



Compaction Tests

with the Light Weight Deflectometer

International Standard
Corresponding
ASTM
E2835-11



TERRATEST 4000 ^{USB}
the most intelligent Light Weight Deflectometer

LIGHT WEIGHT DEFLECTOMETER



The Cost-Saving Alternative compared to the time and money consuming static plate load test

Testing compaction on construction sites - do it yourself and save real money! Easy handling and the little effort and costs involved in the procedure make compaction testing with the Light Weight Deflectometer **TERRATEST 4000 USB** the optimal test method for earthworks, road construction, pipeline and cable work, gardening and landscaping as well as railway track construction. It is the cost-saving alternative to the time and money consuming static plate load test. Find out in less than two minutes if the required bearing capacity has been reached or if further compaction work is needed. Save real money on your construction project through accurate control of the compaction work!

TERRATEST 4000 **USB** corresponding to international standards



TERRATEST 4000 USB is the most intelligent compact design Light Weight Deflectometer in the world. It comes with extensive technical equipment. The device is fully suitable for daily use on construction sites. A large inspection window and external control buttons enable working with a closed box, protecting the measurement electronics against dust and sand.

TERRATEST 4000 USB conforms to the international standard ASTM E2835-11, published by ASTM International, an international standards organization, headquartered in the US. It is officially approved for compaction testing in Germany and Austria. The German national railway company Deutsche Bahn has also officially accepted compaction tests with Light Weight Deflectometers under standard RIL 836 for track construction.

All-inclusive Set "ROBUSTA"

High-quality manufacture, extensive equipment



Everything you need included

- ✓ Weatherproof box with external control buttons, protecting the test computer on site
- ✓ GPS system with display in satellite picture
- ✓ Integrated printer for immediate printout
- ✓ **NEW:** USB-Drive for datatransfer to PC
- ✓ High-performance rechargeable battery
- ✓ PC-software for evaluation and management of measured data

TERRATEST 4000 ^{USB}

High-quality manufacture, proven its worth more than 1000 times

Mechanical System

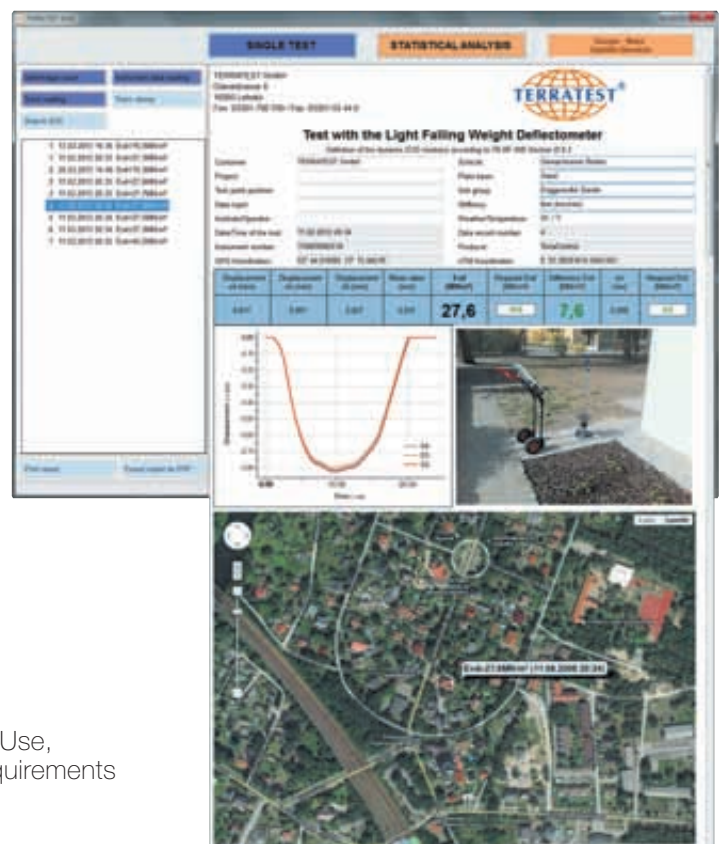
- Loading device with 10kg drop weight
measurement range E_{vd} 15-70 MN/m² (equals E_{v2} up to ca. 140 MN/m²)
- Load plate 300 mm with precision accelerometer
- Angled design load plate handles for mobile testing system "CARRELLO"
- Ergonomic hexangular weight-catching grip for comfortable handling on construction site
- Safety grip with integrated spirit level, tightly screwed to the guide rod
- Electroless nickel coating, especially suitable for construction sites, since largely resistant to alkaline constituents in lime, cement, concrete etc.

Testing Computer

- Protected testing computer in weatherproof box "ROBUSTA" with large impact resistant inspection window and external control buttons. The operation of the device is thus also possible with the cover closed, so that the testing computer remains protected against dust, dirt and rain while working on the construction site.
- Integrated GPS system for immediate calculation of test position
GPS system can be turned off
- Saving on USB-drive for convenient data transfer to the PC
- Text input function
- Illuminated graphic display for illustration of settlement curves, s/v value and E_{vd} -value
- High-performance rechargeable battery with extremely long service life
- conforming to protection class IP53
- Internal memory, PC interface for USB
- Charger 100-240 V input voltages as well as car charger
- USB data transfer cable for reading out the internal memory via the PC
- Switchable to 15 kg loading device

Software „TERRATEST 2.0“

- Software „TERRATEST 2.0“ for Windows 2000, XP, Vista, Windows 7, Windows 8 on CD ROM
- Presentation of testing points with E_{vd} -value, date and time in satellite picture (can be turned off)
- Individual data records with user-designed company logo and color coded settlement curves in A4 format
- Statistical analysis of the test in accordance with German standard TP BF StB Part B 8.3
- Detailed English user guide
- Information cards: Quick Start Guide, Rules for Proper Use, Correlation static/dynamic, Chart E_{v2} - E_{vd} -minimum requirements according to German standard ZTV E





Fully equipped „TERRATEST 4000^{USB}“

Certified quality, MADE IN GERMANY

- ✓ Light Weight Deflectometer „TERRATEST 4000^{USB}“ corresponding to international standard ASTM E2835-11
- ✓ Measurement electronics in weatherproof box with large inspection window and external button (extremely suitable for use on site)
- ✓ GPS system with display of testing points in satellite picture
- ✓ Internal printer for printout on site
- ✓ **NEW:** Test saving on USB-drive for datatransfer to PC
- ✓ High-performance rechargeable battery
- ✓ **NEW:** Software „TERRATEST 2.0“ for evaluation of measured data



Made in Germany

10kg Loading Device
for measuring E_{vd} 15-70 MN/m² (E_{v2} up to 120 MN/m²)



15kg Loading Device
for measuring E_{vd} 70-120 MN/m² ($E_{v2} > 120 \text{ MN/m}^2$)



Mobile testing system "CARRELLO"
the comfortable fork system



Transport Box "MILANO"
for transport of 10 kg device



Transport Box "ROMA"
for transport of 10 kg and 15 kg device



Magnet Plate "TREMINE"
for placing on the ground



USB-Drive
reusable



Measuring Cable
2,5 meter



Extension Cable
2,5 meter



USB Cable
1,0 meter



15 Paper Rolls
for integrated thermal printer



TERRATEST GmbH
Dianastraße 4 · 16565 Lehnitz / Berlin · GERMANY
Phone: +49 33 01 700 700 · Fax: +49 33 01 55 44 0
www.terratest.de · info@terratest.de