

LIGHT WEIGHT DEFLECTOMETER

The dynamic plate load test performed with the Lightweight deflectometer is used to determine the soil bearing capacity and compaction quality of soils and non-cohesive subbases, as well as for soil improvement applications. Built-in soil layers can easily be tested without load abutment, facilitating quick assessments of test lots even under limited space conditions. The test method is suited to coarse-grain and mixed grain soils with a maximum grain size of 63mm and can be used to determine the dynamic modulus of deformation of soil in the range $E_{vd} = 15$ to 70 MN/m^2 .

Applications

- Road and railway construction, earth moving
- Quality assurance in canal construction
- Compaction monitoring in pipe trenches and cable ducts
- Testing of pavement bedding
- Testing of foundation backfill
- Quality inspection in boreholes
- Testing of modulus of deformation in line with soil exploration

SPECIFICATION

Loading mechanism

- Total weight: 15 kg
- Drop weight: 10 kg
- Maximum impact force: 7.07 kN
- Duration of impact: 17 ms
- Material: zinc coated/hard-chrome plated steel

Load plate

- Diameter: 300 x 20 mm
- Total weight: 15 kg
- Material: zinc coated steel

Electronic settlement measuring instrument

- Interfaces: USB, Thermal-Printer, GPS, PC software included
- Power supply: 4 x R6 batteries
- Dimensions: 210 x 100 x 45 mm
- Settlement measuring range: 0.1 to 2.0 mm $\pm$ 0.02 mm
- Measuring range: $E_{vd} < 225 \text{ MN/m}^2$
- Temperature range: 0 to 40°C
- Storage capacity of measured data: 500 series

FEATURES

- Fast and cost-saving: maximum 2 minutes per measuring point
- No vehicle required
- Immediate on-site evaluation of test results
- It can be easily operated and carried by one person only
- Testing can be achieved in difficult to reach locations

ACCESSORIES

35-T0120/A1

Transport cart for easier on-site transport of the Lightweight deflectometer 35-T0120/A between the measuring points

35-T0120/A2

Proper positioning base plate for of loading unit 35-T0120/A

35-T0120/A5

Carrying case for secure transport of the Lightweight deflectometer 35-T0120/A

ORDERING CODE

35-T0120/A

Lightweight deflectometer used to determine the bearing capacity and compaction quality of soils and non-cohesive subbases.



LIGHT WEIGHT DEFLECTOMETER



