



Light Weight Deflectometer TERRATEST 7000 STREAM CABLE

According to ASTM E2835-11 and German Standard TP BF-StB B8.3



DO-IT-YOURSELF compaction test

Never wait for a test laboratory again

Test yourself, save money

Avoid construction damages

No stillstand on your construction site

Check subconstructors

Test natural soil before construction starts

INTERNATIONAL STANDARDS

- **ASTM E2835-11, USA**
- TP BF-StB Part B8.3, 2012, GERMANY
- TP Gestein-StB Part 8.2.1, GERMANY
- UNE 103 807-2, SPAIN
- TB 10102-2010, J338-2004, CHINA
- RIL 836 Deutsche Bahn AG (NGT 39), Railway Construction, GERMANY
- RVS 08.03.04., AUSTRIA
- Test Method Q258A 2021, AUSTRALIA
- VSS 70 313 (July 2019), SWITZERLAND
- **CSN 736192 1996, CZECH REPUBLIC**
- SB 250 versie 4.1, 4.16.2, BELGIUM

ALL INCLUSIVE PACKAGE LIGHT WEIGHT DEFLECTOMETER TERRATEST 7000 STREAM

- Transport box MILANO with rolls
- TRETMINE free standing magnetic foot
- 5 paper rolls for thermal mini printer



Never wait for a TEST LABORATORY AGAIN!

- ✓ SELF EXPLAINING, spoken instructions
- ✓ 1 person only 2 minutes
- ✓ Perfect for Earthworks, Road Construction, Civil Engineering, Industrial Pavement, Broadband Expansion, Track Construction, Pipeline Construction, Test Laboratories





FULLY EQUIPPED Perfect for construction site



Shockproof test computer

Test computer remains closed and protected during test mode, service by external pushbutton.



Integrated Printer

Print out your test data directly in construction site.



Wi-Fi for App Use

Transfer test results to your iPhone or Android device and create and send reports directly from the construction site.



GPS System

Allows legally effective identification of test position.



Rechargable Power-Battery ,EVERfull'

Power Battery with short charging time and long lifetime power for 2.000 tests/600 printouts.



Voice Navigation

Follow spoken instructions, that's all.



Easy-fixx Plug Connection

Extremely construction-site-friendly sockets and plugs for durable contact under tough construction conditions.



Backlit Grafic Display

Clear visualization of results, intuitive menu structure.



One-Touch External Button

One touch operation when cover is closed. No need to open the case in dusty environment.







WEATHERPROOF. INDESTRUCTABLE. ONLY ONE BUTTON.

Weatherproof Electronics Box

Operate the weatherproof, indestructable electronic box on the construction site with the external button. In this way, the measuring computer remains permanently protected against rain, dust and sand.



The measuring computer disposes of protection class IP 43, preventing penetration of dust and water.





DO-IT-YOURSELF compaction test

Never wait for a test laboratory again!

Avoid construction damages

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Test natural soil before construction starts

Check subconstractors









Furnish the compaction proof in an efficient and safe manner.

The measuring principle of the light weight deflectometer

TERRATEST 7000 STREAM represents an easier method: Quick and sure!

Voice-navigation and one-button operation considerably simplify service on construction sites.

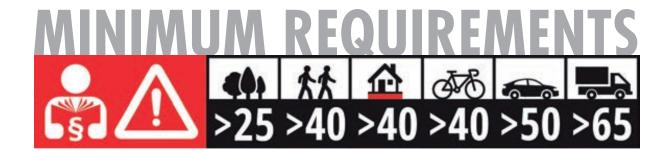


SAVING TIME and MONEY

Investment for TERRATEST® instruments is amortized within a couple of months, as it assists users saving money every day. Expensive external soil expertise is no more needed; the compaction proof is furnished at once.

Voice navigation guides the user by spoken instructions clearly and unequivocally through measuring procedures. A test can be performed also by personnel disposing only of normal formation. The test is quickly documented by means of the professional TERRATEST®.





Recognized PROOF OF SOIL COMPACTING

Benchmarks according to ZTV E-StB 2009 and ZTV A-StB 2012

Quote from the ZTV E-StB 2009:

"..... 4.5.2 Requirements for deflection modulus

The requirements detailed below are based on the 10% minimum quantile. When constructing roads corresponding to Construction Classes SV, or I to IV on frost-free subsoil or substructure, it is necessary to obtain a deflection modulus of at least $\mathbf{E}_{v2} = 120 \, \mathrm{MN/m^2}$ or alternatively $\mathbf{E}_{vd} = 65 \, \mathrm{MN/m^2}$ on the subgrade. For Construction Classes V and VI a deflection modulus of at least $\mathbf{E}_{v2} = 100 \, \mathrm{MN/m^2}$ or alternatively $\mathbf{E}_{vd} = 50 \, \mathrm{MN/m^2}$ must be obtained. The deflection modulus \mathbf{E}_{v2} is to be verified through the static plate load test, as defined in DIN 18134, and the deflection modulus \mathbf{E}_{vd} through the dynamic plate load test, as defined in TP BF-StB Part B 8.3.

Table: Benchmarks for the allocation of the static deflection modulus E_{v2} or the dynamic deflection modulus E_{vd} to degree of compaction D_{pr} on coarse-grained soil types

	Required compaction in	Based on benchmarks for	Proposal for the
	different depths	the allocation to D _{pr}	allocation of E _{vd} to E _{v2}
	(ZTV T-StB 95*) (ZTV E-StB 94)	(ZTV E-StB 09)	(acc. ZTV E-StB 09)
Soil Types	Degree of compaction Dpr in %	Deflection modulus	Deflection modulus
DIN 18 196		E _{v2} in MN/m ²	Evd in MN/m ²
Gravels and sands with ≤ 7% by weight < 0,063 mm (gravels with wideor intermittent grain size distribution, gravel-clay and gravel-peat mixtures)	≥ 103	≥ 120	≥ 65
	≥ 100	≥ 100	≥ 50
	≥ 98	≥ 80	≥ 40
	≥ 97	≥ 70	≥ 35
Gravels and sands with narrow grain size distribution, sands with wide or intermittent grain size distribution	≥ 100	≥ 80	≥ 40
	≥ 98	≥ 70	≥ 35
	≥ 97	≥ 60	≥ 32
Mixed gravels and sands with 7-15% by weight < 0,063 mm (gravel-silt and gravel-clay mixtures, sand-silt and sand-clay mixtures)	Procto ≥ 100	≥ 70 ≥ 45	≥ 35 ≥ 25

1) In accordance with ZTV E-StB 09 §14.2.5 and ZTV E-StB 12 client and contractor may agree upon these reference values as benchmarks for verification of the achieved compaction.

To be on the save side always perform a correlation measurement with the static plate load test in accordance with DIN 18134. The test must be performed and evaluated according to German standard TP BF StB Part B 8.3. For general information only! All details are subject to change.

ONLINE SOFTWARE ,TEOLO' Create test reports yourself

The device price already includes the web-based online software ,TEOLO' for evaluating test results on a PC. With just a few clicks, a professional documentation of the test results is created.

Using the smartphone app, a complete test report can even be created and sent directly from the construction site to anywhere you want. This allows you to provide compaction proofs yourself without the need for a soil expert. All requirements for self-monitoring according to testing regulations are quickly met.

With the web-based ,TEOLO' software, it's child's play. It doesn't get more legally secure than this!



The ,TEOLO' PC software is particularly user-friendly and clearly designed. Create compaction proofs yourself with just a few clicks.



Online SOFTWARE ,TEOLO'

Professional Compaction Proofs

Transfer your test results via USB stick or smartphone to your PC and create professional test reports. Your results are automatically evaluated, documented, and archived.

The GPS system simultaneously records the coordinates of each test position (when GPS is activated). Each test is later automatically displayed on the PC as an individual report, including the measurement value, date, time, and a Google® Maps satellite photo. The GPS location ensures that every measurement is precisely assigned and legally secured.

With ,TEOLO', you can effortlessly meet the requirements for self-monitoring compaction proofs according to ASTM E2835-11 and other national standards.

The ,TEOLO' PC software is particularly user-friendly and clearly structured. Create compaction proofs yourself with just a few clicks.

