

## Program Details

## ARTICLE NUMBER

ggu-01-111

## OPERATING SYSTEM

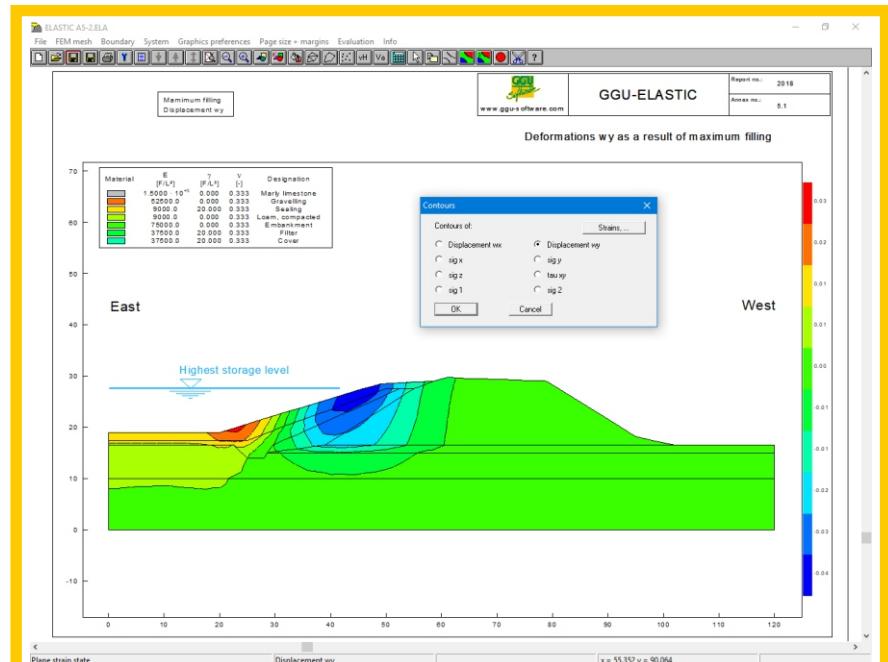
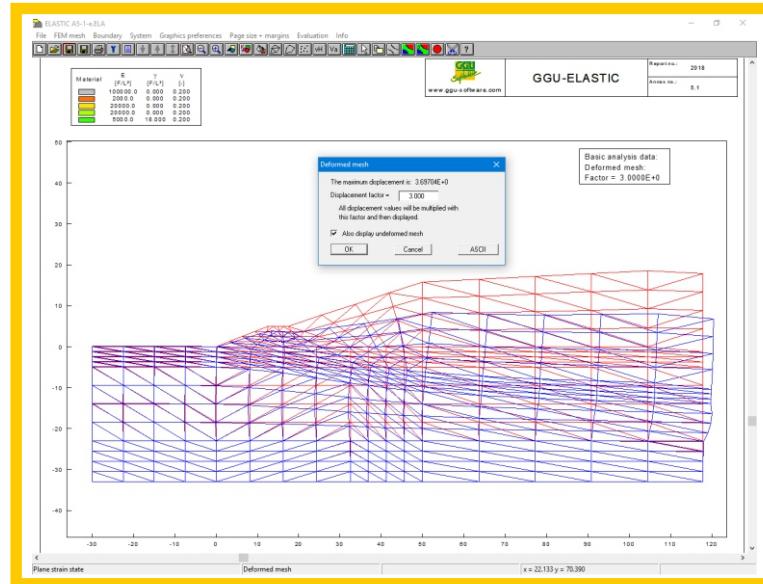
Windows 7/8/10

## Description

**GGU-ELASTIC** – Analysis of plane and axis-symmetrical deformations using the finite element method.

### Capabilities:

- Linear-elastic analysis (Hooke's law)
- Powerful mesh generator with mesh refinement and mesh optimisation
- Import and export of ASCII data
- FEM mesh coordinates can be imported from a table via the Windows clipboard
- Graphically oriented data input and editor for boundary conditions such as displacements and point, line or area loads
- Visualisation of displacements, stresses and strains as circle chart or as normal, colour-filled or 3D (array) contours
- Visualisation of the deformed mesh
- Animated, on-screen visualisation of mesh deformation
- Analysis and visualisation of displacements or forces in user-defined sections
- Visualisation of shear line and Mohr's circle of stress for user-defined elements
- ASCII export of deformed mesh
- Result output table
- Freely definable output sheet
- Print or copy screen sections, e.g. for transfer to a word processor
- Integrated Mini-CAD system for additional annotation of graphics



# PROGRAM GGU-ELASTIC

## GEOTECHNICAL ANALYSIS

Material	$E$ [ $\text{N/mm}^2$ ]	$\gamma$ [ $\text{kN/m}^3$ ]	$v$ [-]	Designation
	$15000 \cdot 10^{-5}$	0.000	0.333	Marry limestone
52500.0	0.000	0.333	Gravel	
9000.0	20.000	0.333	Sealing	
9000.0	0.000	0.333	Loam, compacted	
75000.0	18.000	0.333	Fill	

