

CONCRETE PERMEABILITY TEST

BE 64

The High Pressure Permeability Test setup you described is used to evaluate the permeability of concrete specimens under controlled pressure conditions. Here's a concise summary of the setup and process based on your description. It consists of three sets mounted on a single control panel for testing independently three specimens of 150 mm dia x 150 mm high.

Specimen and Cell Design: The test uses concrete specimens of varying sizes, sealed within steel cells to prevent side-wall leakage. Each cell is equipped with a top plate and a bottom funnel, secured with gasket seals, bolts, and nuts. Permeated water is collected in glass bottles attached to the bottom of the funnel.

Test Stall Configuration: Each test stall operates independently with its own control system, including pressure gauges (chamber pressure: 0-20 kg/cm², test pressure: 0-15 kg/cm²) and valves. This allows simultaneous testing of multiple specimens under the same or different head pressures, as each stall has its own pressure regulator.

Multi-Unit Design: Multi-unit permeameters are mounted on a sturdy welded structural stand, with end pressure gauges for monitoring. The system is designed to conduct multiple tests concurrently, ensuring efficiency and flexibility in pressure application.

Pressure Application: Pressure is supplied via an on-site pressure line or a compressor, enabling precise control over test conditions.

FOLLOWING STANDARD

IS 3085-1965, DIN 1048.

DISCRIPTION

BE 64-01	3 MOULD
BE 64-02	6 MOULD
BE 64-03	9 MOULD
BE 64-04	12 MOULD
BE 64-05	18 MOULD

BALAJI ENGINEERING

