

Slide Analysis Information

Odlagalisce Korte

Project Summary

File Name: Korte_VZD_1na2
 Slide Modeler Version: 7.013
 Project Title: Odlagalisce Korte
 Analysis: Analiza stabilnosti čelne brežine
 Author: B.Praznik,u.d.i.geol.
 Company: GECKO d.o.o.

Design Standard

Selected Type: Eurocode 7 - Design Approach 3

Type	Partial Factor
Permanent Actions: Unfavourable	1
Permanent Actions: Favourable	1
Variable Actions: Unfavourable	1.3
Variable Actions: Favourable	0
Effective cohesion	1.25
Coefficient of shearing resistance	1.25
Undrained strength	1.4
Weight density	1
Shear strength (other models)	1.25
Earth resistance	1
Tensile and plate strength	1
Shear strength	1
Compressive strength	1
Bond strength	1
Seismic Coefficient	1

Groundwater Analysis

Groundwater Method: Water Surfaces
 Pore Fluid Unit Weight [kN/m³]: 9.81
 Advanced Groundwater Method: None




Seismic

Advanced seismic analysis: No
 Staged pseudostatic analysis: No

Loading

Seismic Load Coefficient (Horizontal): 0.05
 Seismic Load Coefficient (Vertical): 0.025

Material Properties

Property	Nasutje	GM	Fliš
Color			
Strength Type	Mohr-Coulomb	Mohr-Coulomb	Generalized Hoek-Brown
Unit Weight [kN/m ³]	20	19	23
Cohesion [kPa]	0.5	0	
Friction Angle [deg]	35	35	
Unconfined Compressive Strength (intact) [kPa]			3000
nmb			0.431795
ns			0.000172232
na			0.538237
Water Surface	Water Table	Water Table	Water Table
Hu Value	1	1	0.8

Global Minimums

Method: bishop simplified

FS	1.138890
Center:	39.654, 51.683
Radius:	35.829
Left Slip Surface Endpoint:	49.487, 17.230
Right Slip Surface Endpoint:	59.499, 21.852
Resisting Moment:	1987.81 kN-m
Driving Moment:	1745.4 kN-m
Total Slice Area:	5.01974 m ²
Surface Horizontal Width:	10.0122 m
Surface Average Height:	0.501364 m