

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 ovest  
 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 Ovest 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/mm<sup>2</sup>

#### ACCIAIO

ACCIAIO PER ARMATURA CLS

- Barre  $\emptyset \leq 26$ 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,  $f_{p(1)k}$ : 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 Ovest sono costituite da paratie multincornate di micropali di diametro  $\varnothing 240\text{mm}$  e interasse  $0.5\text{m}$ , armati con tubi in acciaio di diametro  $\varnothing 168.3\text{mm}$  e spessore  $10\text{mm}$ , 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  $17\text{m}$  e un massimo di 4 ordini di tiranti attivi a 3/4 trefoli. Nelle figure seguenti si riportano la planimetria e la sviluppata.

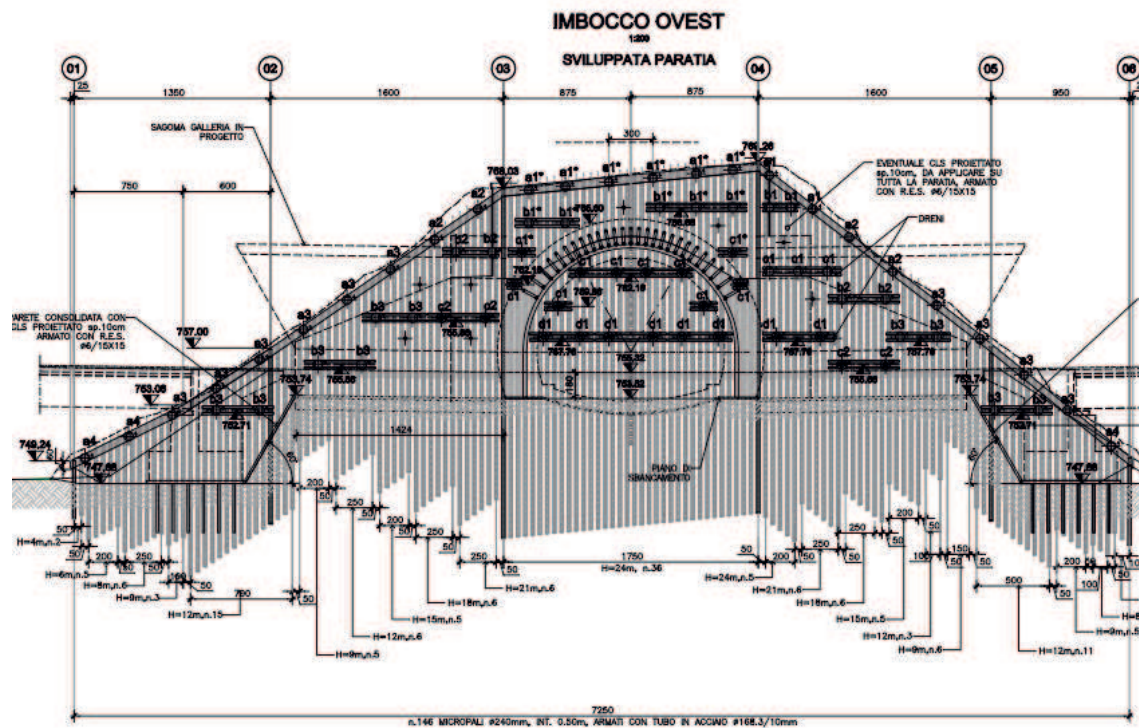


Figura 1: sviluppata della paratia all'imbocco Ovest (Ovest)

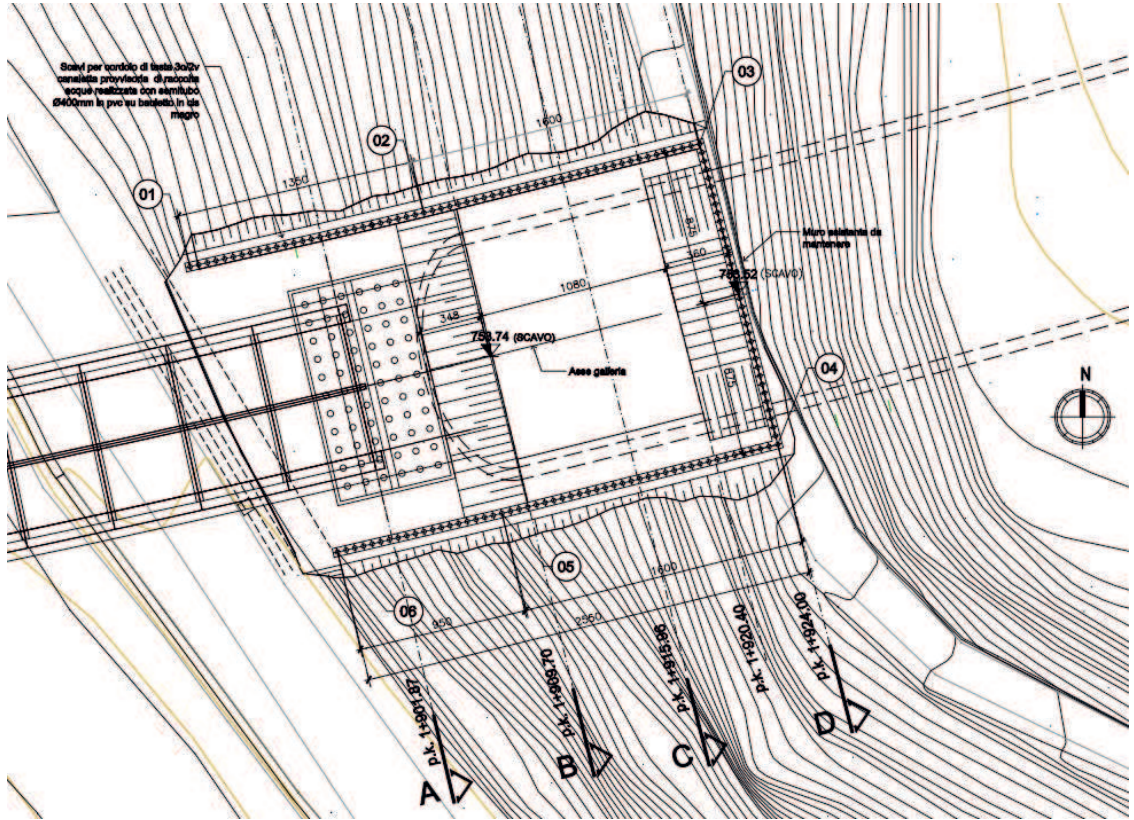


Figura 2: planimetria della paratia

### 3 INQUADRAMENTO GEOLOGICO E GEOTECNICO

Nella zona dell'imbocco Ovest l'ammasso roccioso superficialmente è costituito da unità geomeccaniche a comportamento prevalentemente incoerente (UGm<sub>i</sub>), mentre più in profondità queste assumono comportamento litoide (UGm<sub>3</sub>).

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

Tabella 1: parametri geotecnici utilizzati nelle analisi

Litotipo	$\gamma$ (kN/m <sup>3</sup> )	c' (kPa)	$\phi'$ (°)	E (MPa)	$\nu$ (-)
UGm <sub>3</sub>	22÷26	45÷190	34÷ <b>54</b>	500÷ <b>1200</b>	0.25÷0.29
UGm <sub>i</sub>	14÷22	8÷15	25÷ <b>29</b>	50÷100	0.3÷0.4

dove:

- $\gamma$  peso di volume
- $\phi'$  angolo d'attrito efficace
- c' coesione efficace
- E Modulo di Young
- $\nu$  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,

$\Psi$ : indica un fattore  $\leq 1.0$  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:

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

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

##### 4.1 AZIONI E RESISTENZE DI PROGETTO

I coefficienti parziali  $\gamma_F$  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 $\gamma_F$ (o $\gamma_E$ )	(A1)	(A2)
Permanenti	Favorevole	$\gamma_G$	1.0	1.0
	Sfavorevole		1.3	1.0
Variabili	Favorevole	$\gamma_Q$	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 $\gamma_M$	(M1)	(M2)
Tangente dell'angolo di resistenza al taglio	$\tan\phi_k'$	$\gamma_\phi$	1.0	1.25
Coesione efficace	$c_k'$	$\gamma_c'$	1.0	1.25
Resistenza non drenata	$c_{uk}$	$\gamma_{cu}$	1.0	1.4
Peso dell'unità di volume	$\gamma$	$\gamma_\gamma$	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)	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	
	$\gamma_{sat}$ [kN/m <sup>3</sup> ]	$c_k'$ [kPa]	$\tan\phi_k'$ [-]	$c_k'/\gamma_c'$ [kPa]	$\tan\phi_k'/\gamma_\phi'$ [-]
UGm_i	22	10	$\tan(28^\circ)=0.53$	8	0.43 ( $\phi=23^\circ$ )
UGm3	22	150	$\tan(40^\circ)=0.84$	120	0.67 ( $\phi=34^\circ$ )

## 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  $\phi$  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 geome-



triche 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.

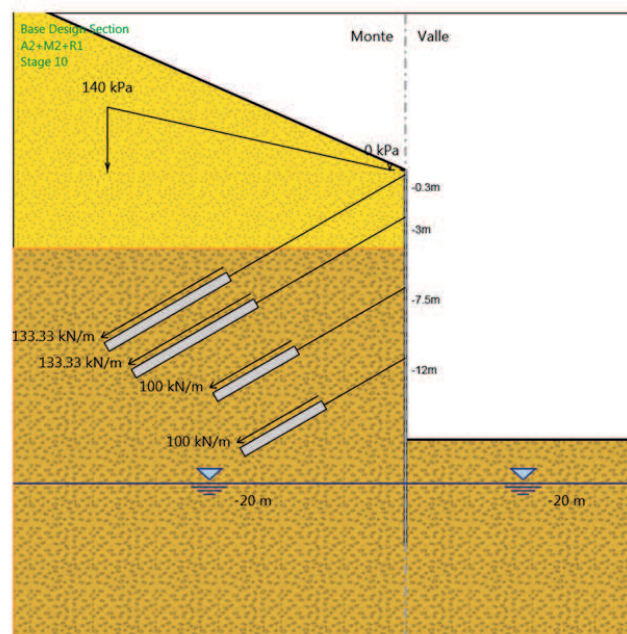


Figura 3: sezione di calcolo rappresentativa con il profilo, la stratigrafia del terreno e i carichi inseriti nel codice di calcolo.

#### 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  $\alpha$  (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  $\gamma_{M0}$  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

$\gamma_M$ : 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 alle 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  $\xi_a$  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	$\geq 5$
$\xi_{a3}$	1.80	1.75	1.70	1.65	1.60

Numeri di profili di indagine	1	2	3	4	≥5
$\xi_{a4}$	1.80	1.70	1.65	1.60	1.55

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

$$R_{a,d} = R_{ak} / \gamma_R \quad (\gamma_R = 1.1 \text{ per ancoraggi temporanei, } \gamma_R = 1.2 \text{ per ancoraggi permanenti})$$

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, $\alpha$ [-]	Aderenza limite bulbo-terreno, $q_a$ [kPa]	Fattore $\xi_{a3}$ [-]	Coefficiente parziale $\gamma_R$ [-]
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)

$\gamma_c$ : 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  $\gamma_R$  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.

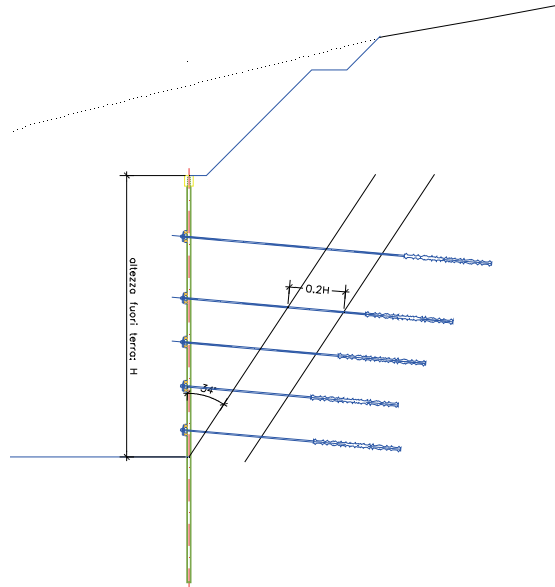


Figura 4: determinazione della lunghezza libera

#### 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:

$\alpha$	inclinazione del tirante rispetto all'orizzontale
$\rho$	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 $V_{max} = \kappa \cdot (T_{max} \cdot \cos \alpha) \cdot i$
$\kappa$	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:

$\gamma_{M0}$	è il coefficiente di sicurezza per la resistenza delle membrature, pari a $\gamma_{M0} = 1.05$
$\sigma_{id}$	è la tensione ideale massima che si sviluppa nei profilati per l'azione delle Ovestdette

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_ImbOvest	17	7	140	26	4	Prowisoria

Tabella 10: Caratteristiche statiche delle sezioni analizzate

ID Sezione	Materiale armatura	Diametro Micropali [mm]	Armatura diametro esterno/spessore [mm]	Interasse [m]	Inerzia equivalente [m4]	Altezza sezione equivalente [m]	Modulo elastico sezione equivalente [MPa]
1_ImbOvest	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_ImbOvest	16	13

##### 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. Ol-

tre 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]	$\sigma_{ideale}$ [MPa]	Verifica ( $f_{yk}/\gamma_{M0}=338\text{MPa}$ )
1_ImbOvest	62	3	31	1.5	167	✓

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_ImbOvest/Fila 1	3.0	4	30	400	173	520	707	✓
1_ImbOvest/Fila 2	3.0	4	30	400	183	550	707	✓
1_ImbOvest/Fila 3	3.0	3	30	300	130	390	531	✓
1_ImbOvest/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]	$\sigma_{ideale}$ [MPa]	Verifica $\sigma_{ideale} < f_{yk} / \gamma_{M0}$
HEA220	1_ImbOvest/Fila 2	3	550	143	83	286	213	✓

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 riporta 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 <sub>anc</sub> (SLU) [kN]	Armatura	M <sub>x</sub> [kNm]	M <sub>y</sub> [kNm]	T [kN]	F <sub>SM</sub> [-]	V <sub>Rsd</sub> [kN]	V <sub>Rcd</sub> [kN]	F <sub>ST</sub> [-]
1_ImbOvest/Fila 1	520	5+5Ø20 Staffa Ø12/25	135	78	270	2.6	454	749	1.68
Incidenza: 130kg/m <sup>3</sup>									

dove:

M<sub>x</sub> e M<sub>y</sub> :momenti flettenti di calcolo agenti intorno agli assi della trave

T :sforzo di taglio agente in direzione orizzontale

M<sub>Rd</sub> :momento resistente della sezione sottoposta a flessione deviata

F<sub>SM</sub> :fattore di sicurezza al momento flettente, dato dal rapporto M<sub>u</sub>/M

F<sub>ST</sub> :fattore di sicurezza allo sforzo di taglio, dato dal rapporto min(V<sub>Rsd</sub>;V<sub>Rcd</sub>)/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<sub>Ed</sub>) sia minore di V<sub>Rd</sub>.

dove:

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

V<sub>Rsd</sub> è la resistenza di calcolo a "taglio trazione" dell'armatura trasversale

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

V<sub>Rcd</sub> è la resistenza di calcolo a "taglio compressione" del calcestruzzo

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

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<sub>SM</sub> = M<sub>u</sub>/M e F<sub>ST</sub> = min(V<sub>Rsd</sub>;V<sub>Rcd</sub>)/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_ImbOvest	14	2.45



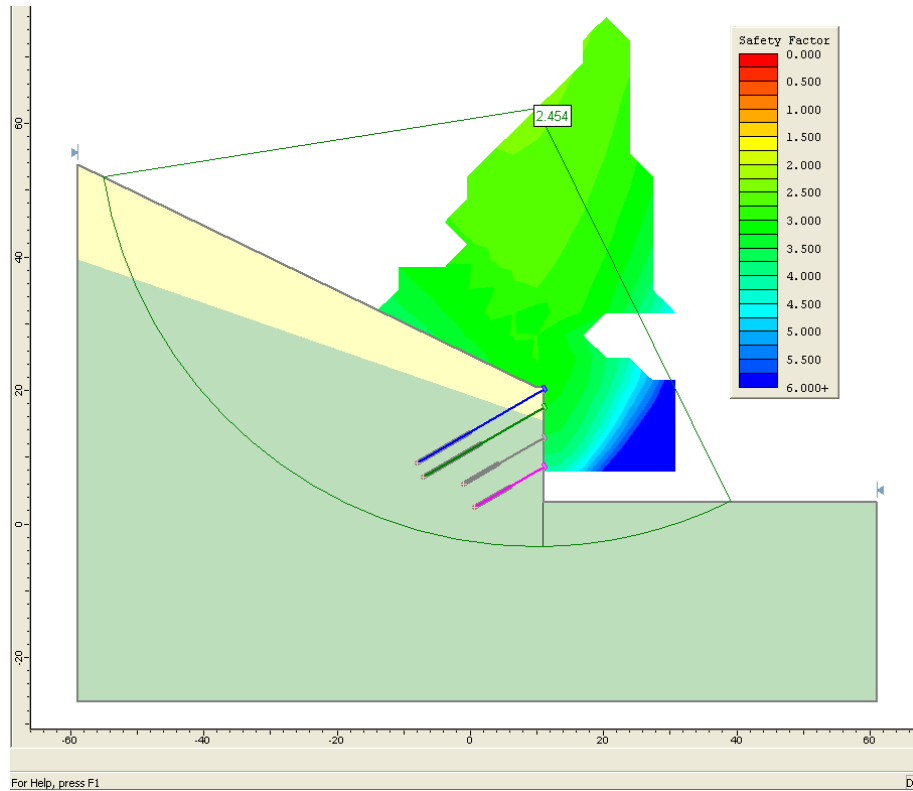


Figura 5: SLU/GEO – Verifica di stabilità globale, analisi 1\_ImbOvest

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_ImbOvest/Fila 1	3	400	13	9	463	1627	✓
1_ImbOvest/Fila 2	3	470	11	10	514	1807	✓
1_ImbOvest/Fila 3	3	325	8	6	377	939	✓
1_ImbOvest/Fila 4	3	300	6	6	377	939	✓



## ***Report di Calcolo***

Nome Progetto: DEMONTE IMBOCCO OVEST

Autore:

Jobname: J:\PROJECTS\2017\2517 - ANAS GN DEMONTE\Analysis\Paratie Plus\OVEST\DEMONTE IMBOCCO OVEST  
1720 .pplus

Data: 23/11/2017 10:44:31

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 : 11 m

OCR : 1

Tipo : HORIZONTAL

Quota : -5 m

OCR : 1

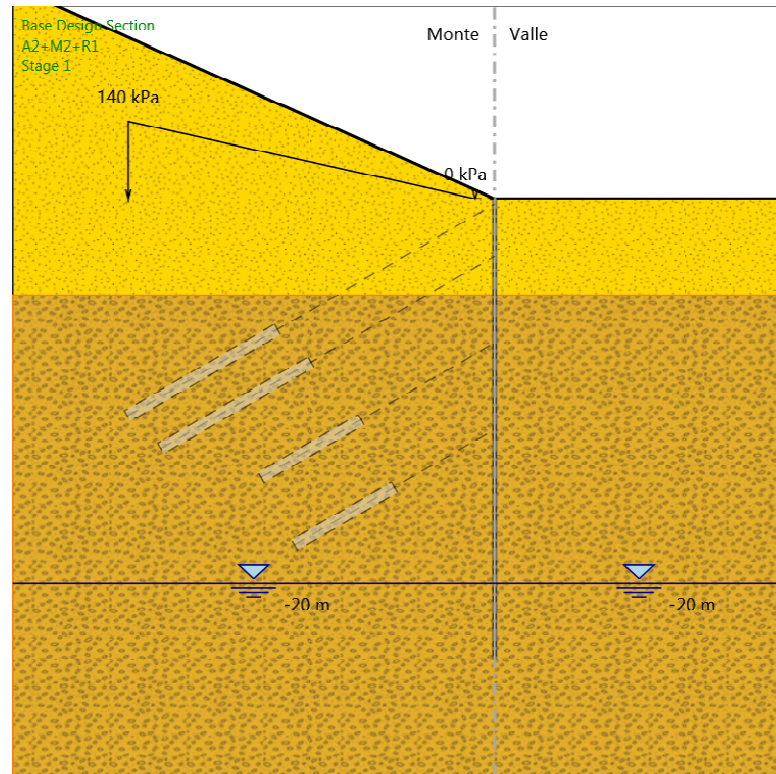
## ***Descrizione Pareti***

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

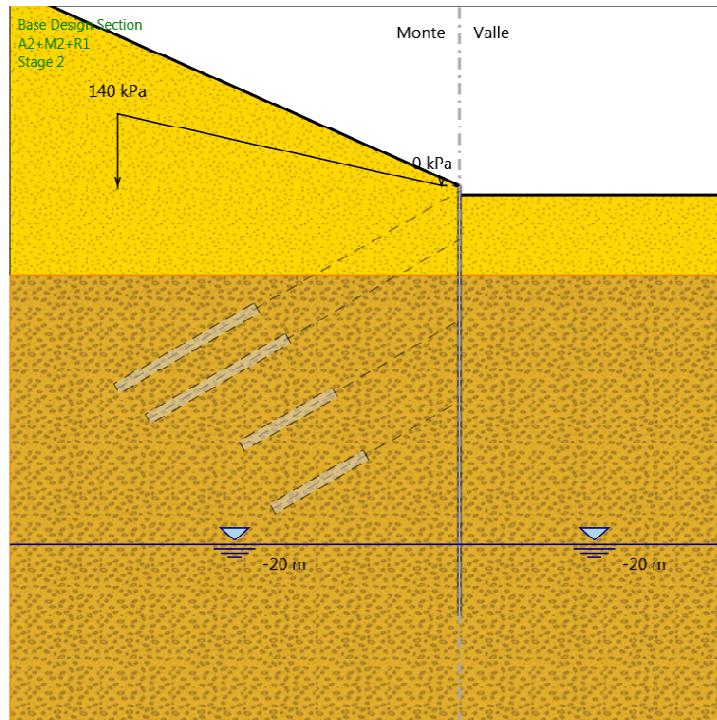
Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -24 m

Sezione : Default Section



## Stage 2

## Stage 2

Elementi strutturali

Paratia : WallElement

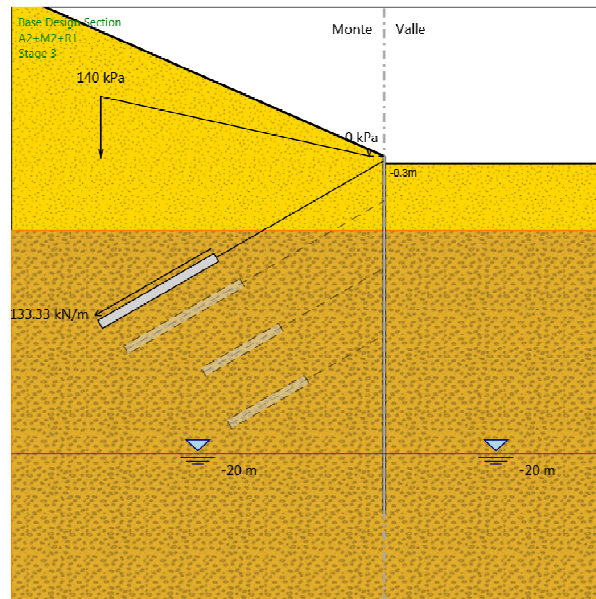
X : 0 m

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

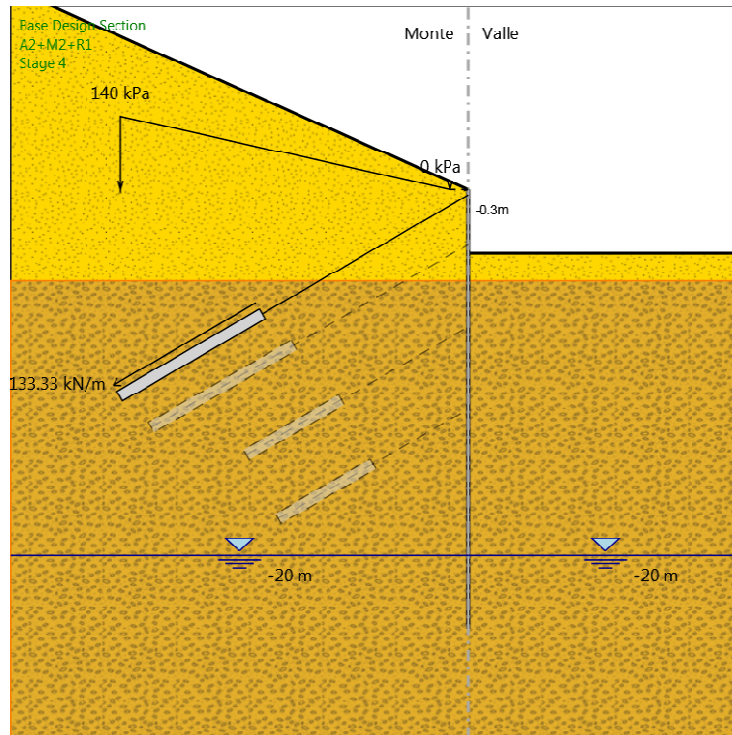
Lunghezza libera : 13 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m<sup>2</sup>



## 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 : 13 m

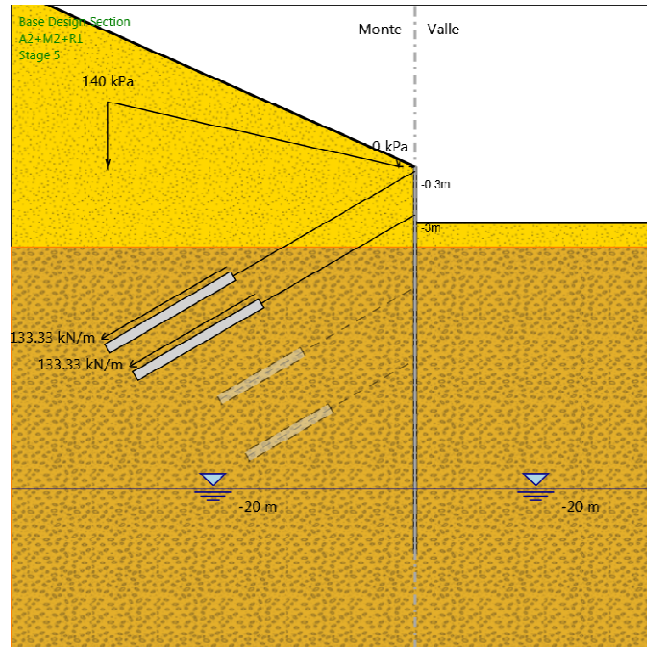
Prearico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m<sup>2</sup>





## 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 : 13 m

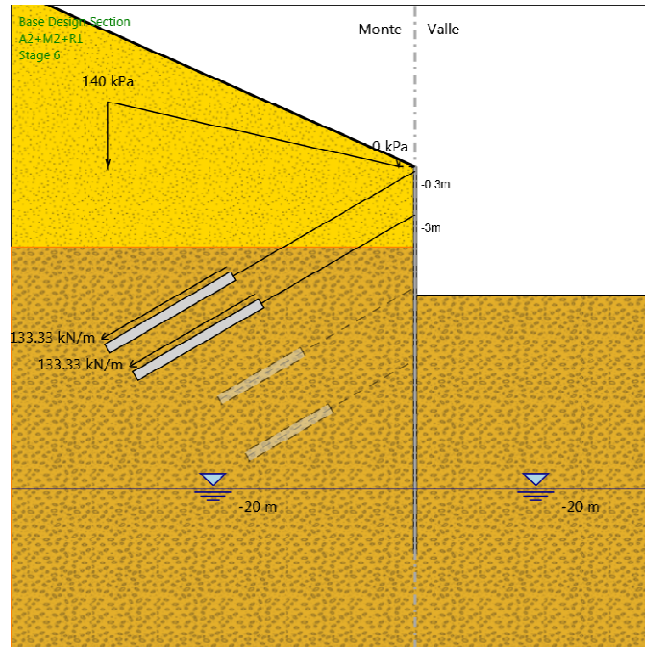
Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m<sup>2</sup>

Tirante : 2 fila  
X : 0 m  
Z : -3 m  
Lunghezza bulbo : 9 m  
Diametro bulbo : 0.18 m  
Lunghezza libera : 11 m  
Precarico : 400 kN  
Angolo : 30 °  
Sezione : 4 strands  
Area : 0.000556 m<sup>2</sup>



## 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 : 13 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m<sup>2</sup>

Tirante : 2 fila

X : 0 m

Z : -3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

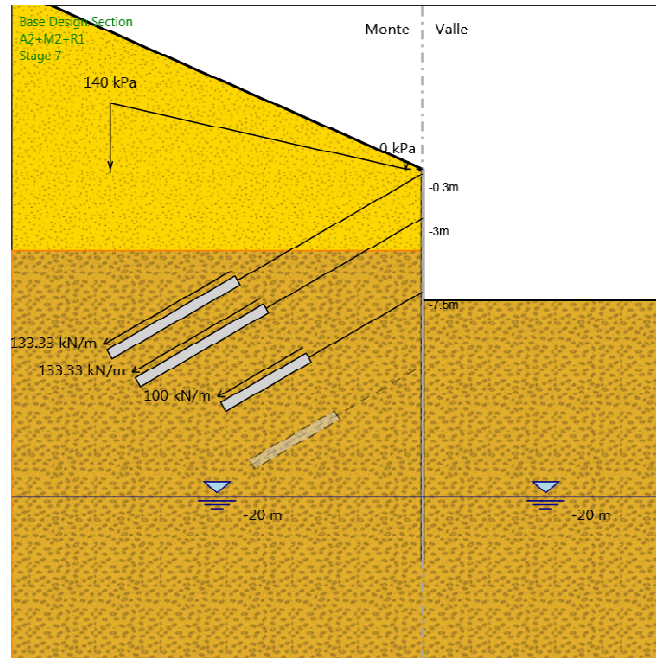
Lunghezza libera : 11 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m<sup>2</sup>



## 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 : 13 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m<sup>2</sup>

Tirante : 2 fila

X : 0 m

Z : -3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

Lunghezza libera : 11 m

Prezarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m<sup>2</sup>

Tirante : 3 fila

X : 0 m

Z : -7.5 m

Lunghezza bulbo : 6 m

Diametro bulbo : 0.18 m

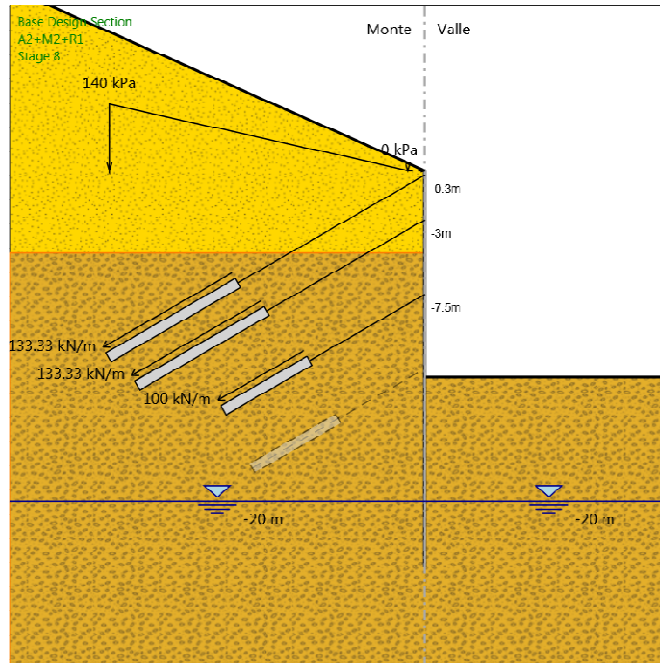
Lunghezza libera : 8 m

Prezarico : 300 kN

Angolo : 30 °

Sezione : 3 strands

Area : 0.000417 m<sup>2</sup>



## 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 : 13 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m<sup>2</sup>

Tirante : 2 fila

X : 0 m

Z : -3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

Lunghezza libera : 11 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m<sup>2</sup>

Tirante : 3 fila

X : 0 m

Z : -7.5 m

Lunghezza bulbo : 6 m

Diametro bulbo : 0.18 m

Lunghezza libera : 8 m

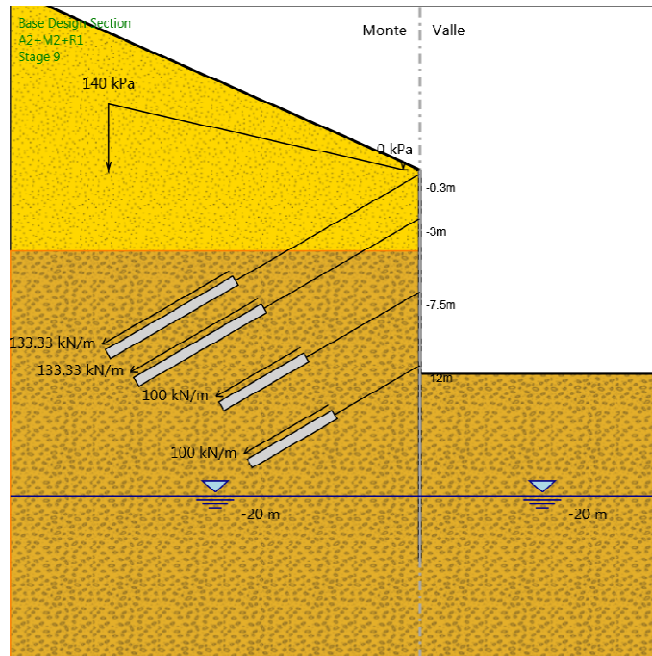
Precarico : 300 kN

Angolo : 30 °

Sezione : 3 strands

Area : 0.000417 m<sup>2</sup>





## 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 : 13 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m<sup>2</sup>

Tirante : 2 fila

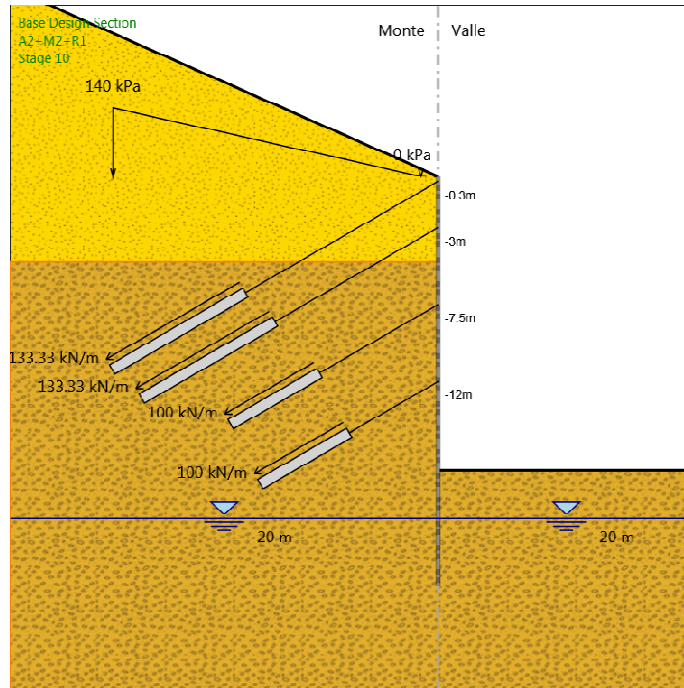
X : 0 m  
Z : -3 m  
Lunghezza bulbo : 9 m  
Diametro bulbo : 0.18 m  
Lunghezza libera : 11 m  
Precarico : 400 kN  
Angolo : 30 °  
Sezione : 4 strands  
Area : 0.000556 m<sup>2</sup>

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 m<sup>2</sup>

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 m<sup>2</sup>



## 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 : 13 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m<sup>2</sup>

Tirante : 2 fila

X : 0 m

Z : -3 m

Lunghezza bulbo : 9 m

Diametro bulbo : 0.18 m

Lunghezza libera : 11 m

Precarico : 400 kN

Angolo : 30 °

Sezione : 4 strands

Area : 0.000556 m<sup>2</sup>

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 m<sup>2</sup>

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 m<sup>2</sup>

## 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	0.11
	373	Stage 2	374	-0.2	375	0.09
	376	Stage 2	377	-0.3	378	0.08
	379	Stage 2	380	-0.5	381	0.07
	382	Stage 2	383	-0.7	384	0.05
	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	0.03
	394	Stage 2	395	-1.5	396	0.02
	397	Stage 2	398	-1.7	399	0.02
	400	Stage 2	401	-1.9	402	0.02
	403	Stage 2	404	-2.1	405	0.02
	406	Stage 2	407	-2.3	408	0.02
	409	Stage 2	410	-2.5	411	0.02
	412	Stage 2	413	-2.7	414	0.02
	415	Stage 2	416	-2.9	417	0.02
	418	Stage 2	419	-3	420	0.02
	421	Stage 2	422	-3.2	423	0.02
	424	Stage 2	425	-3.4	426	0.02
	427	Stage 2	428	-3.6	429	0.02
	430	Stage 2	431	-3.8	432	0.02
	433	Stage 2	434	-4	435	0.02
	436	Stage 2	437	-4.2	438	0.02
	439	Stage 2	440	-4.4	441	0.01
	442	Stage 2	443	-4.6	444	0.01
	445	Stage 2	446	-4.8	447	0.01
	448	Stage 2	449	-5	450	0.01
	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

<b>7</b>	<b>Design Assumption: Nominal 8</b>		<b>Tipo Risultato: Spostamento</b>		<b>9</b>	<b>Muro: LEFT</b>	
<b>10</b>	<b>Stage</b>	<b>11</b>	<b>Z (m)</b>	<b>12</b>	<b>Spostamento (mm)</b>		
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	-7.26
	742	Stage 3	743	-0.2	744	-6.18
	745	Stage 3	746	-0.3	747	-5.63
	748	Stage 3	749	-0.5	750	-4.54
	751	Stage 3	752	-0.7	753	-3.51
	754	Stage 3	755	-0.9	756	-2.58
	757	Stage 3	758	-1.1	759	-1.78
	760	Stage 3	761	-1.3	762	-1.13
	763	Stage 3	764	-1.5	765	-0.62
	766	Stage 3	767	-1.7	768	-0.25
	769	Stage 3	770	-1.9	771	0
	772	Stage 3	773	-2.1	774	0.15
	775	Stage 3	776	-2.3	777	0.23
	778	Stage 3	779	-2.5	780	0.26
	781	Stage 3	782	-2.7	783	0.25
	784	Stage 3	785	-2.9	786	0.23
	787	Stage 3	788	-3	789	0.21
	790	Stage 3	791	-3.2	792	0.17
	793	Stage 3	794	-3.4	795	0.13
	796	Stage 3	797	-3.6	798	0.1
	799	Stage 3	800	-3.8	801	0.07
	802	Stage 3	803	-4	804	0.05
	805	Stage 3	806	-4.2	807	0.03
	808	Stage 3	809	-4.4	810	0.02
	811	Stage 3	812	-4.6	813	0.01
	814	Stage 3	815	-4.8	816	0.01
	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	0
910	Stage 3	911	-11.1	912	0	0
913	Stage 3	914	-11.3	915	0	0
916	Stage 3	917	-11.5	918	0	0
919	Stage 3	920	-11.7	921	0	0
922	Stage 3	923	-11.9	924	0	0
925	Stage 3	926	-12	927	0	0
928	Stage 3	929	-12.2	930	0	0
931	Stage 3	932	-12.4	933	0	0
934	Stage 3	935	-12.6	936	0	0
937	Stage 3	938	-12.8	939	0	0
940	Stage 3	941	-13	942	0	0
943	Stage 3	944	-13.2	945	0	0
946	Stage 3	947	-13.4	948	0	0
949	Stage 3	950	-13.6	951	0	0
952	Stage 3	953	-13.8	954	0	0
955	Stage 3	956	-14	957	0	0
958	Stage 3	959	-14.2	960	0	0
961	Stage 3	962	-14.4	963	0	0
964	Stage 3	965	-14.6	966	0	0
967	Stage 3	968	-14.8	969	0	0
970	Stage 3	971	-15	972	0	0
973	Stage 3	974	-15.2	975	0	0
976	Stage 3	977	-15.4	978	0	0
979	Stage 3	980	-15.6	981	0	0
982	Stage 3	983	-15.8	984	0	0
985	Stage 3	986	-16	987	0	0
988	Stage 3	989	-16.2	990	0	0
991	Stage 3	992	-16.4	993	0	0
994	Stage 3	995	-16.6	996	0	0
997	Stage 3	998	-16.8	999	0	0
1000	Stage 3	1001	-17	1002	0	0
1003	Stage 3	1004	-17.2	1005	0	0
1006	Stage 3	1007	-17.4	1008	0	0
1009	Stage 3	1010	-17.6	1011	0	0
1012	Stage 3	1013	-17.8	1014	0	0
1015	Stage 3	1016	-18	1017	0	0
1018	Stage 3	1019	-18.2	1020	0	0
1021	Stage 3	1022	-18.4	1023	0	0
1024	Stage 3	1025	-18.6	1026	0	0
1027	Stage 3	1028	-18.8	1029	0	0
1030	Stage 3	1031	-19	1032	0	0
1033	Stage 3	1034	-19.2	1035	0	0
1036	Stage 3	1037	-19.4	1038	0	0
1039	Stage 3	1040	-19.6	1041	0	0
1042	Stage 3	1043	-19.8	1044	0	0
1045	Stage 3	1046	-20	1047	0	0
1048	Stage 3	1049	-20.2	1050	0	0
1051	Stage 3	1052	-20.4	1053	0	0
1054	Stage 3	1055	-20.6	1056	0	0
1057	Stage 3	1058	-20.8	1059	0	0
1060	Stage 3	1061	-21	1062	0	0
1063	Stage 3	1064	-21.2	1065	0	0
1066	Stage 3	1067	-21.4	1068	0	0
1069	Stage 3	1070	-21.6	1071	0	0
1072	Stage 3	1073	-21.8	1074	0	0
1075	Stage 3	1076	-22	1077	0	0
1078	Stage 3	1079	-22.2	1080	0	0
1081	Stage 3	1082	-22.4	1083	0	0
1084	Stage 3	1085	-22.6	1086	0	0

<b>13</b>	<b>Design Assumption: Nominal 14</b>		<b>Tipo Risultato: Spostamento</b>		<b>15</b>	<b>Muro: LEFT</b>	
	<b>16</b>	<b>Stage</b>	<b>17</b>	<b>Z (m)</b>	<b>18</b>	<b>Spostamento (mm)</b>	
	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	-9.59
	1111	Stage 4	1112	-0.2	1113	-7.93
	1114	Stage 4	1115	-0.3	1116	-7.1
	1117	Stage 4	1118	-0.5	1119	-5.44
	1120	Stage 4	1121	-0.7	1122	-3.83
	1123	Stage 4	1124	-0.9	1125	-2.32
	1126	Stage 4	1127	-1.1	1128	-0.94
	1129	Stage 4	1130	-1.3	1131	0.3
	1132	Stage 4	1133	-1.5	1134	1.39
	1135	Stage 4	1136	-1.7	1137	2.32
	1138	Stage 4	1139	-1.9	1140	3.09
	1141	Stage 4	1142	-2.1	1143	3.7
	1144	Stage 4	1145	-2.3	1146	4.13
	1147	Stage 4	1148	-2.5	1149	4.4
	1150	Stage 4	1151	-2.7	1152	4.51
	1153	Stage 4	1154	-2.9	1155	4.47
	1156	Stage 4	1157	-3	1158	4.39
	1159	Stage 4	1160	-3.2	1161	4.15
	1162	Stage 4	1163	-3.4	1164	3.8
	1165	Stage 4	1166	-3.6	1167	3.37
	1168	Stage 4	1169	-3.8	1170	2.88
	1171	Stage 4	1172	-4	1173	2.38
	1174	Stage 4	1175	-4.2	1176	1.89
	1177	Stage 4	1178	-4.4	1179	1.43
	1180	Stage 4	1181	-4.6	1182	1.02
	1183	Stage 4	1184	-4.8	1185	0.66
	1186	Stage 4	1187	-5	1188	0.38
	1189	Stage 4	1190	-5.2	1191	0.18
	1192	Stage 4	1193	-5.4	1194	0.05
	1195	Stage 4	1196	-5.6	1197	-0.01
	1198	Stage 4	1199	-5.8	1200	-0.02
	1201	Stage 4	1202	-6	1203	-0.02
	1204	Stage 4	1205	-6.2	1206	-0.01
	1207	Stage 4	1208	-6.4	1209	0
	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	-9.35
1480	Stage 5	1481	-0.2	1482	-7.75
1483	Stage 5	1484	-0.3	1485	-6.94
1486	Stage 5	1487	-0.5	1488	-5.34
1489	Stage 5	1490	-0.7	1491	-3.8
1492	Stage 5	1493	-0.9	1494	-2.36
1495	Stage 5	1496	-1.1	1497	-1.06
1498	Stage 5	1499	-1.3	1500	0.07
1501	Stage 5	1502	-1.5	1503	1.04
1504	Stage 5	1505	-1.7	1506	1.82
1507	Stage 5	1508	-1.9	1509	2.43
1510	Stage 5	1511	-2.1	1512	2.85
1513	Stage 5	1514	-2.3	1515	3.11
1516	Stage 5	1517	-2.5	1518	3.21
1519	Stage 5	1520	-2.7	1521	3.18
1522	Stage 5	1523	-2.9	1524	3.08
1525	Stage 5	1526	-3	1527	3
1528	Stage 5	1529	-3.2	1530	2.85
1531	Stage 5	1532	-3.4	1533	2.66
1534	Stage 5	1535	-3.6	1536	2.42
1537	Stage 5	1538	-3.8	1539	2.15
1540	Stage 5	1541	-4	1542	1.84
1543	Stage 5	1544	-4.2	1545	1.52
1546	Stage 5	1547	-4.4	1548	1.19
1549	Stage 5	1550	-4.6	1551	0.88
1552	Stage 5	1553	-4.8	1554	0.6
1555	Stage 5	1556	-5	1557	0.36
1558	Stage 5	1559	-5.2	1560	0.18
1561	Stage 5	1562	-5.4	1563	0.06
1564	Stage 5	1565	-5.6	1566	0
1567	Stage 5	1568	-5.8	1569	-0.02
1570	Stage 5	1571	-6	1572	-0.02
1573	Stage 5	1574	-6.2	1575	-0.01
1576	Stage 5	1577	-6.4	1578	0
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 32		Tipo Risultato: Spostamento		33	Muro: LEFT
34	Stage	35	Z (m)	36	Spostamento (mm)	
1846	Stage 6	1847	0	1848	-11.37	
1849	Stage 6	1850	-0.2	1851	-9.54	
1852	Stage 6	1853	-0.3	1854	-8.62	
1855	Stage 6	1856	-0.5	1857	-6.79	
1858	Stage 6	1859	-0.7	1860	-5.01	
1861	Stage 6	1862	-0.9	1863	-3.33	
1864	Stage 6	1865	-1.1	1866	-1.76	
1867	Stage 6	1868	-1.3	1869	-0.33	
1870	Stage 6	1871	-1.5	1872	0.98	
1873	Stage 6	1874	-1.7	1875	2.16	
1876	Stage 6	1877	-1.9	1878	3.23	
1879	Stage 6	1880	-2.1	1881	4.2	
1882	Stage 6	1883	-2.3	1884	5.1	
1885	Stage 6	1886	-2.5	1887	5.94	
1888	Stage 6	1889	-2.7	1890	6.75	
1891	Stage 6	1892	-2.9	1893	7.56	
1894	Stage 6	1895	-3	1896	7.98	
1897	Stage 6	1898	-3.2	1899	8.85	
1900	Stage 6	1901	-3.4	1902	9.72	
1903	Stage 6	1904	-3.6	1905	10.56	
1906	Stage 6	1907	-3.8	1908	11.31	
1909	Stage 6	1910	-4	1911	11.95	
1912	Stage 6	1913	-4.2	1914	12.45	
1915	Stage 6	1916	-4.4	1917	12.79	
1918	Stage 6	1919	-4.6	1920	12.95	
1921	Stage 6	1922	-4.8	1923	12.94	
1924	Stage 6	1925	-5	1926	12.74	
1927	Stage 6	1928	-5.2	1929	12.38	
1930	Stage 6	1931	-5.4	1932	11.87	
1933	Stage 6	1934	-5.6	1935	11.23	
1936	Stage 6	1937	-5.8	1938	10.49	
1939	Stage 6	1940	-6	1941	9.66	
1942	Stage 6	1943	-6.2	1944	8.76	
1945	Stage 6	1946	-6.4	1947	7.82	
1948	Stage 6	1949	-6.6	1950	6.85	
1951	Stage 6	1952	-6.8	1953	5.88	
1954	Stage 6	1955	-7	1956	4.92	
1957	Stage 6	1958	-7.2	1959	3.99	
1960	Stage 6	1961	-7.4	1962	3.12	
1963	Stage 6	1964	-7.5	1965	2.71	
1966	Stage 6	1967	-7.7	1968	1.96	
1969	Stage 6	1970	-7.9	1971	1.31	
1972	Stage 6	1973	-8.1	1974	0.79	
1975	Stage 6	1976	-8.3	1977	0.41	
1978	Stage 6	1979	-8.5	1980	0.16	
1981	Stage 6	1982	-8.7	1983	0.03	
1984	Stage 6	1985	-8.9	1986	-0.01	
1987	Stage 6	1988	-9.1	1989	-0.02	
1990	Stage 6	1991	-9.3	1992	0	
1993	Stage 6	1994	-9.5	1995	0.02	
1996	Stage 6	1997	-9.7	1998	0.03	
1999	Stage 6	2000	-9.9	2001	0.04	
2002	Stage 6	2003	-10.1	2004	0.05	
2005	Stage 6	2006	-10.3	2007	0.05	
2008	Stage 6	2009	-10.5	2010	0.05	
2011	Stage 6	2012	-10.7	2013	0.05	

31	Design Assumption: Nominal		32		33	
	34	Stage	35	Z (m)	36	Muro: LEFT Spostamento (mm)
	2014	Stage 6	2015	-10.9	2016	0.05
	2017	Stage 6	2018	-11.1	2019	0.05
	2020	Stage 6	2021	-11.3	2022	0.05
	2023	Stage 6	2024	-11.5	2025	0.04
	2026	Stage 6	2027	-11.7	2028	0.04
	2029	Stage 6	2030	-11.9	2031	0.04
	2032	Stage 6	2033	-12	2034	0.04
	2035	Stage 6	2036	-12.2	2037	0.04
	2038	Stage 6	2039	-12.4	2040	0.04
	2041	Stage 6	2042	-12.6	2043	0.04
	2044	Stage 6	2045	-12.8	2046	0.04
	2047	Stage 6	2048	-13	2049	0.04
	2050	Stage 6	2051	-13.2	2052	0.04
	2053	Stage 6	2054	-13.4	2055	0.04
	2056	Stage 6	2057	-13.6	2058	0.04
	2059	Stage 6	2060	-13.8	2061	0.04
	2062	Stage 6	2063	-14	2064	0.04
	2065	Stage 6	2066	-14.2	2067	0.04
	2068	Stage 6	2069	-14.4	2070	0.04
	2071	Stage 6	2072	-14.6	2073	0.04
	2074	Stage 6	2075	-14.8	2076	0.04
	2077	Stage 6	2078	-15	2079	0.04
	2080	Stage 6	2081	-15.2	2082	0.04
	2083	Stage 6	2084	-15.4	2085	0.04
	2086	Stage 6	2087	-15.6	2088	0.04
	2089	Stage 6	2090	-15.8	2091	0.04
	2092	Stage 6	2093	-16	2094	0.04
	2095	Stage 6	2096	-16.2	2097	0.04
	2098	Stage 6	2099	-16.4	2100	0.04
	2101	Stage 6	2102	-16.6	2103	0.04
	2104	Stage 6	2105	-16.8	2106	0.04
	2107	Stage 6	2108	-17	2109	0.04
	2110	Stage 6	2111	-17.2	2112	0.04
	2113	Stage 6	2114	-17.4	2115	0.04
	2116	Stage 6	2117	-17.6	2118	0.04
	2119	Stage 6	2120	-17.8	2121	0.04
	2122	Stage 6	2123	-18	2124	0.04
	2125	Stage 6	2126	-18.2	2127	0.04
	2128	Stage 6	2129	-18.4	2130	0.04
	2131	Stage 6	2132	-18.6	2133	0.04
	2134	Stage 6	2135	-18.8	2136	0.04
	2137	Stage 6	2138	-19	2139	0.04
	2140	Stage 6	2141	-19.2	2142	0.04
	2143	Stage 6	2144	-19.4	2145	0.04
	2146	Stage 6	2147	-19.6	2148	0.04
	2149	Stage 6	2150	-19.8	2151	0.04
	2152	Stage 6	2153	-20	2154	0.04
	2155	Stage 6	2156	-20.2	2157	0.04
	2158	Stage 6	2159	-20.4	2160	0.04
	2161	Stage 6	2162	-20.6	2163	0.04
	2164	Stage 6	2165	-20.8	2166	0.04
	2167	Stage 6	2168	-21	2169	0.04
	2170	Stage 6	2171	-21.2	2172	0.04
	2173	Stage 6	2174	-21.4	2175	0.04
	2176	Stage 6	2177	-21.6	2178	0.04
	2179	Stage 6	2180	-21.8	2181	0.04
	2182	Stage 6	2183	-22	2184	0.04
	2185	Stage 6	2186	-22.2	2187	0.04
	2188	Stage 6	2189	-22.4	2190	0.04
	2191	Stage 6	2192	-22.6	2193	0.04

<b>31</b>	<b>Design Assumption: Nominal</b>		<b>Tipo Risultato: Spostamento</b>		<b>33</b>	<b>Muro: LEFT</b>	
<b>34</b>	<b>Stage</b>		<b>35</b>	<b>Z (m)</b>	<b>36</b>	<b>Spostamento (mm)</b>	
2194	Stage 6		2195	-22.8	2196	0.04	
2197	Stage 6		2198	-23	2199	0.04	
2200	Stage 6		2201	-23.2	2202	0.04	
2203	Stage 6		2204	-23.4	2205	0.04	
2206	Stage 6		2207	-23.6	2208	0.04	
2209	Stage 6		2210	-23.8	2211	0.04	
2212	Stage 6		2213	-24	2214	0.04	

**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	-11.41	
2218	Stage 7	2219	-0.2	2220	-9.58	
2221	Stage 7	2222	-0.3	2223	-8.66	
2224	Stage 7	2225	-0.5	2226	-6.82	
2227	Stage 7	2228	-0.7	2229	-5.03	
2230	Stage 7	2231	-0.9	2232	-3.34	
2233	Stage 7	2234	-1.1	2235	-1.77	
2236	Stage 7	2237	-1.3	2238	-0.33	
2239	Stage 7	2240	-1.5	2241	0.98	
2242	Stage 7	2243	-1.7	2244	2.17	
2245	Stage 7	2246	-1.9	2247	3.25	
2248	Stage 7	2249	-2.1	2250	4.23	
2251	Stage 7	2252	-2.3	2253	5.14	
2254	Stage 7	2255	-2.5	2256	5.98	
2257	Stage 7	2258	-2.7	2259	6.8	
2260	Stage 7	2261	-2.9	2262	7.63	
2263	Stage 7	2264	-3	2265	8.05	
2266	Stage 7	2267	-3.2	2268	8.93	
2269	Stage 7	2270	-3.4	2271	9.81	
2272	Stage 7	2273	-3.6	2274	10.66	
2275	Stage 7	2276	-3.8	2277	11.42	
2278	Stage 7	2279	-4	2280	12.07	
2281	Stage 7	2282	-4.2	2283	12.57	
2284	Stage 7	2285	-4.4	2286	12.91	
2287	Stage 7	2288	-4.6	2289	13.08	
2290	Stage 7	2291	-4.8	2292	13.06	
2293	Stage 7	2294	-5	2295	12.86	
2296	Stage 7	2297	-5.2	2298	12.5	
2299	Stage 7	2300	-5.4	2301	11.98	
2302	Stage 7	2303	-5.6	2304	11.33	
2305	Stage 7	2306	-5.8	2307	10.58	
2308	Stage 7	2309	-6	2310	9.73	
2311	Stage 7	2312	-6.2	2313	8.82	
2314	Stage 7	2315	-6.4	2316	7.85	
2317	Stage 7	2318	-6.6	2319	6.86	
2320	Stage 7	2321	-6.8	2322	5.85	
2323	Stage 7	2324	-7	2325	4.86	
2326	Stage 7	2327	-7.2	2328	3.9	
2329	Stage 7	2330	-7.4	2331	3	
2332	Stage 7	2333	-7.5	2334	2.58	
2335	Stage 7	2336	-7.7	2337	1.85	
2338	Stage 7	2339	-7.9	2340	1.23	
2341	Stage 7	2342	-8.1	2343	0.74	
2344	Stage 7	2345	-8.3	2346	0.39	
2347	Stage 7	2348	-8.5	2349	0.16	
2350	Stage 7	2351	-8.7	2352	0.04	
2353	Stage 7	2354	-8.9	2355	-0.01	
2356	Stage 7	2357	-9.1	2358	-0.01	
2359	Stage 7	2360	-9.3	2361	0	
2362	Stage 7	2363	-9.5	2364	0.02	
2365	Stage 7	2366	-9.7	2367	0.03	
2368	Stage 7	2369	-9.9	2370	0.04	
2371	Stage 7	2372	-10.1	2373	0.05	
2374	Stage 7	2375	-10.3	2376	0.05	
2377	Stage 7	2378	-10.5	2379	0.05	
2380	Stage 7	2381	-10.7	2382	0.05	

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	0.05	
2386	Stage 7	2387	-11.1	2388	0.05	
2389	Stage 7	2390	-11.3	2391	0.05	
2392	Stage 7	2393	-11.5	2394	0.04	
2395	Stage 7	2396	-11.7	2397	0.04	
2398	Stage 7	2399	-11.9	2400	0.04	
2401	Stage 7	2402	-12	2403	0.04	
2404	Stage 7	2405	-12.2	2406	0.04	
2407	Stage 7	2408	-12.4	2409	0.04	
2410	Stage 7	2411	-12.6	2412	0.04	
2413	Stage 7	2414	-12.8	2415	0.04	
2416	Stage 7	2417	-13	2418	0.04	
2419	Stage 7	2420	-13.2	2421	0.04	
2422	Stage 7	2423	-13.4	2424	0.04	
2425	Stage 7	2426	-13.6	2427	0.04	
2428	Stage 7	2429	-13.8	2430	0.04	
2431	Stage 7	2432	-14	2433	0.04	
2434	Stage 7	2435	-14.2	2436	0.04	
2437	Stage 7	2438	-14.4	2439	0.04	
2440	Stage 7	2441	-14.6	2442	0.04	
2443	Stage 7	2444	-14.8	2445	0.04	
2446	Stage 7	2447	-15	2448	0.04	
2449	Stage 7	2450	-15.2	2451	0.04	
2452	Stage 7	2453	-15.4	2454	0.04	
2455	Stage 7	2456	-15.6	2457	0.04	
2458	Stage 7	2459	-15.8	2460	0.04	
2461	Stage 7	2462	-16	2463	0.04	
2464	Stage 7	2465	-16.2	2466	0.04	
2467	Stage 7	2468	-16.4	2469	0.04	
2470	Stage 7	2471	-16.6	2472	0.04	
2473	Stage 7	2474	-16.8	2475	0.04	
2476	Stage 7	2477	-17	2478	0.04	
2479	Stage 7	2480	-17.2	2481	0.04	
2482	Stage 7	2483	-17.4	2484	0.04	
2485	Stage 7	2486	-17.6	2487	0.04	
2488	Stage 7	2489	-17.8	2490	0.04	
2491	Stage 7	2492	-18	2493	0.04	
2494	Stage 7	2495	-18.2	2496	0.04	
2497	Stage 7	2498	-18.4	2499	0.04	
2500	Stage 7	2501	-18.6	2502	0.04	
2503	Stage 7	2504	-18.8	2505	0.04	
2506	Stage 7	2507	-19	2508	0.04	
2509	Stage 7	2510	-19.2	2511	0.04	
2512	Stage 7	2513	-19.4	2514	0.04	
2515	Stage 7	2516	-19.6	2517	0.04	
2518	Stage 7	2519	-19.8	2520	0.04	
2521	Stage 7	2522	-20	2523	0.04	
2524	Stage 7	2525	-20.2	2526	0.04	
2527	Stage 7	2528	-20.4	2529	0.04	
2530	Stage 7	2531	-20.6	2532	0.04	
2533	Stage 7	2534	-20.8	2535	0.04	
2536	Stage 7	2537	-21	2538	0.04	
2539	Stage 7	2540	-21.2	2541	0.04	
2542	Stage 7	2543	-21.4	2544	0.04	
2545	Stage 7	2546	-21.6	2547	0.04	
2548	Stage 7	2549	-21.8	2550	0.04	
2551	Stage 7	2552	-22	2553	0.04	
2554	Stage 7	2555	-22.2	2556	0.04	
2557	Stage 7	2558	-22.4	2559	0.04	
2560	Stage 7	2561	-22.6	2562	0.04	



<b>37</b>	<b>Design Assumption: Nominal</b>		<b>Tipo Risultato: Spostamento</b>		<b>39</b>	<b>Muro: LEFT</b>	
<b>40</b>	<b>Stage</b>	<b>38</b>	<b>41</b>	<b>Z (m)</b>	<b>42</b>	<b>Spostamento (mm)</b>	
2563	Stage 7		2564	-22.8		2565	0.04
2566	Stage 7		2567	-23		2568	0.04
2569	Stage 7		2570	-23.2		2571	0.04
2572	Stage 7		2573	-23.4		2574	0.04
2575	Stage 7		2576	-23.6		2577	0.04
2578	Stage 7		2579	-23.8		2580	0.04
2581	Stage 7		2582	-24		2583	0.04

**Tabella Spostamento Nominal - LEFT Stage: Stage 8**

43	Design Assumption: Nominal	44	Tipo Risultato: Spostamento	45	Muro: LEFT
46	Stage	47	Z (m)	48	Spostamento (mm)
2584	Stage 8	2585	0	2586	-11.42
2587	Stage 8	2588	-0.2	2589	-9.58
2590	Stage 8	2591	-0.3	2592	-8.66
2593	Stage 8	2594	-0.5	2595	-6.82
2596	Stage 8	2597	-0.7	2598	-5.03
2599	Stage 8	2600	-0.9	2601	-3.34
2602	Stage 8	2603	-1.1	2604	-1.77
2605	Stage 8	2606	-1.3	2607	-0.33
2608	Stage 8	2609	-1.5	2610	0.99
2611	Stage 8	2612	-1.7	2613	2.18
2614	Stage 8	2615	-1.9	2616	3.26
2617	Stage 8	2618	-2.1	2619	4.24
2620	Stage 8	2621	-2.3	2622	5.14
2623	Stage 8	2624	-2.5	2625	5.99
2626	Stage 8	2627	-2.7	2628	6.81
2629	Stage 8	2630	-2.9	2631	7.63
2632	Stage 8	2633	-3	2634	8.06
2635	Stage 8	2636	-3.2	2637	8.94
2638	Stage 8	2639	-3.4	2640	9.82
2641	Stage 8	2642	-3.6	2643	10.67
2644	Stage 8	2645	-3.8	2646	11.43
2647	Stage 8	2648	-4	2649	12.08
2650	Stage 8	2651	-4.2	2652	12.58
2653	Stage 8	2654	-4.4	2655	12.92
2656	Stage 8	2657	-4.6	2658	13.09
2659	Stage 8	2660	-4.8	2661	13.07
2662	Stage 8	2663	-5	2664	12.87
2665	Stage 8	2666	-5.2	2667	12.5
2668	Stage 8	2669	-5.4	2670	11.98
2671	Stage 8	2672	-5.6	2673	11.33
2674	Stage 8	2675	-5.8	2676	10.58
2677	Stage 8	2678	-6	2679	9.73
2680	Stage 8	2681	-6.2	2682	8.81
2683	Stage 8	2684	-6.4	2685	7.84
2686	Stage 8	2687	-6.6	2688	6.84
2689	Stage 8	2690	-6.8	2691	5.84
2692	Stage 8	2693	-7	2694	4.86
2695	Stage 8	2696	-7.2	2697	3.92
2698	Stage 8	2699	-7.4	2700	3.07
2701	Stage 8	2702	-7.5	2703	2.68
2704	Stage 8	2705	-7.7	2706	2.02
2707	Stage 8	2708	-7.9	2709	1.48
2710	Stage 8	2711	-8.1	2712	1.06
2713	Stage 8	2714	-8.3	2715	0.74
2716	Stage 8	2717	-8.5	2718	0.51
2719	Stage 8	2720	-8.7	2721	0.36
2722	Stage 8	2723	-8.9	2724	0.26
2725	Stage 8	2726	-9.1	2727	0.21
2728	Stage 8	2729	-9.3	2730	0.19
2731	Stage 8	2732	-9.5	2733	0.18
2734	Stage 8	2735	-9.7	2736	0.19
2737	Stage 8	2738	-9.9	2739	0.21
2740	Stage 8	2741	-10.1	2742	0.22
2743	Stage 8	2744	-10.3	2745	0.24
2746	Stage 8	2747	-10.5	2748	0.25
2749	Stage 8	2750	-10.7	2751	0.26

43	Design Assumption: Nominal		44		45	
	46	Stage	47	Z (m)	48	Muro: LEFT Spostamento (mm)
	2752	Stage 8	2753	-10.9	2754	0.27
	2755	Stage 8	2756	-11.1	2757	0.28
	2758	Stage 8	2759	-11.3	2760	0.29
	2761	Stage 8	2762	-11.5	2763	0.29
	2764	Stage 8	2765	-11.7	2766	0.28
	2767	Stage 8	2768	-11.9	2769	0.27
	2770	Stage 8	2771	-12	2772	0.27
	2773	Stage 8	2774	-12.2	2775	0.25
	2776	Stage 8	2777	-12.4	2778	0.22
	2779	Stage 8	2780	-12.6	2781	0.19
	2782	Stage 8	2783	-12.8	2784	0.17
	2785	Stage 8	2786	-13	2787	0.15
	2788	Stage 8	2789	-13.2	2790	0.14
	2791	Stage 8	2792	-13.4	2793	0.13
	2794	Stage 8	2795	-13.6	2796	0.12
	2797	Stage 8	2798	-13.8	2799	0.12
	2800	Stage 8	2801	-14	2802	0.12
	2803	Stage 8	2804	-14.2	2805	0.12
	2806	Stage 8	2807	-14.4	2808	0.12
	2809	Stage 8	2810	-14.6	2811	0.11
	2812	Stage 8	2813	-14.8	2814	0.11
	2815	Stage 8	2816	-15	2817	0.11
	2818	Stage 8	2819	-15.2	2820	0.11
	2821	Stage 8	2822	-15.4	2823	0.11
	2824	Stage 8	2825	-15.6	2826	0.11
	2827	Stage 8	2828	-15.8	2829	0.11
	2830	Stage 8	2831	-16	2832	0.11
	2833	Stage 8	2834	-16.2	2835	0.11
	2836	Stage 8	2837	-16.4	2838	0.1
	2839	Stage 8	2840	-16.6	2841	0.1
	2842	Stage 8	2843	-16.8	2844	0.1
	2845	Stage 8	2846	-17	2847	0.1
	2848	Stage 8	2849	-17.2	2850	0.1
	2851	Stage 8	2852	-17.4	2853	0.1
	2854	Stage 8	2855	-17.6	2856	0.1
	2857	Stage 8	2858	-17.8	2859	0.1
	2860	Stage 8	2861	-18	2862	0.1
	2863	Stage 8	2864	-18.2	2865	0.1
	2866	Stage 8	2867	-18.4	2868	0.1
	2869	Stage 8	2870	-18.6	2871	0.1
	2872	Stage 8	2873	-18.8	2874	0.1
	2875	Stage 8	2876	-19	2877	0.1
	2878	Stage 8	2879	-19.2	2880	0.1
	2881	Stage 8	2882	-19.4	2883	0.1
	2884	Stage 8	2885	-19.6	2886	0.1
	2887	Stage 8	2888	-19.8	2889	0.1
	2890	Stage 8	2891	-20	2892	0.09
	2893	Stage 8	2894	-20.2	2895	0.09
	2896	Stage 8	2897	-20.4	2898	0.09
	2899	Stage 8	2900	-20.6	2901	0.09
	2902	Stage 8	2903	-20.8	2904	0.09
	2905	Stage 8	2906	-21	2907	0.09
	2908	Stage 8	2909	-21.2	2910	0.09
	2911	Stage 8	2912	-21.4	2913	0.09
	2914	Stage 8	2915	-21.6	2916	0.09
	2917	Stage 8	2918	-21.8	2919	0.09
	2920	Stage 8	2921	-22	2922	0.09
	2923	Stage 8	2924	-22.2	2925	0.09
	2926	Stage 8	2927	-22.4	2928	0.09
	2929	Stage 8	2930	-22.6	2931	0.09

<b>43</b>	<b>Design Assumption: Nominal</b>		<b>Tipo Risultato: Spostamento</b>		<b>45</b>	<b>Muro: LEFT</b>	
<b>46</b>	<b>Stage</b>	<b>47</b>	<b>Z (m)</b>	<b>48</b>	<b>Spostamento (mm)</b>		
2932	Stage 8	2933	-22.8	2934	0.09		
2935	Stage 8	2936	-23	2937	0.09		
2938	Stage 8	2939	-23.2	2940	0.09		
2941	Stage 8	2942	-23.4	2943	0.09		
2944	Stage 8	2945	-23.6	2946	0.09		
2947	Stage 8	2948	-23.8	2949	0.09		
2950	Stage 8	2951	-24	2952	0.09		

**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	-11.42
	2956	Stage 9	2957	-0.2	2958	-9.58
	2959	Stage 9	2960	-0.3	2961	-8.66
	2962	Stage 9	2963	-0.5	2964	-6.82
	2965	Stage 9	2966	-0.7	2967	-5.03
	2968	Stage 9	2969	-0.9	2970	-3.34
	2971	Stage 9	2972	-1.1	2973	-1.77
	2974	Stage 9	2975	-1.3	2976	-0.33
	2977	Stage 9	2978	-1.5	2979	0.99
	2980	Stage 9	2981	-1.7	2982	2.18
	2983	Stage 9	2984	-1.9	2985	3.26
	2986	Stage 9	2987	-2.1	2988	4.24
	2989	Stage 9	2990	-2.3	2991	5.14
	2992	Stage 9	2993	-2.5	2994	5.99
	2995	Stage 9	2996	-2.7	2997	6.81
	2998	Stage 9	2999	-2.9	3000	7.64
	3001	Stage 9	3002	-3	3003	8.06
	3004	Stage 9	3005	-3.2	3006	8.94
	3007	Stage 9	3008	-3.4	3009	9.82
	3010	Stage 9	3011	-3.6	3012	10.67
	3013	Stage 9	3014	-3.8	3015	11.43
	3016	Stage 9	3017	-4	3018	12.08
	3019	Stage 9	3020	-4.2	3021	12.58
	3022	Stage 9	3023	-4.4	3024	12.92
	3025	Stage 9	3026	-4.6	3027	13.09
	3028	Stage 9	3029	-4.8	3030	13.07
	3031	Stage 9	3032	-5	3033	12.87
	3034	Stage 9	3035	-5.2	3036	12.5
	3037	Stage 9	3038	-5.4	3039	11.98
	3040	Stage 9	3041	-5.6	3042	11.33
	3043	Stage 9	3044	-5.8	3045	10.58
	3046	Stage 9	3047	-6	3048	9.73
	3049	Stage 9	3050	-6.2	3051	8.81
	3052	Stage 9	3053	-6.4	3054	7.84
	3055	Stage 9	3056	-6.6	3057	6.84
	3058	Stage 9	3059	-6.8	3060	5.84
	3061	Stage 9	3062	-7	3063	4.86
	3064	Stage 9	3065	-7.2	3066	3.92
	3067	Stage 9	3068	-7.4	3069	3.07
	3070	Stage 9	3071	-7.5	3072	2.68
	3073	Stage 9	3074	-7.7	3075	2.02
	3076	Stage 9	3077	-7.9	3078	1.48
	3079	Stage 9	3080	-8.1	3081	1.06
	3082	Stage 9	3083	-8.3	3084	0.74
	3085	Stage 9	3086	-8.5	3087	0.51
	3088	Stage 9	3089	-8.7	3090	0.36
	3091	Stage 9	3092	-8.9	3093	0.26
	3094	Stage 9	3095	-9.1	3096	0.21
	3097	Stage 9	3098	-9.3	3099	0.19
	3100	Stage 9	3101	-9.5	3102	0.19
	3103	Stage 9	3104	-9.7	3105	0.2
	3106	Stage 9	3107	-9.9	3108	0.21
	3109	Stage 9	3110	-10.1	3111	0.23
	3112	Stage 9	3113	-10.3	3114	0.25
	3115	Stage 9	3116	-10.5	3117	0.26
	3118	Stage 9	3119	-10.7	3120	0.27

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 0.27
	3124	Stage 9	3125	-11.1		3126 0.25
	3127	Stage 9	3128	-11.3		3129 0.23
	3130	Stage 9	3131	-11.5		3132 0.19
	3133	Stage 9	3134	-11.7		3135 0.15
	3136	Stage 9	3137	-11.9		3138 0.11
	3139	Stage 9	3140	-12		3141 0.1
	3142	Stage 9	3143	-12.2		3144 0.1
	3145	Stage 9	3146	-12.4		3147 0.12
	3148	Stage 9	3149	-12.6		3150 0.13
	3151	Stage 9	3152	-12.8		3153 0.14
	3154	Stage 9	3155	-13		3156 0.14
	3157	Stage 9	3158	-13.2		3159 0.14
	3160	Stage 9	3161	-13.4		3162 0.13
	3163	Stage 9	3164	-13.6		3165 0.13
	3166	Stage 9	3167	-13.8		3168 0.13
	3169	Stage 9	3170	-14		3171 0.12
	3172	Stage 9	3173	-14.2		3174 0.12
	3175	Stage 9	3176	-14.4		3177 0.12
	3178	Stage 9	3179	-14.6		3180 0.11
	3181	Stage 9	3182	-14.8		3183 0.11
	3184	Stage 9	3185	-15		3186 0.11
	3187	Stage 9	3188	-15.2		3189 0.11
	3190	Stage 9	3191	-15.4		3192 0.11
	3193	Stage 9	3194	-15.6		3195 0.11
	3196	Stage 9	3197	-15.8		3198 0.11
	3199	Stage 9	3200	-16		3201 0.11
	3202	Stage 9	3203	-16.2		3204 0.11
	3205	Stage 9	3206	-16.4		3207 0.1
	3208	Stage 9	3209	-16.6		3210 0.1
	3211	Stage 9	3212	-16.8		3213 0.1
	3214	Stage 9	3215	-17		3216 0.1
	3217	Stage 9	3218	-17.2		3219 0.1
	3220	Stage 9	3221	-17.4		3222 0.1
	3223	Stage 9	3224	-17.6		3225 0.1
	3226	Stage 9	3227	-17.8		3228 0.1
	3229	Stage 9	3230	-18		3231 0.1
	3232	Stage 9	3233	-18.2		3234 0.1
	3235	Stage 9	3236	-18.4		3237 0.1
	3238	Stage 9	3239	-18.6		3240 0.1
	3241	Stage 9	3242	-18.8		3243 0.1
	3244	Stage 9	3245	-19		3246 0.1
	3247	Stage 9	3248	-19.2		3249 0.1
	3250	Stage 9	3251	-19.4		3252 0.1
	3253	Stage 9	3254	-19.6		3255 0.1
	3256	Stage 9	3257	-19.8		3258 0.1
	3259	Stage 9	3260	-20		3261 0.09
	3262	Stage 9	3263	-20.2		3264 0.09
	3265	Stage 9	3266	-20.4		3267 0.09
	3268	Stage 9	3269	-20.6		3270 0.09
	3271	Stage 9	3272	-20.8		3273 0.09
	3274	Stage 9	3275	-21		3276 0.09
	3277	Stage 9	3278	-21.2		3279 0.09
	3280	Stage 9	3281	-21.4		3282 0.09
	3283	Stage 9	3284	-21.6		3285 0.09
	3286	Stage 9	3287	-21.8		3288 0.09
	3289	Stage 9	3290	-22		3291 0.09
	3292	Stage 9	3293	-22.2		3294 0.09
	3295	Stage 9	3296	-22.4		3297 0.09
	3298	Stage 9	3299	-22.6		3300 0.09

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	0.09
	3304	Stage 9	3305	-23	3306	0.09
	3307	Stage 9	3308	-23.2	3309	0.09
	3310	Stage 9	3311	-23.4	3312	0.09
	3313	Stage 9	3314	-23.6	3315	0.09
	3316	Stage 9	3317	-23.8	3318	0.09
	3319	Stage 9	3320	-24	3321	0.09

**Tabella Spostamento Nominal - LEFT Stage: Stage 10**

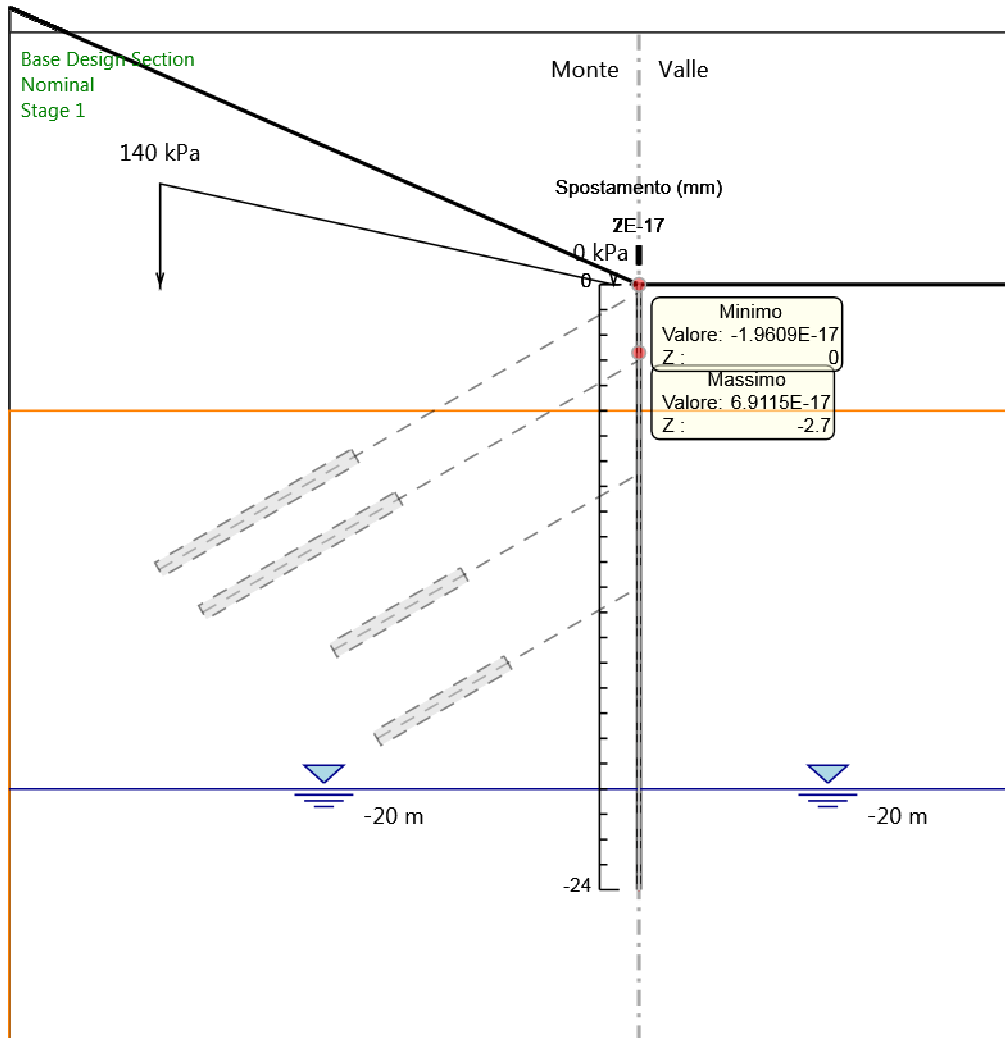
55	Design Assumption: Nominal		Tipo Risultato: Spostamento		57	Muro: LEFT
58	Stage	59	Z (m)	60	Spostamento (mm)	
3322	Stage 10	3323	0	3324	-11.42	
3325	Stage 10	3326	-0.2	3327	-9.58	
3328	Stage 10	3329	-0.3	3330	-8.66	
3331	Stage 10	3332	-0.5	3333	-6.82	
3334	Stage 10	3335	-0.7	3336	-5.03	
3337	Stage 10	3338	-0.9	3339	-3.34	
3340	Stage 10	3341	-1.1	3342	-1.77	
3343	Stage 10	3344	-1.3	3345	-0.33	
3346	Stage 10	3347	-1.5	3348	0.99	
3349	Stage 10	3350	-1.7	3351	2.18	
3352	Stage 10	3353	-1.9	3354	3.26	
3355	Stage 10	3356	-2.1	3357	4.24	
3358	Stage 10	3359	-2.3	3360	5.14	
3361	Stage 10	3362	-2.5	3363	5.99	
3364	Stage 10	3365	-2.7	3366	6.81	
3367	Stage 10	3368	-2.9	3369	7.64	
3370	Stage 10	3371	-3	3372	8.06	
3373	Stage 10	3374	-3.2	3375	8.94	
3376	Stage 10	3377	-3.4	3378	9.82	
3379	Stage 10	3380	-3.6	3381	10.67	
3382	Stage 10	3383	-3.8	3384	11.43	
3385	Stage 10	3386	-4	3387	12.08	
3388	Stage 10	3389	-4.2	3390	12.58	
3391	Stage 10	3392	-4.4	3393	12.92	
3394	Stage 10	3395	-4.6	3396	13.09	
3397	Stage 10	3398	-4.8	3399	13.07	
3400	Stage 10	3401	-5	3402	12.87	
3403	Stage 10	3404	-5.2	3405	12.5	
3406	Stage 10	3407	-5.4	3408	11.98	
3409	Stage 10	3410	-5.6	3411	11.33	
3412	Stage 10	3413	-5.8	3414	10.58	
3415	Stage 10	3416	-6	3417	9.73	
3418	Stage 10	3419	-6.2	3420	8.81	
3421	Stage 10	3422	-6.4	3423	7.84	
3424	Stage 10	3425	-6.6	3426	6.84	
3427	Stage 10	3428	-6.8	3429	5.84	
3430	Stage 10	3431	-7	3432	4.86	
3433	Stage 10	3434	-7.2	3435	3.92	
3436	Stage 10	3437	-7.4	3438	3.07	
3439	Stage 10	3440	-7.5	3441	2.68	
3442	Stage 10	3443	-7.7	3444	2.02	
3445	Stage 10	3446	-7.9	3447	1.48	
3448	Stage 10	3449	-8.1	3450	1.06	
3451	Stage 10	3452	-8.3	3453	0.74	
3454	Stage 10	3455	-8.5	3456	0.51	
3457	Stage 10	3458	-8.7	3459	0.36	
3460	Stage 10	3461	-8.9	3462	0.26	
3463	Stage 10	3464	-9.1	3465	0.21	
3466	Stage 10	3467	-9.3	3468	0.19	
3469	Stage 10	3470	-9.5	3471	0.19	
3472	Stage 10	3473	-9.7	3474	0.2	
3475	Stage 10	3476	-9.9	3477	0.21	
3478	Stage 10	3479	-10.1	3480	0.23	
3481	Stage 10	3482	-10.3	3483	0.25	
3484	Stage 10	3485	-10.5	3486	0.26	
3487	Stage 10	3488	-10.7	3489	0.26	



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	0.26
3493	Stage 10	3494	-11.1		3495	0.25
3496	Stage 10	3497	-11.3		3498	0.22
3499	Stage 10	3500	-11.5		3501	0.19
3502	Stage 10	3503	-11.7		3504	0.15
3505	Stage 10	3506	-11.9		3507	0.12
3508	Stage 10	3509	-12		3510	0.11
3511	Stage 10	3512	-12.2		3513	0.13
3514	Stage 10	3515	-12.4		3516	0.17
3517	Stage 10	3518	-12.6		3519	0.22
3520	Stage 10	3521	-12.8		3522	0.27
3523	Stage 10	3524	-13		3525	0.31
3526	Stage 10	3527	-13.2		3528	0.35
3529	Stage 10	3530	-13.4		3531	0.39
3532	Stage 10	3533	-13.6		3534	0.42
3535	Stage 10	3536	-13.8		3537	0.44
3538	Stage 10	3539	-14		3540	0.47
3541	Stage 10	3542	-14.2		3543	0.49
3544	Stage 10	3545	-14.4		3546	0.5
3547	Stage 10	3548	-14.6		3549	0.51
3550	Stage 10	3551	-14.8		3552	0.52
3553	Stage 10	3554	-15		3555	0.52
3556	Stage 10	3557	-15.2		3558	0.52
3559	Stage 10	3560	-15.4		3561	0.52
3562	Stage 10	3563	-15.6		3564	0.51
3565	Stage 10	3566	-15.8		3567	0.49
3568	Stage 10	3569	-16		3570	0.47
3571	Stage 10	3572	-16.2		3573	0.45
3574	Stage 10	3575	-16.4		3576	0.42
3577	Stage 10	3578	-16.6		3579	0.39
3580	Stage 10	3581	-16.8		3582	0.35
3583	Stage 10	3584	-17		3585	0.31
3586	Stage 10	3587	-17.2		3588	0.27
3589	Stage 10	3590	-17.4		3591	0.24
3592	Stage 10	3593	-17.6		3594	0.21
3595	Stage 10	3596	-17.8		3597	0.19
3598	Stage 10	3599	-18		3600	0.18
3601	Stage 10	3602	-18.2		3603	0.18
3604	Stage 10	3605	-18.4		3606	0.18
3607	Stage 10	3608	-18.6		3609	0.17
3610	Stage 10	3611	-18.8		3612	0.17
3613	Stage 10	3614	-19		3615	0.17
3616	Stage 10	3617	-19.2		3618	0.17
3619	Stage 10	3620	-19.4		3621	0.17
3622	Stage 10	3623	-19.6		3624	0.17
3625	Stage 10	3626	-19.8		3627	0.17
3628	Stage 10	3629	-20		3630	0.16
3631	Stage 10	3632	-20.2		3633	0.16
3634	Stage 10	3635	-20.4		3636	0.16
3637	Stage 10	3638	-20.6		3639	0.16
3640	Stage 10	3641	-20.8		3642	0.16
3643	Stage 10	3644	-21		3645	0.16
3646	Stage 10	3647	-21.2		3648	0.16
3649	Stage 10	3650	-21.4		3651	0.16
3652	Stage 10	3653	-21.6		3654	0.16
3655	Stage 10	3656	-21.8		3657	0.16
3658	Stage 10	3659	-22		3660	0.16
3661	Stage 10	3662	-22.2		3663	0.16
3664	Stage 10	3665	-22.4		3666	0.15
3667	Stage 10	3668	-22.6		3669	0.15

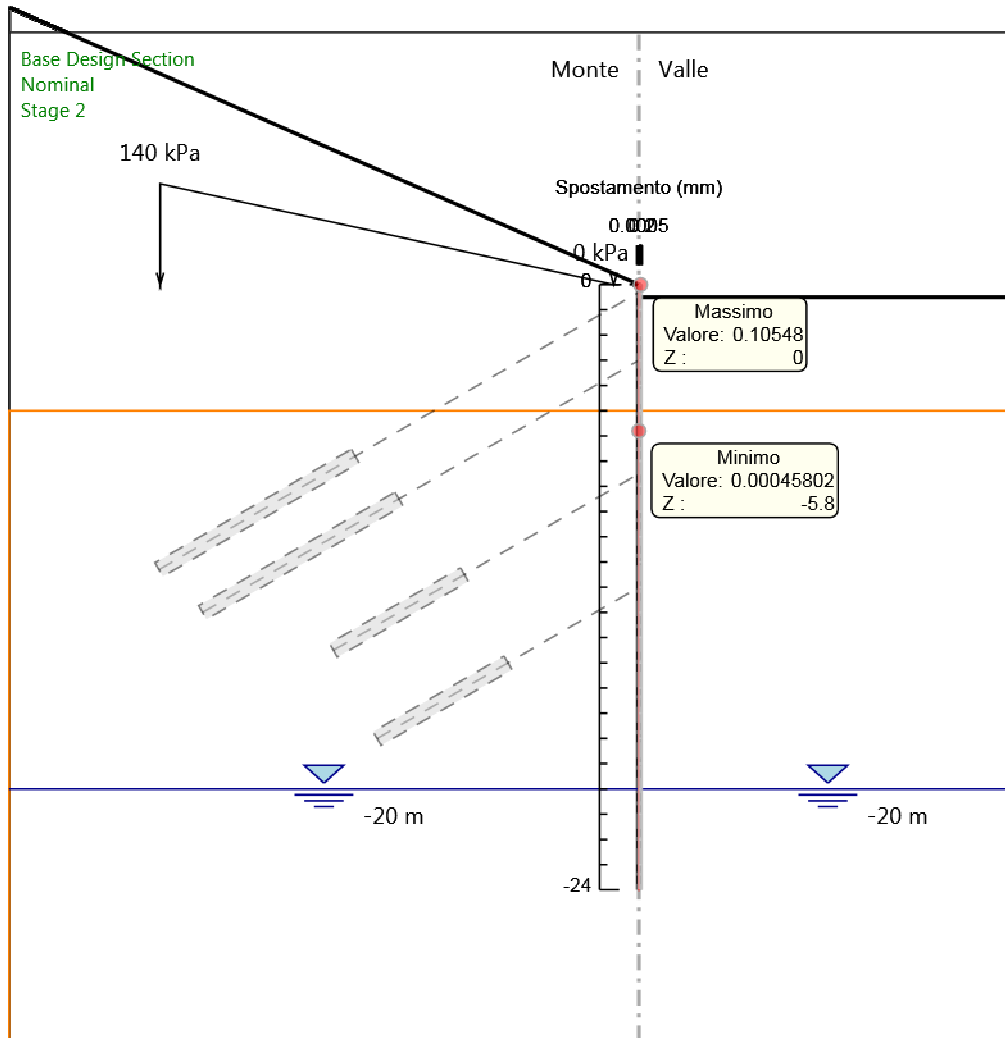
55	Design Assumption: Nominal		56		Tipo Risultato: Spostamento		57	Muro: LEFT	
58	Stage		59	Z (m)	60	Spostamento (mm)			
3670	Stage 10		3671	-22.8		3672	0.15		
3673	Stage 10		3674	-23		3675	0.15		
3676	Stage 10		3677	-23.2		3678	0.15		
3679	Stage 10		3680	-23.4		3681	0.15		
3682	Stage 10		3683	-23.6		3684	0.15		
3685	Stage 10		3686	-23.8		3687	0.15		
3688	Stage 10		3689	-24		3690	0.15		

**Grafico Spostamento Nominal - Stage: Stage 1**



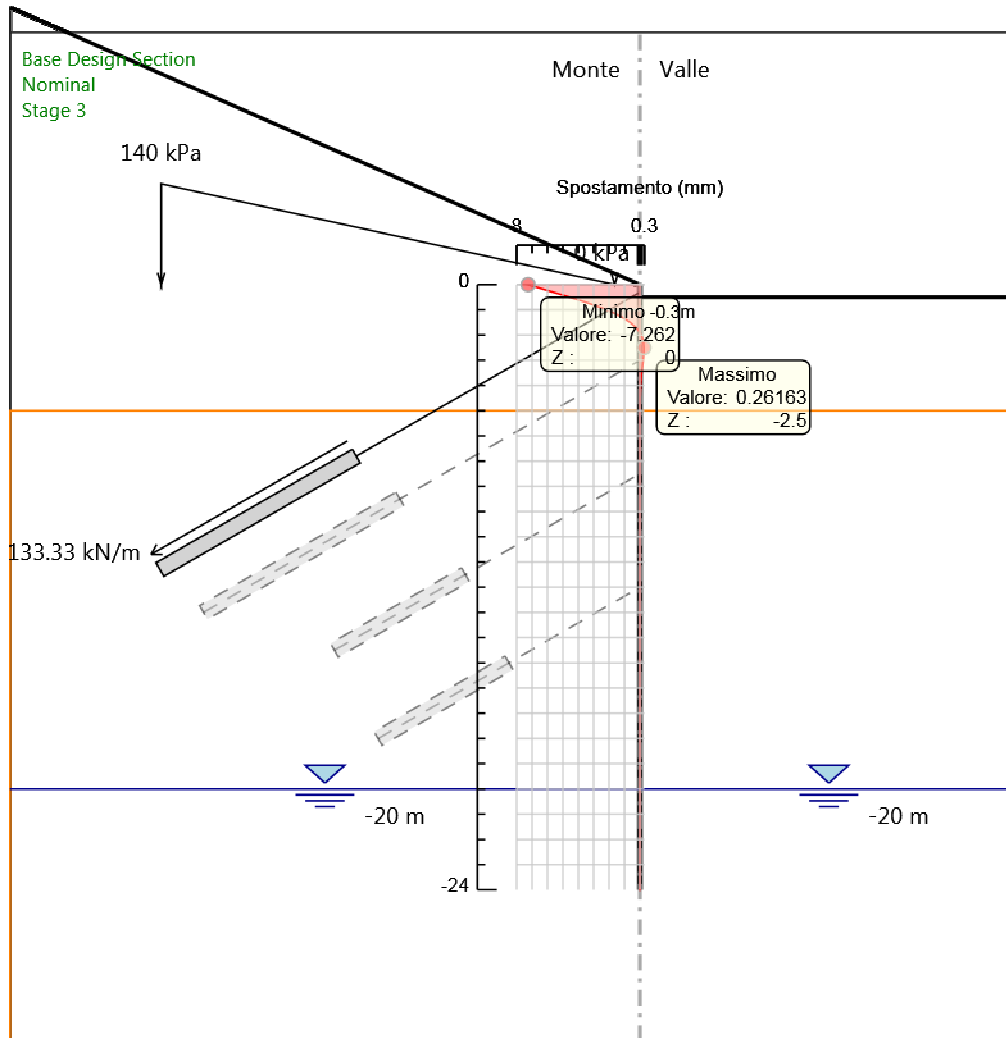
- 1.
2. Design Assumption: Nominal
3. Stage: Stage 1
4. Spostamento

**Grafico Spostamento Nominal - Stage: Stage 2**



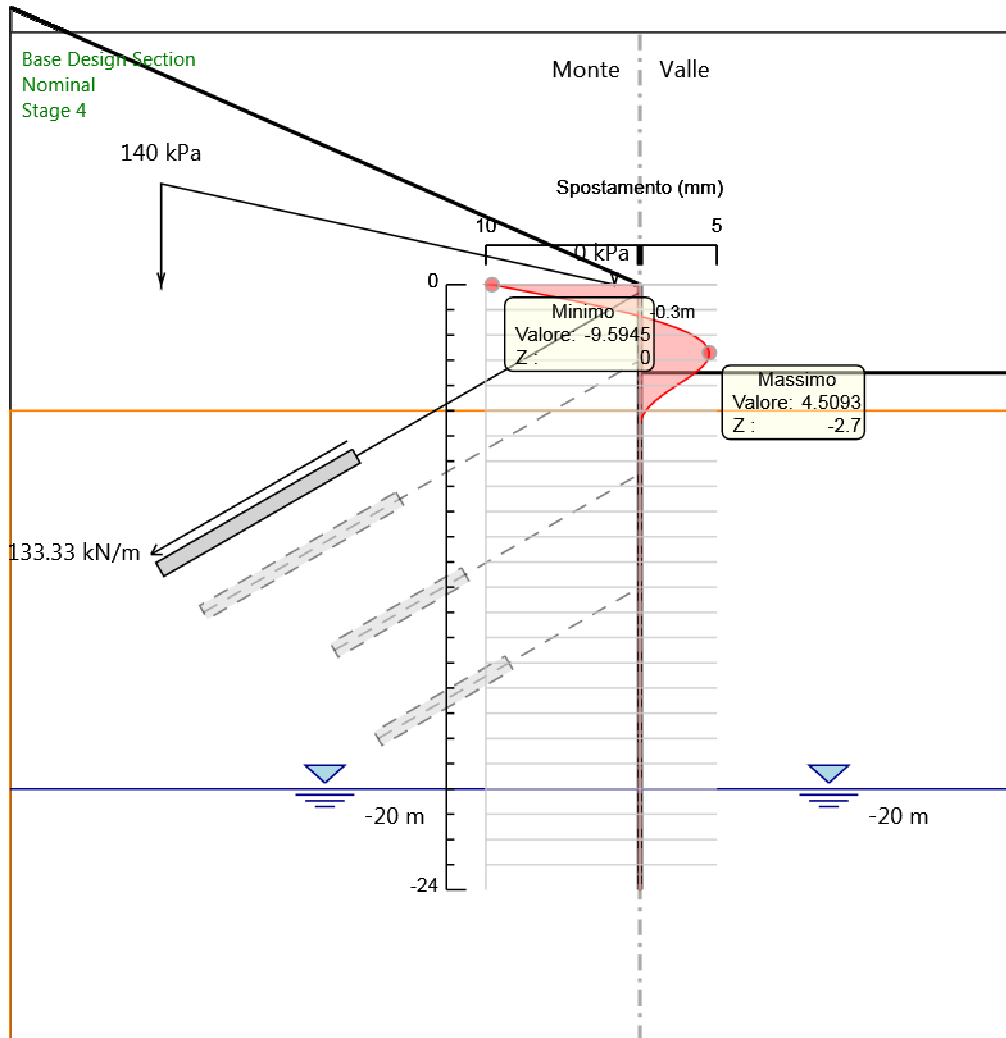
- 5.
6. Design Assumption: Nominal
7. Stage: Stage 2
8. Spostamento

**Grafico Spostamento Nominal - Stage: Stage 3**



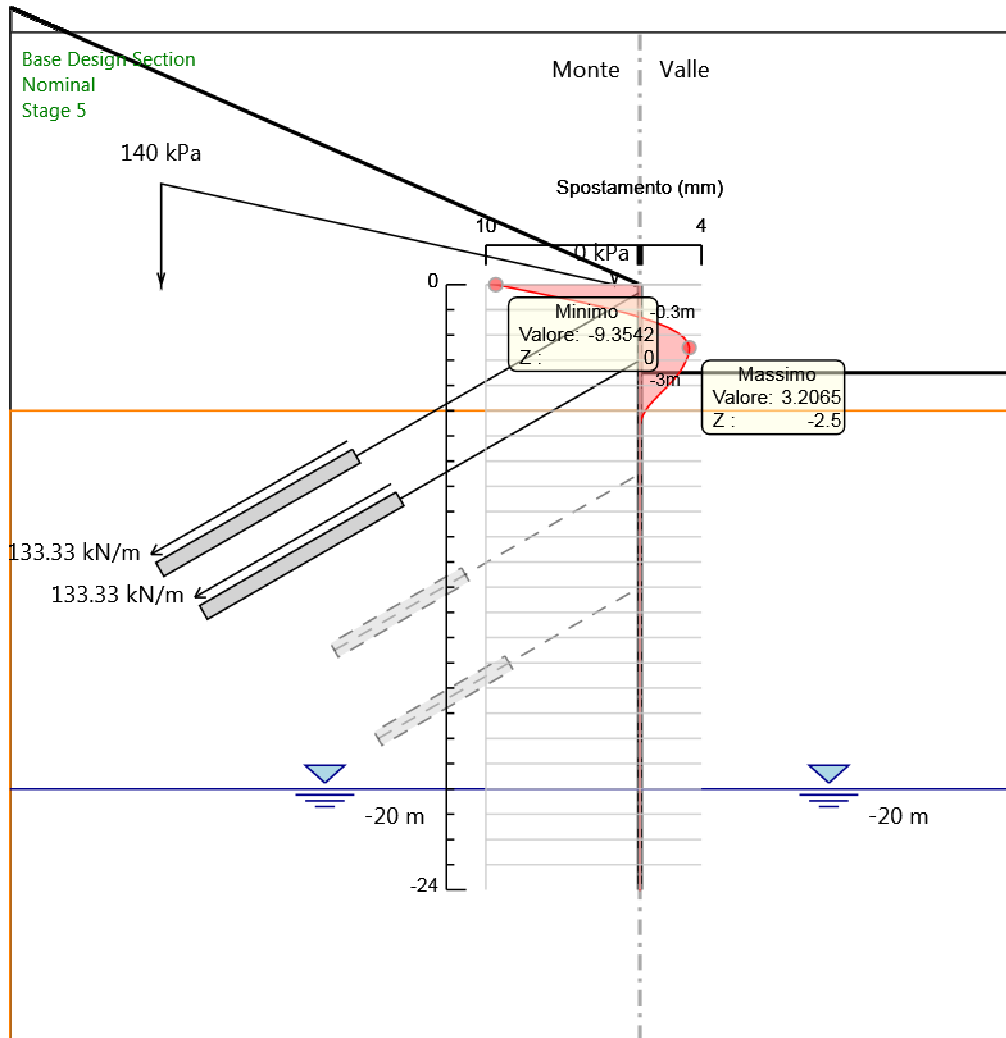
- 9.
- 10. Design Assumption: Nominal
- 11. Stage: Stage 3
- 12. Spostamento

**Grafico Spostamento Nominal - Stage: Stage 4**



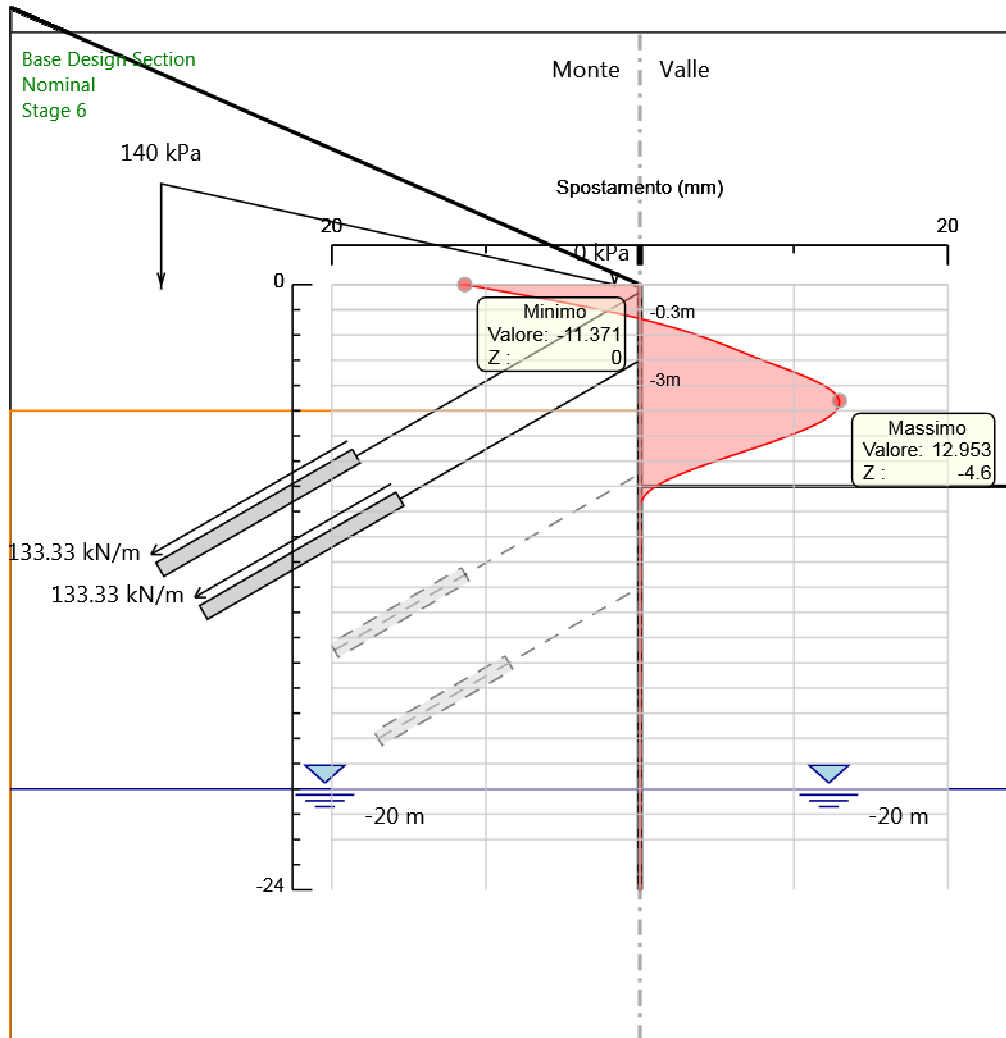
- 13.
- 14. Design Assumption: Nominal
- 15. Stage: Stage 4
- 16. Spostamento

**Grafico Spostamento Nominal - Stage: Stage 5**



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

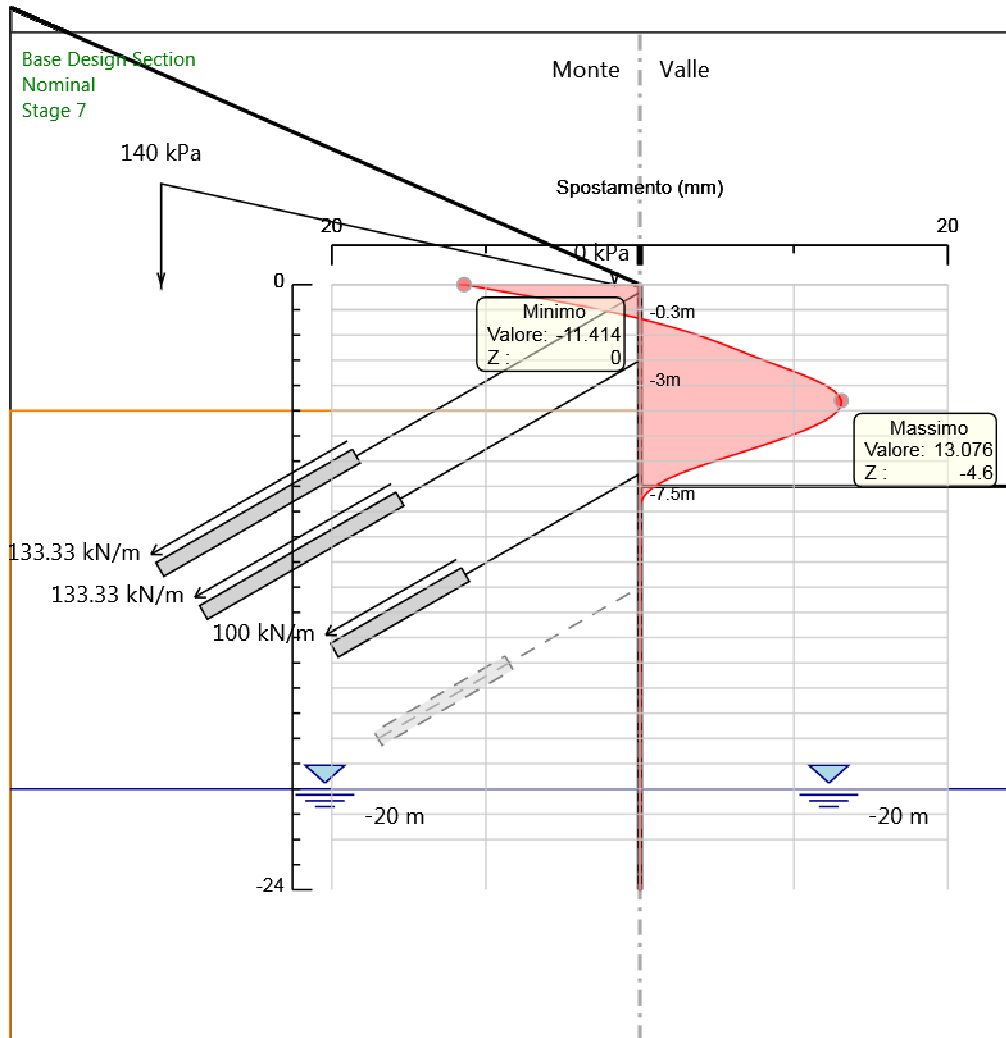
**Grafico Spostamento Nominal - Stage: Stage 6**



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

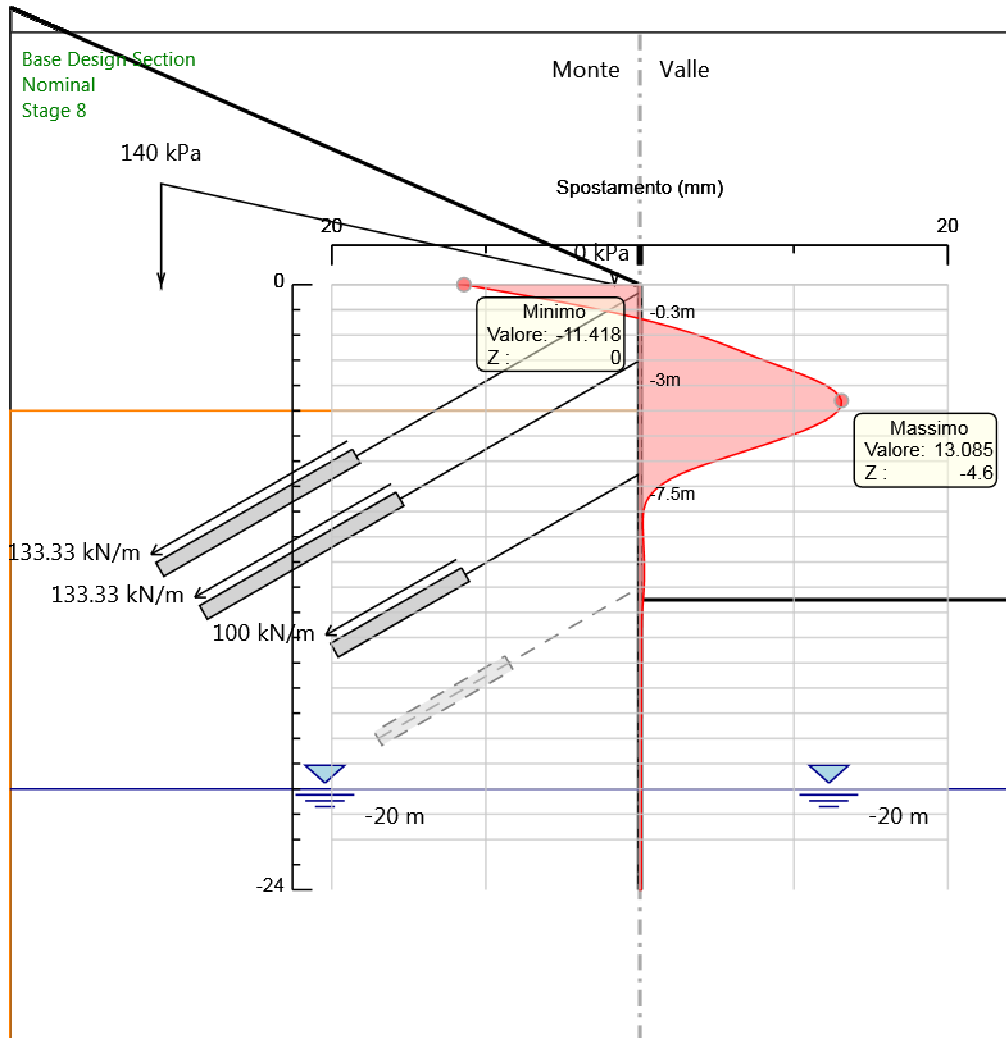


**Grafico Spostamento Nominal - Stage: Stage 7**



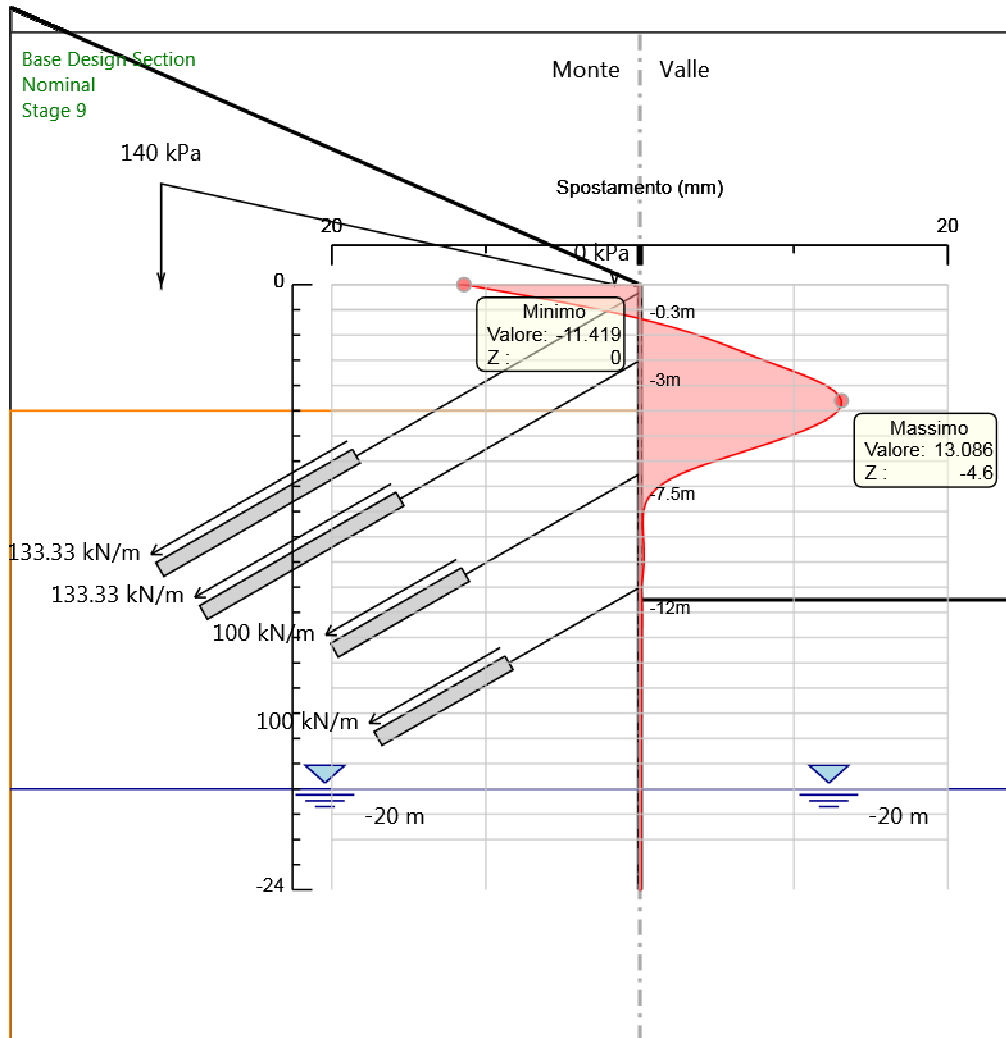
- 25.
- 26. Design Assumption: Nominal
- 27. Stage: Stage 7
- 28. Spostamento

**Grafico Spostamento Nominal - Stage: Stage 8**



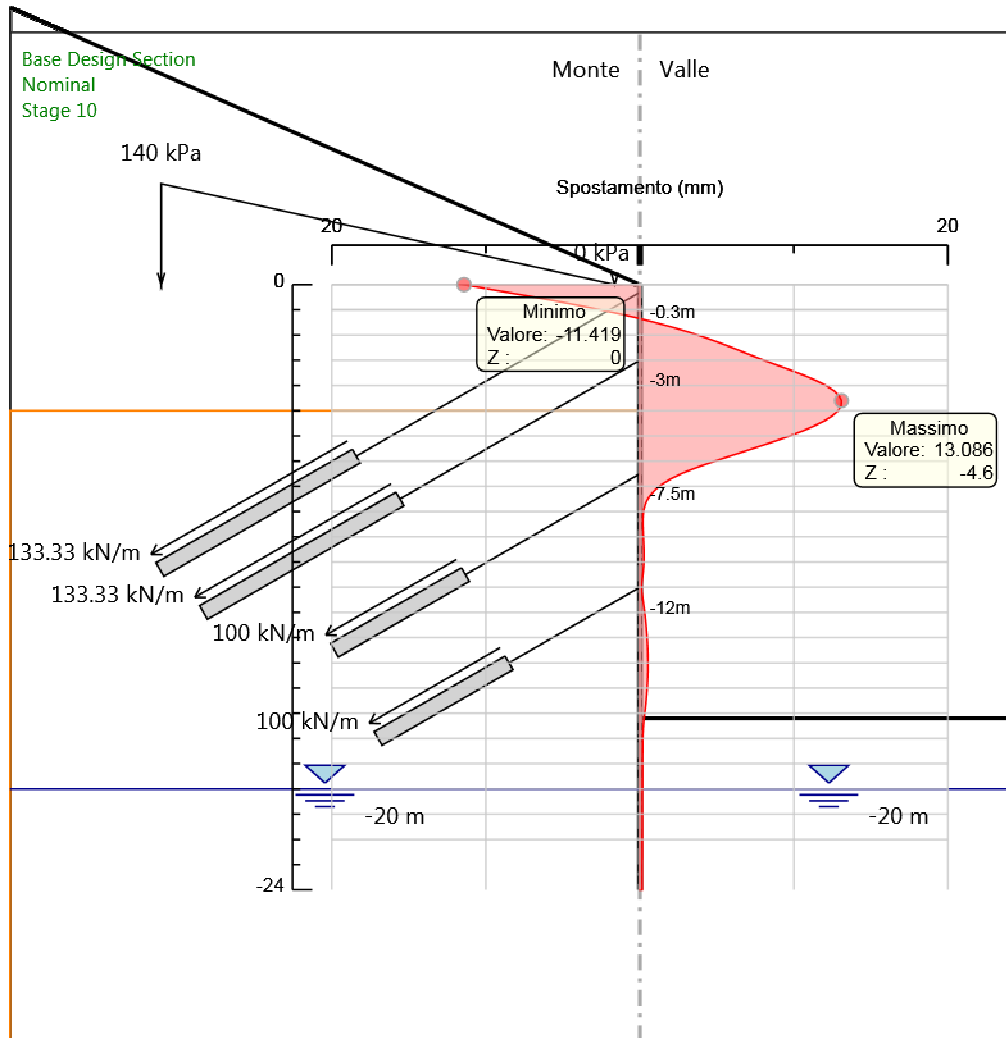
- 29.
- 30. Design Assumption: Nominal
- 31. Stage: Stage 8
- 32. Spostamento

**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

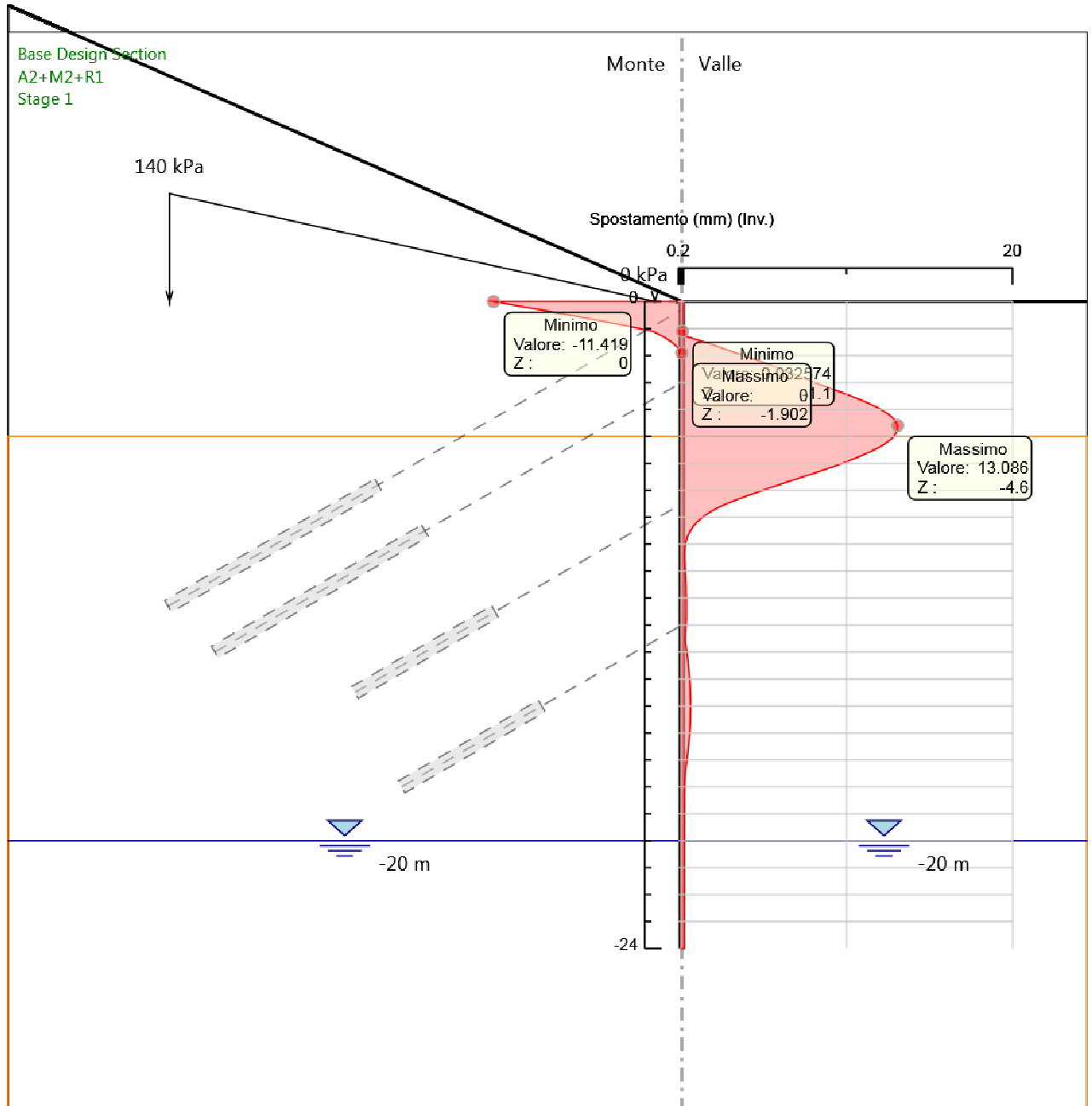
Tabella Inviluppi Spostamento Nominal Left Wall

61	Design Assumption: Nominal 62		Inviluppi: Spostamento		63	Muro: LEFT	
	64	Z (m)	65	Lato sinistro (mm)	66	Lato destro (mm)	
	3691	0	3692	-11.419	3693	0.105	
	3694	-0.2	3695	-9.58	3696	0.09	
	3697	-0.3	3698	-8.659	3699	0.082	
	3700	-0.5	3701	-6.822	3702	0.067	
	3703	-0.7	3704	-5.035	3705	0.053	
	3706	-0.9	3707	-3.343	3708	0.041	
	3709	-1.1	3710	-1.783	3711	0.033	
	3712	-1.3	3713	-1.13	3714	0.299	
	3715	-1.5	3716	-0.623	3717	1.39	
	3718	-1.7	3719	-0.253	3720	2.322	
	3721	-1.9	3722	-0.002	3723	3.256	
	3724	-2.1	3725	0	3726	4.238	
	3727	-2.3	3728	0	3729	5.141	
	3730	-2.5	3731	0	3732	5.99	
	3733	-2.7	3734	0	3735	6.811	
	3736	-2.9	3737	0	3738	7.635	
	3739	-3	3740	0	3741	8.059	
	3742	-3.2	3743	0	3744	8.938	
	3745	-3.4	3746	0	3747	9.823	
	3748	-3.6	3749	0	3750	10.667	
	3751	-3.8	3752	0	3753	11.43	
	3754	-4	3755	0	3756	12.077	
	3757	-4.2	3758	0	3759	12.581	
	3760	-4.4	3761	0	3762	12.922	
	3763	-4.6	3764	0	3765	13.086	
	3766	-4.8	3767	0	3768	13.067	
	3769	-5	3770	0	3771	12.868	
	3772	-5.2	3773	0	3774	12.501	
	3775	-5.4	3776	0	3777	11.983	
	3778	-5.6	3779	-0.005	3780	11.335	
	3781	-5.8	3782	-0.023	3783	10.579	
	3784	-6	3785	-0.019	3786	9.734	
	3787	-6.2	3788	-0.009	3789	8.819	
	3790	-6.4	3791	0	3792	7.853	
	3793	-6.6	3794	0	3795	6.858	
	3796	-6.8	3797	0	3798	5.877	
	3799	-7	3800	0	3801	4.916	
	3802	-7.2	3803	0	3804	3.99	
	3805	-7.4	3806	0	3807	3.118	
	3808	-7.5	3809	0	3810	2.708	
	3811	-7.7	3812	0	3813	2.016	
	3814	-7.9	3815	0	3816	1.48	
	3817	-8.1	3818	0	3819	1.061	
	3820	-8.3	3821	0	3822	0.743	
	3823	-8.5	3824	0	3825	0.513	
	3826	-8.7	3827	0	3828	0.357	
	3829	-8.9	3830	-0.014	3831	0.259	
	3832	-9.1	3833	-0.018	3834	0.208	
	3835	-9.3	3836	-0.002	3837	0.188	
	3838	-9.5	3839	0	3840	0.188	
	3841	-9.7	3842	0	3843	0.199	
	3844	-9.9	3845	0	3846	0.214	
	3847	-10.1	3848	0	3849	0.231	

61	Design Assumption: Nominal 62		Inviluppi: Spostamento 63		Muro: LEFT	
64	Z (m)	65	Lato sinistro (mm)	66	Lato destro (mm)	
3850	-10.3		3851	0	3852	0.248
3853	-10.5		3854	0	3855	0.26
3856	-10.7		3857	0	3858	0.267
3859	-10.9		3860	0	3861	0.274
3862	-11.1		3863	0	3864	0.282
3865	-11.3		3866	0	3867	0.286
3868	-11.5		3869	0	3870	0.286
3871	-11.7		3872	0	3873	0.282
3874	-11.9		3875	0	3876	0.272
3877	-12		3878	0	3879	0.265
3880	-12.2		3881	0	3882	0.247
3883	-12.4		3884	0	3885	0.222
3886	-12.6		3887	0	3888	0.22
3889	-12.8		3890	0	3891	0.267
3892	-13		3893	0	3894	0.311
3895	-13.2		3896	0	3897	0.35
3898	-13.4		3899	0	3900	0.386
3901	-13.6		3902	0	3903	0.417
3904	-13.8		3905	0	3906	0.445
3907	-14		3908	0	3909	0.468
3910	-14.2		3911	0	3912	0.487
3913	-14.4		3914	0	3915	0.503
3916	-14.6		3917	0	3918	0.514
3919	-14.8		3920	0	3921	0.52
3922	-15		3923	0	3924	0.523
3925	-15.2		3926	0	3927	0.522
3928	-15.4		3929	0	3930	0.516
3931	-15.6		3932	0	3933	0.506
3934	-15.8		3935	0	3936	0.491
3937	-16		3938	0	3939	0.473
3940	-16.2		3941	0	3942	0.45
3943	-16.4		3944	0	3945	0.422
3946	-16.6		3947	0	3948	0.39
3949	-16.8		3950	0	3951	0.354
3952	-17		3953	0	3954	0.314
3955	-17.2		3956	0	3957	0.273
3958	-17.4		3959	0	3960	0.237
3961	-17.6		3962	0	3963	0.211
3964	-17.8		3965	0	3966	0.194
3967	-18		3968	0	3969	0.184
3970	-18.2		3971	0	3972	0.179
3973	-18.4		3974	0	3975	0.176
3976	-18.6		3977	0	3978	0.174
3979	-18.8		3980	0	3981	0.173
3982	-19		3983	0	3984	0.171
3985	-19.2		3986	0	3987	0.17
3988	-19.4		3989	0	3990	0.168
3991	-19.6		3992	0	3993	0.167
3994	-19.8		3995	0	3996	0.165
3997	-20		3998	0	3999	0.164
4000	-20.2		4001	0	4002	0.163
4003	-20.4		4004	0	4005	0.162
4006	-20.6		4007	0	4008	0.161
4009	-20.8		4010	0	4011	0.16
4012	-21		4013	0	4014	0.159
4015	-21.2		4016	0	4017	0.159
4018	-21.4		4019	0	4020	0.158
4021	-21.6		4022	0	4023	0.157
4024	-21.8		4025	0	4026	0.157
4027	-22		4028	0	4029	0.156

61	Design Assumption: Nominal 62		Involuppi: Spostamento 63		Muro: LEFT	
	64	Z (m)	65	Lato sinistro (mm)	66	Lato destro (mm)
	4030	-22.2	4031	0	4032	0.155
	4033	-22.4	4034	0	4035	0.155
	4036	-22.6	4037	0	4038	0.154
	4039	-22.8	4040	0	4041	0.154
	4042	-23	4043	0	4044	0.153
	4045	-23.2	4046	0	4047	0.152
	4048	-23.4	4049	0	4050	0.152
	4051	-23.6	4052	0	4053	0.151
	4054	-23.8	4055	0	4056	0.151
	4057	-24	4058	0	4059	0.15

### Grafico Involuppi 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)
4060	Stage 1	4061	0		4062	0	4063 0
4064	Stage 1	4065	-0.2		4066	0	4067 0
4068	Stage 1	4069	-0.3		4070	0	4071 0
4072	Stage 1	4073	-0.5		4074	0	4075 0
4076	Stage 1	4077	-0.7		4078	0	4079 0
4080	Stage 1	4081	-0.9		4082	0	4083 0
4084	Stage 1	4085	-1.1		4086	0	4087 0
4088	Stage 1	4089	-1.3		4090	0	4091 0
4092	Stage 1	4093	-1.5		4094	0	4095 0
4096	Stage 1	4097	-1.7		4098	0	4099 0
4100	Stage 1	4101	-1.9		4102	0	4103 0
4104	Stage 1	4105	-2.1		4106	0	4107 0
4108	Stage 1	4109	-2.3		4110	0	4111 0
4112	Stage 1	4113	-2.5		4114	0	4115 0
4116	Stage 1	4117	-2.7		4118	0	4119 0
4120	Stage 1	4121	-2.9		4122	0	4123 0
4124	Stage 1	4125	-3		4126	0	4127 0
4128	Stage 1	4129	-3.2		4130	0	4131 0
4132	Stage 1	4133	-3.4		4134	0	4135 0
4136	Stage 1	4137	-3.6		4138	0	4139 0
4140	Stage 1	4141	-3.8		4142	0	4143 0
4144	Stage 1	4145	-4		4146	0	4147 0
4148	Stage 1	4149	-4.2		4150	0	4151 0
4152	Stage 1	4153	-4.4		4154	0	4155 0
4156	Stage 1	4157	-4.6		4158	0	4159 0
4160	Stage 1	4161	-4.8		4162	0	4163 0
4164	Stage 1	4165	-5		4166	0	4167 0
4168	Stage 1	4169	-5.2		4170	0	4171 0
4172	Stage 1	4173	-5.4		4174	0	4175 0
4176	Stage 1	4177	-5.6		4178	0	4179 0
4180	Stage 1	4181	-5.8		4182	0	4183 0
4184	Stage 1	4185	-6		4186	0	4187 0
4188	Stage 1	4189	-6.2		4190	0	4191 0
4192	Stage 1	4193	-6.4		4194	0	4195 0
4196	Stage 1	4197	-6.6		4198	0	4199 0
4200	Stage 1	4201	-6.8		4202	0	4203 0
4204	Stage 1	4205	-7		4206	0	4207 0
4208	Stage 1	4209	-7.2		4210	0	4211 0
4212	Stage 1	4213	-7.4		4214	0	4215 0
4216	Stage 1	4217	-7.5		4218	0	4219 0
4220	Stage 1	4221	-7.7		4222	0	4223 0
4224	Stage 1	4225	-7.9		4226	0	4227 0
4228	Stage 1	4229	-8.1		4230	0	4231 0
4232	Stage 1	4233	-8.3		4234	0	4235 0
4236	Stage 1	4237	-8.5		4238	0	4239 0
4240	Stage 1	4241	-8.7		4242	0	4243 0
4244	Stage 1	4245	-8.9		4246	0	4247 0
4248	Stage 1	4249	-9.1		4250	0	4251 0
4252	Stage 1	4253	-9.3		4254	0	4255 0
4256	Stage 1	4257	-9.5		4258	0	4259 0
4260	Stage 1	4261	-9.7		4262	0	4263 0
4264	Stage 1	4265	-9.9		4266	0	4267 0
4268	Stage 1	4269	-10.1		4270	0	4271 0

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)	
	4272	Stage 1	4273	-10.3		4274	0	4275	0
	4276	Stage 1	4277	-10.5		4278	0	4279	0
	4280	Stage 1	4281	-10.7		4282	0	4283	0
	4284	Stage 1	4285	-10.9		4286	0	4287	0
	4288	Stage 1	4289	-11.1		4290	0	4291	0
	4292	Stage 1	4293	-11.3		4294	0	4295	0
	4296	Stage 1	4297	-11.5		4298	0	4299	0
	4300	Stage 1	4301	-11.7		4302	0	4303	0
	4304	Stage 1	4305	-11.9		4306	0	4307	0
	4308	Stage 1	4309	-12		4310	0	4311	0
	4312	Stage 1	4313	-12.2		4314	0	4315	0
	4316	Stage 1	4317	-12.4		4318	0	4319	0
	4320	Stage 1	4321	-12.6		4322	0	4323	0
	4324	Stage 1	4325	-12.8		4326	0	4327	0
	4328	Stage 1	4329	-13		4330	0	4331	0
	4332	Stage 1	4333	-13.2		4334	0	4335	0
	4336	Stage 1	4337	-13.4		4338	0	4339	0
	4340	Stage 1	4341	-13.6		4342	0	4343	0
	4344	Stage 1	4345	-13.8		4346	0	4347	0
	4348	Stage 1	4349	-14		4350	0	4351	0
	4352	Stage 1	4353	-14.2		4354	0	4355	0
	4356	Stage 1	4357	-14.4		4358	0	4359	0
	4360	Stage 1	4361	-14.6		4362	0	4363	0
	4364	Stage 1	4365	-14.8		4366	0	4367	0
	4368	Stage 1	4369	-15		4370	0	4371	0
	4372	Stage 1	4373	-15.2		4374	0	4375	0
	4376	Stage 1	4377	-15.4		4378	0	4379	0
	4380	Stage 1	4381	-15.6		4382	0	4383	0
	4384	Stage 1	4385	-15.8		4386	0	4387	0
	4388	Stage 1	4389	-16		4390	0	4391	0
	4392	Stage 1	4393	-16.2		4394	0	4395	0
	4396	Stage 1	4397	-16.4		4398	0	4399	0
	4400	Stage 1	4401	-16.6		4402	0	4403	0
	4404	Stage 1	4405	-16.8		4406	0	4407	0
	4408	Stage 1	4409	-17		4410	0	4411	0
	4412	Stage 1	4413	-17.2		4414	0	4415	0
	4416	Stage 1	4417	-17.4		4418	0	4419	0
	4420	Stage 1	4421	-17.6		4422	0	4423	0
	4424	Stage 1	4425	-17.8		4426	0	4427	0
	4428	Stage 1	4429	-18		4430	0	4431	0
	4432	Stage 1	4433	-18.2		4434	0	4435	0
	4436	Stage 1	4437	-18.4		4438	0	4439	0
	4440	Stage 1	4441	-18.6		4442	0	4443	0
	4444	Stage 1	4445	-18.8		4446	0	4447	0
	4448	Stage 1	4449	-19		4450	0	4451	0
	4452	Stage 1	4453	-19.2		4454	0	4455	0
	4456	Stage 1	4457	-19.4		4458	0	4459	0
	4460	Stage 1	4461	-19.6		4462	0	4463	0
	4464	Stage 1	4465	-19.8		4466	0	4467	0
	4468	Stage 1	4469	-20		4470	0	4471	0
	4472	Stage 1	4473	-20.2		4474	0	4475	0
	4476	Stage 1	4477	-20.4		4478	0	4479	0
	4480	Stage 1	4481	-20.6		4482	0	4483	0
	4484	Stage 1	4485	-20.8		4486	0	4487	0
	4488	Stage 1	4489	-21		4490	0	4491	0
	4492	Stage 1	4493	-21.2		4494	0	4495	0
	4496	Stage 1	4497	-21.4		4498	0	4499	0
	4500	Stage 1	4501	-21.6		4502	0	4503	0
	4504	Stage 1	4505	-21.8		4506	0	4507	0
	4508	Stage 1	4509	-22		4510	0	4511	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)				
4512	Stage 1	4513	-22.2		4514	0	4515	0			
4516	Stage 1	4517	-22.4		4518	0	4519	0			
4520	Stage 1	4521	-22.6		4522	0	4523	0			
4524	Stage 1	4525	-22.8		4526	0	4527	0			
4528	Stage 1	4529	-23		4530	0	4531	0			
4532	Stage 1	4533	-23.2		4534	0	4535	0			
4536	Stage 1	4537	-23.4		4538	0	4539	0			
4540	Stage 1	4541	-23.6		4542	0	4543	0			
4544	Stage 1	4545	-23.8		4546	0	4547	0			
4548	Stage 1	4549	-24		4550	0	4551	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)	
	4552	Stage 2	4553	0		4554	0	4555	0
	4556	Stage 2	4557	-0.2		4558	0	4559	0
	4560	Stage 2	4561	-0.2		4562	0	4563	0
	4564	Stage 2	4565	-0.3		4566	-0.05	4567	-0.5
	4568	Stage 2	4569	-0.5		4570	-0.41	4571	-1.8
	4572	Stage 2	4573	-0.7		4574	-0.62	4575	-1.05
	4576	Stage 2	4577	-0.9		4578	-0.68	4579	-0.31
	4580	Stage 2	4581	-1.1		4582	-0.65	4583	0.17
	4584	Stage 2	4585	-1.3		4586	-0.56	4587	0.44
	4588	Stage 2	4589	-1.5		4590	-0.45	4591	0.56
	4592	Stage 2	4593	-1.7		4594	-0.34	4595	0.56
	4596	Stage 2	4597	-1.9		4598	-0.23	4599	0.51
	4600	Stage 2	4601	-2.1		4602	-0.15	4603	0.42
	4604	Stage 2	4605	-2.3		4606	-0.08	4607	0.33
	4608	Stage 2	4609	-2.5		4610	-0.03	4611	0.25
	4612	Stage 2	4613	-2.7		4614	0	4615	0.18
	4616	Stage 2	4617	-2.9		4618	0.03	4619	0.14
	4620	Stage 2	4621	-3		4622	0.04	4623	0.12
	4624	Stage 2	4625	-3.2		4626	0.07	4627	0.11
	4628	Stage 2	4629	-3.4		4630	0.09	4631	0.1
	4632	Stage 2	4633	-3.6		4634	0.11	4635	0.1
	4636	Stage 2	4637	-3.8		4638	0.13	4639	0.1
	4640	Stage 2	4641	-4		4642	0.15	4643	0.09
	4644	Stage 2	4645	-4.2		4646	0.15	4647	0.05
	4648	Stage 2	4649	-4.4		4650	0.15	4651	-0.04
	4652	Stage 2	4653	-4.6		4654	0.11	4655	-0.18
	4656	Stage 2	4657	-4.8		4658	0.03	4659	-0.4
	4660	Stage 2	4661	-5		4662	-0.11	4663	-0.7
	4664	Stage 2	4665	-5.2		4666	-0.33	4667	-1.09
	4668	Stage 2	4669	-5.4		4670	-0.26	4671	0.32
	4672	Stage 2	4673	-5.6		4674	-0.14	4675	0.62
	4676	Stage 2	4677	-5.8		4678	-0.05	4679	0.46
	4680	Stage 2	4681	-6		4682	0	4683	0.24
	4684	Stage 2	4685	-6.2		4686	0.01	4687	0.07
	4688	Stage 2	4689	-6.4		4690	0.01	4691	0
	4692	Stage 2	4693	-6.6		4694	0.01	4695	-0.03
	4696	Stage 2	4697	-6.8		4698	0	4699	-0.02
	4700	Stage 2	4701	-7		4702	0	4703	-0.01
	4704	Stage 2	4705	-7.2		4706	0	4707	0
	4708	Stage 2	4709	-7.4		4710	0	4711	0
	4712	Stage 2	4713	-7.5		4714	0	4715	0
	4716	Stage 2	4717	-7.7		4718	0	4719	0
	4720	Stage 2	4721	-7.9		4722	0	4723	0
	4724	Stage 2	4725	-8.1		4726	0	4727	0
	4728	Stage 2	4729	-8.3		4730	0	4731	0
	4732	Stage 2	4733	-8.5		4734	0	4735	0
	4736	Stage 2	4737	-8.7		4738	0	4739	0
	4740	Stage 2	4741	-8.9		4742	0	4743	0
	4744	Stage 2	4745	-9.1		4746	0	4747	0
	4748	Stage 2	4749	-9.3		4750	0	4751	0
	4752	Stage 2	4753	-9.5		4754	0	4755	0
	4756	Stage 2	4757	-9.7		4758	0	4759	0
	4760	Stage 2	4761	-9.9		4762	0	4763	0
	4764	Stage 2	4765	-10.1		4766	0	4767	0
	4768	Stage 2	4769	-10.3		4770	0	4771	0
	4772	Stage 2	4773	-10.5		4774	0	4775	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)
4776	Stage 2	4777	-10.7		4778	0	4779 0
4780	Stage 2	4781	-10.9		4782	0	4783 0
4784	Stage 2	4785	-11.1		4786	0	4787 0
4788	Stage 2	4789	-11.3		4790	0	4791 0
4792	Stage 2	4793	-11.5		4794	0	4795 0
4796	Stage 2	4797	-11.7		4798	0	4799 0
4800	Stage 2	4801	-11.9		4802	0	4803 0
4804	Stage 2	4805	-12		4806	0	4807 0
4808	Stage 2	4809	-12.2		4810	0	4811 0
4812	Stage 2	4813	-12.4		4814	0	4815 0
4816	Stage 2	4817	-12.6		4818	0	4819 0
4820	Stage 2	4821	-12.8		4822	0	4823 0
4824	Stage 2	4825	-13		4826	0	4827 0
4828	Stage 2	4829	-13.2		4830	0	4831 0
4832	Stage 2	4833	-13.4		4834	0	4835 0
4836	Stage 2	4837	-13.6		4838	0	4839 0
4840	Stage 2	4841	-13.8		4842	0	4843 0
4844	Stage 2	4845	-14		4846	0	4847 0
4848	Stage 2	4849	-14.2		4850	0	4851 0
4852	Stage 2	4853	-14.4		4854	0	4855 0
4856	Stage 2	4857	-14.6		4858	0	4859 0
4860	Stage 2	4861	-14.8		4862	0	4863 0
4864	Stage 2	4865	-15		4866	0	4867 0
4868	Stage 2	4869	-15.2		4870	0	4871 0
4872	Stage 2	4873	-15.4		4874	0	4875 0
4876	Stage 2	4877	-15.6		4878	0	4879 0
4880	Stage 2	4881	-15.8		4882	0	4883 0
4884	Stage 2	4885	-16		4886	0	4887 0
4888	Stage 2	4889	-16.2		4890	0	4891 0
4892	Stage 2	4893	-16.4		4894	0	4895 0
4896	Stage 2	4897	-16.6		4898	0	4899 0
4900	Stage 2	4901	-16.8		4902	0	4903 0
4904	Stage 2	4905	-17		4906	0	4907 0
4908	Stage 2	4909	-17.2		4910	0	4911 0
4912	Stage 2	4913	-17.4		4914	0	4915 0
4916	Stage 2	4917	-17.6		4918	0	4919 0
4920	Stage 2	4921	-17.8		4922	0	4923 0
4924	Stage 2	4925	-18		4926	0	4927 0
4928	Stage 2	4929	-18.2		4930	0	4931 0
4932	Stage 2	4933	-18.4		4934	0	4935 0
4936	Stage 2	4937	-18.6		4938	0	4939 0
4940	Stage 2	4941	-18.8		4942	0	4943 0
4944	Stage 2	4945	-19		4946	0	4947 0
4948	Stage 2	4949	-19.2		4950	0	4951 0
4952	Stage 2	4953	-19.4		4954	0	4955 0
4956	Stage 2	4957	-19.6		4958	0	4959 0
4960	Stage 2	4961	-19.8		4962	0	4963 0
4964	Stage 2	4965	-20		4966	0	4967 0
4968	Stage 2	4969	-20.2		4970	0	4971 0
4972	Stage 2	4973	-20.4		4974	0	4975 0
4976	Stage 2	4977	-20.6		4978	0	4979 0
4980	Stage 2	4981	-20.8		4982	0	4983 0
4984	Stage 2	4985	-21		4986	0	4987 0
4988	Stage 2	4989	-21		4990	0	4991 0
4992	Stage 2	4993	-21.2		4994	0	4995 0
4996	Stage 2	4997	-21.4		4998	0	4999 0
5000	Stage 2	5001	-21.6		5002	0	5003 0
5004	Stage 2	5005	-21.8		5006	0	5007 0
5008	Stage 2	5009	-22		5010	0	5011 0
5012	Stage 2	5013	-22.2		5014	0	5015 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)		
5016	Stage 2	5017	-22.4		5018	0	5019	0	
5020	Stage 2	5021	-22.6		5022	0	5023	0	
5024	Stage 2	5025	-22.8		5026	0	5027	0	
5028	Stage 2	5029	-23		5030	0	5031	0	
5032	Stage 2	5033	-23.2		5034	0	5035	0	
5036	Stage 2	5037	-23.4		5038	0	5039	0	
5040	Stage 2	5041	-23.6		5042	0	5043	0	
5044	Stage 2	5045	-23.8		5046	0	5047	0	
5048	Stage 2	5049	-24		5050	0	5051	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)	
	5052	Stage 3	5053	0	5054	0	5055	-4.86
	5056	Stage 3	5057	-0.2	5058	-0.97	5059	-4.86
	5060	Stage 3	5061	-0.3	5062	-2.57	5063	-15.98
	5064	Stage 3	5065	-0.5	5066	14.68	5067	86.25
	5068	Stage 3	5069	-0.7	5070	27.17	5071	62.43
	5072	Stage 3	5073	-0.9	5074	34.81	5075	38.21
	5076	Stage 3	5077	-1.1	5078	38.37	5079	17.82
	5080	Stage 3	5081	-1.3	5082	38.54	5083	0.82
	5084	Stage 3	5085	-1.5	5086	35.86	5087	-13.41
	5088	Stage 3	5089	-1.7	5090	31.01	5091	-24.25
	5092	Stage 3	5093	-1.9	5094	25.17	5095	-29.19
	5096	Stage 3	5097	-2.1	5098	19.12	5099	-30.27
	5100	Stage 3	5101	-2.3	5102	13.56	5103	-27.76
	5104	Stage 3	5105	-2.5	5106	8.88	5107	-23.43
	5108	Stage 3	5109	-2.7	5110	5.17	5111	-18.55
	5112	Stage 3	5113	-2.9	5114	2.41	5115	-13.8
	5116	Stage 3	5117	-3	5118	1.34	5119	-10.64
	5120	Stage 3	5121	-3.2	5122	-0.2	5123	-7.73
	5124	Stage 3	5125	-3.4	5126	-1.13	5127	-4.62
	5128	Stage 3	5129	-3.6	5130	-1.58	5131	-2.25
	5132	Stage 3	5133	-3.8	5134	-1.69	5135	-0.55
	5136	Stage 3	5137	-4	5138	-1.57	5139	0.58
	5140	Stage 3	5141	-4.2	5142	-1.32	5143	1.27
	5144	Stage 3	5145	-4.4	5146	-1.01	5147	1.52
	5148	Stage 3	5149	-4.6	5150	-0.72	5151	1.46
	5152	Stage 3	5153	-4.8	5154	-0.48	5155	1.2
	5156	Stage 3	5157	-5	5158	-0.32	5159	0.81
	5160	Stage 3	5161	-5.2	5162	-0.25	5163	0.34
	5164	Stage 3	5165	-5.4	5166	-0.13	5167	0.59
	5168	Stage 3	5169	-5.6	5170	-0.04	5171	0.44
	5172	Stage 3	5173	-5.8	5174	0	5175	0.22
	5176	Stage 3	5177	-6	5178	0.01	5179	0.07
	5180	Stage 3	5181	-6.2	5182	0.01	5183	-0.01
	5184	Stage 3	5185	-6.4	5186	0.01	5187	-0.03
	5188	Stage 3	5189	-6.6	5190	0	5191	-0.02
	5192	Stage 3	5193	-6.8	5194	0	5195	-0.01
	5196	Stage 3	5197	-7	5198	0	5199	0
	5200	Stage 3	5201	-7.2	5202	0	5203	0
	5204	Stage 3	5205	-7.4	5206	0	5207	0
	5208	Stage 3	5209	-7.5	5210	0	5211	0
	5212	Stage 3	5213	-7.7	5214	0	5215	0
	5216	Stage 3	5217	-7.9	5218	0	5219	0
	5220	Stage 3	5221	-8.1	5222	0	5223	0
	5224	Stage 3	5225	-8.3	5226	0	5227	0
	5228	Stage 3	5229	-8.5	5230	0	5231	0
	5232	Stage 3	5233	-8.7	5234	0	5235	0
	5236	Stage 3	5237	-8.9	5238	0	5239	0
	5240	Stage 3	5241	-9.1	5242	0	5243	0
	5244	Stage 3	5245	-9.3	5246	0	5247	0
	5248	Stage 3	5249	-9.5	5250	0	5251	0
	5252	Stage 3	5253	-9.7	5254	0	5255	0
	5256	Stage 3	5257	-9.9	5258	0	5259	0
	5260	Stage 3	5261	-10.1	5262	0	5263	0
	5264	Stage 3	5265	-10.3	5266	0	5267	0
	5268	Stage 3	5269	-10.5	5270	0	5271	0
	5272	Stage 3	5273	-10.7	5274	0	5275	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)
	5276	Stage 3	5277	-10.9		5278	0	5279 0
	5280	Stage 3	5281	-11.1		5282	0	5283 0
	5284	Stage 3	5285	-11.3		5286	0	5287 0
	5288	Stage 3	5289	-11.5		5290	0	5291 0
	5292	Stage 3	5293	-11.7		5294	0	5295 0
	5296	Stage 3	5297	-11.9		5298	0	5299 0
	5300	Stage 3	5301	-12		5302	0	5303 0
	5304	Stage 3	5305	-12.2		5306	0	5307 0
	5308	Stage 3	5309	-12.4		5310	0	5311 0
	5312	Stage 3	5313	-12.6		5314	0	5315 0
	5316	Stage 3	5317	-12.8		5318	0	5319 0
	5320	Stage 3	5321	-13		5322	0	5323 0
	5324	Stage 3	5325	-13.2		5326	0	5327 0
	5328	Stage 3	5329	-13.4		5330	0	5331 0
	5332	Stage 3	5333	-13.6		5334	0	5335 0
	5336	Stage 3	5337	-13.8		5338	0	5339 0
	5340	Stage 3	5341	-14		5342	0	5343 0
	5344	Stage 3	5345	-14.2		5346	0	5347 0
	5348	Stage 3	5349	-14.4		5350	0	5351 0
	5352	Stage 3	5353	-14.6		5354	0	5355 0
	5356	Stage 3	5357	-14.8		5358	0	5359 0
	5360	Stage 3	5361	-15		5362	0	5363 0
	5364	Stage 3	5365	-15.2		5366	0	5367 0
	5368	Stage 3	5369	-15.4		5370	0	5371 0
	5372	Stage 3	5373	-15.6		5374	0	5375 0
	5376	Stage 3	5377	-15.8		5378	0	5379 0
	5380	Stage 3	5381	-16		5382	0	5383 0
	5384	Stage 3	5385	-16.2		5386	0	5387 0
	5388	Stage 3	5389	-16.4		5390	0	5391 0
	5392	Stage 3	5393	-16.6		5394	0	5395 0
	5396	Stage 3	5397	-16.8		5398	0	5399 0
	5400	Stage 3	5401	-17		5402	0	5403 0
	5404	Stage 3	5405	-17.2		5406	0	5407 0
	5408	Stage 3	5409	-17.4		5410	0	5411 0
	5412	Stage 3	5413	-17.6		5414	0	5415 0
	5416	Stage 3	5417	-17.8		5418	0	5419 0
	5420	Stage 3	5421	-18		5422	0	5423 0
	5424	Stage 3	5425	-18.2		5426	0	5427 0
	5428	Stage 3	5429	-18.4		5430	0	5431 0
	5432	Stage 3	5433	-18.6		5434	0	5435 0
	5436	Stage 3	5437	-18.8		5438	0	5439 0
	5440	Stage 3	5441	-19		5442	0	5443 0
	5444	Stage 3	5445	-19.2		5446	0	5447 0
	5448	Stage 3	5449	-19.4		5450	0	5451 0
	5452	Stage 3	5453	-19.6		5454	0	5455 0
	5456	Stage 3	5457	-19.8		5458	0	5459 0
	5460	Stage 3	5461	-20		5462	0	5463 0
	5464	Stage 3	5465	-20.2		5466	0	5467 0
	5468	Stage 3	5469	-20.4		5470	0	5471 0
	5472	Stage 3	5473	-20.6		5474	0	5475 0
	5476	Stage 3	5477	-20.8		5478	0	5479 0
	5480	Stage 3	5481	-21		5482	0	5483 0
	5484	Stage 3	5485	-21.2		5486	0	5487 0
	5488	Stage 3	5489	-21.4		5490	0	5491 0
	5492	Stage 3	5493	-21.6		5494	0	5495 0
	5496	Stage 3	5497	-21.8		5498	0	5499 0
	5500	Stage 3	5501	-22		5502	0	5503 0
	5504	Stage 3	5505	-22.2		5506	0	5507 0
	5508	Stage 3	5509	-22.4		5510	0	5511 0
	5512	Stage 3	5513	-22.6		5514	0	5515 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)				
5516	Stage 3	5517	-22.8		5518	0	5519	0			
5520	Stage 3	5521	-23		5522	0	5523	0			
5524	Stage 3	5525	-23.2		5526	0	5527	0			
5528	Stage 3	5529	-23.4		5530	0	5531	0			
5532	Stage 3	5533	-23.6		5534	0	5535	0			
5536	Stage 3	5537	-23.8		5538	0	5539	0			
5540	Stage 3	5541	-24		5542	0	5543	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)
5544	Stage 4	5545	0		5546	0	5547 -4.86
5548	Stage 4	5549	-0.2		5550	-0.97	5551 -4.86
5552	Stage 4	5553	-0.3		5554	-2.57	5555 -15.98
5556	Stage 4	5557	-0.5		5558	14.31	5559 84.39
5560	Stage 4	5561	-0.7		5562	26.42	5563 60.57
5564	Stage 4	5565	-0.9		5566	33.53	5567 35.55
5568	Stage 4	5569	-1.1		5570	37.12	5571 17.94
5572	Stage 4	5573	-1.3		5574	39.11	5575 9.95
5576	Stage 4	5577	-1.5		5578	40.92	5579 9.02
5580	Stage 4	5581	-1.7		5582	42.38	5583 7.31
5584	Stage 4	5585	-1.9		5586	43.36	5587 4.89
5588	Stage 4	5589	-2.1		5590	43.72	5591 1.8
5592	Stage 4	5593	-2.3		5594	43.27	5595 -2.22
5596	Stage 4	5597	-2.5		5598	41.91	5599 -6.82
5600	Stage 4	5601	-2.7		5602	39.51	5603 -11.97
5604	Stage 4	5605	-2.9		5606	35.98	5607 -17.68
5608	Stage 4	5609	-3		5610	33.74	5611 -22.35
5612	Stage 4	5613	-3.2		5614	28.28	5615 -27.3
5616	Stage 4	5617	-3.4		5618	21.4	5619 -34.4
5620	Stage 4	5621	-3.6		5622	13	5623 -42.01
5624	Stage 4	5625	-3.8		5626	4.86	5627 -40.7
5628	Stage 4	5629	-4		5630	-2.47	5631 -36.68
5632	Stage 4	5633	-4.2		5634	-8.46	5635 -29.93
5636	Stage 4	5637	-4.4		5638	-12.95	5639 -22.45
5640	Stage 4	5641	-4.6		5642	-16.2	5643 -16.25
5644	Stage 4	5645	-4.8		5646	-18.44	5647 -11.22
5648	Stage 4	5649	-5		5650	-19.91	5651 -7.31
5652	Stage 4	5653	-5.2		5654	-20.99	5655 -5.41
5656	Stage 4	5657	-5.4		5658	-17.63	5659 16.8
5660	Stage 4	5661	-5.6		5662	-10.87	5663 33.77
5664	Stage 4	5665	-5.8		5666	-5.18	5667 28.48
5668	Stage 4	5669	-6		5670	-1.46	5671 18.56
5672	Stage 4	5673	-6.2		5674	0.44	5675 9.51
5676	Stage 4	5677	-6.4		5678	1.05	5679 3.05
5680	Stage 4	5681	-6.6		5682	0.89	5683 -0.79
5684	Stage 4	5685	-6.8		5686	0.53	5687 -1.8
5688	Stage 4	5689	-7		5690	0.23	5691 -1.52
5692	Stage 4	5693	-7.2		5694	0.05	5695 -0.9
5696	Stage 4	5697	-7.4		5698	-0.03	5699 -0.38
5700	Stage 4	5701	-7.5		5702	-0.04	5703 -0.15
5704	Stage 4	5705	-7.7		5706	-0.04	5707 0.01
5708	Stage 4	5709	-7.9		5710	-0.03	5711 0.08
5712	Stage 4	5713	-8.1		5714	-0.01	5715 0.07
5716	Stage 4	5717	-8.3		5718	0	5719 0.05
5720	Stage 4	5721	-8.5		5722	0	5723 0.02
5724	Stage 4	5725	-8.7		5726	0	5727 0.01
5728	Stage 4	5729	-8.9		5730	0	5731 0
5732	Stage 4	5733	-9.1		5734	0	5735 0
5736	Stage 4	5737	-9.3		5738	0	5739 0
5740	Stage 4	5741	-9.5		5742	0	5743 0
5744	Stage 4	5745	-9.7		5746	0	5747 0
5748	Stage 4	5749	-9.9		5750	0	5751 0
5752	Stage 4	5753	-10.1		5754	0	5755 0
5756	Stage 4	5757	-10.3		5758	0	5759 0
5760	Stage 4	5761	-10.5		5762	0	5763 0
5764	Stage 4	5765	-10.7		5766	0	5767 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)	
5768	Stage 4	5769	-10.9		5770	0	5771	0
5772	Stage 4	5773	-11.1		5774	0	5775	0
5776	Stage 4	5777	-11.3		5778	0	5779	0
5780	Stage 4	5781	-11.5		5782	0	5783	0
5784	Stage 4	5785	-11.7		5786	0	5787	0
5788	Stage 4	5789	-11.9		5790	0	5791	0
5792	Stage 4	5793	-12		5794	0	5795	0
5796	Stage 4	5797	-12.2		5798	0	5799	0
5800	Stage 4	5801	-12.4		5802	0	5803	0
5804	Stage 4	5805	-12.6		5806	0	5807	0
5808	Stage 4	5809	-12.8		5810	0	5811	0
5812	Stage 4	5813	-13		5814	0	5815	0
5816	Stage 4	5817	-13.2		5818	0	5819	0
5820	Stage 4	5821	-13.4		5822	0	5823	0
5824	Stage 4	5825	-13.6		5826	0	5827	0
5828	Stage 4	5829	-13.8		5830	0	5831	0
5832	Stage 4	5833	-14		5834	0	5835	0
5836	Stage 4	5837	-14.2		5838	0	5839	0
5840	Stage 4	5841	-14.4		5842	0	5843	0
5844	Stage 4	5845	-14.6		5846	0	5847	0
5848	Stage 4	5849	-14.8		5850	0	5851	0
5852	Stage 4	5853	-15		5854	0	5855	0
5856	Stage 4	5857	-15.2		5858	0	5859	0
5860	Stage 4	5861	-15.4		5862	0	5863	0
5864	Stage 4	5865	-15.6		5866	0	5867	0
5868	Stage 4	5869	-15.8		5870	0	5871	0
5872	Stage 4	5873	-16		5874	0	5875	0
5876	Stage 4	5877	-16.2		5878	0	5879	0
5880	Stage 4	5881	-16.4		5882	0	5883	0
5884	Stage 4	5885	-16.6		5886	0	5887	0
5888	Stage 4	5889	-16.8		5890	0	5891	0
5892	Stage 4	5893	-17		5894	0	5895	0
5896	Stage 4	5897	-17.2		5898	0	5899	0
5900	Stage 4	5901	-17.4		5902	0	5903	0
5904	Stage 4	5905	-17.6		5906	0	5907	0
5908	Stage 4	5909	-17.8		5910	0	5911	0
5912	Stage 4	5913	-18		5914	0	5915	0
5916	Stage 4	5917	-18.2		5918	0	5919	0
5920	Stage 4	5921	-18.4		5922	0	5923	0
5924	Stage 4	5925	-18.6		5926	0	5927	0
5928	Stage 4	5929	-18.8		5930	0	5931	0
5932	Stage 4	5933	-19		5934	0	5935	0
5936	Stage 4	5937	-19.2		5938	0	5939	0
5940	Stage 4	5941	-19.4		5942	0	5943	0
5944	Stage 4	5945	-19.6		5946	0	5947	0
5948	Stage 4	5949	-19.8		5950	0	5951	0
5952	Stage 4	5953	-20		5954	0	5955	0
5956	Stage 4	5957	-20.2		5958	0	5959	0
5960	Stage 4	5961	-20.4		5962	0	5963	0
5964	Stage 4	5965	-20.6		5966	0	5967	0
5968	Stage 4	5969	-20.8		5970	0	5971	0
5972	Stage 4	5973	-21		5974	0	5975	0
5976	Stage 4	5977	-21.2		5978	0	5979	0
5980	Stage 4	5981	-21.4		5982	0	5983	0
5984	Stage 4	5985	-21.6		5986	0	5987	0
5988	Stage 4	5989	-21.8		5990	0	5991	0
5992	Stage 4	5993	-22		5994	0	5995	0
5996	Stage 4	5997	-22.2		5998	0	5999	0
6000	Stage 4	6001	-22.4		6002	0	6003	0
6004	Stage 4	6005	-22.6		6006	0	6007	0

91		Design Assumption: Nominal92		Risultati Paratia		93		Muro: LEFT		94	
95	Stage	96	Z (m)	97	Momento (kN*m/m)	98	Taglio (kN/m)				
6008	Stage 4	6009	-22.8		6010	0	6011	0			
6012	Stage 4	6013	-23		6014	0	6015	0			
6016	Stage 4	6017	-23.2		6018	0	6019	0			
6020	Stage 4	6021	-23.4		6022	0	6023	0			
6024	Stage 4	6025	-23.6		6026	0	6027	0			
6028	Stage 4	6029	-23.8		6030	0	6031	0			
6032	Stage 4	6033	-24		6034	0	6035	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)	
	6036	Stage 5	6037	0		6038	0	6039	-3.58
	6040	Stage 5	6041	-0.2		6042	-0.72	6043	-3.58
	6044	Stage 5	6045	-0.3		6046	-2.04	6047	-13.21
	6048	Stage 5	6049	-0.5		6050	15.69	6051	88.62
	6052	Stage 5	6053	-0.7		6054	28.86	6055	65.87
	6056	Stage 5	6057	-0.9		6058	37.11	6059	41.23
	6060	Stage 5	6061	-1.1		6062	41.75	6063	23.23
	6064	Stage 5	6065	-1.3		6066	44.54	6067	13.92
	6068	Stage 5	6069	-1.5		6070	46.65	6071	10.56
	6072	Stage 5	6073	-1.7		6074	47.66	6075	5.08
	6076	Stage 5	6077	-1.9		6078	47.13	6079	-2.67
	6080	Stage 5	6081	-2.1		6082	44.61	6083	-12.6
	6084	Stage 5	6085	-2.3		6086	39.86	6087	-23.74
	6088	Stage 5	6089	-2.5		6090	32.67	6091	-35.97
	6092	Stage 5	6093	-2.7		6094	22.82	6095	-49.24
	6096	Stage 5	6097	-2.9		6098	10.14	6099	-63.39
	6100	Stage 5	6101	-3		6102	2.69	6103	-74.49
	6104	Stage 5	6105	-3.2		6106	8.63	6107	29.67
	6108	Stage 5	6109	-3.4		6110	11.54	6111	14.54
	6112	Stage 5	6113	-3.6		6114	11.46	6115	-0.41
	6116	Stage 5	6117	-3.8		6118	8.88	6119	-12.9
	6120	Stage 5	6121	-4		6122	4.83	6123	-20.22
	6124	Stage 5	6125	-4.2		6126	0.33	6127	-22.54
	6128	Stage 5	6129	-4.4		6130	-4.05	6131	-21.9
	6132	Stage 5	6133	-4.6		6134	-8.07	6135	-20.06
	6136	Stage 5	6137	-4.8		6138	-11.57	6139	-17.53
	6140	Stage 5	6141	-5		6142	-14.54	6143	-14.85
	6144	Stage 5	6145	-5.2		6146	-17.21	6147	-13.36
	6148	Stage 5	6149	-5.4		6150	-15.46	6151	8.75
	6152	Stage 5	6153	-5.6		6154	-10.23	6155	26.14
	6156	Stage 5	6157	-5.8		6158	-5.27	6159	24.81
	6160	Stage 5	6161	-6		6162	-1.77	6163	17.49
	6164	Stage 5	6165	-6.2		6166	0.16	6167	9.68
	6168	Stage 5	6169	-6.4		6170	0.88	6171	3.58
	6172	Stage 5	6173	-6.6		6174	0.82	6175	-0.32
	6176	Stage 5	6177	-6.8		6178	0.51	6179	-1.52
	6180	Stage 5	6181	-7		6182	0.23	6183	-1.4
	6184	Stage 5	6185	-7.2		6186	0.06	6187	-0.87
	6188	Stage 5	6189	-7.4		6190	-0.02	6191	-0.39
	6192	Stage 5	6193	-7.5		6194	-0.04	6195	-0.17
	6196	Stage 5	6197	-7.7		6198	-0.04	6199	-0.01
	6200	Stage 5	6201	-7.9		6202	-0.03	6203	0.06
	6204	Stage 5	6205	-8.1		6206	-0.01	6207	0.07
	6208	Stage 5	6209	-8.3		6210	0	6211	0.04
	6212	Stage 5	6213	-8.5		6214	0	6215	0.02
	6216	Stage 5	6217	-8.7		6218	0	6219	0.01
	6220	Stage 5	6221	-8.9		6222	0	6223	0
	6224	Stage 5	6225	-9.1		6226	0	6227	0
	6228	Stage 5	6229	-9.3		6230	0	6231	0
	6232	Stage 5	6233	-9.5		6234	0	6235	0
	6236	Stage 5	6237	-9.7		6238	0	6239	0
	6240	Stage 5	6241	-9.9		6242	0	6243	0
	6244	Stage 5	6245	-10.1		6246	0	6247	0
	6248	Stage 5	6249	-10.3		6250	0	6251	0
	6252	Stage 5	6253	-10.5		6254	0	6255	0
	6256	Stage 5	6257	-10.7		6258	0	6259	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)	
	6260	Stage 5	6261	-10.9		6262	0	6263	0
	6264	Stage 5	6265	-11.1		6266	0	6267	0
	6268	Stage 5	6269	-11.3		6270	0	6271	0
	6272	Stage 5	6273	-11.5		6274	0	6275	0
	6276	Stage 5	6277	-11.7		6278	0	6279	0
	6280	Stage 5	6281	-11.9		6282	0	6283	0
	6284	Stage 5	6285	-12		6286	0	6287	0
	6288	Stage 5	6289	-12.2		6290	0	6291	0
	6292	Stage 5	6293	-12.4		6294	0	6295	0
	6296	Stage 5	6297	-12.6		6298	0	6299	0
	6300	Stage 5	6301	-12.8		6302	0	6303	0
	6304	Stage 5	6305	-13		6306	0	6307	0
	6308	Stage 5	6309	-13.2		6310	0	6311	0
	6312	Stage 5	6313	-13.4		6314	0	6315	0
	6316	Stage 5	6317	-13.6		6318	0	6319	0
	6320	Stage 5	6321	-13.8		6322	0	6323	0
	6324	Stage 5	6325	-14		6326	0	6327	0
	6328	Stage 5	6329	-14.2		6330	0	6331	0
	6332	Stage 5	6333	-14.4		6334	0	6335	0
	6336	Stage 5	6337	-14.6		6338	0	6339	0
	6340	Stage 5	6341	-14.8		6342	0	6343	0
	6344	Stage 5	6345	-15		6346	0	6347	0
	6348	Stage 5	6349	-15.2		6350	0	6351	0
	6352	Stage 5	6353	-15.4		6354	0	6355	0
	6356	Stage 5	6357	-15.6		6358	0	6359	0
	6360	Stage 5	6361	-15.8		6362	0	6363	0
	6364	Stage 5	6365	-16		6366	0	6367	0
	6368	Stage 5	6369	-16.2		6370	0	6371	0
	6372	Stage 5	6373	-16.4		6374	0	6375	0
	6376	Stage 5	6377	-16.6		6378	0	6379	0
	6380	Stage 5	6381	-16.8		6382	0	6383	0
	6384	Stage 5	6385	-17		6386	0	6387	0
	6388	Stage 5	6389	-17.2		6390	0	6391	0
	6392	Stage 5	6393	-17.4		6394	0	6395	0
	6396	Stage 5	6397	-17.6		6398	0	6399	0
	6400	Stage 5	6401	-17.8		6402	0	6403	0
	6404	Stage 5	6405	-18		6406	0	6407	0
	6408	Stage 5	6409	-18.2		6410	0	6411	0
	6412	Stage 5	6413	-18.4		6414	0	6415	0
	6416	Stage 5	6417	-18.6		6418	0	6419	0
	6420	Stage 5	6421	-18.8		6422	0	6423	0
	6424	Stage 5	6425	-19		6426	0	6427	0
	6428	Stage 5	6429	-19.2		6430	0	6431	0
	6432	Stage 5	6433	-19.4		6434	0	6435	0
	6436	Stage 5	6437	-19.6		6438	0	6439	0
	6440	Stage 5	6441	-19.8		6442	0	6443	0
	6444	Stage 5	6445	-20		6446	0	6447	0
	6448	Stage 5	6449	-20.2		6450	0	6451	0
	6452	Stage 5	6453	-20.4		6454	0	6455	0
	6456	Stage 5	6457	-20.6		6458	0	6459	0
	6460	Stage 5	6461	-20.8		6462	0	6463	0
	6464	Stage 5	6465	-21		6466	0	6467	0
	6468	Stage 5	6469	-21.2		6470	0	6471	0
	6472	Stage 5	6473	-21.4		6474	0	6475	0
	6476	Stage 5	6477	-21.6		6478	0	6479	0
	6480	Stage 5	6481	-21.8		6482	0	6483	0
	6484	Stage 5	6485	-22		6486	0	6487	0
	6488	Stage 5	6489	-22.2		6490	0	6491	0
	6492	Stage 5	6493	-22.4		6494	0	6495	0
	6496	Stage 5	6497	-22.6		6498	0	6499	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)				
6500	Stage 5	6501	-22.8		6502	0	6503	0			
6504	Stage 5	6505	-23		6506	0	6507	0			
6508	Stage 5	6509	-23.2		6510	0	6511	0			
6512	Stage 5	6513	-23.4		6514	0	6515	0			
6516	Stage 5	6517	-23.6		6518	0	6519	0			
6520	Stage 5	6521	-23.8		6522	0	6523	0			
6524	Stage 5	6525	-24		6526	0	6527	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)
6528	Stage 6	6529	0	6530	0	6531	-4.86
6532	Stage 6	6533	-0.2	6534	-0.97	6535	-4.86
6536	Stage 6	6537	-0.3	6538	-2.57	6539	-15.98
6540	Stage 6	6541	-0.5	6542	13.92	6543	82.47
6544	Stage 6	6545	-0.7	6546	25.65	6547	58.65
6548	Stage 6	6549	-0.9	6550	31.96	6551	31.51
6552	Stage 6	6553	-1.1	6554	34.04	6555	10.41
6556	Stage 6	6557	-1.3	6558	33.61	6559	-2.16
6560	Stage 6	6561	-1.5	6562	32.13	6563	-7.4
6564	Stage 6	6565	-1.7	6566	29.5	6567	-13.15
6568	Stage 6	6569	-1.9	6570	25.63	6571	-19.33
6572	Stage 6	6573	-2.1	6574	20.53	6575	-25.49
6576	Stage 6	6577	-2.3	6578	14.47	6579	-30.3
6580	Stage 6	6581	-2.5	6582	7.49	6583	-34.9
6584	Stage 6	6585	-2.7	6586	-0.52	6587	-40.05
6588	Stage 6	6589	-2.9	6590	-9.67	6591	-45.75
6592	Stage 6	6593	-3	6594	-14.71	6595	-50.43
6596	Stage 6	6597	-3.2	6598	-1.31	6599	66.99
6600	Stage 6	6601	-3.4	6602	10.66	6603	59.88
6604	Stage 6	6605	-3.6	6606	21.12	6607	52.27
6608	Stage 6	6609	-3.8	6610	29.95	6611	44.17
6612	Stage 6	6613	-4	6614	37.07	6615	35.58
6616	Stage 6	6617	-4.2	6618	42.37	6619	26.51
6620	Stage 6	6621	-4.4	6622	45.76	6623	16.96
6624	Stage 6	6625	-4.6	6626	47.15	6627	6.94
6628	Stage 6	6629	-4.8	6630	46.44	6631	-3.56
6632	Stage 6	6633	-5	6634	43.51	6635	-14.66
6636	Stage 6	6637	-5.2	6638	38.26	6639	-26.21
6640	Stage 6	6641	-5.4	6642	33.02	6643	-26.21
6644	Stage 6	6645	-5.6	6646	27.78	6647	-26.21
6648	Stage 6	6649	-5.8	6650	22.54	6651	-26.21
6652	Stage 6	6653	-6	6654	17.29	6655	-26.21
6656	Stage 6	6657	-6.2	6658	12.05	6659	-26.21
6660	Stage 6	6661	-6.4	6662	6.81	6663	-26.21
6664	Stage 6	6665	-6.6	6666	1.57	6667	-26.21
6668	Stage 6	6669	-6.8	6670	-3.68	6671	-26.21
6672	Stage 6	6673	-7	6674	-8.92	6675	-26.21
6676	Stage 6	6677	-7.2	6678	-14.16	6679	-26.21
6680	Stage 6	6681	-7.4	6682	-19.41	6683	-26.21
6684	Stage 6	6685	-7.5	6686	-22.03	6687	-26.21
6688	Stage 6	6689	-7.7	6690	-27.27	6691	-26.21
6692	Stage 6	6693	-7.9	6694	-32.51	6695	-26.21
6696	Stage 6	6697	-8.1	6698	-37.76	6699	-26.21
6700	Stage 6	6701	-8.3	6702	-36.61	6703	5.72
6704	Stage 6	6705	-8.5	6706	-30.42	6707	30.95
6708	Stage 6	6709	-8.7	6710	-20.53	6711	49.47
6712	Stage 6	6713	-8.9	6714	-11.28	6715	46.22
6716	Stage 6	6717	-9.1	6718	-4.59	6719	33.46
6720	Stage 6	6721	-9.3	6722	-0.64	6723	19.78
6724	Stage 6	6725	-9.5	6726	1.15	6727	8.92
6728	Stage 6	6729	-9.7	6730	1.59	6731	2.2
6732	Stage 6	6733	-9.9	6734	1.36	6735	-1.12
6736	Stage 6	6737	-10.1	6738	0.92	6739	-2.2
6740	Stage 6	6741	-10.3	6742	0.51	6743	-2.09
6744	Stage 6	6745	-10.5	6746	0.2	6747	-1.51
6748	Stage 6	6749	-10.7	6750	0.02	6751	-0.89



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)	
	6752	Stage 6	6753	-10.9		6754	-0.06	6755	-0.41
	6756	Stage 6	6757	-11.1		6758	-0.08	6759	-0.11
	6760	Stage 6	6761	-11.3		6762	-0.07	6763	0.05
	6764	Stage 6	6765	-11.5		6766	-0.05	6767	0.1
	6768	Stage 6	6769	-11.7		6770	-0.03	6771	0.1
	6772	Stage 6	6773	-11.9		6774	-0.02	6775	0.07
	6776	Stage 6	6777	-12		6778	-0.01	6779	0.05
	6780	Stage 6	6781	-12.2		6782	0	6783	0.03
	6784	Stage 6	6785	-12.4		6786	0	6787	0.01
	6788	Stage 6	6789	-12.6		6790	0	6791	0
	6792	Stage 6	6793	-12.8		6794	0	6795	0
	6796	Stage 6	6797	-13		6798	0	6799	0
	6800	Stage 6	6801	-13.2		6802	0	6803	0
	6804	Stage 6	6805	-13.4		6806	0	6807	0
	6808	Stage 6	6809	-13.6		6810	0	6811	0
	6812	Stage 6	6813	-13.8		6814	0	6815	0
	6816	Stage 6	6817	-14		6818	0	6819	0
	6820	Stage 6	6821	-14.2		6822	0	6823	0
	6824	Stage 6	6825	-14.4		6826	0	6827	0
	6828	Stage 6	6829	-14.6		6830	0	6831	0
	6832	Stage 6	6833	-14.8		6834	0	6835	0
	6836	Stage 6	6837	-15		6838	0	6839	0
	6840	Stage 6	6841	-15.2		6842	0	6843	0
	6844	Stage 6	6845	-15.4		6846	0	6847	0
	6848	Stage 6	6849	-15.6		6850	0	6851	0
	6852	Stage 6	6853	-15.8		6854	0	6855	0
	6856	Stage 6	6857	-16		6858	0	6859	0
	6860	Stage 6	6861	-16.2		6862	0	6863	0
	6864	Stage 6	6865	-16.4		6866	0	6867	0
	6868	Stage 6	6869	-16.6		6870	0	6871	0
	6872	Stage 6	6873	-16.8		6874	0	6875	0
	6876	Stage 6	6877	-17		6878	0	6879	0
	6880	Stage 6	6881	-17.2		6882	0	6883	0
	6884	Stage 6	6885	-17.4		6886	0	6887	0
	6888	Stage 6	6889	-17.6		6890	0	6891	0
	6892	Stage 6	6893	-17.8		6894	0	6895	0
	6896	Stage 6	6897	-18		6898	0	6899	0
	6900	Stage 6	6901	-18.2		6902	0	6903	0
	6904	Stage 6	6905	-18.4		6906	0	6907	0
	6908	Stage 6	6909	-18.6		6910	0	6911	0
	6912	Stage 6	6913	-18.8		6914	0	6915	0
	6916	Stage 6	6917	-19		6918	0	6919	0
	6920	Stage 6	6921	-19.2		6922	0	6923	0
	6924	Stage 6	6925	-19.4		6926	0	6927	0
	6928	Stage 6	6929	-19.6		6930	0	6931	0
	6932	Stage 6	6933	-19.8		6934	0	6935	0
	6936	Stage 6	6937	-20		6938	0	6939	0
	6940	Stage 6	6941	-20.2		6942	0	6943	0
	6944	Stage 6	6945	-20.4		6946	0	6947	0
	6948	Stage 6	6949	-20.6		6950	0	6951	0
	6952	Stage 6	6953	-20.8		6954	0	6955	0
	6956	Stage 6	6957	-21		6958	0	6959	0
	6960	Stage 6	6961	-21.2		6962	0	6963	0
	6964	Stage 6	6965	-21.4		6966	0	6967	0
	6968	Stage 6	6969	-21.6		6970	0	6971	0
	6972	Stage 6	6973	-21.8		6974	0	6975	0
	6976	Stage 6	6977	-22		6978	0	6979	0
	6980	Stage 6	6981	-22.2		6982	0	6983	0
	6984	Stage 6	6985	-22.4		6986	0	6987	0
	6988	Stage 6	6989	-22.6		6990	0	6991	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)				
6992	Stage 6	6993	-22.8		6994	0	6995	0			
6996	Stage 6	6997	-23		6998	0	6999	0			
7000	Stage 6	7001	-23.2		7002	0	7003	0			
7004	Stage 6	7005	-23.4		7006	0	7007	0			
7008	Stage 6	7009	-23.6		7010	0	7011	0			
7012	Stage 6	7013	-23.8		7014	0	7015	0			
7016	Stage 6	7017	-24		7018	0	7019	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)	
	7020	Stage 7	7021	0		7022	0	7023	-4.86
	7024	Stage 7	7025	-0.2		7026	-0.97	7027	-4.86
	7028	Stage 7	7029	-0.3		7030	-2.57	7031	-15.98
	7032	Stage 7	7033	-0.5		7034	13.91	7035	82.43
	7036	Stage 7	7037	-0.7		7038	25.64	7039	58.61
	7040	Stage 7	7041	-0.9		7042	31.92	7043	31.44
	7044	Stage 7	7045	-1.1		7046	33.99	7047	10.32
	7048	Stage 7	7049	-1.3		7050	33.53	7051	-2.3
	7052	Stage 7	7053	-1.5		7054	32.02	7055	-7.54
	7056	Stage 7	7057	-1.7		7058	29.37	7059	-13.26
	7060	Stage 7	7061	-1.9		7062	25.49	7063	-19.38
	7064	Stage 7	7065	-2.1		7066	20.4	7067	-25.44
	7068	Stage 7	7069	-2.3		7070	14.38	7071	-30.11
	7072	Stage 7	7073	-2.5		7074	7.44	7075	-34.71
	7076	Stage 7	7077	-2.7		7078	-0.53	7079	-39.87
	7080	Stage 7	7081	-2.9		7082	-9.65	7083	-45.57
	7084	Stage 7	7085	-3		7086	-14.67	7087	-50.24
	7088	Stage 7	7089	-3.2		7090	-1.22	7091	67.27
	7092	Stage 7	7093	-3.4		7094	10.81	7095	60.16
	7096	Stage 7	7097	-3.6		7098	21.32	7099	52.56
	7100	Stage 7	7101	-3.8		7102	30.22	7103	44.46
	7104	Stage 7	7105	-4		7106	37.39	7107	35.87
	7108	Stage 7	7109	-4.2		7110	42.75	7111	26.79
	7112	Stage 7	7113	-4.4		7114	46.2	7115	17.24
	7116	Stage 7	7117	-4.6		7118	47.64	7119	7.22
	7120	Stage 7	7121	-4.8		7122	46.99	7123	-3.28
	7124	Stage 7	7125	-5		7126	44.11	7127	-14.37
	7128	Stage 7	7129	-5.2		7130	38.92	7131	-25.93
	7132	Stage 7	7133	-5.4		7134	33.74	7135	-25.93
	7136	Stage 7	7137	-5.6		7138	28.55	7139	-25.93
	7140	Stage 7	7141	-5.8		7142	23.37	7143	-25.93
	7144	Stage 7	7145	-6		7146	18.18	7147	-25.93
	7148	Stage 7	7149	-6.2		7150	12.99	7151	-25.93
	7152	Stage 7	7153	-6.4		7154	7.81	7155	-25.93
	7156	Stage 7	7157	-6.6		7158	2.62	7159	-25.93
	7160	Stage 7	7161	-6.8		7162	-2.57	7163	-25.93
	7164	Stage 7	7165	-7		7166	-8.46	7167	-29.47
	7168	Stage 7	7169	-7.2		7170	-16.04	7171	-37.88
	7172	Stage 7	7173	-7.4		7174	-26.29	7175	-51.27
	7176	Stage 7	7177	-7.5		7178	-32.7	7179	-64.08
	7180	Stage 7	7181	-7.7		7182	-30.84	7183	9.27
	7184	Stage 7	7185	-7.9		7186	-32.04	7187	-6
	7188	Stage 7	7189	-8.1		7190	-35.38	7191	-16.66
	7192	Stage 7	7193	-8.3		7194	-34.05	7195	6.66
	7196	Stage 7	7197	-8.5		7198	-28.43	7199	28.1
	7200	Stage 7	7201	-8.7		7202	-19.27	7203	45.77
	7204	Stage 7	7205	-8.9		7206	-10.65	7207	43.11
	7208	Stage 7	7209	-9.1		7210	-4.37	7211	31.37
	7212	Stage 7	7213	-9.3		7214	-0.64	7215	18.65
	7216	Stage 7	7217	-9.5		7218	1.05	7219	8.46
	7220	Stage 7	7221	-9.7		7222	1.47	7223	2.14
	7224	Stage 7	7225	-9.9		7226	1.27	7227	-1
	7228	Stage 7	7229	-10.1		7230	0.87	7231	-2.04
	7232	Stage 7	7233	-10.3		7234	0.48	7235	-1.95
	7236	Stage 7	7237	-10.5		7238	0.19	7239	-1.42
	7240	Stage 7	7241	-10.7		7242	0.02	7243	-0.84

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)	
	7244	Stage 7	7245	-10.9		7246	-0.05	7247	-0.39
	7248	Stage 7	7249	-11.1		7250	-0.07	7251	-0.1
	7252	Stage 7	7253	-11.3		7254	-0.07	7255	0.04
	7256	Stage 7	7257	-11.5		7258	-0.05	7259	0.09
	7260	Stage 7	7261	-11.7		7262	-0.03	7263	0.09
	7264	Stage 7	7265	-11.9		7266	-0.02	7267	0.07
	7268	Stage 7	7269	-12		7270	-0.01	7271	0.05
	7272	Stage 7	7273	-12.2		7274	0	7275	0.03
	7276	Stage 7	7277	-12.4		7278	0	7279	0.01
	7280	Stage 7	7281	-12.6		7282	0	7283	0
	7284	Stage 7	7285	-12.8		7286	0	7287	0
	7288	Stage 7	7289	-13		7290	0	7291	0
	7292	Stage 7	7293	-13.2		7294	0	7295	0
	7296	Stage 7	7297	-13.4		7298	0	7299	0
	7300	Stage 7	7301	-13.6		7302	0	7303	0
	7304	Stage 7	7305	-13.8		7306	0	7307	0
	7308	Stage 7	7309	-14		7310	0	7311	0
	7312	Stage 7	7313	-14.2		7314	0	7315	0
	7316	Stage 7	7317	-14.4		7318	0	7319	0
	7320	Stage 7	7321	-14.6		7322	0	7323	0
	7324	Stage 7	7325	-14.8		7326	0	7327	0
	7328	Stage 7	7329	-15		7330	0	7331	0
	7332	Stage 7	7333	-15.2		7334	0	7335	0
	7336	Stage 7	7337	-15.4		7338	0	7339	0
	7340	Stage 7	7341	-15.6		7342	0	7343	0
	7344	Stage 7	7345	-15.8		7346	0	7347	0
	7348	Stage 7	7349	-16		7350	0	7351	0
	7352	Stage 7	7353	-16.2		7354	0	7355	0
	7356	Stage 7	7357	-16.4		7358	0	7359	0
	7360	Stage 7	7361	-16.6		7362	0	7363	0
	7364	Stage 7	7365	-16.8		7366	0	7367	0
	7368	Stage 7	7369	-17		7370	0	7371	0
	7372	Stage 7	7373	-17.2		7374	0	7375	0
	7376	Stage 7	7377	-17.4		7378	0	7379	0
	7380	Stage 7	7381	-17.6		7382	0	7383	0
	7384	Stage 7	7385	-17.8		7386	0	7387	0
	7388	Stage 7	7389	-18		7390	0	7391	0
	7392	Stage 7	7393	-18.2		7394	0	7395	0
	7396	Stage 7	7397	-18.4		7398	0	7399	0
	7400	Stage 7	7401	-18.6		7402	0	7403	0
	7404	Stage 7	7405	-18.8		7406	0	7407	0
	7408	Stage 7	7409	-19		7410	0	7411	0
	7412	Stage 7	7413	-19.2		7414	0	7415	0
	7416	Stage 7	7417	-19.4		7418	0	7419	0
	7420	Stage 7	7421	-19.6		7422	0	7423	0
	7424	Stage 7	7425	-19.8		7426	0	7427	0
	7428	Stage 7	7429	-20		7430	0	7431	0
	7432	Stage 7	7433	-20.2		7434	0	7435	0
	7436	Stage 7	7437	-20.4		7438	0	7439	0
	7440	Stage 7	7441	-20.6		7442	0	7443	0
	7444	Stage 7	7445	-20.8		7446	0	7447	0
	7448	Stage 7	7449	-21		7450	0	7451	0
	7452	Stage 7	7453	-21.2		7454	0	7455	0
	7456	Stage 7	7457	-21.4		7458	0	7459	0
	7460	Stage 7	7461	-21.6		7462	0	7463	0
	7464	Stage 7	7465	-21.8		7466	0	7467	0
	7468	Stage 7	7469	-22		7470	0	7471	0
	7472	Stage 7	7473	-22.2		7474	0	7475	0
	7476	Stage 7	7477	-22.4		7478	0	7479	0
	7480	Stage 7	7481	-22.6		7482	0	7483	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)				
7484	Stage 7	7485	-22.8		7486	0	7487	0			
7488	Stage 7	7489	-23		7490	0	7491	0			
7492	Stage 7	7493	-23.2		7494	0	7495	0			
7496	Stage 7	7497	-23.4		7498	0	7499	0			
7500	Stage 7	7501	-23.6		7502	0	7503	0			
7504	Stage 7	7505	-23.8		7506	0	7507	0			
7508	Stage 7	7509	-24		7510	0	7511	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)
	7512	Stage 8	7513	0	7514	0	7515	-4.86
	7516	Stage 8	7517	-0.2	7518	-0.97	7519	-4.86
	7520	Stage 8	7521	-0.3	7522	-2.57	7523	-15.98
	7524	Stage 8	7525	-0.5	7526	13.91	7527	82.42
	7528	Stage 8	7529	-0.7	7530	25.63	7531	58.6
	7532	Stage 8	7533	-0.9	7534	31.92	7535	31.43
	7536	Stage 8	7537	-1.1	7538	33.98	7539	10.31
	7540	Stage 8	7541	-1.3	7542	33.52	7543	-2.3
	7544	Stage 8	7545	-1.5	7546	32.01	7547	-7.54
	7548	Stage 8	7549	-1.7	7550	29.36	7551	-13.26
	7552	Stage 8	7553	-1.9	7554	25.49	7555	-19.37
	7556	Stage 8	7557	-2.1	7558	20.4	7559	-25.43
	7560	Stage 8	7561	-2.3	7562	14.38	7563	-30.09
	7564	Stage 8	7565	-2.5	7566	7.45	7567	-34.68
	7568	Stage 8	7569	-2.7	7570	-0.52	7571	-39.84
	7572	Stage 8	7573	-2.9	7574	-9.63	7575	-45.54
	7576	Stage 8	7577	-3	7578	-14.65	7579	-50.22
	7580	Stage 8	7581	-3.2	7582	-1.19	7583	67.31
	7584	Stage 8	7585	-3.4	7586	10.85	7587	60.2
	7588	Stage 8	7589	-3.6	7590	21.37	7591	52.6
	7592	Stage 8	7593	-3.8	7594	30.27	7595	44.5
	7596	Stage 8	7597	-4	7598	37.45	7599	35.91
	7600	Stage 8	7601	-4.2	7602	42.82	7603	26.83
	7604	Stage 8	7605	-4.4	7606	46.28	7607	17.28
	7608	Stage 8	7609	-4.6	7610	47.73	7611	7.26
	7612	Stage 8	7613	-4.8	7614	47.08	7615	-3.24
	7616	Stage 8	7617	-5	7618	44.21	7619	-14.33
	7620	Stage 8	7621	-5.2	7622	39.03	7623	-25.89
	7624	Stage 8	7625	-5.4	7626	33.86	7627	-25.87
	7628	Stage 8	7629	-5.6	7630	28.68	7631	-25.89
	7632	Stage 8	7633	-5.8	7634	23.49	7635	-25.95
	7636	Stage 8	7637	-6	7638	18.24	7639	-26.28
	7640	Stage 8	7641	-6.2	7642	12.84	7643	-26.95
	7644	Stage 8	7645	-6.4	7646	7.25	7647	-27.98
	7648	Stage 8	7649	-6.6	7650	1.39	7651	-29.31
	7652	Stage 8	7653	-6.8	7654	-4.75	7655	-30.7
	7656	Stage 8	7657	-7	7658	-11.8	7659	-35.24
	7660	Stage 8	7661	-7.2	7662	-20.49	7663	-43.44
	7664	Stage 8	7665	-7.4	7666	-31.33	7667	-54.2
	7668	Stage 8	7669	-7.5	7670	-37.53	7671	-62.04
	7672	Stage 8	7673	-7.7	7674	-33.85	7675	18.44
	7676	Stage 8	7677	-7.9	7678	-30.16	7679	18.44
	7680	Stage 8	7681	-8.1	7682	-26.47	7683	18.44
	7684	Stage 8	7685	-8.3	7686	-22.78	7687	18.44
	7688	Stage 8	7689	-8.5	7690	-19.09	7691	18.44
	7692	Stage 8	7693	-8.7	7694	-15.4	7695	18.44
	7696	Stage 8	7697	-8.9	7698	-11.72	7699	18.44
	7700	Stage 8	7701	-9.1	7702	-8.03	7703	18.44
	7704	Stage 8	7705	-9.3	7706	-4.81	7707	16.09
	7708	Stage 8	7709	-9.5	7710	-2.52	7711	11.44
	7712	Stage 8	7713	-9.7	7714	-1.11	7715	7.07
	7716	Stage 8	7717	-9.9	7718	-0.35	7719	3.79
	7720	Stage 8	7721	-10.1	7722	0.01	7723	1.8
	7724	Stage 8	7725	-10.3	7726	0.21	7727	1.01
	7728	Stage 8	7729	-10.5	7730	0.39	7731	0.87
	7732	Stage 8	7733	-10.7	7734	0.55	7735	0.8

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)		
7736	Stage 8	7737	-10.9		7738	0.71	7739	0.83
7740	Stage 8	7741	-11.1		7742	0.88	7743	0.83
7744	Stage 8	7745	-11.3		7746	1.04	7747	0.83
7748	Stage 8	7749	-11.5		7750	1.21	7751	0.83
7752	Stage 8	7753	-11.7		7754	1.38	7755	0.83
7756	Stage 8	7757	-11.9		7758	1.54	7759	0.83
7760	Stage 8	7761	-12		7762	1.62	7763	0.77
7764	Stage 8	7765	-12.2		7766	1.63	7767	0.04
7768	Stage 8	7769	-12.4		7770	1	7771	-3.13
7772	Stage 8	7773	-12.6		7774	-0.82	7775	-9.07
7776	Stage 8	7777	-12.8		7778	-1.55	7779	-3.68
7780	Stage 8	7781	-13		7782	-1.6	7783	-0.22
7784	Stage 8	7785	-13.2		7786	-1.3	7787	1.46
7788	Stage 8	7789	-13.4		7790	-0.91	7791	1.95
7792	Stage 8	7793	-13.6		7794	-0.56	7795	1.77
7796	Stage 8	7797	-13.8		7798	-0.29	7799	1.33
7800	Stage 8	7801	-14		7802	-0.12	7803	0.86
7804	Stage 8	7805	-14.2		7806	-0.03	7807	0.47
7808	Stage 8	7809	-14.4		7810	0.01	7811	0.2
7812	Stage 8	7813	-14.6		7814	0.02	7815	0.04
7816	Stage 8	7817	-14.8		7818	0.01	7819	-0.03
7820	Stage 8	7821	-15		7822	0	7823	-0.05
7824	Stage 8	7825	-15.2		7826	-0.01	7827	-0.05
7828	Stage 8	7829	-15.4		7830	-0.01	7831	-0.03
7832	Stage 8	7833	-15.6		7834	-0.02	7835	-0.02
7836	Stage 8	7837	-15.8		7838	-0.02	7839	0
7840	Stage 8	7841	-16		7842	-0.02	7843	0
7844	Stage 8	7845	-16.2		7846	-0.02	7847	0.01
7848	Stage 8	7849	-16.4		7850	-0.01	7851	0.01
7852	Stage 8	7853	-16.6		7854	-0.01	7855	0.01
7856	Stage 8	7857	-16.8		7858	-0.01	7859	0.01
7860	Stage 8	7861	-17		7862	-0.01	7863	0.01
7864	Stage 8	7865	-17.2		7866	-0.01	7867	0.01
7868	Stage 8	7869	-17.4		7870	-0.01	7871	0
7872	Stage 8	7873	-17.6		7874	-0.01	7875	0
7876	Stage 8	7877	-17.8		7878	-0.01	7879	0
7880	Stage 8	7881	-18		7882	-0.01	7883	0
7884	Stage 8	7885	-18.2		7886	-0.01	7887	0
7888	Stage 8	7889	-18.4		7890	-0.01	7891	0
7892	Stage 8	7893	-18.6		7894	0	7895	0
7896	Stage 8	7897	-18.8		7898	0	7899	0
7900	Stage 8	7901	-19		7902	-0.01	7903	0
7904	Stage 8	7905	-19.2		7906	-0.01	7907	0
7908	Stage 8	7909	-19.4		7910	-0.01	7911	-0.01
7912	Stage 8	7913	-19.6		7914	-0.01	7915	-0.01
7916	Stage 8	7917	-19.8		7918	-0.01	7919	-0.01
7920	Stage 8	7921	-20		7922	-0.01	7923	0
7924	Stage 8	7925	-20.2		7926	-0.01	7927	0.01
7928	Stage 8	7929	-20.4		7930	-0.01	7931	0.01
7932	Stage 8	7933	-20.6		7934	0	7935	0.01
7936	Stage 8	7937	-20.8		7938	0	7939	0.01
7940	Stage 8	7941	-21		7942	0	7943	0.01
7944	Stage 8	7945	-21.2		7946	0	7947	0
7948	Stage 8	7949	-21.4		7950	0	7951	0
7952	Stage 8	7953	-21.6		7954	0	7955	0
7956	Stage 8	7957	-21.8		7958	0	7959	0
7960	Stage 8	7961	-22		7962	0	7963	0
7964	Stage 8	7965	-22.2		7966	0	7967	0
7968	Stage 8	7969	-22.4		7970	0	7971	0
7972	Stage 8	7973	-22.6		7974	0	7975	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)				
7976	Stage 8	7977	-22.8		7978	0	7979	0			
7980	Stage 8	7981	-23		7982	0	7983	0			
7984	Stage 8	7985	-23.2		7986	0	7987	0			
7988	Stage 8	7989	-23.4		7990	0	7991	0			
7992	Stage 8	7993	-23.6		7994	0	7995	0			
7996	Stage 8	7997	-23.8		7998	0	7999	0			
8000	Stage 8	8001	-24		8002	0	8003	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)
8004	Stage 9	8005	0	8006	0	8007	-4.86
8008	Stage 9	8009	-0.2	8010	-0.97	8011	-4.86
8012	Stage 9	8013	-0.3	8014	-2.57	8015	-15.98
8016	Stage 9	8017	-0.5	8018	13.91	8019	82.42
8020	Stage 9	8021	-0.7	8022	25.63	8023	58.6
8024	Stage 9	8025	-0.9	8026	31.92	8027	31.43
8028	Stage 9	8029	-1.1	8030	33.98	8031	10.31
8032	Stage 9	8033	-1.3	8034	33.52	8035	-2.3
8036	Stage 9	8037	-1.5	8038	32.01	8039	-7.54
8040	Stage 9	8041	-1.7	8042	29.36	8043	-13.26
8044	Stage 9	8045	-1.9	8046	25.49	8047	-19.37
8048	Stage 9	8049	-2.1	8050	20.4	8051	-25.43
8052	Stage 9	8053	-2.3	8054	14.38	8055	-30.09
8056	Stage 9	8057	-2.5	8058	7.45	8059	-34.68
8060	Stage 9	8061	-2.7	8062	-0.52	8063	-39.84
8064	Stage 9	8065	-2.9	8066	-9.63	8067	-45.54
8068	Stage 9	8069	-3	8070	-14.65	8071	-50.21
8072	Stage 9	8073	-3.2	8074	-1.19	8075	67.31
8076	Stage 9	8077	-3.4	8078	10.85	8079	60.2
8080	Stage 9	8081	-3.6	8082	21.37	8083	52.6
8084	Stage 9	8085	-3.8	8086	30.27	8087	44.5
8088	Stage 9	8089	-4	8090	37.45	8091	35.91
8092	Stage 9	8093	-4.2	8094	42.82	8095	26.84
8096	Stage 9	8097	-4.4	8098	46.28	8099	17.28
8100	Stage 9	8101	-4.6	8102	47.73	8103	7.26
8104	Stage 9	8105	-4.8	8106	47.08	8107	-3.24
8108	Stage 9	8109	-5	8110	44.21	8111	-14.33
8112	Stage 9	8113	-5.2	8114	39.04	8115	-25.89
8116	Stage 9	8117	-5.4	8118	33.86	8119	-25.89
8120	Stage 9	8121	-5.6	8122	28.68	8123	-25.9
8124	Stage 9	8125	-5.8	8126	23.49	8127	-25.95
8128	Stage 9	8129	-6	8130	18.23	8131	-26.28
8132	Stage 9	8133	-6.2	8134	12.84	8135	-26.95
8136	Stage 9	8137	-6.4	8138	7.25	8139	-27.98
8140	Stage 9	8141	-6.6	8142	1.39	8143	-29.3
8144	Stage 9	8145	-6.8	8146	-4.75	8147	-30.7
8148	Stage 9	8149	-7	8150	-11.8	8151	-35.23
8152	Stage 9	8153	-7.2	8154	-20.49	8155	-43.44
8156	Stage 9	8157	-7.4	8158	-31.33	8159	-54.19
8160	Stage 9	8161	-7.5	8162	-37.53	8163	-62.03
8164	Stage 9	8165	-7.7	8166	-33.84	8167	18.45
8168	Stage 9	8169	-7.9	8170	-30.15	8171	18.44
8172	Stage 9	8173	-8.1	8174	-26.47	8175	18.42
8176	Stage 9	8177	-8.3	8178	-22.79	8179	18.4
8180	Stage 9	8181	-8.5	8182	-19.11	8183	18.36
8184	Stage 9	8185	-8.7	8186	-15.45	8187	18.32
8188	Stage 9	8189	-8.9	8190	-11.8	8191	18.28
8192	Stage 9	8193	-9.1	8194	-8.15	8195	18.25
8196	Stage 9	8197	-9.3	8198	-4.96	8199	15.92
8200	Stage 9	8201	-9.5	8202	-2.69	8203	11.38
8204	Stage 9	8205	-9.7	8206	-1.23	8207	7.26
8208	Stage 9	8209	-9.9	8210	-0.35	8211	4.43
8212	Stage 9	8213	-10.1	8214	0.28	8215	3.14
8216	Stage 9	8217	-10.3	8218	0.91	8219	3.14
8220	Stage 9	8221	-10.5	8222	1.54	8223	3.14
8224	Stage 9	8225	-10.7	8226	2.16	8227	3.14

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)	
8228	Stage 9	8229	-10.9		8230	2.79	8231	3.14
8232	Stage 9	8233	-11.1		8234	3.26	8235	2.37
8236	Stage 9	8237	-11.3		8238	3.21	8239	-0.28
8240	Stage 9	8241	-11.5		8242	2.08	8243	-5.65
8244	Stage 9	8245	-11.7		8246	-0.82	8247	-14.46
8248	Stage 9	8249	-11.9		8250	-6.2	8251	-26.93
8252	Stage 9	8253	-12		8254	-10.04	8255	-38.37
8256	Stage 9	8257	-12.2		8258	-2.87	8259	35.83
8260	Stage 9	8261	-12.4		8262	0.91	8263	18.9
8264	Stage 9	8265	-12.6		8266	1.48	8267	2.85
8268	Stage 9	8269	-12.8		8270	1.31	8271	-0.82
8272	Stage 9	8273	-13		8274	0.91	8275	-2.04
8276	Stage 9	8277	-13.2		8278	0.49	8279	-2.06
8280	Stage 9	8281	-13.4		8282	0.18	8283	-1.57
8284	Stage 9	8285	-13.6		8286	-0.02	8287	-0.99
8288	Stage 9	8289	-13.8		8290	-0.12	8291	-0.49
8292	Stage 9	8293	-14		8294	-0.15	8295	-0.15
8296	Stage 9	8297	-14.2		8298	-0.14	8299	0.04
8300	Stage 9	8301	-14.4		8302	-0.11	8303	0.13
8304	Stage 9	8305	-14.6		8306	-0.08	8307	0.14
8308	Stage 9	8309	-14.8		8310	-0.06	8311	0.13
8312	Stage 9	8313	-15		8314	-0.04	8315	0.09
8316	Stage 9	8317	-15.2		8318	-0.03	8319	0.06
8320	Stage 9	8321	-15.4		8322	-0.02	8323	0.04
8324	Stage 9	8325	-15.6		8326	-0.02	8327	0.02
8328	Stage 9	8329	-15.8		8330	-0.01	8331	0.01
8332	Stage 9	8333	-16		8334	-0.01	8335	0
8336	Stage 9	8337	-16.2		8338	-0.01	8339	0
8340	Stage 9	8341	-16.4		8342	-0.01	8343	0
8344	Stage 9	8345	-16.6		8346	-0.01	8347	0
8348	Stage 9	8349	-16.8		8350	-0.01	8351	0
8352	Stage 9	8353	-17		8354	-0.01	8355	0
8356	Stage 9	8357	-17.2		8358	-0.01	8359	0
8360	Stage 9	8361	-17.4		8362	-0.01	8363	0
8364	Stage 9	8365	-17.6		8366	-0.01	8367	0
8368	Stage 9	8369	-17.8		8370	-0.01	8371	0
8372	Stage 9	8373	-18		8374	-0.01	8375	0
8376	Stage 9	8377	-18.2		8378	-0.01	8379	0
8380	Stage 9	8381	-18.4		8382	-0.01	8383	0
8384	Stage 9	8385	-18.6		8386	0	8387	0
8388	Stage 9	8389	-18.8		8390	0	8391	0
8392	Stage 9	8393	-19		8394	-0.01	8395	0
8396	Stage 9	8397	-19.2		8398	-0.01	8399	0
8400	Stage 9	8401	-19.4		8402	-0.01	8403	-0.01
8404	Stage 9	8405	-19.6		8406	-0.01	8407	-0.01
8408	Stage 9	8409	-19.8		8410	-0.01	8411	-0.01
8412	Stage 9	8413	-20		8414	-0.01	8415	0
8416	Stage 9	8417	-20.2		8418	-0.01	8419	0.01
8420	Stage 9	8421	-20.4		8422	-0.01	8423	0.01
8424	Stage 9	8425	-20.6		8426	0	8427	0.01
8428	Stage 9	8429	-20.8		8430	0	8431	0.01
8432	Stage 9	8433	-21		8434	0	8435	0.01
8436	Stage 9	8437	-21.2		8438	0	8439	0
8440	Stage 9	8441	-21.4		8442	0	8443	0
8444	Stage 9	8445	-21.6		8446	0	8447	0
8448	Stage 9	8449	-21.8		8450	0	8451	0
8452	Stage 9	8453	-22		8454	0	8455	0
8456	Stage 9	8457	-22.2		8458	0	8459	0
8460	Stage 9	8461	-22.4		8462	0	8463	0
8464	Stage 9	8465	-22.6		8466	0	8467	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)				
8468	Stage 9	8469	-22.8		8470	0	8471	0			
8472	Stage 9	8473	-23		8474	0	8475	0			
8476	Stage 9	8477	-23.2		8478	0	8479	0			
8480	Stage 9	8481	-23.4		8482	0	8483	0			
8484	Stage 9	8485	-23.6		8486	0	8487	0			
8488	Stage 9	8489	-23.8		8490	0	8491	0			
8492	Stage 9	8493	-24		8494	0	8495	0			

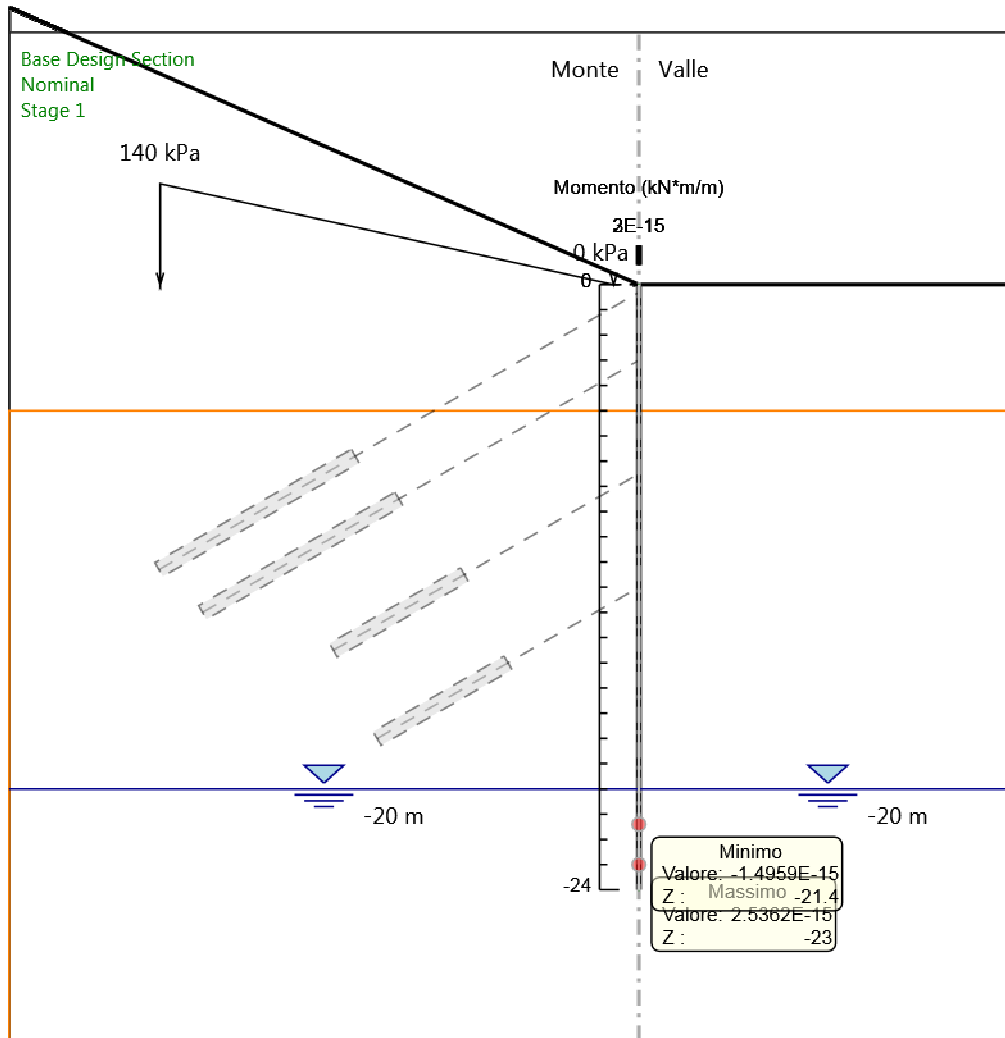
**Tabella Risultati Paratia Nominal - Stage: Stage 10**

139	Design Assumption: Nominal 140		Risultati Paratia		141	Muro: LEFT	142
	143	Stage	144	Z (m)	145	Momento (kN*m/m) 146	Taglio (kN/m)
8496	Stage 10	8497	0	8498	0	8499	-4.86
8500	Stage 10	8501	-0.2	8502	-0.97	8503	-4.86
8504	Stage 10	8505	-0.3	8506	-2.57	8507	-15.98
8508	Stage 10	8509	-0.5	8510	13.91	8511	82.42
8512	Stage 10	8513	-0.7	8514	25.63	8515	58.6
8516	Stage 10	8517	-0.9	8518	31.92	8519	31.43
8520	Stage 10	8521	-1.1	8522	33.98	8523	10.31
8524	Stage 10	8525	-1.3	8526	33.52	8527	-2.3
8528	Stage 10	8529	-1.5	8530	32.01	8531	-7.54
8532	Stage 10	8533	-1.7	8534	29.36	8535	-13.26
8536	Stage 10	8537	-1.9	8538	25.49	8539	-19.37
8540	Stage 10	8541	-2.1	8542	20.4	8543	-25.43
8544	Stage 10	8545	-2.3	8546	14.38	8547	-30.09
8548	Stage 10	8549	-2.5	8550	7.45	8551	-34.68
8552	Stage 10	8553	-2.7	8554	-0.52	8555	-39.84
8556	Stage 10	8557	-2.9	8558	-9.63	8559	-45.54
8560	Stage 10	8561	-3	8562	-14.65	8563	-50.21
8564	Stage 10	8565	-3.2	8566	-1.19	8567	67.31
8568	Stage 10	8569	-3.4	8570	10.85	8571	60.2
8572	Stage 10	8573	-3.6	8574	21.37	8575	52.6
8576	Stage 10	8577	-3.8	8578	30.27	8579	44.5
8580	Stage 10	8581	-4	8582	37.45	8583	35.91
8584	Stage 10	8585	-4.2	8586	42.82	8587	26.84
8588	Stage 10	8589	-4.4	8590	46.28	8591	17.28
8592	Stage 10	8593	-4.6	8594	47.73	8595	7.26
8596	Stage 10	8597	-4.8	8598	47.08	8599	-3.24
8600	Stage 10	8601	-5	8602	44.21	8603	-14.33
8604	Stage 10	8605	-5.2	8606	39.04	8607	-25.89
8608	Stage 10	8609	-5.4	8610	33.86	8611	-25.89
8612	Stage 10	8613	-5.6	8614	28.68	8615	-25.9
8616	Stage 10	8617	-5.8	8618	23.49	8619	-25.95
8620	Stage 10	8621	-6	8622	18.23	8623	-26.28
8624	Stage 10	8625	-6.2	8626	12.84	8627	-26.95
8628	Stage 10	8629	-6.4	8630	7.25	8631	-27.98
8632	Stage 10	8633	-6.6	8634	1.39	8635	-29.3
8636	Stage 10	8637	-6.8	8638	-4.75	8639	-30.7
8640	Stage 10	8641	-7	8642	-11.8	8643	-35.23
8644	Stage 10	8645	-7.2	8646	-20.49	8647	-43.44
8648	Stage 10	8649	-7.4	8650	-31.33	8651	-54.19
8652	Stage 10	8653	-7.5	8654	-37.53	8655	-62.03
8656	Stage 10	8657	-7.7	8658	-33.84	8659	18.45
8660	Stage 10	8661	-7.9	8662	-30.15	8663	18.44
8664	Stage 10	8665	-8.1	8666	-26.47	8667	18.42
8668	Stage 10	8669	-8.3	8670	-22.79	8671	18.39
8672	Stage 10	8673	-8.5	8674	-19.12	8675	18.36
8676	Stage 10	8677	-8.7	8678	-15.45	8679	18.31
8680	Stage 10	8681	-8.9	8682	-11.8	8683	18.27
8684	Stage 10	8685	-9.1	8686	-8.15	8687	18.26
8688	Stage 10	8689	-9.3	8690	-4.96	8691	15.94
8692	Stage 10	8693	-9.5	8694	-2.68	8695	11.42
8696	Stage 10	8697	-9.7	8698	-1.21	8699	7.33
8700	Stage 10	8701	-9.9	8702	-0.3	8703	4.53
8704	Stage 10	8705	-10.1	8706	0.35	8707	3.26
8708	Stage 10	8709	-10.3	8710	1	8711	3.26
8712	Stage 10	8713	-10.5	8714	1.64	8715	3.21
8716	Stage 10	8717	-10.7	8718	2.26	8719	3.09

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)	
8720	Stage 10	8721	-10.9		8722	2.83	8723	2.85
8724	Stage 10	8725	-11.1		8726	3.17	8727	1.69
8728	Stage 10	8729	-11.3		8730	2.87	8731	-1.5
8732	Stage 10	8733	-11.5		8734	1.36	8735	-7.53
8736	Stage 10	8737	-11.7		8738	-2.04	8739	-16.98
8740	Stage 10	8741	-11.9		8742	-8	8743	-29.81
8744	Stage 10	8745	-12		8746	-12.09	8747	-40.96
8748	Stage 10	8749	-12.2		8750	-5.29	8751	33.99
8752	Stage 10	8753	-12.4		8754	-1.33	8755	19.83
8756	Stage 10	8757	-12.6		8758	0.5	8759	9.16
8760	Stage 10	8761	-12.8		8762	1.02	8763	2.59
8764	Stage 10	8765	-13		8766	1.03	8767	0.03
8768	Stage 10	8769	-13.2		8770	1.04	8771	0.03
8772	Stage 10	8773	-13.4		8774	1.04	8775	0.03
8776	Stage 10	8777	-13.6		8778	1.05	8779	0.03
8780	Stage 10	8781	-13.8		8782	1.06	8783	0.03
8784	Stage 10	8785	-14		8786	1.06	8787	0.03
8788	Stage 10	8789	-14.2		8790	1.07	8791	0.03
8792	Stage 10	8793	-14.4		8794	1.08	8795	0.03
8796	Stage 10	8797	-14.6		8798	1.08	8799	0.03
8800	Stage 10	8801	-14.8		8802	1.09	8803	0.03
8804	Stage 10	8805	-15		8806	1.1	8807	0.03
8808	Stage 10	8809	-15.2		8810	1.1	8811	0.03
8812	Stage 10	8813	-15.4		8814	1.11	8815	0.03
8816	Stage 10	8817	-15.6		8818	1.12	8819	0.03
8820	Stage 10	8821	-15.8		8822	1.12	8823	0.03
8824	Stage 10	8825	-16		8826	1.13	8827	0.03
8828	Stage 10	8829	-16.2		8830	1.14	8831	0.03
8832	Stage 10	8833	-16.4		8834	1.14	8835	0.03
8836	Stage 10	8837	-16.6		8838	1.15	8839	0.03
8840	Stage 10	8841	-16.8		8842	1.16	8843	0.03
8844	Stage 10	8845	-17		8846	0.48	8847	-3.38
8848	Stage 10	8849	-17.2		8850	-1.73	8851	-11.06
8852	Stage 10	8853	-17.4		8854	-2.57	8855	-4.19
8856	Stage 10	8857	-17.6		8858	-2.41	8859	0.81
8860	Stage 10	8861	-17.8		8862	-1.82	8863	2.93
8864	Stage 10	8865	-18		8866	-1.18	8867	3.23
8868	Stage 10	8869	-18.2		8870	-0.65	8871	2.65
8872	Stage 10	8873	-18.4		8874	-0.29	8875	1.8
8876	Stage 10	8877	-18.6		8878	-0.08	8879	1.04
8880	Stage 10	8881	-18.8		8882	0.02	8883	0.47
8884	Stage 10	8885	-19		8886	0.04	8887	0.13
8888	Stage 10	8889	-19.2		8890	0.03	8891	-0.05
8892	Stage 10	8893	-19.4		8894	0.01	8895	-0.12
8896	Stage 10	8897	-19.6		8898	-0.02	8899	-0.13
8900	Stage 10	8901	-19.8		8902	-0.04	8903	-0.1
8904	Stage 10	8905	-20		8906	-0.05	8907	-0.05
8908	Stage 10	8909	-20.2		8910	-0.05	8911	0.03
8912	Stage 10	8913	-20.4		8914	-0.03	8915	0.06
8916	Stage 10	8917	-20.6		8918	-0.02	8919	0.06
8920	Stage 10	8921	-20.8		8922	-0.01	8923	0.04
8924	Stage 10	8925	-21		8926	-0.01	8927	0.03
8928	Stage 10	8929	-21.2		8930	-0.01	8931	0.02
8932	Stage 10	8933	-21.4		8934	0	8935	0.01
8936	Stage 10	8937	-21.6		8938	0	8939	0
8940	Stage 10	8941	-21.8		8942	0	8943	0
8944	Stage 10	8945	-22		8946	0	8947	0
8948	Stage 10	8949	-22.2		8950	0	8951	0
8952	Stage 10	8953	-22.4		8954	0	8955	0
8956	Stage 10	8957	-22.6		8958	0	8959	0

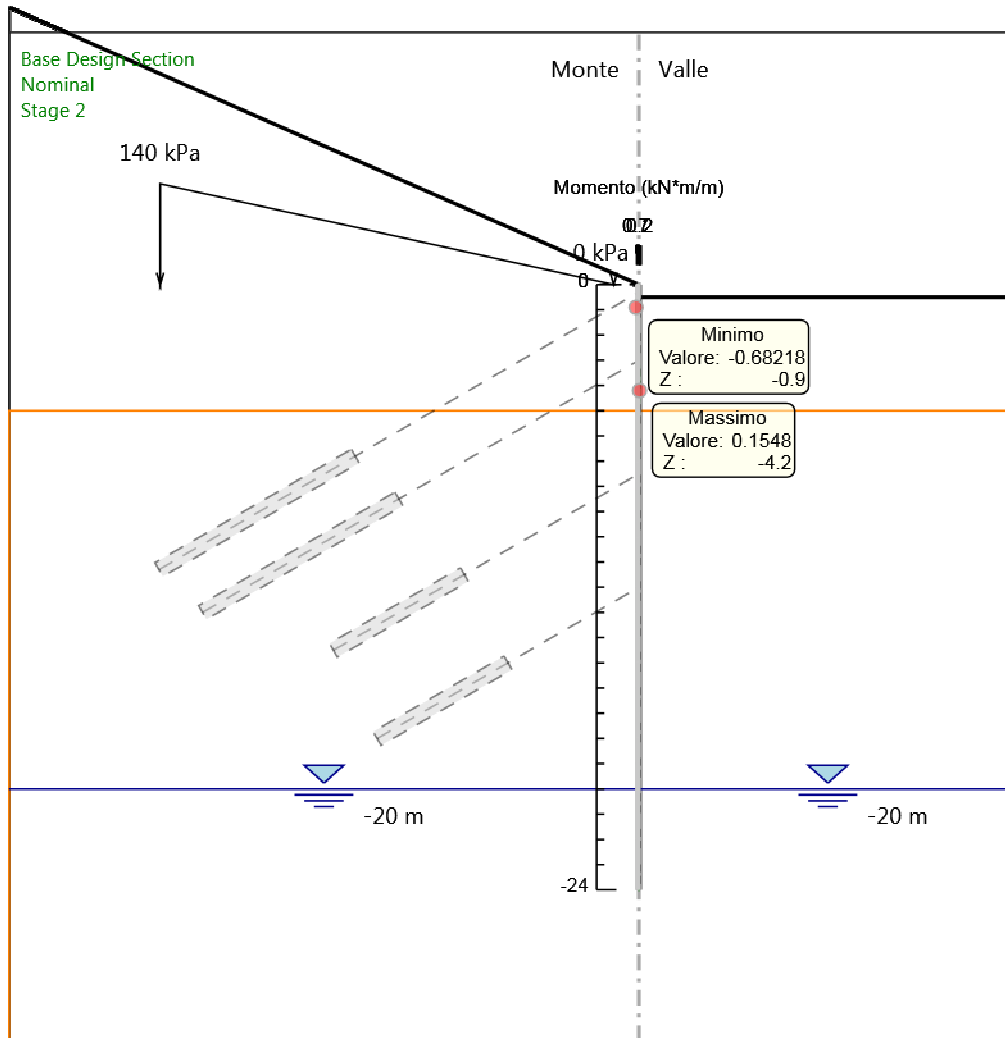
<b>139</b>		<b>Design Assumption: Nominal 140</b>		<b>Risultati Paratia 141</b>		<b>Muro: LEFT</b>		<b>142</b>	
<b>143</b>	<b>Stage</b>	<b>144</b>	<b>Z (m)</b>	<b>145</b>	<b>Momento (kN*m/m) 146</b>	<b>Taglio (kN/m)</b>			
8960	Stage 10	8961	-22.8		8962	0	8963	0	
8964	Stage 10	8965	-23		8966	0	8967	0	
8968	Stage 10	8969	-23.2		8970	0	8971	0	
8972	Stage 10	8973	-23.4		8974	0	8975	0	
8976	Stage 10	8977	-23.6		8978	0	8979	0	
8980	Stage 10	8981	-23.8		8982	0	8983	0	
8984	Stage 10	8985	-24		8986	0	8987	0	

**Grafico Momento Nominal - Stage: Stage 1**



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

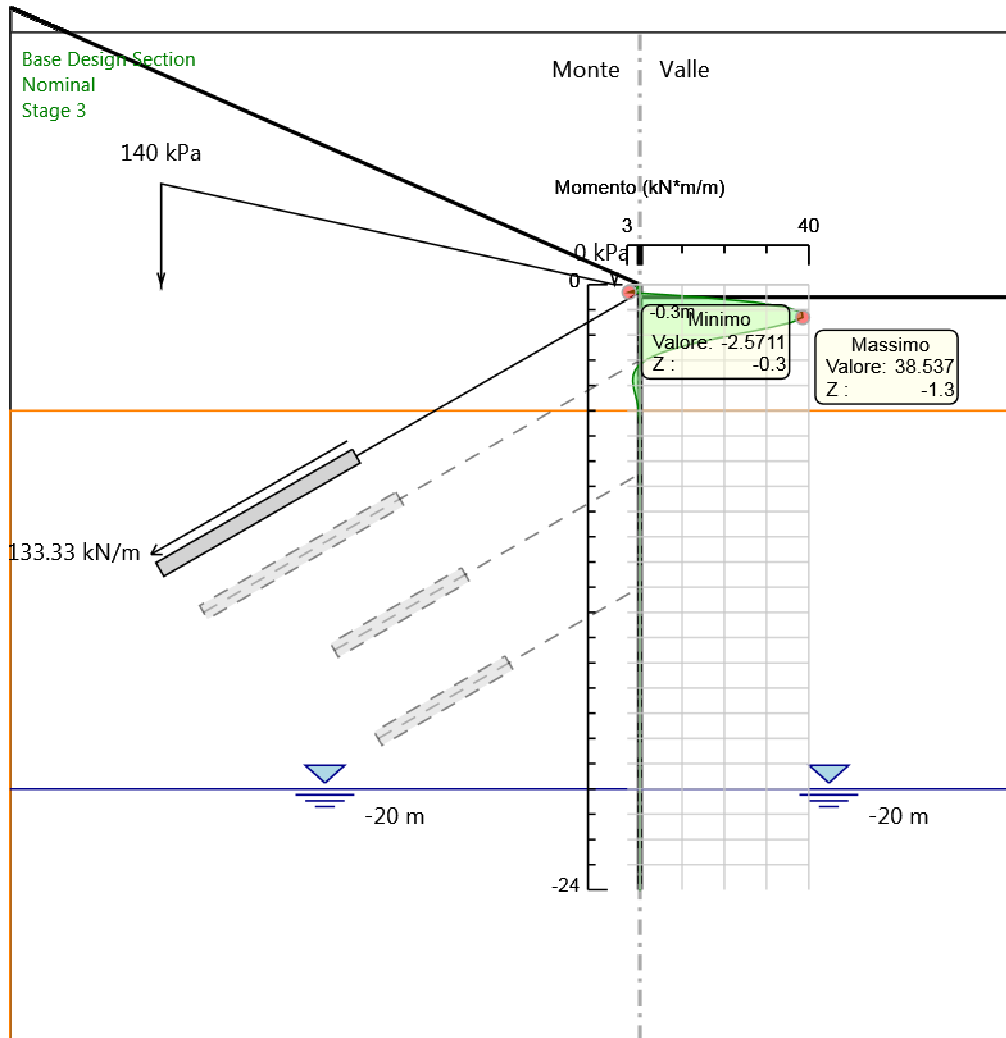
**Grafico Momento Nominal - Stage: Stage 2**



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

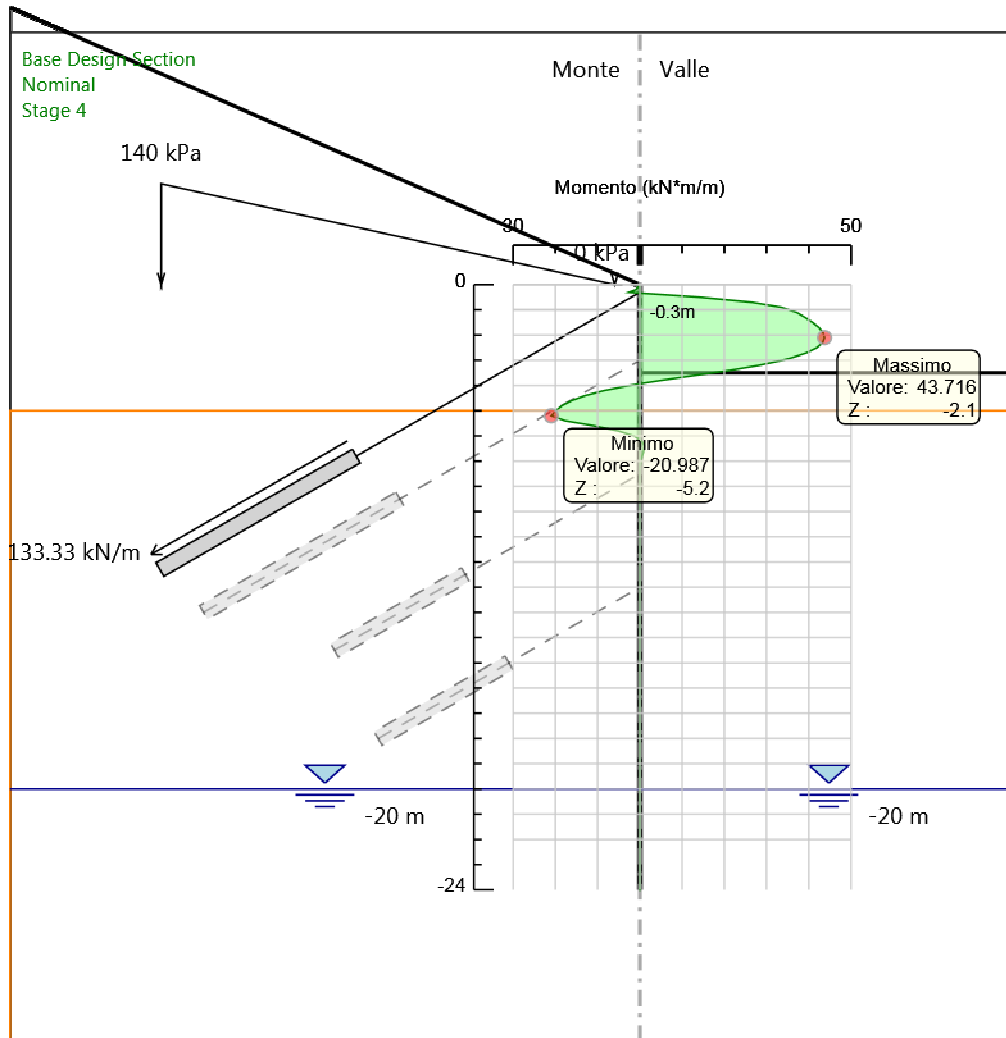


**Grafico Momento Nominal - Stage: Stage 3**



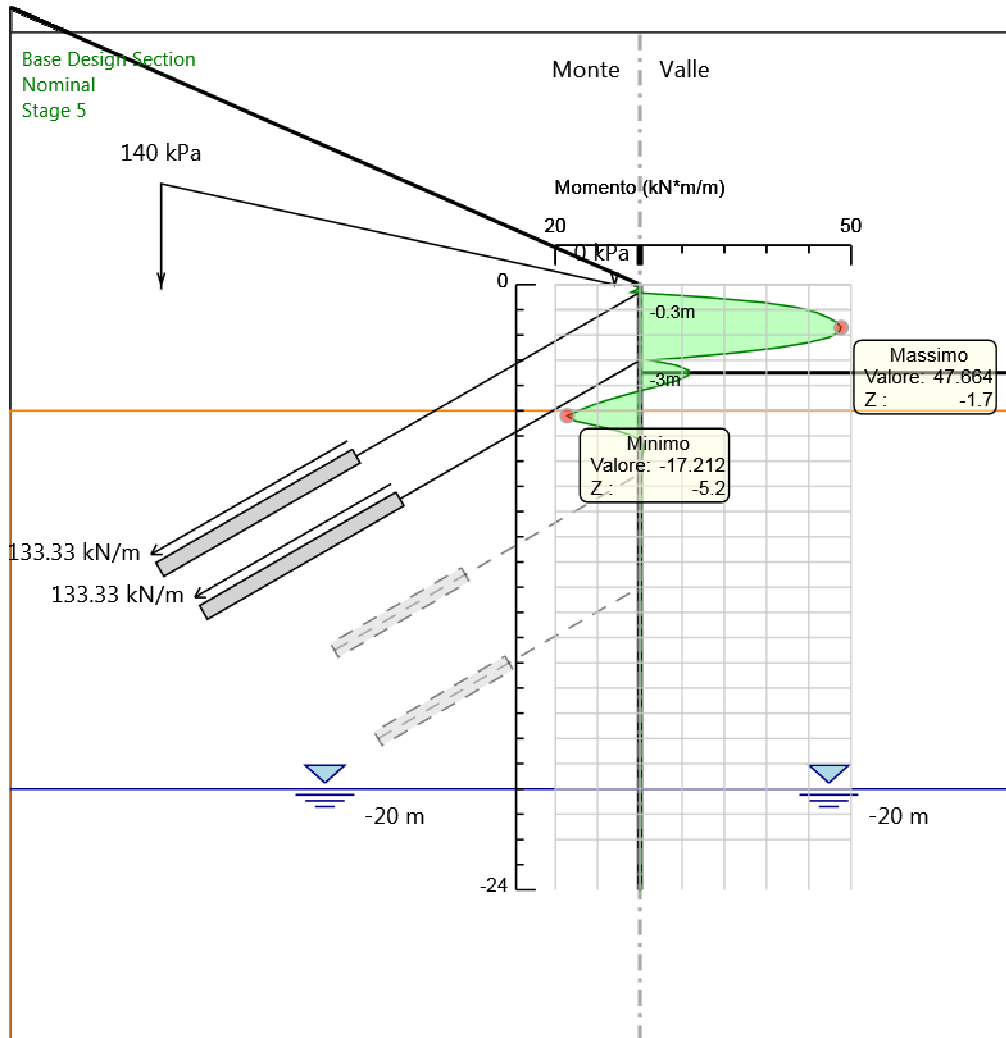
- 51.
- 52. Design Assumption: Nominal
- 53. Stage: Stage 3
- 54. Momento

**Grafico Momento Nominal - Stage: Stage 4**



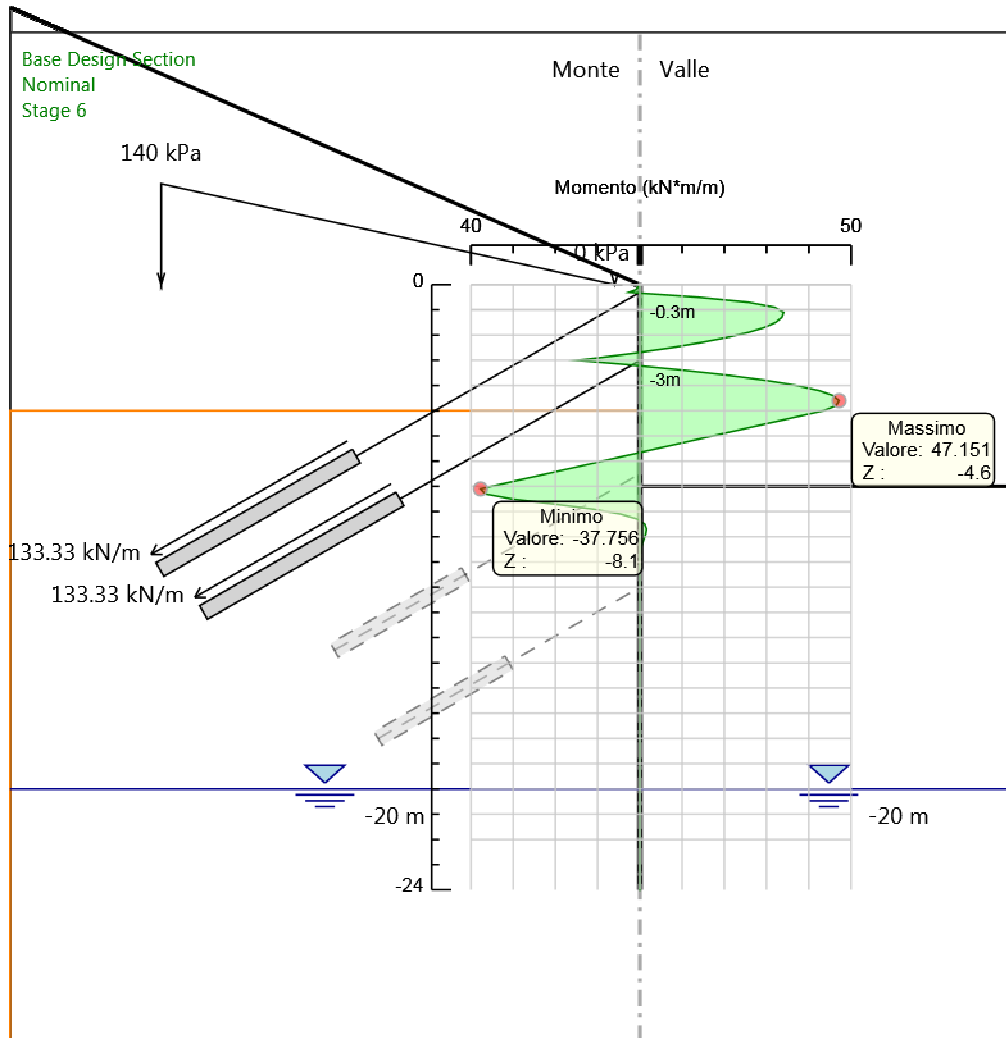
- 55.
- 56. Design Assumption: Nominal
- 57. Stage: Stage 4
- 58. Momento

**Grafico Momento Nominal - Stage: Stage 5**



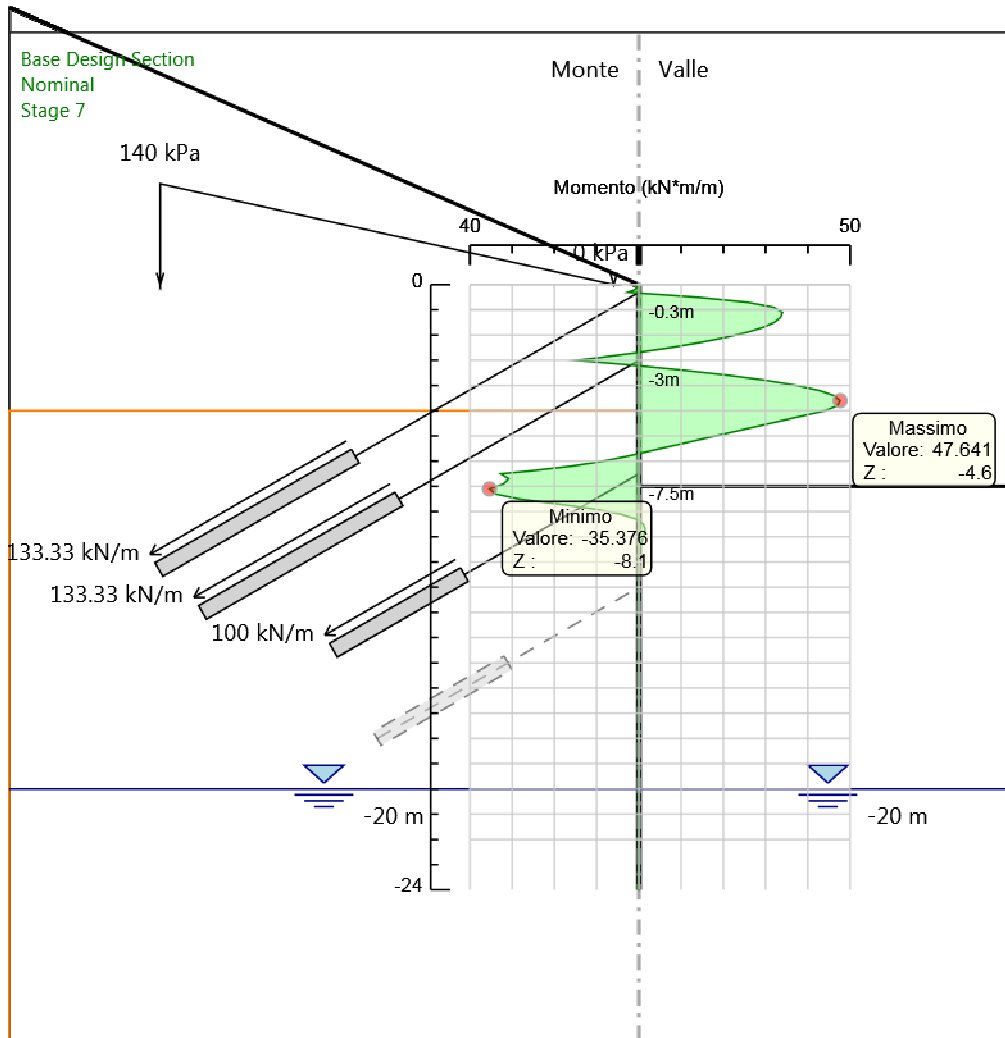
- 59.
- 60. Design Assumption: Nominal
- 61. Stage: Stage 5
- 62. Momento

**Grafico Momento Nominal - Stage: Stage 6**



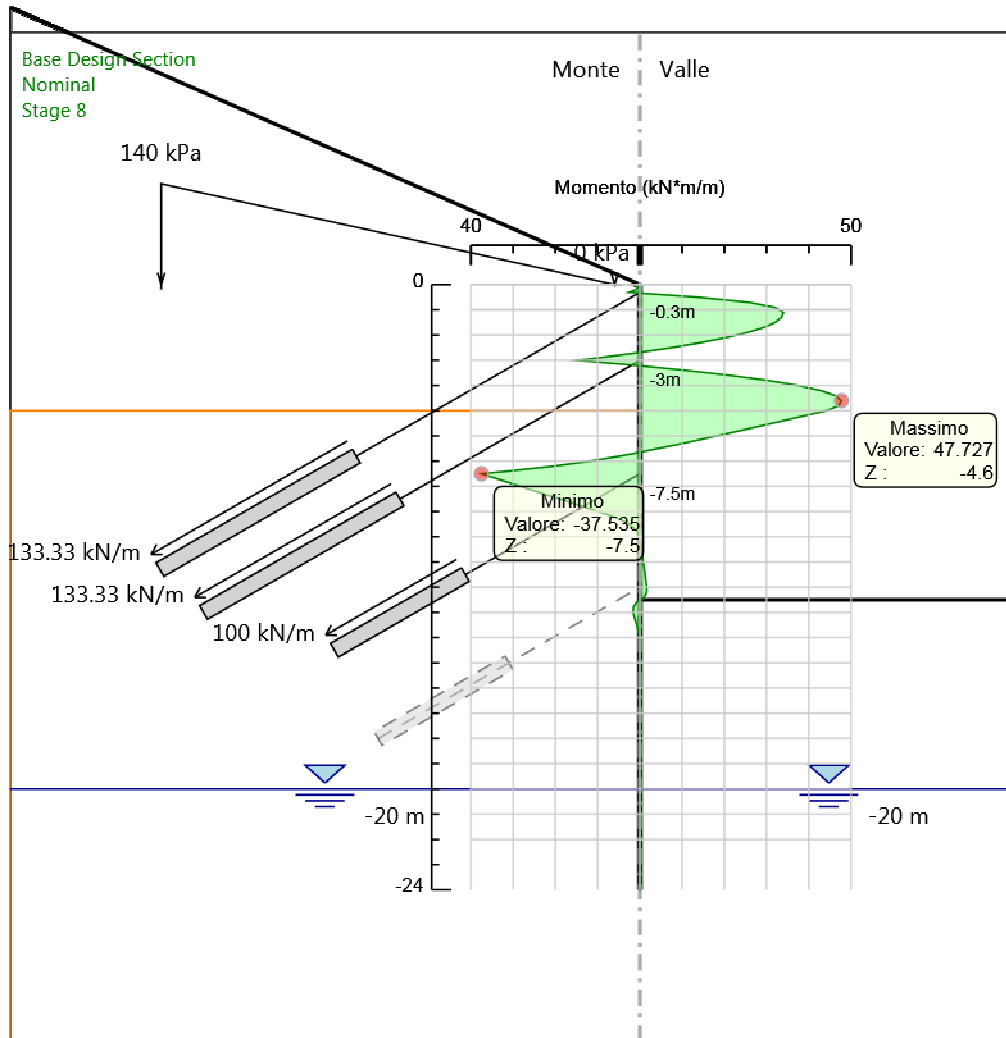
- 63.
- 64. Design Assumption: Nominal
- 65. Stage: Stage 6
- 66. Momento

**Grafico Momento Nominal - Stage: Stage 7**



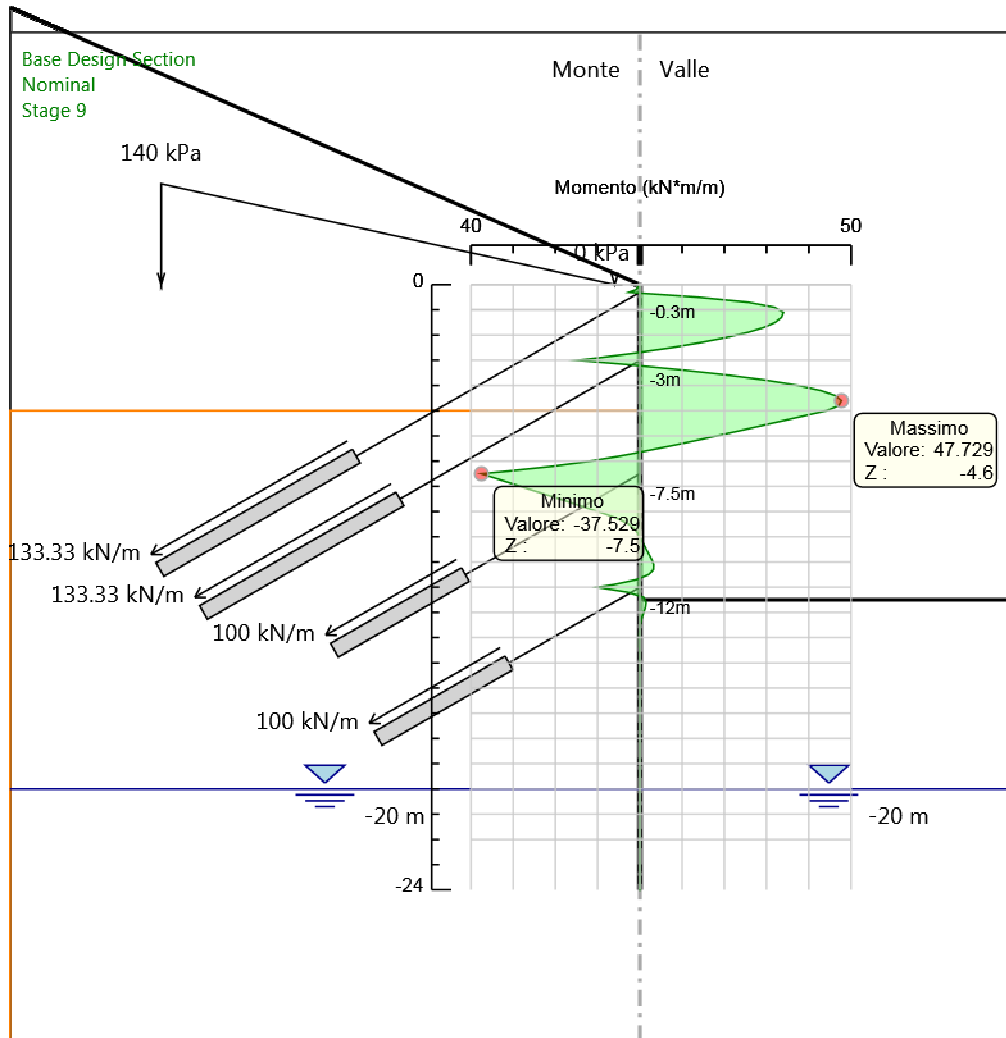
- 67.
- 68. Design Assumption: Nominal
- 69. Stage: Stage 7
- 70. Momento

**Grafico Momento Nominal - Stage: Stage 8**



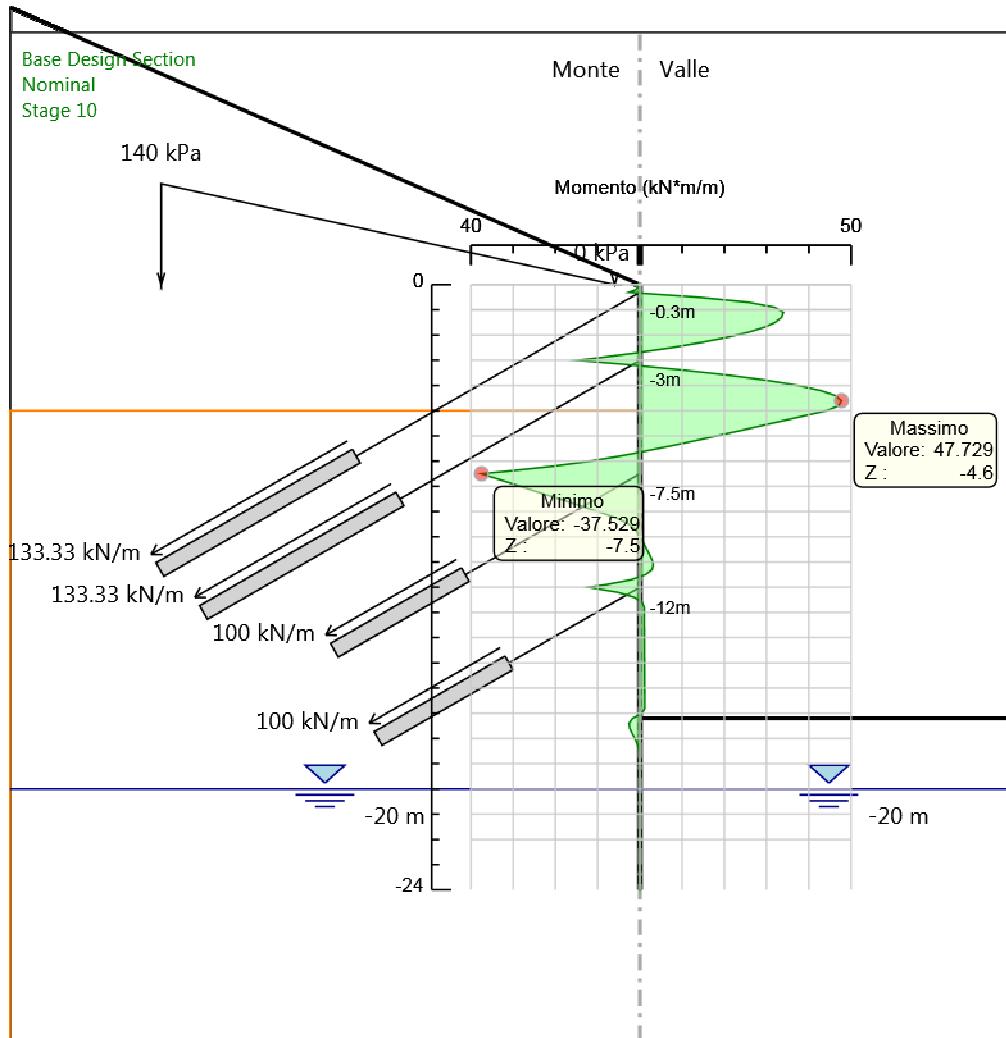
- 71.
- 72. Design Assumption: Nominal
- 73. Stage: Stage 8
- 74. Momento

**Grafico Momento Nominal - Stage: Stage 9**



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

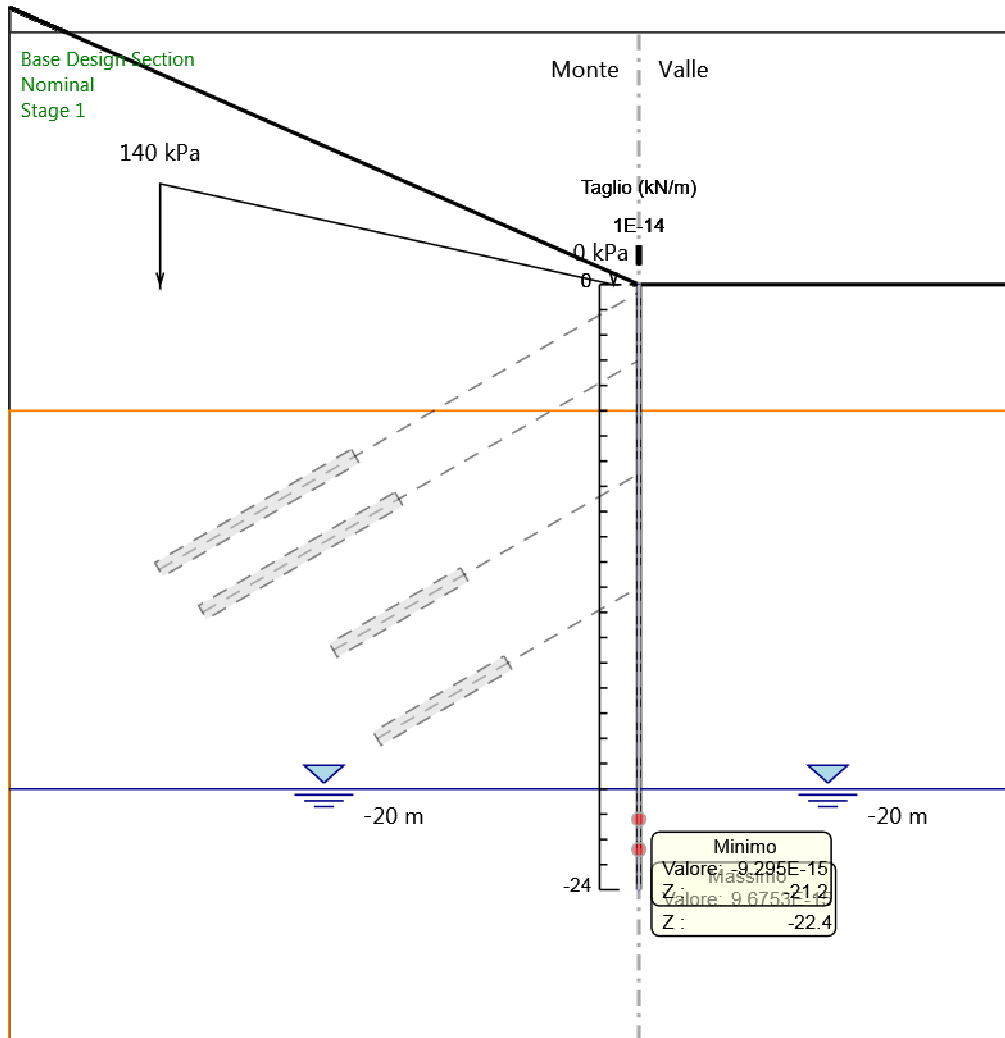
**Grafico Momento Nominal - Stage: Stage 10**



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

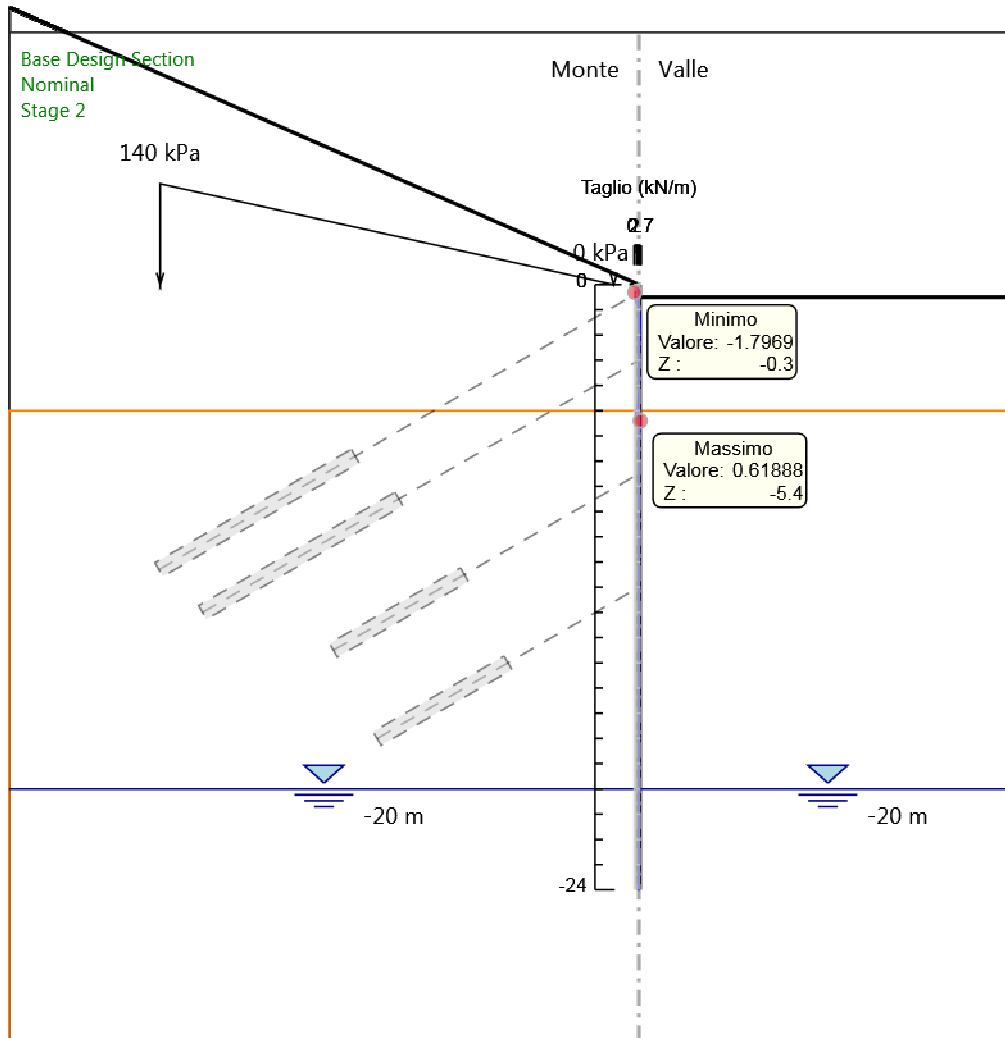


**Grafico Taglio Nominal - Stage: Stage 1**



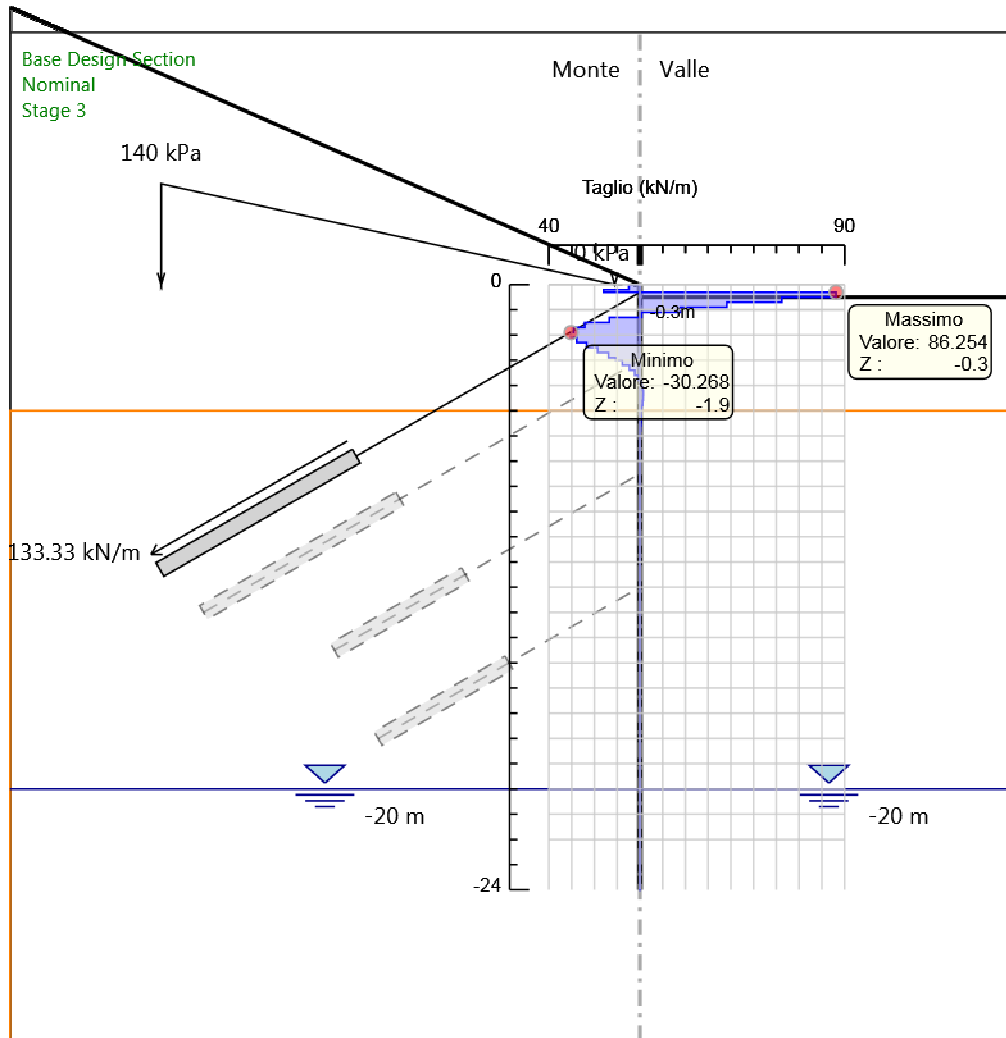
- 83.
- 84. Design Assumption: Nominal
- 85. Stage: Stage 1
- 86. Taglio

**Grafico Taglio Nominal - Stage: Stage 2**



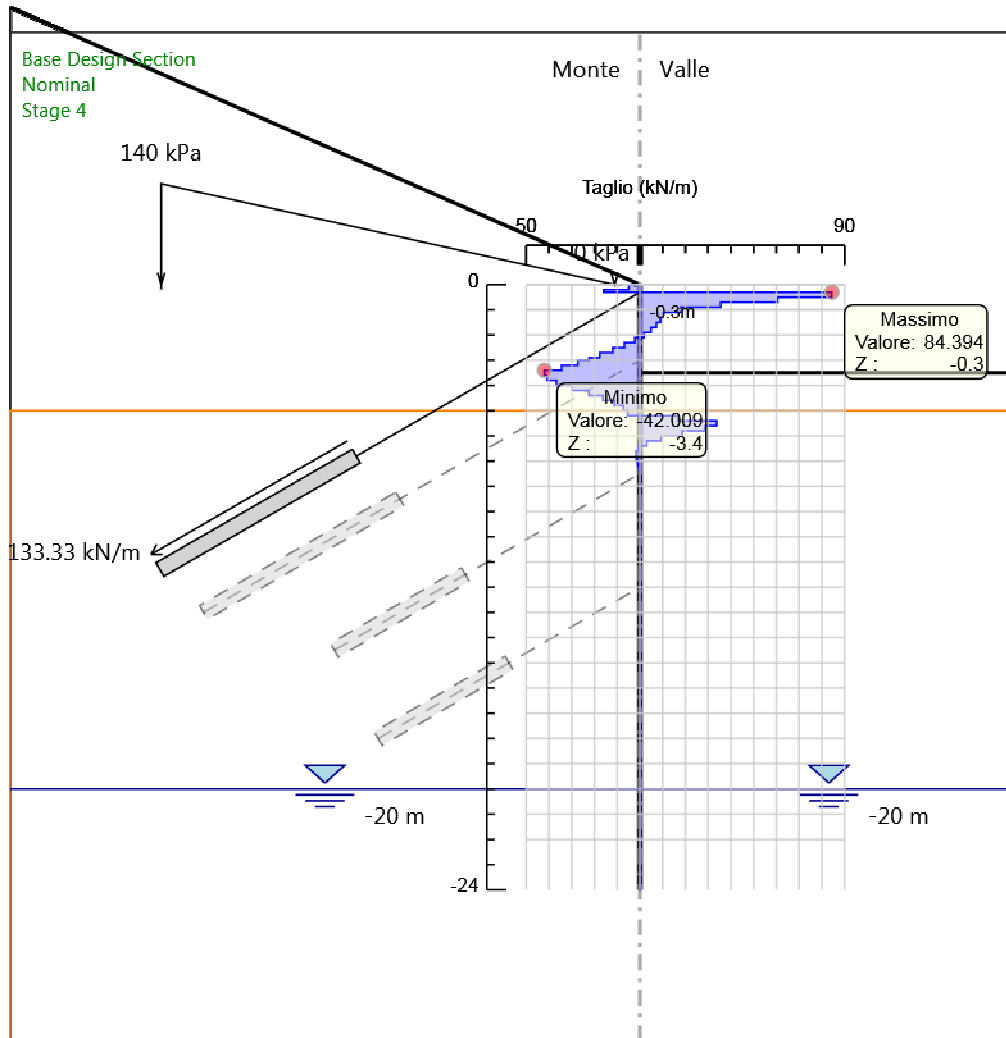
- 87.
- 88. Design Assumption: Nominal
- 89. Stage: Stage 2
- 90. Taglio

**Grafico Taglio Nominal - Stage: Stage 3**



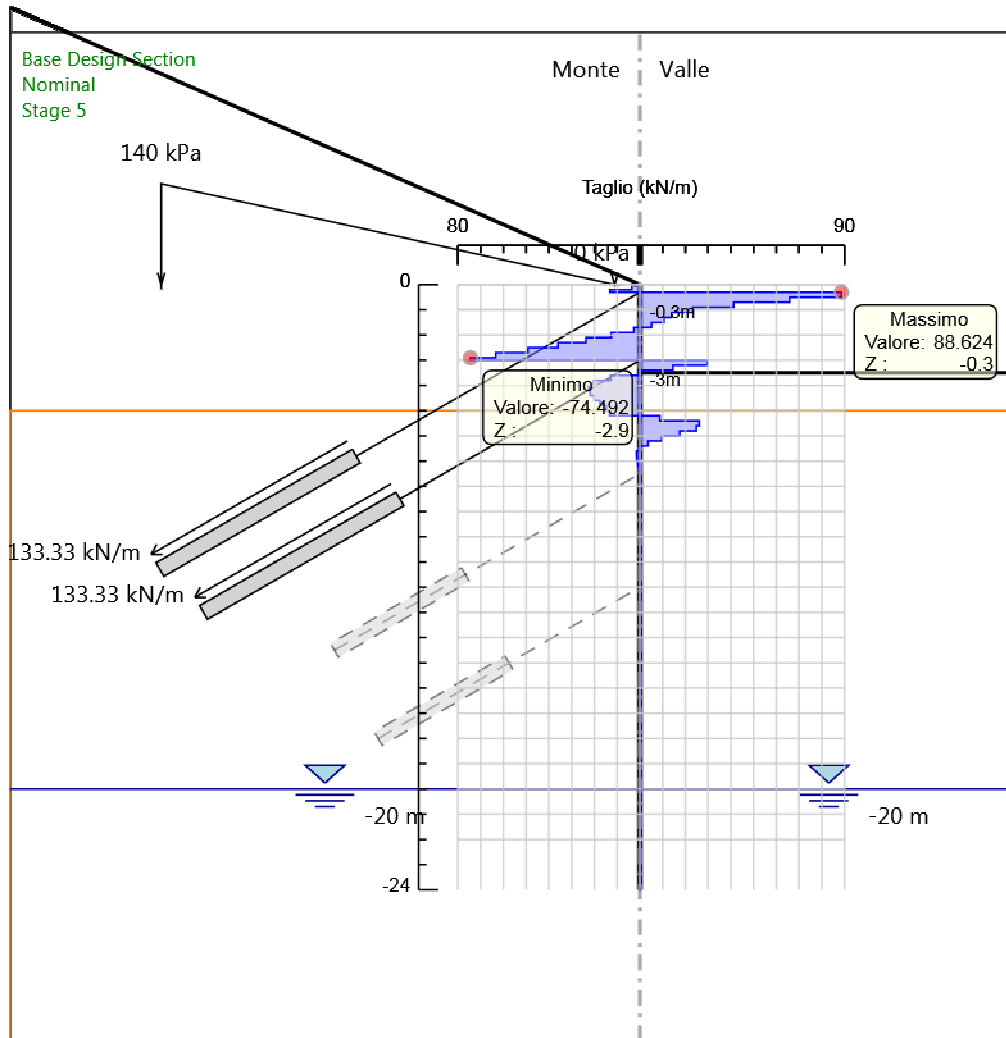
- 91.
- 92. Design Assumption: Nominal
- 93. Stage: Stage 3
- 94. Taglio

**Grafico Taglio Nominal - Stage: Stage 4**



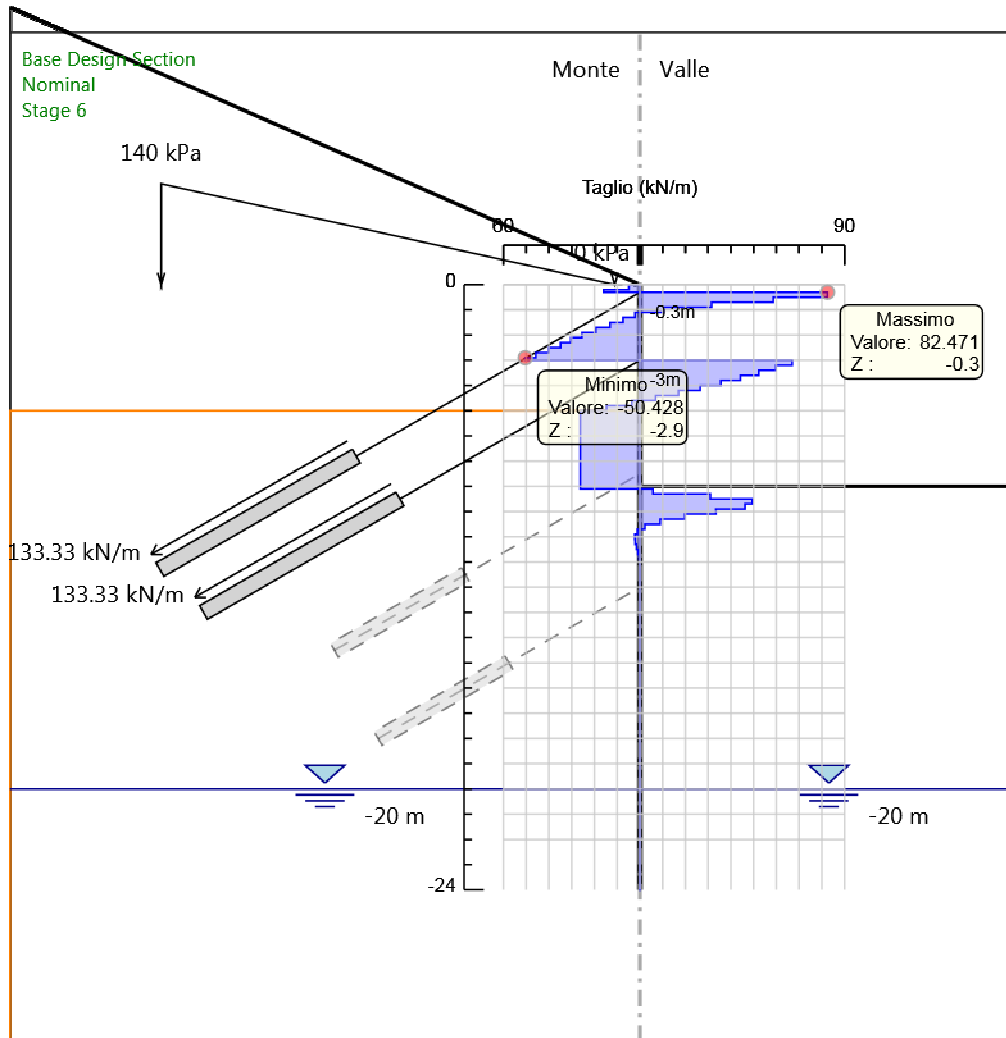
- 95.
- 96. Design Assumption: Nominal
- 97. Stage: Stage 4
- 98. Taglio

**Grafico Taglio Nominal - Stage: Stage 5**



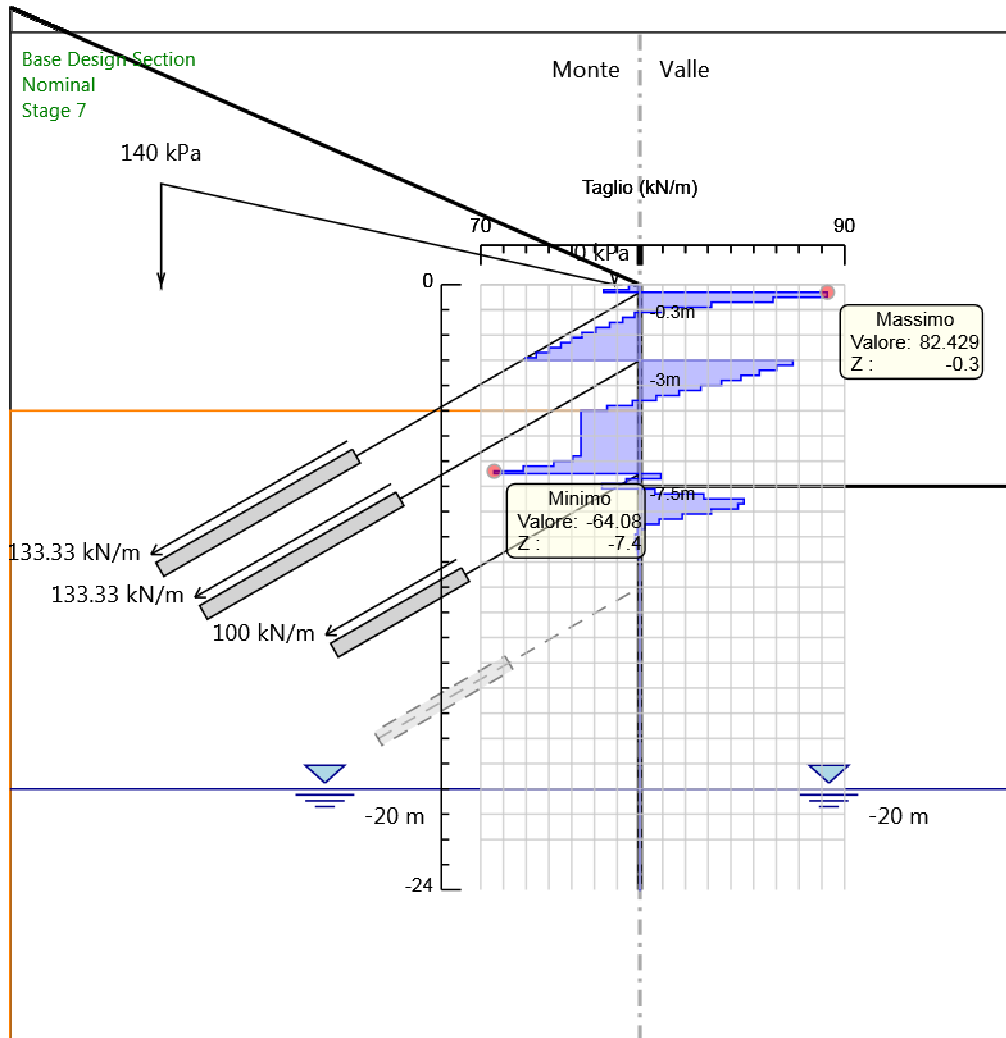
- 99.
- 100. Design Assumption: Nominal
- 101. Stage: Stage 5
- 102. Taglio

**Grafico Taglio Nominal - Stage: Stage 6**



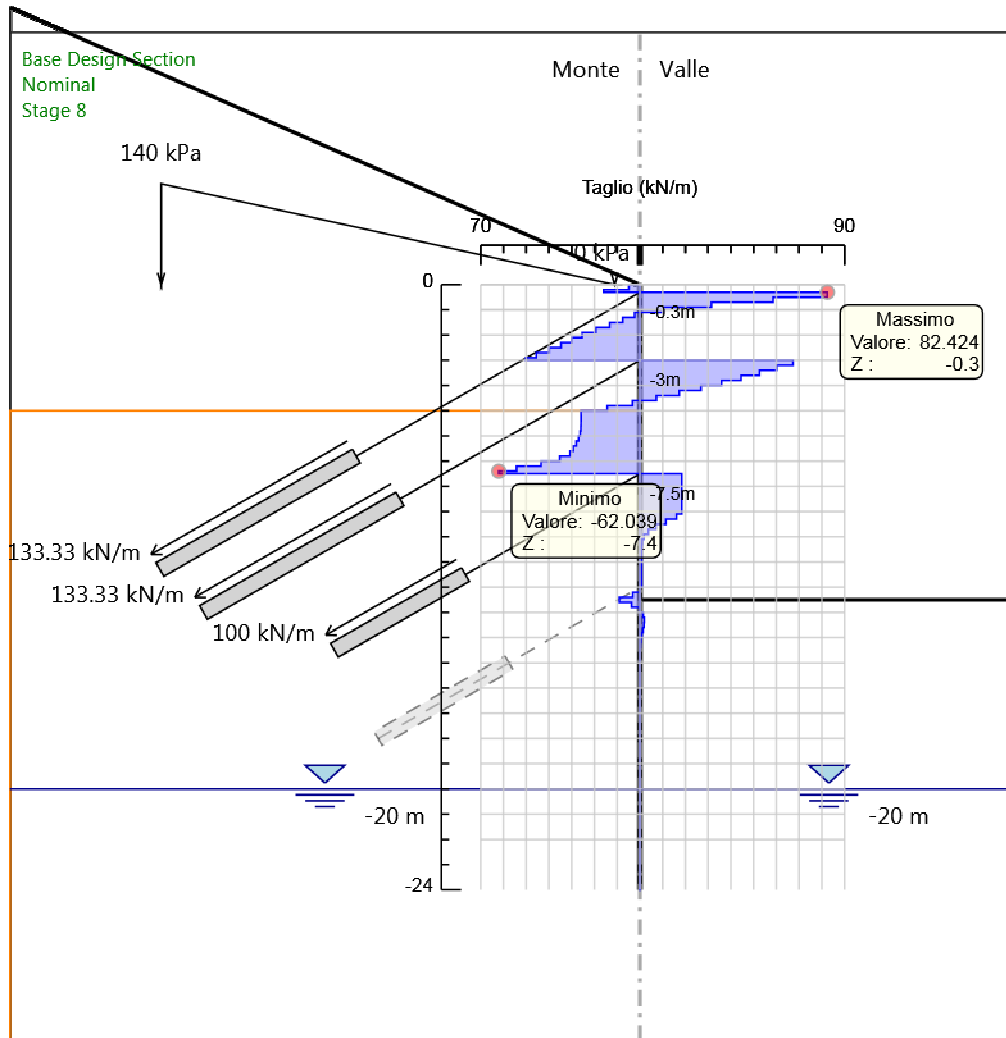
- 103.
- 104. Design Assumption: Nominal
- 105. Stage: Stage 6
- 106. Taglio

**Grafico Taglio Nominal - Stage: Stage 7**



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

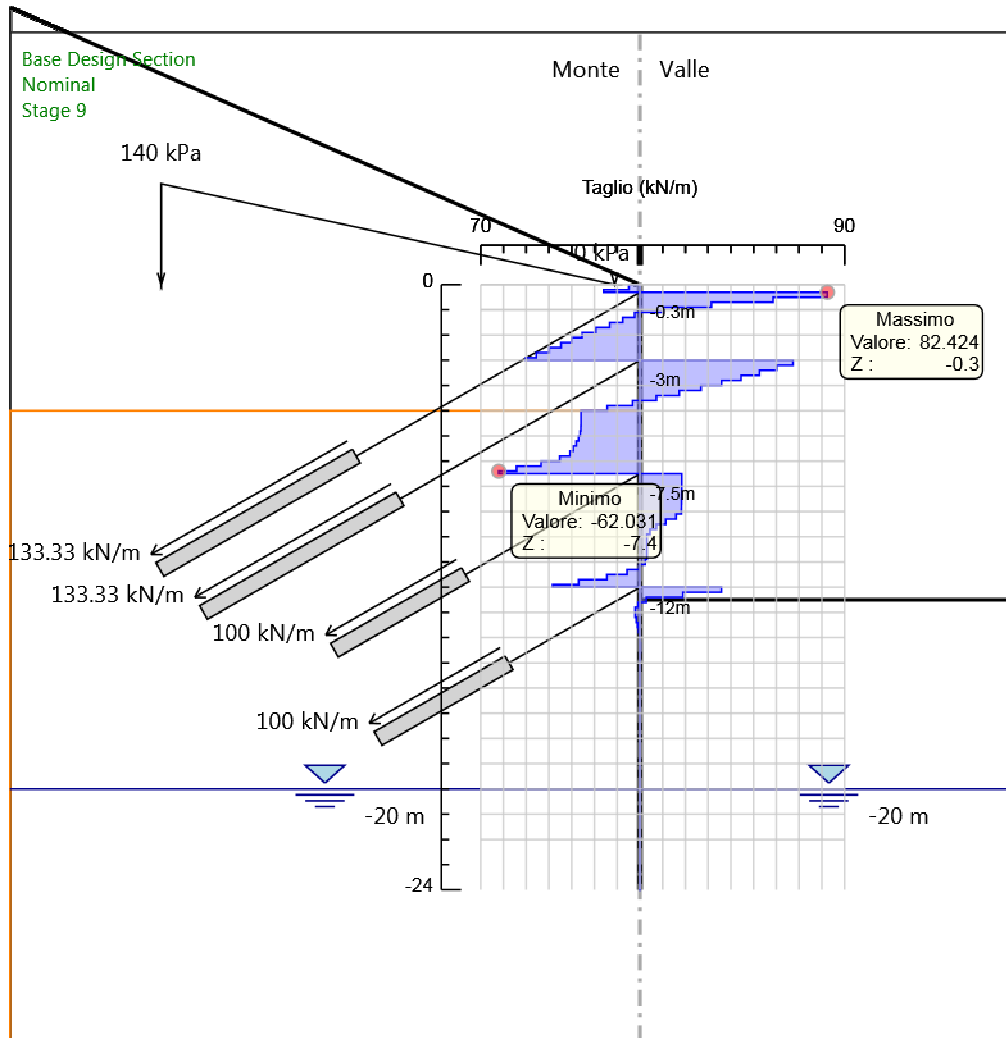
**Grafico Taglio Nominal - Stage: Stage 8**



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

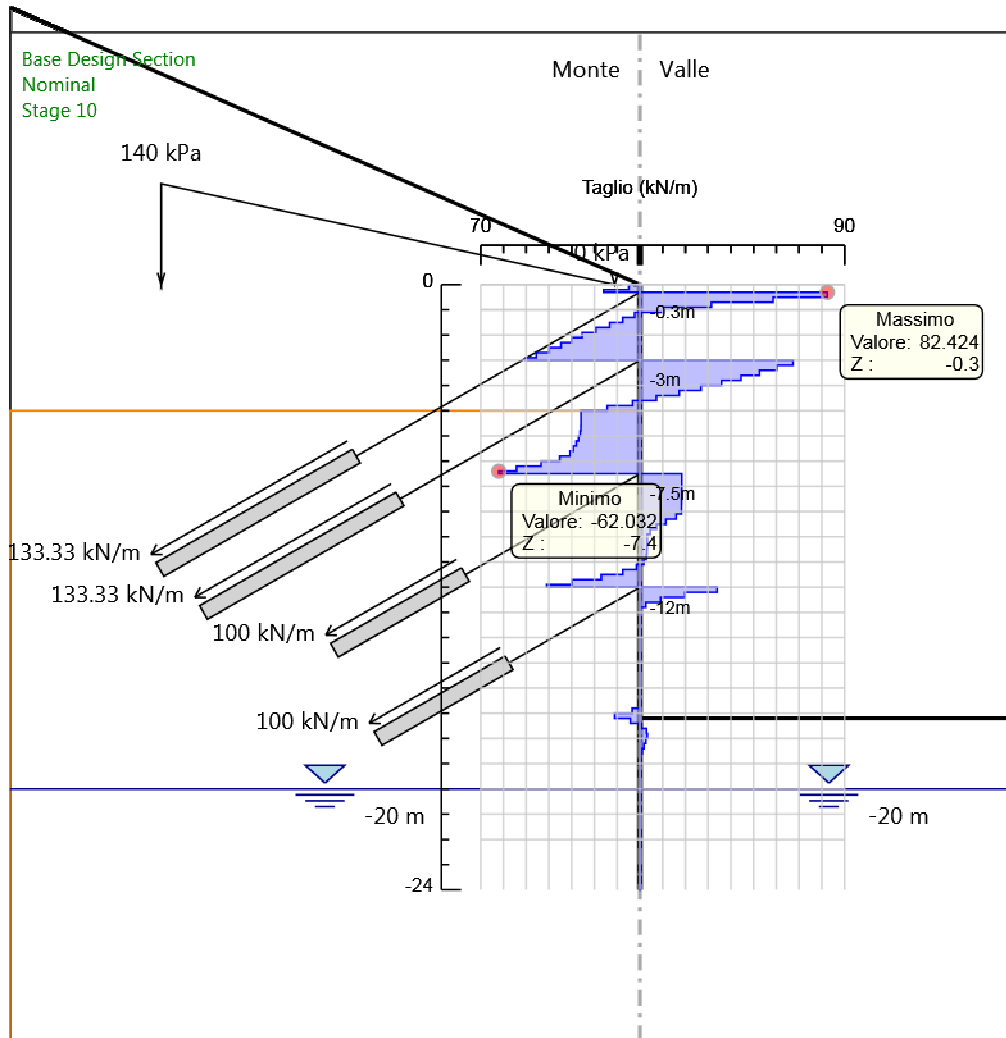


**Grafico Taglio Nominal - Stage: Stage 9**



- 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

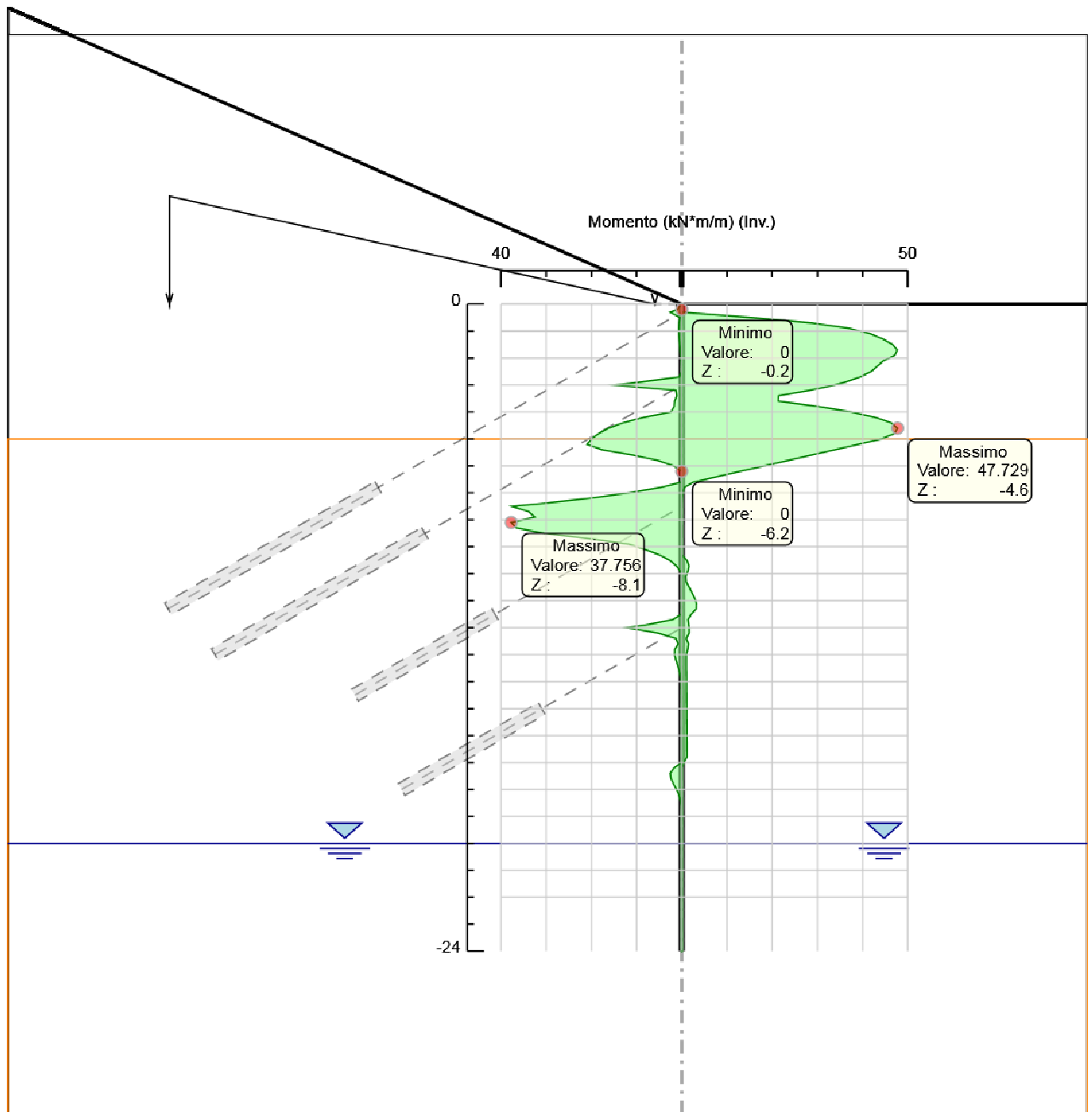
Tabella Inviluppi Momento Nominal WallElement

147	Design Assumption: Nominal 148		Inviluppi: Momento 149		Muro: WallElement	
150	Z (m)	151	Lato sinistro (kN*m/m) 152		Lato destro (kN*m/m)	
8988	0		8989	0	8990	0
8991	-0.2		8992	0.973	8993	0
8994	-0.3		8995	2.571	8996	0
8997	-0.5		8998	0.409	8999	15.688
9000	-0.7		9001	0.62	9002	28.861
9003	-0.9		9004	0.682	9005	37.108
9006	-1.1		9007	0.648	9008	41.753
9009	-1.3		9010	0.559	9011	44.537
9012	-1.5		9013	0.448	9014	46.648
9015	-1.7		9016	0.335	9017	47.664
9018	-1.9		9019	0.234	9020	47.13
9021	-2.1		9022	0.149	9023	44.61
9024	-2.3		9025	0.083	9026	43.272
9027	-2.5		9028	0.033	9029	41.909
9030	-2.7		9031	0.535	9032	39.514
9033	-2.9		9034	9.667	9035	35.979
9036	-3		9037	14.71	9038	33.744
9039	-3.2		9040	1.313	9041	28.284
9042	-3.4		9043	1.126	9044	21.404
9045	-3.6		9046	1.576	9047	21.372
9048	-3.8		9049	1.687	9050	30.271
9051	-4		9052	2.473	9053	37.453
9054	-4.2		9055	8.46	9056	42.82
9057	-4.4		9058	12.95	9059	46.277
9060	-4.6		9061	16.2	9062	47.729
9063	-4.8		9064	18.444	9065	47.081
9066	-5		9067	19.906	9068	44.214
9069	-5.2		9070	20.987	9071	39.036
9072	-5.4		9073	17.627	9074	33.859
9075	-5.6		9076	10.872	9077	28.681
9078	-5.8		9079	5.271	9080	23.491
9081	-6		9082	1.772	9083	18.235
9084	-6.2		9085	0	9086	12.992
9087	-6.4		9088	0	9089	7.806
9090	-6.6		9091	0	9092	2.62
9093	-6.8		9094	4.754	9095	0.531
9096	-7		9097	11.802	9098	0.234
9099	-7.2		9100	20.491	9101	0.06
9102	-7.4		9103	31.331	9104	0
9105	-7.5		9106	37.535	9107	0
9108	-7.7		9109	33.847	9110	0
9111	-7.9		9112	32.514	9113	0
9114	-8.1		9115	37.756	9116	0
9117	-8.3		9118	36.612	9119	0
9120	-8.5		9121	30.422	9122	0
9123	-8.7		9124	20.528	9125	0.001
9126	-8.9		9127	11.8	9128	0.001
9129	-9.1		9130	8.149	9131	0.001
9132	-9.3		9133	4.961	9134	0
9135	-9.5		9136	2.685	9137	1.147
9138	-9.7		9139	1.233	9140	1.587
9141	-9.9		9142	0.348	9143	1.363
9144	-10.1		9145	0	9146	0.923

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)	
9147	-10.3		9148	0		9149	0.999
9150	-10.5		9151	0		9152	1.641
9153	-10.7		9154	0		9155	2.258
9156	-10.9		9157	0.057		9158	2.827
9159	-11.1		9160	0.078		9161	3.263
9162	-11.3		9163	0.069		9164	3.208
9165	-11.5		9166	0.049		9167	2.078
9168	-11.7		9169	2.036		9170	1.375
9171	-11.9		9172	7.997		9173	1.541
9174	-12		9175	12.093		9176	1.618
9177	-12.2		9178	5.294		9179	1.626
9180	-12.4		9181	1.328		9182	0.999
9183	-12.6		9184	0.816		9185	1.478
9186	-12.8		9187	1.551		9188	1.314
9189	-13		9190	1.595		9191	1.029
9192	-13.2		9193	1.303		9194	1.035
9195	-13.4		9196	0.914		9197	1.042
9198	-13.6		9199	0.56		9200	1.049
9201	-13.8		9202	0.295		9203	1.056
9204	-14		9205	0.147		9206	1.062
9207	-14.2		9208	0.138		9209	1.069
9210	-14.4		9211	0.112		9212	1.076
9213	-14.6		9214	0.083		9215	1.082
9216	-14.8		9217	0.058		9218	1.089
9219	-15		9220	0.04		9221	1.096
9222	-15.2		9223	0.027		9224	1.102
9225	-15.4		9226	0.02		9227	1.109
9228	-15.6		9229	0.018		9230	1.116
9231	-15.8		9232	0.019		9233	1.123
9234	-16		9235	0.018		9236	1.129
9237	-16.2		9238	0.017		9239	1.136
9240	-16.4		9241	0.015		9242	1.143
9243	-16.6		9244	0.013		9245	1.149
9246	-16.8		9247	0.011		9248	1.156
9249	-17		9250	0.01		9251	0.48
9252	-17.2		9253	1.733		9254	0
9255	-17.4		9256	2.571		9257	0
9258	-17.6		9259	2.408		9260	0
9261	-17.8		9262	1.822		9263	0
9264	-18		9265	1.176		9266	0
9267	-18.2		9268	0.646		9269	0
9270	-18.4		9271	0.286		9272	0
9273	-18.6		9274	0.079		9275	0
9276	-18.8		9277	0.005		9278	0.016
9279	-19		9280	0.005		9281	0.041
9282	-19.2		9283	0.006		9284	0.031
9285	-19.4		9286	0.007		9287	0.006
9288	-19.6		9289	0.02		9290	0
9291	-19.8		9292	0.041		9293	0
9294	-20		9295	0.052		9296	0
9297	-20.2		9298	0.046		9299	0
9300	-20.4		9301	0.035		9302	0
9303	-20.6		9304	0.023		9305	0
9306	-20.8		9307	0.014		9308	0
9309	-21		9310	0.009		9311	0
9312	-21.2		9313	0.005		9314	0
9315	-21.4		9316	0.004		9317	0
9318	-21.6		9319	0.004		9320	0
9321	-21.8		9322	0.004		9323	0
9324	-22		9325	0.004		9326	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)	
9327	-22.2		9328	0.004		9329	0
9330	-22.4		9331	0.004		9332	0
9333	-22.6		9334	0.004		9335	0
9336	-22.8		9337	0.004		9338	0
9339	-23		9340	0.004		9341	0
9342	-23.2		9343	0.003		9344	0
9345	-23.4		9346	0.002		9347	0
9348	-23.6		9349	0.002		9350	0
9351	-23.8		9352	0.001		9353	0
9354	-24		9355	0		9356	0

**Grafico Involuppi Momento Nominal**



123.  
 124. Momento

**Tabella Involuppi Taglio Nominal WallElement**

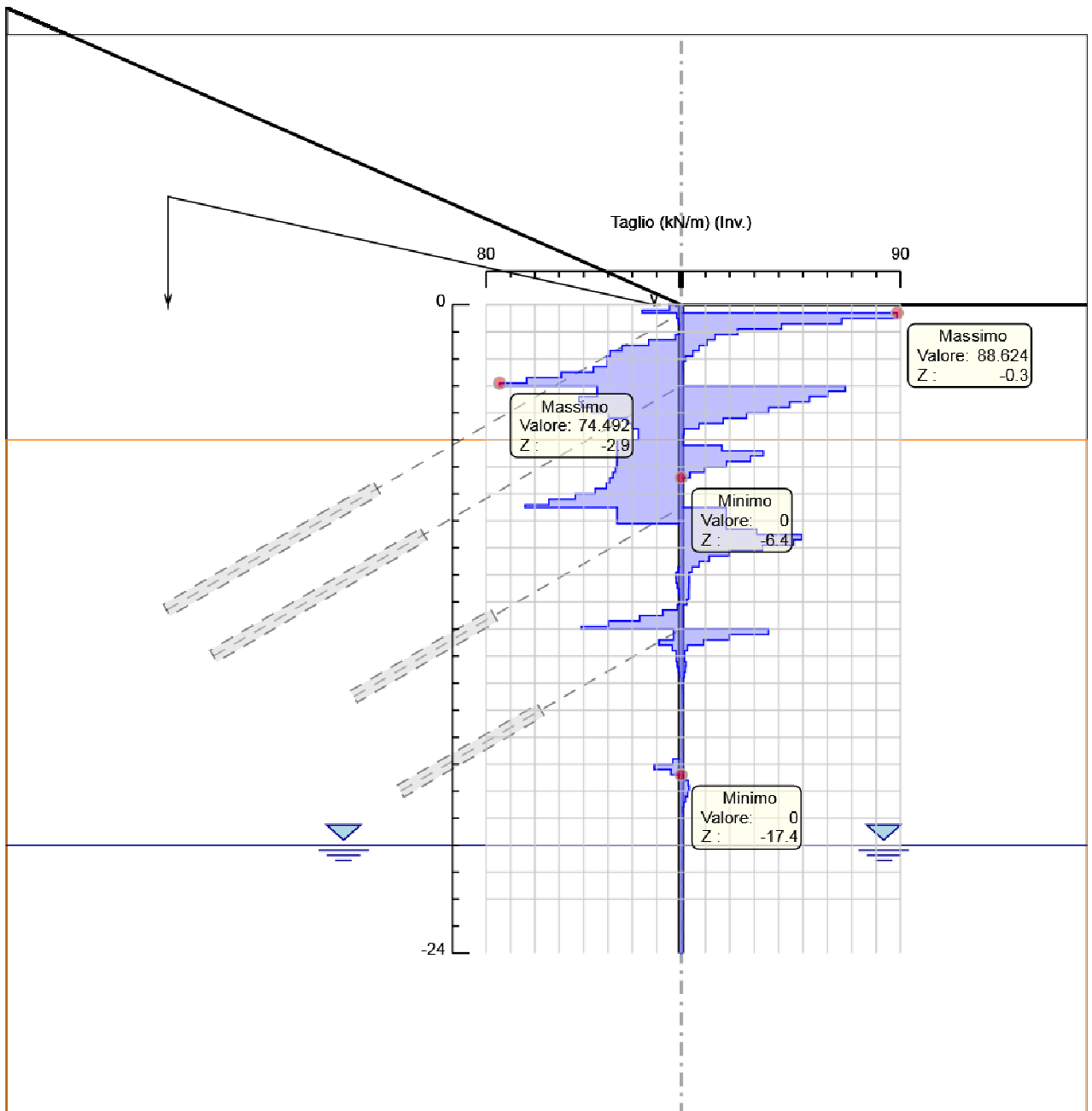
153	Design Assumption: Nominal		154	Involuppi: Taglio		155	Muro: WallElement	
	156	Z (m)	157	Lato sinistro (kN/m)		158	Lato destro (kN/m)	
	9357	0	9358	4.863		9359	0	
	9360	-0.2	9361	15.984		9362	0	
	9363	-0.3	9364	15.984		9365	88.624	
	9366	-0.5	9367	1.797		9368	88.624	
	9369	-0.7	9370	1.053		9371	65.866	
	9372	-0.9	9373	0.313		9374	41.233	
	9375	-1.1	9376	2.305		9377	23.226	
	9378	-1.3	9379	13.407		9380	13.918	
	9381	-1.5	9382	24.247		9383	10.556	
	9384	-1.7	9385	29.186		9386	7.313	
	9387	-1.9	9388	30.268		9389	4.89	
	9390	-2.1	9391	30.298		9392	1.798	
	9393	-2.3	9394	35.97		9395	0.332	
	9396	-2.5	9397	49.235		9398	0.25	
	9399	-2.7	9400	63.39		9401	0.185	
	9402	-2.9	9403	74.492		9404	0.14	
	9405	-3	9406	74.492		9407	67.31	
	9408	-3.2	9409	34.403		9410	67.31	
	9411	-3.4	9412	42.009		9413	60.204	
	9414	-3.6	9415	42.009		9416	52.598	
	9417	-3.8	9418	40.7		9419	44.497	
	9420	-4	9421	36.676		9422	35.908	
	9423	-4.2	9424	29.933		9425	26.835	
	9426	-4.4	9427	22.451		9428	17.284	
	9429	-4.6	9430	20.061		9431	7.259	
	9432	-4.8	9433	17.529		9434	1.197	
	9435	-5	9436	26.214		9437	0.808	
	9438	-5.2	9439	26.214		9440	16.803	
	9441	-5.4	9442	26.214		9443	33.773	
	9444	-5.6	9445	26.214		9446	33.773	
	9447	-5.8	9448	26.279		9449	28.478	
	9450	-6	9451	26.953		9452	18.562	
	9453	-6.2	9454	27.985		9455	9.682	
	9456	-6.4	9457	29.307		9458	3.581	
	9459	-6.6	9460	30.701		9461	0	
	9462	-6.8	9463	35.239		9464	0	
	9465	-7	9466	43.445		9467	0	
	9468	-7.2	9469	54.202		9470	0.001	
	9471	-7.4	9472	64.08		9473	0.001	
	9474	-7.5	9475	64.08		9476	18.447	
	9477	-7.7	9478	26.214		9479	18.447	
	9480	-7.9	9481	26.214		9482	18.442	
	9483	-8.1	9484	26.214		9485	18.442	
	9486	-8.3	9487	0		9488	30.951	
	9489	-8.5	9490	0		9491	49.469	
	9492	-8.7	9493	0.001		9494	49.469	
	9495	-8.9	9496	0.003		9497	46.22	
	9498	-9.1	9499	0.003		9500	33.455	
	9501	-9.3	9502	0.003		9503	19.78	
	9504	-9.5	9505	0.002		9506	11.444	
	9507	-9.7	9508	1.12		9509	7.329	
	9510	-9.9	9511	2.201		9512	4.531	
	9513	-10.1	9514	2.201		9515	3.256	
	9516	-10.3	9517	2.087		9518	3.256	
	9519	-10.5	9520	1.512		9521	3.211	
	9522	-10.7	9523	0.891		9524	3.135	

153	Design Assumption: Nominal	154	Inviluppi: Taglio	155	Muro: WallElement	
	156	Z (m)	157	Lato sinistro (kN/m)	158	Lato destro (kN/m)
9525	-10.9		9526	0.409	9527	3.135
9528	-11.1		9529	1.499	9530	2.37
9531	-11.3		9532	7.528	9533	0.827
9534	-11.5		9535	16.984	9536	0.827
9537	-11.7		9538	29.805	9539	0.827
9540	-11.9		9541	40.958	9542	0.827
9543	-12		9544	40.958	9545	35.827
9546	-12.2		9547	3.134	9548	35.827
9549	-12.4		9550	9.074	9551	19.829
9552	-12.6		9553	9.074	9554	9.158
9555	-12.8		9556	3.676	9557	2.594
9558	-13		9559	2.057	9560	1.461
9561	-13.2		9562	2.057	9563	1.945
9564	-13.4		9565	1.573	9566	1.945
9567	-13.6		9568	0.988	9569	1.769
9570	-13.8		9571	0.493	9572	1.327
9573	-14		9574	0.152	9575	0.855
9576	-14.2		9577	0	9578	0.469
9579	-14.4		9580	0	9581	0.202
9582	-14.6		9583	0.031	9584	0.145
9585	-14.8		9586	0.054	9587	0.125
9588	-15		9589	0.054	9590	0.093
9591	-15.2		9592	0.05	9593	0.062
9594	-15.4		9595	0.035	9596	0.037
9597	-15.6		9598	0.018	9599	0.034
9600	-15.8		9601	0.005	9602	0.034
9603	-16		9604	0	9605	0.034
9606	-16.2		9607	0	9608	0.034
9609	-16.4		9610	0	9611	0.034
9612	-16.6		9613	0	9614	0.034
9615	-16.8		9616	3.382	9617	0.034
9618	-17		9619	11.064	9620	0.006
9621	-17.2		9622	11.064	9623	0.005
9624	-17.4		9625	4.191	9626	0.815
9627	-17.6		9628	0	9629	2.932
9630	-17.8		9631	0	9632	3.231
9633	-18		9634	0	9635	3.231
9636	-18.2		9637	0	9638	2.646
9639	-18.4		9640	0	9641	1.803
9642	-18.6		9643	0	9644	1.036
9645	-18.8		9646	0.001	9647	0.474
9648	-19		9649	0.054	9650	0.126
9651	-19.2		9652	0.124	9653	0
9654	-19.4		9655	0.131	9656	0
9657	-19.6		9658	0.131	9659	0
9660	-19.8		9661	0.104	9662	0
9663	-20		9664	0.053	9665	0.028
9666	-20.2		9667	0	9668	0.057
9669	-20.4		9670	0	9671	0.057
9672	-20.6		9673	0	9674	0.057
9675	-20.8		9676	0	9677	0.044
9678	-21		9679	0	9680	0.029
9681	-21.2		9682	0	9683	0.016
9684	-21.4		9685	0	9686	0.007
9687	-21.6		9688	0.001	9689	0.002
9690	-21.8		9691	0.001	9692	0
9693	-22		9694	0.001	9695	0
9696	-22.2		9697	0.001	9698	0
9699	-22.4		9700	0	9701	0
9702	-22.6		9703	0	9704	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)
	9705	-22.8		9706	0		9707 0.002
	9708	-23		9709	0		9710 0.003
	9711	-23.2		9712	0		9713 0.004
	9714	-23.4		9715	0		9716 0.005
	9717	-23.6		9718	0		9719 0.005
	9720	-23.8		9721	0		9722 0.005
	9723	-24		9724	0		9725 0.003

Grafico Involuppi Taglio Nominal



125.  
 126. Taglio

## Risultati Elementi strutturali

<b>159</b>	<b>Design Assumption: Nominal 160</b>		<b>Sollecitazione 1 fila</b>	
<b>161</b>	<b>Stage</b>	<b>162</b>	<b>Forza (kN/m)</b>	
9726	Stage 3	9727	133.3	
9728	Stage 4	9729	131.1527	
9730	Stage 5	9731	131.3821	
9732	Stage 6	9733	128.9318	
9734	Stage 7	9735	128.8834	
9736	Stage 8	9737	128.8784	
9738	Stage 9	9739	128.8783	
9740	Stage 10	9741	128.8783	

<b>163</b>	<b>Design Assumption: Nominal 164</b>		<b>Sollecitazione 2 fila</b>	
<b>165</b>	<b>Stage</b>	<b>166</b>	<b>Forza (kN/m)</b>	
9742	Stage 5	9743	133.3	
9744	Stage 6	9745	141.2915	
9746	Stage 7	9747	141.4054	
9748	Stage 8	9749	141.4185	
9750	Stage 9	9751	141.4188	
9752	Stage 10	9753	141.4188	

<b>167</b>	<b>Design Assumption: Nominal 168</b>		<b>Sollecitazione 3 fila</b>	
<b>169</b>	<b>Stage</b>	<b>170</b>	<b>Forza (kN/m)</b>	
9754	Stage 7	9755	100	
9756	Stage 8	9757	100.1693	
9758	Stage 9	9759	100.1692	
9760	Stage 10	9761	100.1692	

<b>171</b>	<b>Design Assumption: Nominal 172</b>		<b>Sollecitazione 4 fila</b>	
<b>173</b>	<b>Stage</b>	<b>174</b>	<b>Forza (kN/m)</b>	
9762	Stage 9	9763	100	
9764	Stage 10	9765	100.0208	

## 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							
9766	Stage 1	9767	3590.4	9768	80	9769	3670.4	9770	130.7	9771	123069.3	9772	2.92%	9773	27.47
9774	Stage 2	9775	3543.9	9776	80	9777	3623.9	9778	130.7	9779	123069.3	9780	2.88%	9781	27.11
9782	Stage 3	9783	3623	9784	80	9785	3703	9786	130.7	9787	123069.3	9788	2.94%	9789	27.72
9790	Stage 4	9791	3290.8	9792	80	9793	3370.8	9794	130.7	9795	123069.3	9796	2.67%	9797	25.18
9798	Stage 5	9799	3385.5	9800	80	9801	3465.5	9802	130.7	9803	123069.3	9804	2.75%	9805	25.9
9806	Stage 6	9807	2713.1	9808	80	9809	2793.1	9810	130.7	9811	123069.3	9812	2.2%	9813	20.76
9814	Stage 7	9815	2797	9816	80	9817	2877	9818	130.7	9819	123069.3	9820	2.27%	9821	21.4
9822	Stage 8	9823	2034.3	9824	80	9825	2114.3	9826	130.7	9827	123069.3	9828	1.65%	9829	15.56
9830	Stage 9	9831	2117.3	9832	80	9833	2197.3	9834	130.7	9835	123069.3	9836	1.72%	9837	16.2
9838	Stage	9839	1396.9	9840	80	9841	1476.9	9842	130.7	9843	123069.3	9844	1.14%	9845	10.69

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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							
9846	Stage 1	9847	3590.4	9848	80	9849	3670.4	9850	38.6	9851	77536.2	9852	4.63%	9853	93.02
9854	Stage 2	9855	3543.9	9856	80	9857	3623.9	9858	28.2	9859	75531.7	9860	4.69%	9861	125.67
9862	Stage 3	9863	3507.6	9864	80	9865	3587.6	9866	28.2	9867	75531.7	9868	4.64%	9869	124.38
9870	Stage 4	9871	3177.2	9872	80	9873	3257.2	9874	0	9875	63897.8	9876	4.97%	9877	+Infinito
9878	Stage 5	9879	3156.3	9880	80	9881	3236.3	9882	0	9883	63897.8	9884	4.94%	9885	+Infinito
9886	Stage 6	9887	2479.1	9888	80	9889	2559.1	9890	0	9891	43901.8	9892	5.65%	9893	+Infinito
9894	Stage 7	9895	2476.3	9896	80	9897	2556.3	9898	0	9899	43901.8	9900	5.64%	9901	+Infinito
9902	Stage 8	9903	1713.4	9904	80	9905	1793.4	9906	0	9907	25734.9	9908	6.66%	9909	+Infinito
9910	Stage 9	9911	1709.8	9912	80	9913	1789.8	9914	0	9915	25734.9	9916	6.64%	9917	+Infinito
9918	Stage	9919	989.4	9920	80	9921	1069.4	9922	0	9923	11557.5	9924	8.56%	9925	+Infinito

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