

Slide Analysis Information

Dovozna pot na odlagalisca

Project Summary

File Name: C-42
 Slide Modeler Version: 7.013
 Project Title: Dovozna pot na odlagalisca
 Analysis: Analiza stabilnosti v profilu C-42
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Comments

Analiza stabilnosti cestnega nasipa na pobočju.

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

1 Distributed Load present

Distributed Load 1

Distribution: Constant
 Magnitude [kPa]: 20
 Orientation: Vertical
 Load Action: Variable

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	0	
Friction Angle [deg]	37	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	1.024470
Center:	62.158, 42.505
Radius:	36.222
Left Slip Surface Endpoint:	42.418, 12.135
Right Slip Surface Endpoint:	57.088, 6.640
Resisting Moment:	2807.66 kN-m
Driving Moment:	2740.6 kN-m
Total Slice Area:	9.71923 m ²
Surface Horizontal Width:	14.6694 m
Surface Average Height:	0.66255 m