

DATA SHEET

Consolidation cells



Consolidation cell, suitable for incremental loading test, swelling and permeability tests

General description

Consolidation cells are used together with front loading oedometer apparatus or Automatic Computerized oedometer (ACE EmS) for determining the rate and the magnitude of consolidation.

It can be used also for swelling tests and permeability test

The cell is constructed of anodized aluminium and comes complete with all parts shown in the picture.

Consolidation cells are available with the following nominal dimensions: 50.47mm, 63.50mm, 71.40mm, 75mm, 112.80mm

Standards

- BS 1377:5
- ASTM D2435
- ASTM D3877
- ASTM D4546
- EN 17892-5

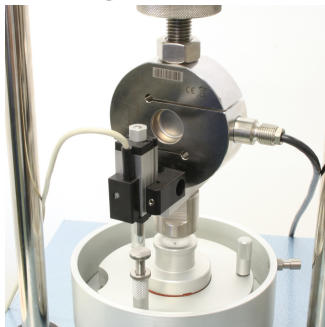
Specifications

| Code | Specimen Dimensions (dxh) mm | Specimen area cm ² | Cell dim. (dxh) mm | Weight kg | Calibration disc, code | Upper porous disc | Lower porous disc |
|-----------|------------------------------|-------------------------------|--------------------|-----------|------------------------|-------------------|-------------------|
| 26-WF0320 | 50.47 x 20 | 20.00 | 139 x 74 | 1.3 | 26-WF0320/9 | 26-WF0320/4 | 26-WF0325/10 |
| 26-WF0321 | 63.50 x 20 | 31.67 | 139 x 74 | 1.3 | 26-WF0321/9 | 26-WF0321/4 | 26-WF0326/10 |
| 26-WF0325 | 71.40 x 20 | 40.00 | 139 x 74 | 1.3 | 26-WF0325/9 | 26-WF0325/4 | 26-WF0325/10 |
| 26-WF0326 | 75.00 x 20 | 44.16 | 139 x 74 | 1.3 | 26-WF0326/9 | 26-WF0326/4 | 26-WF0326/10 |
| 26-WF0335 | 112.80 x 25 | 100.00 | 200 x 74 | 3.0 | 26-WF0335/9 | 26-WF0335/4 | 26-WF0335/10 |



Consolidation cell exploded view

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Detail for load cell, displacement transducer and consolidation cell

Products

26-WF0320

Fixed ring cell for 50.47mm diameter sample with upper and lower stones, cutter ring and cylinder wall. The cell is supplied with additional outlet suitable for permeability test.

26-WF0321

Fixed ring cell for 63.50mm diameter samples with upper and lower stones, cutter ring and cylinder wall. The cell is supplied with additional outlet suitable for permeability test.

26-WF0325

Fixed ring cell for 71.40mm diameter samples with upper and lower stones, cutter ring and cylinder wall. The cell is supplied with additional outlet suitable for permeability test.

26-WF0326

Fixed ring cell for 75mm diameter samples with upper and lower stones, cutter ring and cylinder wall. The cell is supplied with additional outlet suitable for permeability test.

26-WF0335

Fixed ring cell for 112.80mm diameter samples with upper and lower stones, cutter ring and cylinder wall. The cell is supplied with additional outlet suitable for permeability test.

Accessories and consumables

26-WF0320/3

Cutting ring for 50.47mm diameter samples

26-WF0321/3

Cutter ring for 63.50mm diameter samples

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26-WF0325/3

Cutter ring for 71.40mm diameter samples

26-WF0326/3

Cutter ring for 75mm diameter samples

26-WF0335/3

Cutter ring for 112.80mm diameter samples

26-WF0320/9

Calibration disc for 50.47mm diameter samples

26-WF0321/9

Calibration disc for 63.50mm diameter samples

26-WF0325/9

Calibration disc for 71.40mm diameter samples

26-WF0326/9

Calibration disc for 75mm diameter samples

26-WF0335/9

Calibration disc for 112.80mm diameter samples

26-WF0320/4

Upper porous stone for 50.47mm diameter standard and permeability cells

26-WF0325/10

Lower porous stone for 50.47 and 71.40mm diameter

26-WF0321/4

Upper porous stone for 63.50mm diameter standard and permeability cells

26-WF0326/10

Lower porous stone for 63.50 and 75mm diameter

26-WF0325/4

Upper porous stone for 71.40mm diameter standard and permeability cells

26-WF0326/4

Upper porous stone for 75mm diameter standard and permeability cells

26-WF0335/10

Lower porous stone for 112.80mm diameter standard and permeability cells

26-WF0335/4

Upper porous stone for 112.80mm diameter standard and permeability cells