



# COMUNE DI SAN BARTOLOMEO IN GALDO

## Provincia di Benevento

PROGETTO:

PROGETTO PER IL RISANAMENTO IDROGEOLOGICO  
DELLE AREE A VALLE DEL CENTRO ABITATO

# PROGETTO ESECUTIVO

## I° STRALCIO FUNZIONALE

DESCRIZIONE ELABORATO:

Calcoli statici paratie

**LOCALITA' VADORICCI**

PROGRESSIVO

CODICE

**12**

**R.1.2**

SCALA:

-

RTP PROGETTAZIONE:

General Engineering SRL (capogruppo mandatario)

Ing. Carlo Camilleri (mandante)

Ing. Antonio D'Andrea (mandante)

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Arch. Viviana Solla (mandante)

Geologo Dott. Angelo Monaco (mandante)

DATA	REV.	DESCRIZIONE DELLA REVISIONE	RESPONSABILE REVISIONE
GENNAIO 2018	0	PRIMA EMISSIONE	
FEBBRAIO 2020	1	SECONDA EMISSIONE	

## 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 : POLYLINE

Punti

(-15;3)

(15;3)

(15;-30)

(-15;-30)

OCR : 1

Tipo : POLYLINE

Punti

(-15;-2)

(-5.5;-2.5)

(4.5;-3)

(15;-5)

(15;-30)

(-15;-30)

OCR : 1

Strato di Terreno		$\gamma$ dry	$\gamma$ sat	$\phi'$	$\phi_{cv}$	$\phi_p$	$c'$	$S_u$	Modulo	Eu	Evc	Eur	Ku	Kvc	Kur
Terreno		kN/m <sup>3</sup>	kN/m <sup>3</sup>	°	°	°	kPa	kPa	Elastico		kPa	kPa	kN/m <sup>3</sup>	kN/m <sup>3</sup>	kN/m <sup>3</sup>
1	Primo strato	16.5	17.7	21.6			19.3		Constant		15000	44999.9			
2	Secondo strato	14	16.5		21.4	18		37	Winkler				3000	3143.04	9429.13

## Descrizione Pareti

X : 0 m

Quota in alto : 0 m

Quota di fondo : -16 m

Muro di sinistra

Armatura      Lunghezza segmenti : 1 m

Rinforzo longitudinale 1

Lunghezza : 16 m

Materiale :

Quota iniziale : 0 m

Barre 1

Numero di barre : 16

Diametro : 0.02 m

Distanza dal bordo : 0.06 m

Staffe 1

Numero di staffe : 2

Copertura : 0.04 m

Diametro : 0.01 m

Lunghezza : 16 m

Quota iniziale : 0 m

Passo : 0.2 m

Sezione : Pali 800mm i 1.00m

Area equivalente : 0.502654824574367 m

Inerzia equivalente : 0.0201 m<sup>4</sup>/m

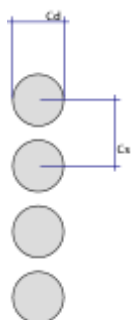
Materiale calcestruzzo : C25/30

Tipo sezione : Tangent

Spaziatura : 1 m

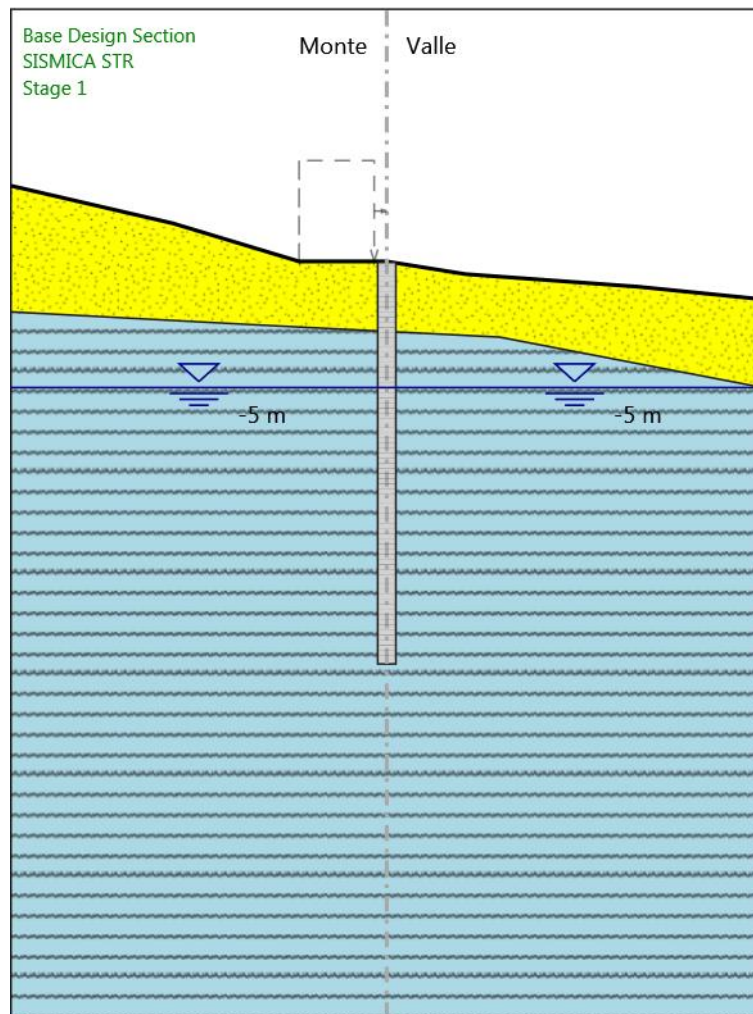
Diametro : 0.8 m

Efficacia : 1



## Fasi di Calcolo

### Stage 1



### Stage 1

Elementi strutturali

Paratia : WallElement

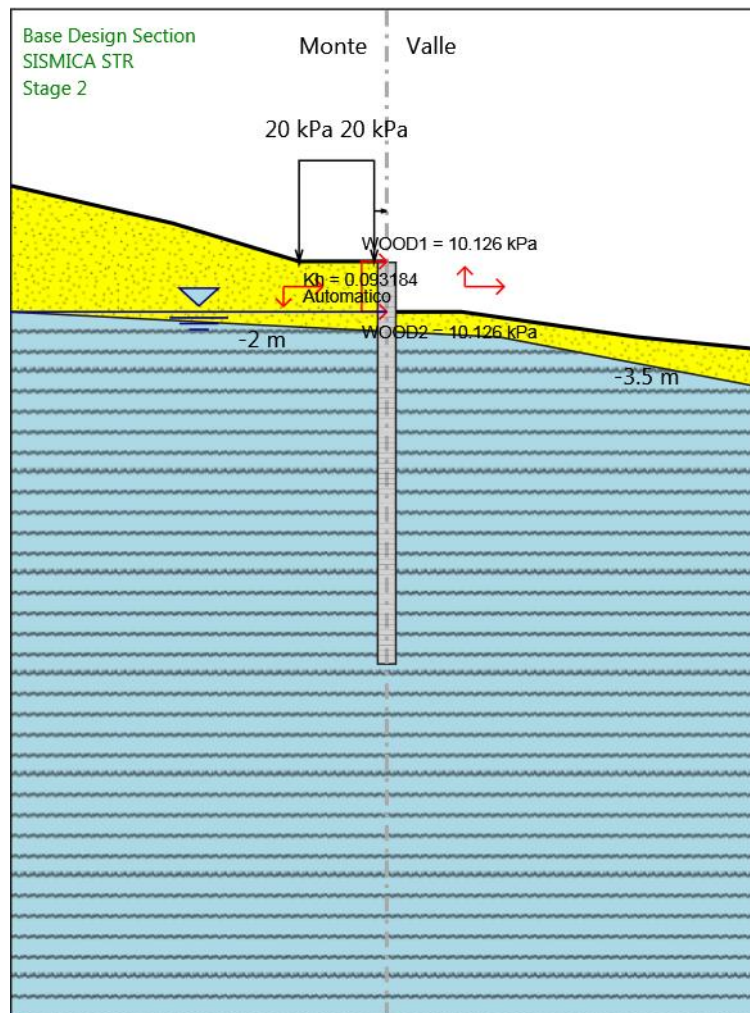
X : 0 m

Quota in alto : 0 m

Quota di fondo : -16 m

Sezione : Pali 800mm i 1.00m

## Stage 2



## Stage 2

## Elementi strutturali

## Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -16 m

Sezione : Pali 800mm i 1.00m

## Descrizione Coefficienti Design Assumption

### Coefficienti A

Nome	Carichi Permanenti	Carichi Permanenti	Carichi Variabili Sfavorevoli	Carichi Variabili Favorevoli	Carico Sismico (F_seism_load)	Pressioni Acqua Lato Monte (F_Water DR)	Pressioni Acqua Lato Valle (F_Water Res)	Carichi Permanenti Destabilizzanti (F_UPL_G DStab)	Carichi Permanenti Stabilizzanti (F_UPL_G Stab)	Carichi Variabili Destabilizzanti (F_UPL_Q DStab)	Carichi Permanenti Destabilizzanti (F_HYD_G DStab)	Carichi Permanenti Stabilizzanti (F_HYD_G Stab)	Carichi Variabili Destabilizzanti (F_HYD_Q DStab)
Simbolo	$\gamma_G$	$\gamma_G$	$\gamma_Q$	$\gamma_Q$	$\gamma_{QE}$	$\gamma_G$	$\gamma_G$	$\gamma_{Gdst}$	$\gamma_{Gstb}$	$\gamma_{Qdst}$	$\gamma_{Gdst}$	$\gamma_{Gstb}$	$\gamma_{Qdst}$
Nominal	1	1	1	1	1	1	1	1	1	1	1	1	1
SLE (Rara/Frequente/Quasi Permanente)	1	1	1	1	0	1	1	1	1	1	1	1	1
A1+M1+R1 (R3 per tiranti)	1.3	1	1.5	1	0	1.3	1	1	1	1	1.3	0.9	1
A2+M2+R1	1	1	1.3	1	0	1	1	1	1	1	1.3	0.9	1
SISMICA STR	1	1	1	1	1	1	1	1	1	1	1	1	1
SISMICA GEO	1	1	1	1	1	1	1	1	1	1	1.3	0.9	1

### Coefficienti M

Nome	Parziale su $\tan(\phi')$ (F_Fr)	Parziale su c' (F_eff_cohe)	Parziale su Su (F_Su)	Parziale su qu (F_qu)	Parziale su peso specifico (F_gamma)
Simbolo	$\gamma_\phi$	$\gamma_c$	$\gamma_{cu}$	$\gamma_{qu}$	$\gamma_\gamma$
Nominal	1	1	1	1	1
SLE (Rara/Frequente/Quasi Permanente)	1	1	1	1	1
A1+M1+R1 (R3 per tiranti)	1	1	1	1	1
A2+M2+R1	1.25	1.25	1.4	1	1
SISMICA STR	1	1	1	1	1
SISMICA GEO	1.25	1.25	1.4	1	1

### Coefficienti R

Nome	Parziale resistenza terreno (es. Kp) (F_Soil_Res_walls)	Parziale resistenza Tiranti permanenti (F_Anch_P)	Parziale resistenza Tiranti temporanei (F_Anch_T)	Parziale elementi strutturali (F_wall)
Simbolo	$\gamma_{Re}$	$\gamma_{ap}$	$\gamma_{at}$	
Nominal	1	1	1	1
SLE (Rara/Frequente/Quasi Permanente)	1	1	1	1
A1+M1+R1 (R3 per tiranti)	1	1.2	1.1	1
A2+M2+R1	1	1.2	1.1	1
SISMICA STR	1	1.2	1.1	1
SISMICA GEO	1	1.2	1.1	1

## Risultati SLE (Rara/Frequente/Quasi Permanente)

Tabella Spostamento SLE (Rara/Frequente/Quasi Permanente) - LEFT Stage: Stage 1

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)		Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)	
Stage 1	0	0	
Stage 1	-0.2	0	
Stage 1	-0.4	0	
Stage 1	-0.6	0	
Stage 1	-0.8	0	
Stage 1	-1	0	
Stage 1	-1.2	0	
Stage 1	-1.4	0	
Stage 1	-1.6	0	
Stage 1	-1.8	0	
Stage 1	-2	0	
Stage 1	-2.2	0	
Stage 1	-2.4	0	
Stage 1	-2.6	0	
Stage 1	-2.8	0	
Stage 1	-3	0	
Stage 1	-3.2	0	
Stage 1	-3.4	0	
Stage 1	-3.6	0	
Stage 1	-3.8	0	
Stage 1	-4	0	
Stage 1	-4.2	0	
Stage 1	-4.4	0	
Stage 1	-4.6	0	
Stage 1	-4.8	0	
Stage 1	-5	0	
Stage 1	-5.2	0	
Stage 1	-5.4	0	
Stage 1	-5.6	0	
Stage 1	-5.8	0	
Stage 1	-6	0	
Stage 1	-6.2	0	
Stage 1	-6.4	0	
Stage 1	-6.6	0	
Stage 1	-6.8	0	
Stage 1	-7	0	
Stage 1	-7.2	0	
Stage 1	-7.4	0	
Stage 1	-7.6	0	
Stage 1	-7.8	0	
Stage 1	-8	0	
Stage 1	-8.2	0	
Stage 1	-8.4	0	
Stage 1	-8.6	0	
Stage 1	-8.8	0	
Stage 1	-9	0	
Stage 1	-9.2	0	
Stage 1	-9.4	0	
Stage 1	-9.6	0	
Stage 1	-9.8	0	
Stage 1	-10	0	
Stage 1	-10.2	0	
Stage 1	-10.4	0	
Stage 1	-10.6	0	
Stage 1	-10.8	0	
Stage 1	-11	0	
Stage 1	-11.2	0	
Stage 1	-11.4	0	
Stage 1	-11.6	0	
Stage 1	-11.8	0	
Stage 1	-12	0	

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)		Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)	
Stage 1	-12.2	0	
Stage 1	-12.4	0	
Stage 1	-12.6	0	
Stage 1	-12.8	0	
Stage 1	-13	0	
Stage 1	-13.2	0	
Stage 1	-13.4	0	
Stage 1	-13.6	0	
Stage 1	-13.8	0	
Stage 1	-14	0	
Stage 1	-14.2	0	
Stage 1	-14.4	0	
Stage 1	-14.6	0	
Stage 1	-14.8	0	
Stage 1	-15	0	
Stage 1	-15.2	0	
Stage 1	-15.4	0	
Stage 1	-15.6	0	
Stage 1	-15.8	0	
Stage 1	-16	0	



**Tabella Risultati Paratia SLE (Rara/Frequente/Quasi Permanente) - Left Wall - Stage: Stage 1**

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Risultati Paratia		Muro: LEFT	
	Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	0	0	0	
Stage 1	-0.2	0	0	
Stage 1	-0.4	0	0	
Stage 1	-0.6	0	0	
Stage 1	-0.8	0	0	
Stage 1	-1	0	0	
Stage 1	-1.2	0	0	
Stage 1	-1.4	0	0	
Stage 1	-1.6	0	0	
Stage 1	-1.8	0	0	
Stage 1	-2	0	0	
Stage 1	-2.2	0	0	
Stage 1	-2.4	0	0	
Stage 1	-2.6	0	0	
Stage 1	-2.8	0	0	
Stage 1	-3	0	0	
Stage 1	-3.2	0	0	
Stage 1	-3.4	0	0	
Stage 1	-3.6	0	0	
Stage 1	-3.8	0	0	
Stage 1	-4	0	0	
Stage 1	-4.2	0	0	
Stage 1	-4.4	0	0	
Stage 1	-4.6	0	0	
Stage 1	-4.8	0	0	
Stage 1	-5	0	0	
Stage 1	-5.2	0	0	
Stage 1	-5.4	0	0	
Stage 1	-5.6	0	0	
Stage 1	-5.8	0	0	
Stage 1	-6	0	0	
Stage 1	-6.2	0	0	
Stage 1	-6.4	0	0	
Stage 1	-6.6	0	0	
Stage 1	-6.8	0	0	
Stage 1	-7	0	0	
Stage 1	-7.2	0	0	
Stage 1	-7.4	0	0	
Stage 1	-7.6	0	0	
Stage 1	-7.8	0	0	
Stage 1	-8	0	0	
Stage 1	-8.2	0	0	
Stage 1	-8.4	0	0	
Stage 1	-8.6	0	0	
Stage 1	-8.8	0	0	
Stage 1	-9	0	0	
Stage 1	-9.2	0	0	
Stage 1	-9.4	0	0	
Stage 1	-9.6	0	0	
Stage 1	-9.8	0	0	
Stage 1	-10	0	0	
Stage 1	-10.2	0	0	
Stage 1	-10.4	0	0	
Stage 1	-10.6	0	0	
Stage 1	-10.8	0	0	
Stage 1	-11	0	0	
Stage 1	-11.2	0	0	
Stage 1	-11.4	0	0	
Stage 1	-11.6	0	0	
Stage 1	-11.8	0	0	
Stage 1	-12	0	0	
Stage 1	-12.2	0	0	

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)		Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)	
Stage 1	-12.4	0	0	
Stage 1	-12.6	0	0	
Stage 1	-12.8	0	0	
Stage 1	-13	0	0	
Stage 1	-13.2	0	0	
Stage 1	-13.4	0	0	
Stage 1	-13.6	0	0	
Stage 1	-13.8	0	0	
Stage 1	-14	0	0	
Stage 1	-14.2	0	0	
Stage 1	-14.4	0	0	
Stage 1	-14.6	0	0	
Stage 1	-14.8	0	0	
Stage 1	-15	0	0	
Stage 1	-15.2	0	0	
Stage 1	-15.4	0	0	
Stage 1	-15.6	0	0	
Stage 1	-15.8	0	0	
Stage 1	-16	0	0	

## Tabella Spostamento SLE (Rara/Frequente/Quasi Permanente) - LEFT Stage: Stage 2

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)
Stage 2	0	1.57
Stage 2	-0.2	1.62
Stage 2	-0.4	1.67
Stage 2	-0.6	1.72
Stage 2	-0.8	1.77
Stage 2	-1	1.82
Stage 2	-1.2	1.87
Stage 2	-1.4	1.92
Stage 2	-1.6	1.97
Stage 2	-1.8	2.02
Stage 2	-2	2.07
Stage 2	-2.2	2.12
Stage 2	-2.4	2.17
Stage 2	-2.6	2.22
Stage 2	-2.8	2.27
Stage 2	-3	2.32
Stage 2	-3.2	2.37
Stage 2	-3.4	2.42
Stage 2	-3.6	2.46
Stage 2	-3.8	2.51
Stage 2	-4	2.55
Stage 2	-4.2	2.59
Stage 2	-4.4	2.63
Stage 2	-4.6	2.66
Stage 2	-4.8	2.7
Stage 2	-5	2.73
Stage 2	-5.2	2.76
Stage 2	-5.4	2.79
Stage 2	-5.6	2.81
Stage 2	-5.8	2.83
Stage 2	-6	2.86
Stage 2	-6.2	2.87
Stage 2	-6.4	2.89
Stage 2	-6.6	2.91
Stage 2	-6.8	2.92
Stage 2	-7	2.93
Stage 2	-7.2	2.94
Stage 2	-7.4	2.95
Stage 2	-7.6	2.95
Stage 2	-7.8	2.96
Stage 2	-8	2.96
Stage 2	-8.2	2.96
Stage 2	-8.4	2.96
Stage 2	-8.6	2.96
Stage 2	-8.8	2.96
Stage 2	-9	2.95
Stage 2	-9.2	2.95
Stage 2	-9.4	2.94
Stage 2	-9.6	2.93
Stage 2	-9.8	2.93
Stage 2	-10	2.92
Stage 2	-10.2	2.91
Stage 2	-10.4	2.9
Stage 2	-10.6	2.89
Stage 2	-10.8	2.88
Stage 2	-11	2.87
Stage 2	-11.2	2.86
Stage 2	-11.4	2.85
Stage 2	-11.6	2.83
Stage 2	-11.8	2.82
Stage 2	-12	2.81
Stage 2	-12.2	2.79
Stage 2	-12.4	2.78
Stage 2	-12.6	2.77

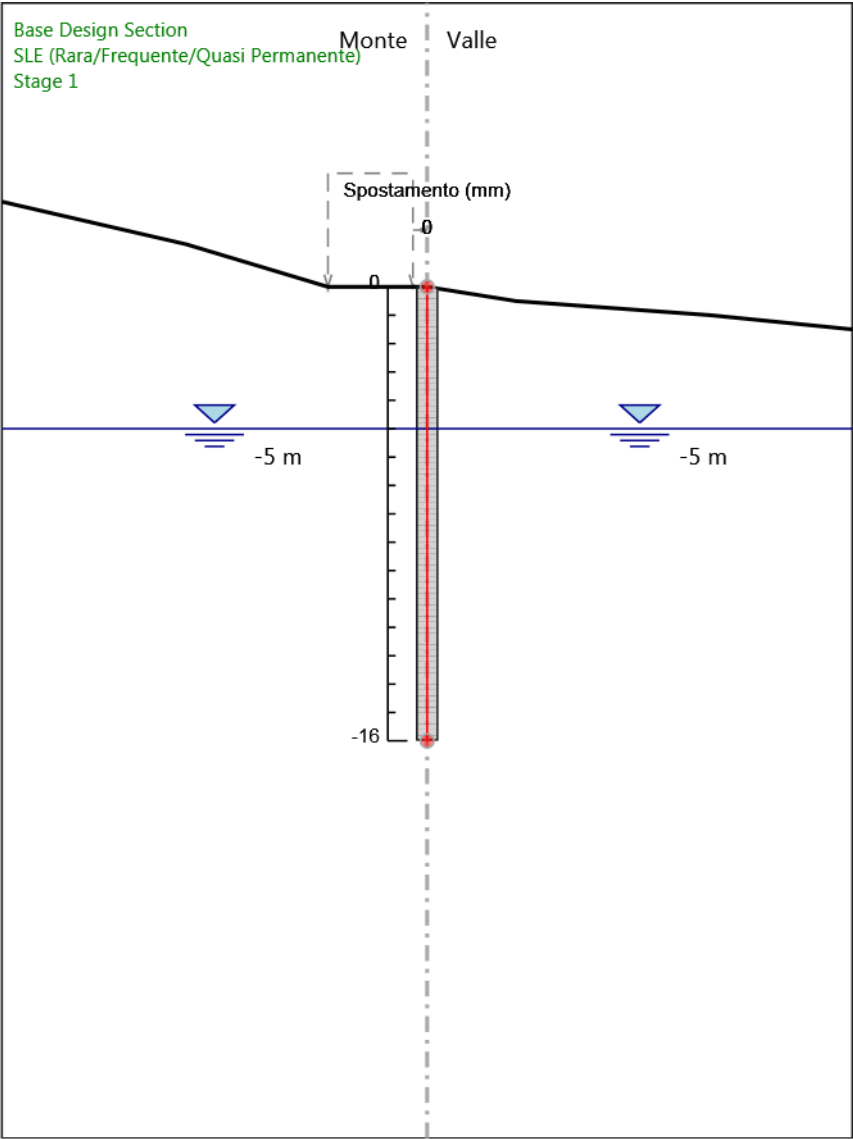
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)		Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento (mm)	
Stage 2	-12.8	2.75	
Stage 2	-13	2.74	
Stage 2	-13.2	2.73	
Stage 2	-13.4	2.71	
Stage 2	-13.6	2.7	
Stage 2	-13.8	2.68	
Stage 2	-14	2.67	
Stage 2	-14.2	2.65	
Stage 2	-14.4	2.64	
Stage 2	-14.6	2.63	
Stage 2	-14.8	2.61	
Stage 2	-15	2.6	
Stage 2	-15.2	2.58	
Stage 2	-15.4	2.57	
Stage 2	-15.6	2.55	
Stage 2	-15.8	2.54	
Stage 2	-16	2.52	

**Tabella Risultati Paratia SLE (Rara/Frequente/Quasi Permanente) - Left Wall - Stage: Stage 2**

Design Assumption: SLE (Rara/Frequente/Quasi Permanente)	Risultati Paratia		Muro: LEFT
	Stage	Z (m)	Momento (kN*m/m)      Taglio (kN/m)
	Stage 2	0	0      0
	Stage 2	-0.2	0      0
	Stage 2	-0.4	0      -0.01
	Stage 2	-0.6	-0.01      -0.03
	Stage 2	-0.8	-0.02      -0.04
	Stage 2	-1	-0.02      -0.04
	Stage 2	-1.2	-0.03      -0.05
	Stage 2	-1.4	-0.05      -0.06
	Stage 2	-1.6	-0.06      -0.07
	Stage 2	-1.8	-0.07      -0.07
	Stage 2	-2	-0.09      -0.08
	Stage 2	-2.2	0.97      5.29
	Stage 2	-2.4	3.15      10.91
	Stage 2	-2.6	6.47      16.61
	Stage 2	-2.8	10.95      22.36
	Stage 2	-3	15.15      21.04
	Stage 2	-3.2	19.04      19.41
	Stage 2	-3.4	22.53      17.48
	Stage 2	-3.6	25.58      15.25
	Stage 2	-3.8	28.14      12.79
	Stage 2	-4	30.23      10.45
	Stage 2	-4.2	31.89      8.31
	Stage 2	-4.4	33.17      6.36
	Stage 2	-4.6	34.09      4.6
	Stage 2	-4.8	34.69      3.02
	Stage 2	-5	35.01      1.6
	Stage 2	-5.2	35.08      0.35
	Stage 2	-5.4	34.93      -0.76
	Stage 2	-5.6	34.58      -1.75
	Stage 2	-5.8	34.06      -2.62
	Stage 2	-6	33.38      -3.37
	Stage 2	-6.2	32.58      -4.02
	Stage 2	-6.4	31.66      -4.57
	Stage 2	-6.6	30.66      -5.03
	Stage 2	-6.8	29.58      -5.41
	Stage 2	-7	28.44      -5.7
	Stage 2	-7.2	27.25      -5.93
	Stage 2	-7.4	26.03      -6.09
	Stage 2	-7.6	24.79      -6.19
	Stage 2	-7.8	23.54      -6.24
	Stage 2	-8	22.3      -6.24
	Stage 2	-8.2	21.06      -6.19
	Stage 2	-8.4	19.84      -6.11
	Stage 2	-8.6	18.64      -5.98
	Stage 2	-8.8	17.47      -5.84
	Stage 2	-9	16.33      -5.69
	Stage 2	-9.2	15.23      -5.52
	Stage 2	-9.4	14.16      -5.35
	Stage 2	-9.6	13.12      -5.17
	Stage 2	-9.8	12.13      -4.97
	Stage 2	-10	11.17      -4.78
	Stage 2	-10.2	10.26      -4.57
	Stage 2	-10.4	9.39      -4.37
	Stage 2	-10.6	8.56      -4.16
	Stage 2	-10.8	7.77      -3.94
	Stage 2	-11	7.02      -3.73
	Stage 2	-11.2	6.32      -3.51
	Stage 2	-11.4	5.66      -3.3
	Stage 2	-11.6	5.04      -3.09
	Stage 2	-11.8	4.46      -2.88
	Stage 2	-12	3.93      -2.67
	Stage 2	-12.2	3.44      -2.47

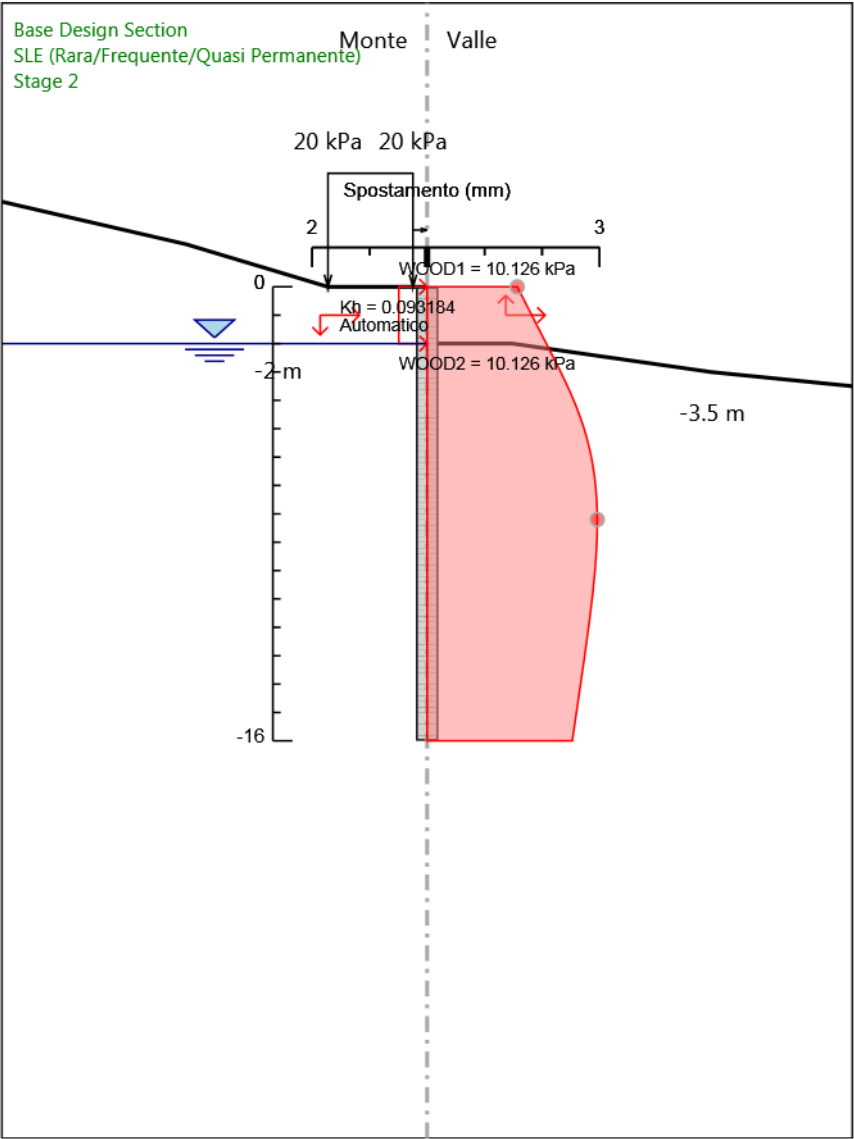
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)		Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)	
Stage 2	-12.4	2.98	-2.27	
Stage 2	-12.6	2.57	-2.08	
Stage 2	-12.8	2.19	-1.89	
Stage 2	-13	1.85	-1.71	
Stage 2	-13.2	1.54	-1.53	
Stage 2	-13.4	1.27	-1.36	
Stage 2	-13.6	1.03	-1.2	
Stage 2	-13.8	0.82	-1.05	
Stage 2	-14	0.64	-0.9	
Stage 2	-14.2	0.49	-0.77	
Stage 2	-14.4	0.36	-0.64	
Stage 2	-14.6	0.25	-0.52	
Stage 2	-14.8	0.17	-0.42	
Stage 2	-15	0.11	-0.32	
Stage 2	-15.2	0.06	-0.23	
Stage 2	-15.4	0.03	-0.15	
Stage 2	-15.6	0.01	-0.09	
Stage 2	-15.8	0	-0.04	
Stage 2	-16	0	-0.01	

Grafico Spostamento SLE (Rara/Frequente/Quasi Permanente) - Stage: Stage 1



Design Assumption: SLE (Rara/Frequente/Quasi Permanente)  
Stage: Stage 1  
Spostamento

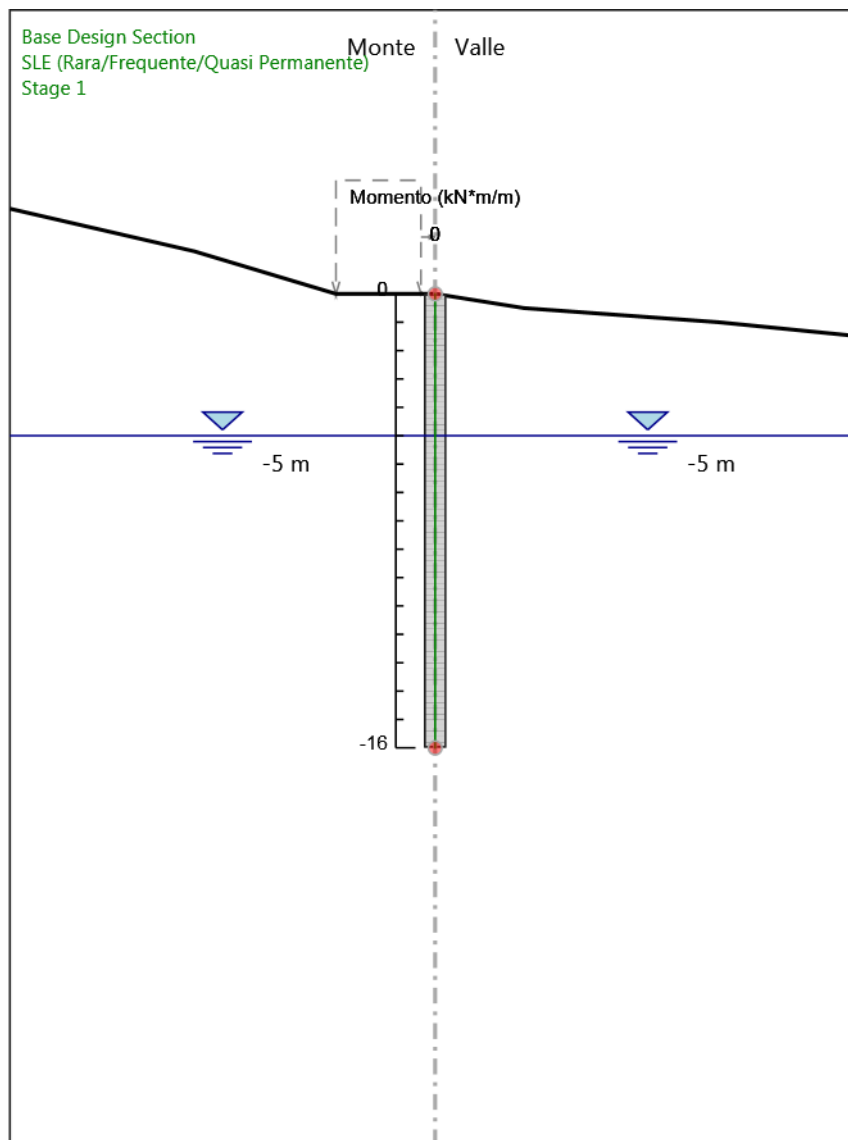
Grafico Spostamento SLE (Rara/Frequente/Quasi Permanente) - Stage: Stage 2



Design Assumption: SLE (Rara/Frequente/Quasi Permanente)  
Stage: Stage 2  
Spostamento

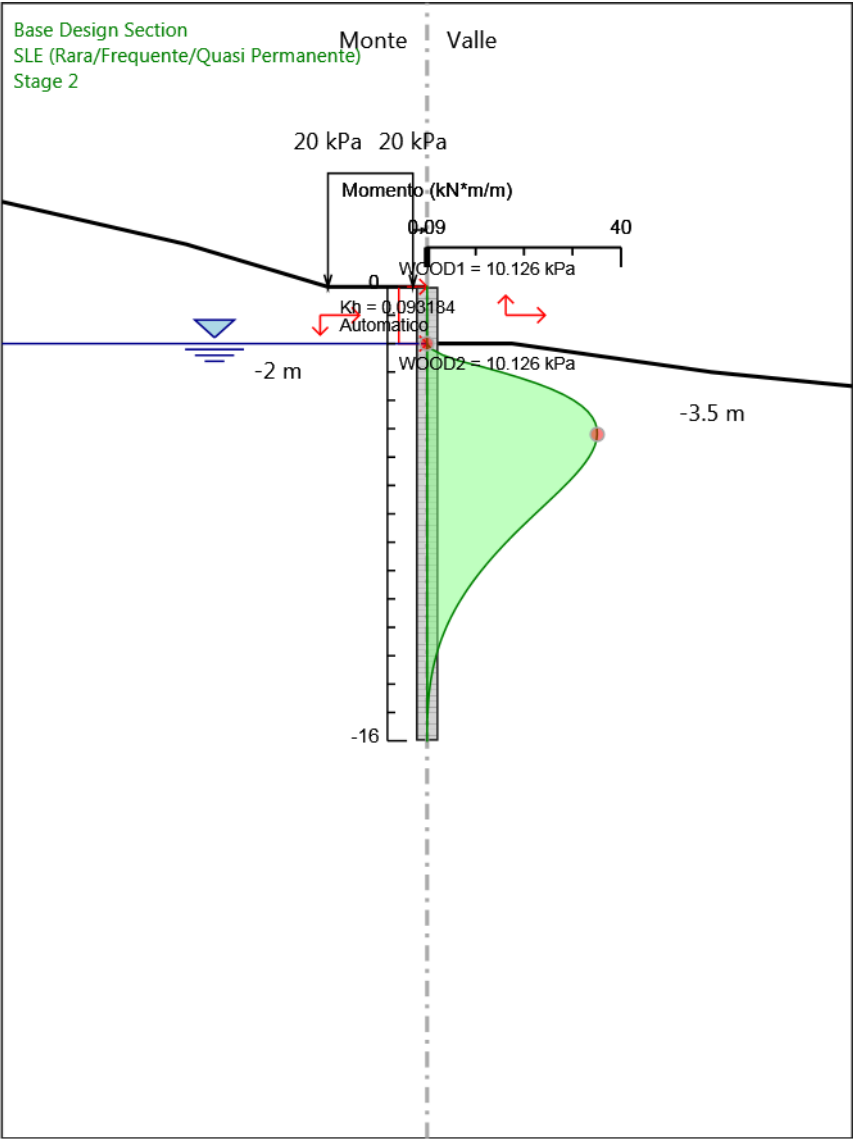


## Grafico Risultati Momento SLE (Rara/Frequente/Quasi Permanente) - Stage: Stage 1



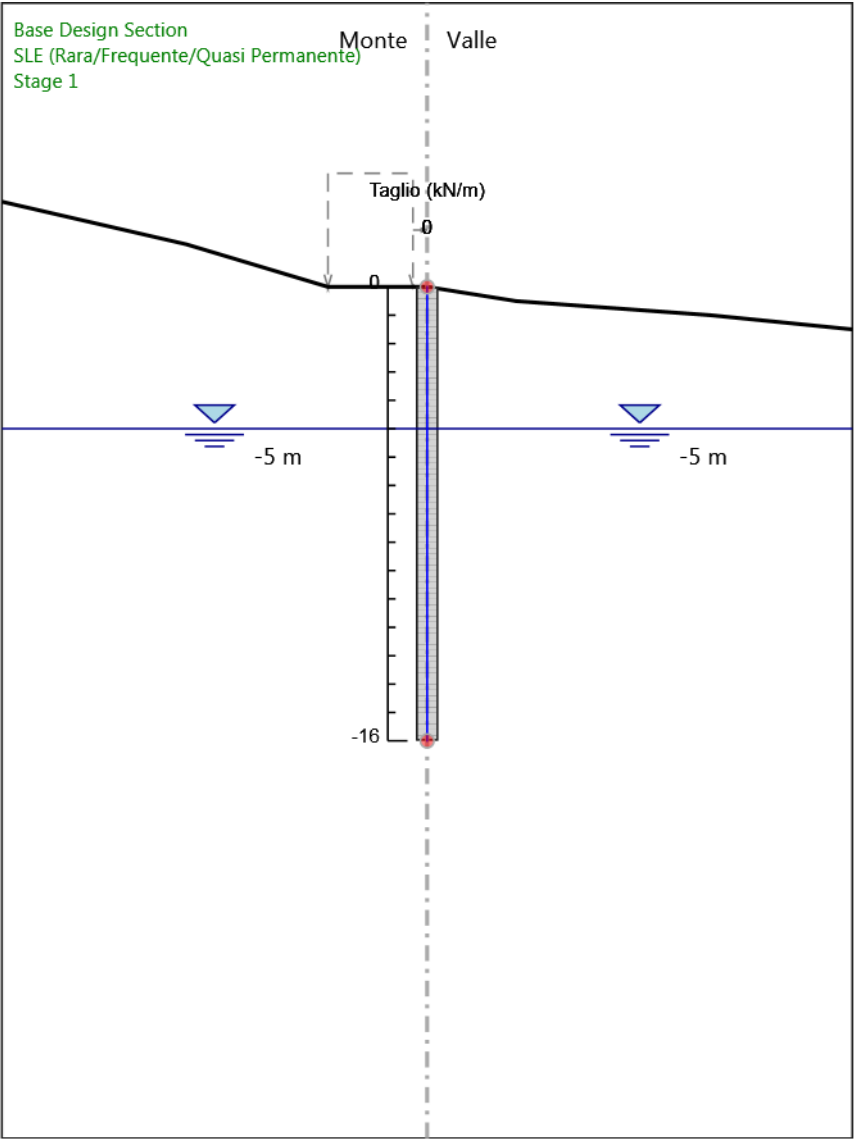
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)  
Stage: Stage 1  
Momento

Grafico Risultati Momento SLE (Rara/Frequente/Quasi Permanente) - Stage: Stage 2



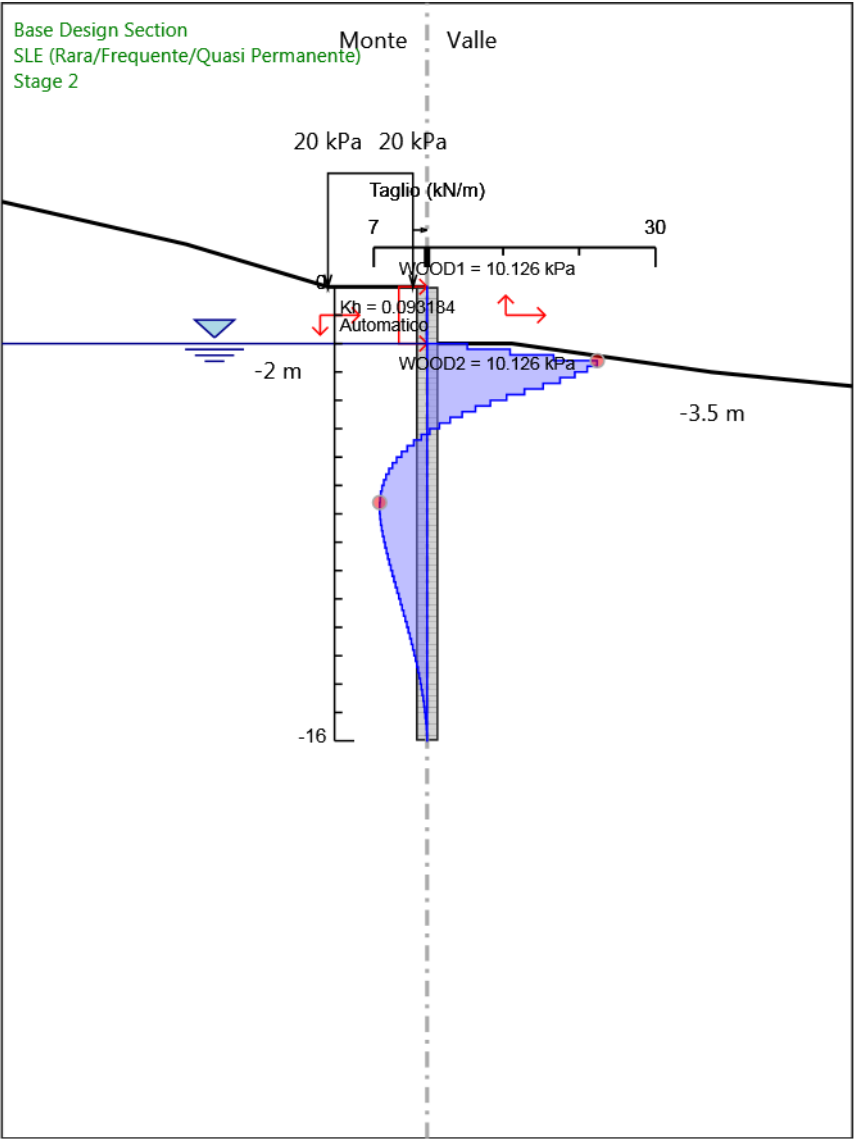
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)  
Stage: Stage 2  
Momento

Grafico Risultati Taglio SLE (Rara/Frequente/Quasi Permanente) - Stage: Stage 1



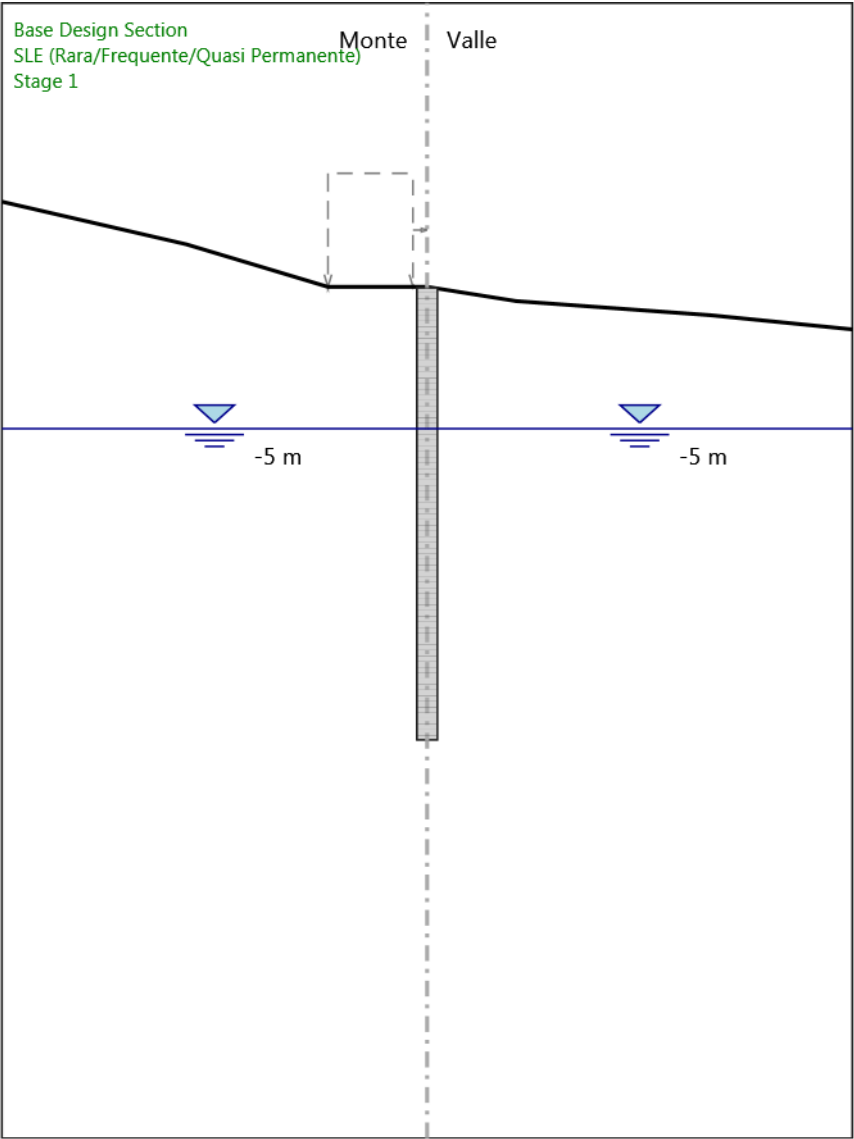
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)  
Stage: Stage 1  
Taglio

Grafico Risultati Taglio SLE (Rara/Frequente/Quasi Permanente) - Stage: Stage 2



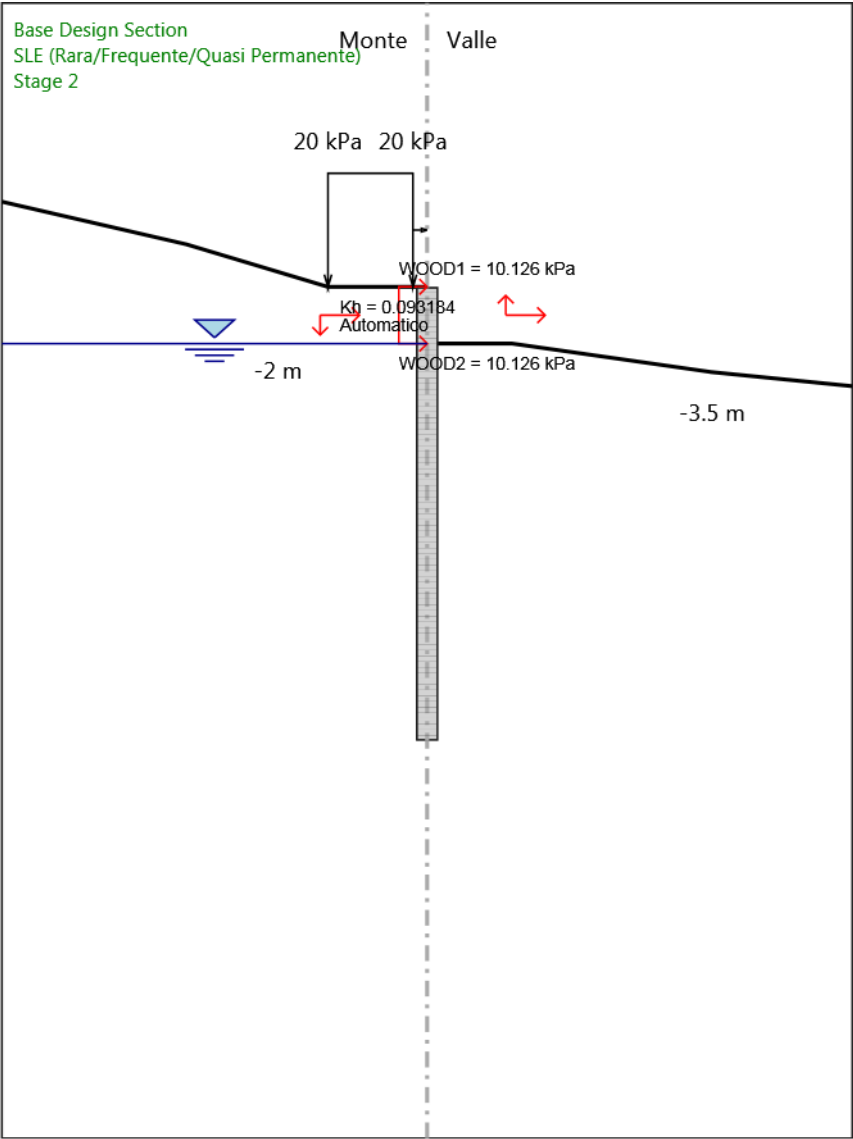
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)  
Stage: Stage 2  
Taglio

**Grafico Risultati Momento SLE (Rara/Frequente/Quasi Permanente) - Stage: Stage 1**



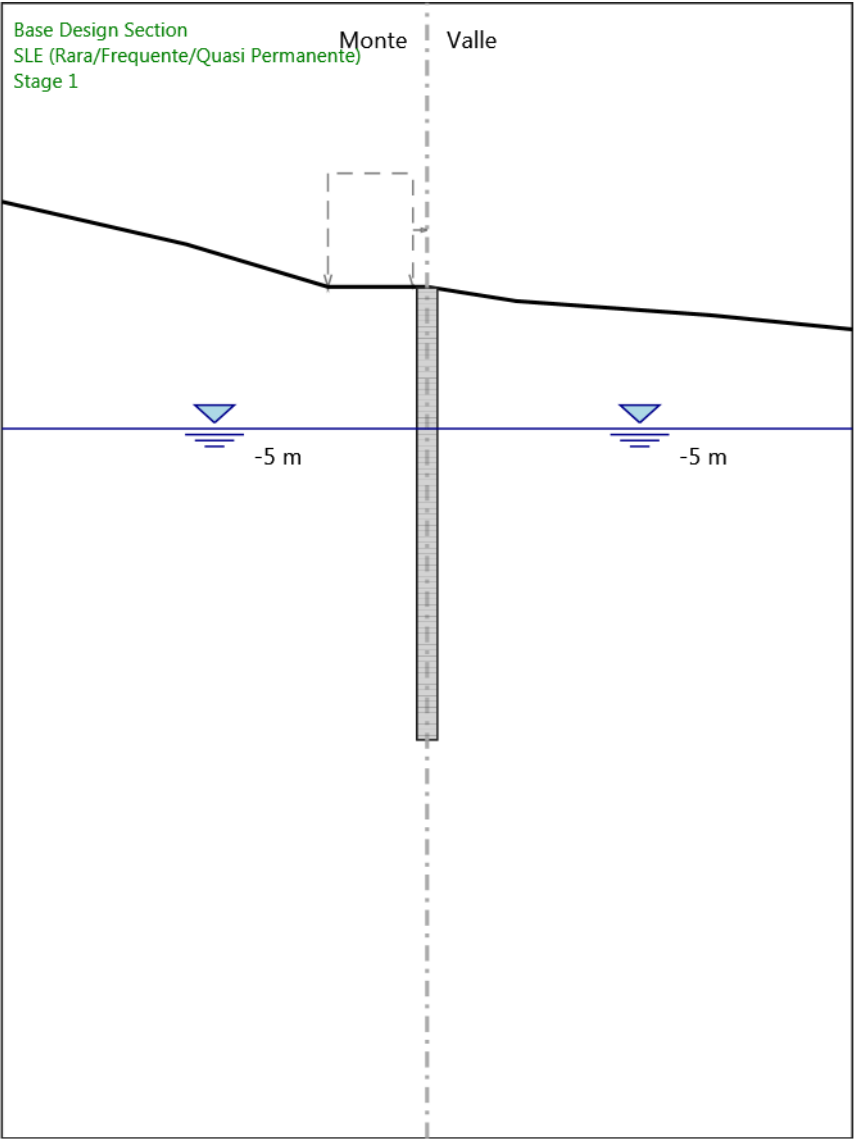
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)  
Stage: Stage 1  
Momento

Grafico Risultati Momento SLE (Rara/Frequente/Quasi Permanente) - Stage: Stage 2



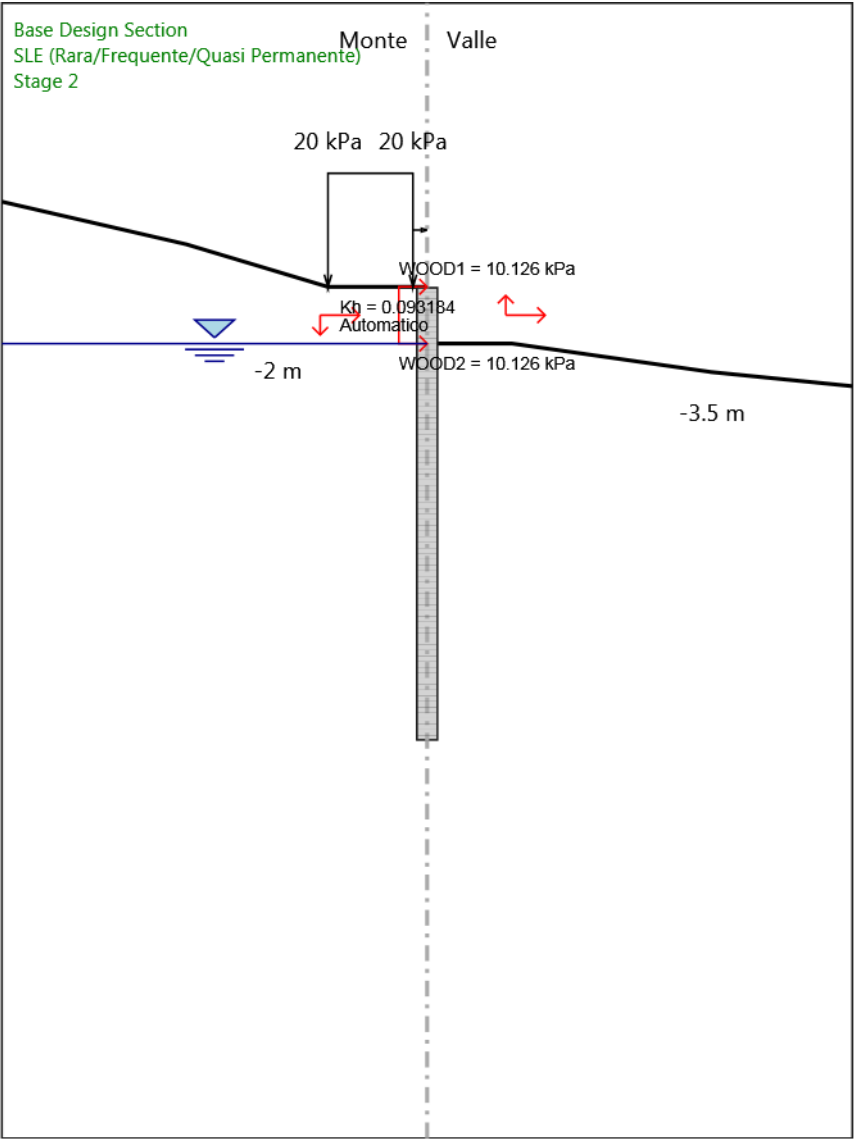
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)  
Stage: Stage 2  
Momento

Grafico Risultati Taglio SLE (Rara/Frequente/Quasi Permanente) - Stage: Stage 1



Design Assumption: SLE (Rara/Frequente/Quasi Permanente)  
Stage: Stage 1  
Taglio

Grafico Risultati Taglio SLE (Rara/Frequente/Quasi Permanente) - Stage: Stage 2



Design Assumption: SLE (Rara/Frequente/Quasi Permanente)  
Stage: Stage 2  
Taglio



## Risultati A1+M1+R1 (R3 per tiranti)

Tabella Risultati Paratia A1+M1+R1 (R3 per tiranti) - Left Wall - Stage: Stage 1

Design Assumption: A1+M1+R1 (R3 per tiranti)		Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)	
Stage 1	0	0	0	
Stage 1	-0.2	0	0	
Stage 1	-0.4	0	0	
Stage 1	-0.6	0	0	
Stage 1	-0.8	0	0	
Stage 1	-1	0	0	
Stage 1	-1.2	0	0	
Stage 1	-1.4	0	0	
Stage 1	-1.6	0	0	
Stage 1	-1.8	0	0	
Stage 1	-2	0	0	
Stage 1	-2.2	0	0	
Stage 1	-2.4	0	0	
Stage 1	-2.6	0	0	
Stage 1	-2.8	0	0	
Stage 1	-3	0	0	
Stage 1	-3.2	0	0	
Stage 1	-3.4	0	0	
Stage 1	-3.6	0	0	
Stage 1	-3.8	0	0	
Stage 1	-4	0	0	
Stage 1	-4.2	0	0	
Stage 1	-4.4	0	0	
Stage 1	-4.6	0	0	
Stage 1	-4.8	0	0	
Stage 1	-5	0	0	
Stage 1	-5.2	0	0	
Stage 1	-5.4	0	0	
Stage 1	-5.6	0	0	
Stage 1	-5.8	0	0	
Stage 1	-6	0	0	
Stage 1	-6.2	0	0	
Stage 1	-6.4	0	0	
Stage 1	-6.6	0	0	
Stage 1	-6.8	0	0	
Stage 1	-7	0	0	
Stage 1	-7.2	0	0	
Stage 1	-7.4	0	0	
Stage 1	-7.6	0	0	
Stage 1	-7.8	0	0	
Stage 1	-8	0	0	
Stage 1	-8.2	0	0	
Stage 1	-8.4	0	0	
Stage 1	-8.6	0	0	
Stage 1	-8.8	0	0	
Stage 1	-9	0	0	
Stage 1	-9.2	0	0	
Stage 1	-9.4	0	0	
Stage 1	-9.6	0	0	
Stage 1	-9.8	0	0	
Stage 1	-10	0	0	
Stage 1	-10.2	0	0	
Stage 1	-10.4	0	0	
Stage 1	-10.6	0	0	
Stage 1	-10.8	0	0	
Stage 1	-11	0	0	
Stage 1	-11.2	0	0	
Stage 1	-11.4	0	0	
Stage 1	-11.6	0	0	
Stage 1	-11.8	0	0	
Stage 1	-12	0	0	

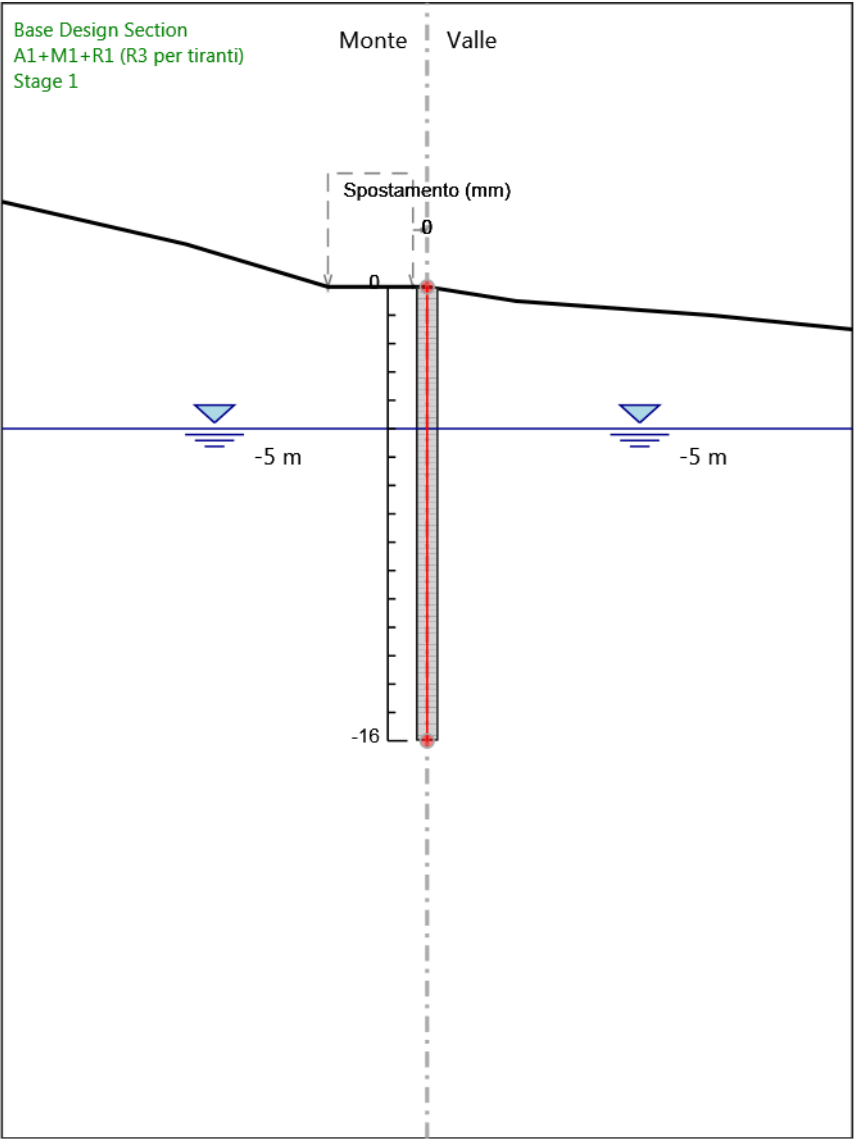
Design Assumption: A1+M1+R1 (R3 per tiranti)		Risultati Paratia	Muro: LEFT	
Stage		Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1		-12.2	0	0
Stage 1		-12.4	0	0
Stage 1		-12.6	0	0
Stage 1		-12.8	0	0
Stage 1		-13	0	0
Stage 1		-13.2	0	0
Stage 1		-13.4	0	0
Stage 1		-13.6	0	0
Stage 1		-13.8	0	0
Stage 1		-14	0	0
Stage 1		-14.2	0	0
Stage 1		-14.4	0	0
Stage 1		-14.6	0	0
Stage 1		-14.8	0	0
Stage 1		-15	0	0
Stage 1		-15.2	0	0
Stage 1		-15.4	0	0
Stage 1		-15.6	0	0
Stage 1		-15.8	0	0
Stage 1		-16	0	0

**Tabella Risultati Paratia A1+M1+R1 (R3 per tiranti) - Left Wall - Stage: Stage 2**

Design Assumption: A1+M1+R1 (R3 per tiranti)		Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)		
Stage 2	0	0	0		
Stage 2	-0.2	0	0		
Stage 2	-0.4	0	-0.02		
Stage 2	-0.6	-0.01	-0.03		
Stage 2	-0.8	-0.02	-0.05		
Stage 2	-1	-0.03	-0.06		
Stage 2	-1.2	-0.05	-0.07		
Stage 2	-1.4	-0.06	-0.08		
Stage 2	-1.6	-0.08	-0.09		
Stage 2	-1.8	-0.1	-0.1		
Stage 2	-2	-0.12	-0.11		
Stage 2	-2.2	1.29	7.07		
Stage 2	-2.4	4.21	14.59		
Stage 2	-2.6	8.65	22.2		
Stage 2	-2.8	14.62	29.88		
Stage 2	-3	20.24	28.07		
Stage 2	-3.2	25.41	25.85		
Stage 2	-3.4	30.05	23.22		
Stage 2	-3.6	34.09	20.21		
Stage 2	-3.8	37.47	16.9		
Stage 2	-4	40.22	13.75		
Stage 2	-4.2	42.4	10.89		
Stage 2	-4.4	44.06	8.28		
Stage 2	-4.6	45.24	5.92		
Stage 2	-4.8	46	3.81		
Stage 2	-5	46.39	1.93		
Stage 2	-5.2	46.44	0.26		
Stage 2	-5.4	46.2	-1.22		
Stage 2	-5.6	45.69	-2.53		
Stage 2	-5.8	44.96	-3.67		
Stage 2	-6	44.03	-4.66		
Stage 2	-6.2	42.92	-5.51		
Stage 2	-6.4	41.68	-6.24		
Stage 2	-6.6	40.31	-6.83		
Stage 2	-6.8	38.85	-7.32		
Stage 2	-7	37.31	-7.7		
Stage 2	-7.2	35.71	-7.99		
Stage 2	-7.4	34.07	-8.19		
Stage 2	-7.6	32.41	-8.31		
Stage 2	-7.8	30.74	-8.36		
Stage 2	-8	29.07	-8.34		
Stage 2	-8.2	27.42	-8.26		
Stage 2	-8.4	25.79	-8.13		
Stage 2	-8.6	24.2	-7.96		
Stage 2	-8.8	22.65	-7.75		
Stage 2	-9	21.14	-7.54		
Stage 2	-9.2	19.68	-7.31		
Stage 2	-9.4	18.27	-7.06		
Stage 2	-9.6	16.9	-6.81		
Stage 2	-9.8	15.6	-6.55		
Stage 2	-10	14.34	-6.28		
Stage 2	-10.2	13.14	-6		
Stage 2	-10.4	12	-5.72		
Stage 2	-10.6	10.91	-5.43		
Stage 2	-10.8	9.88	-5.14		
Stage 2	-11	8.91	-4.86		
Stage 2	-11.2	8	-4.57		
Stage 2	-11.4	7.14	-4.28		
Stage 2	-11.6	6.34	-4		
Stage 2	-11.8	5.6	-3.72		
Stage 2	-12	4.91	-3.44		
Stage 2	-12.2	4.27	-3.17		
Stage 2	-12.4	3.69	-2.91		
Stage 2	-12.6	3.16	-2.65		

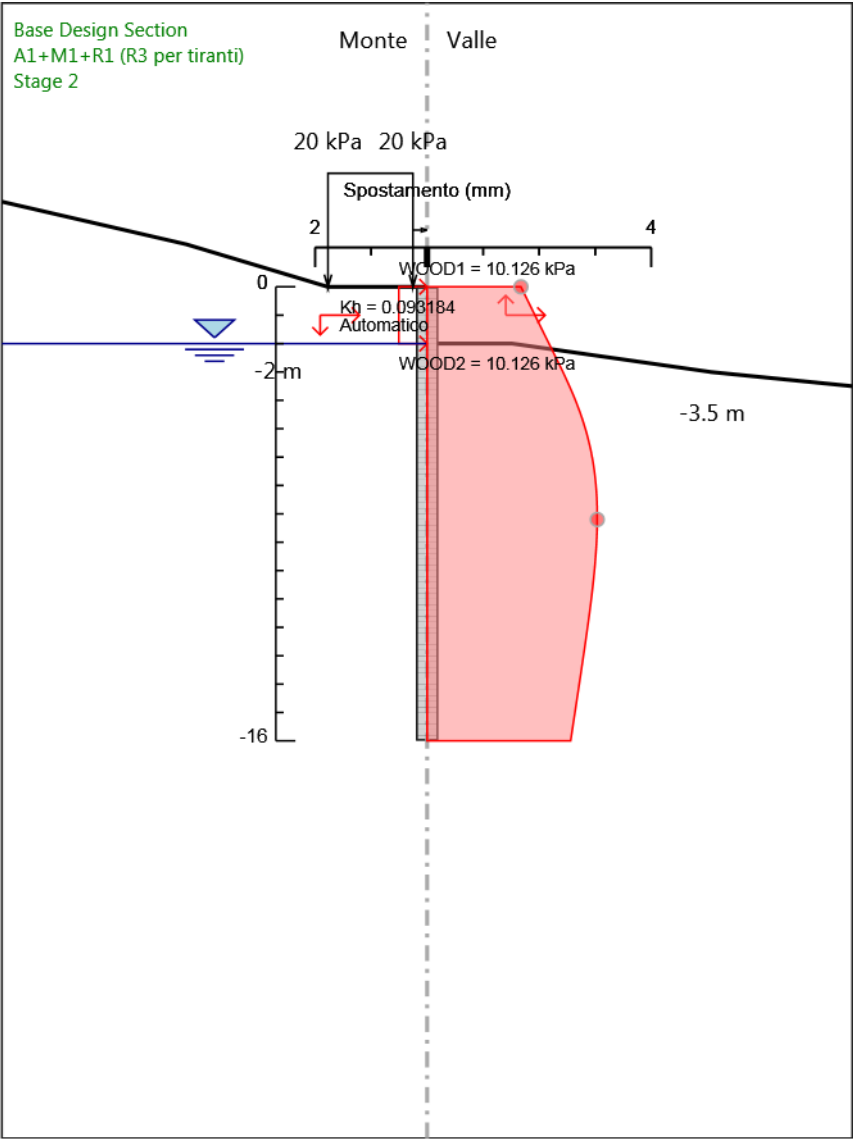
Design Assumption: A1+M1+R1 (R3 per tiranti)		Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)	
Stage 2	-12.8	2.68	-2.4	
Stage 2	-13	2.25	-2.16	
Stage 2	-13.2	1.87	-1.93	
Stage 2	-13.4	1.53	-1.71	
Stage 2	-13.6	1.23	-1.5	
Stage 2	-13.8	0.97	-1.3	
Stage 2	-14	0.74	-1.11	
Stage 2	-14.2	0.56	-0.93	
Stage 2	-14.4	0.4	-0.77	
Stage 2	-14.6	0.28	-0.62	
Stage 2	-14.8	0.18	-0.49	
Stage 2	-15	0.11	-0.36	
Stage 2	-15.2	0.06	-0.26	
Stage 2	-15.4	0.03	-0.16	
Stage 2	-15.6	0.01	-0.09	
Stage 2	-15.8	0	-0.04	
Stage 2	-16	0	0	

Grafico Spostamento A1+M1+R1 (R3 per tiranti) - Stage: Stage 1



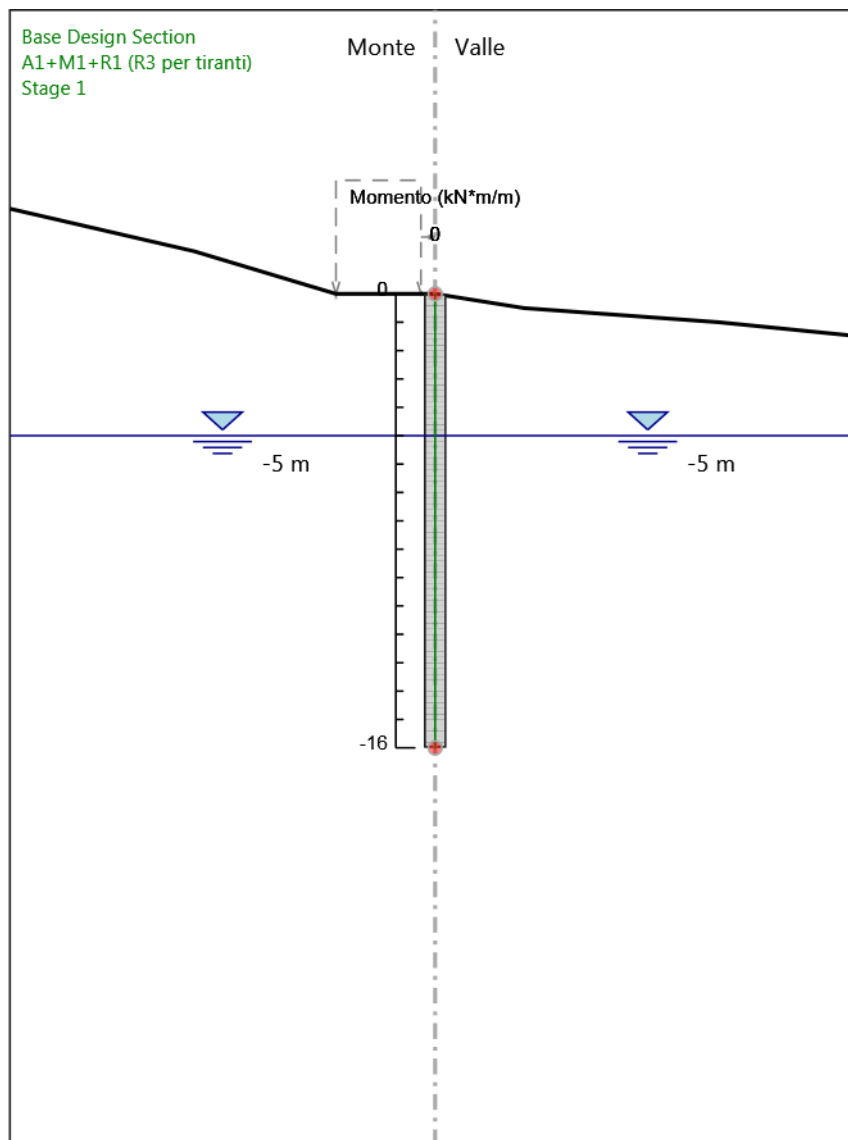
Design Assumption: A1+M1+R1 (R3 per tiranti)  
Stage: Stage 1  
Spostamento

Grafico Spostamento A1+M1+R1 (R3 per tiranti) - Stage: Stage 2



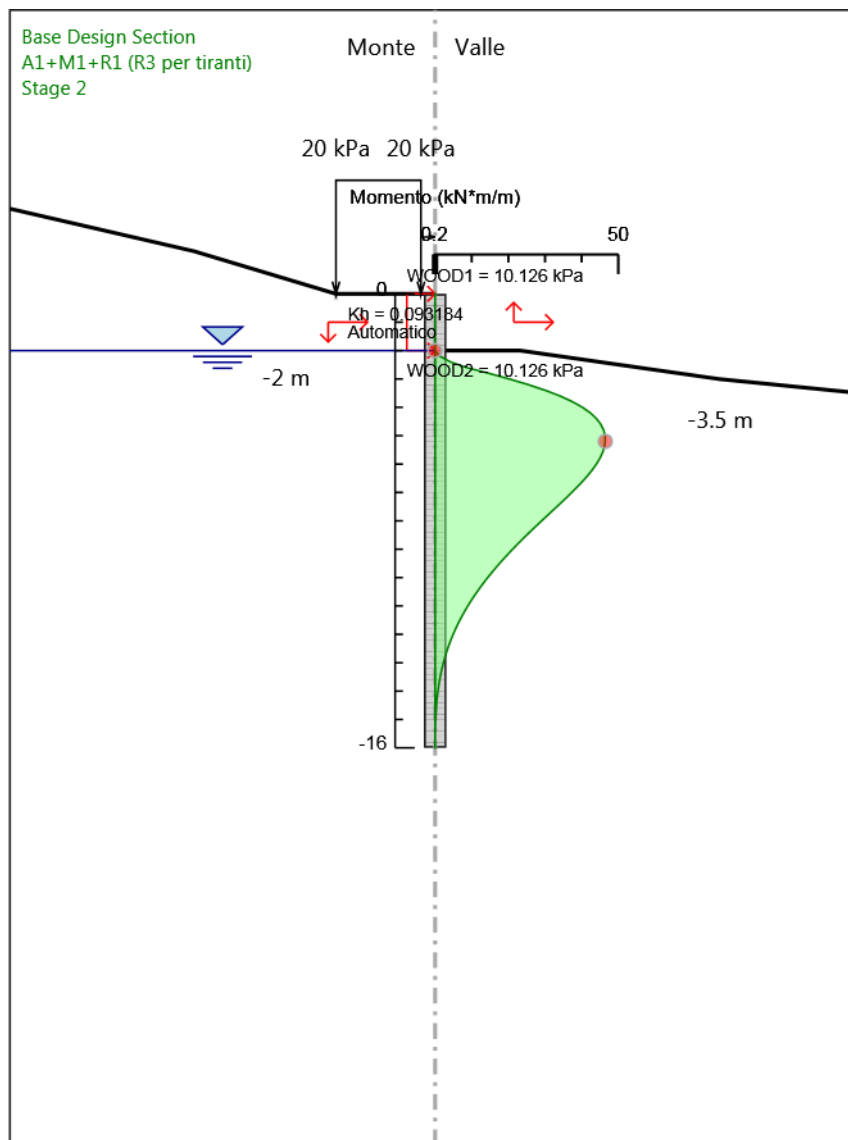
Design Assumption: A1+M1+R1 (R3 per tiranti)  
Stage: Stage 2  
Spostamento

## Grafico Risultati Momento A1+M1+R1 (R3 per tiranti) - Stage: Stage 1



Design Assumption: A1+M1+R1 (R3 per tiranti)  
Stage: Stage 1  
Momento

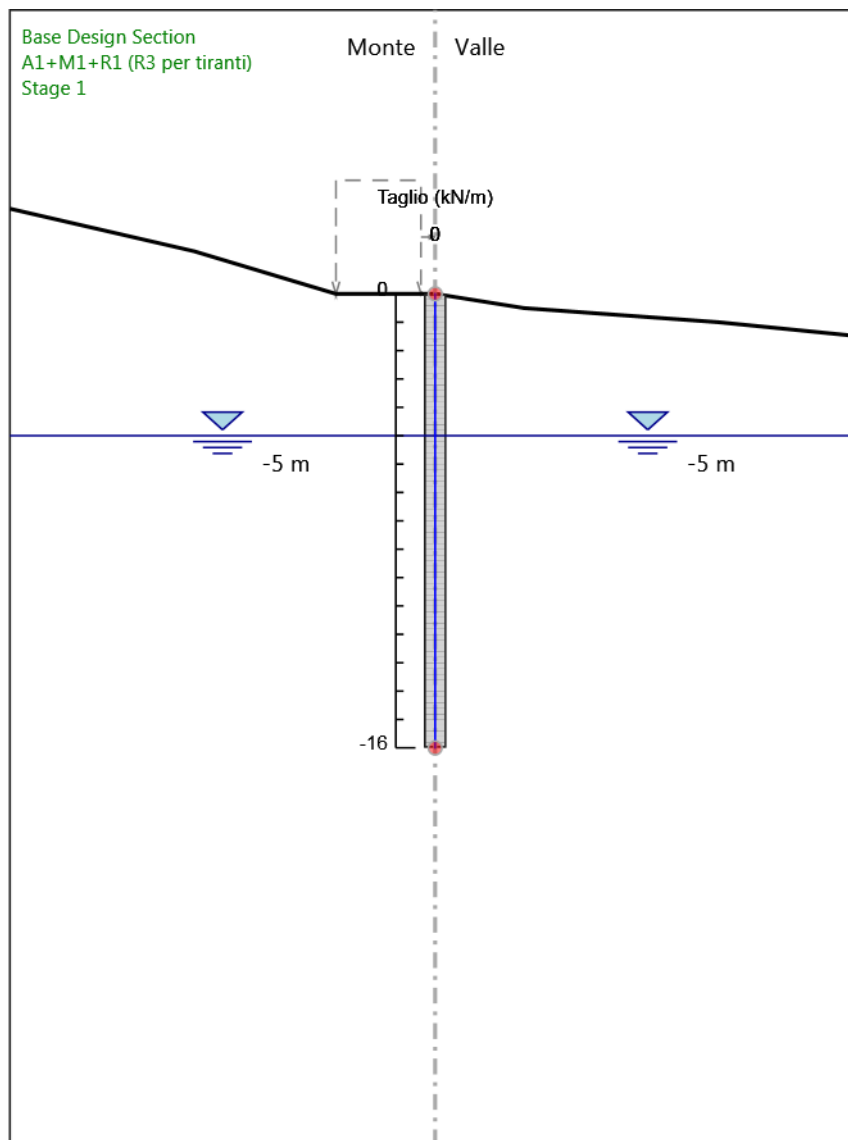
## Grafico Risultati Momento A1+M1+R1 (R3 per tiranti) - Stage: Stage 2



Design Assumption: A1+M1+R1 (R3 per tiranti)  
Stage: Stage 2  
Momento

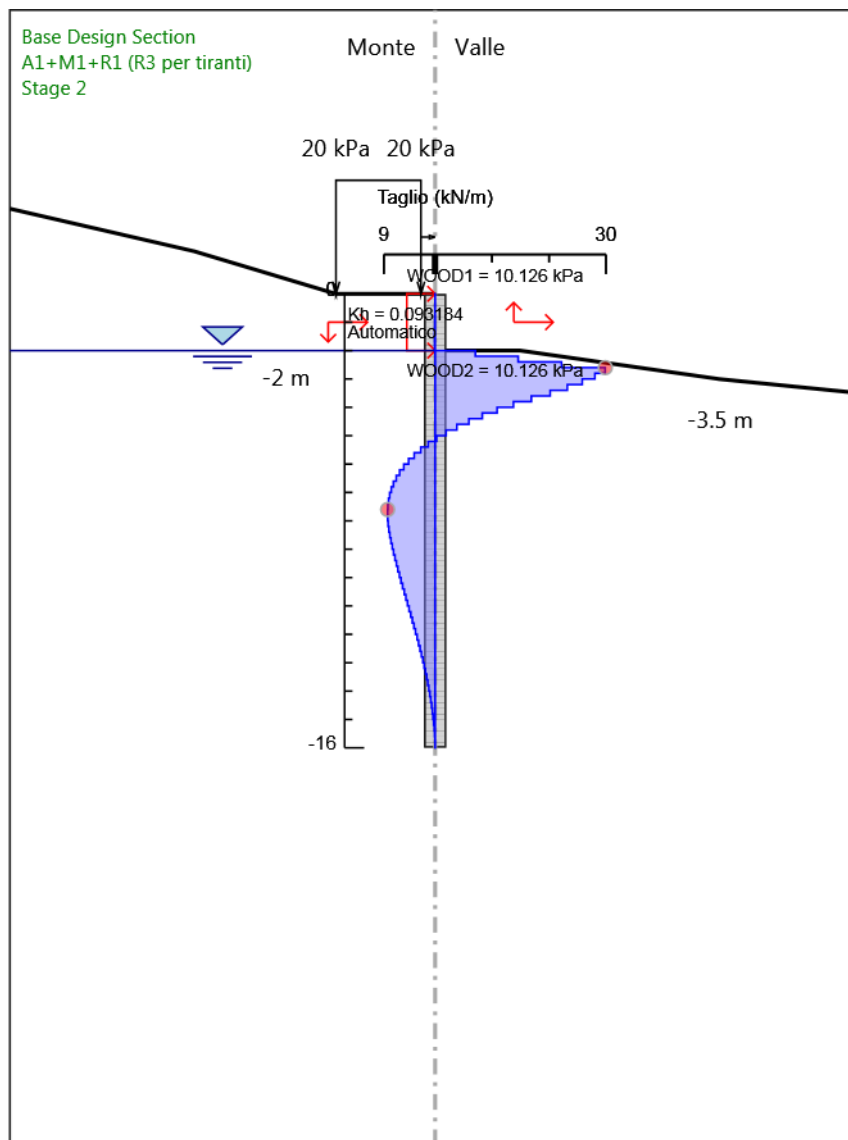


## Grafico Risultati Taglio A1+M1+R1 (R3 per tiranti) - Stage: Stage 1



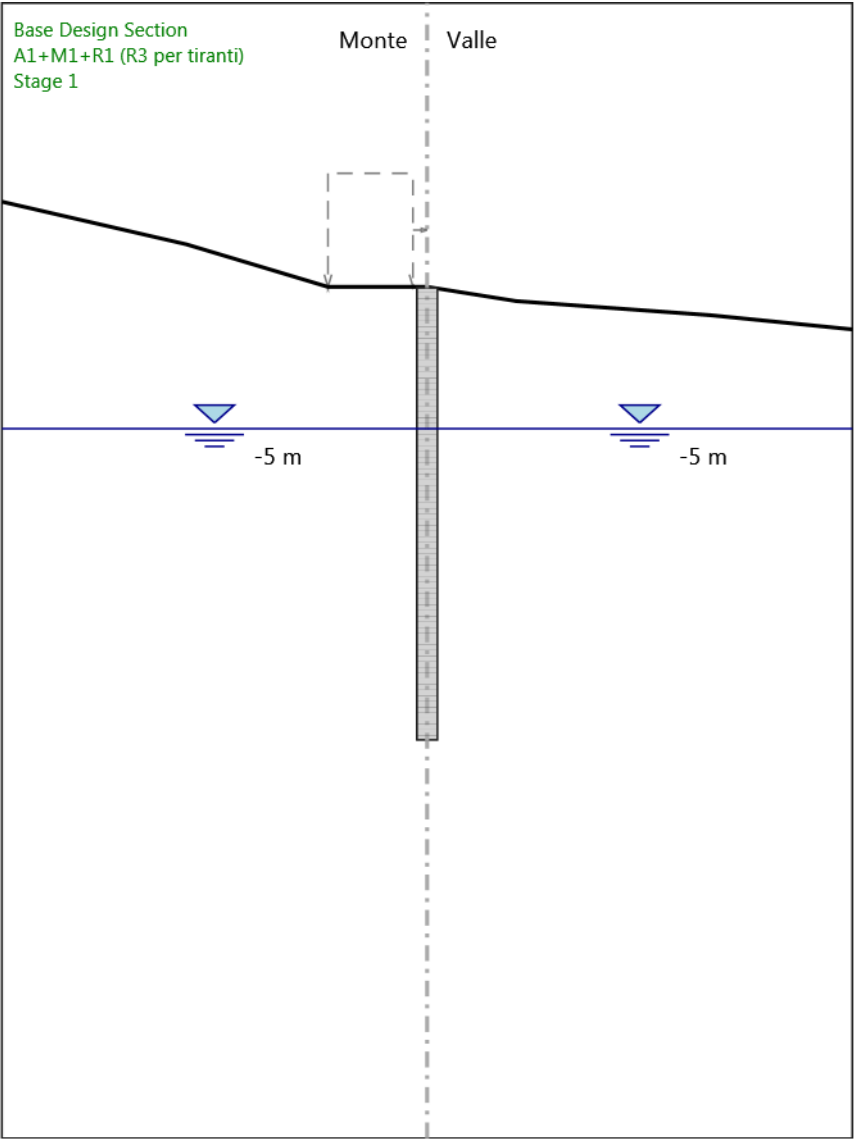
Design Assumption: A1+M1+R1 (R3 per tiranti)  
Stage: Stage 1  
Taglio

## Grafico Risultati Taglio A1+M1+R1 (R3 per tiranti) - Stage: Stage 2



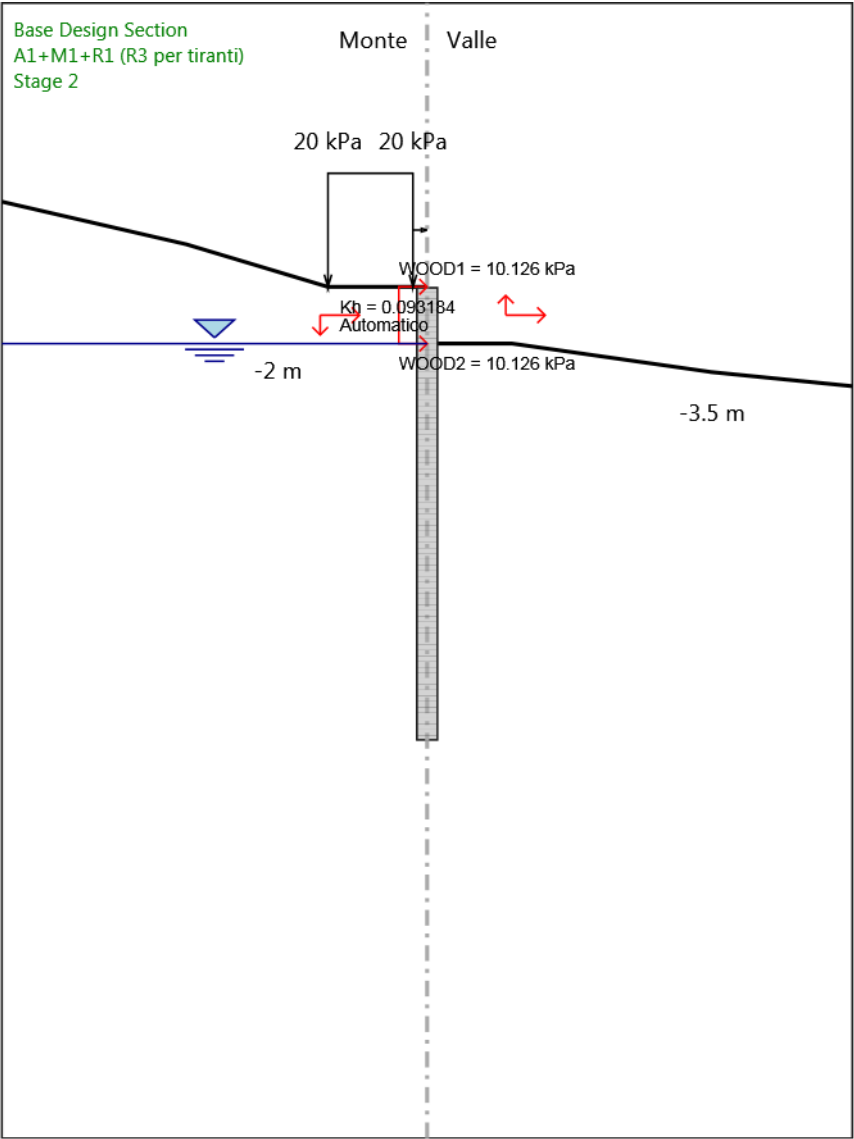
Design Assumption: A1+M1+R1 (R3 per tiranti)  
Stage: Stage 2  
Taglio

**Grafico Risultati Momento A1+M1+R1 (R3 per tiranti) - Stage: Stage 1**



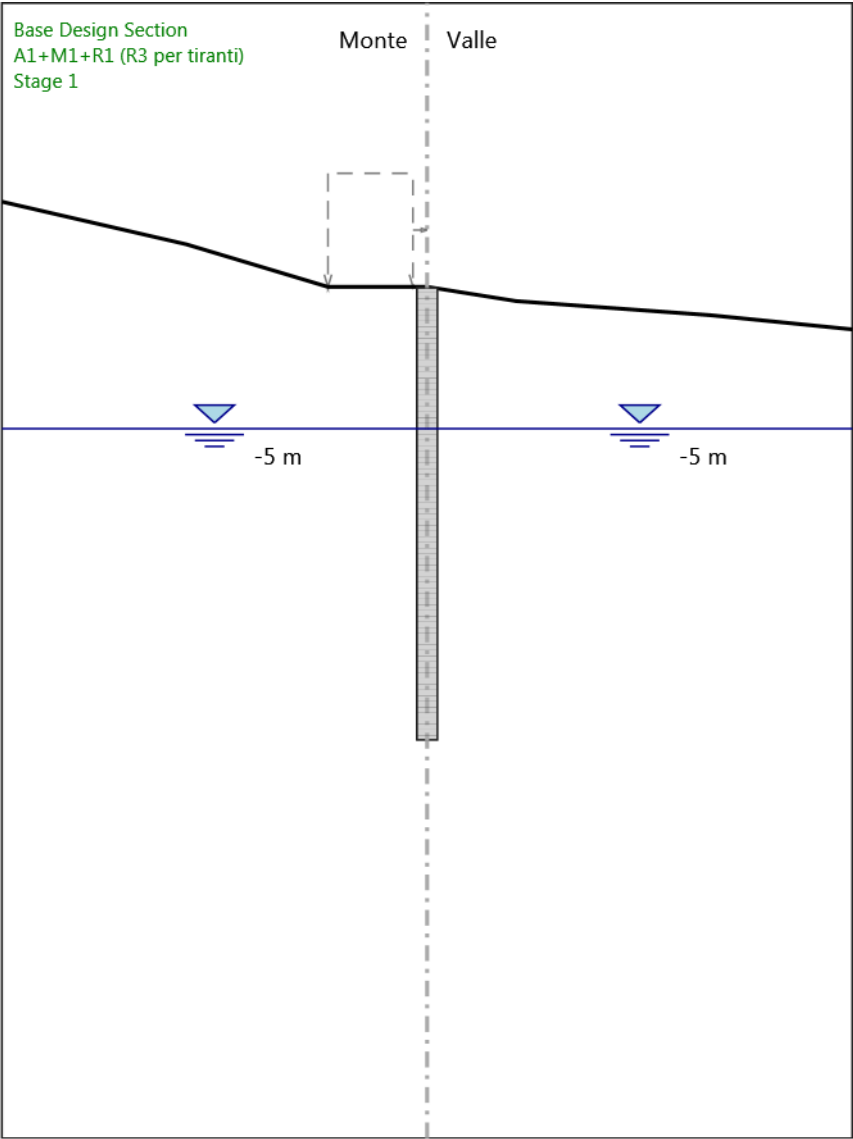
Design Assumption: A1+M1+R1 (R3 per tiranti)  
Stage: Stage 1  
Momento

Grafico Risultati Momento A1+M1+R1 (R3 per tiranti) - Stage: Stage 2



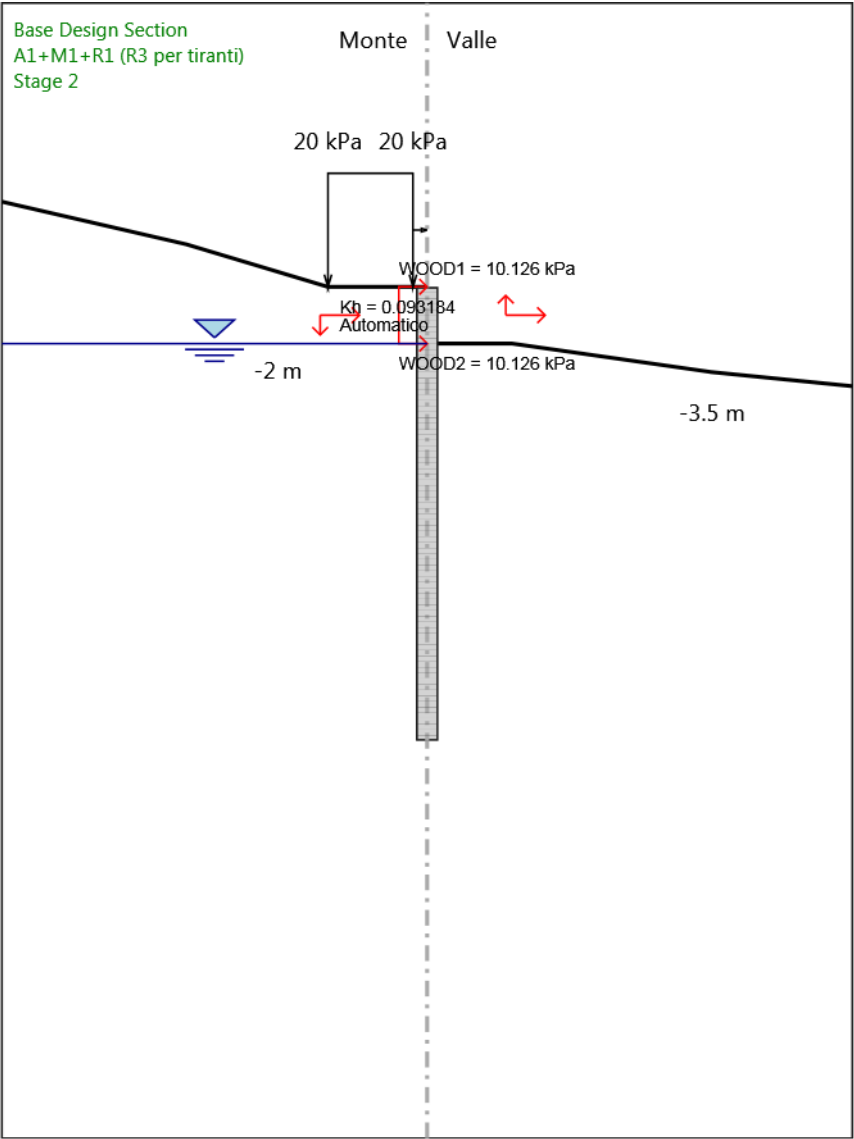
Design Assumption: A1+M1+R1 (R3 per tiranti)  
Stage: Stage 2  
Momento

Grafico Risultati Taglio A1+M1+R1 (R3 per tiranti) - Stage: Stage 1



Design Assumption: A1+M1+R1 (R3 per tiranti)  
Stage: Stage 1  
Taglio

Grafico Risultati Taglio A1+M1+R1 (R3 per tiranti) - Stage: Stage 2



Design Assumption: A1+M1+R1 (R3 per tiranti)  
Stage: Stage 2  
Taglio

## Risultati A2+M2+R1

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

Design Assumption: A2+M2+R1	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	0	0	0
Stage 1	-0.2	0	0
Stage 1	-0.4	0	0
Stage 1	-0.6	0	0
Stage 1	-0.8	0	0
Stage 1	-1	0	0
Stage 1	-1.2	0	0
Stage 1	-1.4	0	0
Stage 1	-1.6	0	0
Stage 1	-1.8	0	0
Stage 1	-2	0	0
Stage 1	-2.2	0	0
Stage 1	-2.4	0	0
Stage 1	-2.6	0	0
Stage 1	-2.8	0	0
Stage 1	-3	0	0
Stage 1	-3.2	0	0
Stage 1	-3.4	0	0
Stage 1	-3.6	0	0
Stage 1	-3.8	0	0
Stage 1	-4	0	0
Stage 1	-4.2	0	0
Stage 1	-4.4	0	0
Stage 1	-4.6	0	0
Stage 1	-4.8	0	0
Stage 1	-5	0	0
Stage 1	-5.2	0	0
Stage 1	-5.4	0	0
Stage 1	-5.6	0	0
Stage 1	-5.8	0	0
Stage 1	-6	0	0
Stage 1	-6.2	0	0
Stage 1	-6.4	0	0
Stage 1	-6.6	0	0
Stage 1	-6.8	0	0
Stage 1	-7	0	0
Stage 1	-7.2	0	0
Stage 1	-7.4	0	0
Stage 1	-7.6	0	0
Stage 1	-7.8	0	0
Stage 1	-8	0	0
Stage 1	-8.2	0	0
Stage 1	-8.4	0	0
Stage 1	-8.6	0	0
Stage 1	-8.8	0	0
Stage 1	-9	0	0
Stage 1	-9.2	0	0
Stage 1	-9.4	0	0
Stage 1	-9.6	0	0
Stage 1	-9.8	0	0
Stage 1	-10	0	0
Stage 1	-10.2	0	0
Stage 1	-10.4	0	0
Stage 1	-10.6	0	0
Stage 1	-10.8	0	0
Stage 1	-11	0	0
Stage 1	-11.2	0	0
Stage 1	-11.4	0	0
Stage 1	-11.6	0	0
Stage 1	-11.8	0	0
Stage 1	-12	0	0
Stage 1	-12.2	0	0

Design Assumption: A2+M2+R1		Risultati Paratia	Muro: LEFT	
Stage	Z (m)		Momento (kN*m/m)	Taglio (kN/m)
Stage 1	-12.4		0	0
Stage 1	-12.6		0	0
Stage 1	-12.8		0	0
Stage 1	-13		0	0
Stage 1	-13.2		0	0
Stage 1	-13.4		0	0
Stage 1	-13.6		0	0
Stage 1	-13.8		0	0
Stage 1	-14		0	0
Stage 1	-14.2		0	0
Stage 1	-14.4		0	0
Stage 1	-14.6		0	0
Stage 1	-14.8		0	0
Stage 1	-15		0	0
Stage 1	-15.2		0	0
Stage 1	-15.4		0	0
Stage 1	-15.6		0	0
Stage 1	-15.8		0	0
Stage 1	-16		0	0

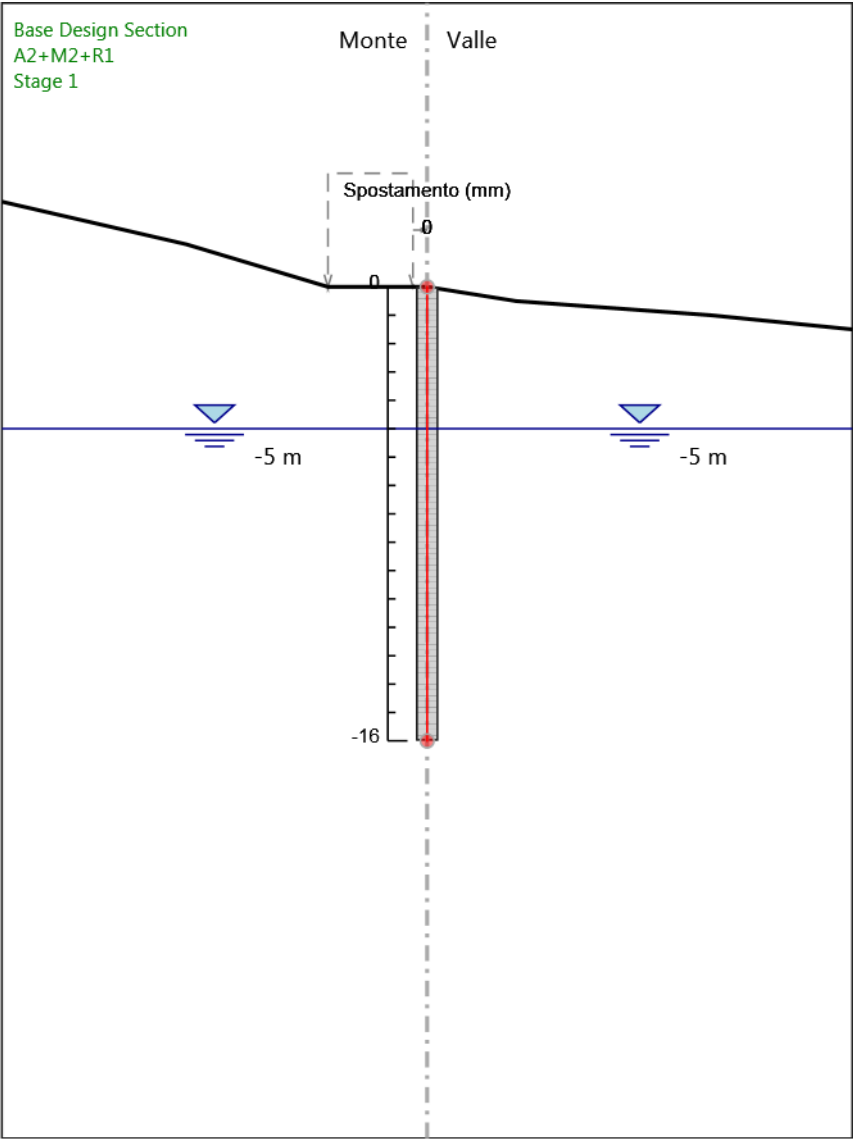


**Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage 2**

Design Assumption: A2+M2+R1	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	0	0	0
Stage 2	-0.2	0	0
Stage 2	-0.2	0	0
Stage 2	-0.4	0	0
Stage 2	-0.4	0	0
Stage 2	-0.6	0	0
Stage 2	-0.6	0	0
Stage 2	-0.8	0	0
Stage 2	-0.8	0	0
Stage 2	-1	0	0
Stage 2	-1	0	0
Stage 2	-1.2	0	0
Stage 2	-1.2	0	0
Stage 2	-1.4	0	0
Stage 2	-1.4	0	0
Stage 2	-1.6	0	0
Stage 2	-1.6	0	0
Stage 2	-1.8	0	0
Stage 2	-1.8	0	0
Stage 2	-2	0	0
Stage 2	-2	0	0
Stage 2	-2.2	1.28	6.39
Stage 2	-2.4	3.89	13.08
Stage 2	-2.6	7.87	19.87
Stage 2	-2.8	13.21	26.73
Stage 2	-3	18.01	23.96
Stage 2	-3.2	22.3	21.49
Stage 2	-3.4	26.17	19.32
Stage 2	-3.6	29.54	16.86
Stage 2	-3.8	32.37	14.14
Stage 2	-4	34.68	11.55
Stage 2	-4.2	36.51	9.17
Stage 2	-4.4	37.91	6.99
Stage 2	-4.6	38.91	5
Stage 2	-4.8	39.54	3.18
Stage 2	-5	39.85	1.53
Stage 2	-5.2	39.86	0.04
Stage 2	-5.4	39.6	-1.29
Stage 2	-5.6	39.1	-2.48
Stage 2	-5.8	38.4	-3.52
Stage 2	-6	37.51	-4.43
Stage 2	-6.2	36.47	-5.23
Stage 2	-6.4	35.29	-5.91
Stage 2	-6.6	33.99	-6.48
Stage 2	-6.8	32.6	-6.96
Stage 2	-7	31.13	-7.35
Stage 2	-7.2	29.59	-7.66
Stage 2	-7.4	28.02	-7.89
Stage 2	-7.6	26.4	-8.06
Stage 2	-7.8	24.77	-8.16
Stage 2	-8	23.13	-8.2
Stage 2	-8.2	21.49	-8.19
Stage 2	-8.4	19.87	-8.14
Stage 2	-8.6	18.26	-8.04
Stage 2	-8.8	16.68	-7.9
Stage 2	-9	15.13	-7.73
Stage 2	-9.2	13.63	-7.53
Stage 2	-9.4	12.17	-7.3
Stage 2	-9.6	10.76	-7.05
Stage 2	-9.8	9.4	-6.78
Stage 2	-10	8.1	-6.49
Stage 2	-10.2	6.86	-6.19
Stage 2	-10.4	5.69	-5.87
Stage 2	-10.6	4.58	-5.54
Stage 2	-10.8	3.54	-5.21

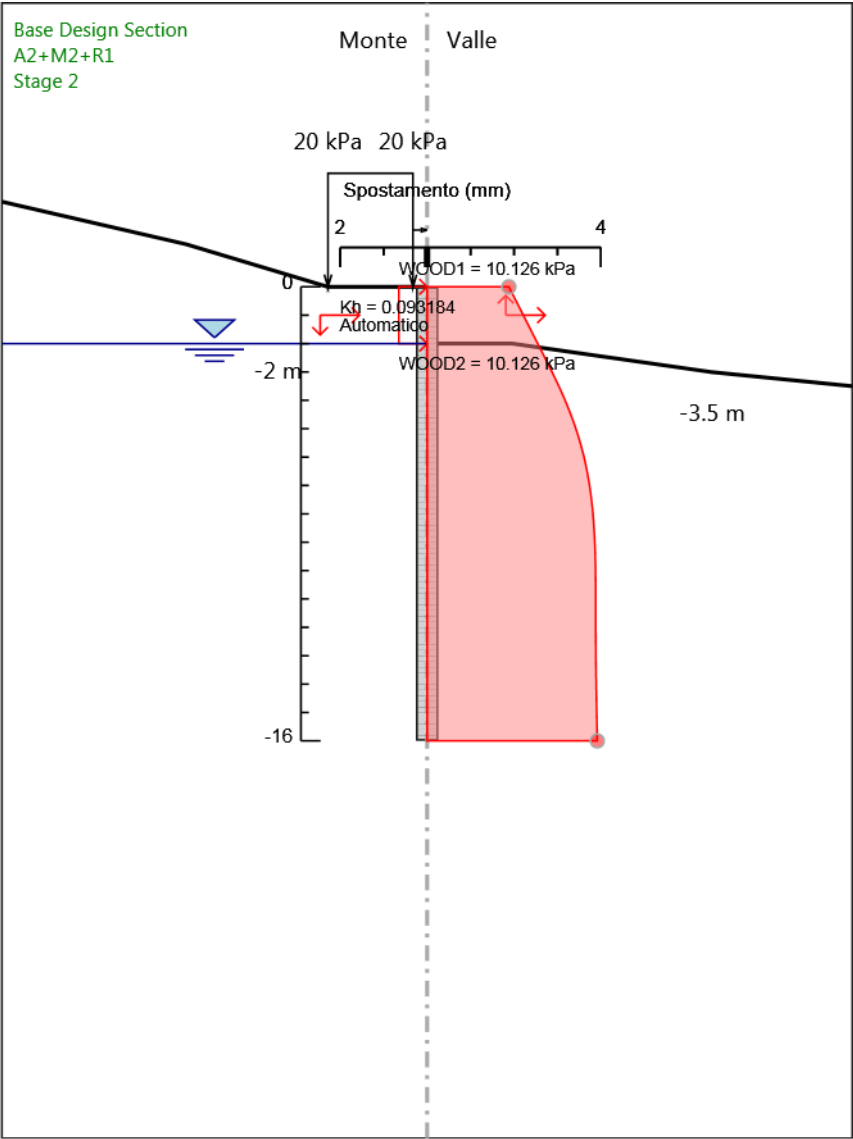
Design Assumption: A2+M2+R1	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	-11	2.57	-4.86
Stage 2	-11.2	1.67	-4.5
Stage 2	-11.4	0.84	-4.14
Stage 2	-11.6	0.08	-3.77
Stage 2	-11.8	-0.6	-3.4
Stage 2	-12	-1.2	-3.02
Stage 2	-12.2	-1.73	-2.64
Stage 2	-12.4	-2.18	-2.25
Stage 2	-12.6	-2.55	-1.85
Stage 2	-12.8	-2.84	-1.45
Stage 2	-13	-3.05	-1.05
Stage 2	-13.2	-3.18	-0.64
Stage 2	-13.4	-3.22	-0.23
Stage 2	-13.6	-3.19	0.19
Stage 2	-13.8	-3.06	0.61
Stage 2	-14	-2.86	1.04
Stage 2	-14.2	-2.58	1.4
Stage 2	-14.4	-2.24	1.66
Stage 2	-14.6	-1.88	1.83
Stage 2	-14.8	-1.5	1.9
Stage 2	-15	-1.12	1.87
Stage 2	-15.2	-0.77	1.75
Stage 2	-15.4	-0.47	1.54
Stage 2	-15.6	-0.22	1.22
Stage 2	-15.8	-0.06	0.81
Stage 2	-16	0	0.3

Grafico Spostamento A2+M2+R1 - Stage: Stage 1



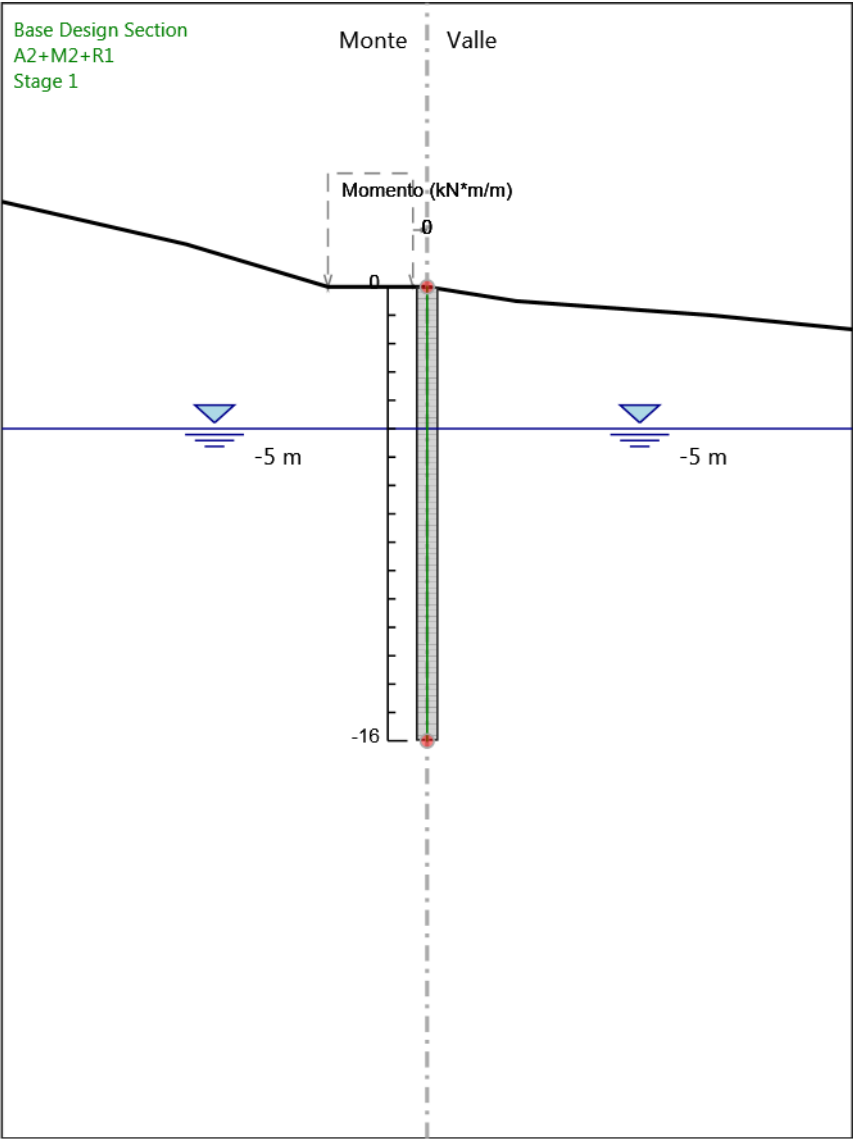
Design Assumption: A2+M2+R1  
Stage: Stage 1  
Spostamento

Grafico Spostamento A2+M2+R1 - Stage: Stage 2



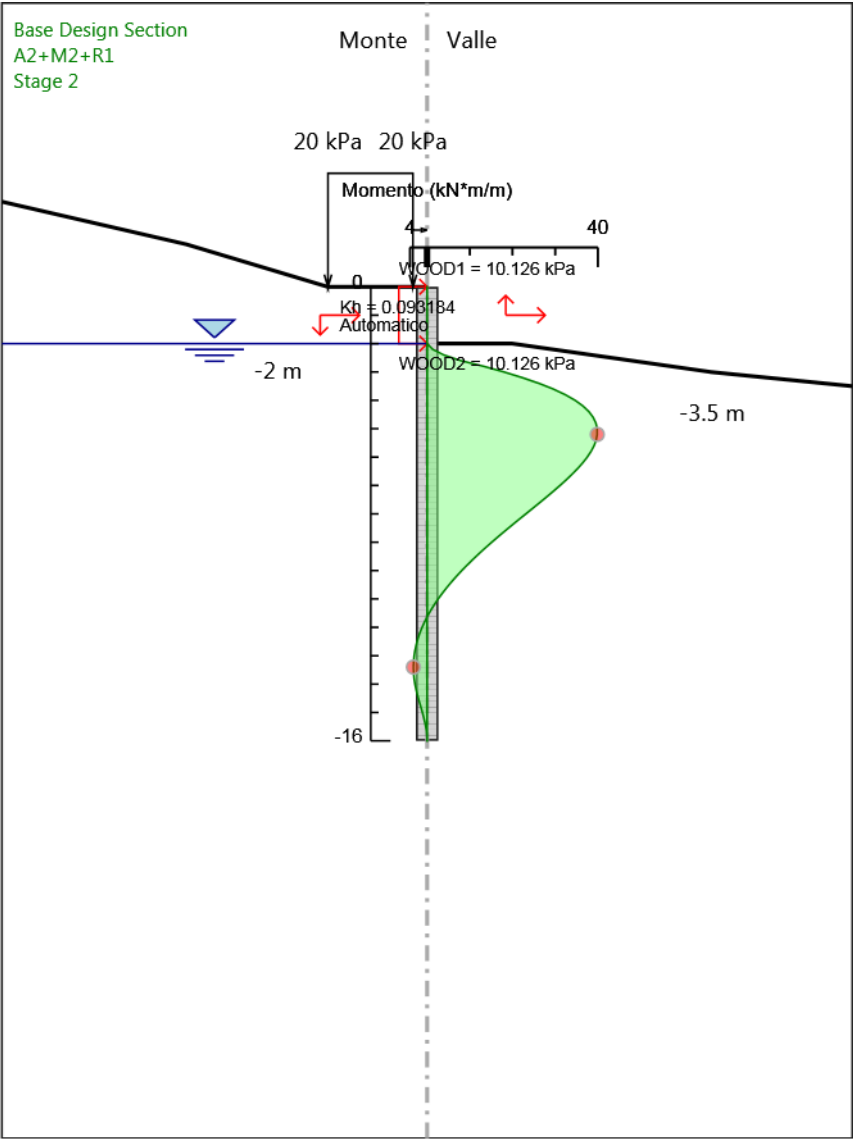
Design Assumption: A2+M2+R1  
Stage: Stage 2  
Spostamento

Grafico Risultati Momento A2+M2+R1 - Stage: Stage 1



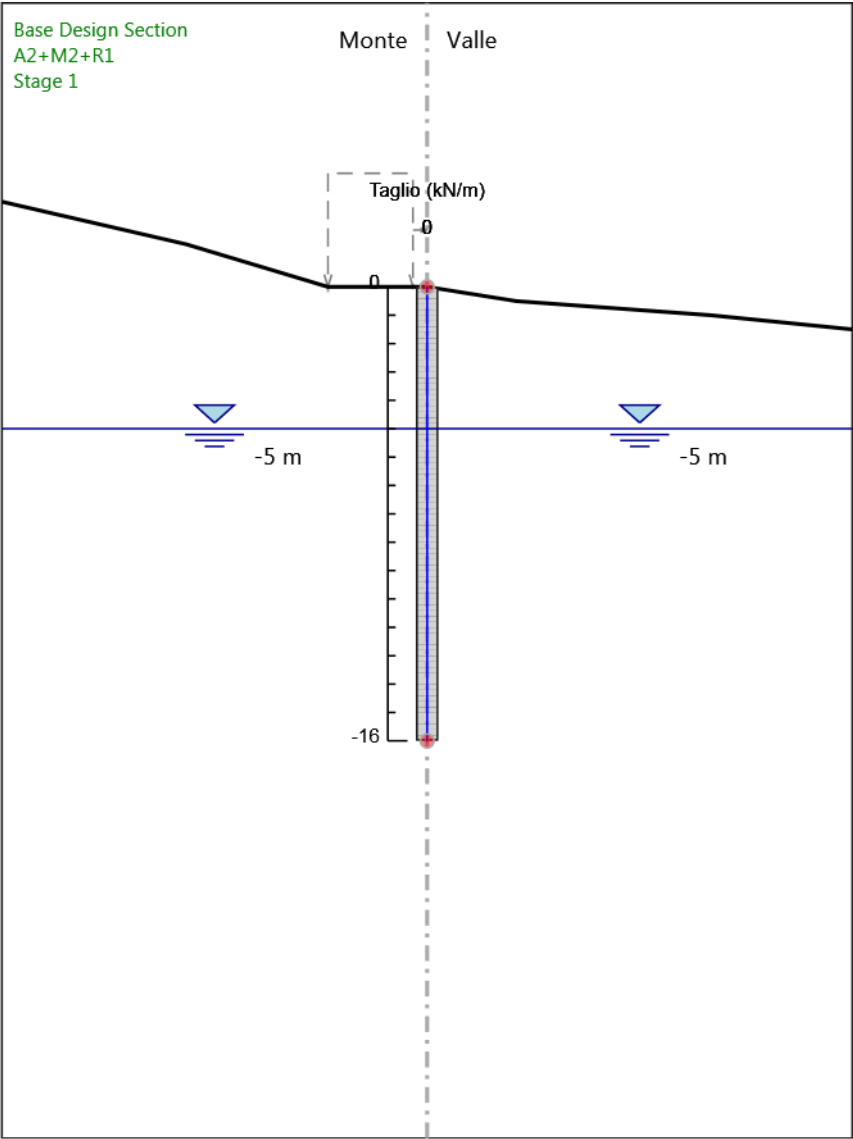
Design Assumption: A2+M2+R1  
Stage: Stage 1  
Momento

Grafico Risultati Momento A2+M2+R1 - Stage: Stage 2



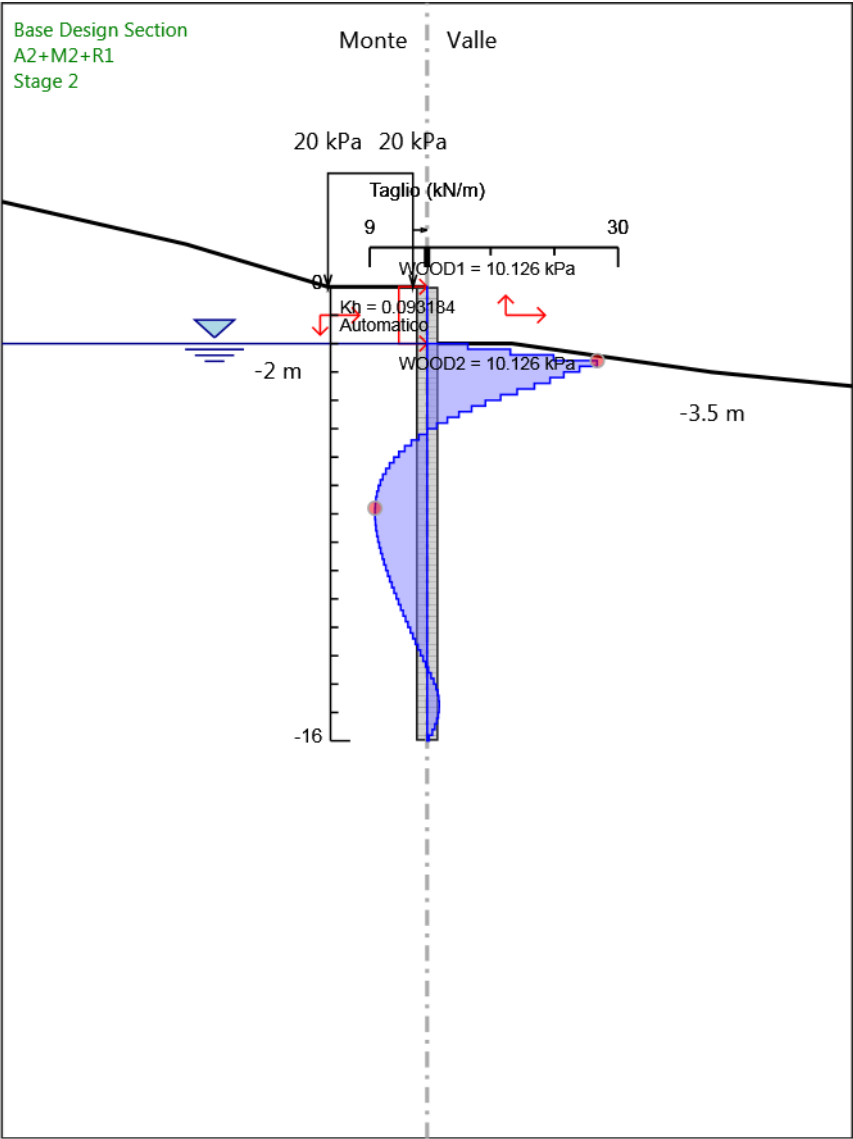
Design Assumption: A2+M2+R1  
Stage: Stage 2  
Momento

Grafico Risultati Taglio A2+M2+R1 - Stage: Stage 1



Design Assumption: A2+M2+R1  
Stage: Stage 1  
Taglio

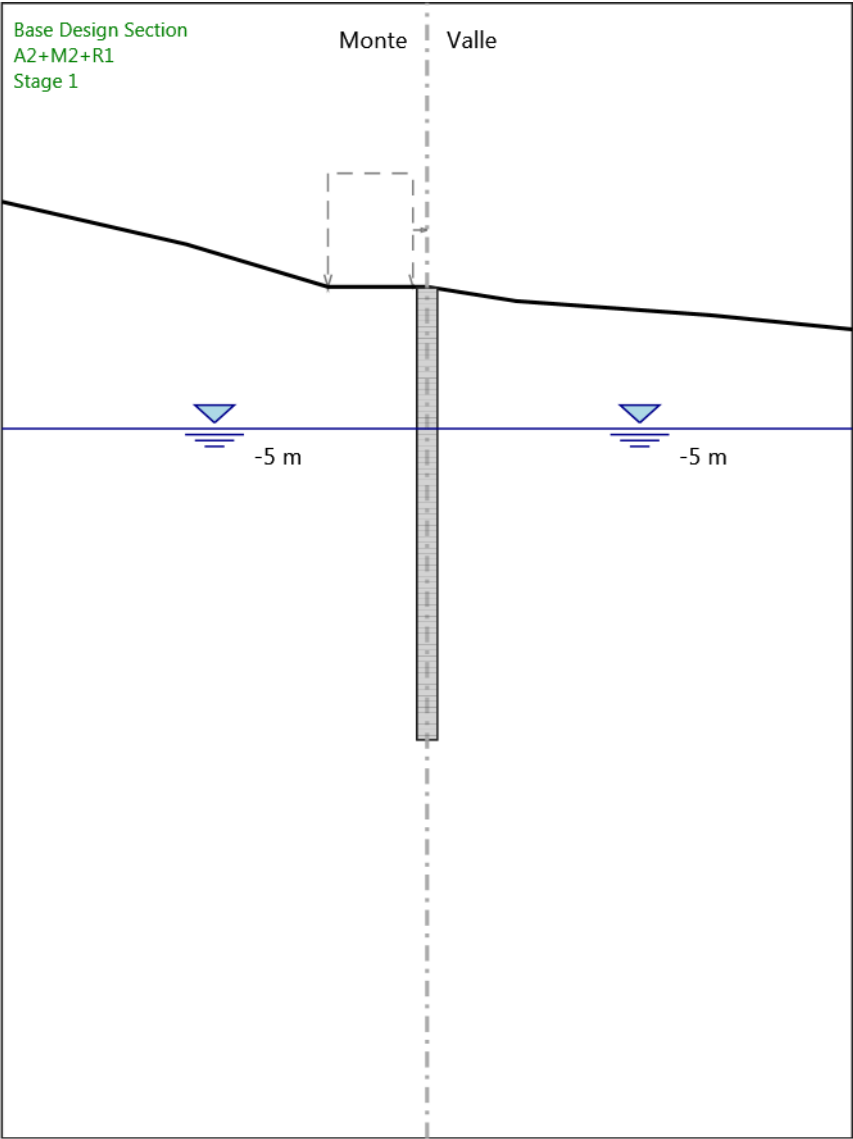
Grafico Risultati Taglio A2+M2+R1 - Stage: Stage 2



Design Assumption: A2+M2+R1  
Stage: Stage 2  
Taglio

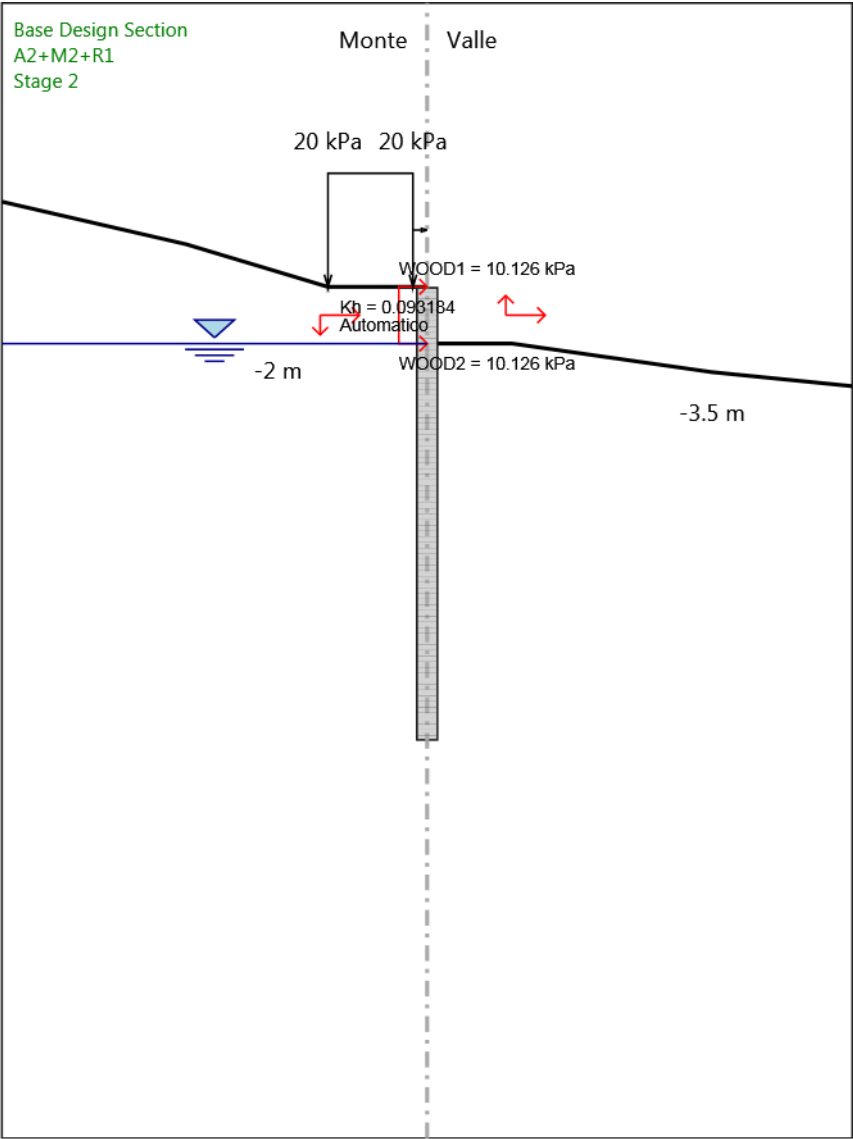


Grafico Risultati Momento A2+M2+R1 - Stage: Stage 1



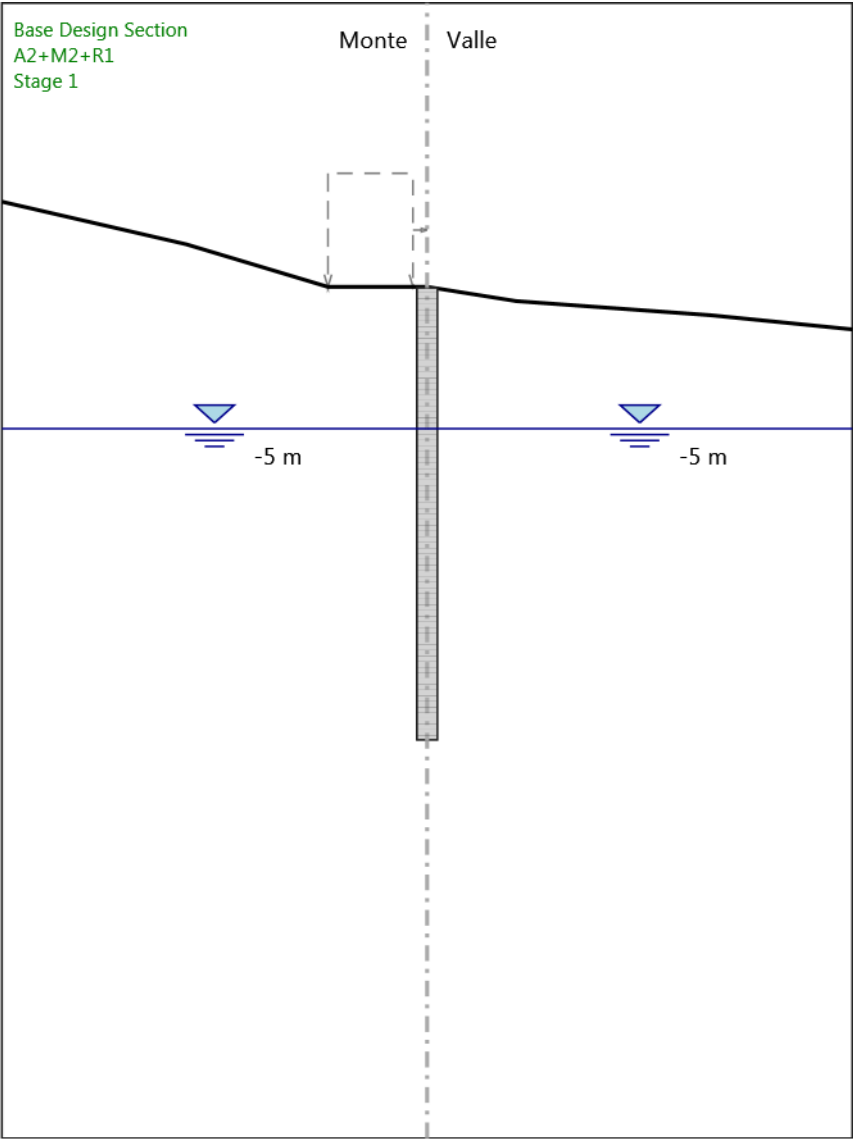
Design Assumption: A2+M2+R1  
Stage: Stage 1  
Momento

Grafico Risultati Momento A2+M2+R1 - Stage: Stage 2



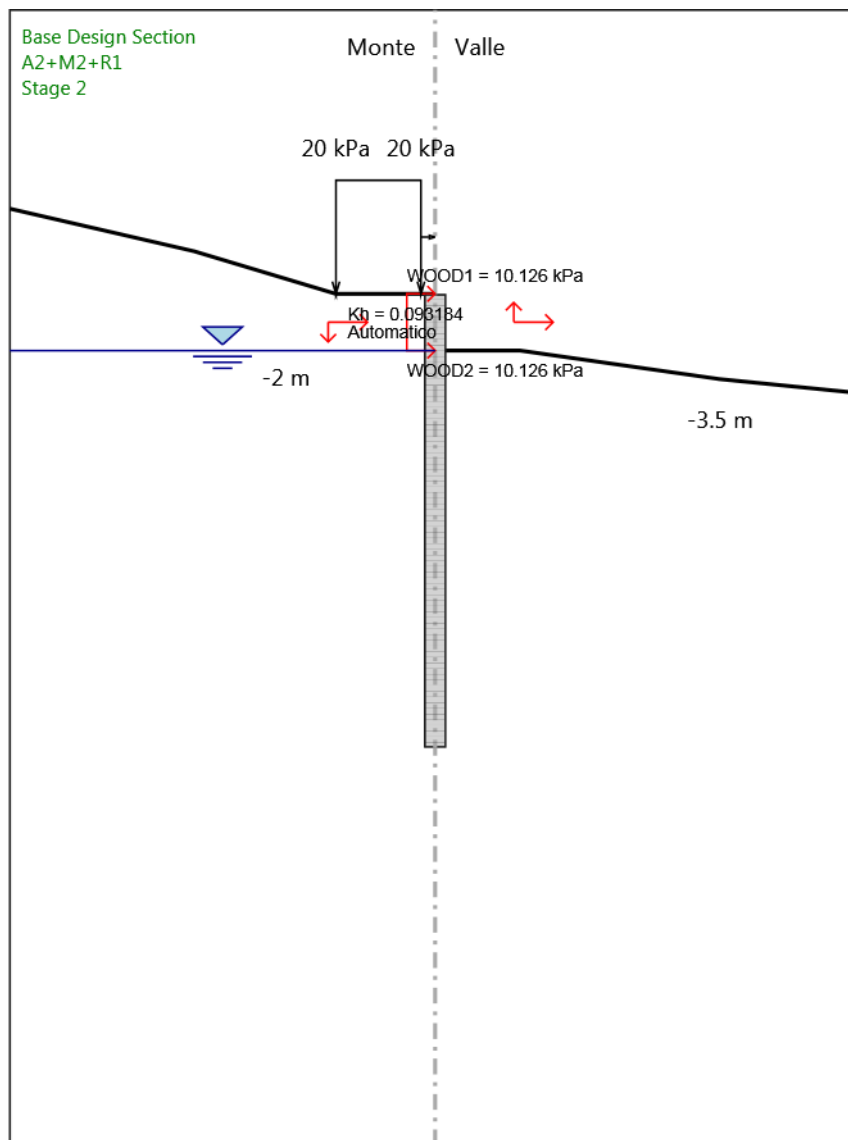
Design Assumption: A2+M2+R1  
Stage: Stage 2  
Momento

Grafico Risultati Taglio A2+M2+R1 - Stage: Stage 1



Design Assumption: A2+M2+R1  
Stage: Stage 1  
Taglio

### Grafico Risultati Taglio A2+M2+R1 - Stage: Stage 2



Design Assumption: A2+M2+R1  
Stage: Stage 2  
Taglio

## Risultati SISMICA STR

Tabella Risultati Paratia SISMICA STR - Left Wall - Stage: Stage 1

Design Assumption: SISMICA STR	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	0	0	0
Stage 1	-0.2	0	0
Stage 1	-0.4	0	0
Stage 1	-0.6	0	0
Stage 1	-0.8	0	0
Stage 1	-1	0	0
Stage 1	-1.2	0	0
Stage 1	-1.4	0	0
Stage 1	-1.6	0	0
Stage 1	-1.8	0	0
Stage 1	-2	0	0
Stage 1	-2.2	0	0
Stage 1	-2.4	0	0
Stage 1	-2.6	0	0
Stage 1	-2.8	0	0
Stage 1	-3	0	0
Stage 1	-3.2	0	0
Stage 1	-3.4	0	0
Stage 1	-3.6	0	0
Stage 1	-3.8	0	0
Stage 1	-4	0	0
Stage 1	-4.2	0	0
Stage 1	-4.4	0	0
Stage 1	-4.6	0	0
Stage 1	-4.8	0	0
Stage 1	-5	0	0
Stage 1	-5.2	0	0
Stage 1	-5.4	0	0
Stage 1	-5.6	0	0
Stage 1	-5.8	0	0
Stage 1	-6	0	0
Stage 1	-6.2	0	0
Stage 1	-6.4	0	0
Stage 1	-6.6	0	0
Stage 1	-6.8	0	0
Stage 1	-7	0	0
Stage 1	-7.2	0	0
Stage 1	-7.4	0	0
Stage 1	-7.6	0	0
Stage 1	-7.8	0	0
Stage 1	-8	0	0
Stage 1	-8.2	0	0
Stage 1	-8.4	0	0
Stage 1	-8.6	0	0
Stage 1	-8.8	0	0
Stage 1	-9	0	0
Stage 1	-9.2	0	0
Stage 1	-9.4	0	0
Stage 1	-9.6	0	0
Stage 1	-9.8	0	0
Stage 1	-10	0	0
Stage 1	-10.2	0	0
Stage 1	-10.4	0	0
Stage 1	-10.6	0	0
Stage 1	-10.8	0	0
Stage 1	-11	0	0
Stage 1	-11.2	0	0
Stage 1	-11.4	0	0
Stage 1	-11.6	0	0
Stage 1	-11.8	0	0
Stage 1	-12	0	0
Stage 1	-12.2	0	0

Design Assumption: SISMICA STR		Risultati Paratia	Muro: LEFT	
Stage	Z (m)		Momento (kN*m/m)	Taglio (kN/m)
Stage 1	-12.4		0	0
Stage 1	-12.6		0	0
Stage 1	-12.8		0	0
Stage 1	-13		0	0
Stage 1	-13.2		0	0
Stage 1	-13.4		0	0
Stage 1	-13.6		0	0
Stage 1	-13.8		0	0
Stage 1	-14		0	0
Stage 1	-14.2		0	0
Stage 1	-14.4		0	0
Stage 1	-14.6		0	0
Stage 1	-14.8		0	0
Stage 1	-15		0	0
Stage 1	-15.2		0	0
Stage 1	-15.4		0	0
Stage 1	-15.6		0	0
Stage 1	-15.8		0	0
Stage 1	-16		0	0

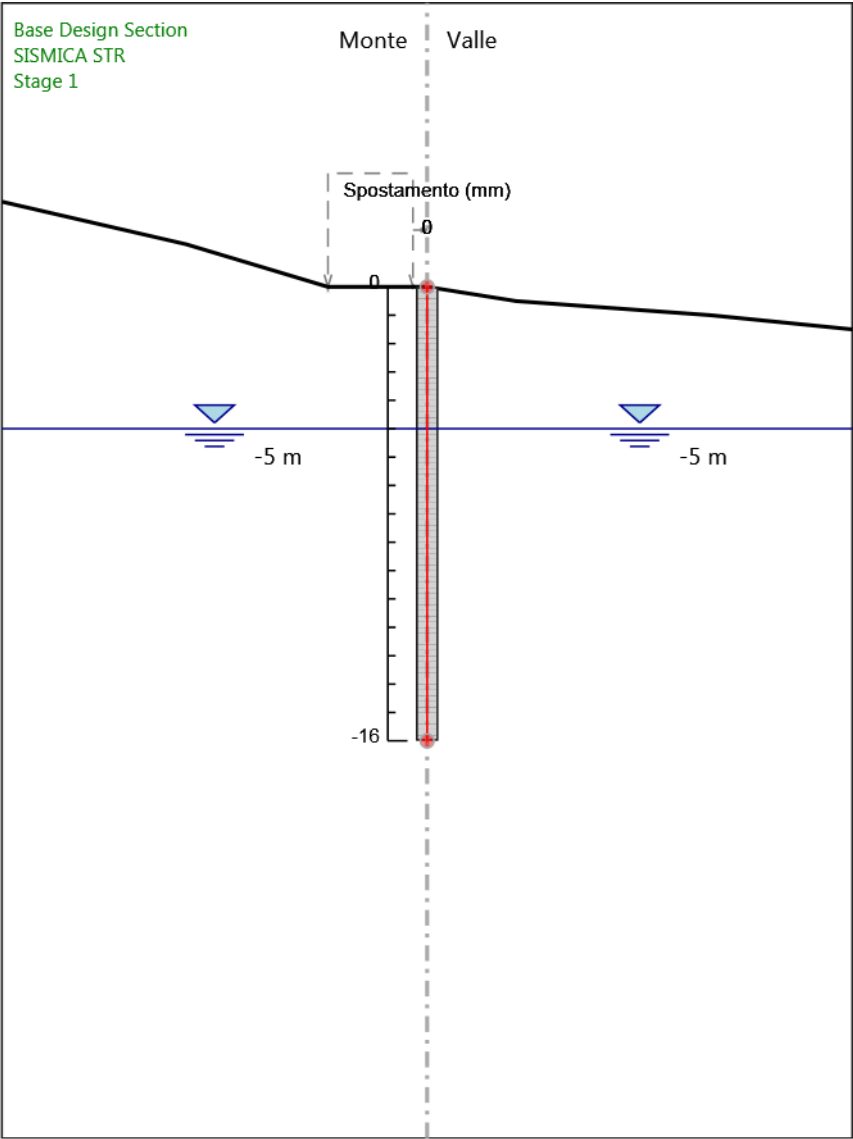
**Tabella Risultati Paratia SISMICA STR - Left Wall - Stage: Stage 2**

Design Assumption: SISMICA STR	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	0	0	0
Stage 2	-0.2	0	0
Stage 2	-0.4	0	-0.01
Stage 2	-0.6	-0.01	-0.03
Stage 2	-0.8	-0.02	-0.04
Stage 2	-1	-0.02	-0.04
Stage 2	-1.2	-0.03	-0.05
Stage 2	-1.4	-0.05	-0.06
Stage 2	-1.6	-0.06	-0.07
Stage 2	-1.8	-0.07	-0.07
Stage 2	-2	-0.09	-0.08
Stage 2	-2.2	0.97	5.29
Stage 2	-2.4	3.15	10.91
Stage 2	-2.6	6.47	16.61
Stage 2	-2.8	10.95	22.36
Stage 2	-3	15.15	21.04
Stage 2	-3.2	19.04	19.41
Stage 2	-3.4	22.53	17.48
Stage 2	-3.6	25.58	15.25
Stage 2	-3.8	28.14	12.79
Stage 2	-4	30.23	10.45
Stage 2	-4.2	31.89	8.31
Stage 2	-4.4	33.17	6.36
Stage 2	-4.6	34.09	4.6
Stage 2	-4.8	34.69	3.02
Stage 2	-5	35.01	1.6
Stage 2	-5.2	35.08	0.35
Stage 2	-5.4	34.93	-0.76
Stage 2	-5.6	34.58	-1.75
Stage 2	-5.8	34.06	-2.62
Stage 2	-6	33.38	-3.37
Stage 2	-6.2	32.58	-4.02
Stage 2	-6.4	31.66	-4.57
Stage 2	-6.6	30.66	-5.03
Stage 2	-6.8	29.58	-5.41
Stage 2	-7	28.44	-5.7
Stage 2	-7.2	27.25	-5.93
Stage 2	-7.4	26.03	-6.09
Stage 2	-7.6	24.79	-6.19
Stage 2	-7.8	23.54	-6.24
Stage 2	-8	22.3	-6.24
Stage 2	-8.2	21.06	-6.19
Stage 2	-8.4	19.84	-6.11
Stage 2	-8.6	18.64	-5.98
Stage 2	-8.8	17.47	-5.84
Stage 2	-9	16.33	-5.69
Stage 2	-9.2	15.23	-5.52
Stage 2	-9.4	14.16	-5.35
Stage 2	-9.6	13.12	-5.17
Stage 2	-9.8	12.13	-4.97
Stage 2	-10	11.17	-4.78
Stage 2	-10.2	10.26	-4.57
Stage 2	-10.4	9.39	-4.37
Stage 2	-10.6	8.56	-4.16
Stage 2	-10.8	7.77	-3.94
Stage 2	-11	7.02	-3.73
Stage 2	-11.2	6.32	-3.51
Stage 2	-11.4	5.66	-3.3
Stage 2	-11.6	5.04	-3.09
Stage 2	-11.8	4.46	-2.88
Stage 2	-12	3.93	-2.67
Stage 2	-12.2	3.44	-2.47
Stage 2	-12.4	2.98	-2.27
Stage 2	-12.6	2.57	-2.08
Stage 2	-12.8	2.19	-1.89

Design Assumption: SISMICA STR		Risultati Paratia	Muro: LEFT	
Stage	Z (m)		Momento (kN*m/m)	Taglio (kN/m)
Stage 2	-13		1.85	-1.71
Stage 2	-13.2		1.54	-1.53
Stage 2	-13.4		1.27	-1.36
Stage 2	-13.6		1.03	-1.2
Stage 2	-13.8		0.82	-1.05
Stage 2	-14		0.64	-0.9
Stage 2	-14.2		0.49	-0.77
Stage 2	-14.4		0.36	-0.64
Stage 2	-14.6		0.25	-0.52
Stage 2	-14.8		0.17	-0.42
Stage 2	-15		0.11	-0.32
Stage 2	-15.2		0.06	-0.23
Stage 2	-15.4		0.03	-0.15
Stage 2	-15.6		0.01	-0.09
Stage 2	-15.8		0	-0.04
Stage 2	-16		0	-0.01

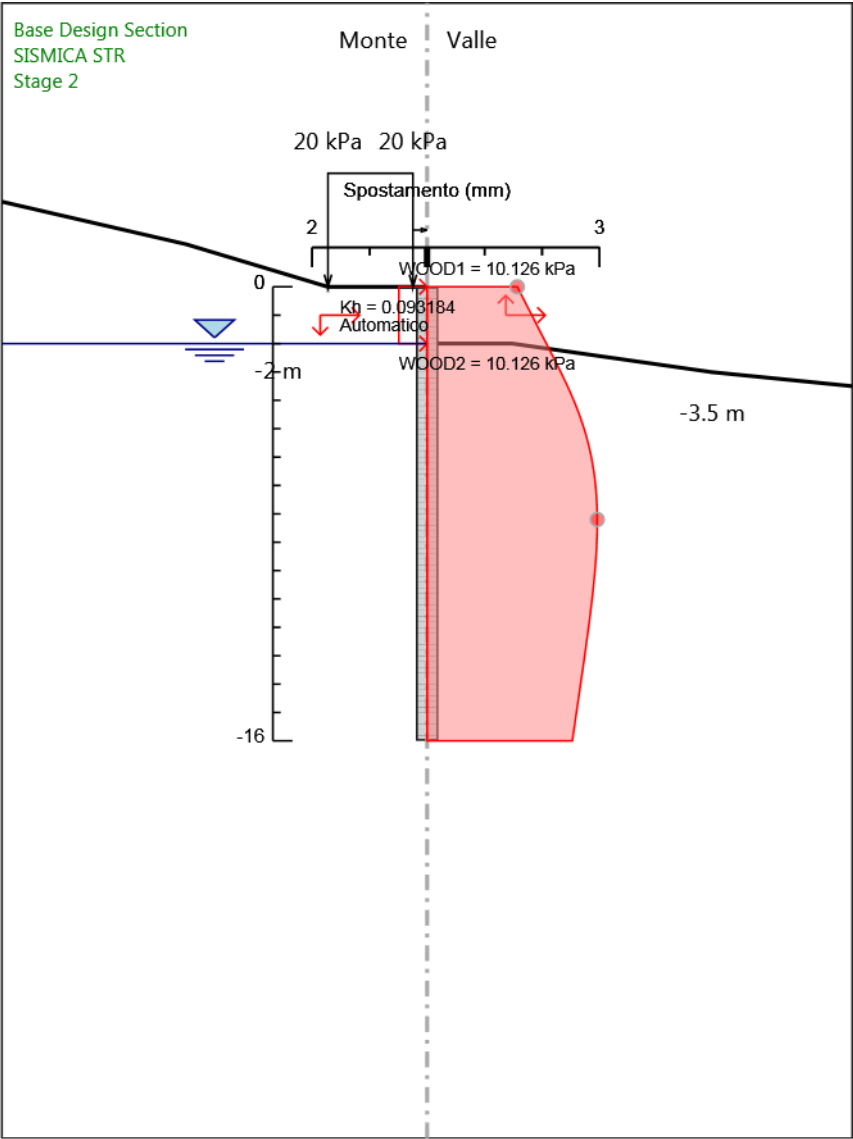


Grafico Spostamento SISMICA STR - Stage: Stage 1



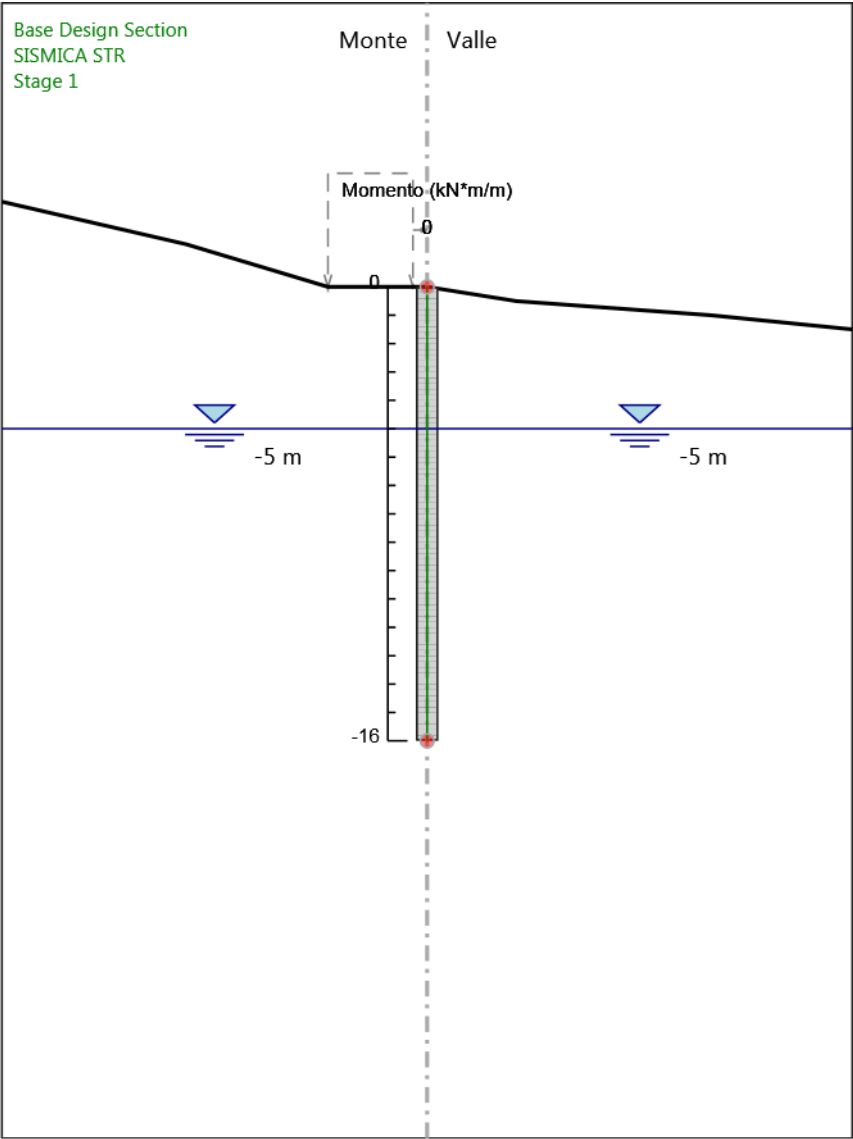
Design Assumption: SISMICA STR  
Stage: Stage 1  
Spostamento

Grafico Spostamento SISMICA STR - Stage: Stage 2



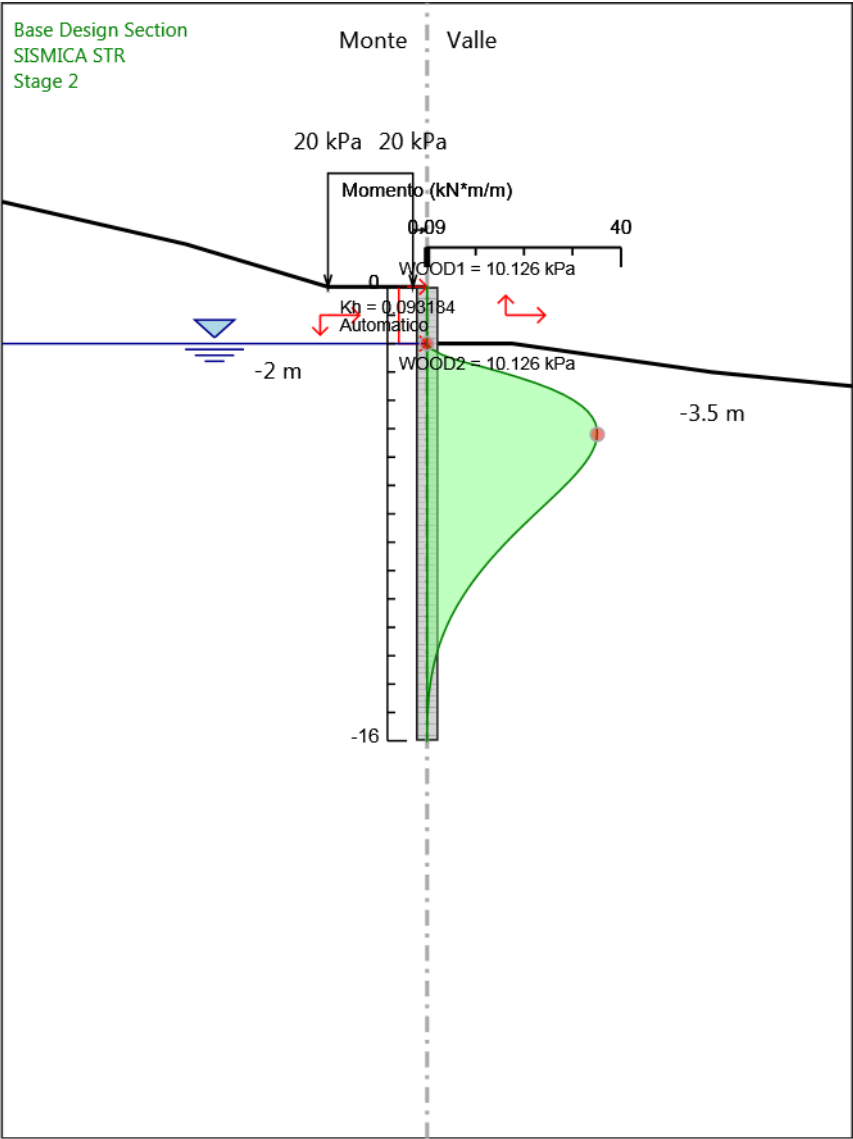
Design Assumption: SISMICA STR  
Stage: Stage 2  
Spostamento

Grafico Risultati Momento SISMICA STR - Stage: Stage 1



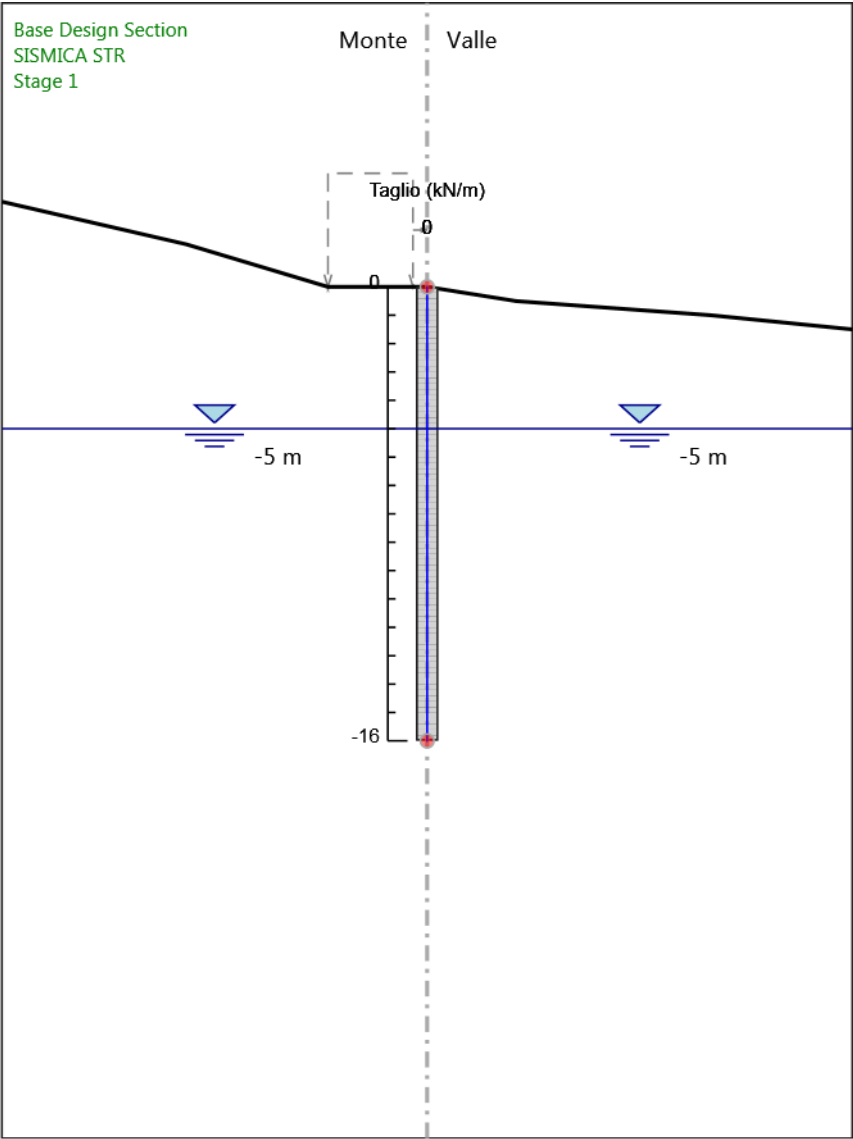
Design Assumption: SISMICA STR  
Stage: Stage 1  
Momento

Grafico Risultati Momento SISMICA STR - Stage: Stage 2



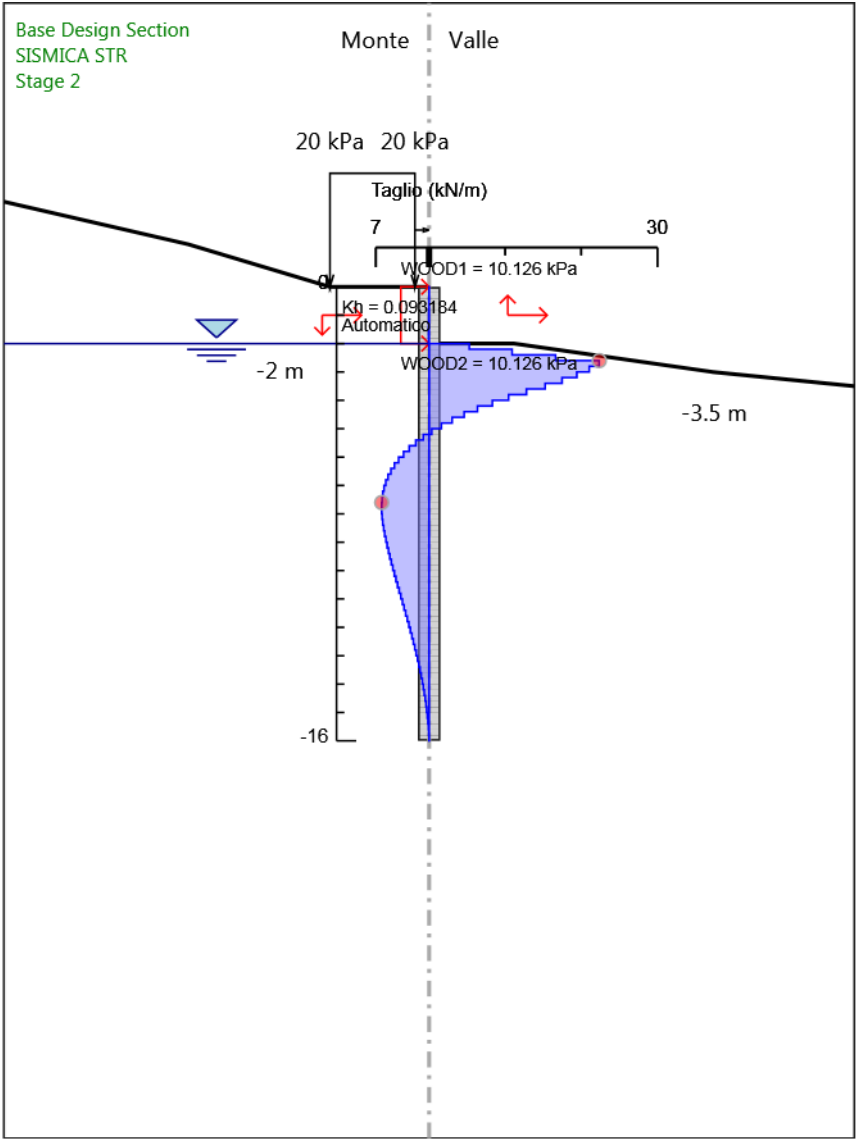
Design Assumption: SISMICA STR  
Stage: Stage 2  
Momento

Grafico Risultati Taglio SISMICA STR - Stage: Stage 1



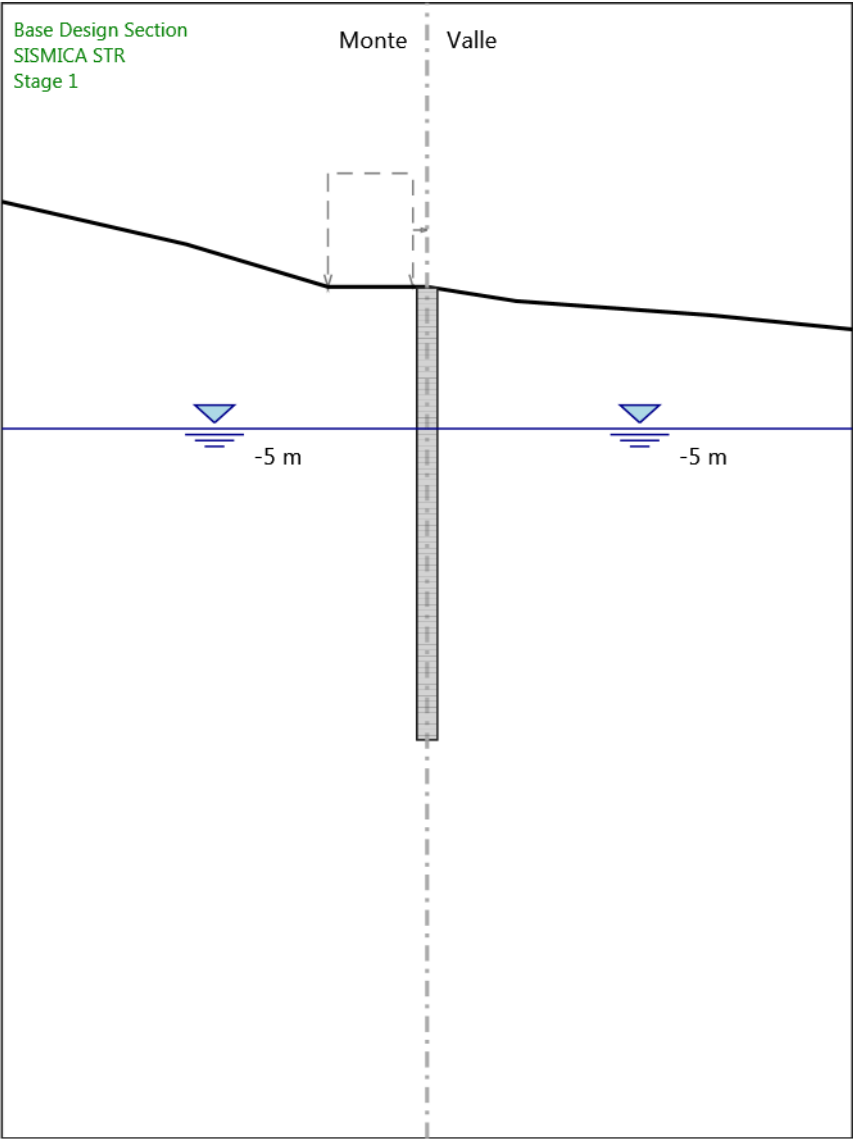
Design Assumption: SISMICA STR  
Stage: Stage 1  
Taglio

Grafico Risultati Taglio SISMICA STR - Stage: Stage 2



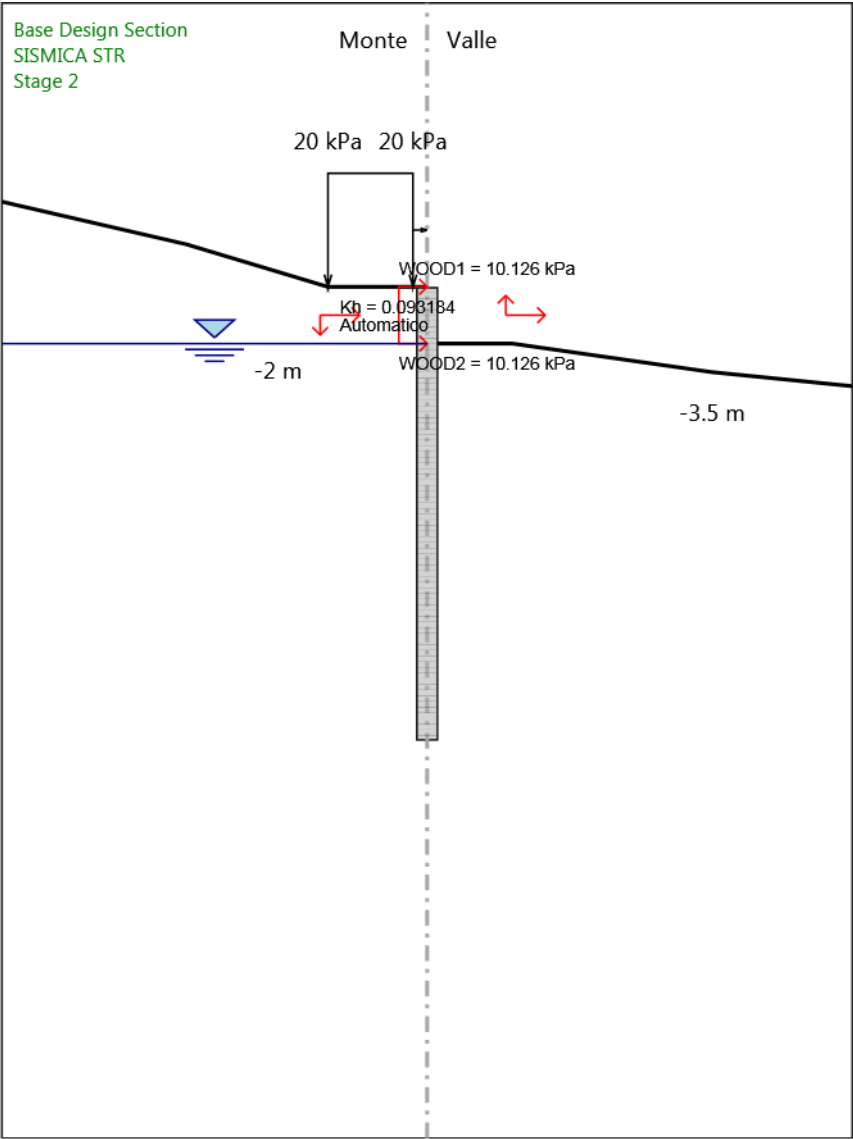
Design Assumption: SISMICA STR  
Stage: Stage 2  
Taglio

Grafico Risultati Momento SISMICA STR - Stage: Stage 1



Design Assumption: SISMICA STR  
Stage: Stage 1  
Momento

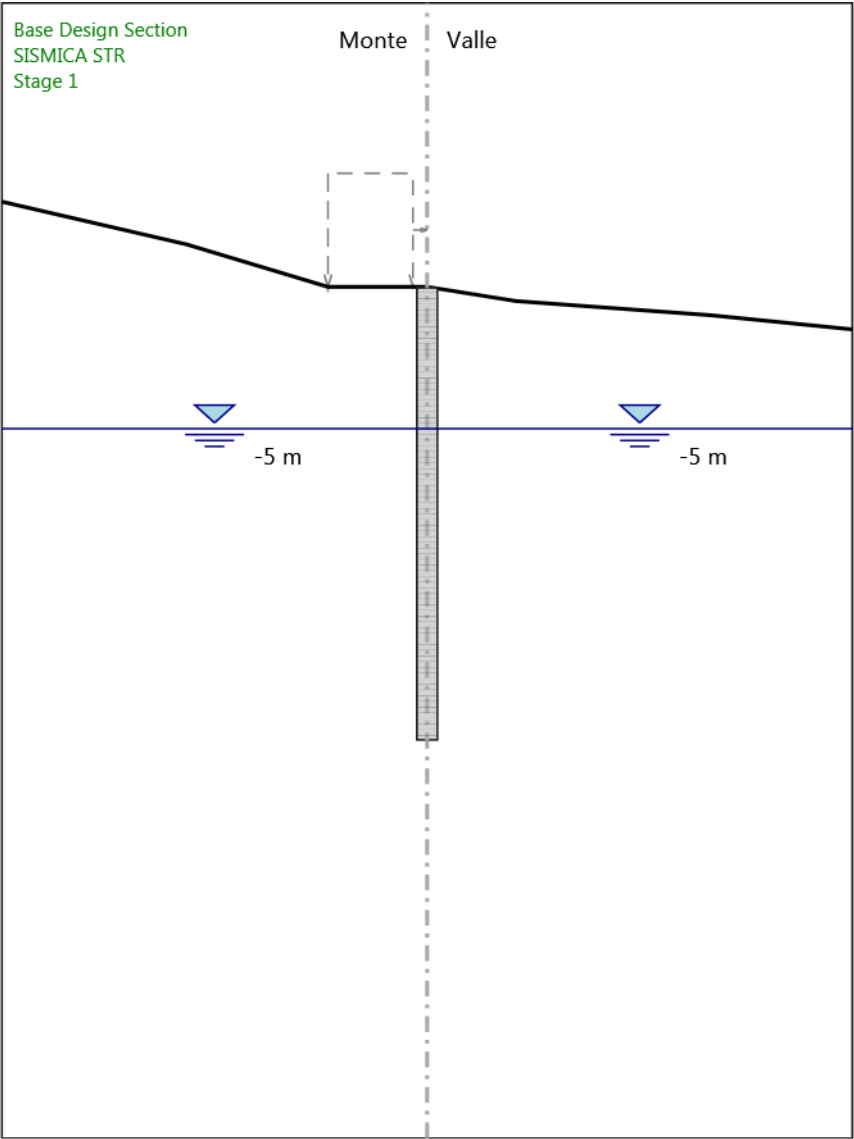
Grafico Risultati Momento SISMICA STR - Stage: Stage 2



Design Assumption: SISMICA STR  
Stage: Stage 2  
Momento

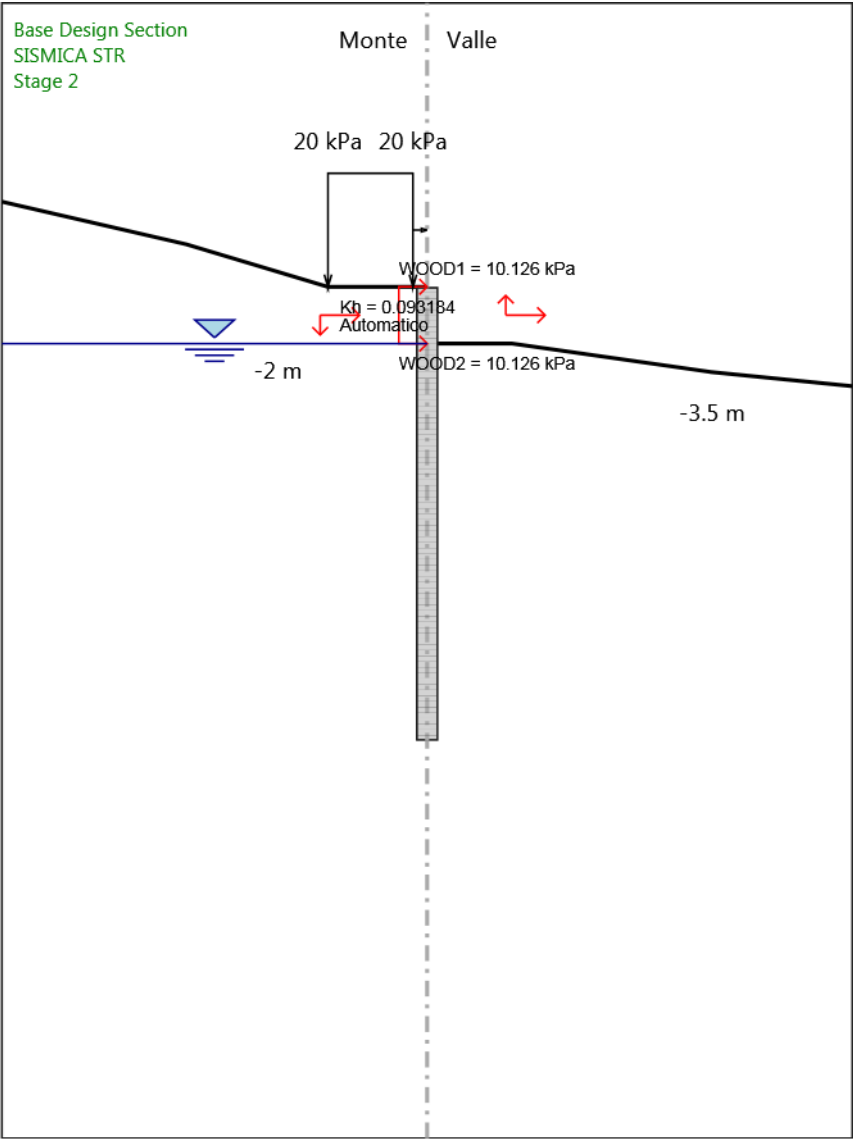


Grafico Risultati Taglio SISMICA STR - Stage: Stage 1



Design Assumption: SISMICA STR  
Stage: Stage 1  
Taglio

Grafico Risultati Taglio SISMICA STR - Stage: Stage 2



Design Assumption: SISMICA STR  
Stage: Stage 2  
Taglio

## Risultati SISMICA GEO

Tabella Risultati Paratia SISMICA GEO - Left Wall - Stage: Stage 1

Design Assumption: SISMICA GEO	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 1	0	0	0
Stage 1	-0.2	0	0
Stage 1	-0.4	0	0
Stage 1	-0.6	0	0
Stage 1	-0.8	0	0
Stage 1	-1	0	0
Stage 1	-1.2	0	0
Stage 1	-1.4	0	0
Stage 1	-1.6	0	0
Stage 1	-1.8	0	0
Stage 1	-2	0	0
Stage 1	-2.2	0	0
Stage 1	-2.4	0	0
Stage 1	-2.6	0	0
Stage 1	-2.8	0	0
Stage 1	-3	0	0
Stage 1	-3.2	0	0
Stage 1	-3.4	0	0
Stage 1	-3.6	0	0
Stage 1	-3.8	0	0
Stage 1	-4	0	0
Stage 1	-4.2	0	0
Stage 1	-4.4	0	0
Stage 1	-4.6	0	0
Stage 1	-4.8	0	0
Stage 1	-5	0	0
Stage 1	-5.2	0	0
Stage 1	-5.4	0	0
Stage 1	-5.6	0	0
Stage 1	-5.8	0	0
Stage 1	-6	0	0
Stage 1	-6.2	0	0
Stage 1	-6.4	0	0
Stage 1	-6.6	0	0
Stage 1	-6.8	0	0
Stage 1	-7	0	0
Stage 1	-7.2	0	0
Stage 1	-7.4	0	0
Stage 1	-7.6	0	0
Stage 1	-7.8	0	0
Stage 1	-8	0	0
Stage 1	-8.2	0	0
Stage 1	-8.4	0	0
Stage 1	-8.6	0	0
Stage 1	-8.8	0	0
Stage 1	-9	0	0
Stage 1	-9.2	0	0
Stage 1	-9.4	0	0
Stage 1	-9.6	0	0
Stage 1	-9.8	0	0
Stage 1	-10	0	0
Stage 1	-10.2	0	0
Stage 1	-10.4	0	0
Stage 1	-10.6	0	0
Stage 1	-10.8	0	0
Stage 1	-11	0	0
Stage 1	-11.2	0	0
Stage 1	-11.4	0	0
Stage 1	-11.6	0	0
Stage 1	-11.8	0	0
Stage 1	-12	0	0
Stage 1	-12.2	0	0

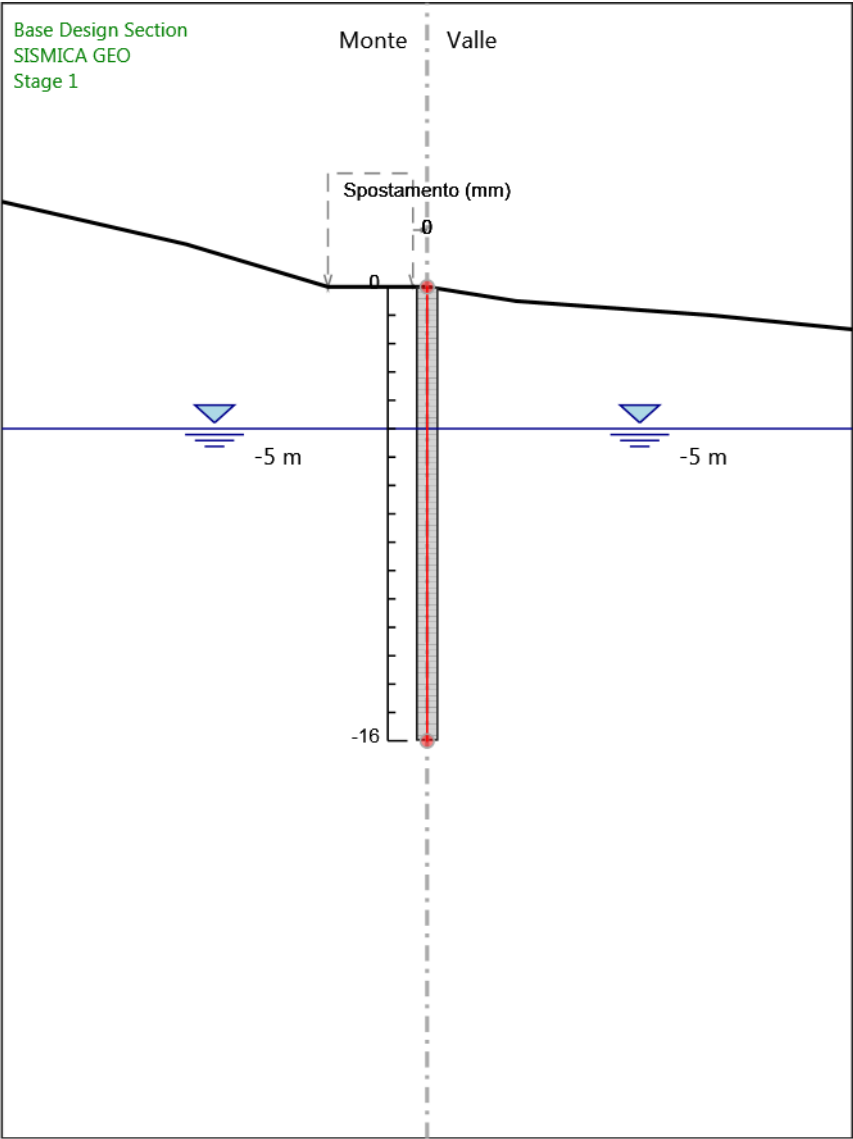
Design Assumption: SISMICA GEO		Risultati Paratia	Muro: LEFT	
Stage	Z (m)		Momento (kN*m/m)	Taglio (kN/m)
Stage 1	-12.4		0	0
Stage 1	-12.6		0	0
Stage 1	-12.8		0	0
Stage 1	-13		0	0
Stage 1	-13.2		0	0
Stage 1	-13.4		0	0
Stage 1	-13.6		0	0
Stage 1	-13.8		0	0
Stage 1	-14		0	0
Stage 1	-14.2		0	0
Stage 1	-14.4		0	0
Stage 1	-14.6		0	0
Stage 1	-14.8		0	0
Stage 1	-15		0	0
Stage 1	-15.2		0	0
Stage 1	-15.4		0	0
Stage 1	-15.6		0	0
Stage 1	-15.8		0	0
Stage 1	-16		0	0

**Tabella Risultati Paratia SISMICA GEO - Left Wall - Stage: Stage 2**

Design Assumption: SISMICA GEO	Risultati Paratia	Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage 2	0	0	0
Stage 2	-0.2	0	0
Stage 2	-0.2	0	0
Stage 2	-0.4	0	0
Stage 2	-0.4	0	0
Stage 2	-0.6	0	0
Stage 2	-0.6	0	0
Stage 2	-0.8	0	0
Stage 2	-0.8	0	0
Stage 2	-1	0	0
Stage 2	-1	0	0
Stage 2	-1.2	0	0
Stage 2	-1.2	0	0
Stage 2	-1.4	0	0
Stage 2	-1.4	0	0
Stage 2	-1.6	0	0
Stage 2	-1.6	0	0
Stage 2	-1.8	0	0
Stage 2	-1.8	0	0
Stage 2	-2	0	0
Stage 2	-2	0	0
Stage 2	-2.2	1.2	6
Stage 2	-2.4	3.66	12.3
Stage 2	-2.6	7.4	18.71
Stage 2	-2.8	12.44	25.2
Stage 2	-3	17.06	23.06
Stage 2	-3.2	21.3	21.24
Stage 2	-3.4	25.14	19.18
Stage 2	-3.6	28.5	16.82
Stage 2	-3.8	31.35	14.22
Stage 2	-4	33.69	11.72
Stage 2	-4.2	35.57	9.41
Stage 2	-4.4	37.03	7.29
Stage 2	-4.6	38.1	5.35
Stage 2	-4.8	38.82	3.58
Stage 2	-5	39.21	1.96
Stage 2	-5.2	39.31	0.49
Stage 2	-5.4	39.14	-0.83
Stage 2	-5.6	38.74	-2.01
Stage 2	-5.8	38.13	-3.06
Stage 2	-6	37.33	-3.98
Stage 2	-6.2	36.37	-4.78
Stage 2	-6.4	35.28	-5.47
Stage 2	-6.6	34.07	-6.07
Stage 2	-6.8	32.75	-6.56
Stage 2	-7	31.36	-6.98
Stage 2	-7.2	29.9	-7.31
Stage 2	-7.4	28.38	-7.56
Stage 2	-7.6	26.83	-7.75
Stage 2	-7.8	25.26	-7.88
Stage 2	-8	23.67	-7.95
Stage 2	-8.2	22.07	-7.97
Stage 2	-8.4	20.48	-7.94
Stage 2	-8.6	18.91	-7.87
Stage 2	-8.8	17.35	-7.77
Stage 2	-9	15.83	-7.62
Stage 2	-9.2	14.34	-7.45
Stage 2	-9.4	12.89	-7.25
Stage 2	-9.6	11.49	-7.02
Stage 2	-9.8	10.13	-6.78
Stage 2	-10	8.83	-6.51
Stage 2	-10.2	7.58	-6.23
Stage 2	-10.4	6.4	-5.93
Stage 2	-10.6	5.27	-5.62
Stage 2	-10.8	4.21	-5.3

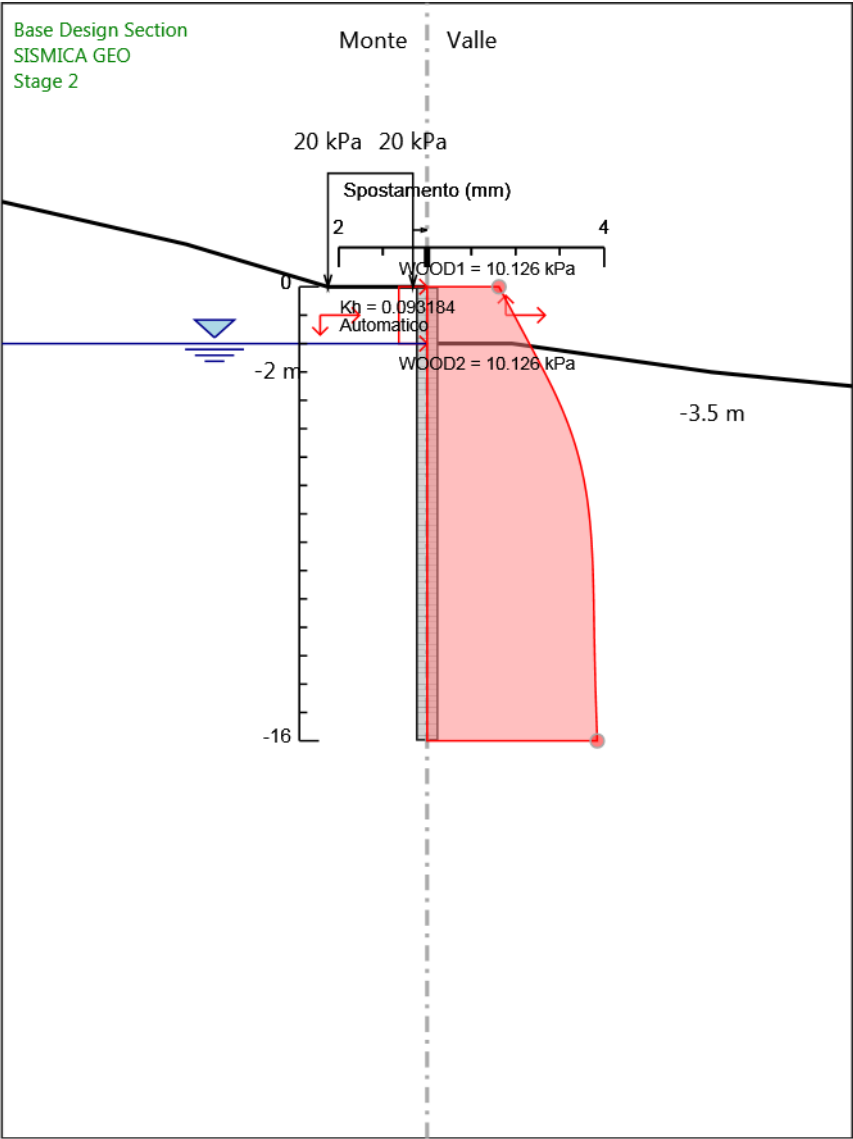
Design Assumption: SISMICA GEO		Risultati Paratia	Muro: LEFT	
Stage	Z (m)		Momento (kN*m/m)	Taglio (kN/m)
Stage 2	-11		3.22	-4.96
Stage 2	-11.2		2.3	-4.62
Stage 2	-11.4		1.44	-4.27
Stage 2	-11.6		0.66	-3.91
Stage 2	-11.8		-0.05	-3.55
Stage 2	-12		-0.68	-3.18
Stage 2	-12.2		-1.24	-2.8
Stage 2	-12.4		-1.73	-2.41
Stage 2	-12.6		-2.13	-2.02
Stage 2	-12.8		-2.46	-1.63
Stage 2	-13		-2.7	-1.22
Stage 2	-13.2		-2.86	-0.82
Stage 2	-13.4		-2.94	-0.4
Stage 2	-13.6		-2.94	0.02
Stage 2	-13.8		-2.85	0.45
Stage 2	-14		-2.67	0.88
Stage 2	-14.2		-2.43	1.25
Stage 2	-14.4		-2.12	1.52
Stage 2	-14.6		-1.78	1.7
Stage 2	-14.8		-1.43	1.78
Stage 2	-15		-1.07	1.77
Stage 2	-15.2		-0.74	1.66
Stage 2	-15.4		-0.45	1.46
Stage 2	-15.6		-0.21	1.17
Stage 2	-15.8		-0.06	0.78
Stage 2	-16		0	0.29

Grafico Spostamento SISMICA GEO - Stage: Stage 1



Design Assumption: SISMICA GEO  
Stage: Stage 1  
Spostamento

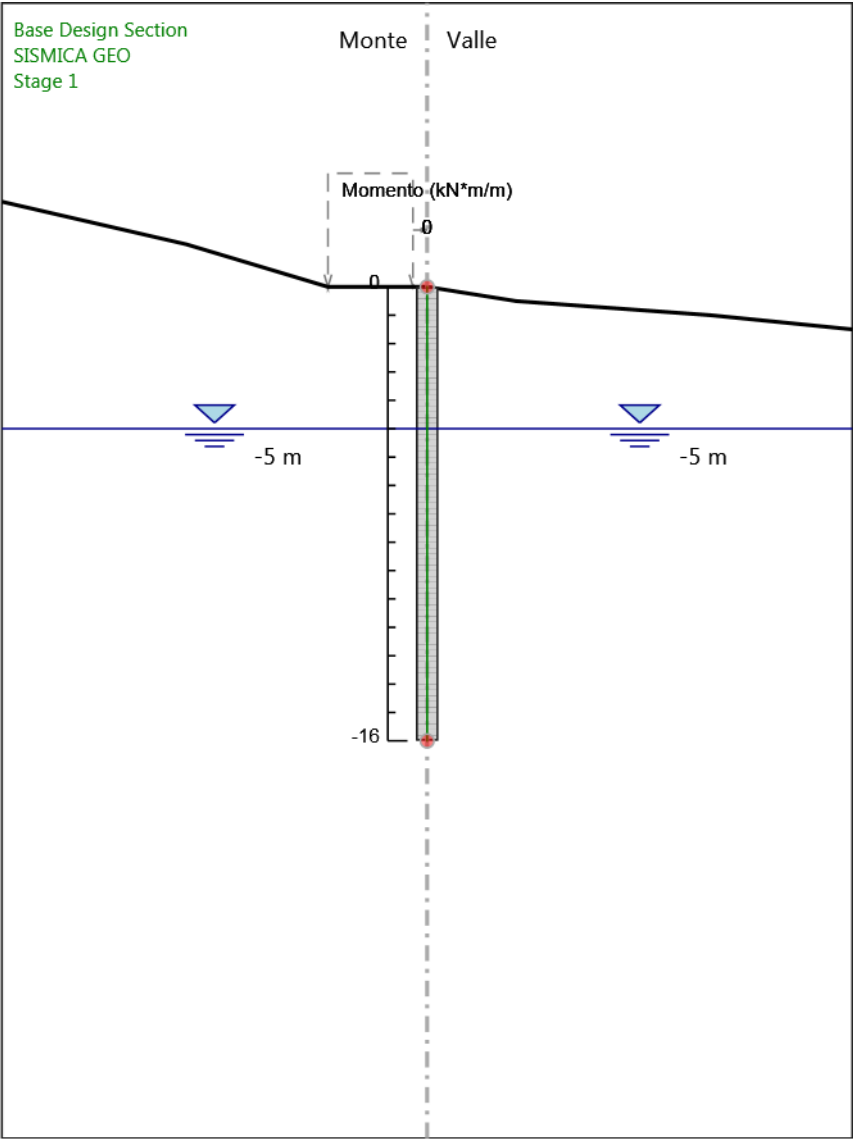
Grafico Spostamento SISMICA GEO - Stage: Stage 2



Design Assumption: SISMICA GEO  
Stage: Stage 2  
Spostamento

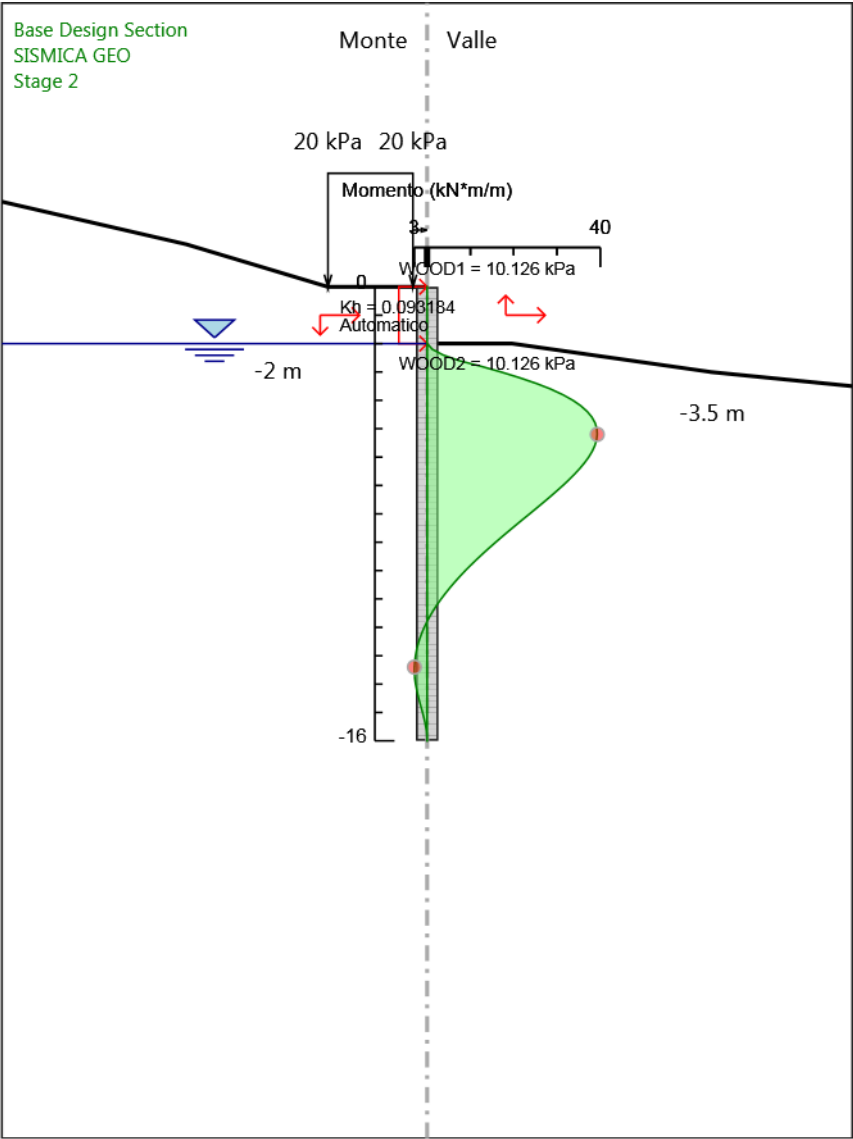


Grafico Risultati Momento SISMICA GEO - Stage: Stage 1



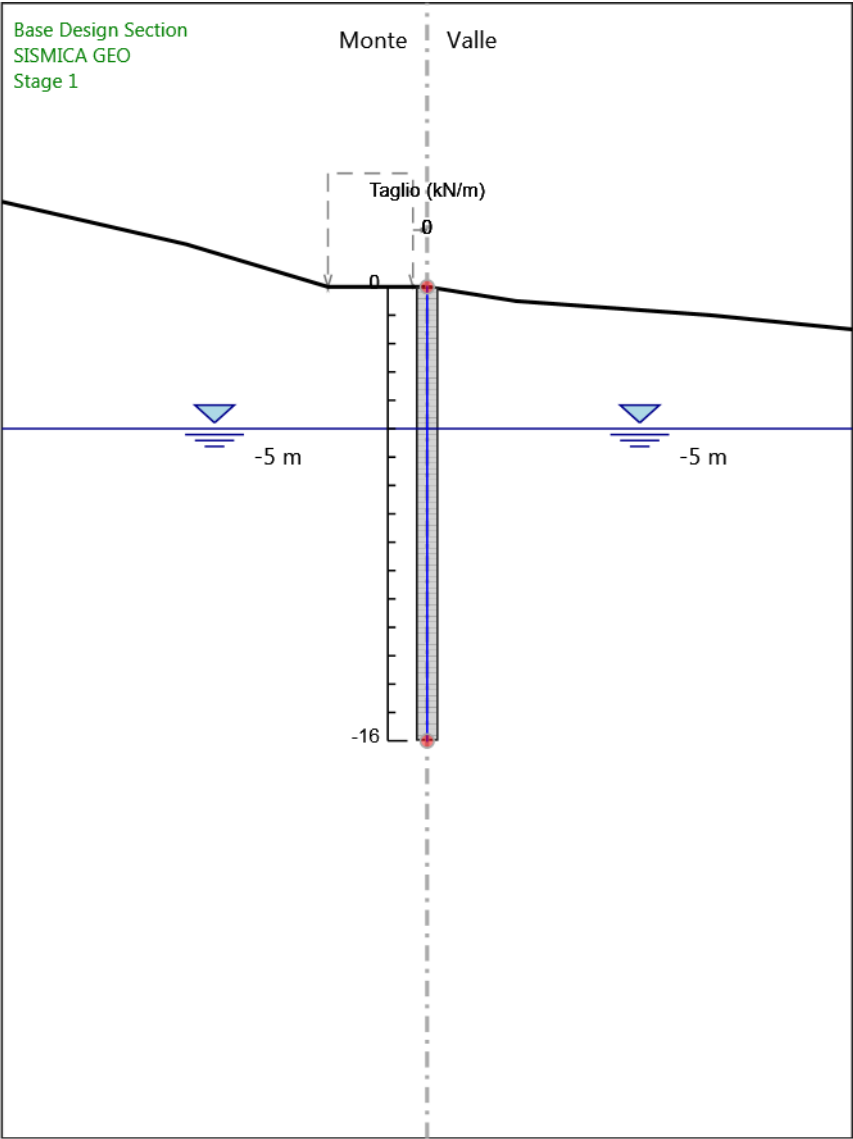
Design Assumption: SISMICA GEO  
Stage: Stage 1  
Momento

Grafico Risultati Momento SISMICA GEO - Stage: Stage 2



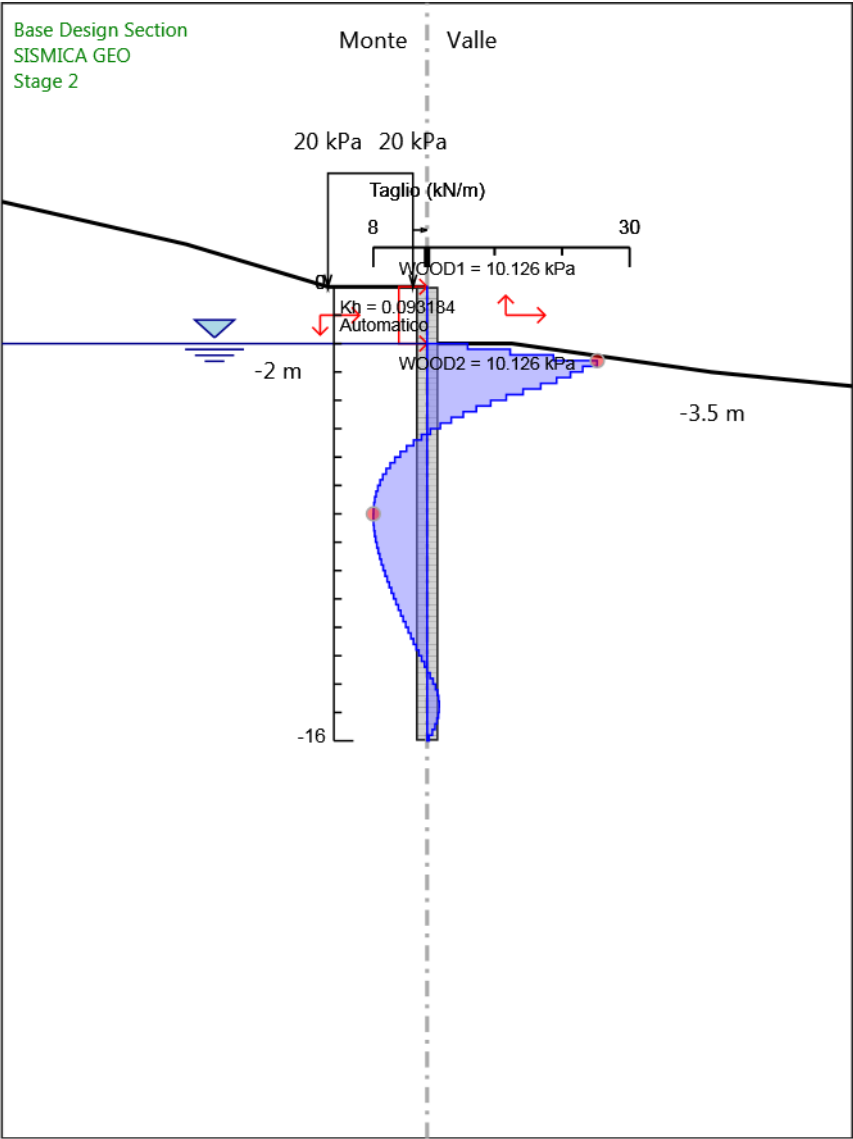
Design Assumption: SISMICA GEO  
Stage: Stage 2  
Momento

Grafico Risultati Taglio SISMICA GEO - Stage: Stage 1



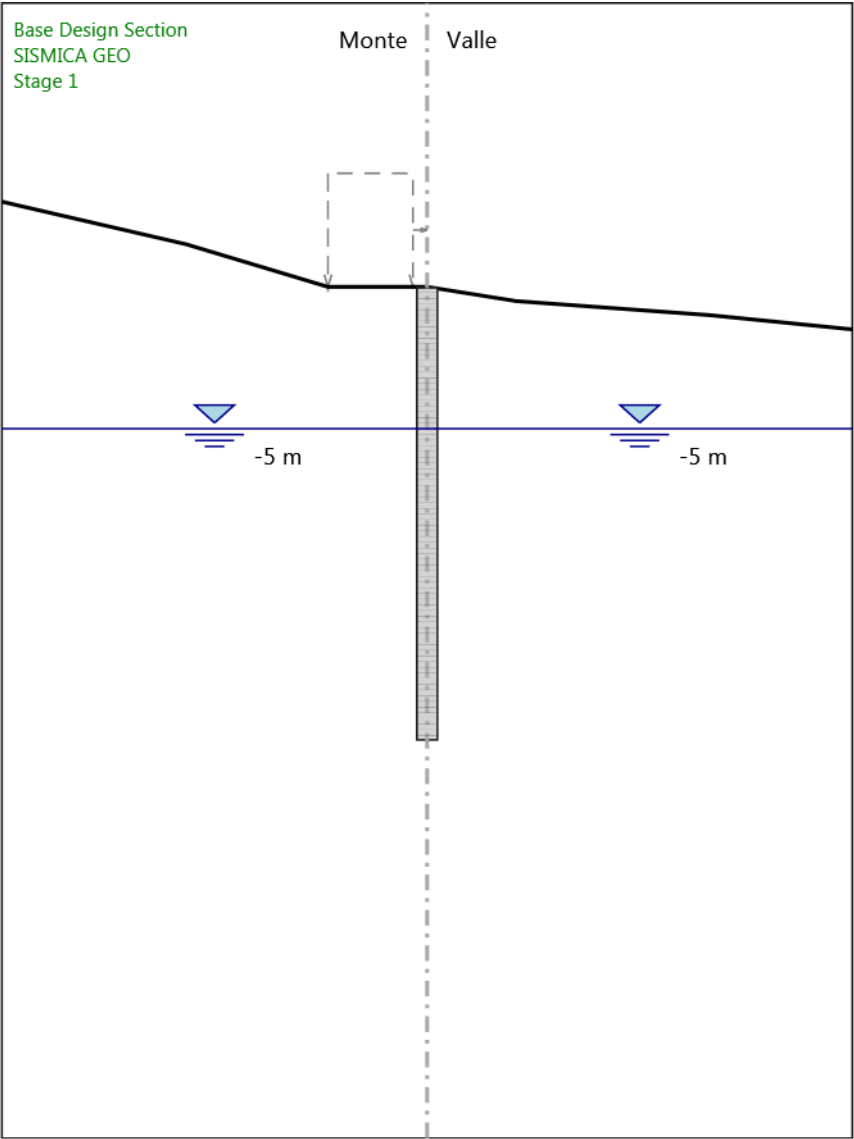
Design Assumption: SISMICA GEO  
Stage: Stage 1  
Taglio

Grafico Risultati Taglio SISMICA GEO - Stage: Stage 2



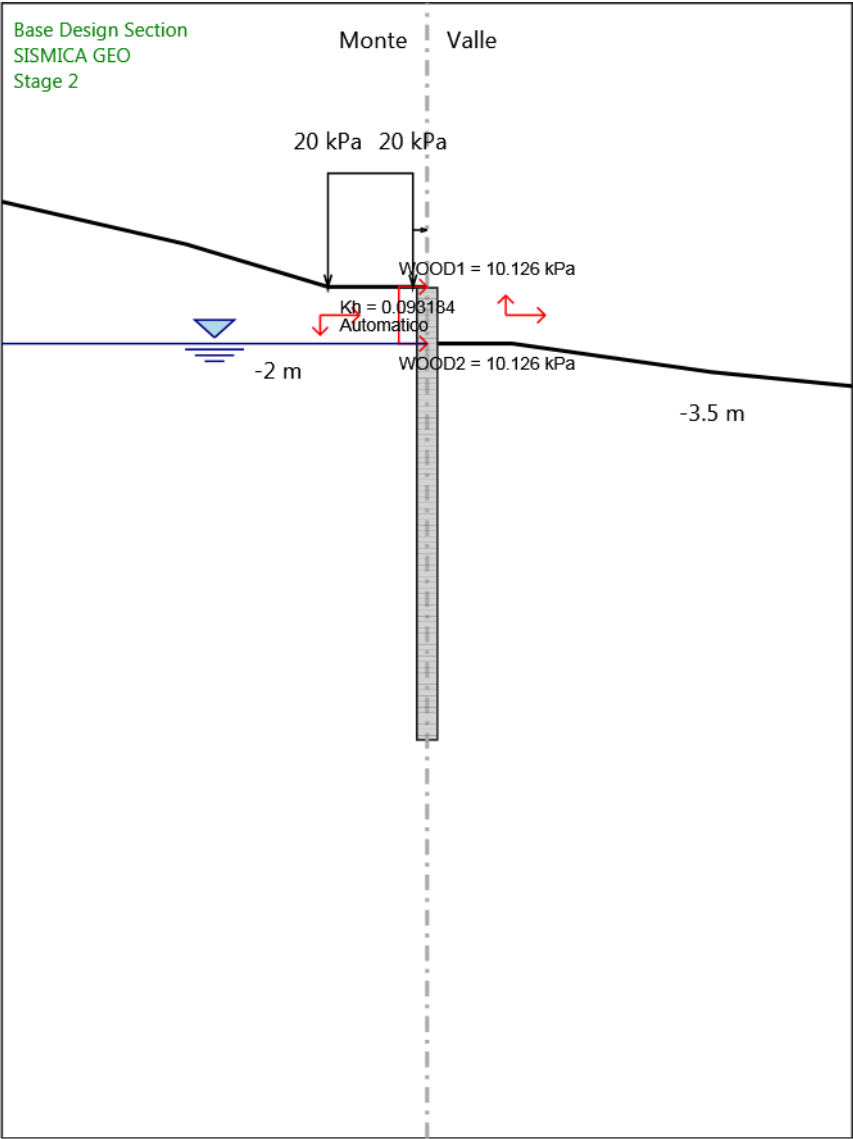
Design Assumption: SISMICA GEO  
Stage: Stage 2  
Taglio

Grafico Risultati Momento SISMICA GEO - Stage: Stage 1



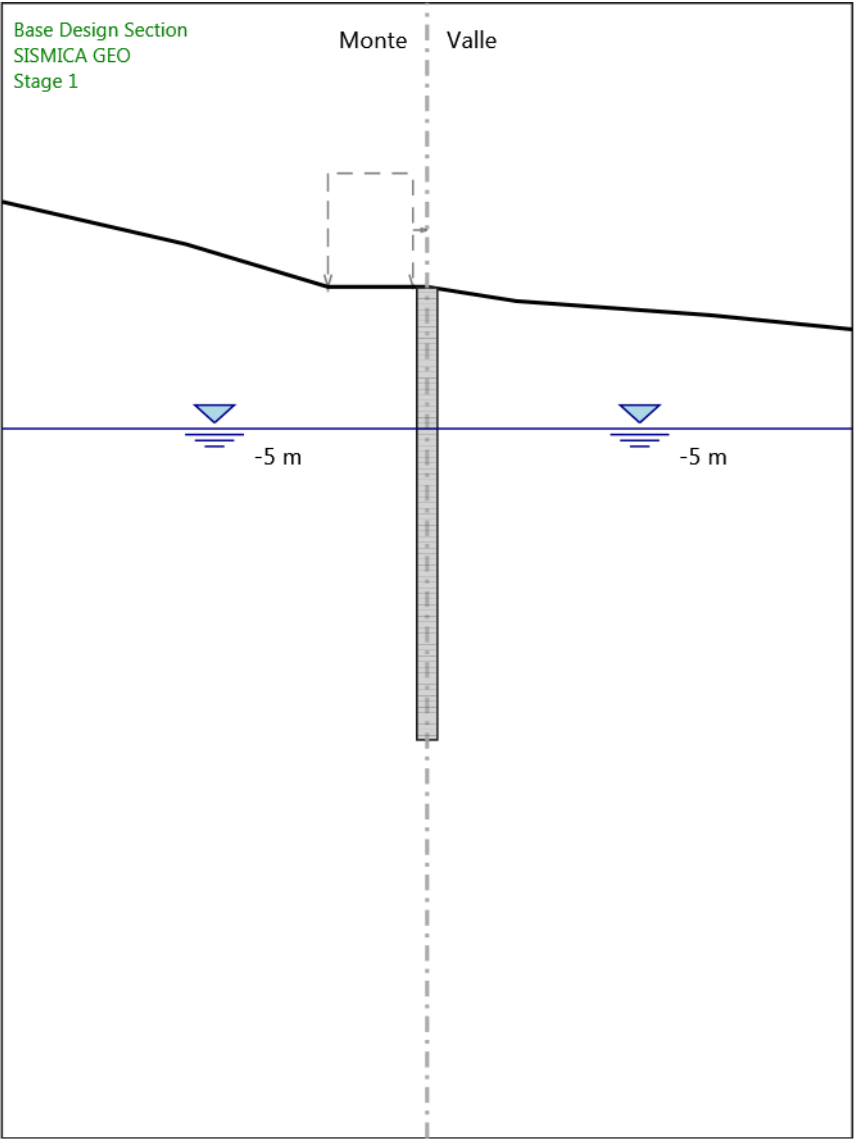
Design Assumption: SISMICA GEO  
Stage: Stage 1  
Momento

Grafico Risultati Momento SISMICA GEO - Stage: Stage 2



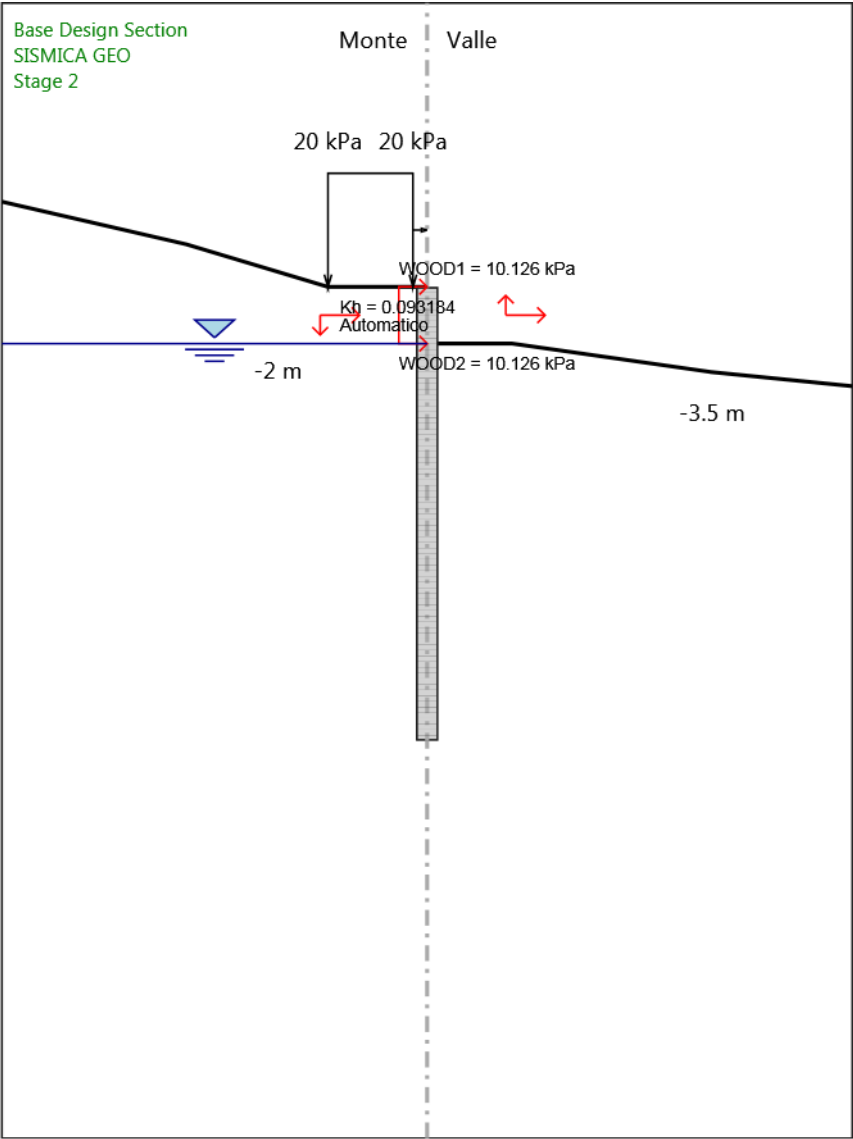
Design Assumption: SISMICA GEO  
Stage: Stage 2  
Momento

Grafico Risultati Taglio SISMICA GEO - Stage: Stage 1



Design Assumption: SISMICA GEO  
Stage: Stage 1  
Taglio

Grafico Risultati Taglio SISMICA GEO - Stage: Stage 2



Design Assumption: SISMICA GEO  
Stage: Stage 2  
Taglio