

Program Details

ARTICLE NUMBER

ggu-04-001

OPERATING SYSTEM

Windows 7/8/10

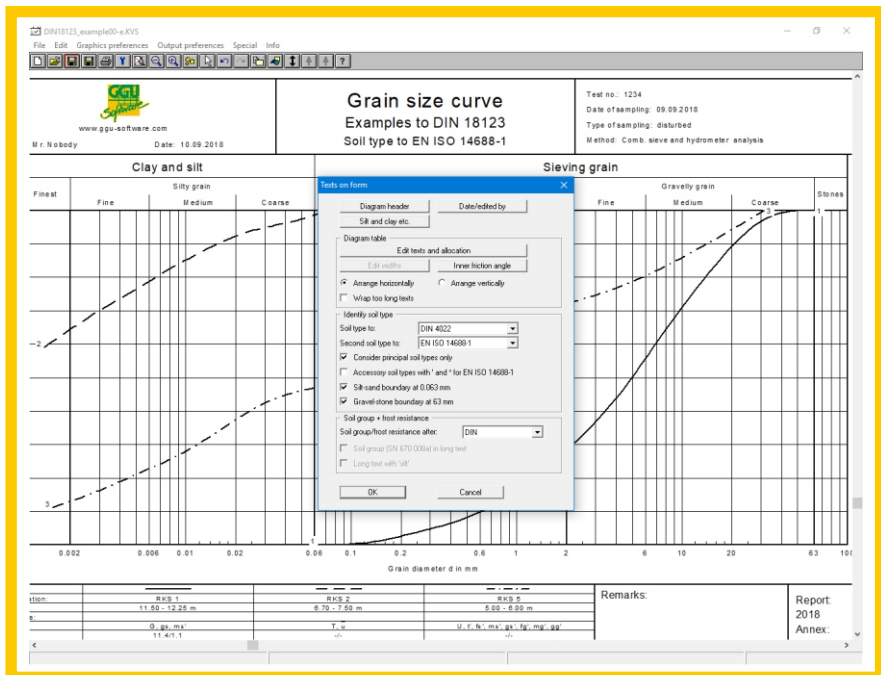
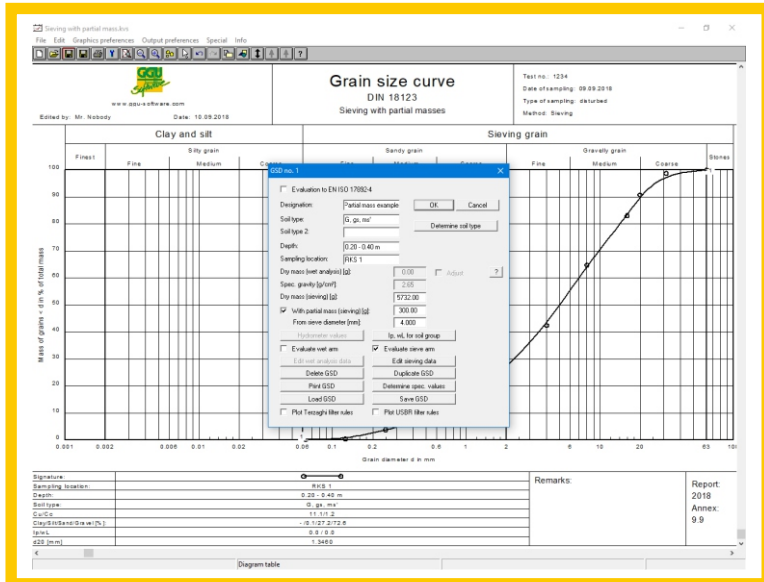
Description

GGU-SIEVE – Evaluation and presentation of grain size distribution via:

- sieve analysis
- hydrometer analysis
- combined sieve and hydrometer analyses.

Capabilities:

- Variable sieving input (before/after sedimentation, partial mass weights, cumulative weight, in [g] or [%])
- Define and save individual sieve sets
- Hydrometer input after DIN 18123 or EN ISO 17892-4
- Output of test results as graphics of percentages of grain fractions and as laboratory logs
- Determine soil types to DIN 4022, EN ISO 14688-1, SEP or ASTM
- Display two soil types in table
- Compute uniformity coefficients U and coefficients of curvature Cu
- Determine the hydraulic conductivity in accordance with the „Merkblatt Anwendung von Kornfiltern an Bundeswasserstraßen (MAK 2013)“ (Fact Sheet for the Application of Grain Filters on Waterways), published by BAW in Karlsruhe
- Determine the grain index
- Determine the soil group and frost resistance to German standards (DIN), Swiss standard SN 670 008a or USC (ASTM 2487)
- Take the coefficient of plasticity and the liquid limit into consideration for fine-grained soils
- Visualise Therzaghi and/or USBR filter criteria
- Estimate friction angle after Lang/Huder
- Determine any number of passage values (e.g. grain sizes at d₁₀, d₃₀, d₅₀, d₆₀)
- Mix grading curves using variable constituents of existing grading curves
- Cumulate up to 50 existing grading curves via Extra GSDs (grain size distributions)
- Visualise grain size envelopes or boundary ranges via Extra GSDs
- Separate a GSD for verif. of suffosion safety
- Examine filter stability to Cistin/Ziems or of geotextile filters and examine suffosion stability to Kenney/Lau and Burenkova via export to GGU-FILTER-STABILITY application



- Determine grading curves using user-definable smoothing out procedures
- Variable visualisation of minimum and maximum grain size range in graphics - up to 630 mm grain size diameter (> 200 mm = blocks)
- Variable grading curve visualisation (user-definable line types and colours)
- Design your own graphics and log pages
- Print or copy screen sections, e.g. for transfer to a word processor
- Integrated Mini-CAD system for additional annotation of graphics

