Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0126

Accredited to ISO/IEC 17025:2017

Terra Tek Limited trading as Igne

Issue No: 090 **Issue date**: 06 June 2025

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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
Address The New Forge College Road North Aston Clinton Aylesbury Buckinghamshire HP22 5EZ	**Local contact** Miss J Hopkins Tel: +44 (0)1494 810136 Email: julie.hopkins@igne.com	Testing: Aggregates Soils	Aston Clinton
Address Unit 1 Mitchells Enterprise Centre Bradberry Balk Lane Wombwell Barnsley S73 8HR	**Local contact** Mr R Hobson Tel: +44 (0) 7714 619222 Email: ryan.hobson@igne.com	Testing: Fresh Concrete Hardened Concrete	Barnsley
Address Unit 6, Belgrave Street Bellshill Industrial Estate Bellshill ML4 3NP	**Local contact** Mr S. Gilchrist Tel: +44 (0)1236 747949 Email: scott.gilchrist@igne.com	Testing: Aggregates Fresh Concrete Hardened Concrete Rock Soils Unbound and hydraulically bound materials	Bellshill
Address Unit 1 Caxton Close Daventry Northamptonshire NN11 8RT	**Local contact** Mrs M Chandler Tel: +44 (0) 371 789 1000 Email: maria.chandler@igne.com	Testing: Aggregates Fresh Concrete Hardened Concrete Soils Unbound and hydraulically bound materials	Daventry

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Site activities performed away from the locations listed above:

Location details	Activity	Location code
All locations suitable for the activities listed	Testing: Fresh Concrete Soils	Site

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES	Ten per cent fines value - dry - particle size 10mm and greater	BS 812-111:1990	Bellshill
	Ten per cent fines value – soaked - particle size 10mm and greater	BS 812-111:1990	Bellshill
	Aggregate crushing value - particle size 10 mm and greater	BS 812-110:1990	Bellshill
	Sampling stockpiles of fine aggregates by hand	BS EN 932-1:1997	Site
	Sampling stockpiles of coarse aggregates by hand	BS EN 932-1:1997	Site
	Sample reduction by quartering	BS EN 932-2:1999	Bellshill Daventry
	Sample reduction using a riffle box	BS EN 932-2:1999	Bellshill Daventry
	Sample reduction to a specified mass within a small tolerance	BS EN 932-2:1999	Bellshill
	Particle size distribution - sieving method	BS EN 933-1:2012	Aston Clinton Bellshill Daventry
	Particle shape - flakiness index	BS EN 933-3:2012	Bellshill
	Uniformity coefficient	Specification for Highway Works table 6/1 footnote 5	Aston Clinton Bellshill
	Constituents of coarse recycled aggregate	BS EN 933-11:2009	Aston Clinton Daventry

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES (cont'd)	Magnesium Sulphate Test	BS EN 1367-2:2009	Bellshill
	Resistance to fragmentation by the Los Angeles Method	EN 1097-2:2020	Bellshill
	Determination of water content by drying in a ventilated oven	BS EN 1097-5:2008	Bellshill
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2022	Bellshill Daventry
CONCRETE - fresh	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2019	Site
	Making cubic specimens for strength tests – including initial curing	BS EN 12390-2:2019	Site
	Slump test	BS EN 12350-2:2019	Site
	Flow table	BS EN 12350-5:2019	Site
	Air Test	BS EN 12350-7:2019	Site
CONCRETE - hardened	Shape and dimensions for cubic specimens and moulds	BS EN 12390-1:2021	Bellshill Barnsley Daventry
	Making and curing cubic specimens	BS EN 12390-2:2019	Bellshill Barnsley Daventry
	Compressive strength of cubic specimens	BS EN 12390-3:2019	Bellshill Barnsley Daventry
	Density	BS EN 12390-7:2019	Bellshill Barnsley Daventry

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ROCK	Water content	The Complete ISRM Suggested Methods – Rock Characterization Testing and Monitoring 1974 – 2006, Editors: R Ulusay & J A Hudson	Bellshill
	Point load strength and anisotropy indices	ISRM Commission on Testing Methods, Suggested Method for Determining Point Load Strength 1985	Bellshill
	Slake Durability Index	The Complete ISRM Suggested Methods – Rock Characterization Testing and Monitoring 1974 – 2006, Editors: R Ulusay & J A Hudson	Bellshill
	Porosity and density-by saturation and caliper techniques	The Complete ISRM Suggested Methods – Rock Characterization Testing and Monitoring 1974 – 2006, Editors: R Ulusay & J A Hudson	Bellshill
	End preparation of rock specimens for compressive strength	ASTM D 4543-19	Bellshill
	Unconfined compressive strength	ASTM D 7012-23	Bellshill
	Unconfined compressive strength	The Complete ISRM Suggested Methods – Rock Characterization Testing and Monitoring 1974 – 2006, Editors: R Ulusay & J A Hudson	Bellshill
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014 +A1:2022	Aston Clinton Bellshill Daventry
	Bulk density - linear measurement method	BS EN ISO 17892-2:2014	Aston Clinton Bellshill

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil (cont'd)	Particle density – fluid pycnometer	BS EN ISO 17892-3:2015	Aston Clinton
	Determination of particle size distribution -sieving method	BS EN ISO 17892-4:2016	Aston Clinton Bellshill Daventry
	Determination of particle size distribution -pipette method	BS EN ISO 17892-4:2016	Aston Clinton Bellshill
	Determination of particle size distribution - hydrometer method	BS EN ISO 17892-4:2016	Daventry
	Incremental loading oedometer test	BS EN ISO 17892-5: 2017	Aston Clinton Bellshill
	Unconfined Compression Test	BS EN ISO 17892-7:2018	Aston Clinton
	Unconsolidated Undrained Triaxial	BS EN ISO 17892-8:2018	Aston Clinton Bellshill
	Isotropically consolidated triaxial compression tests on water saturated soils	BS EN ISO 17892-9:2018	Aston Clinton
	Determination of shear strength by direct shear – shearbox	BS EN ISO 17892-10:2018	Aston Clinton Bellshill
	Determination of permeability in a flexible wall permeameter	BS EN ISO 17892-11:2019	Aston Clinton
	Determination of permeability in a cylindrical permeameter	BS EN ISO 17892-11:2019	Aston Clinton
	Determination of liquid limit by the fall cone method	BS EN ISO 17892-12 2018 +A2:2022	Aston Clinton Bellshill Daventry

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil (cont'd)	Determination of plastic limit	BS EN ISO 17892-12 2018 +A2:2022	Aston Clinton Bellshill Daventry
	Plasticity Index and Liquidity Index	BS EN ISO 17892-12 2018 +A2:2022	Aston Clinton Bellshill Daventry
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Aston Clinton Bellshill
	Water content - oven drying method	BS 1377-2:2022	Aston Clinton Bellshill Daventry
	Saturation moisture content of chalk	BS 1377-2:1990	Aston Clinton
	Liquid limit - cone penetrometer	BS 1377-2:1990	Aston Clinton Bellshill
	Liquid limit - cone penetrometer	BS 1377-2:2022	Aston Clinton Bellshill Daventry
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Aston Clinton
	Liquid limit - cone penetrometer - one point	BS 1377-2:2022	Aston Clinton Daventry
	Plastic limit	BS 1377-2:1990	Aston Clinton Bellshill

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)	Plastic limit	BS 1377-2:2022	Aston Clinton Bellshill Daventry
	Plasticity index and liquidity index	BS 1377-2:1990	Aston Clinton Bellshill
	Plasticity index and liquidity index	BS 1377-2:2022	Aston Clinton Bellshill Daventry
	Linear shrinkage	BS 1377-2:1990	Aston Clinton
	Linear shrinkage	BS 1377-2:2022	Aston Clinton
	Density – linear measurement	BS 1377-2:1990	Aston Clinton Bellshill
	Density – linear measurement	BS 1377-2:2022	Bellshill
	Particle density - gas jar	BS 1377-2:1990	Aston Clinton Bellshill
	Particle density - gas jar	BS 1377-2:2022	Bellshill Daventry
	Particle density - fluid pyknometer	BS 1377-2:2022	Aston Clinton
	Particle size distribution - wet sieving	BS 1377-2:1990	Aston Clinton Bellshill
	Particle size distribution - wet sieving	BS 1377-2:2022	Aston Clinton Bellshill Daventry

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 size distribution - dry sieving	BS 1377-2:1990	Aston Clinton Bellshill
	Particle size distribution - dry sieving	BS 1377-2:2022	Aston Clinton Bellshill Daventry
	Particle size distribution - sedimentation - pipette method	BS 1377-2:1990	Aston Clinton Bellshill
	Particle size distribution - sedimentation - hydrometer method	BS 1377-2:2022	Daventry
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	Aston Clinton Bellshill
	Dry density/water content relationship (2.5 kg rammer)	BS 1377-2:2022	Daventry Bellshill
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	Aston Clinton Bellshill
	Dry density/water content relationship (4.5 kg rammer)	BS 1377-2:2022	Daventry Bellshill
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	Aston Clinton Bellshill
	Dry density/water content relationship (vibrating hammer)	BS 1377-2:2022	Daventry Bellshill
	California Bearing Ratio (CBR)	BS 1377-4:1990	Aston Clinton Bellshill
	California Bearing Ratio (CBR)	BS 1377-2:2022	Bellshill Daventry

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)	Measurement of swelling of soaked CBR specimen	BS 1377-2:2022	Daventry
	Moisture condition value (MCV) – natural moisture content	BS 1377-4:1990	Aston Clinton Bellshill
	Moisture condition value (MCV) – natural water content	BS 1377-2:2022	Aston Clinton Bellshill Daventry
	MCV/moisture content relation	BS 1377-4:1990	Aston Clinton Bellshill
	MCV/water content relation	BS 1377-2:2022	Aston Clinton Bellshill Daventry
	Chalk crushing value	BS 1377-4:1990	Aston Clinton
	One-dimensional consolidation properties	BS 1377-5:1990	Aston Clinton
	Swelling and collapse characteristics	BS 1377-5:1990	Aston Clinton Bellshill
	Permeability - constant head method	BS 1377-5:1990	Aston Clinton
	Dispersibility - pinhole method	BS 1377-5:1990	Aston Clinton
	Permeability in a triaxial cell	BS 1377-6:1990	Aston Clinton
	Shear strength – small shearbox	BS 1377-7:1990	Aston Clinton Bellshill
	Shear strength – small shearbox	BS 1377-2:2022	Bellshill

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)	Shear strength – large shearbox	BS 1377-7:1990	Aston Clinton
	Unconfined compressive strength - load frame method	BS 1377-7:1990	Aston Clinton
	Unconfined Compression Test	BS 1377-2:2022	Aston Clinton
	Hand Held Shear Vane	NZ Geotechnical Society Inc Aug 2001	Site
	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377-7:1990	Aston Clinton Bellshill
	Unconsolidated Undrained Triaxial	BS 1377-2:2022	Aston Clinton Bellshill
	Undrained shear strength – triaxial compression with multistage loading and without measurement of pore pressure	BS 1377-7:1990	Aston Clinton Bellshill
	Effective shear strength - consolidated-undrained triaxial compression test with measurement of pore pressure	BS 1377-8:1990	Aston Clinton
	Effective shear strength - consolidated-drained triaxial compression test with measurement of volume change	BS 1377-8:1990	Aston Clinton
	Uniformity coefficient	Specification for Highway Works table 6/1 footnote 5	Aston Clinton Bellshill
	Effective angle of internal friction and effective cohesion	Specification for Highway Works, HMSO February 2016 Clause 636 using Large Shearbox	Aston Clinton

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)	Coefficient of friction and adhesion between fill and reinforcing elements or anchor elements	Specification for Highway Works, HMSO February 2016 Clause 639 using Large Shearbox	Aston Clinton
	Effective shear strength - (isotropically) consolidated undrained multistage triaxial compression test with measurement of pore pressure	Documented in-house method No TP 120	Aston Clinton
	Effective shear strength - (isotropically) consolidated drained multistage triaxial compression test with measurement of volume change	Documented in-house method No TP 120	Aston Clinton
	Horizontal permeability of road drainage layers - using the permeability box	DMRB CD 225 Design for new pavement foundations, Revision 1	Aston Clinton
	Determination of Thermal Conductivity of Soil and Soft Rock by Thermal Needle Probe Procedure	ASTM D5334-22a	Aston Clinton Bellshill Site
	Moisture condition value – at natural moisture content	SDD Tech Memo SH7/83. SDD Appls Guide No1 (Rev 1989)	Aston Clinton Bellshill
	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
	In-situ bulk density - nuclear method - comparative tests	BS 1377-9:1990	Site

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)	In-situ bulk density - nuclear method - absolute tests	BS 1377-9:1990	Site
	In-situ bulk density - nuclear method - compliance tests	BS 1377-9:1990	Site
	In-situ moisture density - nuclear method - comparative tests	BS 1377-9:1990	Site
	In-situ moisture density - nuclear method - absolute tests	BS 1377-9:1990	Site
	In-situ moisture density - nuclear method - compliance tests	BS 1377-9:1990	Site
	In-situ California Bearing Ratio (CBR)	BS 1377-9:1990	Site
	Vertical deformation and strength characteristics of soil by the plate loading test	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, Interim Advice Note 73/06, Rev 1: 2009	Site
	Moisture condition value – at natural moisture content	SDD Tech Memo SH7/83. SDD Appls Guide No1 (Rev 1989)	Site
UNBOUND AND HYDRAULICALLY BOUND MATERIALS	Laboratory reference density and water content – Proctor compaction	BS EN 13286-2:2010	Bellshill Daventry
	Laboratory reference density and water content – Vibrating hammer	BS EN 13286-4:2021	Bellshill Daventry
	Test method for the determination of the moisture condition value	BS EN 13286-46:2003	Bellshill

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
UNBOUND AND HYDRAULICALLY BOUND MATERIALS (cont'd)	Test method for the determination of California bearing ratio, immediate bearing index and linear swelling	BS EN 13286-47:2021	Bellshill Daventry
	Test method for the determination of the degree of pulverisation	BS EN 13286-48:2005	Bellshill
END			