



The Facility

Independent testing company exclusively devoted to commercial, research and client-specific geotechnical laboratory testing, whose multidisciplinary staff are experienced in all aspects of soil and rock testing.

Dedicated facility for hydraulic (Rowe) cell consolidation and permeability testing.

UKAS accredited laboratory with staff having significant knowledge and experience of many national and international standards and Eurocode requirements.

Rapid processing of test data using in-house developed software to provide clients with reports in printed, PDF and electronic formats.

The Analysis

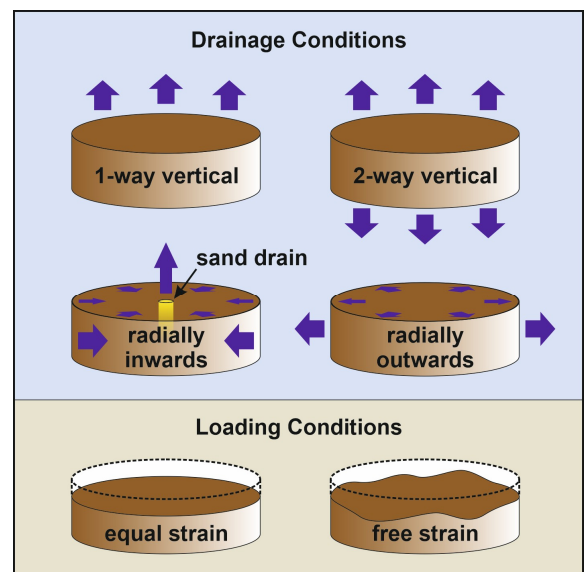
Capability to determine consolidation and permeability parameters of specimens of 75, 100 and 250 mm diameter.

Comprehensive variety of drainage paths include: one-way and two-way vertical, and outwards and inwards horizontal (radially outwards to the periphery, and radially inwards from the periphery to a central sand drain).

Specimens can be consolidated with equal strain (as with an oedometer), or with free strain (where the specimen's height can change variably across its top surface under uniform vertical stress, so accommodating any non-uniform compressibility).

Height change, volume change and base pore pressure are monitored and logged throughout the test allowing flexibility when analysing the test data.

An unlimited number of test stages can be performed, including loading and unloading loops, up to a maximum confining pressure of 3500 kPa.



The Benefits

The wide range of drainage and loading conditions compared to traditional oedometer apparatus allows for closer modelling of in-situ conditions making the derived parameters much more applicable (such as measuring the horizontal permeability of laminated materials).

Capability to test larger, more representative specimens which are particularly suitable for material incorporating coarser particles, and variable materials such as peats.

