Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0999

Accredited to ISO/IEC 17025:2017

ACS Testing Limited also trading as XtraTec

Issue No: 081 **Issue date:** 31 March 2025

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Testing performed by the Organisation at the locations specified below

ACS Testing Limited is accredited for a scope that enables it to establish new temporary site laboratories to conduct the construction materials testing and sampling activities that are indicated in the table below with the location code X. These site laboratories are set up in accordance with the Documented In-House Procedure AF26.

Locations covered by the Organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Unit 14 Blackhill Road West Holton Heath Trading Park Poole Dorset BH16 6LE	**Local contact** Mr R Spracklen	Laboratory testing	A
Address Unit 1, Wick Quarry London Road Wick Bristol BS30 5SJ	**Local contact** Mr R Spracklen	Laboratory and site testing	C
Address Unit S3B, Rosier Park, Coneyhurst Road, Billingshurst, West Sussex, RH14 9DE	**Local contact** Mr S Cutler	Laboratory and site testing	E
Address Unit D11, Admiralty Park Poole Dorset BH16 6HX	**Local contact** Mr R Spracklen	Laboratory testing	F

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Testing performed by the Organisation at the locations specified

Location details		Activity	Location code
Address Truro NAR Langarth Park Threemilestone Truro Cornwall TR4 9AN	**Local contact** Mr K Goodall	Laboratory and site testing	G
Address Unit 4 Rose Lane Industrial Estate Lenham Heath Kent ME17 2JN	**Local contact** Mr A Schofield	Laboratory and site testing	H – Trading as XtraTec
Address Site Laboratory Eastern Quarry Watling Street Ebbsfleet Valley Dartford Kent DA2 8AH	**Local contact** Mr D Petty	Laboratory and site testing	J – Trading as XtraTec

Site activities performed away from the locations listed above:

Location details		Activity	Location code
All locations suitable for the activities listed	**Local contact** Mr R Spracklen	Aggregates Bituminous mixtures for roads and other paved areas Concrete Paved surfaces Soils for civil engineering purposes	B

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 10 mm and greater	BS 812-111:1990	A
	Ten per cent fines value - soaked - particle size 10 mm and greater	BS 812-111:1990	A
	Frost-heave	BS 812-124:2009	A
	Sampling stockpiles of fine aggregates by hand	BS EN 932-1:1997	B, X
	Sampling stockpiles of coarse aggregates by hand	BS EN 932-1:1997	B, X
	Sampling from the working face of aggregate	Documented In-House Method In-situ Works Procedures Manual Section 2 Number 2	B
	Methods of reducing laboratory samples - using a riffle box - reduction by quartering	BS EN 932-2:1997	A, C, E, H
	Methods of reducing laboratory samples - to a test portion of a specified mass within a small tolerance	BS EN 932-2:1997	A, C, E, H
	Particle size distribution - sieving method	BS EN 933-1:2012	A, C, E, H, X
	Flakiness index	BS EN 933-3:2012	A, X
	Shape index	BS EN 933-4:2008	A, X
	Shell content - percentage of shells in coarse aggregates	BS EN 933-7:1998	A, X
	Assessment of fines - sand equivalent test	BS EN 933-8:2012 + A1:2015	A, X
	Assessment of fines - methylene blue test	BS EN 933-9:2022	A, X

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES (cont'd)	Assessment of fines - methylene blue value of the 0/0,125 mm fraction	BS EN 933-9:2022	A
	Classification test for the constituents of coarse recycled aggregate	BS EN 933-11:2009	A, C, E, H, X
	Micro-Deval coefficient	BS EN 1097-1:2023	A
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2020	A, H
	Loose bulk density and voids	BS EN 1097-3:1998	A, C, X
	Compacted dry bulk density	BS EN 1097-3:1998	A, C, X
	Loose bulk density with damp aggregates	BS EN 1097-3:1998	A, C, X
	Water content – drying in a ventilated oven	BS EN 1097-5:2008	A, C, E, H, X
	Particle density and water absorption - wire-basket method for aggregate particles between 31,5 mm and 63 mm	BS EN 1097-6:2022	A
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2022	A
	Particle density and water absorption - pyknometer method for aggregate particles between 0,063 mm and 4 mm	BS EN 1097-6:2022	A
	Magnesium sulfate test	BS EN 1367-2:2009	A
	Constituent materials in recycled aggregate and recycled concrete aggregate	Specification for Highway Works, HMSO November 2004 Clause 710	A, C, E, X
	Uniformity coefficient	Specification for Highway Works, HMSO November 2007 Table 6/1, Footnote 5	A, C, E, H, X

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BITUMINOUS MIXTURES for roads and other paved areas	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2020	A
	Particle size distribution	BS EN 12697-2:2015+A1:2019	A
	Maximum density - volumetric procedure	BS EN 12697-5:2018	A
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen	BS EN 12697-6:2020	A
	Air voids content	BS EN 12697-8:2018	A
	Measurement material temperature after it has been laid and before or during rolling	BS EN 12697-13:2017 including corrigendum July 2022 Contact thermometer	B, X
	Measurements of temperature in a heap	BS EN 12697-13:2017 including corrigendum July 2022 Contact thermometer	B, X
	Measurements of temperature in a paver hopper	BS EN 12697-13:2017 including corrigendum July 2022 Infrared thermometer	B,X
	Measurements of temperature in a heap	BS EN 12697-13:2017 including corrigendum July 2022 Infrared thermometer	B,X
	Sampling from the material around the augers of the paver	BS EN 12697-27:2017	B, X
	Sampling of workable material in heaps	BS EN 12697-27:2017	B, X
	Sampling coated chippings from stockpiles	BS EN 12697-27:2017	B, X
	Sampling of laid and compacted materials by core cutter	BS EN 12697-27:2017	B, X

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BITUMINOUS MIXTURES for roads and other paved areas	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2020	A, B, C, E, X
	Determination of the dimensions of a bituminous specimen	BS EN 12697-29: 2020	F, X
	Determination of the thickness of a bituminous pavement - destructive measurement	BS EN 12697-36:2022	F, H, X
	Measurements of temperature - in a wagon	Documented In-House Method In-situ Works Procedures Manual Section 5 Number 1	B, X
	PAH screening by PAK marker	Managing reclaimed asphalt, Highways and Pavements, an ADEPT & Construction Demolition Waste Forum Guidance Note, Version 2019 Revision 1, Clauses D1.0 and D2.0	F, X
	Logging of material description of cored specimens	In-House Test Procedure No.3	F, H, X
CONCRETE - fresh	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2019	A, B, C, E, H, X
	Slump	BS EN 12350-2:2019	A, B, C, E, H, X
	Degree of compactability	BS EN 12350-4:2019	B
	Flow table test	BS EN 12350-5:2019	B
	Air content – pressure gauge Method	BS EN 12350-7:2019	A, B, C, E, H, X
	Self compacting concrete - slump flow test	BS EN 12350-8:2019	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE – fresh (cont'd)	Making and curing specimens for strength tests	BS EN 12390-2:2019	A, B, C, E, H, X
	Making and curing test prisms for strength tests	BS EN 12390-2:2019	B, H
	Determination of compacting factor	BS 1881-103:1993, Annex A	B
CONCRETE - hardened	Compressive strength of cubes - including curing and dimensions	BS EN 12390-3:2019 BS EN 12390-2:2019 BS EN 12390-1:2021	A, C, E, H, X
	Flexural strengths of prisms Including curing	BS EN 12390-5:2019 BS EN 12390-2:2019 BS EN 12390-1:2021	H
	Density	BS EN 12390-7:2019+AC:2020	A, C, E, H, X
	Taking cores	BS EN 12504-1:2019	B, X
	Cored specimens - examining and testing in compression	BS EN 12504-1:2019	A, H, X
NATURAL STONE	Slip resistance by means of the pendulum tester	BS EN 14231:2003	A
REINSTATEMENT OF OPENINGS IN HIGHWAYS	Pavement construction	Methods of test required for the assessment of conformity under the New Roads and Street Works Act (1991) (Specification for the Reinstatement of Openings in Highways)	
	Determination of the thickness of a bituminous pavement – destructive measurement	BS EN 12697-36:2022	F, X
	Logging of material descriptions of cored specimens	In-House Test Procedure No.5	F, X

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ROAD PAVEMENT SURFACES	Texture depth - by the sand-patch method	BS 598-105:2000	B, X
	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	B, X
	Macrotexture depth - volumetric patch technique	Specification for Highway Works, HMSO May 2001 Clause 1031	B, X
	Surface regularity using a rolling straight-edge	TRRL Supplementary Report 290:1977	B
ROCK	Water content	ISRM Suggested Method - 1977	A, X
	Point load strength	ISRM Suggested Method - 1985	A, X
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	A, C, E, G, H, J, X
	Water content - oven drying method	BS 1377-2:2022	H, J
	Saturation moisture content (SMC) of chalk	BS 1377-2:1990	J
	Saturation moisture content / intact lump dry density of chalk	BS 1377-2:2022 Specification for Highway Works, HMSO November 2005 Clause 634	A, J, X
	Liquid limit - cone penetrometer - definitive method	BS 1377-2:1990	A, C, E, J, X,
	Liquid limit - cone penetrometer - one point method	BS 1377-2:1990	A, C, E, G, H, J, X
	Liquid limit - cone penetrometer - one point method	BS 1377-2:2022	H
	Plastic limit	BS 1377-2:1990	A, C, E, G, H, J, X

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	H
	Plasticity index and liquidity index	BS 1377-2:1990	A, C, E, G, H, J, X
	Plasticity index and liquidity index	BS 1377-2:2022	H
	Density - linear measurement	BS 1377-2:1990	A, X
	Particle density - gas jar	BS 1377-2:2022	A, C, E, X
	Particle density - small pyknometer	BS 1377-2:1990	A, X
	Particle size distribution - wet sieving	BS 1377-2:1990	A, C, E, G, H, J, X
	Particle size distribution - dry sieving	BS 1377-2:1990	A, C, E, G, X
	Particle size distribution	BS 1377-2:2022	H
	Particle size distribution - sedimentation by the hydrometer method	BS 1377-2:1990	A, X
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	H, J
	Dry density/water content relationship (2.5 kg rammer)	BS 1377-2:2022	A, C, E, G, H, J, X
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	H
	Dry density/water content relationship (4.5 kg rammer)	BS 1377-2:2022	A, C, E, H, X
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	H

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)	Dry density/water content relationship (vibrating hammer)	BS 1377-2:2022	A, H, X
	MCV - natural moisture content	BS 1377-4:1990	H
	MCV - natural water content	BS 1377-2:2022	A, B, C, E, H, X
	MCV/water content relation of a soil	BS 1377-2:2022	A, C, E, X
	California Bearing Ratio (CBR)	BS 1377-2:2022	A, X
	Measurement of swelling of soaked CBR specimen	BS 1377-2:2022	A, X
	Permeability in a triaxial cell	BS 1377-6:1990	A
	Undrained shear strength - triaxial compression with single stage loading and without measurement of pore pressure	BS 1377-7:1990	A, X
	Undrained shear strength - triaxial compression with multistage loading and without measurement of pore pressure	BS 1377-7:1990	A, X
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	B, X
	In-situ density - core cutter method	BS 1377-9:1990	B, X
	In-situ bulk density - nuclear method - comparative tests	BS 1377-9:1990	B, X
	In-situ bulk density - nuclear method - absolute tests	BS 1377-9:1990	B, X

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 - compliance tests	BS 1377-9:1990	B, X
	Vertical deformation and strength characteristics of soil by the plate loading test	BS 1377-9:1990	B, X
	In-situ California Bearing Ratio (CBR)	BS 1377-9:1990	B, X
	In-situ density (unit weight) - Dielectric method	ASTM D7830/D7830M-14	B
	Uniformity coefficient	Specification for Highway Works, HMSO November 2007 Table 6/1, Footnote 5	A, C, E, G, H, J, X
	Undrained shear strength of remoulded cohesive material	Specification for Highway Works, HMSO March 1998 Clause 633	A, X
	Calculation of nominal CBR value using the plate bearing test	DMRB, IAN 73/06 Design of Pavement Foundations, Rev 1: 2009	B, X
	Dynamic cone penetrometer test (DCP)	Specification for Highway Works: Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 Revision 1 (2009)	B, X
	Calculation of nominal CBR value using the Dynamic Cone Penetrometer (DCP)	DMRB, CS229 Data for Pavement Assessment, Rev 0: 2020	B, X
	Determination of the permeability of clayey soils in a triaxial cell using the accelerated permeability test	Environment Agency R & D Technical Report P1-398/TR/2 : January 2003	A
	Sampling from cut face and laid material	Documented In-House Method In-situ Works Procedures Manual Section 4 Number 1	B

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	Water content	BS EN ISO 17892-1:2014 +A1: 2022	A, C, E, G, H, J, X
	Determination of bulk density – linear measurement method	BS EN ISO 17892-2:2014	A
	Determination of bulk density – immersion in fluid method	BS EN ISO 17892-2:2014	A, J
	Determination of particle density – fluid pycnometer method	BS EN ISO 17892-3:2015	A
	Determination of particle size distribution – sieving method	BS EN ISO 17892-4:2016	A, H
	Determination of particle size distribution – hydrometer method	BS EN ISO 17892-4:2016	A
	Unconsolidated undrained triaxial test	BS EN ISO 17892-8:2018	A
	Determination of permeability using a flexible wall permeameter	BS EN ISO 17892-11:2019	A
	Determination of liquid limit by the fall cone method – four-point method	BS EN ISO 17892-12:2018+A2: 2022	A
	Determination of liquid limit by the fall cone method – one-point method	BS EN ISO 17892-12:2018+A2: 2022	A, H
	Determination of plastic limit	BS EN ISO 17892-12:2018+A2: 2022	A, H
	Determination of plasticity index and liquidity index	BS EN ISO 17892-12:2018+A2: 2022	A, H

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
STABILIZED MATERIALS for civil engineering purposes - cement-stabilized and lime-stabilized materials	In-situ density - sand replacement method (large pouring cylinder)	BS 1924-2:1990	B, X
	In-situ density - core cutter method (for unhardened fine-grained materials)	BS 1924-2:1990	B, X
	In-situ bulk density - nuclear method by direct transmission - comparative tests	BS 1924-2:1990	B, X
	In-situ bulk density - nuclear method by direct transmission - compliance tests	BS 1924-2:1990	B, X
	In-situ moisture density - nuclear method by back scatter - comparative tests	BS 1924-2:1990	B, X
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2021	A, X
WATERS - ground water, waste water and effluent	Conductivity	Documented In-House Method In-situ Works Procedures Manual Section 6 No 10	B
	Dissolved oxygen content	Documented In-House Method In-situ Works Procedures Manual Section 6 No 10	B
	pH	Documented In-House Method In-situ Works Procedures Manual Section 6 No 10	B
WATERS - ground water, waste water and effluent, cont'd	Temperature	Documented In-House Method In-situ Works Procedures Manual Section 6 No 10	B

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