

DATA SHEET

Benkelman Beam Apparatus



35-T1100/BF with 35-T1100/FC

General description

The apparatus is used to measure the deflection of flexible pavements under the axion of moving wheel loads.

In operation the beam is placed between the tyres of the test vehicle and in contact with the pavement. The deflection is measured as the vehicle passes over the test area.

The probe is 2440 mm long and the back extension is 1220 mm.

Manufactured in aluminium and chrome finished metals.

- Weight approx.: 15 kg

Standards

- AASHTO T256



80-80180/3 Calibration device

DATA SHEET

Requires:

- 100 kN capacity
- Electronic version with single displacement transducer
- Bearing plates: dia. 160 and 300 mm
- Reference beam 5.5 meter
- Carrying cases included for all parts

Hydraulic assembly with pressure read out unit - ELECTRONIC VERSION			QTY
35-	T1100/HT1	100 kN Hydraulic assembly with cylinder, pump, extension rods, spherical seats	1
	P9008/F	DATALOG 8, 8 channel datalogger battery operated	1
82-	P9008/ELT1	Single connection cable	2
	P0700	Pressure transducer	1
	P0349/ELT	Connection cable for pressure transducer	1
Device for displacement measurement			
35-	T1100/ARM	Adjustable support for displacement device	1
82-	P0324	Displacement transducer 50 mm stroke	1
Loading plates			
35-	T1100/P6	160 mm (6") dia. x 25 mm (1")	1
	T1100/P12	300 mm (12") dia. x 25 mm (1")	1
Reference bar			
35-	T1100/B35	Datum bar 2.5 m long	1
Accessories			
	T1100/MT	Measuring tunnel, suitable for single displacement gauge and hydraulic set 100 and 200 kN	1
35-	T1100/BC	Wooden carrying case for reference bar (2.5 m and 5.5 m versions)	1
	T1100/HC	Carrying case, trolley type, for bearing plate hydraulic assembly 100 kN and 200 kN	1

How to design a custom configuration - Example 1

80-B0180_B-rev1-(80) w1

Products

35-T1100/BF

Benkelman beam apparatus - Conforming to AASHTO T256, NF P98-200-2 and CNRNo. 141. Manufactured from aluminium and chrome finished metals. 2440 mm max length, 1220 mm back extension. Complete with adjustable feet and bubble level

Accessories and consumables

35-T1100/FC

Wooden carrying case per Benkelmann beam

80-B0180/1

Spare gauge with bracket

80-B0180/2

Adjustable feet for Benkelman beam complete with two spirit level.

80-B0180/3

Calibration device for Benkelman beam