


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>UKAS</b> TESTING <b>4043</b>  Accredited to <b>ISO/IEC 17025:2017</b>	<b>Professional Soils Laboratory Ltd</b>	
	Issue No: 021    Issue date: 15 March 2023	
	<b>5/7 Hexthorpe Road</b> Hexthorpe Doncaster DN4 0AR	<b>Contact: Mr A Watkins</b> Tel: +44 (0)844 815 6641 Fax: +44 (0)844 815 6642 E-Mail: <a href="mailto:awatkins@prosoils.co.uk">awatkins@prosoils.co.uk</a> Website: <a href="http://www.prosoils.co.uk">www.prosoils.co.uk</a>
Testing performed by the Organisation at the locations specified below		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> 5/7 Hexthorpe Road Hexthorpe Doncaster DN4 0AR	<b>Local contact</b> Mr A Watkins  Tel: +44 (0)844 815 6641 Fax: +44 (0)844 815 6642	Aggregates Rock & and Soils  Laboratory

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
All locations suitable for the activities listed	Soils	Site



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES	Particle size distribution - sieving method	BS EN 933-1:2012	Laboratory
	Determination of resistance to fragmentation by the Los Angeles test method	BS EN 1097-2-2020	Laboratory
ROCK	Point load strength	ISRM Commission on Testing Methods, Suggested Method for Determining Point Load Strength 1985	Laboratory
	Unconfined Compressive Strength	The Complete ISRM Suggested Methods – Rock Characterization Testing and Monitoring 1974 – 2006, Editors: R Ulusay & J A Hudson	Laboratory
	Water Content	The Complete ISRM Suggested Methods – Rock Characterization Testing and Monitoring 1974 – 2006, Editors: R Ulusay & J A Hudson	Laboratory
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Laboratory
	Saturation moisture content of chalk	BS 1377-2:1990	Laboratory
	Liquid limit - cone penetrometer	BS 1377-2:1990	Laboratory
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Laboratory
	Linear shrinkage	BS 1377-2:1990	Laboratory
	Plastic limit	BS 1377-2:1990	Laboratory
	Plasticity index and liquidity index	BS 1377-2:1990	Laboratory



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes (cont'd)	Particle density - gas jar	BS 1377-2:1990	Laboratory
	Particle size distribution - wet sieving	BS 1377-2:1990	Laboratory
	Particle size distribution - dry sieving	BS 1377-2:1990	Laboratory
	Uniformity coefficient	Specification for Highways Works – Table 6/1 footnote 5	Laboratory
	Particle size distribution - sedimentation - pipette method	BS 1377-2:1990	Laboratory
	Density –linear measurement	BS 1377-2:1990	Laboratory
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	Laboratory
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	Laboratory
	Dry density/moisture content relationship (vibrating hammer)	BS 1377:Part 4:1990	Laboratory
	California Bearing Ratio (CBR)	BS 1377-4:1990	Laboratory
	Moisture condition value MCV - natural moisture content	BS 1377-4:1990	Laboratory Site
	Moisture condition value MCV/moisture content relation	BS 1377-4:1990	Laboratory
	One-dimensional consolidation properties	BS 1377-5:1990	Laboratory
	One dimensional swell / strain	Documented In-House method No. IHLTP01:May 2011	Laboratory
Permeability in a triaxial cell	BS 1377-6:1990	Laboratory	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes (cont'd)	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377-7:1990	Laboratory
	Undrained shear strength - triaxial compression with multistage loading and without measurement of pore pressure	BS 1377-7:1990	Laboratory
	Shear strength – small shearbox	BS 1377-7:1990	Laboratory
	Shear strength – large shearbox	BS 1377-7:1990	Laboratory
	Effective angle of internal friction and effective cohesion of earthworks materials	BS 1377:Part 7:1990 and Specification for Highway Works: February 2016: clause 636	Laboratory
	Residual shear strength - ring shear apparatus	BS 1377-7:1990	Laboratory
	Effective shear strength - consolidated-undrained triaxial compression test with measurement of pore pressure	BS 1377-8:1990	Laboratory
	Effective shear strength - consolidated-undrained triaxial compression test with measurement of pore pressure - multistage tests	DIHM LTP13	Laboratory
	Effective shear strength - consolidated-drained triaxial compression test with measurement of volume change	BS 1377-8:1990	Laboratory
Effective shear strength - consolidated-drained triaxial compression test with measurement of volume change - multistage tests	DIHM LTP12	Laboratory	



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SOILS for civil engineering purposes (cont'd)	Soil suction (filter-paper method)	Documented In-House Method based on BRE IP4/93 No. IHLTP02:May 2011	Laboratory
	In-situ density - sand replacement method (small pouring cylinder)	BS 1377-9:1990	Site
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	Site
	In-situ density - core cutter method	BS 1377-9:1990	Site
	Vertical deformation and strength characteristics by the incremental plate loading test	BS 1377-9:1990	Site
	In-situ California Bearing Ratio (CBR)	BS 1377-9:1990	Site
	Determination of equivalent CBR value using the plate bearing test (loads from 1 to 500 kN)	Design Manual for Roads and Bridges. Volume 7: Pavement Design and Maintenance. HD 25/94:Foundations	Site
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014	Laboratory
	Bulk density - linear measurement method	BS EN ISO 17892-2:2014	Laboratory
	Determination of particle size distribution - sieving method	BS EN ISO 17892-4:2016	Laboratory
	Determination of particle size distribution - pipette method	BS EN ISO 17892-4:2016	Laboratory
	Incremental loading oedometer test	BS EN ISO 17892-5:2017	Laboratory
	Unconsolidated undrained triaxial test	BS EN ISO 17892-8:2018	Laboratory



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GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil (cont'd)	Consolidated triaxial compression tests on water saturated soils	BS EN ISO 17892-9:2018	Laboratory
	Direct Shear Tests – Small Shearbox	BS EN ISO 17892-10:2018	Laboratory
	Direct Shear Tests – Large Shearbox	BS EN ISO 17892-10:2018	Laboratory
	Direct Shear Tests – Ring Shear Test	BS EN ISO 17892-10:2018	Laboratory
	Permeability in a triaxial cell	BS EN ISO 17892-11 2019	Laboratory
	Determination of liquid limit by the fall cone method	BS EN ISO 17892-12 2018	Laboratory
	Determination of plastic limit	BS EN ISO 17892-12 2018	Laboratory
	Plasticity Index and Liquidity Index	BS EN ISO 17892-12 2018	Laboratory
END			