

**Description**

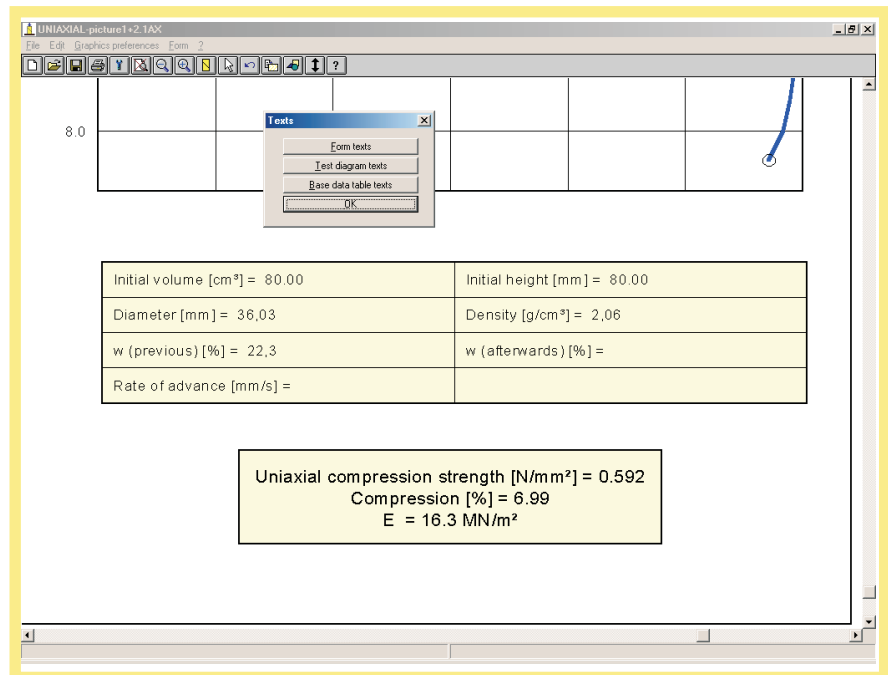
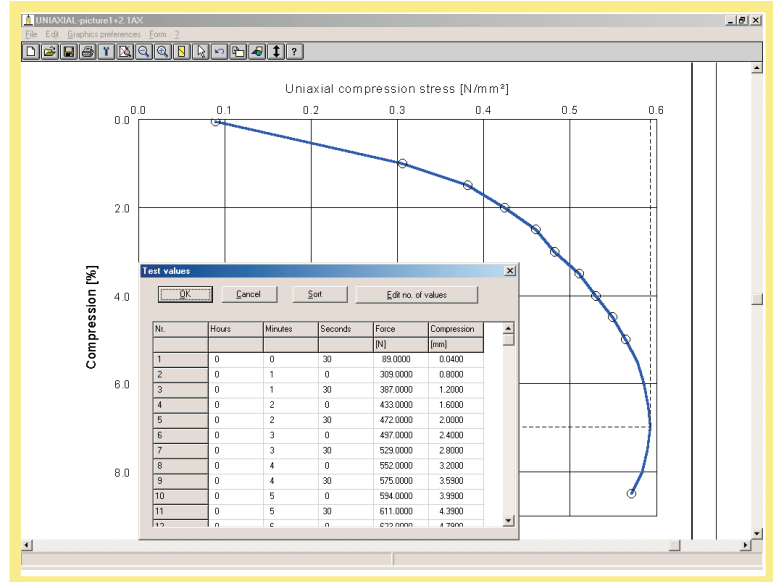
**GGU-UNIAXIAL**

The GGU-UNIAXIAL program allows the evaluation and graphical presentation of direct shear tests. After input of the initial volume and height, and the test results (time, force, compression), a diagram is presented. It is possible to change the preferences for the graphic presentation:

- Compression as [%] or [mm]
- With or without the test curve
- Axis divisions (compression) linear, logarithmic, root scale

A MiniCAD system is available for additional labelling of the graphics. The output of the results in a protocol or as a diagram can be carried out on the screen, or to a printer or plotter.

As data input is in accordance with Windows conventions it can be learnt almost without the use of a handbook. The graphic output supports true-type fonts, colour output and bitmap graphics.



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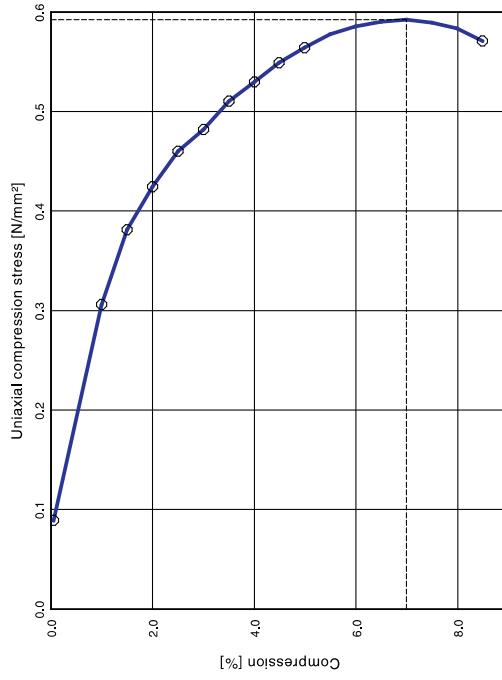
Report: 9999 / 03  
Appendix: 4

**Uniaxial test** according to DIN 18 136  
**Example**  
Braunschweig

Processor: Otto

Date: 13.02.03

Sampling point: B1  
Depth: 0.2 - 0.5 m  
Soil type: T, u  
Type of sampling: disturbed  
Sample taken on: 01.02.03



Initial volume [cm³] = 80.00	Initial height [mm] = 80.00
Diameter [mm] = 36.03	Density [g/cm³] = 2.06
w (previous) [%] = 22.3	w (afterwards) [%] =
Rate of advance [mm/s] =	

Uniaxial compression strength [N/mm²] = 0.592  
Compression [%] = 6.99  
E = 16.3 MN/m²

Time [h]	Time [min]	Time [sec]	Force [N]	dh [mm]	ε [%]	Area [mm²]	σ [N/mm²]
0	0	0	0.000	0.000	0.000	1000.00	0.000
0	0	30	89.000	0.040	0.050	1000.50	0.089
0	1	0	309.000	0.800	1.000	1010.10	0.306
0	1	30	387.000	1.200	1.500	1015.23	0.381
0	2	0	433.000	1.600	2.000	1020.41	0.424
0	2	30	472.000	2.000	2.500	1025.64	0.460
0	3	0	497.000	2.400	3.000	1030.93	0.482
0	3	30	529.000	2.800	3.500	1036.27	0.510
0	4	0	552.000	3.200	4.000	1041.67	0.530
0	4	30	575.000	3.590	4.488	1046.98	0.549
0	5	0	594.000	3.990	4.988	1052.19	0.564
0	5	30	611.000	4.390	5.487	1058.06	0.577
0	6	0	623.000	4.790	5.988	1063.69	0.586
0	6	30	631.000	5.190	6.488	1069.38	0.590
0	7	0	637.000	5.590	6.987	1075.12	0.592
0	7	30	637.000	5.990	7.487	1080.94	0.589
0	8	0	634.000	6.390	7.987	1086.81	0.583
0	8	30	624.000	6.790	8.488	1092.75	0.571