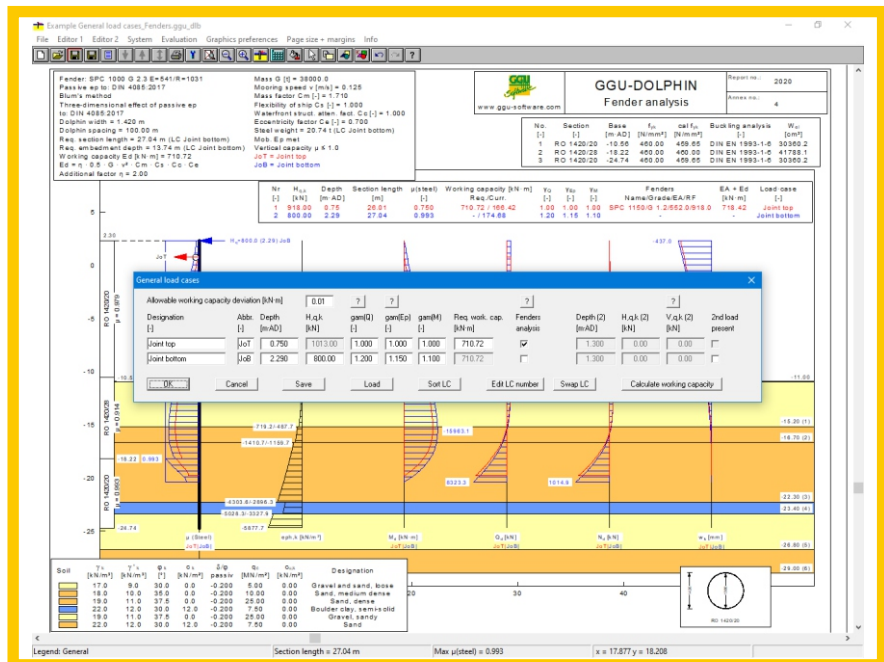
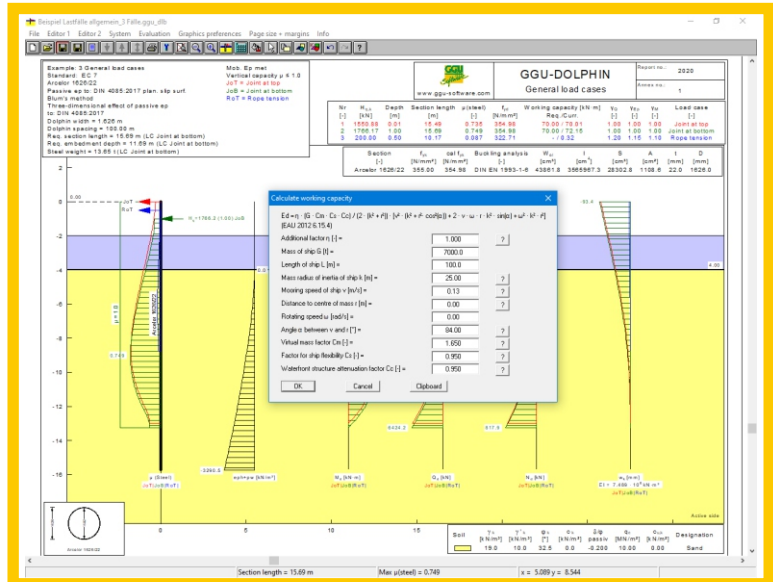


Description

GGU-DOLPHIN – Analysis and design of dolphins according to EAU 2012.

Capabilities:

- Analysis using Blum's method or p-y method (modulus of subgrade reaction method with non-linear spring characteristics)
- Analysis using partial safety factors to EC 7
- Determine the required working capacity using a variety of equations
- Comparative analysis of several load cases in a single computation or analysis of selected load cases
- Fender analysis by determining the optimum fender
- Analysis using different sections for a dolphin pile
- Analysis using a selected section or by determining the optimum section
- Graphic-aided optimisation of section length when analysing different sections
- Expandable fender database
- Steel analysis using EC 3
- Expandable database for sections
- Simulation of steel sections corrosion
- Buckling analysis with f_y, k reduction or according to DIN EN 1993-1-6
- Analysis of sum V
- System input using absolute heights
- Definition of up to 10 load cases possible
- Soil properties can be selected from an expandable database of common soils
- Passive earth pressure calculation to DIN 4085:2017 or DIN 4085:2017 planar slip surfaces
- Three-dimensional passive earth pressure to DIN 4085:2017
- Consideration of seismic effects via altered earth pressure coefficients to EC 8
- Interface to the GGU-LATPILE (analysis and design of elastically bedded piles)
- Result presentation for earth pressure, moment, shear force, normal force and displacement in system graphics
- Analysis results can also be presented in different legends and as output table
- Visualisation of $p = f(y)$ function curves in a legend
- Visualisation of the adopted section as a sketch in a legend



- 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

