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Plate Bearing Test ZI 3085

Standards: IS 1888 1962, ASTM D 1194, BS 13779

Specification:



This is for estimating the bearing capacity of shallow foundations in situ and for the design of flexible pavement. In the test procedure a steel plate is subjected to gradually increasing load and settlements of the plates recorded

50 tonne hydraulic jack with separate pumping unit fixed to it a 0 - 500KN x 0.5KN. : 1No.

Pressure gauge and flexible metal pipe 5 mtr. long : 1No.

Special ball and socket arrangement between the jack and the bearing plate : 1 No.

Extension rod 12mm dia x 25 cm long for taking dial gauge readings : 16 Nos.

Magnetic base with female thread on top for holding extension rod : 4 Nos.

Top end plate, 50mm, dia with male thread for fitting onto the extension rods and positioning the dial gauge plunger : 4 Nos.

Column 15cm dia x 25cm long with flanges complete with four bolts and nuts : 2 Nos.

Column 15cm dia x 50cm long with flanges complete with four bolts and nuts : 1 No.

Bridge support of welded steel angle construction, 5 mtr. Span and stands approximately 30 cm. High. Fitted with two quick release clamps a for positioning and holding the dial bracket : 2 Nos.

Plane M.S. plate 60cms x 60cm .

Square x 60 cms. Square x 25mm thick.

Plane M.S. plate 45cm x 45cm x square x 25mm thick.

Plane M.S. plate 30 cms x 30 cms x 25mm thick. Dial Gauge 0.01mm x 25mm - 4 Nos.

Accessories:

Plane M.S. 75mm x 25mm thick

Plane M.S. 50cm x 25mm thick

Grooved M.S. plate 60cms x 60cms x 25mm thick

Grooved M.S. plate 45cms x 45cms x 25mm thick

Grooved M.S. plate 30cms x 30cms x 25mm thick

Grooved M.S. plate 75cms x 75cms x 25mm thick

Note :

1. When plates of size more than 30cm sq, are used, in order to prevent deflection of the edge, a series of smaller plates are advised to be placed concentrically on the bottom plate.
2. Flexible rubber pipe 1 mtr. length can be supplied for the hydraulic jack in place of metal pipe at extra cost. For site testing load trusses to meet the reaction of loading are available in different capacities as under. 81