

Slide Analysis Information

Odlagalisce Sared - nasadi

Project Summary

File Name: S-11
 Slide Modeler Version: 7.013
 Project Title: Odlagalisce Sared - nasadi
 Analysis: Analiza stabilnosti čelne brežine
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Comments

Analiza stabilnosti v profilu Š-11 po nasutju

Design Standard

Selected Type: Eurocode 7 - Design Approach 2

Type	Partial Factor
Permanent Actions: Unfavourable	1.35
Permanent Actions: Favourable	1
Variable Actions: Unfavourable	1.5
Variable Actions: Favourable	0
Effective cohesion	1
Coefficient of shearing resistance	1
Undrained strength	1
Weight density	1
Shear strength (other models)	1
Earth resistance	1.1
Tensile and plate strength	1.1
Shear strength	1.1
Compressive strength	1.1
Bond strength	1.1
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	34	
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	1.354070
Center:	195.534, 57.045
Radius:	52.314
Left Slip Surface Endpoint:	169.878, 11.454
Right Slip Surface Endpoint:	178.968, 7.423
Resisting Moment:	3151.04 kN-m
Driving Moment:	2327.09 kN-m
Total Slice Area:	3.60354 m ²
Surface Horizontal Width:	9.08964 m
Surface Average Height:	0.396445 m