

Bearing Capacity - Plate load testing

Plate bearing test apparatus, 50/100 kN capacity

PLATE BEARING TEST APPARATUS, 50/100 KN CAPACITY

STANDARD

ASTM D1194, D1195, D1196 - BS 1377:9 -
CNR No. 92 and No. 146 - DIN 18134

These test methods are used to estimate the bearing capacity of a soil under field loading conditions for a specific loading plate and depth of embedment (ASTM D1194) but also for load tests of soil and flexible pavement components for use in evaluation and design of airport and highway pavements (ASTM D1195, D1196 - BS 1377 - CNR No. 92 and No. 146 - DIN 18134). We propose a complete range of plate load testing equipment conforming to the different standards.



35-T0116/A: detail of dial gauge housing

35-T0116/A

Plate bearing test apparatus 50/100 kN capacity, 300 mm dia. plate, 1 dial gauge

STANDARD

CNR No. 146 method "a"

General description and specifications

Consisting of:

- Load plate 300 mm dia.
- Intermediate plate 160 mm dia. with spherical seat
- Hydraulic jack 100 kN cap.
- Hand pump
- Pressure gauge 200 mm dia., range 0-50 kN, div. 0.25 kN (or 0-100 kN, div. 0.5 kN as alternative - See accessories)
- Housing for centre dial gauge anvil
- No. 1 dial gauge 30x0.01 mm
- Datum bar assembly 2.5 m long complete with dial gauge support (packed separately)
- Carrying case.

The apparatus can be easily converted conforming to method "b" - three dial gauges-removing the housing for centre dial gauge anvil and requiring other two dial gauges 30x0.01 mm with two dial gauge supports. See accessory 35-T0116/49. Supplied complete with wooden carrying cases.

Total weight: 70 kg approx.

Accessories

- ✔ **35-T0116/11** Pressure gauge for 100 kN jack, range 0-100 kN, div. 0.5 kN
- ✔ **35-T0116/49** Dial gauge 30x0.01 mm complete with support assembly



35-T0116/B, model with three dial gauges

■ **35-T0116/B**

Plate bearing test apparatus 50/100 kN capacity, 300 mm dia. plate, 3 dial gauges

■ **35-T0116/BE**

100 kN digital apparatus for plate bearing tests on 300 mm dia. plate. Three linear displacement transducers 50 mm travel, pressure transducer fitted to pump and data logger for data acquisition and display. 230 V, 50 Hz, 1 ph. or 12 V

📄 **STANDARD**

CNR No. 146 method "b" - BS 1377:9

The 35-T0116/B version is identical to the 35-T0116/A model but complete with 3 dial gauges less the housing for centre dial gauge housing.

The 35-T0116/BE digital version is fitted with three displacement transducers 50 mm travel instead of the dial gauges, pressure transducer connected to the pump and the 82-P0908/A Datalog, 8 channels for data acquisition and processing of load and penetration data. The 82-P0908/A Datalog can also be powered by the 12 V car lighter. Supplied complete with wooden carrying cases.



Detail of the linear displacement transducers 50 mm travel with support and adjustable reference anvil

🏋️ **Total weight:** 70 kg approx.



35-T0116/BE digital version with datalogger, power by 12 V via Auto cigar lighter