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Product Name :
Direct Shear Test Apparatus

Product Code :
SCHOOL-SOL730002



Description :

Direct Shear Test Apparatus

Technical Specification :

Supplied with load yoke with direct and lever system for applying load. Normal stress capacity 8 kg/sq. cm. Load is applied either directly or through a counter balanced detachable lever. Provision is made for the 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 25mm one pair of plain gripper plates, One pair of perforated gripper plates, one pair of porous stones, one top of 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 form larger samples. Set of weights to give a normal stress of 3kg/sa.cm. Through larger as following : To give kg/cm. sq. Qty. 0.05 4 nos. 0.1 1 no. 0.2 1 no. 0.5 3 nos. 1.0 1 no. Complete set as above but without proving ring. Net weight: 140 kg. Essential Accessories: High sensitivity compression proving ring. Capacity: 200kg. One consolidation dial gauge 0.01mm x 25mm and one strain dial gauge 0.01mm x 25mm Optional Extras: Additional set of weights to give a normal stress of 5 kg/cm². Soil sampler for 60mm x 60mm specimen and test forms pad of 50. Spares: Porous stone for 60mm x 60mm size sample available in pairs. Unit is electrically operated to give the following 12 rates or strains. 1.25, 0.625, 0.25, 0.125, 0.05, 0.025, 0.01, 0.005, 0.002, 0.001, 0.004 and 0.0002 mm/min. The apparatus is suitable for operation on 230 Volts Single Phase A.C. Supply. Constant Head Permeability Apparatus The soil permeability is a very important factor to study the behavior of soil in its natural condition with respect to water flow. The apparatus is used for the laboratory determination of permeability of soil using a constant or a variable head. The constant head method is particularly suitable for relatively coarse grained

soil such as sands and gravel. This test is recommended for soils with co-efficient permeability in the range of 10^{-3} to 10^{-7} cm/sec. The maximum particle size of the soil which can be tested in the mould is 10mm. For fine grained soils such as clay-like or silty soils see Falling head permeability apparatus. The apparatus consists of a Perspex permeability cell mounted on a detachable aluminium base and head. The cylinder has pressure points at different levels, which have to be connected to the manometer stand and to the constant level tank.

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