Program details

Article number
ggu-01-101

Operating System
Windows 7/8/10

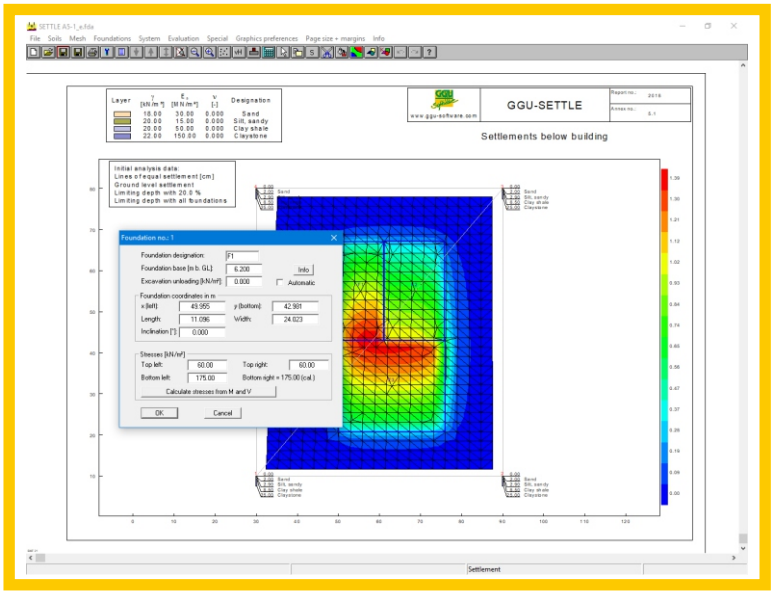
PROGRAM GGU-SETTLE
GEOTECHNICAL ANALYSIS

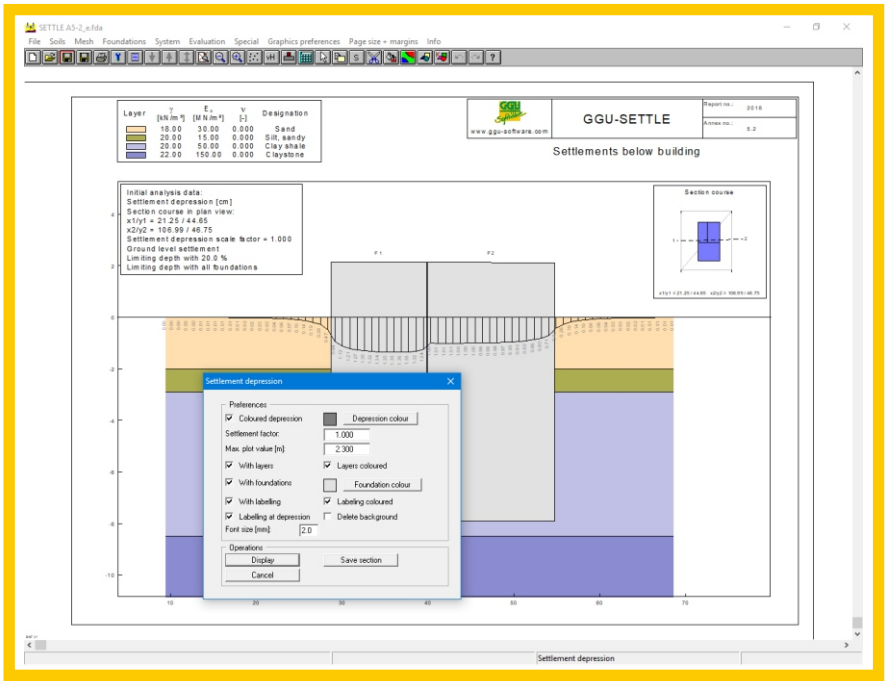
Description

GGU-SETTLE *– Settlement analysis of triangular and rectangular foundations including mutual influence of neighbouring foundations.*

Capabilities:

- *Generation of footing foundations, circular foundations and annular foundations*
- *Consideration of vibrodisplacement compaction after Priebe*
- *Settlement analysis at any point inside or outside of the foundation*
- *Settlement analysis at any depth*
- *Settlement analysis at any layer base*
- *Settlement analysis of individual layers*
- *Consideration of kappa correction coefficients (DIN 4019)*
- *Excavation unloading can be taken into account.*
- *With a given excavation unloading, the resulting load re-application can be taken into account with a constrained modulus for load re-application*
- *Limiting depth analysis using p % of overburden stress, a multiple of foundation width or a fixed value*
- *Graphics oriented input of system geometry*
- *Soil properties can be selected from an expandable database of common soils*
- *Automatic computation of Young's modulus from Es and nu*
- *Settlement presentation in plan or in any vertical sections as normal, colour-filed or 3D contours*
- *Subgrade reaction presentation as normal, colour-filed or 3D contours*
- *Analysis and presentation of settlement depression section*
- *Analysis and presentation of stress distribution (also as contours = stress bulb)*
- *Differential settlement presentation as contour lines*
- *Presentation of analysis results as tables*
- *Automatic display of section course in a legend*
- *Soil properties and general information on your analysis data displayed in legends*
- *User-defined design of output sheet*
- *Print or copy screen sections, e.g. for transfer to a word processor*





- *Integrated Mini-CAD system for additional annotation of graphic*

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Layer	γ [kN/m³]	E_s [MN/m²]	ν [-]	Designation
	18.00	4.00	0.000	Clay
	11.00	50.00	0.000	Sand

Initial analysis data:
Lines of equal settlement [cm]
Section course in plan view:
x1/y1 = 15.95 / 43.48
x2/y2 = 16.16 / 14.19
Limiting depth = base of profile

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GGU-SETTLE
using 'triangular foundations'

Report no.: 2018
Annex no.: 4

Settlement analysis below embankment

Settlement contours [cm]