

# 29 Soil Testing - Bearing Capacity

## Plate Bearing Test Equipment

BS1377; EN 1997-3; ASTM D1194, D1195, D1196

Applications include the determination of bearing capacity of the soil in situ, designing for static loads on spread footings, and repetitive and non-repetitive plate loading tests of soils and flexible pavements.

**Important:** The equipment is used in conjunction with a reaction beam. This is not supplied with the equipment.

### Ordering Information

**EL29-3800 Plate Bearing Apparatus complete,** comprising; Hydraulic Jack 500 kN capacity, Pressure system, datum bar, four x dial gauges 50 mm travel x 0.01 mm divisions and four bearing plates: 150 mm, 305 mm, 455 mm and 760 mm dia.

Specification Pressure System	
Loading jack	500 kN capacity with integral ball seating
Pump	Hand operated, single speed with integral oil reservoir
Hose	3 m long. Maximum pressure 70 MPa with quick release couplings
Gauge	100 mm dia with quick release couplings and graphs to convert readings to kN, kgf and lbf
Weights	Loading jack 24 kg Pressure system 12.5 kg

## Bearing Plates

Manufactured from machined steel plate with a finished thickness exceeding 25 mm. The plate has concentric markings on one face. All plates are supplied with two lifting eyes except for the 150 mm dia plate.

**Note:** to successfully perform the test, a reaction load is required.

