

CONSTANT HEAD PERMEAMETERS

STANDARDS: BS 1377:5 | ASTM D2434 | AASHTO T215

Used to determine the permeability of granular, gravel and sand soils. The specimen is formed in an acrylic permeability cell, and water is passed through it from a constant level tank.

The permeability cell has pressure points at different levels which are connected to the manometer tubes fixed on a stand with graduated scale. Two constant head permeability cells are available: 75 mm and 114 mm diameter.



S245-01

CONSTANT HEAD PERMEABILITY CELL Ø 75 MM

with three pressure take-off points.

Formed by an acrylic plexiglass body held between two aluminium anodized end plates.

Weight: 3 kg approx.

S245-02

CONSTANT HEAD PERMEABILITY CELL Ø 114 MM

with six pressure take-off points and an additional six blanked-off pressure points. Formed by an acrylic plexiglass body held between two aluminium anodized end plates. When using this cell, two manometer tube stands mod. S245-03 are required.

Weight: 7 kg approx.

S245-03

MANOMETER TUBES AND STAND, comprising three tubes of constant bore, graduated scale, tubing and connectors.

Dimensions: 210x50x1160 mm

Weight: 5 kg approx.

S245-04

CONSTANT LEVEL TANK, made from acrylic plexiglass, wall mounting. The inlet, outlet and overflow pipes can be adjusted for height within the tank.

Weight: 3 kg approx.

FALLING HEAD PERMEAMETER

STANDARD: CEN ISO/TS 17892-11

Used to determine the permeability of fine-grained soils such as clay-like or silty soils. The specimen is confined within the permeameter which is connected to the manometer tube filled with water. The sample must be completely saturated with water before the test, and the operator will check the rate of fall of the water in the tube passing through the test specimen.

The set consists of:

S246-01

Permeameter stand with three manometer tubes each Ø 3, 4 and 6 mm for the different degrees of permeability, soaking reservoir with cock, tubing and connectors.

Dimensions: 1700x220x50 mm

Weight: 10 kg approx.

S252

COMPACTION PERMEAMETER

Ø 4" complete

(technical details: see next page)

ALTERNATIVE:

S253

COMPACTION PERMEAMETER

Ø 6" complete.



ACCESSORIES for Compaction Permeameters Ø 4"

S252-01 PLEIN BASE and COLLAR Ø 4" for compaction tests.

S252-02 MOULD BODY Ø 4" with two lateral water inlet/outlet.

ACCESSORIES for Compaction Permeameters Ø 6"

S253-01 PLEIN BASE and COLLAR Ø 6" for compaction tests.

S253-02 MOULD BODY Ø 6" with two lateral water inlet/outlet.

ACCESSORIES

S355 DE-AIRING TANK 20 litre capacity made from acrylic plexiglass (see p. 550)

S355-01 WATER TRAP to collect the water condensation.

V203 PORTABLE VACUUM PUMP, 230V 1ph 50Hz

V230-03 RUBBER TUBING for vacuum, 3 m long.

S325 NYLON TUBING, 20 m

S248 PERMEAMETER STAND 4 CELL CAPACITY FOR CONSTANT AND FALLING HEAD TESTS

This 4 cells capacity stand is designed to perform both constant head and falling head permeability tests on compacted granular soil samples.

The stand consists of a metal frame with water tank adjustable in height between 1350 and 3450 mm for constant head tests. Supplied complete with tubes, graduated rules, piping, connectors and cocks; but without permeameters to be ordered separately.

The stand can hold up to 4 permeameters having Ø 4" or 6" to perform different types of tests at the same time.

Dimensions: 1050x900x2000/3850 mm

Weight: 75 kg approx.

COMPACTION PERMEAMETERS

STANDARD: CEN ISO/TS 17892-11

Used for determining permeability to water of soil gravel, clay, sand samples. Supplied complete with clamped upper and lower plate giving the possibility to perform permeability tests also on compacted samples, water inlet with valve, water outlet, two perforated upper and lower plates, two stainless steel screens. Steel made, galvanized against corrosion.



S253

S253 disassembled

MODELS

S252 COMPACTION PERMEAMETER Ø 4" complete.

Weight: 8 kg approx.

S253 COMPACTION PERMEAMETER Ø 6" complete.

Weight: 16 kg approx.

ACCESSORIES for S252

S252-01 PLEIN BASE and COLLAR for compaction test before the permeability test

S252-02 MOULD BODY with two lateral water inlet/outlet for test with piezometric measurement

ACCESSORIES for S253

S253-01 PLEIN BASE and COLLAR for compaction test before the permeability test

S253-02 MOULD BODY with two lateral water inlet/outlet for test with piezometric measurement



S248 + Permeameters



S253-02

S252-02

S252-01

S253-01

ACCESSORIES

CUTTING COLLAR, coupled to the Permeameter body, it gets easier the soil sampling.

MODELS

S185-01 Ø 4" cutting collar

S200-09 Ø 6" cutting collar



S200-09