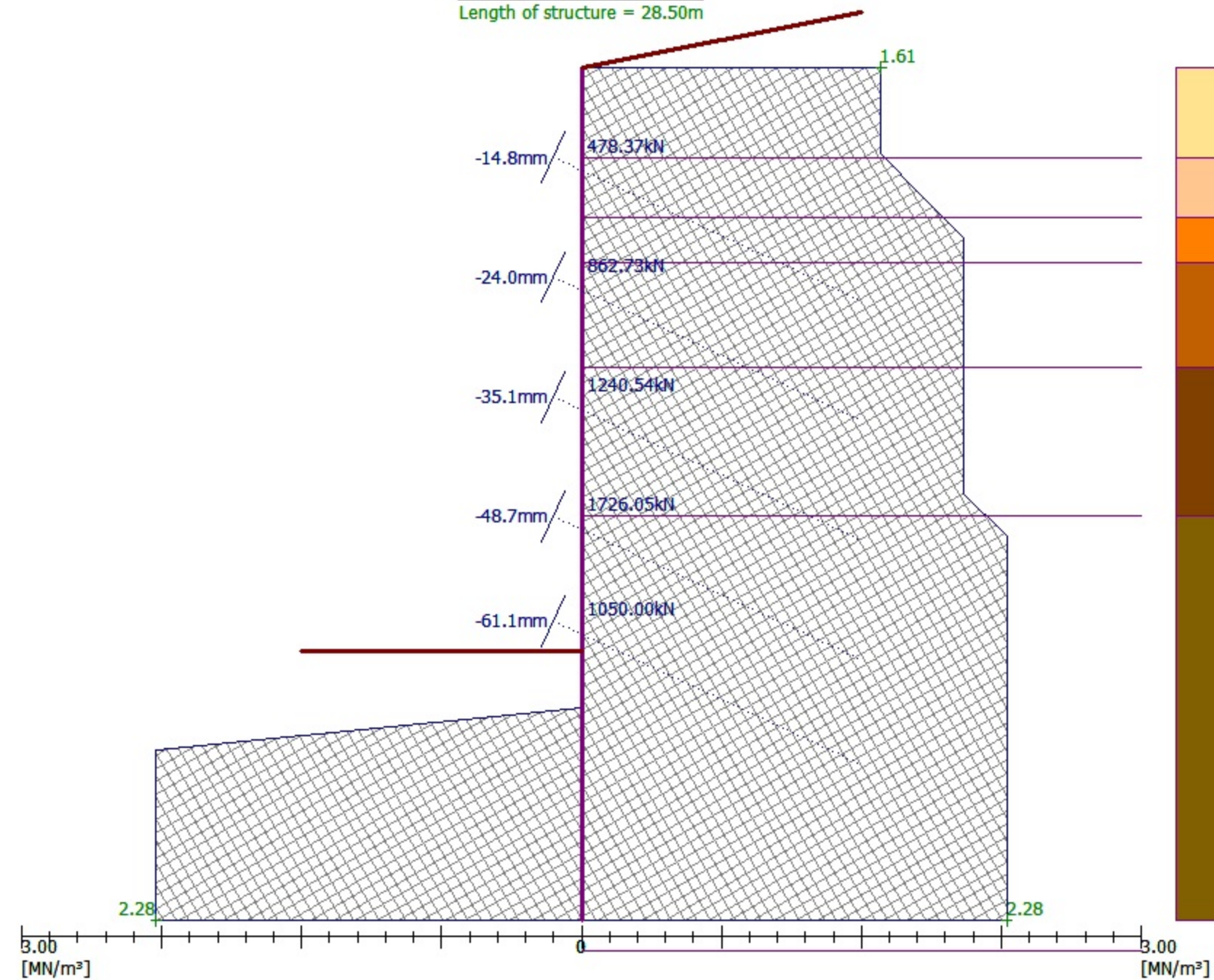


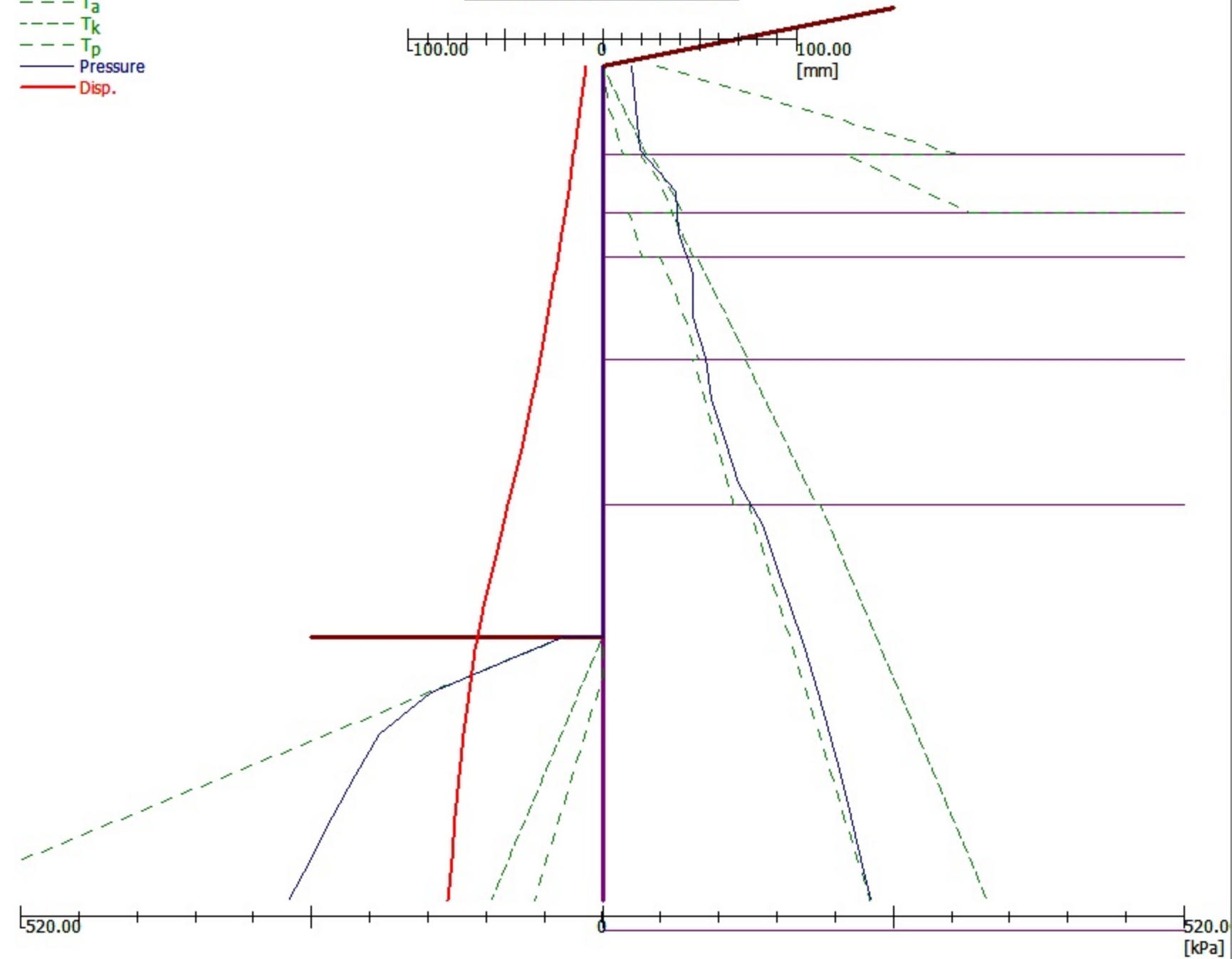
Modulus of subsoil reaction

Length of structure = 28.50m



--- T_a
--- T_k
--- T_p
— Pressure
— Disp.

Earth pressures + displacement



Frames

- Assign
- Excavation
- Terrain
- Water
- Surcharge
- Applied forces
- Anchors
- Supports
- Props
- Earthquake
- Stage settings
- Analysis
- Internal stability
- Exter. stability
- Dimensioning

Results

Analysis properly completed.

Maximum values of internal forces acting on the structure

Maximum shear force = 422.23 kN/m
Maximum moment = 563.23 kNm/m
Maximum displacement = 79.4 mm

Anchors forces

No.	Depth [m]	Displacement [mm]	Anchor force [kN]
1	3.00	-14.8	478.37
2	7.00	-24.0	862.73
3	10.00	-35.1	1240.54
4	14.00	-48.7	1726.05
5	17.00	-61.1	1050.00

Visualization

- ☒ Kh + Pressures
- ☐ Internal forces
- ☐ Deformations + stresses

Outputs

Add picture

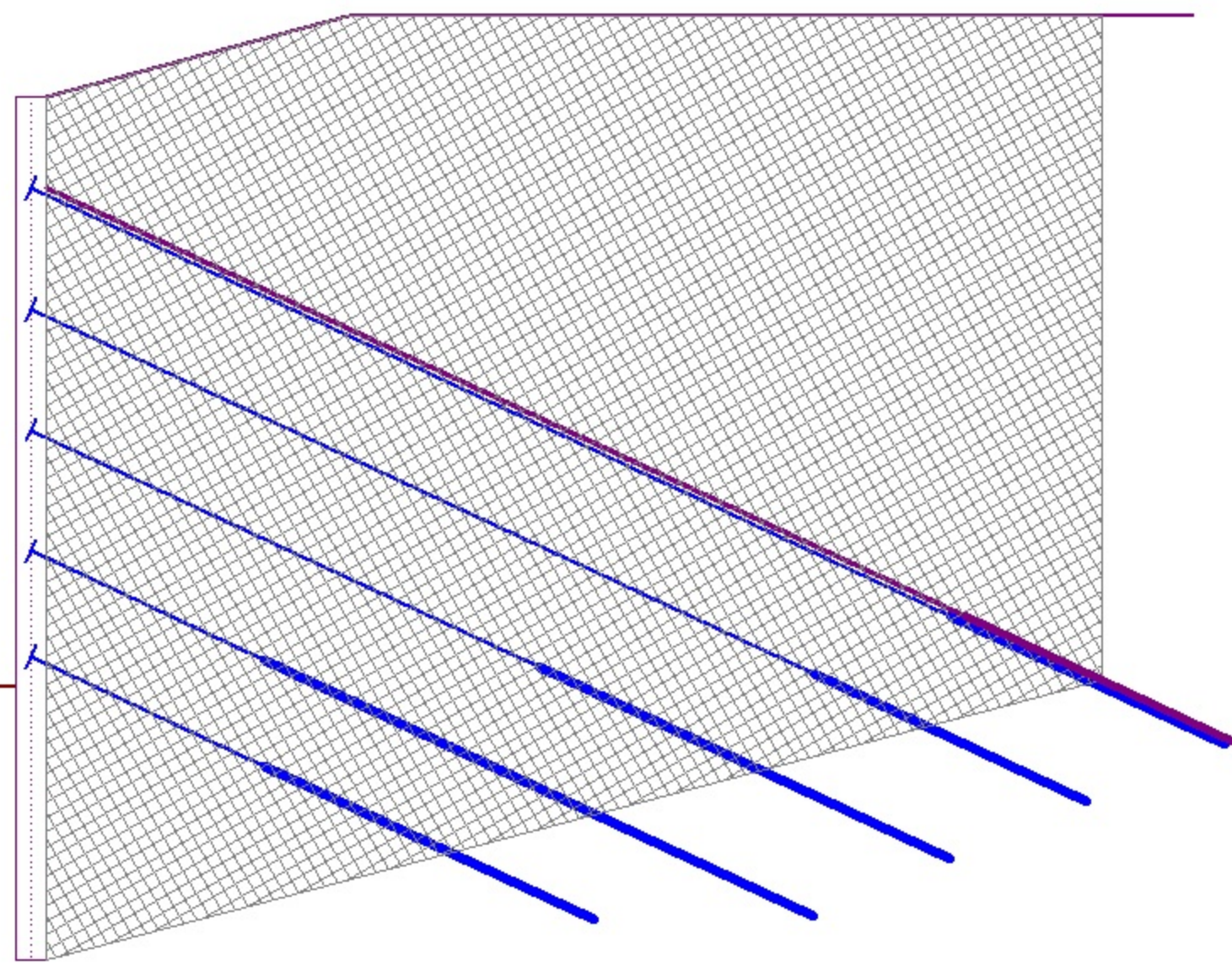
Analysis : 0

Total : 0

List of pictures



Copy view



Frames

- Assign
- Excavation
- Terrain
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Internal stability

No.	Anchor force [kN]	Max. allow. force [kN]	Utiliz. [%]	Verification
> 1	478.37	4756.92	10.06	Is satisfied
2	862.73	5221.86	16.52	Is satisfied
3	1240.54	4112.45	30.17	Is satisfied
4	1726.05	3548.75	48.64	Is satisfied
5	1050.00	4353.55	24.12	Is satisfied

Results

Verification of decisive row of anchors :

Anchor No. : 4

Specified anchor force = 1726.05 kN

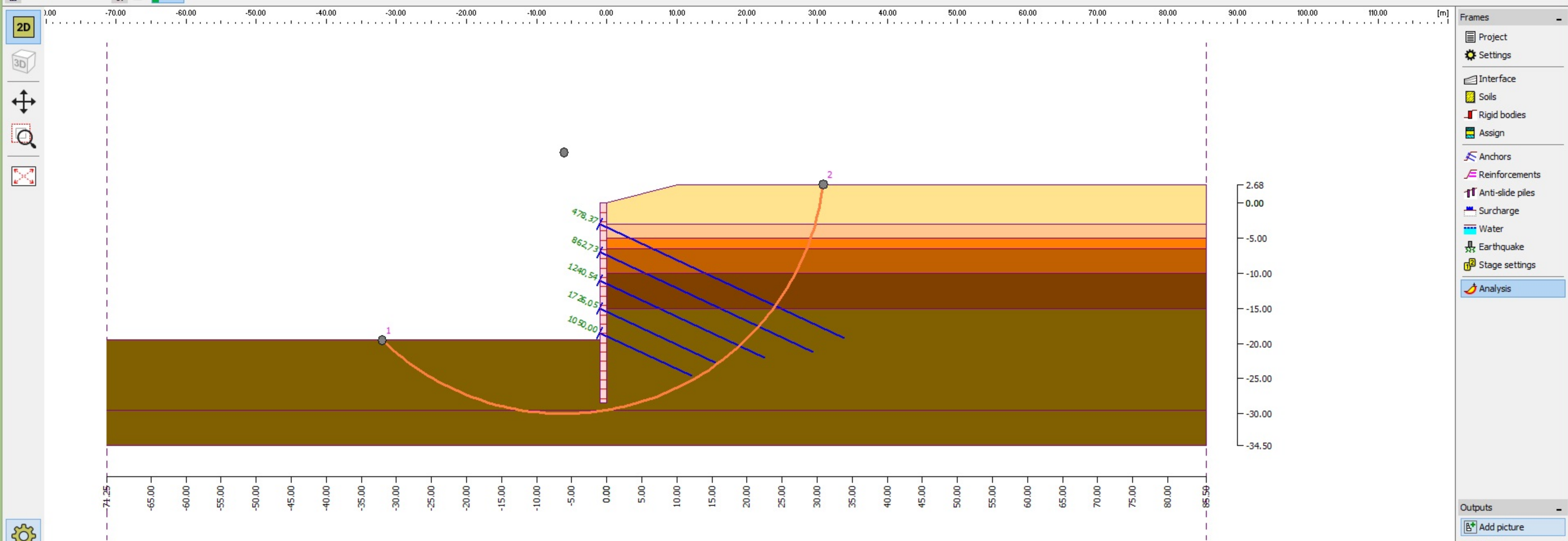
Computed max. allowable anchor force = 3548.75 kN

SATISFACTORY

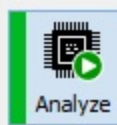
In detail

Outputs

- Add picture
- Internal stability : 0
- Total : 0
- List of pictures
- Copy view



Analysis :   [1]

Analyze 

Slip surface : circular  Replace graphically  Edit textually  Remove  Convert to polygon

Parameters of the analysis

Method : Morgenstern-Price 

Analysis type : Standard 

☐ Assume anchors as infinite

Circular slip surface

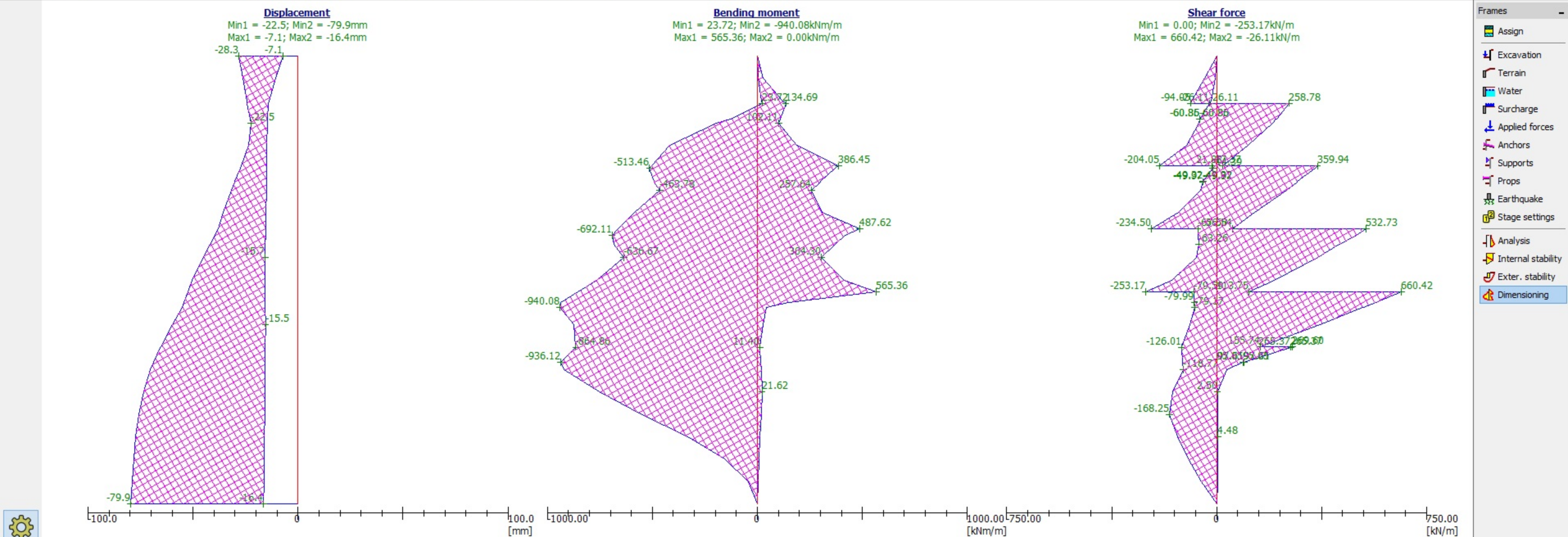
Center : x = -6.10 [m] z = 7.25 [m]

Radius : R = 37.25 [m]

Angles : $\alpha_1 = -44.10$ [°] $\alpha_2 = 82.95$ [°]

Slope stability verification (Morgenstern-Price)
Factor of safety = 1.59 > 1.50
Slope stability ACCEPTABLE

Detailed results



Analysis: [+] [-] [1] In detail

Stage : (envelopes from all stages) Edit

Geometry : Pile curtain a = 2.50 m; b = 2.50 m; h = 0.60 m

Information

Max. displacement	=	-79.9 mm
Max. shear force on cross section	=	1651.04 kN
Max. moment on cross section	=	2350.21 kNm

☒ Check cross-section

Reduct. coefficient of bearing capacity [-]

Reinforcement

Profile :	28.0 [mm]
No. of bars :	18.00 [pcs]
Cover :	40.0 [mm]

Results

SHEAR :	Required reinf.	
BENDING + COMPR. :	SATISFACTORY	(99.9%)
DESIGN PRINCIPLES :	SATISFACTORY	(16.7%)

Dimensioning

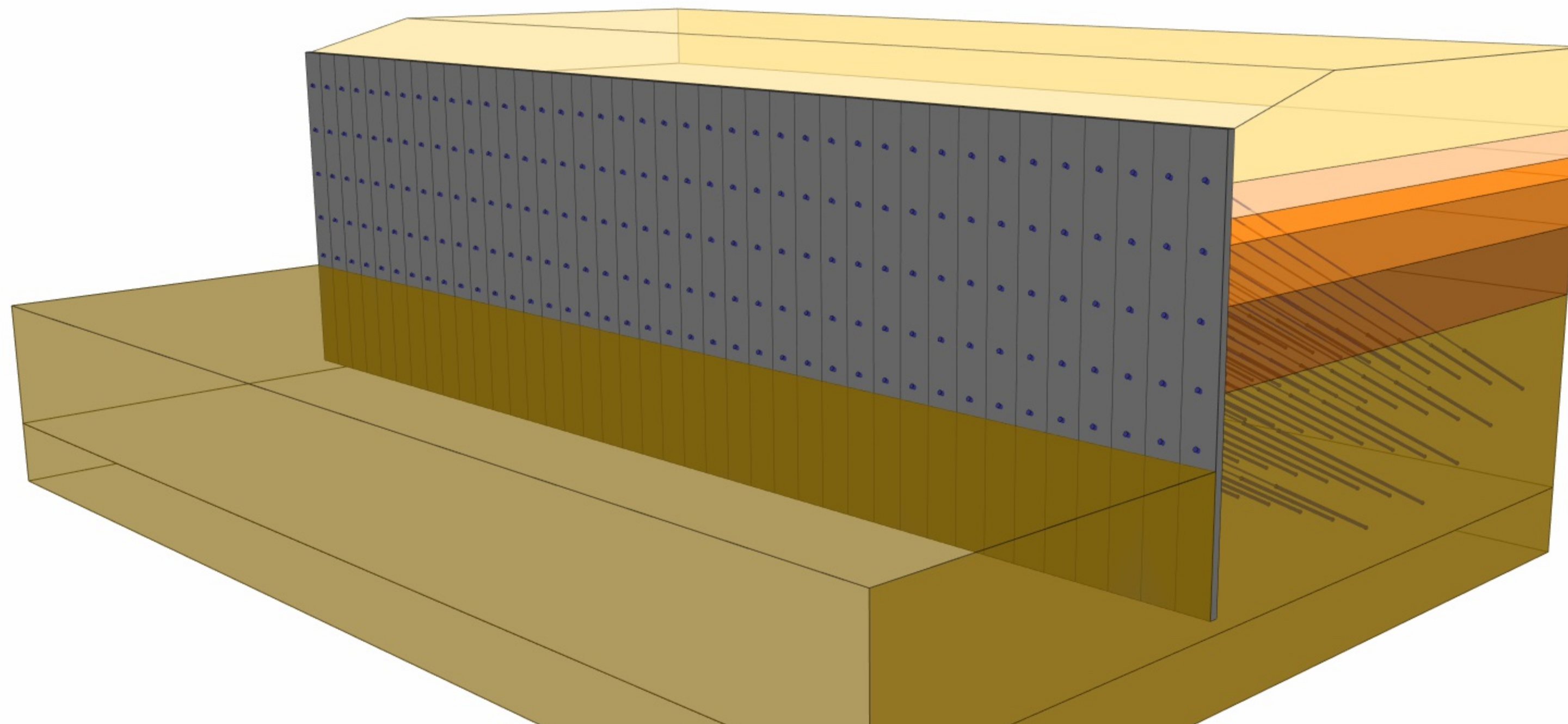
Outputs

- Add picture
- Dimensioning : 0
- Total : 0
- List of pictures
- Copy view



2D

3D



Frames

Assign

Excavation

Terrain

Water

Surcharge

Applied forces

Anchors

Supports

Props

Earthquake

Stage settings

Analysis

Internal stability

Exter. stability

Dimensioning

Soils and assignment

Profile Geometry Excavation Anchors Global

full color

full color

full color

full color

partial color

3D width :

☒ Draw background☒ Profile☒ Construction☒ Surcharge☒ Anchor

100.00 [m]

☒ Hatch☒ TransparentDefault
settings

Close

Outputs

Add picture

Profile and assignment : 0

Total : 0

List of pictures



Copy view





