Concrete Water Permeability Test Set

LT-C0170 / LT-C0171 | Water penetration depth in hardened concrete

3- and 6-specimen models • Independent test cells • EN 12390-8



3 / 6

SIMULTANEOUS SPECIMEN CAPACITY

8 bar

MAXIMUM PRESSURE

Cube and cylinder specimens • Integrated water tank • Air compressor ordered separately

Photographs and Components

Six-specimen model • Sealed cells, pressure control and burettes

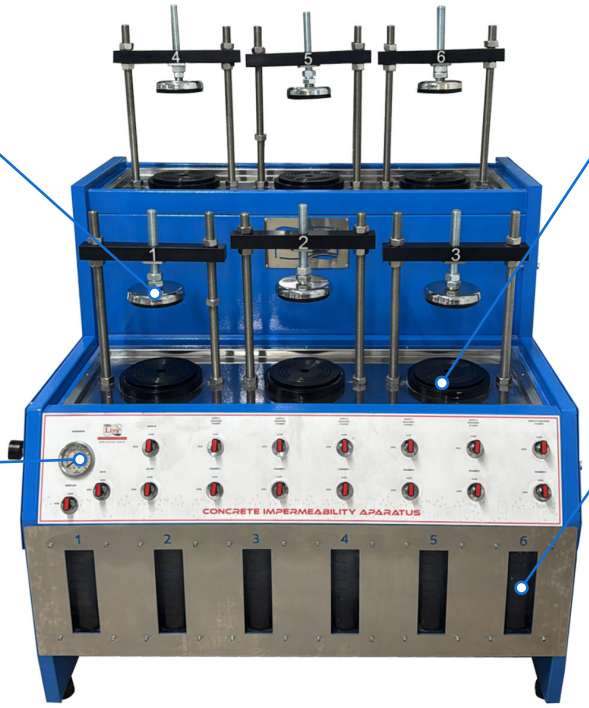
The Concrete Water Permeability Test Set applies controlled water pressure to a hardened concrete surface. Independent cells and specimen clamps support sealed seating. After the test, the specimen is split to measure maximum water penetration depth.

SPECIMEN CLAMP

The adjustable upper clamping head helps seat the specimen on its test cell.

SEALED TEST CELL

Each cell has an individual gasket to limit water leakage around the specimen edges.

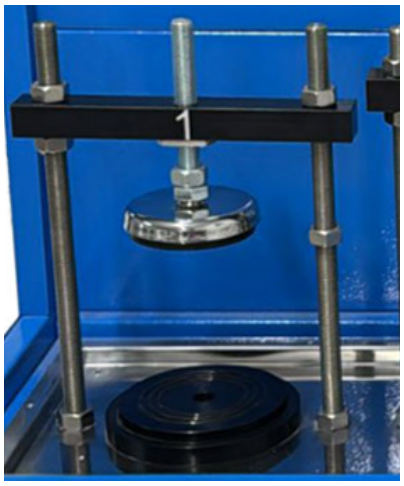


PRESSURE CONTROL

The gauge displays pressure; a regulator adjusts the applied test pressure.

BURETTE MEASUREMENT

Separate measuring sections allow water movement to be followed for each test position.



Specimen clamping head and sealed test cell

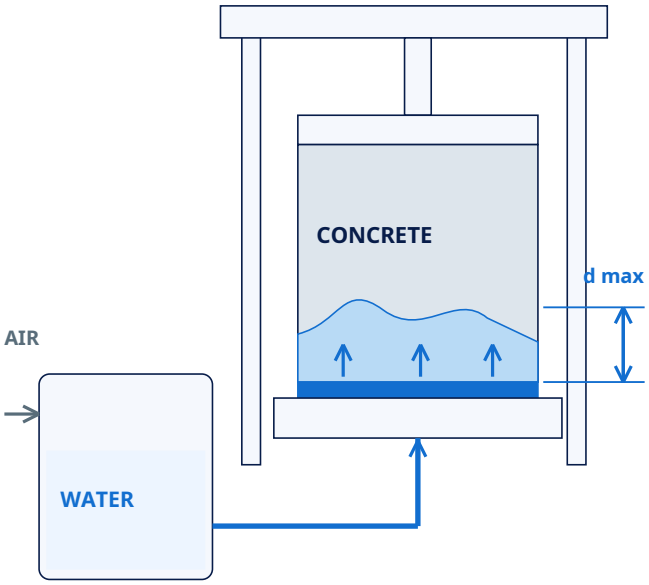


Pressure gauge, control valves and burette sections

Operating Principle and Penetration

Compressed air • Integrated water tank • Sealed cell • Concrete specimen

WATER PRESSURE APPLIED TO ONE TEST CELL



SCHEMATIC • NOT TO SCALE

Position the Specimen

Check the clean surface and gasket. Seat the specimen on its cell and adjust the clamp.

Apply Pressure

Air drives water from the tank to the specimen. Monitor pressure using the regulator and gauge.

Measure the Depth

Split the specimen after testing. Measure the maximum penetration depth on the fractured face.

Compressed air pressurizes the water tank; water reaches the specimen surface through a sealed cell. The blue zone represents water entering the concrete. Maximum depth is measured on the split face after the pressure application period.

Result: Maximum Depth

EN 12390-8 concerns the depth of penetration of water under pressure in hardened concrete. Split the specimen perpendicular to the water-exposed surface after testing.

Measure the maximum depth of the visible wet zone in millimetres. Burette monitoring does not replace this final depth measurement.

Pressure and Sealing

Maximum applied pressure is 8 bar, with approximately 0.2 bar pressure adjustment sensitivity. Select test pressure and duration for the applicable method.

Inspect each cell gasket and specimen surface before testing. Order the air compressor separately.

Specifications and Model Selection

Three- and six-specimen sets • LT-G0225 air compressor option

Product Code	Product / Capacity	Size (cm)	kg	Supply
LT-C0170	Test set / 3 specimens	50 × 60 × 180	240	-
LT-C0171	Test set / 6 specimens	50 × 60 × 180	280	-
LT-G0225	Compressor / 8 bar, 25 L	-	-	220 V

Technical Feature	Value / Configuration
Maximum Pressure	8 bar
Pressure Adjustment Sensitivity	Approximately 0.2 bar
Cube Specimens	150 × 150 × 150 mm; 200 × 200 × 200 mm
Cylinder Specimens	Ø100 × 200 mm; Ø150 × 300 mm
Water Supply System	Integrated water tank driven by compressed air
Test Cells	Independent cells with individual sealing gaskets
Monitoring and Measurement	Regulator, pressure gauge and burette sections
Test Method	EN 12390-8; maximum penetration depth

Air Compressor and Test Result

Order the LT-G0225 air compressor separately; the 220 V supply applies to the compressor. The test result is the maximum water penetration depth measured after splitting the specimen.

Test Preparation and Use Workflow

01
Prepare the Specimen
Clean the surface and inspect gaskets.

02
Seat in the Cell
Position the specimen and adjust the clamp.

03
Apply Pressure
Monitor pressure and duration for the method.

04
Split and Measure
Measure maximum depth of the wet zone.

Product Page | liyatest.com.tr/en/urun/concrete-water-permeability-test-set/