	0
5526	Stage 3	5527	-22.8			5528	0			5529	0
5530	Stage 3	5531	-23			5532	0			5533	0
5534	Stage 3	5535	-23.2			5536	0			5537	0
5538	Stage 3	5539	-23.4			5540	0			5541	0
5542	Stage 3	5543	-23.6			5544	0			5545	0
5546	Stage 3	5547	-23.8			5548	0			5549	0
5550	Stage 3	5551	-24			5552	0			5553	0

Tabella Risultati Paratia Nominal - Stage: Stage 4

91	Design Assumption: Nominal		Risultati Paratia		93	Muro: LEFT	94		
	95	Stage	96	Z (m)	97	Momento (kN*m/m)	98	Taglio (kN/m)	
	5554	Stage 4	5555	0		5556	0	5557	0
	5558	Stage 4	5559	-0.2		5560	0	5561	0
	5562	Stage 4	5563	-0.2		5564	0	5565	0
	5566	Stage 4	5567	-0.3		5568	-0.69	5569	-6.93
	5570	Stage 4	5571	-0.5		5572	18.45	5573	95.73
	5574	Stage 4	5575	-0.7		5576	32.34	5577	69.45
	5578	Stage 4	5579	-0.9		5580	38.99	5581	33.23
	5582	Stage 4	5583	-1.1		5584	42.24	5585	16.26
	5586	Stage 4	5587	-1.3		5588	44.95	5589	13.54
	5590	Stage 4	5591	-1.5		5592	47.01	5593	10.27
	5594	Stage 4	5595	-1.7		5596	48.26	5597	6.26
	5598	Stage 4	5599	-1.9		5600	48.56	5601	1.53
	5602	Stage 4	5603	-2.1		5604	47.78	5605	-3.9
	5606	Stage 4	5607	-2.3		5608	45.79	5609	-9.96
	5610	Stage 4	5611	-2.5		5612	42.47	5613	-16.63
	5614	Stage 4	5615	-2.7		5616	37.69	5617	-23.87
	5618	Stage 4	5619	-2.9		5620	31.35	5621	-31.68
	5622	Stage 4	5623	-3		5624	27.56	5625	-37.94
	5626	Stage 4	5627	-3.2		5628	18.68	5629	-44.39
	5630	Stage 4	5631	-3.4		5632	7.98	5633	-53.52
	5634	Stage 4	5635	-3.6		5636	-4.65	5637	-63.17
	5638	Stage 4	5639	-3.8		5640	-18.83	5641	-70.86
	5642	Stage 4	5643	-4		5644	-33.65	5645	-74.13
	5646	Stage 4	5647	-4.2		5648	-36.3	5649	-13.25
	5650	Stage 4	5651	-4.4		5652	-30.95	5653	26.75
	5654	Stage 4	5655	-4.6		5656	-20.23	5657	53.63
	5658	Stage 4	5659	-4.8		5660	-9.51	5661	53.57
	5662	Stage 4	5663	-5		5664	-2.52	5665	34.94
	5666	Stage 4	5667	-5.2		5668	0.85	5669	16.86
	5670	Stage 4	5671	-5.4		5672	1.83	5673	4.89
	5674	Stage 4	5675	-5.6		5676	1.51	5677	-1.6
	5678	Stage 4	5679	-5.8		5680	0.81	5681	-3.48
	5682	Stage 4	5683	-6		5684	0.28	5685	-2.66
	5686	Stage 4	5687	-6.2		5688	0.01	5689	-1.35
	5690	Stage 4	5691	-6.4		5692	-0.08	5693	-0.42
	5694	Stage 4	5695	-6.6		5696	-0.07	5697	0.02
	5698	Stage 4	5699	-6.8		5700	-0.04	5701	0.15
	5702	Stage 4	5703	-7		5704	-0.02	5705	0.13
	5706	Stage 4	5707	-7.2		5708	0	5709	0.07
	5710	Stage 4	5711	-7.4		5712	0	5713	0.02
	5714	Stage 4	5715	-7.5		5716	0	5717	0.01
	5718	Stage 4	5719	-7.7		5720	0	5721	0
	5722	Stage 4	5723	-7.9		5724	0	5725	-0.01
	5726	Stage 4	5727	-8.1		5728	0	5729	0
	5730	Stage 4	5731	-8.3		5732	0	5733	0
	5734	Stage 4	5735	-8.5		5736	0	5737	0
	5738	Stage 4	5739	-8.7		5740	0	5741	0
	5742	Stage 4	5743	-8.9		5744	0	5745	0
	5746	Stage 4	5747	-9.1		5748	0	5749	0
	5750	Stage 4	5751	-9.3		5752	0	5753	0
	5754	Stage 4	5755	-9.5		5756	0	5757	0
	5758	Stage 4	5759	-9.7		5760	0	5761	0
	5762	Stage 4	5763	-9.9		5764	0	5765	0
	5766	Stage 4	5767	-10.1		5768	0	5769	0
	5770	Stage 4	5771	-10.3		5772	0	5773	0
	5774	Stage 4	5775	-10.5		5776	0	5777	0

91	Design Assumption: Nominal		Risultati Paratia		93	Muro: LEFT	94
95	Stage	96	Z (m)	97	Momento (kN*m/m)	98	Taglio (kN/m)
5778	Stage 4	5779	-10.7		5780	0	5781 0
5782	Stage 4	5783	-10.9		5784	0	5785 0
5786	Stage 4	5787	-11.1		5788	0	5789 0
5790	Stage 4	5791	-11.3		5792	0	5793 0
5794	Stage 4	5795	-11.5		5796	0	5797 0
5798	Stage 4	5799	-11.7		5800	0	5801 0
5802	Stage 4	5803	-11.9		5804	0	5805 0
5806	Stage 4	5807	-12		5808	0	5809 0
5810	Stage 4	5811	-12.2		5812	0	5813 0
5814	Stage 4	5815	-12.4		5816	0	5817 0
5818	Stage 4	5819	-12.6		5820	0	5821 0
5822	Stage 4	5823	-12.8		5824	0	5825 0
5826	Stage 4	5827	-13		5828	0	5829 0
5830	Stage 4	5831	-13.2		5832	0	5833 0
5834	Stage 4	5835	-13.4		5836	0	5837 0
5838	Stage 4	5839	-13.6		5840	0	5841 0
5842	Stage 4	5843	-13.8		5844	0	5845 0
5846	Stage 4	5847	-14		5848	0	5849 0
5850	Stage 4	5851	-14.2		5852	0	5853 0
5854	Stage 4	5855	-14.4		5856	0	5857 0
5858	Stage 4	5859	-14.6		5860	0	5861 0
5862	Stage 4	5863	-14.8		5864	0	5865 0
5866	Stage 4	5867	-15		5868	0	5869 0
5870	Stage 4	5871	-15.2		5872	0	5873 0
5874	Stage 4	5875	-15.4		5876	0	5877 0
5878	Stage 4	5879	-15.6		5880	0	5881 0
5882	Stage 4	5883	-15.8		5884	0	5885 0
5886	Stage 4	5887	-16		5888	0	5889 0
5890	Stage 4	5891	-16.2		5892	0	5893 0
5894	Stage 4	5895	-16.4		5896	0	5897 0
5898	Stage 4	5899	-16.6		5900	0	5901 0
5902	Stage 4	5903	-16.8		5904	0	5905 0
5906	Stage 4	5907	-17		5908	0	5909 0
5910	Stage 4	5911	-17.2		5912	0	5913 0
5914	Stage 4	5915	-17.4		5916	0	5917 0
5918	Stage 4	5919	-17.6		5920	0	5921 0
5922	Stage 4	5923	-17.8		5924	0	5925 0
5926	Stage 4	5927	-18		5928	0	5929 0
5930	Stage 4	5931	-18.2		5932	0	5933 0
5934	Stage 4	5935	-18.4		5936	0	5937 0
5938	Stage 4	5939	-18.6		5940	0	5941 0
5942	Stage 4	5943	-18.8		5944	0	5945 0
5946	Stage 4	5947	-19		5948	0	5949 0
5950	Stage 4	5951	-19.2		5952	0	5953 0
5954	Stage 4	5955	-19.4		5956	0	5957 0
5958	Stage 4	5959	-19.6		5960	0	5961 0
5962	Stage 4	5963	-19.8		5964	0	5965 0
5966	Stage 4	5967	-20		5968	0	5969 0
5970	Stage 4	5971	-20.2		5972	0	5973 0
5974	Stage 4	5975	-20.4		5976	0	5977 0
5978	Stage 4	5979	-20.6		5980	0	5981 0
5982	Stage 4	5983	-20.8		5984	0	5985 0
5986	Stage 4	5987	-21		5988	0	5989 0
5990	Stage 4	5991	-21.2		5992	0	5993 0
5994	Stage 4	5995	-21.4		5996	0	5997 0
5998	Stage 4	5999	-21.6		6000	0	6001 0
6002	Stage 4	6003	-21.8		6004	0	6005 0
6006	Stage 4	6007	-22		6008	0	6009 0
6010	Stage 4	6011	-22.2		6012	0	6013 0
6014	Stage 4	6015	-22.4		6016	0	6017 0

91		Design Assumption: Nominal92		Risultati Paratia		93		Muro: LEFT		94	
95		Stage	96	Z (m)	97	Momento (kN*m/m)98		98		Taglio (kN/m)	
6018	Stage 4		6019	-22.6		6020	0		6021	0	
6022	Stage 4		6023	-22.8		6024	0		6025	0	
6026	Stage 4		6027	-23		6028	0		6029	0	
6030	Stage 4		6031	-23.2		6032	0		6033	0	
6034	Stage 4		6035	-23.4		6036	0		6037	0	
6038	Stage 4		6039	-23.6		6040	0		6041	0	
6042	Stage 4		6043	-23.8		6044	0		6045	0	
6046	Stage 4		6047	-24		6048	0		6049	0	

Tabella Risultati Paratia Nominal - Stage: Stage 5

99	Design Assumption: Nominal 100		Risultati Paratia		101	Muro: LEFT	102		
	103	Stage	104	Z (m)	105	Momento (kN*m/m)	106	Taglio (kN/m)	
	6050	Stage 5	6051	0		6052	0	6053	0
	6054	Stage 5	6055	-0.2		6056	0	6057	0
	6058	Stage 5	6059	-0.2		6060	0	6061	0
	6062	Stage 5	6063	-0.3		6064	-0.61	6065	-6.11
	6066	Stage 5	6067	-0.5		6068	18.87	6069	97.4
	6070	Stage 5	6071	-0.7		6072	33.28	6073	72.05
	6074	Stage 5	6075	-0.9		6076	40.6	6077	36.59
	6078	Stage 5	6079	-1.1		6080	44.63	6081	20.14
	6082	Stage 5	6083	-1.3		6084	48.12	6085	17.48
	6086	Stage 5	6087	-1.5		6088	50.86	6089	13.7
	6090	Stage 5	6091	-1.7		6092	52.51	6093	8.25
	6094	Stage 5	6095	-1.9		6096	52.66	6097	0.76
	6098	Stage 5	6099	-2.1		6100	50.85	6101	-9.08
	6102	Stage 5	6103	-2.3		6104	46.53	6105	-21.62
	6106	Stage 5	6107	-2.5		6108	39.11	6109	-37.09
	6110	Stage 5	6111	-2.7		6112	28.06	6113	-55.23
	6114	Stage 5	6115	-2.9		6116	13.14	6117	-74.61
	6118	Stage 5	6119	-3		6120	4.16	6121	-89.82
	6122	Stage 5	6123	-3.2		6124	6.2	6125	10.23
	6126	Stage 5	6127	-3.4		6128	4.15	6129	-10.28
	6130	Stage 5	6131	-3.6		6132	-1.8	6133	-29.73
	6134	Stage 5	6135	-3.8		6136	-11.08	6137	-46.39
	6138	Stage 5	6139	-4		6140	-22.13	6141	-55.25
	6142	Stage 5	6143	-4.2		6144	-27.83	6145	-28.51
	6146	Stage 5	6147	-4.4		6148	-26.2	6149	8.14
	6150	Stage 5	6151	-4.6		6152	-19	6153	36.02
	6154	Stage 5	6155	-4.8		6156	-9.83	6157	45.86
	6158	Stage 5	6159	-5		6160	-3.17	6161	33.26
	6162	Stage 5	6163	-5.2		6164	0.35	6165	17.64
	6166	Stage 5	6167	-5.4		6168	1.56	6169	6.04
	6170	Stage 5	6171	-5.6		6172	1.43	6173	-0.66
	6174	Stage 5	6175	-5.8		6176	0.82	6177	-3.05
	6178	Stage 5	6179	-6		6180	0.31	6181	-2.55
	6182	Stage 5	6183	-6.2		6184	0.03	6185	-1.38
	6186	Stage 5	6187	-6.4		6188	-0.06	6189	-0.48
	6190	Stage 5	6191	-6.6		6192	-0.07	6193	-0.02
	6194	Stage 5	6195	-6.8		6196	-0.04	6197	0.13
	6198	Stage 5	6199	-7		6200	-0.02	6201	0.12
	6202	Stage 5	6203	-7.2		6204	0	6205	0.07
	6206	Stage 5	6207	-7.4		6208	0	6209	0.03
	6210	Stage 5	6211	-7.5		6212	0	6213	0.01
	6214	Stage 5	6215	-7.7		6216	0	6217	0
	6218	Stage 5	6219	-7.9		6220	0	6221	-0.01
	6222	Stage 5	6223	-8.1		6224	0	6225	0
	6226	Stage 5	6227	-8.3		6228	0	6229	0
	6230	Stage 5	6231	-8.5		6232	0	6233	0
	6234	Stage 5	6235	-8.7		6236	0	6237	0
	6238	Stage 5	6239	-8.9		6240	0	6241	0
	6242	Stage 5	6243	-9.1		6244	0	6245	0
	6246	Stage 5	6247	-9.3		6248	0	6249	0
	6250	Stage 5	6251	-9.5		6252	0	6253	0
	6254	Stage 5	6255	-9.7		6256	0	6257	0
	6258	Stage 5	6259	-9.9		6260	0	6261	0
	6262	Stage 5	6263	-10.1		6264	0	6265	0
	6266	Stage 5	6267	-10.3		6268	0	6269	0
	6270	Stage 5	6271	-10.5		6272	0	6273	0

99	Design Assumption: Nominal 100		Risultati Paratia		101	Muro: LEFT	102		
	103	Stage	104	Z (m)	105	Momento (kN*m/m)	106	Taglio (kN/m)	
	6274	Stage 5	6275	-10.7		6276	0	6277	0
	6278	Stage 5	6279	-10.9		6280	0	6281	0
	6282	Stage 5	6283	-11.1		6284	0	6285	0
	6286	Stage 5	6287	-11.3		6288	0	6289	0
	6290	Stage 5	6291	-11.5		6292	0	6293	0
	6294	Stage 5	6295	-11.7		6296	0	6297	0
	6298	Stage 5	6299	-11.9		6300	0	6301	0
	6302	Stage 5	6303	-12		6304	0	6305	0
	6306	Stage 5	6307	-12.2		6308	0	6309	0
	6310	Stage 5	6311	-12.4		6312	0	6313	0
	6314	Stage 5	6315	-12.6		6316	0	6317	0
	6318	Stage 5	6319	-12.8		6320	0	6321	0
	6322	Stage 5	6323	-13		6324	0	6325	0
	6326	Stage 5	6327	-13.2		6328	0	6329	0
	6330	Stage 5	6331	-13.4		6332	0	6333	0
	6334	Stage 5	6335	-13.6		6336	0	6337	0
	6338	Stage 5	6339	-13.8		6340	0	6341	0
	6342	Stage 5	6343	-14		6344	0	6345	0
	6346	Stage 5	6347	-14.2		6348	0	6349	0
	6350	Stage 5	6351	-14.4		6352	0	6353	0
	6354	Stage 5	6355	-14.6		6356	0	6357	0
	6358	Stage 5	6359	-14.8		6360	0	6361	0
	6362	Stage 5	6363	-15		6364	0	6365	0
	6366	Stage 5	6367	-15.2		6368	0	6369	0
	6370	Stage 5	6371	-15.4		6372	0	6373	0
	6374	Stage 5	6375	-15.6		6376	0	6377	0
	6378	Stage 5	6379	-15.8		6380	0	6381	0
	6382	Stage 5	6383	-16		6384	0	6385	0
	6386	Stage 5	6387	-16.2		6388	0	6389	0
	6390	Stage 5	6391	-16.4		6392	0	6393	0
	6394	Stage 5	6395	-16.6		6396	0	6397	0
	6398	Stage 5	6399	-16.8		6400	0	6401	0
	6402	Stage 5	6403	-17		6404	0	6405	0
	6406	Stage 5	6407	-17.2		6408	0	6409	0
	6410	Stage 5	6411	-17.4		6412	0	6413	0
	6414	Stage 5	6415	-17.6		6416	0	6417	0
	6418	Stage 5	6419	-17.8		6420	0	6421	0
	6422	Stage 5	6423	-18		6424	0	6425	0
	6426	Stage 5	6427	-18.2		6428	0	6429	0
	6430	Stage 5	6431	-18.4		6432	0	6433	0
	6434	Stage 5	6435	-18.6		6436	0	6437	0
	6438	Stage 5	6439	-18.8		6440	0	6441	0
	6442	Stage 5	6443	-19		6444	0	6445	0
	6446	Stage 5	6447	-19.2		6448	0	6449	0
	6450	Stage 5	6451	-19.4		6452	0	6453	0
	6454	Stage 5	6455	-19.6		6456	0	6457	0
	6458	Stage 5	6459	-19.8		6460	0	6461	0
	6462	Stage 5	6463	-20		6464	0	6465	0
	6466	Stage 5	6467	-20.2		6468	0	6469	0
	6470	Stage 5	6471	-20.4		6472	0	6473	0
	6474	Stage 5	6475	-20.6		6476	0	6477	0
	6478	Stage 5	6479	-20.8		6480	0	6481	0
	6482	Stage 5	6483	-21		6484	0	6485	0
	6486	Stage 5	6487	-21.2		6488	0	6489	0
	6490	Stage 5	6491	-21.4		6492	0	6493	0
	6494	Stage 5	6495	-21.6		6496	0	6497	0
	6498	Stage 5	6499	-21.8		6500	0	6501	0
	6502	Stage 5	6503	-22		6504	0	6505	0
	6506	Stage 5	6507	-22.2		6508	0	6509	0
	6510	Stage 5	6511	-22.4		6512	0	6513	0

99		Design Assumption: Nominal 100		Risultati Paratia		101		Muro: LEFT		102	
103	Stage	104	Z (m)	105	Momento (kN*m/m)	106	Taglio (kN/m)				
6514	Stage 5	6515	-22.6		6516	0	6517	0			
6518	Stage 5	6519	-22.8		6520	0	6521	0			
6522	Stage 5	6523	-23		6524	0	6525	0			
6526	Stage 5	6527	-23.2		6528	0	6529	0			
6530	Stage 5	6531	-23.4		6532	0	6533	0			
6534	Stage 5	6535	-23.6		6536	0	6537	0			
6538	Stage 5	6539	-23.8		6540	0	6541	0			
6542	Stage 5	6543	-24		6544	0	6545	0			

Tabella Risultati Paratia Nominal - Stage: Stage 6

107	Design Assumption: Nominal 108		Risultati Paratia			109	Muro: LEFT	110	
	111	Stage	112	Z (m)	113	Momento (kN*m/m)	114	Taglio (kN/m)	
6546	Stage 6	6547	0	6548	0	6549	0		
6550	Stage 6	6551	-0.2	6552	0	6553	0		
6554	Stage 6	6555	-0.2	6556	0	6557	0		
6558	Stage 6	6559	-0.3	6560	-0.67	6561	-6.72		
6562	Stage 6	6563	-0.5	6564	18.52	6565	95.97		
6566	Stage 6	6567	-0.7	6568	32.42	6569	69.5		
6570	Stage 6	6571	-0.9	6572	38.97	6573	32.74		
6574	Stage 6	6575	-1.1	6576	41.94	6577	14.83		
6578	Stage 6	6579	-1.3	6580	44.06	6581	10.62		
6582	Stage 6	6583	-1.5	6584	45.13	6585	5.34		
6586	Stage 6	6587	-1.7	6588	44.85	6589	-1.41		
6590	Stage 6	6591	-1.9	6592	42.9	6593	-9.74		
6594	Stage 6	6595	-2.1	6596	38.96	6597	-19.67		
6598	Stage 6	6599	-2.3	6600	32.74	6601	-31.12		
6602	Stage 6	6603	-2.5	6604	23.97	6605	-43.84		
6606	Stage 6	6607	-2.7	6608	12.57	6609	-56.99		
6610	Stage 6	6611	-2.9	6612	-1.13	6613	-68.53		
6614	Stage 6	6615	-3	6616	-8.66	6617	-75.24		
6618	Stage 6	6619	-3.2	6620	-1.53	6621	35.66		
6622	Stage 6	6623	-3.4	6624	3.78	6625	26.53		
6626	Stage 6	6627	-3.6	6628	7.16	6629	16.88		
6630	Stage 6	6631	-3.8	6632	8.5	6633	6.72		
6634	Stage 6	6635	-4	6636	7.71	6637	-3.96		
6638	Stage 6	6639	-4.2	6640	6.92	6641	-3.96		
6642	Stage 6	6643	-4.4	6644	6.13	6645	-3.96		
6646	Stage 6	6647	-4.6	6648	5.33	6649	-3.96		
6650	Stage 6	6651	-4.8	6652	4.54	6653	-3.96		
6654	Stage 6	6655	-5	6656	3.75	6657	-3.96		
6658	Stage 6	6659	-5.2	6660	2.96	6661	-3.96		
6662	Stage 6	6663	-5.4	6664	2.17	6665	-3.96		
6666	Stage 6	6667	-5.6	6668	1.38	6669	-3.96		
6670	Stage 6	6671	-5.8	6672	0.59	6673	-3.96		
6674	Stage 6	6675	-6	6676	-0.21	6677	-3.96		
6678	Stage 6	6679	-6.2	6680	-1	6681	-3.96		
6682	Stage 6	6683	-6.4	6684	-1.79	6685	-3.96		
6686	Stage 6	6687	-6.6	6688	-2.58	6689	-3.96		
6690	Stage 6	6691	-6.8	6692	-3.37	6693	-3.96		
6694	Stage 6	6695	-7	6696	-4.16	6697	-3.96		
6698	Stage 6	6699	-7.2	6700	-4.96	6701	-3.96		
6702	Stage 6	6703	-7.4	6704	-5.75	6705	-3.96		
6706	Stage 6	6707	-7.5	6708	-6.14	6709	-3.96		
6710	Stage 6	6711	-7.7	6712	-6.93	6713	-3.96		
6714	Stage 6	6715	-7.9	6716	-7.73	6717	-3.96		
6718	Stage 6	6719	-8.1	6720	-8.52	6721	-3.96		
6722	Stage 6	6723	-8.3	6724	-6.36	6725	10.78		
6726	Stage 6	6727	-8.5	6728	-3.71	6729	13.28		
6730	Stage 6	6731	-8.7	6732	-1.64	6733	10.35		
6734	Stage 6	6735	-8.9	6736	-0.39	6737	6.23		
6738	Stage 6	6739	-9.1	6740	0.18	6741	2.87		
6742	Stage 6	6743	-9.3	6744	0.34	6745	0.77		
6746	Stage 6	6747	-9.5	6748	0.29	6749	-0.24		
6750	Stage 6	6751	-9.7	6752	0.18	6753	-0.54		
6754	Stage 6	6755	-9.9	6756	0.08	6757	-0.49		
6758	Stage 6	6759	-10.1	6760	0.02	6761	-0.32		
6762	Stage 6	6763	-10.3	6764	-0.01	6765	-0.16		
6766	Stage 6	6767	-10.5	6768	-0.02	6769	-0.05		

107	Design Assumption: Nominal 108		Risultati Paratia		109	Muro: LEFT	110
	111	Stage	112	Z (m)	113	Momento (kN*m/m) 114	Taglio (kN/m)
6770	Stage 6	6771	-10.7	6772	-0.02	6773	0
6774	Stage 6	6775	-10.9	6776	-0.02	6777	0.03
6778	Stage 6	6779	-11.1	6780	-0.01	6781	0.03
6782	Stage 6	6783	-11.3	6784	-0.01	6785	0.02
6786	Stage 6	6787	-11.5	6788	-0.01	6789	0.01
6790	Stage 6	6791	-11.7	6792	0	6793	0.01
6794	Stage 6	6795	-11.9	6796	0	6797	0
6798	Stage 6	6799	-12	6800	0	6801	0
6802	Stage 6	6803	-12.2	6804	0	6805	0
6806	Stage 6	6807	-12.4	6808	0	6809	0
6810	Stage 6	6811	-12.6	6812	0	6813	0
6814	Stage 6	6815	-12.8	6816	0	6817	0
6818	Stage 6	6819	-13	6820	0	6821	0
6822	Stage 6	6823	-13.2	6824	0	6825	0
6826	Stage 6	6827	-13.4	6828	0	6829	0
6830	Stage 6	6831	-13.6	6832	0	6833	0
6834	Stage 6	6835	-13.8	6836	0	6837	0
6838	Stage 6	6839	-14	6840	0	6841	0
6842	Stage 6	6843	-14.2	6844	0	6845	0
6846	Stage 6	6847	-14.4	6848	0	6849	0
6850	Stage 6	6851	-14.6	6852	0	6853	0
6854	Stage 6	6855	-14.8	6856	0	6857	0
6858	Stage 6	6859	-15	6860	0	6861	0
6862	Stage 6	6863	-15.2	6864	0	6865	0
6866	Stage 6	6867	-15.4	6868	0	6869	0
6870	Stage 6	6871	-15.6	6872	0	6873	0
6874	Stage 6	6875	-15.8	6876	0	6877	0
6878	Stage 6	6879	-16	6880	0	6881	0
6882	Stage 6	6883	-16.2	6884	0	6885	0
6886	Stage 6	6887	-16.4	6888	0	6889	0
6890	Stage 6	6891	-16.6	6892	0	6893	0
6894	Stage 6	6895	-16.8	6896	0	6897	0
6898	Stage 6	6899	-17	6900	0	6901	0
6902	Stage 6	6903	-17.2	6904	0	6905	0
6906	Stage 6	6907	-17.4	6908	0	6909	0
6910	Stage 6	6911	-17.6	6912	0	6913	0
6914	Stage 6	6915	-17.8	6916	0	6917	0
6918	Stage 6	6919	-18	6920	0	6921	0
6922	Stage 6	6923	-18.2	6924	0	6925	0
6926	Stage 6	6927	-18.4	6928	0	6929	0
6930	Stage 6	6931	-18.6	6932	0	6933	0
6934	Stage 6	6935	-18.8	6936	0	6937	0
6938	Stage 6	6939	-19	6940	0	6941	0
6942	Stage 6	6943	-19.2	6944	0	6945	0
6946	Stage 6	6947	-19.4	6948	0	6949	0
6950	Stage 6	6951	-19.6	6952	0	6953	0
6954	Stage 6	6955	-19.8	6956	0	6957	0
6958	Stage 6	6959	-20	6960	0	6961	0
6962	Stage 6	6963	-20.2	6964	0	6965	0
6966	Stage 6	6967	-20.4	6968	0	6969	0
6970	Stage 6	6971	-20.6	6972	0	6973	0
6974	Stage 6	6975	-20.8	6976	0	6977	0
6978	Stage 6	6979	-21	6980	0	6981	0
6982	Stage 6	6983	-21.2	6984	0	6985	0
6986	Stage 6	6987	-21.4	6988	0	6989	0
6990	Stage 6	6991	-21.6	6992	0	6993	0
6994	Stage 6	6995	-21.8	6996	0	6997	0
6998	Stage 6	6999	-22	7000	0	7001	0
7002	Stage 6	7003	-22.2	7004	0	7005	0
7006	Stage 6	7007	-22.4	7008	0	7009	0

107		Design Assumption: Nominal 108		Risultati Paratia		109		Muro: LEFT		110	
111	Stage	112	Z (m)	113	Momento (kN*m/m)	114	Taglio (kN/m)				
7010	Stage 6	7011	-22.6		7012	0		7013	0		
7014	Stage 6	7015	-22.8		7016	0		7017	0		
7018	Stage 6	7019	-23		7020	0		7021	0		
7022	Stage 6	7023	-23.2		7024	0		7025	0		
7026	Stage 6	7027	-23.4		7028	0		7029	0		
7030	Stage 6	7031	-23.6		7032	0		7033	0		
7034	Stage 6	7035	-23.8		7036	0		7037	0		
7038	Stage 6	7039	-24		7040	0		7041	0		

Tabella Risultati Paratia Nominal - Stage: Stage 7

115	Design Assumption: Nominal 116		Risultati Paratia		117	Muro: LEFT	118
	119	Stage	120	Z (m)	121	Momento (kN*m/m) 122	Taglio (kN/m)
	7042	Stage 7	7043	0	7044	0	7045 0
	7046	Stage 7	7047	-0.2	7048	0	7049 0
	7050	Stage 7	7051	-0.2	7052	0	7053 0
	7054	Stage 7	7055	-0.3	7056	-0.67	7057 -6.73
	7058	Stage 7	7059	-0.5	7060	18.52	7061 95.95
	7062	Stage 7	7063	-0.7	7064	32.41	7065 69.45
	7066	Stage 7	7067	-0.9	7068	38.94	7069 32.67
	7070	Stage 7	7071	-1.1	7072	41.89	7073 14.74
	7074	Stage 7	7075	-1.3	7076	43.99	7077 10.5
	7078	Stage 7	7079	-1.5	7080	45.03	7081 5.2
	7082	Stage 7	7083	-1.7	7084	44.71	7085 -1.57
	7086	Stage 7	7087	-1.9	7088	42.73	7089 -9.92
	7090	Stage 7	7091	-2.1	7092	38.76	7093 -19.84
	7094	Stage 7	7095	-2.3	7096	32.51	7097 -31.27
	7098	Stage 7	7099	-2.5	7100	23.72	7101 -43.94
	7102	Stage 7	7103	-2.7	7104	12.32	7105 -56.99
	7106	Stage 7	7107	-2.9	7108	-1.36	7109 -68.39
	7110	Stage 7	7111	-3	7112	-8.85	7113 -74.95
	7114	Stage 7	7115	-3.2	7116	-1.65	7117 35.98
	7118	Stage 7	7119	-3.4	7120	3.72	7121 26.86
	7122	Stage 7	7123	-3.6	7124	7.16	7125 17.21
	7126	Stage 7	7127	-3.8	7128	8.57	7129 7.04
	7130	Stage 7	7131	-4	7132	7.84	7133 -3.63
	7134	Stage 7	7135	-4.2	7136	7.11	7137 -3.63
	7138	Stage 7	7139	-4.4	7140	6.39	7141 -3.63
	7142	Stage 7	7143	-4.6	7144	5.66	7145 -3.63
	7146	Stage 7	7147	-4.8	7148	4.93	7149 -3.63
	7150	Stage 7	7151	-5	7152	4.21	7153 -3.63
	7154	Stage 7	7155	-5.2	7156	3.48	7157 -3.63
	7158	Stage 7	7159	-5.4	7160	2.75	7161 -3.63
	7162	Stage 7	7163	-5.6	7164	2.03	7165 -3.63
	7166	Stage 7	7167	-5.8	7168	1.3	7169 -3.63
	7170	Stage 7	7171	-6	7172	0.57	7173 -3.63
	7174	Stage 7	7175	-6.2	7176	-0.15	7177 -3.63
	7178	Stage 7	7179	-6.4	7180	-0.88	7181 -3.63
	7182	Stage 7	7183	-6.6	7184	-1.61	7185 -3.63
	7186	Stage 7	7187	-6.8	7188	-2.33	7189 -3.63
	7190	Stage 7	7191	-7	7192	-3.41	7193 -5.4
	7194	Stage 7	7195	-7.2	7196	-6.03	7197 -13.08
	7198	Stage 7	7199	-7.4	7200	-11.45	7201 -27.09
	7202	Stage 7	7203	-7.5	7204	-15.58	7205 -41.37
	7206	Stage 7	7207	-7.7	7208	-9.52	7209 30.32
	7210	Stage 7	7211	-7.9	7212	-6.81	7213 13.57
	7214	Stage 7	7215	-8.1	7216	-6.27	7217 2.66
	7218	Stage 7	7219	-8.3	7220	-4.28	7221 9.95
	7222	Stage 7	7223	-8.5	7224	-2.3	7225 9.9
	7226	Stage 7	7227	-8.7	7228	-0.9	7229 7.02
	7230	Stage 7	7231	-8.9	7232	-0.12	7233 3.9
	7234	Stage 7	7235	-9.1	7236	0.2	7237 1.59
	7238	Stage 7	7239	-9.3	7240	0.25	7241 0.27
	7242	Stage 7	7243	-9.5	7244	0.19	7245 -0.3
	7246	Stage 7	7247	-9.7	7248	0.11	7249 -0.42
	7250	Stage 7	7251	-9.9	7252	0.04	7253 -0.34
	7254	Stage 7	7255	-10.1	7256	0	7257 -0.2
	7258	Stage 7	7259	-10.3	7260	-0.02	7261 -0.09
	7262	Stage 7	7263	-10.5	7264	-0.02	7265 -0.02

115	Design Assumption: Nominal 116		Risultati Paratia		117	Muro: LEFT	118		
	119	Stage	120	Z (m)	121	Momento (kN*m/m) 122	Taglio (kN/m)		
	7266	Stage 7	7267	-10.7		7268	-0.02	7269	0.01
	7270	Stage 7	7271	-10.9		7272	-0.01	7273	0.02
	7274	Stage 7	7275	-11.1		7276	-0.01	7277	0.02
	7278	Stage 7	7279	-11.3		7280	-0.01	7281	0.02
	7282	Stage 7	7283	-11.5		7284	0	7285	0.01
	7286	Stage 7	7287	-11.7		7288	0	7289	0
	7290	Stage 7	7291	-11.9		7292	0	7293	0
	7294	Stage 7	7295	-12		7296	0	7297	0
	7298	Stage 7	7299	-12.2		7300	0	7301	0
	7302	Stage 7	7303	-12.4		7304	0	7305	0
	7306	Stage 7	7307	-12.6		7308	0	7309	0
	7310	Stage 7	7311	-12.8		7312	0	7313	0
	7314	Stage 7	7315	-13		7316	0	7317	0
	7318	Stage 7	7319	-13.2		7320	0	7321	0
	7322	Stage 7	7323	-13.4		7324	0	7325	0
	7326	Stage 7	7327	-13.6		7328	0	7329	0
	7330	Stage 7	7331	-13.8		7332	0	7333	0
	7334	Stage 7	7335	-14		7336	0	7337	0
	7338	Stage 7	7339	-14.2		7340	0	7341	0
	7342	Stage 7	7343	-14.4		7344	0	7345	0
	7346	Stage 7	7347	-14.6		7348	0	7349	0
	7350	Stage 7	7351	-14.8		7352	0	7353	0
	7354	Stage 7	7355	-15		7356	0	7357	0
	7358	Stage 7	7359	-15.2		7360	0	7361	0
	7362	Stage 7	7363	-15.4		7364	0	7365	0
	7366	Stage 7	7367	-15.6		7368	0	7369	0
	7370	Stage 7	7371	-15.8		7372	0	7373	0
	7374	Stage 7	7375	-16		7376	0	7377	0
	7378	Stage 7	7379	-16.2		7380	0	7381	0
	7382	Stage 7	7383	-16.4		7384	0	7385	0
	7386	Stage 7	7387	-16.6		7388	0	7389	0
	7390	Stage 7	7391	-16.8		7392	0	7393	0
	7394	Stage 7	7395	-17		7396	0	7397	0
	7398	Stage 7	7399	-17.2		7400	0	7401	0
	7402	Stage 7	7403	-17.4		7404	0	7405	0
	7406	Stage 7	7407	-17.6		7408	0	7409	0
	7410	Stage 7	7411	-17.8		7412	0	7413	0
	7414	Stage 7	7415	-18		7416	0	7417	0
	7418	Stage 7	7419	-18.2		7420	0	7421	0
	7422	Stage 7	7423	-18.4		7424	0	7425	0
	7426	Stage 7	7427	-18.6		7428	0	7429	0
	7430	Stage 7	7431	-18.8		7432	0	7433	0
	7434	Stage 7	7435	-19		7436	0	7437	0
	7438	Stage 7	7439	-19.2		7440	0	7441	0
	7442	Stage 7	7443	-19.4		7444	0	7445	0
	7446	Stage 7	7447	-19.6		7448	0	7449	0
	7450	Stage 7	7451	-19.8		7452	0	7453	0
	7454	Stage 7	7455	-20		7456	0	7457	0
	7458	Stage 7	7459	-20.2		7460	0	7461	0
	7462	Stage 7	7463	-20.4		7464	0	7465	0
	7466	Stage 7	7467	-20.6		7468	0	7469	0
	7470	Stage 7	7471	-20.8		7472	0	7473	0
	7474	Stage 7	7475	-21		7476	0	7477	0
	7478	Stage 7	7479	-21.2		7480	0	7481	0
	7482	Stage 7	7483	-21.4		7484	0	7485	0
	7486	Stage 7	7487	-21.6		7488	0	7489	0
	7490	Stage 7	7491	-21.8		7492	0	7493	0
	7494	Stage 7	7495	-22		7496	0	7497	0
	7498	Stage 7	7499	-22.2		7500	0	7501	0
	7502	Stage 7	7503	-22.4		7504	0	7505	0

115		Design Assumption: Nominal 116		Risultati Paratia 117		Muro: LEFT		118	
119	Stage	120	z (m)	121	Momento (kN*m/m)	122	Taglio (kN/m)		
7506	Stage 7	7507	-22.6		7508	0	7509	0	
7510	Stage 7	7511	-22.8		7512	0	7513	0	
7514	Stage 7	7515	-23		7516	0	7517	0	
7518	Stage 7	7519	-23.2		7520	0	7521	0	
7522	Stage 7	7523	-23.4		7524	0	7525	0	
7526	Stage 7	7527	-23.6		7528	0	7529	0	
7530	Stage 7	7531	-23.8		7532	0	7533	0	
7534	Stage 7	7535	-24		7536	0	7537	0	

Tabella Risultati Paratia Nominal - Stage: Stage 8

123	Design Assumption: Nominal	124	Risultati Paratia	125	Muro: LEFT	126	
127	Stage	128	z (m)	129	Momento (kN*m/m)	130	Taglio (kN/m)
7538	Stage 8	7539	0	7540	0	7541	0
7542	Stage 8	7543	-0.2	7544	0	7545	0
7546	Stage 8	7547	-0.2	7548	0	7549	0
7550	Stage 8	7551	-0.3	7552	-0.67	7553	-6.73
7554	Stage 8	7555	-0.5	7556	18.52	7557	95.95
7558	Stage 8	7559	-0.7	7560	32.41	7561	69.45
7562	Stage 8	7563	-0.9	7564	38.94	7565	32.66
7566	Stage 8	7567	-1.1	7568	41.88	7569	14.73
7570	Stage 8	7571	-1.3	7572	43.98	7573	10.5
7574	Stage 8	7575	-1.5	7576	45.02	7577	5.19
7578	Stage 8	7579	-1.7	7580	44.71	7581	-1.58
7582	Stage 8	7583	-1.9	7584	42.72	7585	-9.92
7586	Stage 8	7587	-2.1	7588	38.75	7589	-19.85
7590	Stage 8	7591	-2.3	7592	32.5	7593	-31.27
7594	Stage 8	7595	-2.5	7596	23.71	7597	-43.94
7598	Stage 8	7599	-2.7	7600	12.31	7601	-56.99
7602	Stage 8	7603	-2.9	7604	-1.36	7605	-68.38
7606	Stage 8	7607	-3	7608	-8.86	7609	-74.93
7610	Stage 8	7611	-3.2	7612	-1.66	7613	36
7614	Stage 8	7615	-3.4	7616	3.72	7617	26.87
7618	Stage 8	7619	-3.6	7620	7.16	7621	17.23
7622	Stage 8	7623	-3.8	7624	8.58	7625	7.06
7626	Stage 8	7627	-4	7628	7.85	7629	-3.62
7630	Stage 8	7631	-4.2	7632	7.13	7633	-3.62
7634	Stage 8	7635	-4.4	7636	6.41	7637	-3.62
7638	Stage 8	7639	-4.6	7640	5.68	7641	-3.62
7642	Stage 8	7643	-4.8	7644	4.96	7645	-3.62
7646	Stage 8	7647	-5	7648	4.24	7649	-3.62
7650	Stage 8	7651	-5.2	7652	3.51	7653	-3.62
7654	Stage 8	7655	-5.4	7656	2.79	7657	-3.62
7658	Stage 8	7659	-5.6	7660	2.07	7661	-3.62
7662	Stage 8	7663	-5.8	7664	1.35	7665	-3.62
7666	Stage 8	7667	-6	7668	0.62	7669	-3.62
7670	Stage 8	7671	-6.2	7672	-0.1	7673	-3.62
7674	Stage 8	7675	-6.4	7676	-0.86	7677	-3.78
7678	Stage 8	7679	-6.6	7680	-1.68	7681	-4.12
7682	Stage 8	7683	-6.8	7684	-2.61	7685	-4.64
7686	Stage 8	7687	-7	7688	-4.02	7689	-7.08
7690	Stage 8	7691	-7.2	7692	-7.1	7693	-15.38
7694	Stage 8	7695	-7.4	7696	-13.02	7697	-29.62
7698	Stage 8	7699	-7.5	7700	-17.35	7701	-43.3
7702	Stage 8	7703	-7.7	7704	-11.43	7705	29.63
7706	Stage 8	7707	-7.9	7708	-8.04	7709	16.93
7710	Stage 8	7711	-8.1	7712	-5.34	7713	13.54
7714	Stage 8	7715	-8.3	7716	-2.84	7717	12.48
7718	Stage 8	7719	-8.5	7720	-1.16	7721	8.39
7722	Stage 8	7723	-8.7	7724	-0.32	7725	4.21
7726	Stage 8	7727	-8.9	7728	-0.04	7729	1.37
7730	Stage 8	7731	-9.1	7732	0.04	7733	0.41
7734	Stage 8	7735	-9.3	7736	0.12	7737	0.41
7738	Stage 8	7739	-9.5	7740	0.2	7741	0.41
7742	Stage 8	7743	-9.7	7744	0.29	7745	0.41
7746	Stage 8	7747	-9.9	7748	0.37	7749	0.41
7750	Stage 8	7751	-10.1	7752	0.45	7753	0.41
7754	Stage 8	7755	-10.3	7756	0.53	7757	0.41
7758	Stage 8	7759	-10.5	7760	0.62	7761	0.41

123	Design Assumption: Nominal 124		Risultati Paratia		125	Muro: LEFT	126
	127	Stage	128	Z (m)	129	Momento (kN*m/m) 130	Taglio (kN/m)
	7762	Stage 8	7763	-10.7		7764 0.7	7765 0.41
	7766	Stage 8	7767	-10.9		7768 0.78	7769 0.41
	7770	Stage 8	7771	-11.1		7772 0.86	7773 0.41
	7774	Stage 8	7775	-11.3		7776 0.95	7777 0.41
	7778	Stage 8	7779	-11.5		7780 1.03	7781 0.41
	7782	Stage 8	7783	-11.7		7784 1.11	7785 0.41
	7786	Stage 8	7787	-11.9		7788 1.19	7789 0.41
	7790	Stage 8	7791	-12		7792 1.24	7793 0.41
	7794	Stage 8	7795	-12.2		7796 1.32	7797 0.41
	7798	Stage 8	7799	-12.4		7800 0.73	7801 -2.95
	7802	Stage 8	7803	-12.6		7804 -1.45	7805 -10.91
	7806	Stage 8	7807	-12.8		7808 -2.07	7809 -3.09
	7810	Stage 8	7811	-13		7812 -1.85	7813 1.13
	7814	Stage 8	7815	-13.2		7816 -1.31	7817 2.66
	7818	Stage 8	7819	-13.4		7820 -0.78	7821 2.66
	7822	Stage 8	7823	-13.6		7824 -0.38	7825 2.01
	7826	Stage 8	7827	-13.8		7828 -0.13	7829 1.25
	7830	Stage 8	7831	-14		7832 -0.01	7833 0.63
	7834	Stage 8	7835	-14.2		7836 0.04	7837 0.23
	7838	Stage 8	7839	-14.4		7840 0.04	7841 0.01
	7842	Stage 8	7843	-14.6		7844 0.03	7845 -0.08
	7846	Stage 8	7847	-14.8		7848 0.01	7849 -0.09
	7850	Stage 8	7851	-15		7852 -0.01	7853 -0.07
	7854	Stage 8	7855	-15.2		7856 -0.01	7857 -0.04
	7858	Stage 8	7859	-15.4		7860 -0.02	7861 -0.02
	7862	Stage 8	7863	-15.6		7864 -0.02	7865 0
	7866	Stage 8	7867	-15.8		7868 -0.02	7869 0.01
	7870	Stage 8	7871	-16		7872 -0.01	7873 0.01
	7874	Stage 8	7875	-16.2		7876 -0.01	7877 0.01
	7878	Stage 8	7879	-16.4		7880 -0.01	7881 0.01
	7882	Stage 8	7883	-16.6		7884 -0.01	7885 0.01
	7886	Stage 8	7887	-16.8		7888 -0.01	7889 0
	7890	Stage 8	7891	-17		7892 -0.01	7893 0
	7894	Stage 8	7895	-17.2		7896 -0.01	7897 0
	7898	Stage 8	7899	-17.4		7900 -0.01	7901 0
	7902	Stage 8	7903	-17.6		7904 -0.01	7905 0
	7906	Stage 8	7907	-17.8		7908 0	7909 0
	7910	Stage 8	7911	-18		7912 0	7913 0
	7914	Stage 8	7915	-18.2		7916 0	7917 0
	7918	Stage 8	7919	-18.4		7920 0	7921 0
	7922	Stage 8	7923	-18.6		7924 0	7925 0
	7926	Stage 8	7927	-18.8		7928 0	7929 0
	7930	Stage 8	7931	-19		7932 0	7933 0
	7934	Stage 8	7935	-19.2		7936 0	7937 0
	7938	Stage 8	7939	-19.4		7940 0	7941 0
	7942	Stage 8	7943	-19.6		7944 -0.01	7945 -0.01
	7946	Stage 8	7947	-19.8		7948 -0.01	7949 -0.01
	7950	Stage 8	7951	-20		7952 -0.01	7953 0
	7954	Stage 8	7955	-20.2		7956 -0.01	7957 0.01
	7958	Stage 8	7959	-20.4		7960 0	7961 0.01
	7962	Stage 8	7963	-20.6		7964 0	7965 0.01
	7966	Stage 8	7967	-20.8		7968 0	7969 0.01
	7970	Stage 8	7971	-21		7972 0	7973 0
	7974	Stage 8	7975	-21.2		7976 0	7977 0
	7978	Stage 8	7979	-21.4		7980 0	7981 0
	7982	Stage 8	7983	-21.6		7984 0	7985 0
	7986	Stage 8	7987	-21.8		7988 0	7989 0
	7990	Stage 8	7991	-22		7992 0	7993 0
	7994	Stage 8	7995	-22.2		7996 0	7997 0
	7998	Stage 8	7999	-22.4		8000 0	8001 0

123		Design Assumption: Nominal 124		Risultati Paratia		125		Muro: LEFT		126	
127	Stage	128	Z (m)	129	Momento (kN*m/m)	130	Taglio (kN/m)				
8002	Stage 8	8003	-22.6		8004	0	8005	0			
8006	Stage 8	8007	-22.8		8008	0	8009	0			
8010	Stage 8	8011	-23		8012	0	8013	0			
8014	Stage 8	8015	-23.2		8016	0	8017	0			
8018	Stage 8	8019	-23.4		8020	0	8021	0			
8022	Stage 8	8023	-23.6		8024	0	8025	0			
8026	Stage 8	8027	-23.8		8028	0	8029	0			
8030	Stage 8	8031	-24		8032	0	8033	0			

Tabella Risultati Paratia Nominal - Stage: Stage 9

131	Design Assumption: Nominal 132		Risultati Paratia		133	Muro: LEFT	134		
	135	Stage	136	Z (m)	137	Momento (kN*m/m)	138	Taglio (kN/m)	
	8034	Stage 9	8035	0		8036	0	8037	0
	8038	Stage 9	8039	-0.2		8040	0	8041	0
	8042	Stage 9	8043	-0.2		8044	0	8045	0
	8046	Stage 9	8047	-0.3		8048	-0.67	8049	-6.73
	8050	Stage 9	8051	-0.5		8052	18.52	8053	95.95
	8054	Stage 9	8055	-0.7		8056	32.41	8057	69.45
	8058	Stage 9	8059	-0.9		8060	38.94	8061	32.66
	8062	Stage 9	8063	-1.1		8064	41.88	8065	14.73
	8066	Stage 9	8067	-1.3		8068	43.98	8069	10.5
	8070	Stage 9	8071	-1.5		8072	45.02	8073	5.19
	8074	Stage 9	8075	-1.7		8076	44.71	8077	-1.58
	8078	Stage 9	8079	-1.9		8080	42.72	8081	-9.92
	8082	Stage 9	8083	-2.1		8084	38.75	8085	-19.85
	8086	Stage 9	8087	-2.3		8088	32.5	8089	-31.27
	8090	Stage 9	8091	-2.5		8092	23.71	8093	-43.94
	8094	Stage 9	8095	-2.7		8096	12.31	8097	-56.99
	8098	Stage 9	8099	-2.9		8100	-1.36	8101	-68.38
	8102	Stage 9	8103	-3		8104	-8.86	8105	-74.93
	8106	Stage 9	8107	-3.2		8108	-1.66	8109	36
	8110	Stage 9	8111	-3.4		8112	3.72	8113	26.87
	8114	Stage 9	8115	-3.6		8116	7.16	8117	17.23
	8118	Stage 9	8119	-3.8		8120	8.58	8121	7.06
	8122	Stage 9	8123	-4		8124	7.85	8125	-3.62
	8126	Stage 9	8127	-4.2		8128	7.13	8129	-3.62
	8130	Stage 9	8131	-4.4		8132	6.41	8133	-3.62
	8134	Stage 9	8135	-4.6		8136	5.68	8137	-3.62
	8138	Stage 9	8139	-4.8		8140	4.96	8141	-3.62
	8142	Stage 9	8143	-5		8144	4.24	8145	-3.62
	8146	Stage 9	8147	-5.2		8148	3.51	8149	-3.62
	8150	Stage 9	8151	-5.4		8152	2.79	8153	-3.62
	8154	Stage 9	8155	-5.6		8156	2.07	8157	-3.62
	8158	Stage 9	8159	-5.8		8160	1.34	8161	-3.61
	8162	Stage 9	8163	-6		8164	0.62	8165	-3.61
	8166	Stage 9	8167	-6.2		8168	-0.1	8169	-3.61
	8170	Stage 9	8171	-6.4		8172	-0.85	8173	-3.77
	8174	Stage 9	8175	-6.6		8176	-1.67	8177	-4.1
	8178	Stage 9	8179	-6.8		8180	-2.6	8181	-4.62
	8182	Stage 9	8183	-7		8184	-4.01	8185	-7.05
	8186	Stage 9	8187	-7.2		8188	-7.08	8189	-15.36
	8190	Stage 9	8191	-7.4		8192	-13.01	8193	-29.62
	8194	Stage 9	8195	-7.5		8196	-17.34	8197	-43.33
	8198	Stage 9	8199	-7.7		8200	-11.43	8201	29.54
	8202	Stage 9	8203	-7.9		8204	-8.08	8205	16.75
	8206	Stage 9	8207	-8.1		8208	-5.44	8209	13.22
	8210	Stage 9	8211	-8.3		8212	-3.03	8213	12.02
	8214	Stage 9	8215	-8.5		8216	-1.47	8217	7.84
	8218	Stage 9	8219	-8.7		8220	-0.72	8221	3.73
	8222	Stage 9	8223	-8.9		8224	-0.46	8225	1.31
	8226	Stage 9	8227	-9.1		8228	-0.19	8229	1.33
	8230	Stage 9	8231	-9.3		8232	0.07	8233	1.33
	8234	Stage 9	8235	-9.5		8236	0.34	8237	1.33
	8238	Stage 9	8239	-9.7		8240	0.61	8241	1.33
	8242	Stage 9	8243	-9.9		8244	0.87	8245	1.33
	8246	Stage 9	8247	-10.1		8248	1.14	8249	1.33
	8250	Stage 9	8251	-10.3		8252	1.41	8253	1.33
	8254	Stage 9	8255	-10.5		8256	1.67	8257	1.33

131	Design Assumption: Nominal 132	Risultati Paratia	133	Muro: LEFT	134	
135	Stage	136	Z (m)	137	Momento (kN*m/m) 138	Taglio (kN/m)
8258	Stage 9	8259	-10.7	8260	1.94	8261 1.33
8262	Stage 9	8263	-10.9	8264	2.21	8265 1.33
8266	Stage 9	8267	-11.1	8268	2.47	8269 1.33
8270	Stage 9	8271	-11.3	8272	2.64	8273 0.83
8274	Stage 9	8275	-11.5	8276	1.99	8277 -3.23
8278	Stage 9	8279	-11.7	8280	-0.35	8281 -11.74
8282	Stage 9	8283	-11.9	8284	-5.38	8285 -25.11
8286	Stage 9	8287	-12	8288	-9.17	8289 -37.95
8290	Stage 9	8291	-12.2	8292	-2.1	8293 35.35
8294	Stage 9	8295	-12.4	8296	1.23	8297 16.68
8298	Stage 9	8299	-12.6	8300	0.85	8301 -1.92
8302	Stage 9	8303	-12.8	8304	0.39	8305 -2.31
8306	Stage 9	8307	-13	8308	0.06	8309 -1.66
8310	Stage 9	8311	-13.2	8312	-0.12	8313 -0.9
8314	Stage 9	8315	-13.4	8316	-0.19	8317 -0.31
8318	Stage 9	8319	-13.6	8320	-0.18	8321 0.03
8322	Stage 9	8323	-13.8	8324	-0.14	8325 0.18
8326	Stage 9	8327	-14	8328	-0.1	8329 0.21
8330	Stage 9	8331	-14.2	8332	-0.07	8333 0.18
8334	Stage 9	8335	-14.4	8336	-0.04	8337 0.12
8338	Stage 9	8339	-14.6	8340	-0.03	8341 0.08
8342	Stage 9	8343	-14.8	8344	-0.02	8345 0.04
8346	Stage 9	8347	-15	8348	-0.02	8349 0.02
8350	Stage 9	8351	-15.2	8352	-0.01	8353 0.01
8354	Stage 9	8355	-15.4	8356	-0.01	8357 0
8358	Stage 9	8359	-15.6	8360	-0.01	8361 0
8362	Stage 9	8363	-15.8	8364	-0.01	8365 0
8366	Stage 9	8367	-16	8368	-0.01	8369 0
8370	Stage 9	8371	-16.2	8372	-0.01	8373 0
8374	Stage 9	8375	-16.4	8376	-0.01	8377 0
8378	Stage 9	8379	-16.6	8380	-0.01	8381 0
8382	Stage 9	8383	-16.8	8384	-0.01	8385 0
8386	Stage 9	8387	-17	8388	-0.01	8389 0
8390	Stage 9	8391	-17.2	8392	-0.01	8393 0
8394	Stage 9	8395	-17.4	8396	-0.01	8397 0
8398	Stage 9	8399	-17.6	8400	-0.01	8401 0
8402	Stage 9	8403	-17.8	8404	0	8405 0
8406	Stage 9	8407	-18	8408	0	8409 0
8410	Stage 9	8411	-18.2	8412	0	8413 0
8414	Stage 9	8415	-18.4	8416	0	8417 0
8418	Stage 9	8419	-18.6	8420	0	8421 0
8422	Stage 9	8423	-18.8	8424	0	8425 0
8426	Stage 9	8427	-19	8428	0	8429 0
8430	Stage 9	8431	-19.2	8432	0	8433 0
8434	Stage 9	8435	-19.4	8436	0	8437 0
8438	Stage 9	8439	-19.6	8440	-0.01	8441 -0.01
8442	Stage 9	8443	-19.8	8444	-0.01	8445 -0.01
8446	Stage 9	8447	-20	8448	-0.01	8449 0
8450	Stage 9	8451	-20.2	8452	-0.01	8453 0.01
8454	Stage 9	8455	-20.4	8456	0	8457 0.01
8458	Stage 9	8459	-20.6	8460	0	8461 0.01
8462	Stage 9	8463	-20.8	8464	0	8465 0.01
8466	Stage 9	8467	-21	8468	0	8469 0
8470	Stage 9	8471	-21.2	8472	0	8473 0
8474	Stage 9	8475	-21.4	8476	0	8477 0
8478	Stage 9	8479	-21.6	8480	0	8481 0
8482	Stage 9	8483	-21.8	8484	0	8485 0
8486	Stage 9	8487	-22	8488	0	8489 0
8490	Stage 9	8491	-22.2	8492	0	8493 0
8494	Stage 9	8495	-22.4	8496	0	8497 0

131		Design Assumption: Nominal 132		Risultati Paratia		133		Muro: LEFT		134	
135	Stage	136	Z (m)	137	Momento (kN*m/m)	138	Taglio (kN/m)				
8498	Stage 9	8499	-22.6		8500	0	8501	0			
8502	Stage 9	8503	-22.8		8504	0	8505	0			
8506	Stage 9	8507	-23		8508	0	8509	0			
8510	Stage 9	8511	-23.2		8512	0	8513	0			
8514	Stage 9	8515	-23.4		8516	0	8517	0			
8518	Stage 9	8519	-23.6		8520	0	8521	0			
8522	Stage 9	8523	-23.8		8524	0	8525	0			
8526	Stage 9	8527	-24		8528	0	8529	0			

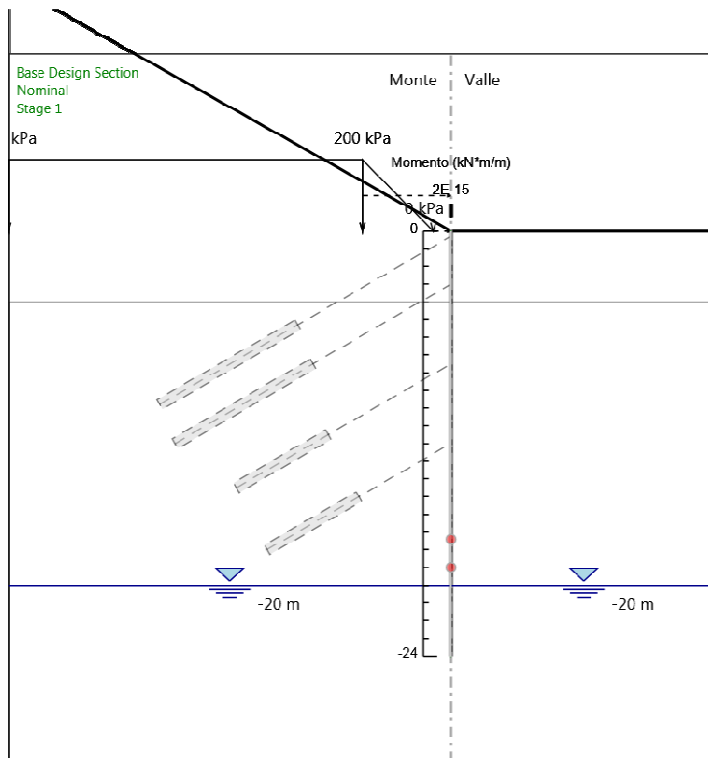
Tabella Risultati Paratia Nominal - Stage: Stage 10

139	Design Assumption: Nominal 140		Risultati Paratia 141		Muro: LEFT		142
143	Stage	144	Z (m)	145	Momento (kN*m/m) 146	146	Taglio (kN/m)
8530	Stage 10	8531	0	8532	0	8533	0
8534	Stage 10	8535	-0.2	8536	0	8537	0
8538	Stage 10	8539	-0.2	8540	0	8541	0
8542	Stage 10	8543	-0.3	8544	-0.67	8545	-6.73
8546	Stage 10	8547	-0.5	8548	18.52	8549	95.95
8550	Stage 10	8551	-0.7	8552	32.41	8553	69.45
8554	Stage 10	8555	-0.9	8556	38.94	8557	32.66
8558	Stage 10	8559	-1.1	8560	41.88	8561	14.73
8562	Stage 10	8563	-1.3	8564	43.98	8565	10.5
8566	Stage 10	8567	-1.5	8568	45.02	8569	5.19
8570	Stage 10	8571	-1.7	8572	44.71	8573	-1.58
8574	Stage 10	8575	-1.9	8576	42.72	8577	-9.92
8578	Stage 10	8579	-2.1	8580	38.75	8581	-19.85
8582	Stage 10	8583	-2.3	8584	32.5	8585	-31.27
8586	Stage 10	8587	-2.5	8588	23.71	8589	-43.94
8590	Stage 10	8591	-2.7	8592	12.31	8593	-56.99
8594	Stage 10	8595	-2.9	8596	-1.36	8597	-68.38
8598	Stage 10	8599	-3	8600	-8.86	8601	-74.93
8602	Stage 10	8603	-3.2	8604	-1.66	8605	36
8606	Stage 10	8607	-3.4	8608	3.72	8609	26.87
8610	Stage 10	8611	-3.6	8612	7.16	8613	17.22
8614	Stage 10	8615	-3.8	8616	8.58	8617	7.06
8618	Stage 10	8619	-4	8620	7.85	8621	-3.62
8622	Stage 10	8623	-4.2	8624	7.13	8625	-3.62
8626	Stage 10	8627	-4.4	8628	6.41	8629	-3.62
8630	Stage 10	8631	-4.6	8632	5.68	8633	-3.62
8634	Stage 10	8635	-4.8	8636	4.96	8637	-3.62
8638	Stage 10	8639	-5	8640	4.24	8641	-3.62
8642	Stage 10	8643	-5.2	8644	3.51	8645	-3.62
8646	Stage 10	8647	-5.4	8648	2.79	8649	-3.62
8650	Stage 10	8651	-5.6	8652	2.07	8653	-3.62
8654	Stage 10	8655	-5.8	8656	1.34	8657	-3.62
8658	Stage 10	8659	-6	8660	0.62	8661	-3.62
8662	Stage 10	8663	-6.2	8664	-0.1	8665	-3.62
8666	Stage 10	8667	-6.4	8668	-0.85	8669	-3.77
8670	Stage 10	8671	-6.6	8672	-1.67	8673	-4.1
8674	Stage 10	8675	-6.8	8676	-2.6	8677	-4.62
8678	Stage 10	8679	-7	8680	-4.01	8681	-7.05
8682	Stage 10	8683	-7.2	8684	-7.08	8685	-15.36
8686	Stage 10	8687	-7.4	8688	-13.01	8689	-29.63
8690	Stage 10	8691	-7.5	8692	-17.34	8693	-43.34
8694	Stage 10	8695	-7.7	8696	-11.43	8697	29.53
8698	Stage 10	8699	-7.9	8700	-8.09	8701	16.73
8702	Stage 10	8703	-8.1	8704	-5.45	8705	13.19
8706	Stage 10	8707	-8.3	8708	-3.05	8709	11.99
8710	Stage 10	8711	-8.5	8712	-1.49	8713	7.82
8714	Stage 10	8715	-8.7	8716	-0.74	8717	3.74
8718	Stage 10	8719	-8.9	8720	-0.46	8721	1.39
8722	Stage 10	8723	-9.1	8724	-0.19	8725	1.39
8726	Stage 10	8727	-9.3	8728	0.09	8729	1.39
8730	Stage 10	8731	-9.5	8732	0.37	8733	1.39
8734	Stage 10	8735	-9.7	8736	0.65	8737	1.39
8738	Stage 10	8739	-9.9	8740	0.92	8741	1.39
8742	Stage 10	8743	-10.1	8744	1.2	8745	1.39
8746	Stage 10	8747	-10.3	8748	1.48	8749	1.39
8750	Stage 10	8751	-10.5	8752	1.75	8753	1.39

139	Design Assumption: Nominal 140		Risultati Paratia		141	Muro: LEFT	142
143	Stage	144	Z (m)	145	Momento (kN*m/m)	146	Taglio (kN/m)
8754	Stage 10	8755	-10.7		8756	2.03	8757 1.39
8758	Stage 10	8759	-10.9		8760	2.28	8761 1.24
8762	Stage 10	8763	-11.1		8764	2.46	8765 0.9
8766	Stage 10	8767	-11.3		8768	2.42	8769 -0.19
8770	Stage 10	8771	-11.5		8772	1.41	8773 -5.06
8774	Stage 10	8775	-11.7		8776	-1.48	8777 -14.47
8778	Stage 10	8779	-11.9		8780	-7.17	8781 -28.45
8782	Stage 10	8783	-12		8784	-11.28	8785 -41.05
8786	Stage 10	8787	-12.2		8788	-4.65	8789 33.13
8790	Stage 10	8791	-12.4		8792	-1.01	8793 18.2
8794	Stage 10	8795	-12.6		8796	0.46	8797 7.35
8798	Stage 10	8799	-12.8		8800	0.73	8801 1.36
8802	Stage 10	8803	-13		8804	0.75	8805 0.09
8806	Stage 10	8807	-13.2		8808	0.77	8809 0.09
8810	Stage 10	8811	-13.4		8812	0.79	8813 0.09
8814	Stage 10	8815	-13.6		8816	0.8	8817 0.09
8818	Stage 10	8819	-13.8		8820	0.82	8821 0.09
8822	Stage 10	8823	-14		8824	0.84	8825 0.09
8826	Stage 10	8827	-14.2		8828	0.86	8829 0.09
8830	Stage 10	8831	-14.4		8832	0.88	8833 0.09
8834	Stage 10	8835	-14.6		8836	0.89	8837 0.09
8838	Stage 10	8839	-14.8		8840	0.91	8841 0.09
8842	Stage 10	8843	-15		8844	0.93	8845 0.09
8846	Stage 10	8847	-15.2		8848	0.95	8849 0.09
8850	Stage 10	8851	-15.4		8852	0.97	8853 0.09
8854	Stage 10	8855	-15.6		8856	0.98	8857 0.09
8858	Stage 10	8859	-15.8		8860	1	8861 0.09
8862	Stage 10	8863	-16		8864	1.02	8865 0.09
8866	Stage 10	8867	-16.2		8868	1.04	8869 0.09
8870	Stage 10	8871	-16.4		8872	1.05	8873 0.09
8874	Stage 10	8875	-16.6		8876	1.07	8877 0.09
8878	Stage 10	8879	-16.8		8880	0.49	8881 -2.93
8882	Stage 10	8883	-17		8884	-1.82	8885 -11.55
8886	Stage 10	8887	-17.2		8888	-2.52	8889 -3.47
8890	Stage 10	8891	-17.4		8892	-2.18	8893 1.68
8894	Stage 10	8895	-17.6		8896	-1.5	8897 3.41
8898	Stage 10	8899	-17.8		8900	-0.85	8901 3.24
8902	Stage 10	8903	-18		8904	-0.39	8905 2.33
8906	Stage 10	8907	-18.2		8908	-0.11	8909 1.37
8910	Stage 10	8911	-18.4		8912	0.01	8913 0.64
8914	Stage 10	8915	-18.6		8916	0.05	8917 0.18
8918	Stage 10	8919	-18.8		8920	0.04	8921 -0.04
8922	Stage 10	8923	-19		8924	0.02	8925 -0.11
8926	Stage 10	8927	-19.2		8928	0	8929 -0.11
8930	Stage 10	8931	-19.4		8932	-0.02	8933 -0.09
8934	Stage 10	8935	-19.6		8936	-0.03	8937 -0.06
8938	Stage 10	8939	-19.8		8940	-0.04	8941 -0.04
8942	Stage 10	8943	-20		8944	-0.04	8945 -0.01
8946	Stage 10	8947	-20.2		8948	-0.03	8949 0.05
8950	Stage 10	8951	-20.4		8952	-0.02	8953 0.05
8954	Stage 10	8955	-20.6		8956	-0.01	8957 0.04
8958	Stage 10	8959	-20.8		8960	-0.01	8961 0.03
8962	Stage 10	8963	-21		8964	0	8965 0.02
8966	Stage 10	8967	-21.2		8968	0	8969 0.01
8970	Stage 10	8971	-21.4		8972	0	8973 0
8974	Stage 10	8975	-21.6		8976	0	8977 0
8978	Stage 10	8979	-21.8		8980	0	8981 0
8982	Stage 10	8983	-22		8984	0	8985 0
8986	Stage 10	8987	-22.2		8988	0	8989 0
8990	Stage 10	8991	-22.4		8992	0	8993 0

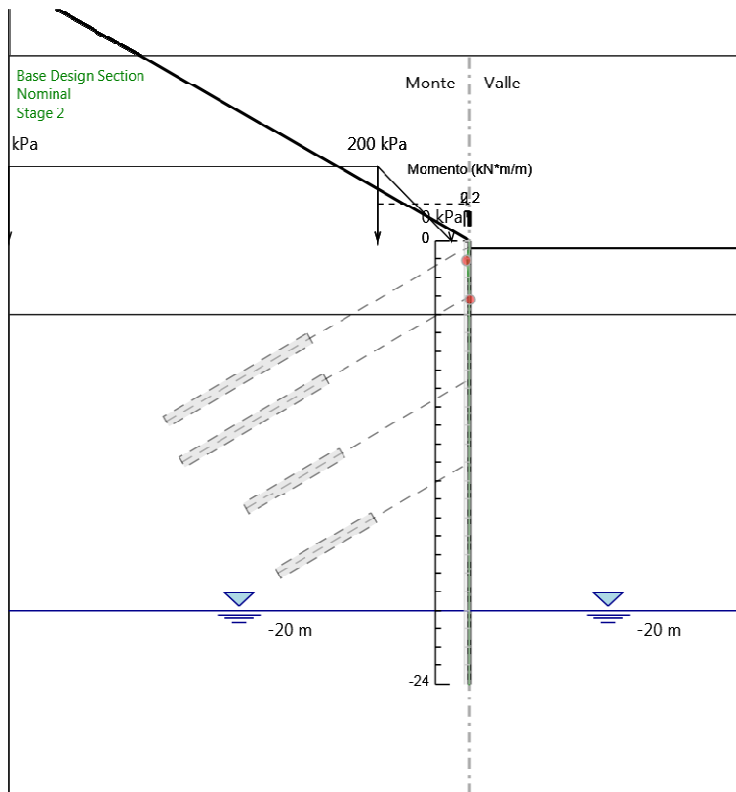
139		Design Assumption: Nominal 140		Risultati Paratia 141		Muro: LEFT 142	
143	Stage	144	Z (m)	145	Momento (kN*m/m) 146	Taglio (kN/m)	
8994	Stage 10	8995	-22.6	8996	0	8997	0
8998	Stage 10	8999	-22.8	9000	0	9001	0
9002	Stage 10	9003	-23	9004	0	9005	0
9006	Stage 10	9007	-23.2	9008	0	9009	0
9010	Stage 10	9011	-23.4	9012	0	9013	0
9014	Stage 10	9015	-23.6	9016	0	9017	0
9018	Stage 10	9019	-23.8	9020	0	9021	0
9022	Stage 10	9023	-24	9024	0	9025	0

Grafico Momento Nominal - Stage: Stage 1



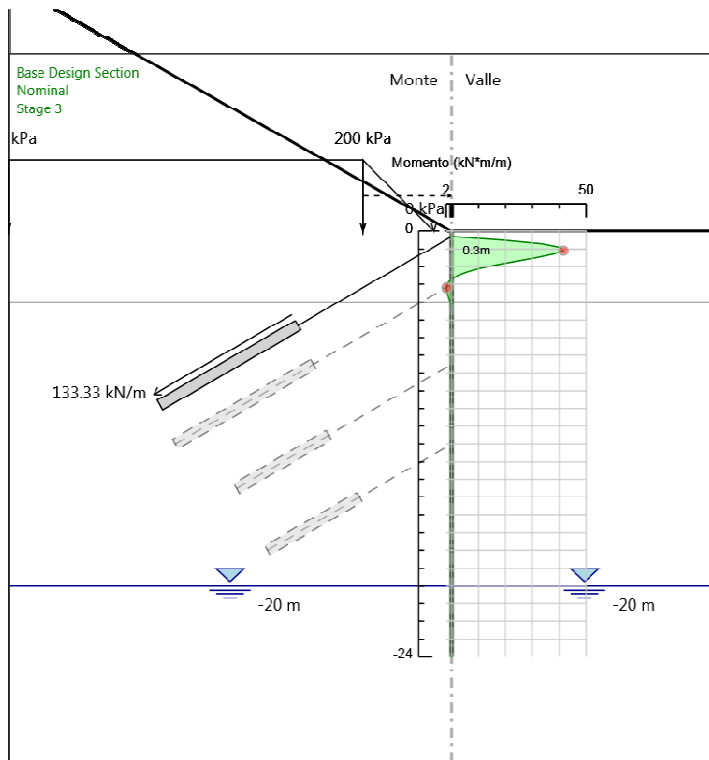
- 43.
- 44. Design Assumption: Nominal
- 45. Stage: Stage 1
- 46. Momento

Grafico Momento Nominal - Stage: Stage 2



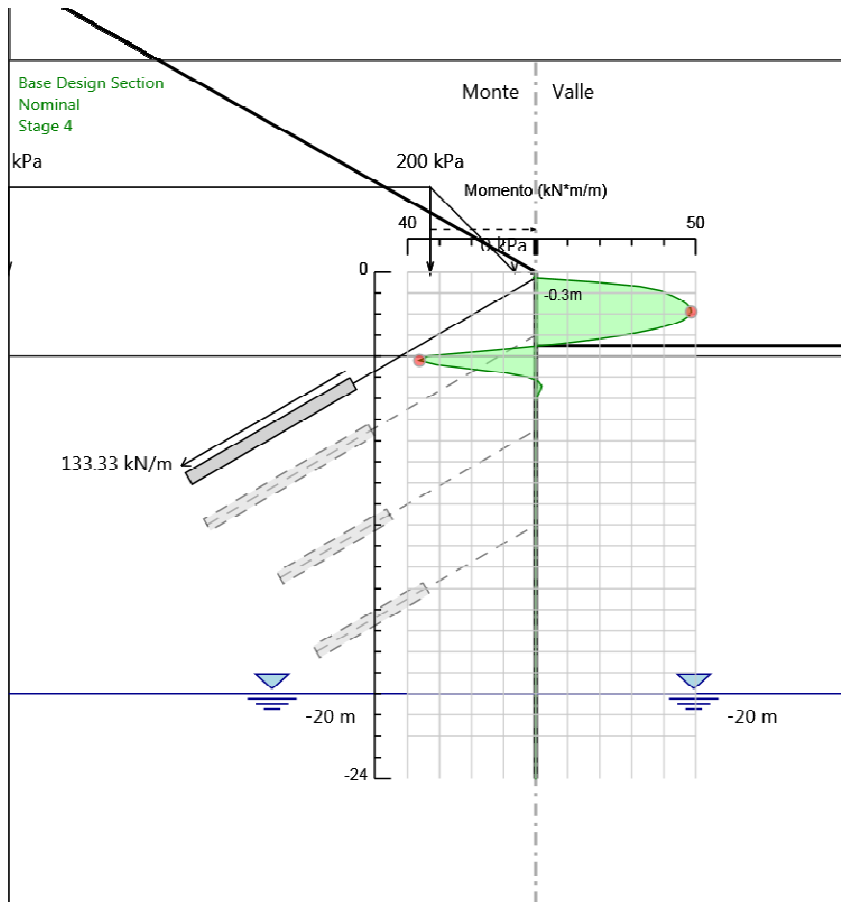
- 47.
- 48. Design Assumption: Nominal
- 49. Stage: Stage 2
- 50. Momento

Grafico Momento Nominal - Stage: Stage 3



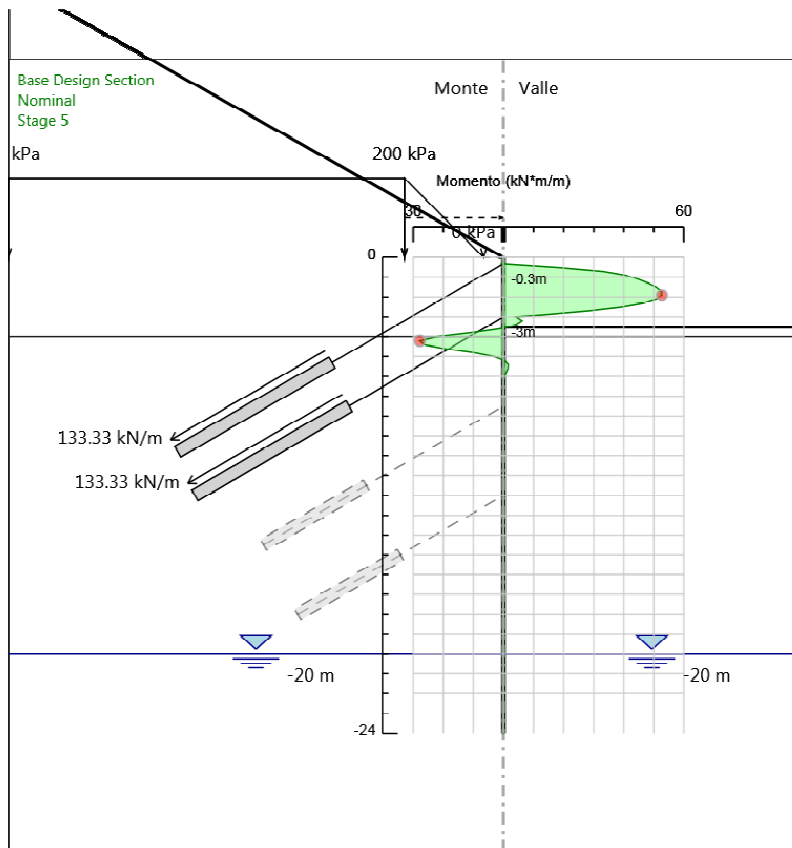
- 51.
- 52. Design Assumption: Nominal
- 53. Stage: Stage 3
- 54. Momento

Grafico Momento Nominal - Stage: Stage 4



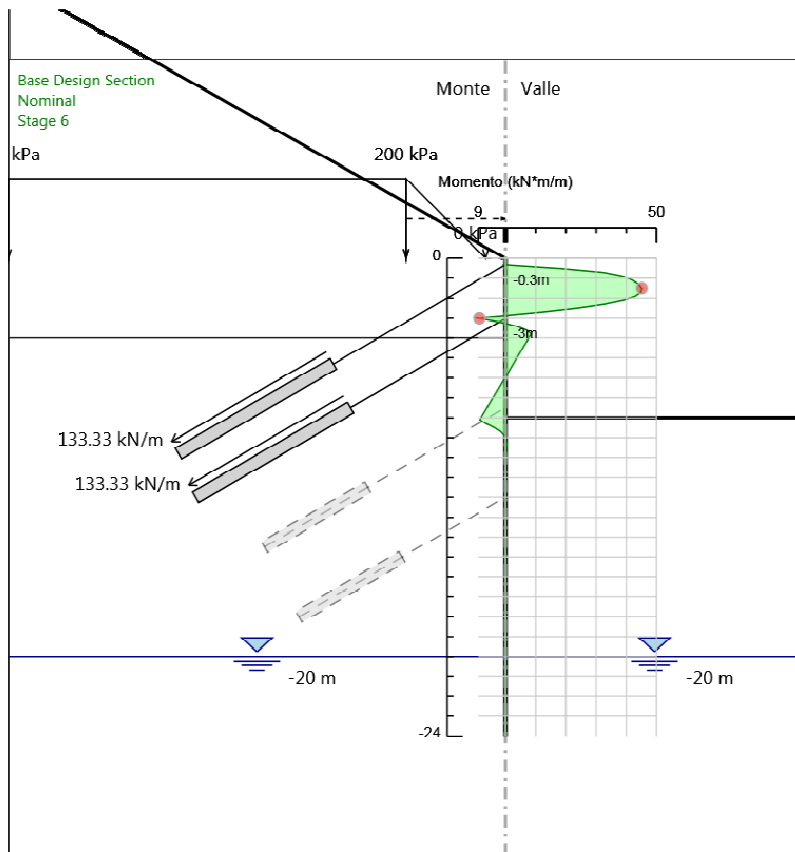
- 55.
- 56. Design Assumption: Nominal
- 57. Stage: Stage 4
- 58. Momento

Grafico Momento Nominal - Stage: Stage 5



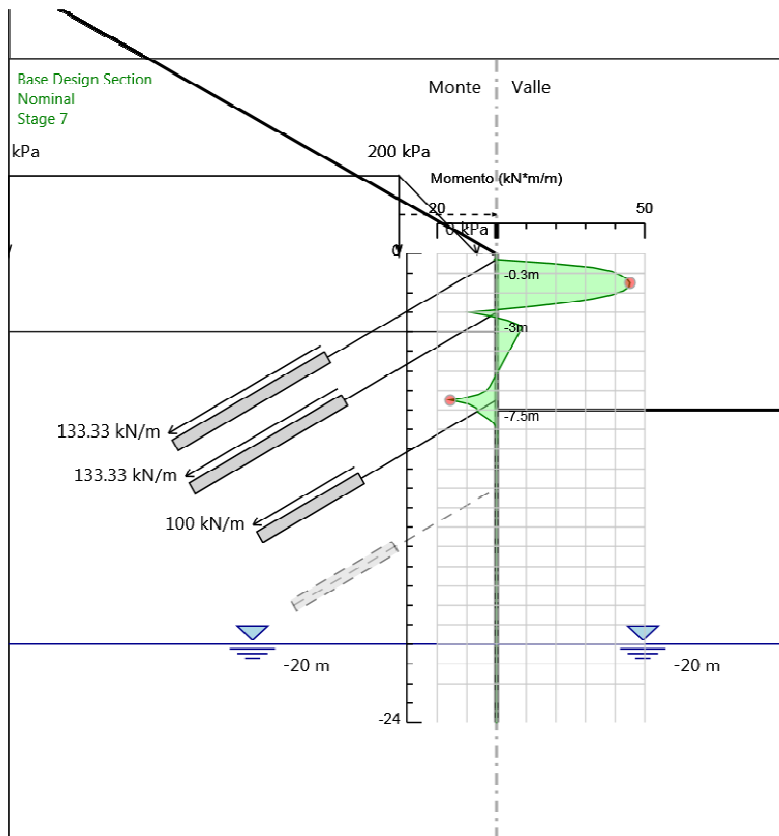
- 59.
- 60. Design Assumption: Nominal
- 61. Stage: Stage 5
- 62. Momento

Grafico Momento Nominal - Stage: Stage 6



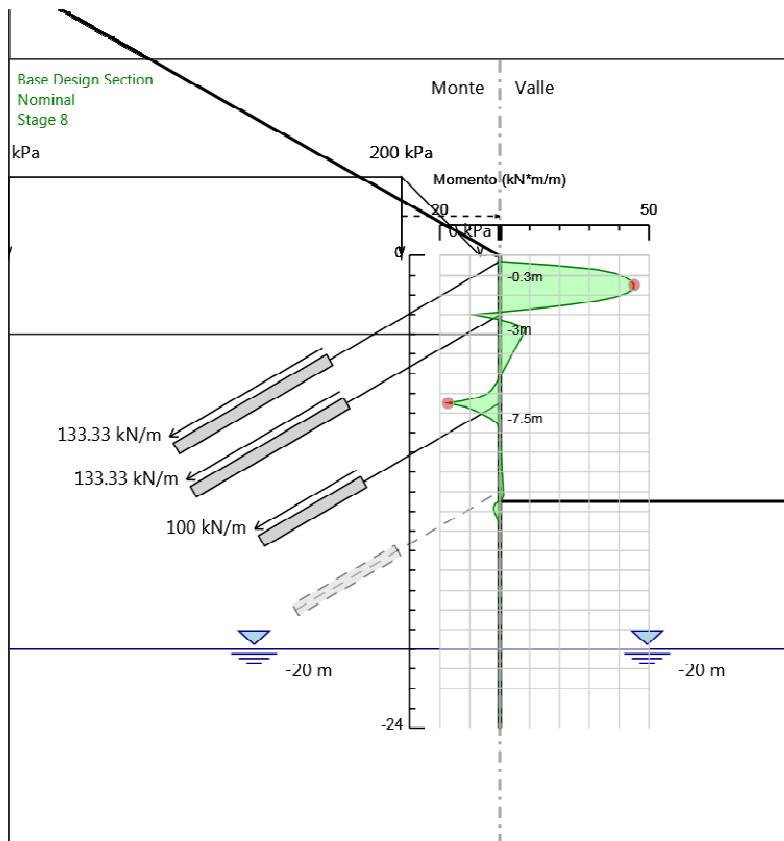
- 63.
- 64. Design Assumption: Nominal
- 65. Stage: Stage 6
- 66. Momento

Grafico Momento Nominal - Stage: Stage 7



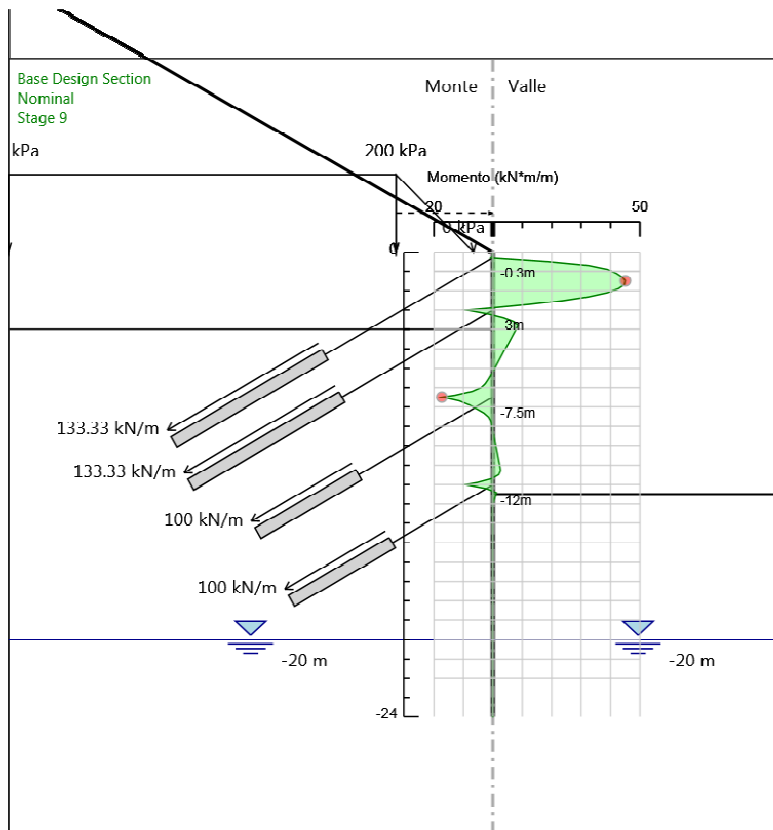
- 67.
- 68. Design Assumption: Nominal
- 69. Stage: Stage 7
- 70. Momento

Grafico Momento Nominal - Stage: Stage 8



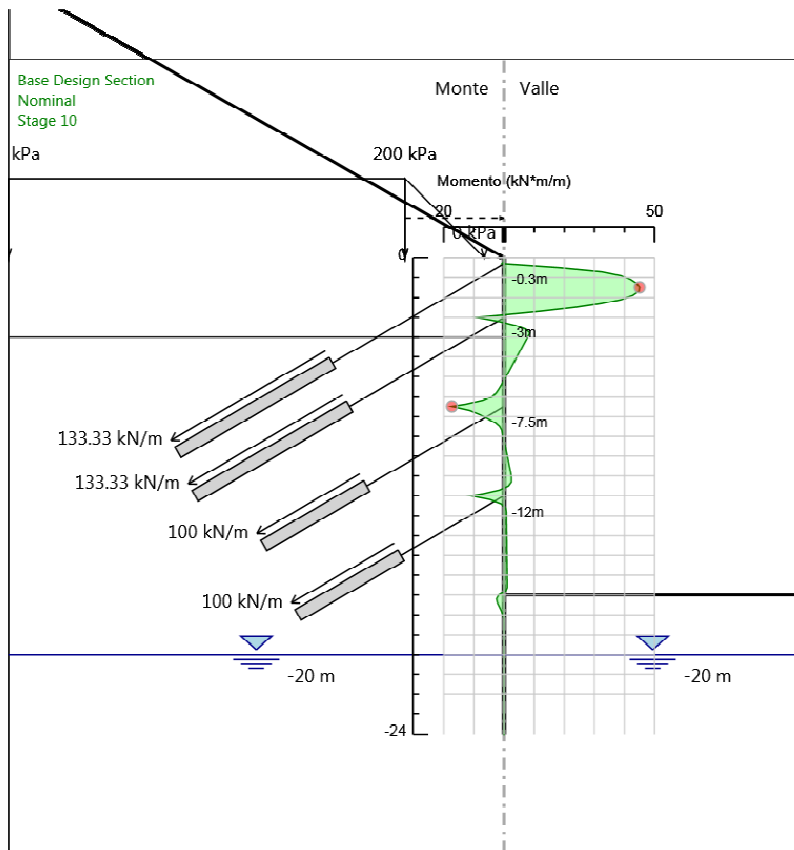
- 71.
- 72. Design Assumption: Nominal
- 73. Stage: Stage 8
- 74. Momento

Grafico Momento Nominal - Stage: Stage 9



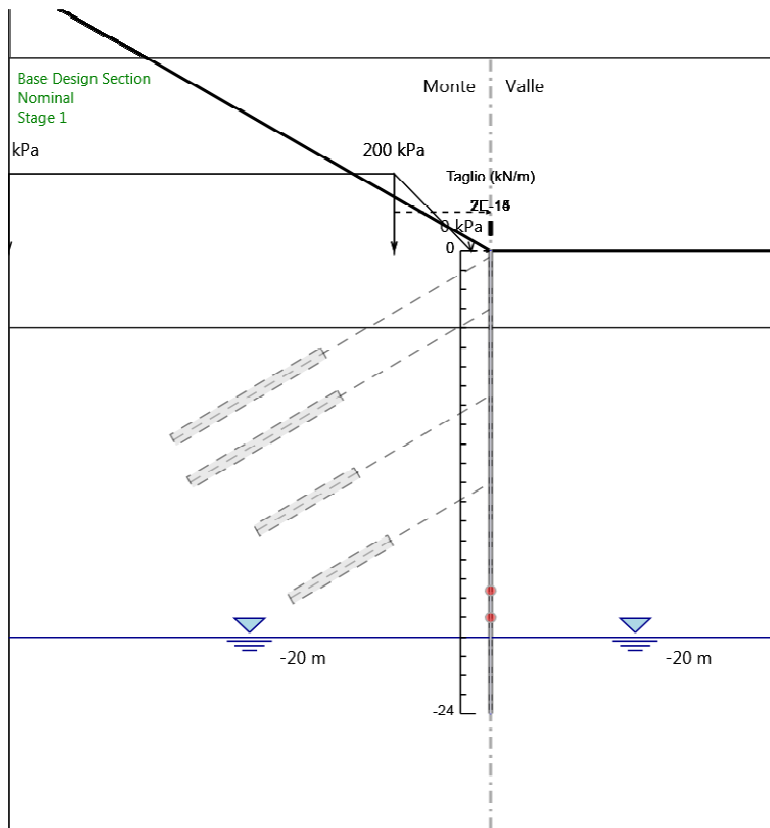
- 75.
- 76. Design Assumption: Nominal
- 77. Stage: Stage 9
- 78. Momento

Grafico Momento Nominal - Stage: Stage 10



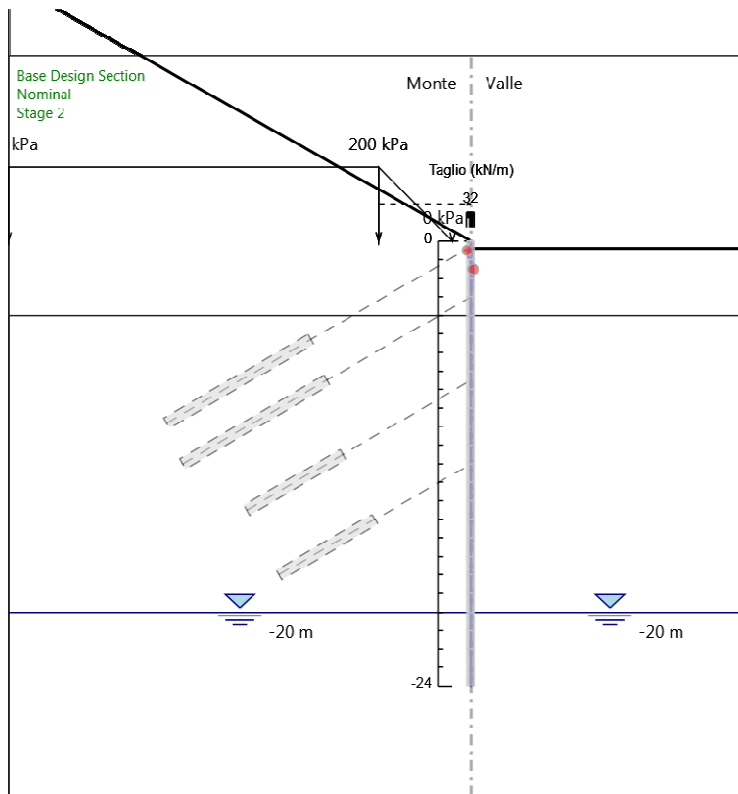
- 79.
- 80. Design Assumption: Nominal
- 81. Stage: Stage 10
- 82. Momento

Grafico Taglio Nominal - Stage: Stage 1



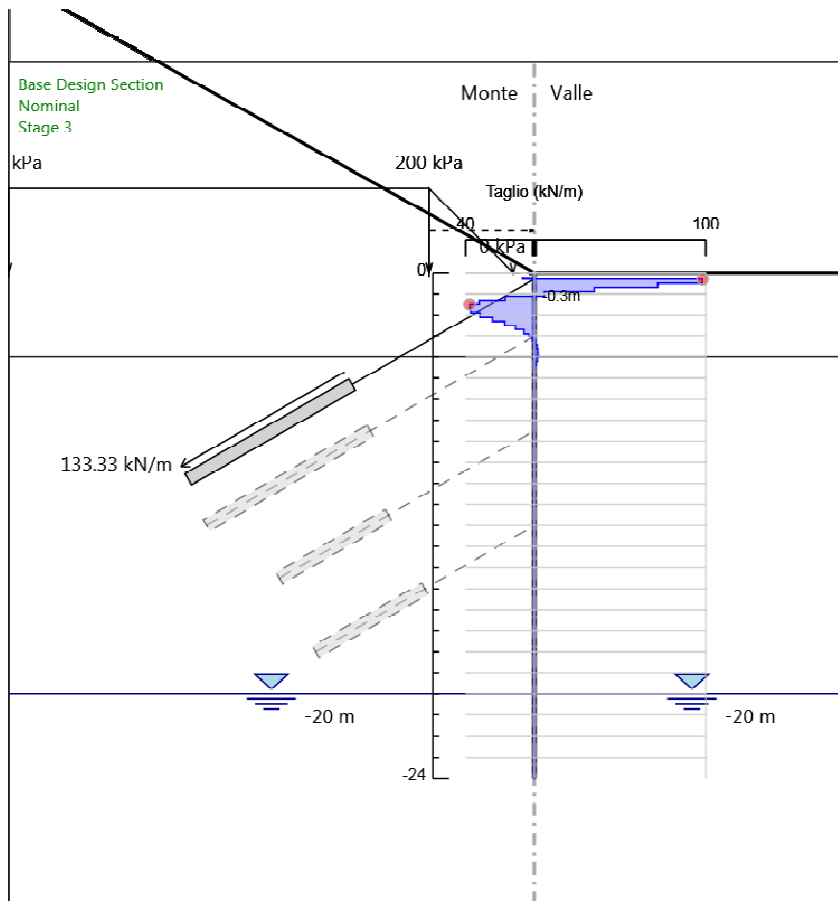
- 83.
- 84. Design Assumption: Nominal
- 85. Stage: Stage 1
- 86. Taglio

Grafico Taglio Nominal - Stage: Stage 2



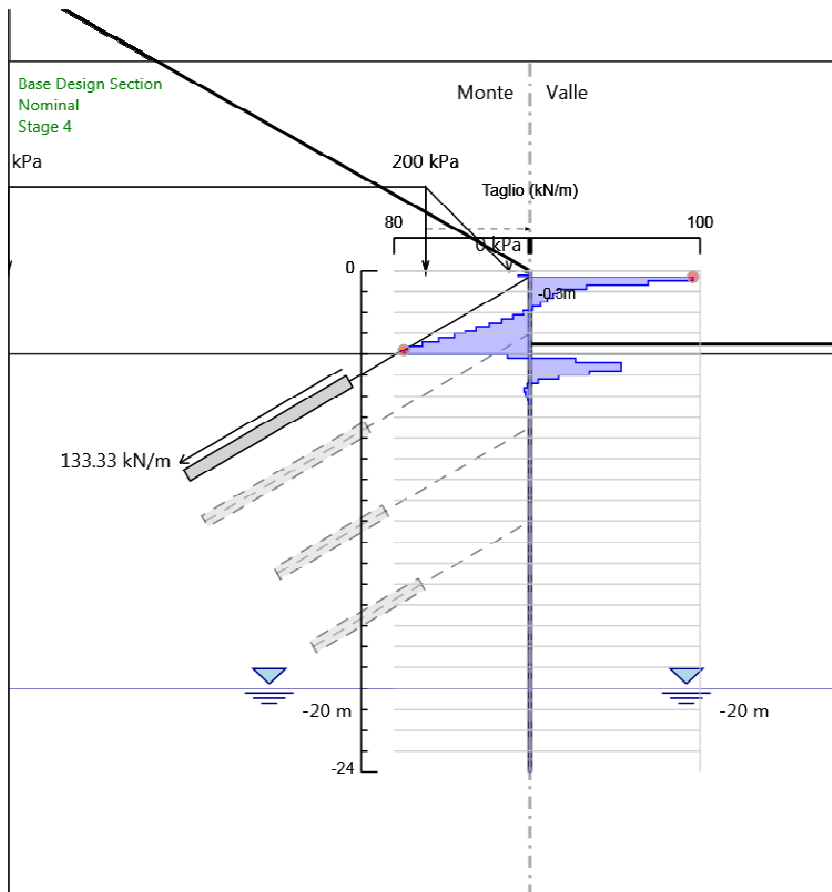
- 87.
- 88. Design Assumption: Nominal
- 89. Stage: Stage 2
- 90. Taglio

Grafico Taglio Nominal - Stage: Stage 3



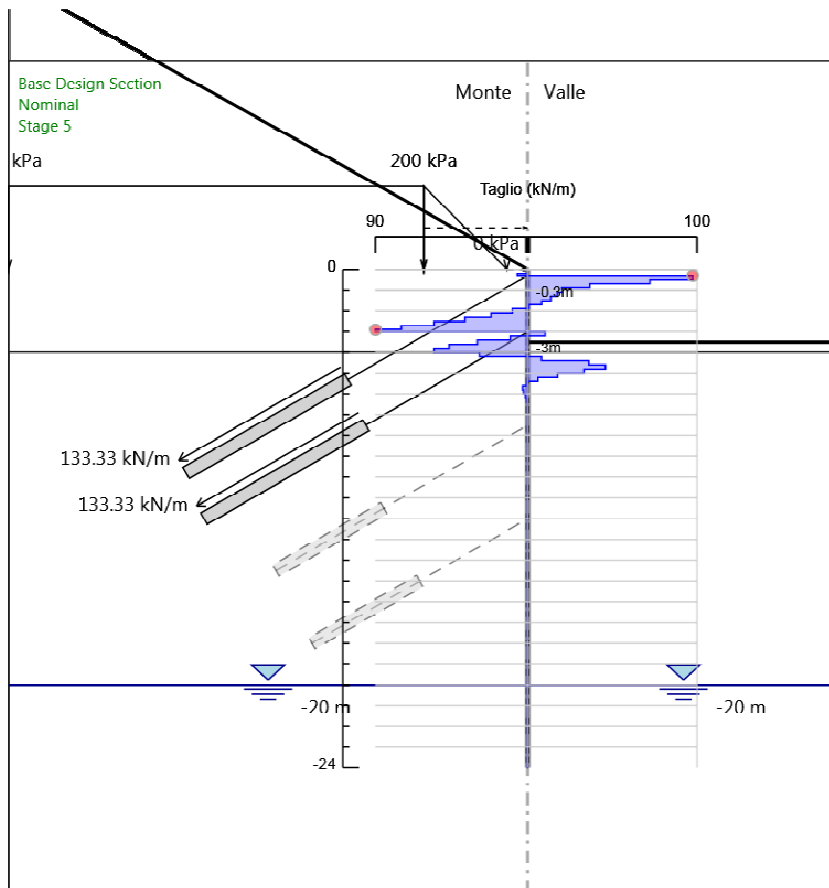
- 91.
- 92. Design Assumption: Nominal
- 93. Stage: Stage 3
- 94. Taglio

Grafico Taglio Nominal - Stage: Stage 4



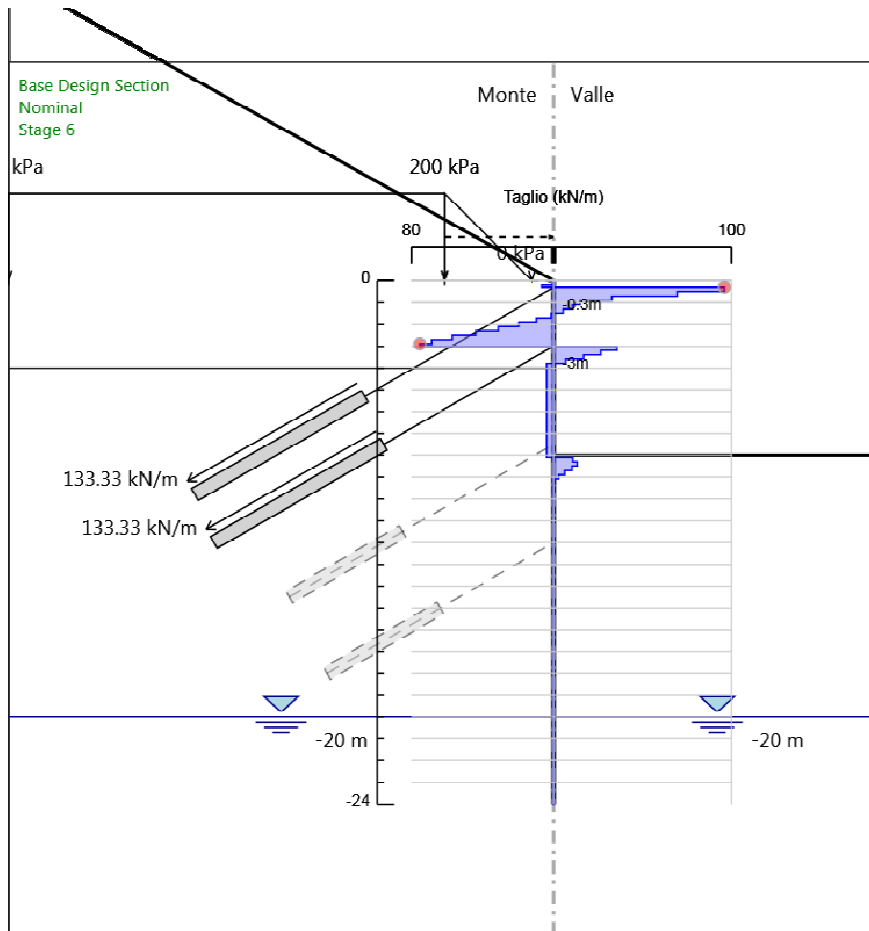
- 95.
- 96. Design Assumption: Nominal
- 97. Stage: Stage 4
- 98. Taglio

Grafico Taglio Nominal - Stage: Stage 5



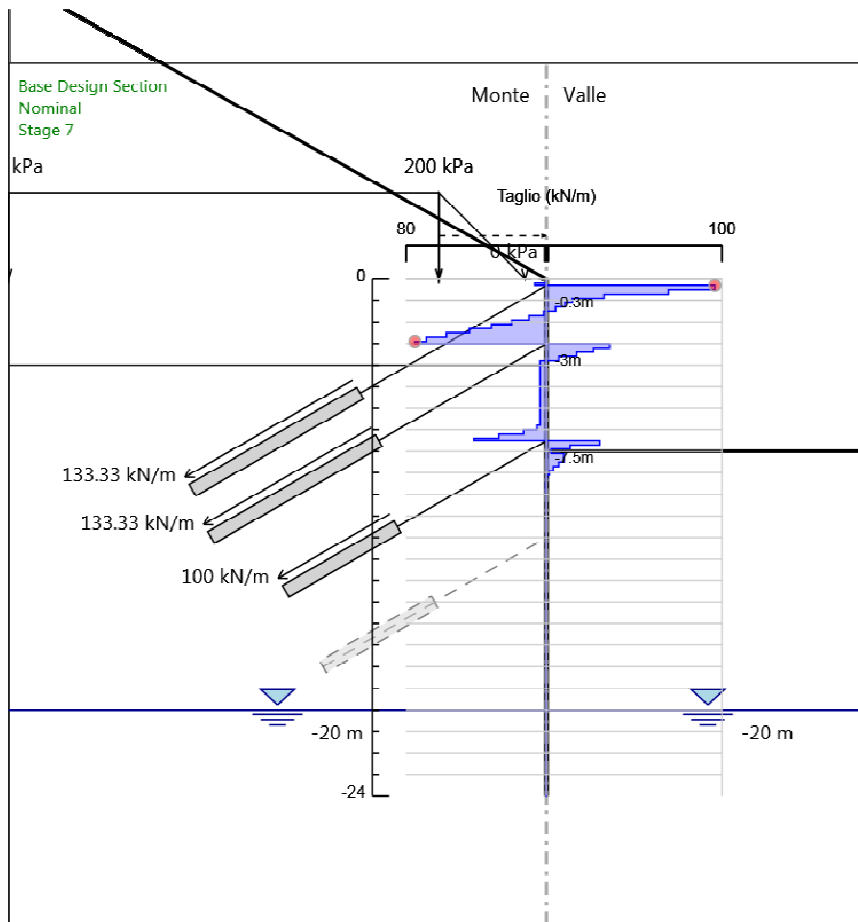
- 99.
- 100. Design Assumption: Nominal
- 101. Stage: Stage 5
- 102. Taglio

Grafico Taglio Nominal - Stage: Stage 6



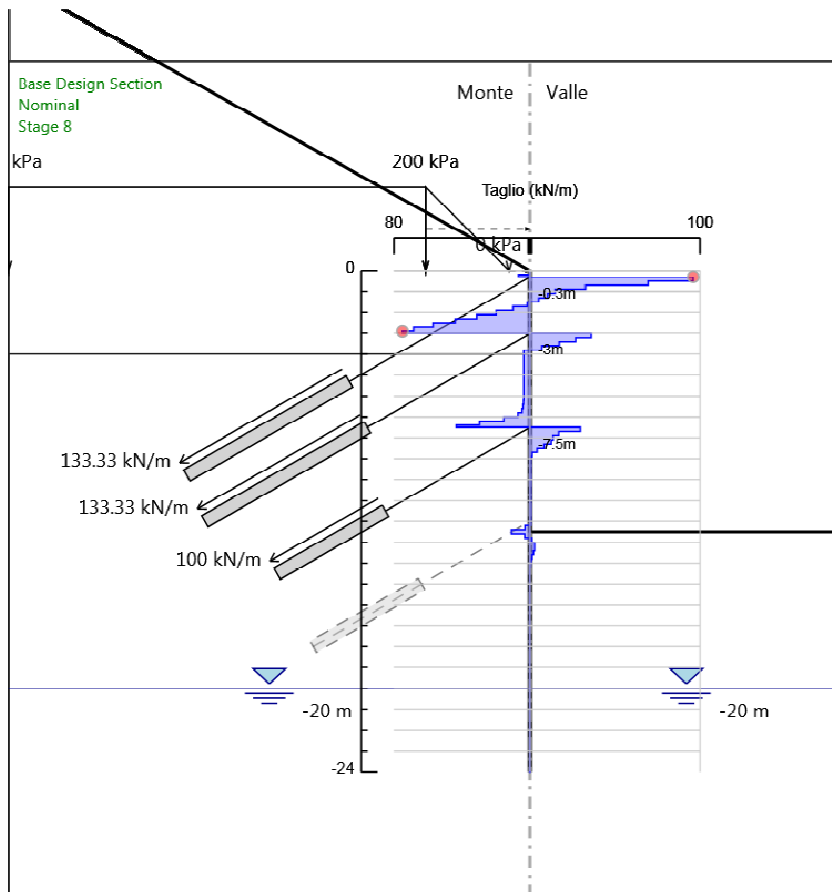
- 103.
- 104. Design Assumption: Nominal
- 105. Stage: Stage 6
- 106. Taglio

Grafico Taglio Nominal - Stage: Stage 7



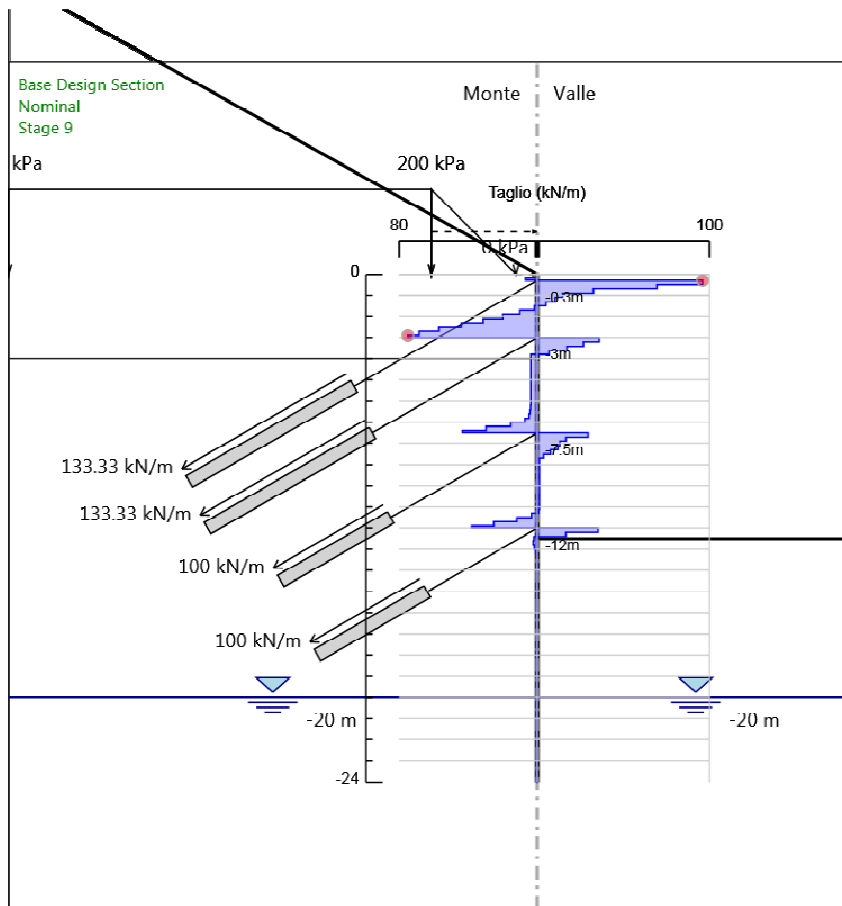
- 107.
- 108. Design Assumption: Nominal
- 109. Stage: Stage 7
- 110. Taglio

Grafico Taglio Nominal - Stage: Stage 8



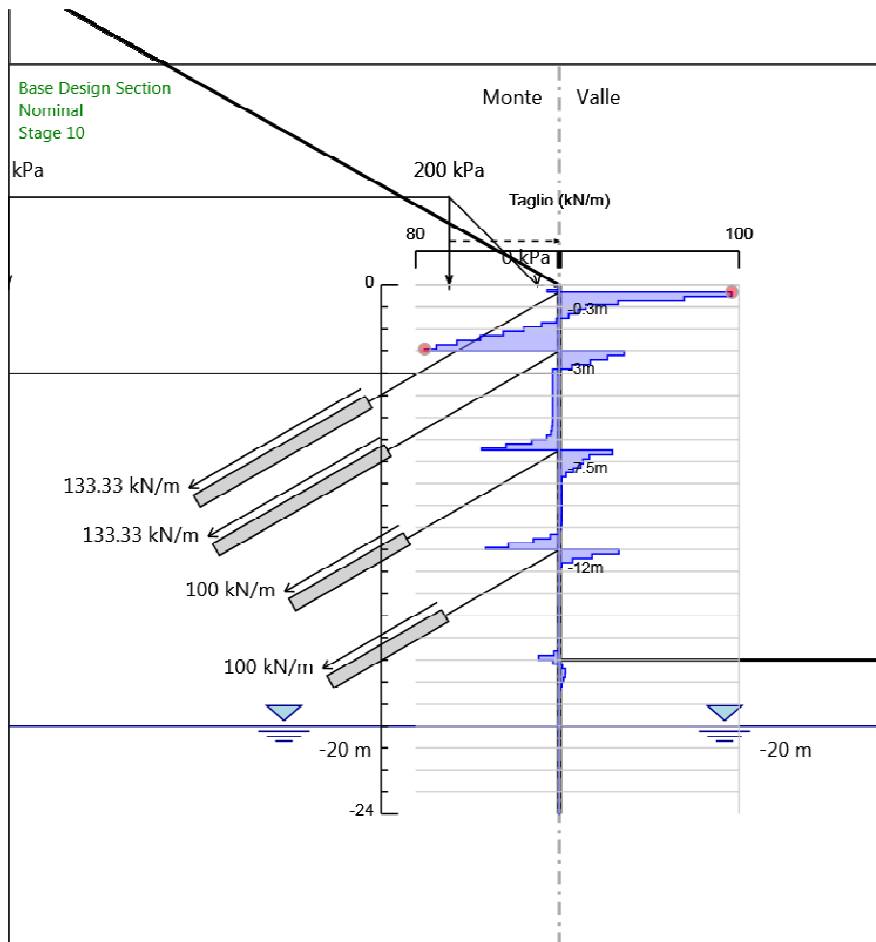
- 111.
- 112. Design Assumption: Nominal
- 113. Stage: Stage 8
- 114. Taglio

Grafico Taglio Nominal - Stage: Stage 9



- 115.
- 116. Design Assumption: Nominal
- 117. Stage: Stage 9
- 118. Taglio

Grafico Taglio Nominal - Stage: Stage 10



- 119.
- 120. Design Assumption: Nominal
- 121. Stage: Stage 10
- 122. Taglio

Inviluppi Risultati Paratia Nominal

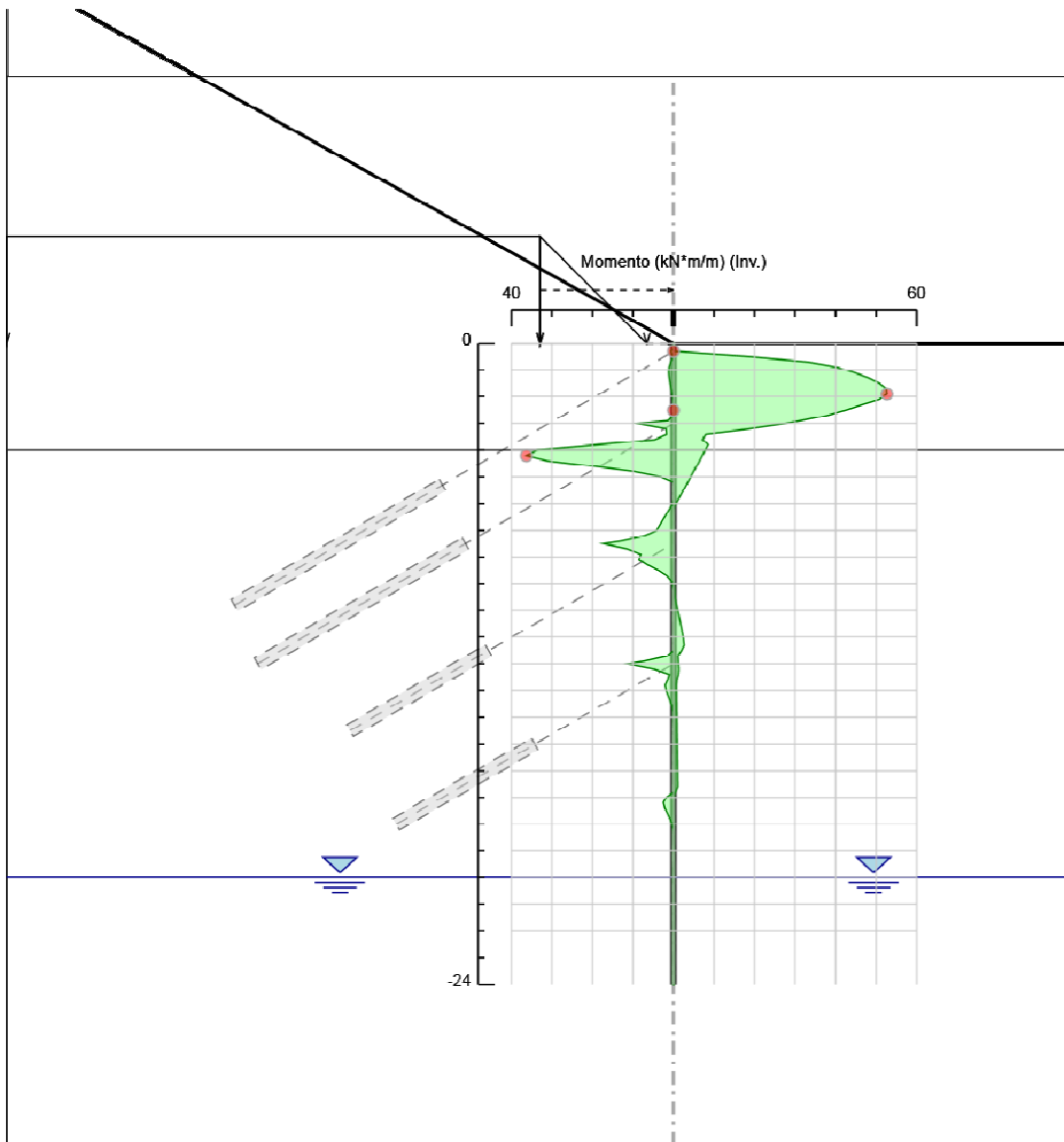
Tabella Inviluppi Momento Nominal WallElement

147	Design Assumption: Nominal 148		Inviluppi: Momento 149		Muro: WallElement		
	150	Z (m)	151	Lato sinistro (kN*m/m) 152	152	Lato destro (kN*m/m)	
	9026	0		9027	0	9028	0
	9029	-0.2		9030	0	9031	0
	9032	-0.3		9033	0.693	9034	0
	9035	-0.5		9036	0.184	9037	18.931
	9038	-0.7		9039	0.683	9040	33.324
	9041	-0.9		9042	1.114	9043	40.597
	9044	-1.1		9045	1.199	9046	44.626
	9047	-1.3		9048	1.072	9049	48.122
	9050	-1.5		9051	0.845	9052	50.862
	9053	-1.7		9054	0.598	9055	52.511
	9056	-1.9		9057	0.376	9058	52.664
	9059	-2.1		9060	0.198	9061	50.849
	9062	-2.3		9063	0.067	9064	46.525
	9065	-2.5		9066	0	9067	42.465
	9068	-2.7		9069	0.071	9070	37.69
	9071	-2.9		9072	1.363	9073	31.354
	9074	-3		9075	8.857	9076	27.56
	9077	-3.2		9078	1.85	9079	18.682
	9080	-3.4		9081	1.736	9082	7.979
	9083	-3.6		9084	4.654	9085	7.164
	9086	-3.8		9087	18.827	9088	8.576
	9089	-4		9090	33.652	9091	7.852
	9092	-4.2		9093	36.302	9094	7.129
	9095	-4.4		9096	30.952	9097	6.406
	9098	-4.6		9099	20.227	9100	5.683
	9101	-4.8		9102	9.826	9103	4.96
	9104	-5		9105	3.173	9106	4.237
	9107	-5.2		9108	0	9109	3.514
	9110	-5.4		9111	0	9112	2.791
	9113	-5.6		9114	0.003	9115	2.068
	9116	-5.8		9117	0.004	9118	1.345
	9119	-6		9120	0.206	9121	0.622
	9122	-6.2		9123	0.998	9124	0.034
	9125	-6.4		9126	1.789	9127	0
	9128	-6.6		9129	2.581	9130	0
	9131	-6.8		9132	3.372	9133	0
	9134	-7		9135	4.164	9136	0
	9137	-7.2		9138	7.1	9139	0
	9140	-7.4		9141	13.024	9142	0.002
	9143	-7.5		9144	17.354	9145	0.003
	9146	-7.7		9147	11.435	9148	0.002
	9149	-7.9		9150	8.089	9151	0.001
	9152	-8.1		9153	8.517	9154	0
	9155	-8.3		9156	6.362	9157	0
	9158	-8.5		9159	3.707	9160	0
	9161	-8.7		9162	1.636	9163	0
	9164	-8.9		9165	0.463	9166	0
	9167	-9.1		9168	0.193	9169	0.198
	9170	-9.3		9171	0	9172	0.337
	9173	-9.5		9174	0	9175	0.368
	9176	-9.7		9177	0	9178	0.645
	9179	-9.9		9180	0	9181	0.923
	9182	-10.1		9183	0	9184	1.2

147	Design Assumption: Nominal	148	Involuppi: Momento	149	Muro: WallElement
150	Z (m)	151	Lato sinistro (kN*m/m)	152	Lato destro (kN*m/m)
9185	-10.3	9186	0.017	9187	1.477
9188	-10.5	9189	0.024	9190	1.754
9191	-10.7	9192	0.023	9193	2.031
9194	-10.9	9195	0.018	9196	2.28
9197	-11.1	9198	0.012	9199	2.473
9200	-11.3	9201	0.008	9202	2.64
9203	-11.5	9204	0.005	9205	1.995
9206	-11.7	9207	1.483	9208	1.111
9209	-11.9	9210	7.173	9211	1.194
9212	-12	9213	11.278	9214	1.235
9215	-12.2	9216	4.651	9217	1.318
9218	-12.4	9219	1.01	9220	1.234
9221	-12.6	9222	1.455	9223	0.85
9224	-12.8	9225	2.072	9226	0.731
9227	-13	9228	1.845	9229	0.749
9230	-13.2	9231	1.313	9232	0.767
9233	-13.4	9234	0.781	9235	0.785
9236	-13.6	9237	0.38	9238	0.803
9239	-13.8	9240	0.144	9241	0.821
9242	-14	9243	0.102	9244	0.839
9245	-14.2	9246	0.067	9247	0.857
9248	-14.4	9249	0.043	9250	0.875
9251	-14.6	9252	0.027	9253	0.893
9254	-14.8	9255	0.019	9256	0.911
9257	-15	9258	0.015	9259	0.929
9260	-15.2	9261	0.014	9262	0.947
9263	-15.4	9264	0.017	9265	0.965
9266	-15.6	9267	0.017	9268	0.983
9269	-15.8	9270	0.015	9271	1.001
9272	-16	9273	0.013	9274	1.019
9275	-16.2	9276	0.011	9277	1.037
9278	-16.4	9279	0.01	9280	1.055
9281	-16.6	9282	0.008	9283	1.073
9284	-16.8	9285	0.007	9286	0.486
9287	-17	9288	1.824	9289	0
9290	-17.2	9291	2.518	9292	0
9293	-17.4	9294	2.183	9295	0
9296	-17.6	9297	1.502	9298	0
9299	-17.8	9300	0.854	9301	0
9302	-18	9303	0.387	9304	0
9305	-18.2	9306	0.113	9307	0
9308	-18.4	9309	0.004	9310	0.014
9311	-18.6	9312	0.003	9313	0.05
9314	-18.8	9315	0.003	9316	0.043
9317	-19	9318	0.003	9319	0.02
9320	-19.2	9321	0.004	9322	0
9323	-19.4	9324	0.02	9325	0
9326	-19.6	9327	0.032	9328	0
9329	-19.8	9330	0.04	9331	0
9332	-20	9333	0.042	9334	0
9335	-20.2	9336	0.032	9337	0
9338	-20.4	9339	0.021	9340	0
9341	-20.6	9342	0.013	9343	0
9344	-20.8	9345	0.007	9346	0
9347	-21	9348	0.004	9349	0
9350	-21.2	9351	0.003	9352	0
9353	-21.4	9354	0.002	9355	0
9356	-21.6	9357	0.003	9358	0
9359	-21.8	9360	0.003	9361	0
9362	-22	9363	0.003	9364	0

147	Design Assumption: Nominal		148	Involuppi: Momento		149	Muro: WallElement
150	Z (m)	151	Lato sinistro (kN*m/m)		152	Lato destro (kN*m/m)	
9365	-22.2		9366	0.003		9367	0
9368	-22.4		9369	0.003		9370	0
9371	-22.6		9372	0.003		9373	0
9374	-22.8		9375	0.003		9376	0
9377	-23		9378	0.003		9379	0
9380	-23.2		9381	0.002		9382	0
9383	-23.4		9384	0.002		9385	0
9386	-23.6		9387	0.001		9388	0
9389	-23.8		9390	0		9391	0
9392	-24		9393	0		9394	0

Grafico Involuppi Momento Nominal



- 123.
- 124. Momento

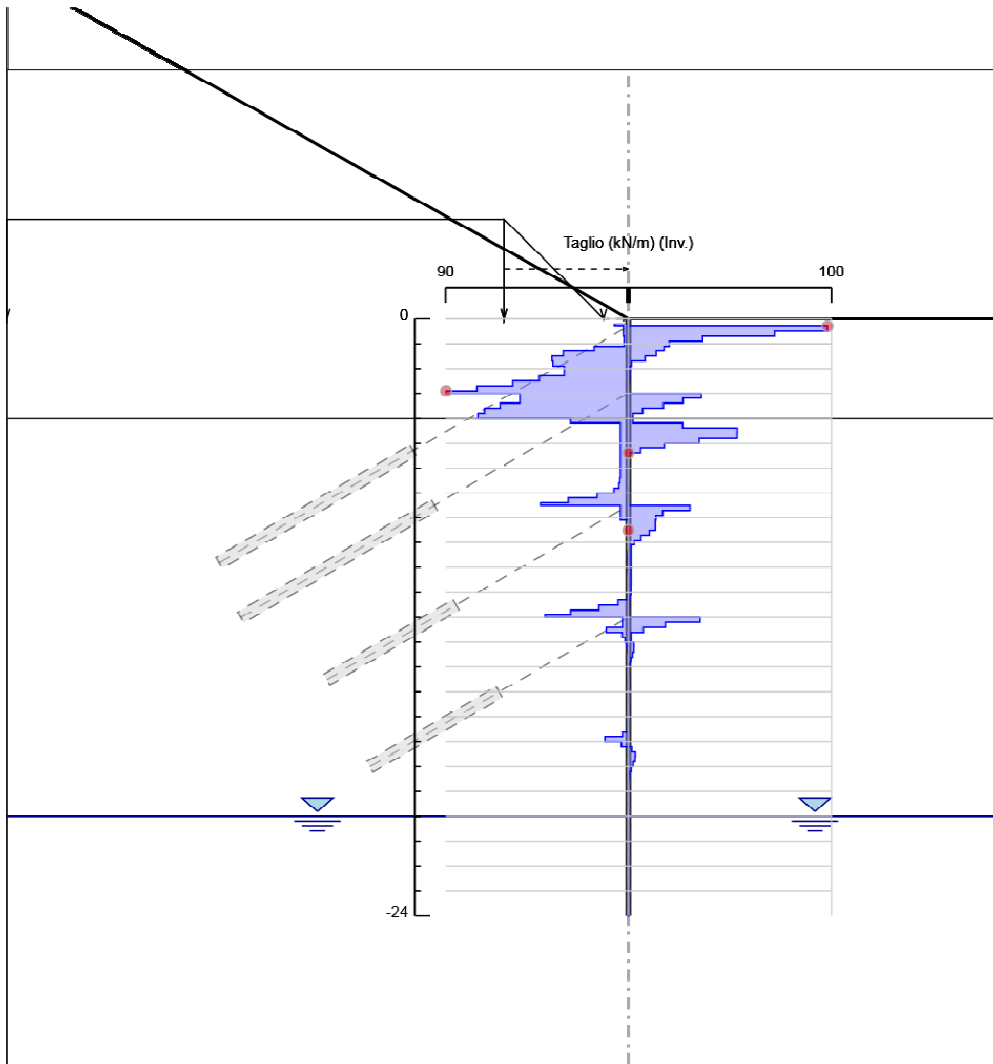
Tabella Involuppi Taglio Nominal WallElement

153	Design Assumption: Nominal		154	Involuppi: Taglio		155	Muro: WallElement
	156	Z (m)	157	Lato sinistro (kN/m)	158	Lato destro (kN/m)	
	9395	0		9396	0		9397 0
	9398	-0.2		9399	6.931		9400 0
	9401	-0.3		9402	6.931		9403 98.045
	9404	-0.5		9405	2.493		9406 98.045
	9407	-0.7		9408	2.493		9409 72.045
	9410	-0.9		9411	2.158		9412 36.593
	9413	-1.1		9414	16.873		9415 20.144
	9416	-1.3		9417	32.125		9418 17.48
	9419	-1.5		9420	37.658		9421 13.703
	9422	-1.7		9423	37.658		9424 8.245
	9425	-1.9		9426	37.165		9427 1.528
	9428	-2.1		9429	31.656		9430 0.889
	9431	-2.3		9432	43.938		9433 0.655
	9434	-2.5		9435	56.994		9436 0.449
	9437	-2.7		9438	74.609		9439 0.288
	9440	-2.9		9441	89.824		9442 0.168
	9443	-3		9444	89.824		9445 36.001
	9446	-3.2		9447	53.516		9448 36.001
	9449	-3.4		9450	63.166		9451 26.875
	9452	-3.6		9453	70.862		9454 17.225
	9455	-3.8		9456	74.129		9457 7.06
	9458	-4		9459	74.129		9460 2.203
	9461	-4.2		9462	28.512		9463 26.747
	9464	-4.4		9465	3.958		9466 53.627
	9467	-4.6		9468	3.958		9469 53.627
	9470	-4.8		9471	3.958		9472 53.569
	9473	-5		9474	3.958		9475 34.942
	9476	-5.2		9477	3.958		9478 17.636
	9479	-5.4		9480	3.958		9481 6.04
	9482	-5.6		9483	3.958		9484 0
	9485	-5.8		9486	3.958		9487 0.007
	9488	-6		9489	3.958		9490 0.007
	9491	-6.2		9492	3.958		9493 0.006
	9494	-6.4		9495	4.116		9496 0.024
	9497	-6.6		9498	4.645		9499 0.148
	9500	-6.8		9501	7.075		9502 0.148
	9503	-7		9504	15.38		9505 0.127
	9506	-7.2		9507	29.628		9508 0.07
	9509	-7.4		9510	43.341		9511 0.027
	9512	-7.5		9513	43.341		9514 30.32
	9515	-7.7		9516	3.958		9517 30.32
	9518	-7.9		9519	3.958		9520 16.932
	9521	-8.1		9522	3.958		9523 13.539
	9524	-8.3		9525	0.002		9526 13.276
	9527	-8.5		9528	0.001		9529 13.276
	9530	-8.7		9531	0		9532 10.352
	9533	-8.9		9534	0		9535 6.231
	9536	-9.1		9537	0		9538 2.865
	9539	-9.3		9540	0.299		9541 1.385
	9542	-9.5		9543	0.538		9544 1.385
	9545	-9.7		9546	0.538		9547 1.385
	9548	-9.9		9549	0.489		9550 1.385
	9551	-10.1		9552	0.323		9553 1.385
	9554	-10.3		9555	0.164		9556 1.385
	9557	-10.5		9558	0.054		9559 1.385
	9560	-10.7		9561	0		9562 1.385

153	Design Assumption: Nominal	154	Inviluppi: Taglio	155	Muro: WallElement	
	156	Z (m)	157	Lato sinistro (kN/m)	158	Lato destro (kN/m)
9563	-10.9		9564	0	9565	1.333
9566	-11.1		9567	0.189	9568	1.333
9569	-11.3		9570	5.058	9571	0.834
9572	-11.5		9573	14.465	9574	0.412
9575	-11.7		9576	28.448	9577	0.412
9578	-11.9		9579	41.047	9580	0.412
9581	-12		9582	41.047	9583	35.355
9584	-12.2		9585	2.954	9586	35.355
9587	-12.4		9588	10.909	9589	18.202
9590	-12.6		9591	10.909	9592	7.348
9593	-12.8		9594	3.086	9595	1.36
9596	-13		9597	1.664	9598	2.662
9599	-13.2		9600	0.897	9601	2.662
9602	-13.4		9603	0.313	9604	2.656
9605	-13.6		9606	0	9607	2.006
9608	-13.8		9609	0	9610	1.246
9611	-14		9612	0	9613	0.63
9614	-14.2		9615	0	9616	0.225
9617	-14.4		9618	0.078	9619	0.123
9620	-14.6		9621	0.09	9622	0.09
9623	-14.8		9624	0.09	9625	0.09
9626	-15		9627	0.069	9628	0.09
9629	-15.2		9630	0.04	9631	0.09
9632	-15.4		9633	0.016	9634	0.09
9635	-15.6		9636	0	9637	0.09
9638	-15.8		9639	0	9640	0.09
9641	-16		9642	0	9643	0.09
9644	-16.2		9645	0	9646	0.09
9647	-16.4		9648	0	9649	0.09
9650	-16.6		9651	2.933	9652	0.09
9653	-16.8		9654	11.552	9655	0.005
9656	-17		9657	11.552	9658	0.004
9659	-17.2		9660	3.471	9661	1.676
9662	-17.4		9663	0	9664	3.405
9665	-17.6		9666	0	9667	3.405
9668	-17.8		9669	0	9670	3.237
9671	-18		9672	0	9673	2.335
9674	-18.2		9675	0	9676	1.371
9677	-18.4		9678	0	9679	0.635
9680	-18.6		9681	0.039	9682	0.183
9683	-18.8		9684	0.113	9685	0.001
9686	-19		9687	0.113	9688	0
9689	-19.2		9690	0.113	9691	0
9692	-19.4		9693	0.088	9694	0
9695	-19.6		9696	0.061	9697	0
9698	-19.8		9699	0.037	9700	0
9701	-20		9702	0.008	9703	0.046
9704	-20.2		9705	0	9706	0.055
9707	-20.4		9708	0	9709	0.055
9710	-20.6		9711	0	9712	0.044
9713	-20.8		9714	0	9715	0.029
9716	-21		9717	0	9718	0.015
9719	-21.2		9720	0	9721	0.006
9722	-21.4		9723	0.001	9724	0.001
9725	-21.6		9726	0.001	9727	0
9728	-21.8		9729	0.001	9730	0
9731	-22		9732	0.001	9733	0
9734	-22.2		9735	0	9736	0
9737	-22.4		9738	0	9739	0
9740	-22.6		9741	0	9742	0.001

153	Design Assumption: Nominal		154	Involuppi: Taglio		155	Muro: WallElement
	156	Z (m)	157	Lato sinistro (kN/m)		158	Lato destro (kN/m)
	9743	-22.8		9744	0		9745 0.001
	9746	-23		9747	0		9748 0.002
	9749	-23.2		9750	0		9751 0.002
	9752	-23.4		9753	0		9754 0.003
	9755	-23.6		9756	0		9757 0.004
	9758	-23.8		9759	0		9760 0.004
	9761	-24		9762	0		9763 0.002

Grafico Involuppi Taglio Nominal



- 125.
- 126. Taglio

Risultati Elementi strutturali

159	Design Assumption: Nominal 160		Sollecitazione 1 fila	
	161	Stage	162	Forza (kN/m)
	9764	Stage 3	9765	133.3
	9766	Stage 4	9767	131.0588
	9768	Stage 5	9769	131.1298
	9770	Stage 6	9771	130.9861
	9772	Stage 7	9773	130.9834
	9774	Stage 8	9775	130.9832
	9776	Stage 9	9777	130.9832
	9778	Stage 10	9779	130.9832

163	Design Assumption: Nominal 164		Sollecitazione 2 fila	
	165	Stage	166	Forza (kN/m)
	9780	Stage 5	9781	133.3
	9782	Stage 6	9783	135.4984
	9784	Stage 7	9785	135.5372
	9786	Stage 8	9787	135.5394
	9788	Stage 9	9789	135.5394
	9790	Stage 10	9791	135.5394

167	Design Assumption: Nominal 168		Sollecitazione 3 fila	
	169	Stage	170	Forza (kN/m)
	9792	Stage 7	9793	100
	9794	Stage 8	9795	100.0188
	9796	Stage 9	9797	100.018
	9798	Stage 10	9799	100.018

171	Design Assumption: Nominal 172		Sollecitazione 4 fila	
	173	Stage	174	Forza (kN/m)
	9800	Stage 9	9801	100
	9802	Stage 10	9803	100.0154

Riepilogo spinte

175	Design	176	Tipo	177	Muro:	178	LEFT	179	Lato	180	LEFT	181	182		
Assumption: Nominal		Risultato: Riepilogo spinte													
183	Stage	184	Vera	185	Pressione	186	Vera	187	Min	188	Max	189	Percentuale	190	Vera
		effettiva (kN/m)		neutra (kN/m)		Totale (kN/m)		ammisibile (kN/m)		ammisibile (kN/m)		di resistenza massima		/ Attiva	
9804	Stage 1	9805	4426.2	9806	80	9807	4506.2	9808	105.4	9809	204776.3	9810	2.16%	9811	41.99
9812	Stage 2	9813	4377.8	9814	80	9815	4457.8	9816	105.4	9817	204776.3	9818	2.14%	9819	41.54
9820	Stage 3	9821	4497.4	9822	80	9823	4577.4	9824	105.4	9825	204776.3	9826	2.2%	9827	42.67
9828	Stage 4	9829	4012.4	9830	80	9831	4092.4	9832	105.4	9833	204776.3	9834	1.96%	9835	38.07
9836	Stage 5	9837	4118.1	9838	80	9839	4198.1	9840	105.4	9841	204776.3	9842	2.01%	9843	39.07
9844	Stage 6	9845	3176.1	9846	80	9847	3256.1	9848	105.4	9849	204776.3	9850	1.55%	9851	30.13
9852	Stage 7	9853	3261.1	9854	80	9855	3341.1	9856	105.4	9857	204776.3	9858	1.59%	9859	30.94
9860	Stage 8	9861	2321.2	9862	80	9863	2401.2	9864	105.4	9865	204776.3	9866	1.13%	9867	22.02
9868	Stage 9	9869	2405.4	9870	80	9871	2485.4	9872	105.4	9873	204776.3	9874	1.17%	9875	22.82
9876	Stage	9877	1560.1	9878	80	9879	1640.1	9880	105.4	9881	204776.3	9882	0.76%	9883	14.8

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191	Design	192	Tipo	193	Muro:	194	LEFT	195	Lato	196	RIGHT	197	198		
Assumption: Nominal		Risultato: Riepilogo spinte													
199	Stage	200	Vera	201	Pressione	202	Vera	203	Min	204	Max	205	Percentuale	206	Vera /
		effettiva (kN/m)		neutra (kN/m)		Totale (kN/m)		ammisibile (kN/m)		ammisibile (kN/m)		di resistenza massima		Attiva	
9884	Stage 1	9885	4426.2	9886	80	9887	4506.2	9888	37.5	9889	105384.8	9890	4.2%	9891	118.03
9892	Stage 2	9893	4377.8	9894	80	9895	4457.8	9896	30.2	9897	103080.3	9898	4.25%	9899	144.96
9900	Stage 3	9901	4382	9902	80	9903	4462	9904	37.5	9905	105384.8	9906	4.16%	9907	116.85
9908	Stage 4	9909	3898.8	9910	80	9911	3978.8	9912	0.4	9913	85886.1	9914	4.54%	9915	9747
9916	Stage 5	9917	3889.1	9918	80	9919	3969.1	9920	0.4	9921	85886.1	9922	4.53%	9923	9722.75
9924	Stage 6	9925	2945.3	9926	80	9927	3025.3	9928	0	9929	56238	9930	5.24%	9931	+Infinito
9932	Stage 7	9933	2943.7	9934	80	9935	3023.7	9936	0	9937	56238	9938	5.23%	9939	+Infinito
9940	Stage 8	9941	2003.7	9942	80	9943	2083.7	9944	0	9945	32007.5	9946	6.26%	9947	+Infinito
9948	Stage 9	9949	2001.4	9950	80	9951	2081.4	9952	0	9953	32007.5	9954	6.25%	9955	+Infinito
9956	Stage	9957	1156.1	9958	80	9959	1236.1	9960	0	9961	14245.3	9962	8.12%	9963	+Infinito

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