



Geotechnical: Consolidation

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Ykeham Farrance
PRONEES IN ADVANCED SOIL TESTING

Consolidation Systems





26-WF0338/A
Permeability attachment fitted
to the 26WF0302 with 26WF0320 cell

Three oedometers 26-WF0302, complete with cells, 30-WF6210 displacement electronic transducers connected to 30-WF6016 GEODATALOG, and 26-WF0312 consolidation bench.

Front Loading Oedometer

INTRODUCTION

This test determines the rate and magnitude of consolidation of a soil specimen restrained laterally and subjected to a number of successive increments of vertical loads.

The oedometer consists of a rigid aluminium alloy frame to avoid any distortion under load. The lever arm assembly is supported in precision self- aligning bearings and has three hanger positions for 9:1, 10:1 and 11:1 ratio. The oedometers fit with linear potentiometric transducers, can be connected to the 30-WF6016 Data acquisition unit See accessories and Data acquisition and processing system.

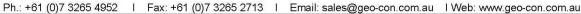
The consolidation test can also be automatically performed with the <u>ACE - Automatic Computerized Oedometer</u>. Consolidation cells, dial gauge/displacement transducer, weight sets and bench are not included and have to be ordered separately. See accessories.

MAIN FEATURES

- Compact and robust design
- 3 lever arm ratio
- Screw jack support
- Same cell for standard and permeability test
- Possible connection with Data acquisition and processing system



53 Granite Street, GEEBUNG, QLD, 4034, Australia I P.O. Box 124, VIRGINIA, QLD 4014, Australia











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Consolidation Systems Front Loading Oedometer contd;

TECHNICAL SPECIFICATION

- Max loading (using 11:1 beam ratio): 1848 kg, corresponding to 9.061 MPa (92.40 kgf/cm²) on 20 cm² specimen (50.47 mm dia.)
- Overall dimensions: 500x200x750 mm (height less hanger xwidthx length)
- Weight approx.: 21 kg

ACCESSORIES

Consolidation cells

To perform either standard or permeability test

Model 26-	Specimen	Specimen area	Cell dimension	Weight [kg]	Calibration disk
	Dia. x height [mm]	[cm ²]	Dia. x height [mm]		
WF0320	50.47x20	20	139x74	1.3	26-WF0320/9
WF0321	63.50x20	31.67	139x74	1.3	26-WF0321/9
WF0325	71.40x20	40	139x74	1.3	26-WF0325/9
WF0326	75x20	44.16	139x74	1.3	26-WF0326/9
WF0335	112.80x25	100	200x74	3	26-WF0335/9

Weight sets

26-WF0230/C2 Weight set, 64 kg in total, including: 2x0.250, 1x0.500, 1x1, 1x2, 1x4, 7x8 kg weights. Weight set, 80 kg in total, including: 2x0.250, 3x0.500, 1x1, 1x2, 3x5, 6x10 kg weights.

Axial displacement dial indicators/linear transducers

30-WF6401 Dial gauge, 10 mm travel x 0.002 mm divisions, anticlockwise rotation.

30-WF6207 Linear potentiometric transducer, 10 mm travel

30-WF6042 Transducer extension cable, 6 m long Transducer extension cable, 12 m long

Permeability attachment

26-WF0338/A Permeability attachment with 50 ml graduated burette. Complete with clamps, stand and

rubber hose for connection to the cell. Weight 4 kg.

Consolidation bench

26-WF0312 Bench for up to three oedometers.

Data acquisition and processing

Data acquisition and processing system



