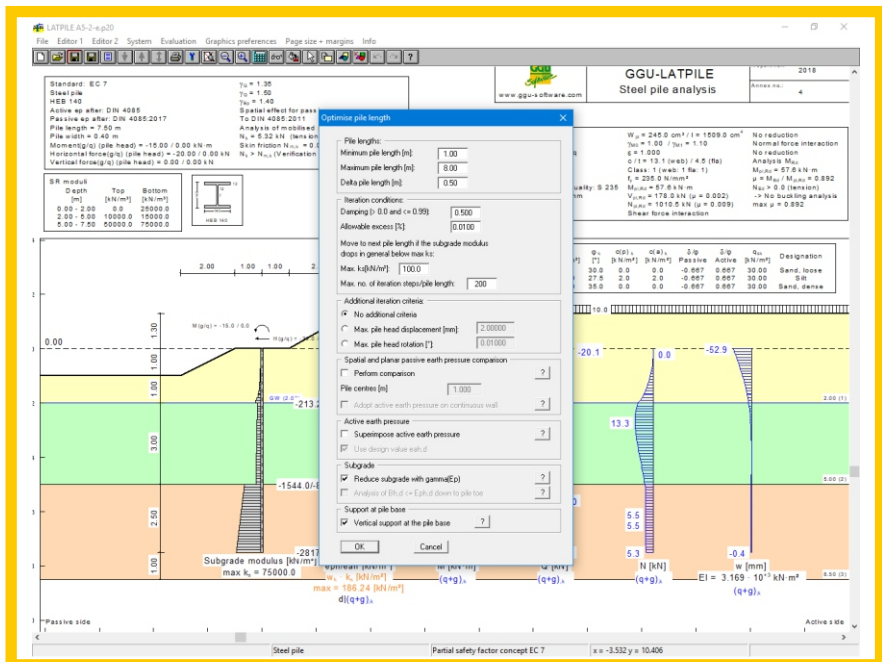
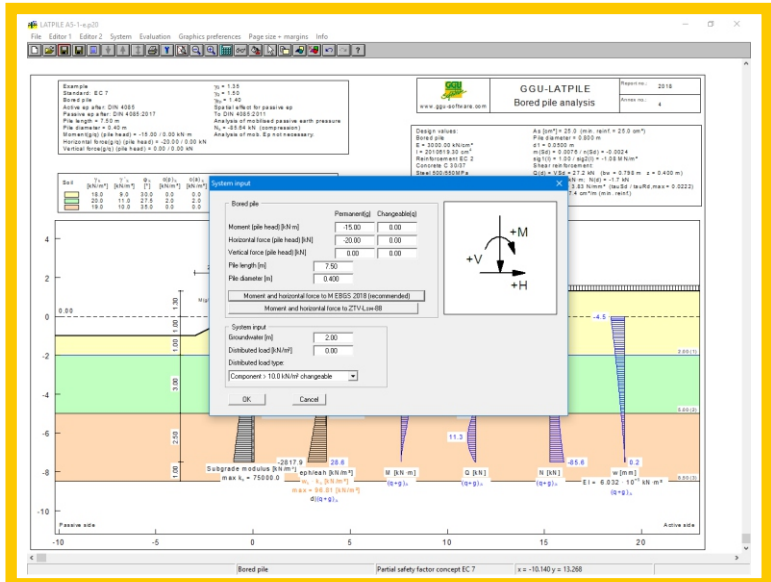


Description

GGU-LATPILE – Analysis and design of elastically bedded piles.

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)
- Consideration of linearly variable modulus of subgrade reaction
- Steel analysis using EC 3
- Expandable database for steel sections and pipe sections
- Simulation of sheet pile sections corrosion
- Reinforced concrete design and crack width analysis compliant with EC 2
- Buckling analysis to DIN EN 1993-1-1 using 2nd order theory
- Analysis of sum V
- System input using absolute heights
- Soil properties can be selected from an expandable database of common soils
- Loading according to M EBGs-Lsw 2018 can be determined
- Consideration of active and passive berms
- Consideration of active and passive bounded surcharges
- Analysis using active earth pressure, at-rest earth pressure and increased active earth pressure
- Active earth press. coefficients to DIN 4085
- Passive earth pressure calculation to DIN 4085:2017, Streck, Caquot/Kerisel, Culmann/Vogt or Culmann
- Three-dimensional passive earth pressure to DIN 4085:2011, Weißenbach, Vogt or DIN 4085:2011 planar slip surfaces
- Start depth for calculating passive earth pressure can be entered
- Pile length optimisation
- Automatic computation of second moment of area for square and bored piles
- Consideration of seismic effects via altered earth pressure coefficients to EC 8
- Interface to the GGU-STABILITY (slope stability analysis)
- Choice of result presentation for moments, shear force, axial force, displacement or earth pressure
- Analysis results as output table



- 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

