


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>UKAS TESTING 9979</p> <p>Accredited to ISO/IEC 17025:2017</p> | <h3>Horizon Geosciences</h3> <p>Issue No: 010 Issue date: 13 June 2025</p> | |
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| <p>Testing performed at the above address only</p> | | |

DETAIL OF ACCREDITATION

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------|
| SOILS for civil engineering purposes | Moisture content- oven drying method | BS 1377 Part 2:1990 |
| | Liquid limit - cone penetrometer | BS 1377 Part 2:1990 |
| | Liquid limit - cone penetrometer - single point | BS 1377 Part 2:1990 |
| | Plastic limit | BS 1377 Part 2:1990 |
| | Plasticity index and liquidity index | BS 1377 Part 2:1990 |
| | Particle size distribution - wet sieving | BS 1377 Part 2:1990 |
| | Particle size distribution - dry sieving | BS 1377 Part 2:1990 |
| | Particle size distribution - hydrometer method | BS 1377 Part 2:1990 |
| | Particle density – small pycnometer | BS 1377 Part 2:1990 |
| | Undrained shear strength – triaxial compression without measurement of pore pressure | BS 1377 Part 7:1990 |
| | Shear strength - small shearbox | BS 1377 Part 7:1990 |
| | Consolidation | BS 1377 Part 5: 1990 |
| Determination of the Chloride Content - Determination of water soluble chloride content | BS 1377 Part 3 :2018 +A1 2021, Clause 9.2 | |



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| SOILS for civil engineering purposes (cont'd) | Determination of the Chloride content - Determination of acid soluble chloride content | BS 1377 Part 3 :2018 +A1 2021, Clause 9.3 |
| | Determination of sulfur compounds. Sampling, sample storage and sample preparation | BS1377 Part 3 :2018 +A1 2021, Clause 7.2 |
| | Determination of water-soluble sulfate in soil | BS1377 Part 3 :2018 +A1 2021, Clause 7.3 |
| | Gravimetric method for analysis of acid or water extract or groundwater sulfate | BS1377 Part 3 :2018 +A1 2021, Clause 7.6 |
| | Determination of the pH value | BS1377 Part 3 :2018 +A1 2021, Clause 12 |
| | Determination of the mass loss on ignition, Organic matter in the soil | BS1377 Part 3 :2018 +A1 2021, Clause 6 |
| | Rapid titration method for determination of calcium carbonate content | BS 1377 Part 3 :2018 +A1 2021, Clause 8.3 |
| SOIL and ROCK | Standard test method for Unconsolidated – Undrained Triaxial Compression Test on Cohesive Soils | ASTM D2850-24 |
| | Standard test method for laboratory miniature vane shear test for saturated fine-grained clayey soil | ASTM D4648/D4648M-24a |
| | Determination of Thermal Conductivity of Soil and Soft Rock by Thermal Needle Probe Procedure | ASTM D5334-22ae1 |
| | Standard Test Method for Field Measurement of Soil Resistivity Using the Wenner Four-Electrode Method | ASTM G57 - 20 Clause 7.2 |
| | Standard test method for laboratory determination of water (moisture) content of soil and rock by mass | ASTM D2216-19 |



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| SOIL and ROCK (cont'd) | Standard Test Methods for Laboratory Determination of Density (Unit Weight) of Soil | ASTM D7263-21 |
| | Standard test method for determination of the point load strength index of rock and application to rock strength classification | ASTM D5731-16 |
| | Preparing Rock Core as cylindrical test specimens and verifying conformance to dimensional and shape tolerances | ASTM D4543-19 |
| | Compressive Strength and Elastic Moduli of Intact Core Specimens | ASTM D7012-23 |
| | Standard Test Methods for Specific Gravity of Soil Solids by Water Pycnometer | ASTM D854-23 |
| | Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils | ASTM D4318-17e1 |
| | Dry Preparation of soil samples for particle-size analysis and determination of soil constants | ASTM D421-85 (2007) |
| | Wet Preparation of Soil Samples for Particle Size Analysis and Determination of Soil Constants | ASTM D2217-88 |
| | Standard test method for particle-size analysis of soils | ASTM D422-63 (2007) e2 |
| | Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis | ASTM D6913/D6913M-17 |
| Standard Test Methods for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis | ASTM D7928-17 | |



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| SOIL and ROCK (cont'd) | Standard test method for rapid determination of carbonate content of soils | ASTM D4373-21 | |
| | Standard Test Methods for Moisture, Ash, and Organic Matter of Peat and Other Organic Soils | ASTM D2974-20e1 | |
| | Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density | ASTM D4254-16 | |
| | Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table | ASTM D4253-16 | |
| | Standard Test Methods for One-Dimensional Consolidation Properties of Soils Using Incremental Loading | ASTM D2435/D2435M-11 | |
| | Standard Test Methods for Direct Shear Test of Soils Under Consolidated Drained Conditions | ASTM D3080/D3080M-11 | |
| | GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil | Water content | BS EN ISO 17892-1:2014 |
| | | Bulk density - linear measurement method | BS EN ISO 17892-2:2014 |
| | | Determination of particle density – fluid pycnometer method | BS EN ISO 17892-3:2015 |
| | | Determination of particle size distribution -sieving method | BS EN ISO 17892-4:2016 |
| Determination of particle size distribution -hydrometer method | | BS EN ISO 17892-4:2016 | |
| Incremental loading oedometer test | | BS EN ISO 17892-5: 2017 | |
| Unconsolidated undrained triaxial test | BS EN ISO 17892-8:2018 | | |



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| GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil (cont'd) | Direct Shear Tests – Small Shearbox | BS EN ISO 17892-10:2018 |
| | Determination of liquid limit by the fall cone method | BS EN ISO 17892-12 2018 |
| | Determination of plastic limit | BS EN ISO 17892-12 2018 |
| | Plasticity Index and Liquidity Index | BS EN ISO 17892-12 2018 |
| END | | |