

Range of laboratory activities includes tests of physical and mechanical properties of soils. Detailed scope of tests in following tables.

ACCREDITED TESTS For which all requirements of PN-EN ISO/IEC 17025:2018-02 standard are met		
No.	Type of activity / Parameter tested / Test method. Sampling purpose/ type of test for which the samples are intended.	Reference documents
3	5	6
1.1.1	Soil description Macroscopic and visual assessment method	PN-EN ISO 14688-1:2018 PN-EN ISO 14688-2:2018
1.2.1	Water content Oven drying method	PN-EN ISO 17892-1:2015-02
1.2.2	Plastic limit Thread rolling method	PN-EN ISO 17892-12:2018-08 pt 6.4
1.2.3	Liquid limit Fall cone method	PN-EN ISO 17892-12:2018-08 pt 6.2
1.3.1	Bulk density Linear measurement method	PN-EN ISO 17892-2:2015-02 pt 5.1
1.3.2	Minimum and maximum dry density of soil Vibratory compaction in the cylinder method	PN-B-04481:1988 pt 5.2.7
1.3.3	Particle density Fluid pycnometer method	PN-EN ISO 17892-3:2016-03 pt 5.1
1.3.4	Particle density Gas pycnometer method	PN-EN ISO 17892-3:2016-03 pt 5.2
1.4.1	Particle size distribution Range: (0 – 63,0) mm Sieving method	PN-EN ISO 17892-4:2017-01 pt 5.2
1.4.2	Particle size distribution Range: (0 – 0,063) mm Hydrometer test method	PN-EN ISO 17892-4:2017-01 pt 5.3
2.1.1	Compression and consolidation characteristics of soil Range: (0 – 25) MPa Incremental loading oedometer test method	PN-EN ISO 17892-5:2017-06
2.1.2	Compression and consolidation characteristics of soil Range: (0 – 25) MPa Constant rate of strain test method	ASTM D4186/D4186M- 20
2.3.1	Shear strength Unconsolidated undrained triaxial test (UU) method	PN-EN ISO 17892-8:2018-05
2.3.2	Shear strength Consolidated triaxial compression/extension test on water saturated soils (CU and CD)	PN-EN ISO 17892-9:2018-05
2.4.1	Shear strength Range: (0 – 10) kN Shearbox method	PN-EN ISO 17892-10:2019-01

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2.4.2	Shear strength Range: (0 – 10) kN Ring Shear test apparatus method (Bromhead type apparatus)	PN-EN ISO 17892-10:2019-01
2.4.3	Direct Simple Shear Test Range: (0 ÷ 5092) kPa Monotonic shearing	ASTM D6528-24

NON- ACCREDITED TESTS		
For which all requirements of PN-EN ISO/IEC 17025:2018-02 standard are met		
No.	Type of activity / Parameter tested / Test method	Reference documents
1.5.2	Thermal conductivity of soil	ASTM D5334-22

OTHER TESTS		
For which not all requirements of PN-EN ISO/IEC 17025:2018-02 standard are met		
No.	Type of activity / Parameter tested / Test method	Reference documents
1.1.2	Soil description Macroscopic and visual assessment method	PN-B-04481:1988 pt 3
1.3.2.1	Minimum and maximum dry density of soil NGI & Geolabs method	NGI Recommended method statement Determination of maximum dry density of sands [04.10.2019] NGI Recommended method statement Determination of minimum dry density of sands [20.05.2019]
1.5.1	Organic matter content Loss of mass on ignition	BS 1377-3:2018+A1:2021
1.5.3	Electrical Resistivity of soil	ASTM G57-20
1.5.4	Carbonate content	ASTM D4373- 21
2.2.1	Soil undrained shear strength Torvane test method	PN-B-04481:1988 pt 7.1.2
2.2.2	Soil undrained shear strength Pocket penetrometer test method	PN-B-04481:1988 pt 7.2.1
2.2.3	Soil undrained shear strength Cone penetrometer test method	PN-EN ISO 17892-6:2017-06
2.2.4	Soil undrained shear strength Laboratory vane method	BS 1377-7:1990 pt 3
2.2.5	Measurement of soil sensitivity Laboratory vane method	BS 1377-7:1990 pt 3
2.3.3	Cyclic triaxial test	ASTM D5311/D5311M-25

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2.4.4	Direct Simple Shear Test Vertical Range: 0 ÷ 5092 kPa Cycling shearing	ASTM D8296-19
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