Program Details

Article number
ggu-01-113

Operating System
Windows 7/8/10

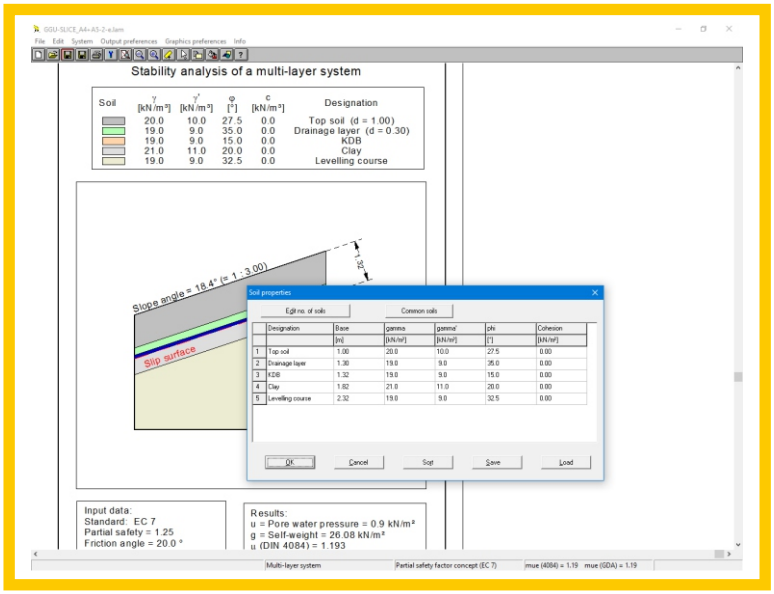
PROGRAM GGU-SLICE
GEOTECHNICAL ANALYSIS

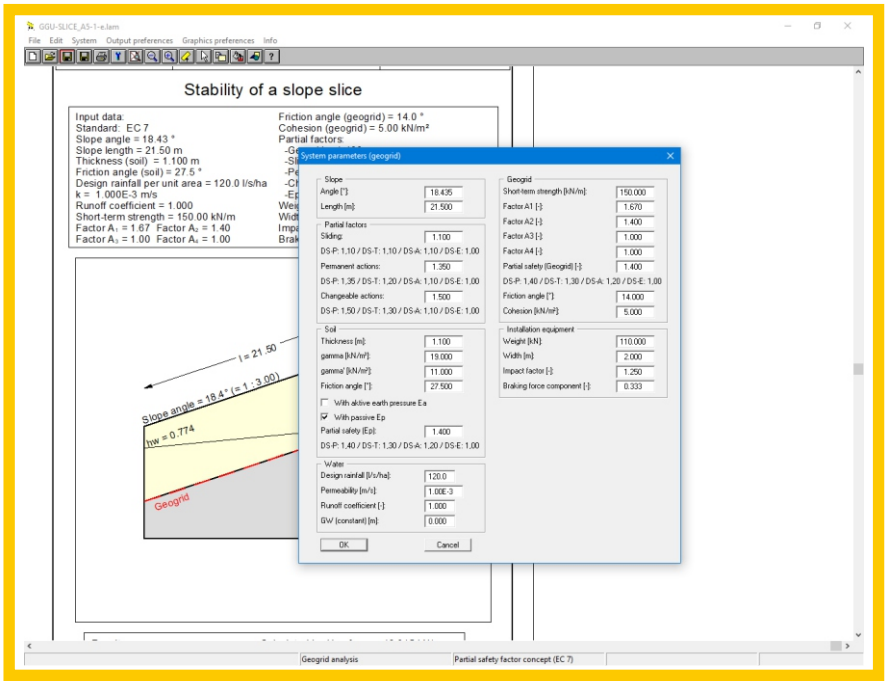
Description

GGU-SLICE *– Analysis of slope slice stability.*

Capabilities:

- *Choice of analysis using either partial safety factors to DIN 1054:2005 or EC 7 or global safety factors (DIN 1054 old)*
- *Input as single-layer, multi-layer or system using geogrids*
- *Analysis of wave pressure*
- *Calculation of safety factors to DIN 4084 or in accordance with the Recommendations of the Working Group on 'Geotechnical Aspects of Landfill and Brownfield Site' (GDA)*
- *Monte-Carlo simulation*
- *Soil properties can be selected from an expandable database of common soils*
- *Optimisation of friction angle, groundwater level, cohesion, slip plane or slope angle in single-layer system*
- *Graphical visualisation of system parameters*
- *Visualisation of the critical slip surface*
- *Legends for soil properties, input data and results*
- *Adopted standard, program name and version can be included in the input data legend*
- *User-designed output sheet*
- *Print or copy screen sections, e.g. for transfer to a word processor*
- *Integrated Mini-CAD system for additional annotation of graphics*





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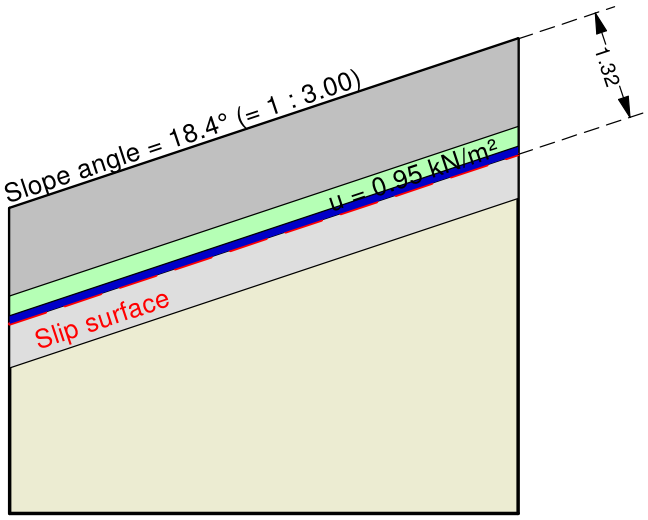
Surface sealing

Stability analysis of a multi-layer system

Soil	γ [kN/m³]	γ' [kN/m³]	φ [°]	c [kN/m³]	Designation
	20.0	10.0	27.5	0.0	Top soil (d = 1.00)
	19.0	9.0	35.0	0.0	Drainage layer (d = 0.30)
	19.0	9.0	15.0	0.0	KDB
	21.0	11.0	20.0	0.0	Clay
	19.0	9.0	32.5	0.0	Levelling course



Input data:
Standard: EC 7
Partial safety = 1.25
Friction angle = 20.0 °
Cohesion = 0.0 kN/m²
Slope angle = 18.4 °
Slip surface = 1.320 m
Groundwater level = 1.225 m

Results:
u = Pore water pressure = 0.9 kN/m²
g = Self-weight = 26.08 kN/m²
μ (DIN 4084) = 1.193
μ (GDA) = 1.188