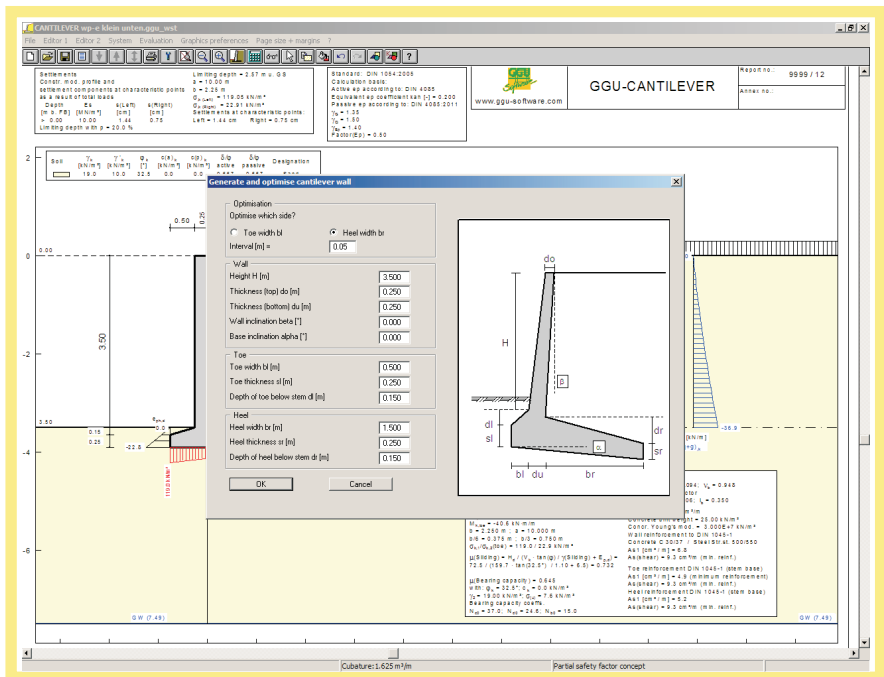
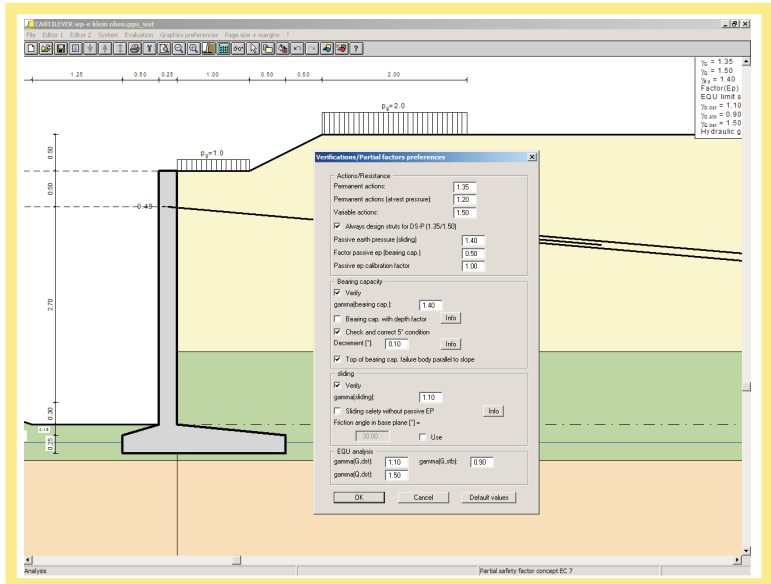


**Description**

**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
- Choice of analysis using either partial safety factors to DIN 1054:2005 or EC 7 or global safety factor (DIN 1054 old)
- 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 4085:2011, Streck, Caquot/Kerisel or user-defined values
- Choice of hydraulic gradient consideration on active and the passive sides
- Consideration of displacement and action boundary conditions, anchors, struts etc.
- 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
- Analysis of overall system stability (sliding, overturning, bearing capacity)
- Analysis of hydraulic heave safety and buoyancy safety
- EQU analysis compliant with EC 7
- Deep-seated stability analysis with optimisation of anchor lengths
- Reinforced concrete design to DIN 1045-1
- Crack width analysis to DIN 1045-1
- Anchor steel design
- 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
- Seismic effects via additional horizontal



- loads and/or altered earth pressure coefficients
- Interface to the GGU-STABILITY program (slope failure analyses)
- 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

