

Product Name :
Direct Shear Apparatus (Manually)

Product Code :
NLAB-TESTINGLABM109045



Description :

Direct Shear Apparatus (Manually)

Technical Specification :

Information of Shear values plays an important role the design of sub-structures in determining bearing capacity of soils, design of retaining walls, instability calculation earth slopes etc. Various Shear Apparatus are available and Direct Shear Apparatus is one of them. In Direct Shear test specimen contained in a box is subjected to a constant normal load and increasing horizontal load is applied to the upper section of the specimen. Shear force and load are directly measured.

AS PER IS: 2720 (Part-VIII), ASTM D-3080

For determination of the direct shear strength of soils on specimen size 60 mm x 60 mm x 25 mm.

Specification: The apparatus comprises of the following:

Loading Unit:

Supplied with load yoke with direct and lever system for applying load. Normal stress capacity 8kg/sq.cm. Load is applied either directly or through a counter balanced detachable lever. Provision is made for load to be applied either through a steel ball recessed in the loading pad or direct through a boss on the pre calibrated loading yoke. The loading unit is provided with V strips and roller strips for frictionless movement of shear box housing.

Shear Box Assembly:

Comprising Direct Shear box in two halves for a square specimen size 60 x 60 x 25 mm one pair of plain gripper plates, one pair of perforated gripper plates, one pair of porous stones, one top loading pad. Shear box housing: Accommodates the Direct Shear Box assembly. Complete with two ball roller strips.

Specimen Cutter:

For cutting 60 x 60 x 25 mm specimen from larger samples. Set of weights to give a normal stress of 3 kg/sq.cm.

through lever as follows:

To give kg/cm sq. - Qty.

0.05 - 4 Nos.

0.1 - 1No.

0.2 - 1No.

0.5 - 3Nos.

1.0 - 1No.

Complete set as above but without proving ring.

Nett weight 140Kg.

Essential Accessories:

High sensitivity compression ring cap 200 kg one consolidation dial gauge 0.01 mm x 25 mm and one strain

dial gauge 0.01 mm x 25 mm and one strain dial gauge 0.01 mm x 25 mm.

Optional extras:

Additional set of weights to give a normal stress of 5 kg/cm² Soil Sampler for 60 mm x 60mm specimen and test from

pad of 50. Spares:

Porous stone for 60 mm x 60 mm size sample available in pairs.

Naugralabequipments

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