



ZORN ZFG 3000

Light Weight Deflectometer (LWD)

according to ASTM E2835 and
TP BF-StB Part B 8.3
calibrated according to
TP BF-StB Part B 8.4



10 kg, 300 mm

DETAILS



- **Load device with 10 kg drop weight**
210 mm, 1.140 mm, 15 kg
(Width, height, total weight)
- **Base plate**
300 mm, 15 kg
(Diameter, weight)
- **Electronics case**
Splash-proof with transparent cover
160 mm, 210 mm, 280 mm, 3,2 kg
(Width, height, depth, weight)

- 1
 - Integrated high-precision GPS/GNSS receiver and printer
 - WIFI for wireless, fast and secure transmission of measurement data from ZFG to Smartphone, Tablet or PC
 - Automatic calculation of deflection, s/v value and deformation modulus E_{vd}

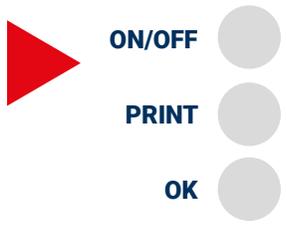
- 2
 - Load device with 10 kg drop weight, impact load 7.07 kN, measuring range E_{vd} 15-70 MPa (MN/m²)
 - Ready for optional load device with 15 kg drop weight and 1.5 times impact load (10.605 kN); measuring range E_{vd} 70-105 MPa (MN/m²)

Light Weight Deflectometer ZFG 3000 is used to determine the dynamic deformation modulus E_{vd} in MPa [MN/m²] by means of the dynamic plate load test. Test results provide conclusions on the bearing capacity and compaction quality of soils.

The main field of application for LWDs is earthworks in transport infrastructure construction. Further applications are soil investigation and landscaping.

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- 300 mm base plate with acceleration sensor (MEMS), max. ground pressure 0.1 MPa (MN/m²)
- Measuring depth/depth of influence: ca. 600 mm
- Sensor housing ready for dynamic CBR and 150 mm base plate accessory
- Ergonomic, triangular catch handle with anti-slip powder coating
- All metal parts with corrosion protection and suitable for use at construction sites
- Automatic calculation of deflection mean, s/v value and modulus (E_{vd})
- Multilingual, backlit and graphics-capable display, display of deflection graphs
- Thermal printer for printing the test protocol incl. GPS coordinates
- Internal memory and SD-card for up to 10.000 measurements, automatic storage
- Sensor self-test (2G) and integrated calibration memory
- Fast charging high-current battery with short charging time including AC/DC adaptor
- Preloading impacts can be switched off
- ZORN FG-WebApp (web-based software)
- Quick starter manual und calibration protocol QR Code (protocol available online)
- Detailed user manual online available



Weather independent!
 Use of the electronics case also possible in closed condition (protection against weather, dust).

Subject to change without prior notice. | Status: 03/2025



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