

Program details

Windows 7/8/10

OPERATING SYSTEM

ARTICLE NUMBER

ggu-01-118

Description

GGU-CANTILEVER – Analysis and design of cantilever walls. Among other things, the program simplifies optimisation of spur width and reinforced concrete design.

Capabilities:

- Choice of analysis using either partial safety factors to DIN 1054:2010, EC 7, Austrian Standard ÖNORM EN 1997-1 or global safety factors (DIN 1054 old)
- Reinforced concrete design and crack width analysis compliant with EC 2
- Overall system stability analysis (sliding, overturning, bearing capacity)
- Hydraulic heave safety and buoyancy safety analysis
- ,Heave of anchor soil' analysis
- Bearing capacity safety and settlement analysis to DIN 4017 and DIN 4019
- EQU analysis
- Deep-seated stability analysis with optimisation of anchor lengths
- Anchor steel design
- System input using absolute heights
- Soil properties can be selected from an expandable database of common soils
- Berms on the active and passive sides
 Analysis using active earth pressure, at-rest earth pressure or increased active earth pressure
- Active earth pressure calculation to DIN 4085 or after Culmann
- Passive earth pressure calculation to DIN 4085:2017, Streck, Caquot/Kerisel or after Culmann
- Hydraulic gradient consideration on active and the passive sides
- Consideration of displacement and action boundary conditions, anchors, struts etc.
- Bounded and double-bounded surcharges on active and passive sides
- Consideration of pre-stresses and pre-deformations
- Seismic effects via additional horizontal loads or earth pressure coefficients alteration to EC 8
- Limiting depth analysis using p % of overburden stress, a multiple of footing width b' or a fixed value
- Choice of earth pressure redistributions
- Interface to the GGU-STABILITY program (slope failure analyses)





- Choice of result visualisations, among others for earth pressure on equivalent wall, water pressure, moments, shear force, normal force, displacement, soil pressure, settlements
- Adopted standard, program name and version can be included in the General 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

PROGRAM GGU-CANTILE<mark>VER</mark> GEOTECHNICAL ANALYSIS

