Program Details

OPERATING SYSTEM
Windows 7/8/10

ARTICLE NUMBER
ggu-04-006
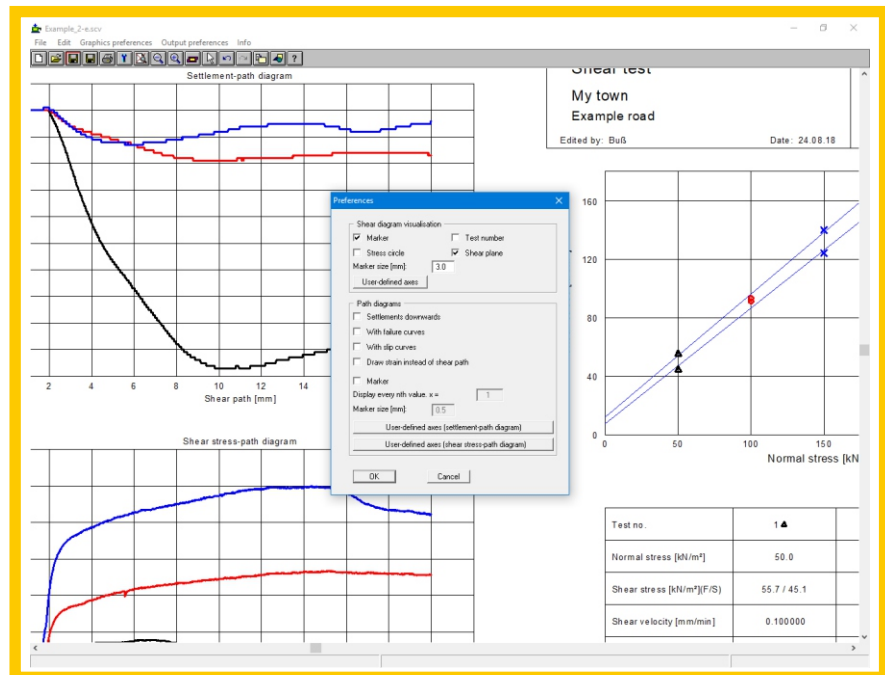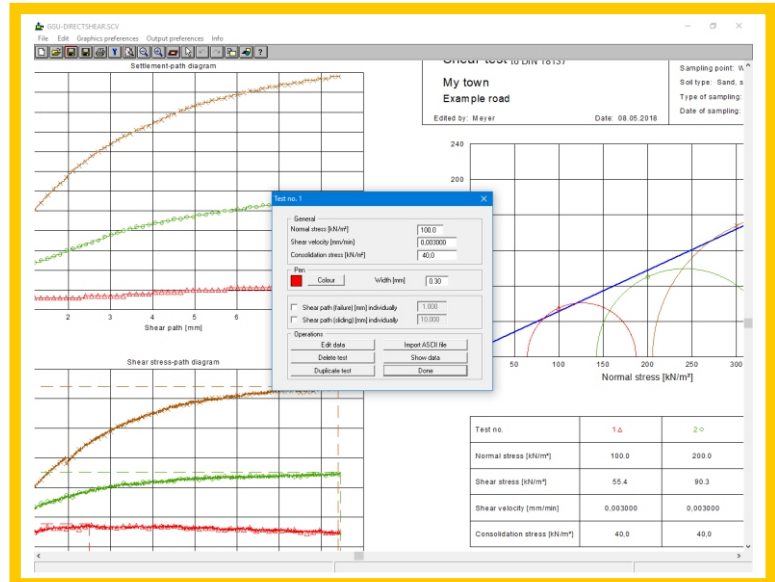
Description

GGU-DIRECTSHEAR – *Evaluation and visualisation of boxed shear tests.*

Capabilities:
- *Import ASCII data from shear apparatus of different manufacturers*
- *Import and export general ASCII files*
- *Data input with activation and automatic output sheet adaption for settlement-displacement diagram and shear stress-displacement diagram*
- *Merging of different test files is possible*
- *Result presentation in shear diagram as shear test or triaxial test*
- *Graphical presentation of shear plane automatically or with user-defined axes*
- *Graphic presentation of stress circles*
- *Settlement-displacement diagram and shear stress-displacement diagram can be displayed with user-defined axes*
- *Settlements in settlement-displacement diagram can be directed downwards*
- *Presentation of test data in table form*
- *Free design of form (A4 and A3)*
- *Print or copy screen sections, e.g. for transfer to a word processor*
- *Integrated Mini-CAD system for additional annotation of graphics*

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Shear test to DIN 18137

My town
Example road

Edited by: Meyer

Date: 08.05.2018

Report: 2018
Annex: 3

Test number: SH 15 /1
Sampling point: Well point 1
Soil type: Sand, silty
Type of sampling: disturbed
Date of sampling: 03.05.2018

Mohr-Coulomb failure envelope diagram — Shear stress [kN/m²] vs Normal stress [kN/m²]

Test no.	1 △	2 ○	3 ✕
Normal stress [kN/m²]	100.0	200.0	300.0
Shear stress [kN/m²]	55.4	90.3	148.0
Shear velocity [mm/min]	0.003000	0.003000	0.003000
Consolidation stress [kN/m²]	40.0	40.0	40.0

Friction angle =	24.8 degrees
Cohesion =	5.4 kN/m²
Correlation =	0.990

Settlement-path diagram — Settlement [mm] vs Shear path [mm]

Shear stress-path diagram — Shear stress [kN/m²] vs Shear path [mm]