



Program Details

ART.-No.

ggu-04-018

OPERATING SYSTEM

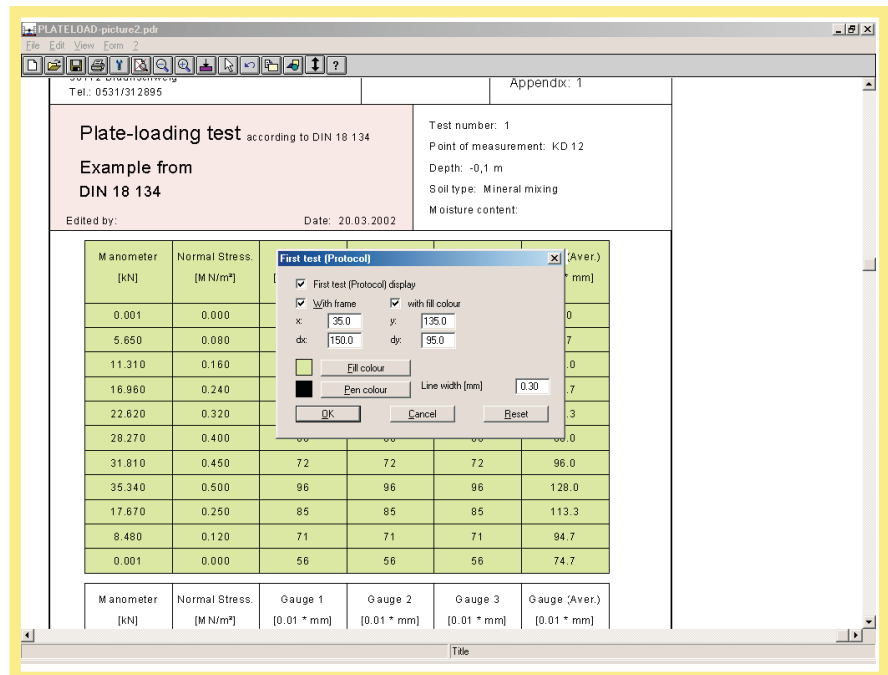
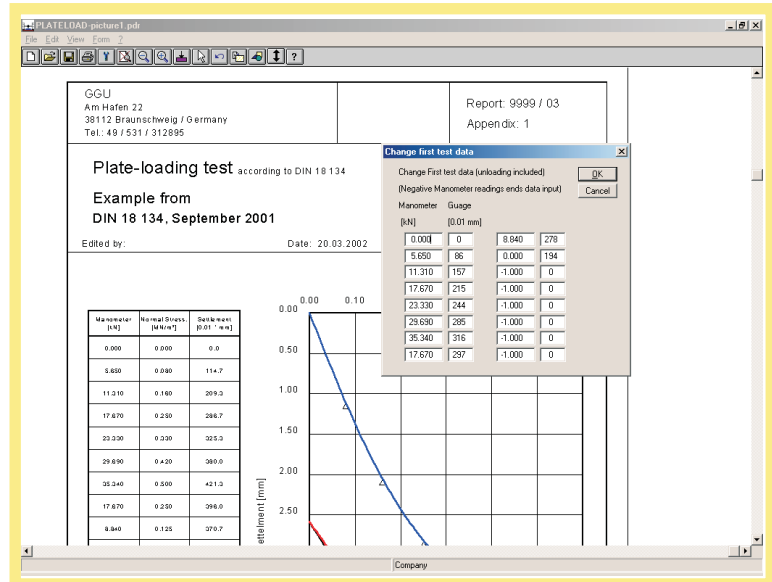
Windows 95/98/ME, NT/2000/XP

Description

GGU-PLATELOAD - plate loading tests

Evaluation and graphical presentation of plate loading tests. After input of manometer readings for the load and unload stages, and the readings of settlement (compaction), the test results are graphically presented on a form as compaction-normal stress diagrams. A MiniCAD system is available for additional labelling of 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 the true-type fonts provided by Windows, so that you can be sure of an excellent layout. Colour output and bitmap graphics are supported.



PROGRAM GGU-PLATELOAD
FIELD INVESTIGATION AND LABORATORY ANALYSIS

GGU Am Hafen 22 38112 Braunschweig Tel.: 0531/312895		Report: 9999 / 03 Appendix: 1																																					
Plate-loading test according to DIN 18 134 Example Braunschweig		Test number: 1 Point of measurement: P 1 Depth: -0,2 m Soil type: Mineral mixing Station: Axis 5-7 / J-K																																					
Edited by: Ko		Date: 19.06.2003																																					
		<table border="1"> <thead> <tr> <th>Manometer [MN/m²]</th> <th>Settlement [0.01 * mm]</th> </tr> </thead> <tbody> <tr><td>0.000</td><td>0.0</td></tr> <tr><td>0.080</td><td>14.0</td></tr> <tr><td>0.160</td><td>36.0</td></tr> <tr><td>0.240</td><td>54.0</td></tr> <tr><td>0.320</td><td>70.0</td></tr> <tr><td>0.400</td><td>86.0</td></tr> <tr><td>0.450</td><td>96.0</td></tr> <tr><td>0.500</td><td>106.0</td></tr> <tr><td>0.250</td><td>94.0</td></tr> <tr><td>0.120</td><td>80.0</td></tr> <tr><td>0.000</td><td>48.0</td></tr> <tr><td>0.080</td><td>62.0</td></tr> <tr><td>0.160</td><td>74.0</td></tr> <tr><td>0.240</td><td>84.0</td></tr> <tr><td>0.320</td><td>92.0</td></tr> <tr><td>0.400</td><td>100.0</td></tr> <tr><td>0.450</td><td>106.0</td></tr> </tbody> </table>		Manometer [MN/m²]	Settlement [0.01 * mm]	0.000	0.0	0.080	14.0	0.160	36.0	0.240	54.0	0.320	70.0	0.400	86.0	0.450	96.0	0.500	106.0	0.250	94.0	0.120	80.0	0.000	48.0	0.080	62.0	0.160	74.0	0.240	84.0	0.320	92.0	0.400	100.0	0.450	106.0
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<div style="border: 1px solid black; padding: 5px;"> $E_{v2} = 186.6 \geq E_{v2(Norm)} = 120.0 \text{ MN/m}^2 \checkmark$ $E_{v2} / E_{v1} = 1.85 \leq E_{v2} / E_{v1(Norm)} = 2.50 \checkmark$ $E_{v1} = 101.0 \geq 0.6 * E_{v2(Norm)} = 72.0 \text{ MN/m}^2 \checkmark$ Conditions fulfilled </div>		Weather: 19.06.2003 16 °; overcast day before: Rain Test start: 10:30 a.m. Test end: 11:00 a.m.																																					
	1. Loading.	2. Loading.	Plate diameter = 30.0 cm Transmission ratio = 2.000																																				
σ_{0max} [MN/m²]	0.500	0.450	Remarks: Plate base: quartz sand																																				
a_1 [mm/(MN/m²)]	2.713	1.712																																					
a_2 [mm/(MN²/m⁴)]	-0.970	-1.013																																					
E_v [MN/m²]	101.0	186.6																																					
E_{v2} / E_{v1} [-]	1.85																																						