

Geotechnical Laboratory

The geotechnical behaviour of soils is an important parameter in and construction works. Geotechnical laboratory testing is in many cases the most efficient method of assessing soil characteristics and is an important part of any soil investigation project. By performing suitable laboratory tests the costs for planning and design can be limited and risks during design and realisation can be reduced.



In our geotechnical laboratory equipment is available for proper handling of disturbed- and undisturbed soil samples. Tests are carried out in accordance with national or international standards. We can assist in establishing a soil sampling and laboratory testing program. If required, additional processing of laboratory results can be performed. The following tests can be carried out in our laboratory:

Classification tests

- Sample classification
- Volume weight and watercontent
- Density of solid particles
- Particle size distribution
- Atterberg limits
- Organic contents
- Shape of grains (Powers)
- Torvane test
- Pocket Penetrotest
- Methylene blue test

Oedometer test

- Coefficient of consolidation
- Load and reload
- Determination of different compressibility
- Characteristics
- CRS test

Permeability

- Falling Head
- Constant Head

Foundation/Stability

- Proctor test
- Determination of in-situ density

Triaxial test

- Unconsolidated Undrained test (UU)
- Consolidated Drained test (CD)
- Consolidated Undrained test (CU)
- Determination of critical density
- Direct Simple Shear test



Several

- Thermal conductivity measurements
- Scaled colour photograph of undisturbed samples

If you would like some more information concerning our activities, please do not hesitate to contact us or visit our website:
www.wiertsema.nl



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