



Program details

ARTICLE NUMBER

ggu-01-112

OPERATING SYSTEM

Windows 7/8/10

Description

GGU-CONSOLIDATE – Analysis of one-dimensional consolidation processes in

- single-layered systems (analytical)
- multi-layered systems (numerical)
- single- or multi-layered systems with vertical drains.

Capabilities:

- Soil properties can be selected from an expandable database of common soils
- User-defined porewater pressure distribution at time $t = 0$
- Generation of porewater pressure distribution resulting from footing loads
- Drainage conditions separately definable for the upper and lower layer boundaries
- Secondary settlements may be taken into consideration
- Time-settlement analysis possible using compression index
- Time-dependent system loading (increase/decrease) possible
- Analysis with subsequent installation of vertical drains possible
- Depth-oriented visualisation of porewater pressure or consolidation ratio
- Time-dependent visualisation of degree of consolidation, settlement or porewater pressure at defined depth
- Additional, real settlement values can be displayed in the time-settlement diagram
- Loading curve visualisation (numerical)
- Time axes may be dimensionless, with date or logarithmic
- Result output in ASCII format
- User-definable positioning and sizing of individual graphics elements and legends
- Print or copy screen sections, e.g. for transfer to a word processor
- Integrated Mini-CAD system for additional annotation of graphics



