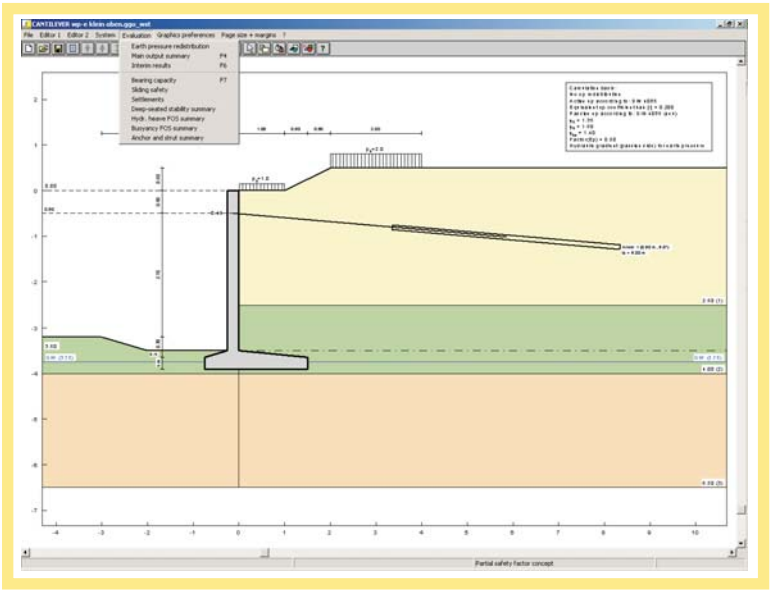
Program details

ARTICLE NUMBER
ggu-01-118

OPERATING SYSTEM
Windows 2000/XP/Vista

PROGRAM GGU-CANTILEVER
GEOTECHNICAL COMPUTATION

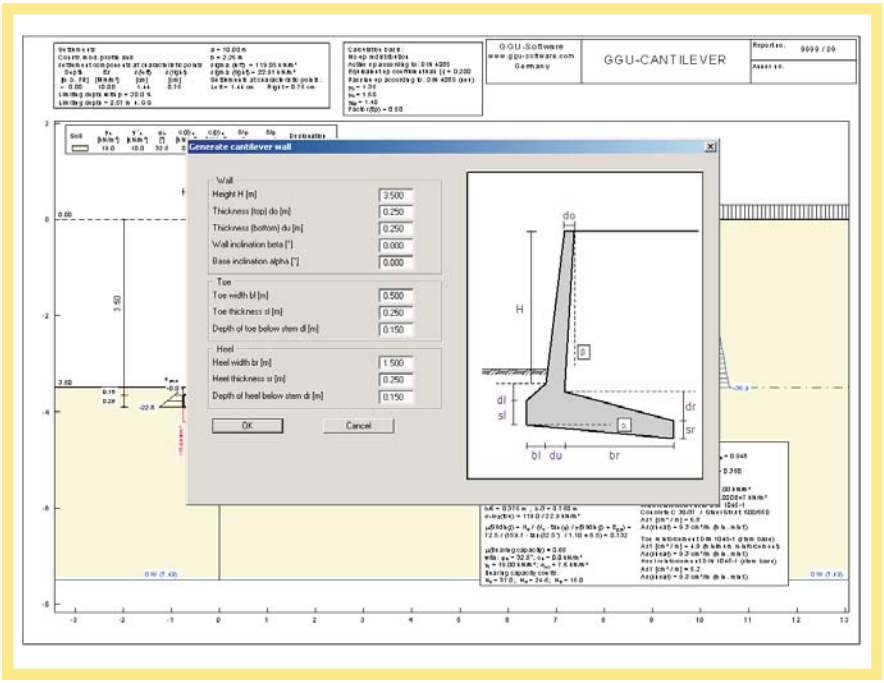


Description

GGU-CANTILEVER *- Analysis and design of cantilever walls using global and partial safety factor concepts. Among other things, the program simplifies optimisation of spur width and reinforced concrete design.*

Capabilities:

- *System input using absolute heights*
- *Berms on the active and passive sides*
- *Bounded and double-bounded surcharges on active and passive sides*
- *Analysis using active earth pressure, at-rest earth pressure or increased active earth pressure*
- *Active earth pressure coefficients to DIN 4085 or user-defined values*
- *Passive earth pressure coefficients to DIN 4085 (new), Streck, Caquot/Kerisel, DIN 4085 (old) or user-defined values*
- *Choice of hydraulic gradient consideration on active and the passive sides*
- *Analysis of overall system stability (sliding, overturning, bearing capacity)*
- *Analysis of hydraulic heave safety and buoyancy safety*
- *Examines bearing capacity 5° condition to DIN 4017*
- *Settlement analysis to DIN 4019*
- *Limiting depth analysis using p % of overburden stress, a multiple of footing width b' or a fixed value*
- *Consideration of anchors and struts*
- *Deep-seated stability analysis with optimisation of anchor lengths*
- *Reinforced concrete design to DIN 1045*
- *Crack width analysis to DIN 1045*
- *Anchor steel design*
- *Input of action and displacement boundary conditions and much more*
- *Choice of earth pressure redistributions (among others to EAB 1988 or EAB 2006)*
- *Choice of result visualisations, among others for earth pressure on equivalent wall, water pressure, moments, shear force, normal force, displacement, soil pressure, settlements*
- *Consideration of pre-stresses and pre-deformations*
- *Consideration of seismic loads*
- *Interface to the GGU-STABILITY program (slope failure analyses)*



- *User-designed output sheet*
- *Copy screen sections, e.g. for transfer to a word processor*
- *Mini-CAD system for additional annotation of graphics*

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