Constant Rate of Strain Cell (CRS)

Utilisé pour mesurer l'ampleur et la vitesse de consolidation d'un sol cohésif saturé.

Features

Continuous monitoring of test parameters (axial load, pore pressure, axial compression) and detailed plotting of the consolidation curve
Max working pressure 3500 kPa
Relatively short time to perform consolidation test
Particularly suitable for cohesive saturated soils
Using with standard system with manual control or using dedicated activation code with automatic control and data acquisition.

Specifications

	26-WF0360/A	26-WF0360/AS	26-WF0360/AD
Stand Alone	yes	yes	Adaptor for 28-WF4070
Specimen size diameter x height [mm]	63.5 x 25.4		
Maximum working pressure [kPa]	3500		
Number of valves	3		
Air vent	yes		

Highlights

This cell is used to measure the magnitude and rate of consolidation of saturated cohesive soils using

continuous controlled strain axial compression. The specimen is restrained laterally and drained axially to one surface.

The axial force and base excess pressure are measured during the deformation process.

Controlled strain compression is typically referred to constant rate of strain (CRS) testing.
The test is performed using Constant Rate od Strain cell and other equipment including

The test is performed using Constant Rate od Strain cell and other equipment including
Triaxial frame, Pressure system, Data acquisition and processing system and other accessories.
It can be use in a standard system with manual control (automatic or manual acqusition) or in a automatic control and data acqusition using a dedicated activation code.

Three different different model are available:

- Constant rate of Strain (CRS) suitable for external load cell
- Constant rate of Strain (CRS) suitable for submersible load cell
- Adapter for triaxial cell model 28-WF4070

Models

- 26-WF0360/AD/ Adapter for performing CRS - Constant Rate of Strain test with triaxial cell model 28-WF4070. Specimen size: 63.5 x 25.4 mm (diameter x height)
- 26-WF0360/AS/ CRS - Constant Rate of Strain cell model suitable for submersible load cell. Specimen size: 63.5 x 25.4 mm (diameter x height)
- 26-WF0360/A/ CRS - Constant Rate of Strain cell model suitable for external load cell. Specimen size: 63.5 x 25.4 mm (diameter x height)

Accessories

Cutting ring

- 26-WF0360/1/ Cutting ring and accessories for preperation of CRS sample

Standards

- **ASTM D4186**