

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2005</p>	<b>ACS Testing Limited</b>  <b>Issue No: 050    Issue date: 07 December 2016</b>	
	<b>Unit 14</b> Blackhill Road West Holton Heath Trading Park Poole Dorset BH16 6LE	<b>Contact: Mr S J White</b> <b>Tel: +44 (0)1202 622858</b> <b>Fax: +44 (0)1202 625045</b> <b>E-Mail: mark.williams@acstesting.co.uk</b> <b>Website: www.acstesting.co.uk</b>
Testing performed by the Organisation at the locations specified below		

ACS Testing Limited is accredited for a flexible scope that enables it to establish 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
<b>Address</b> Unit 14 Blackhill Road West Holton Heath Trading Park Poole Dorset BH16 6LE	<b>Local contact</b> Mr E Woodward	Laboratory testing  A
<b>Address</b> % Les Searle Group MOD Larkhill Shrewton Salisbury SP3 4UZ	<b>Local contact</b> Mr M Wass	Laboratory and site testing  C
<b>Address</b> % C A Blackwell (Contracts) Ltd. Hemerdon Tungsten Project Ledgate Lane Sparkwell Plymouth PL7 5BS	<b>Local contact</b> Mr R Spracklen  <b>Telephone</b> 07823 401531	Laboratory and site testing  D
<b>Address</b> % Trant Engineering Ltd. Power Station & Boiler House Mount Pleasant Airfield Falkland Islands	<b>Local contact</b> Mr A Chester	Laboratory and site testing  E



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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	<b>Local contact</b> Mr E Woodward	B



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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	Aggregate crushing value - particle size 10 mm and greater	BS 812-110:1990	A
	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
	Particle size distribution - sieving method	BS EN 933-1:2012	A, D, E, 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 933-9:2009 + A1:2013	A, X
	Assessment of fines - methylene blue value of the 0/0,125 mm fraction	BS EN 933-9:2009	A
	Classification test for the constituents of coarse recycled aggregate	BS EN 933-11:2009	A, X
Micro-Deval coefficient	BS EN 1097-1:2011	A	



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AGGREGATES (cont'd)	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2010	A
	Loose bulk density and voids	BS EN 1097-3:1998	A, X
	Compacted dry bulk density	BS EN 1097-3:1998	A, X
	Loose bulk density with damp aggregates	BS EN 1097-3:1998	A, X
	Water content	BS EN 1097-5:2008	A, D, E, X
	Particle density and water absorption - wire-basket method for aggregate particles between 31,5 mm and 63 mm	BS EN 1097-6:2000	A
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2000	A
	Particle density and water absorption - pyknometer method for aggregate particles between 0,063 mm and 4 mm	BS EN 1097-6:2000	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
	Uniformity coefficient	Specification for Highway Works, HMSO November 2007 Table 6/1, Footnote 5	A, X
BITUMINOUS MIXTURES for roads and other paved areas	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2012	A
	Particle size distribution	BS EN 12697-2:2002	A
	Maximum density - volumetric procedure	BS EN 12697-5:2009	A



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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 (cont'd)	Bulk density - dry - saturated surface dry (SSD) - sealed specimen	BS EN 12697-6:2012	A
	Air voids content	BS EN 12697-8:2003	A
	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002	A
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002	A
	Measurements of temperature - of laid materials - in a heap	BS EN 12697-13:2000	B
	Sampling from the material around the augers of the paver	BS EN 12697-27:2001	B
	Sampling of workable material in heaps	BS EN 12697-27:2001	B
	Sampling coated chippings from stockpiles	BS EN 12697-27:2001	B
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2001	A, B
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2003	A
Measurements of temperature - in a wagon	Documented In-House Method In-situ Works Procedures Manual Section 5 Number 1	B	
CONCRETE - fresh	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2009	B, E, X
	Slump	BS EN 12350-2:2009	B, E, X



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CONCRETE – fresh (cont'd)	Air content - pressure gauge method	BS EN 12350-7:2009	B, E, X
	Temperature	Documented In-House Method In-situ Works Procedures Manual Section 2 Number 3	B, E, X
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2009 BS EN 12390-2:2009	A, E, X
	Density	BS EN 12390-7:2009	A, E, X
	Cored specimens - examining and testing in compression	BS EN 12504-1:2009	A, X
GEOSYNTHETIC CLAY LINERS	Index flux using a flexible wall permeameter	ASTM D 5887-09	A
	Calculation of hydraulic conductivity using index flux test data	ASTM D 5887-09	A
NATURAL STONE	Water absorption coefficient by capillarity	BS EN 1925:1999	A
	Uniaxial compressive strength	BS EN 1926:2006	A
	Open porosity and apparent density	BS EN 1936:2006	A
	Real density - method A (pycnometer)	BS EN 1936:2006	A
	Total porosity	BS EN 1936:2006	A
	Resistance to salt crystallization	BS EN 12370:1999	A
	Frost resistance - technological test (test A)	BS EN 12371:2010	A
	Flexural strength under concentrated load	BS EN 12372:2006	A
	Flexural strength under constant moment	BS EN 13161:2008	A



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NATURAL STONE (cont'd)	Breaking load at dowel hole	BS EN 13364:2002	A
	Water absorption at atmospheric pressure	BS EN 13755:2008	A
	Abrasion resistance - method A - wide wheel abrasion test	BS EN 14157:2004	A
	Slip resistance by means of the pendulum tester	BS EN 14231:2003	A
	ROAD PAVEMENT SURFACES	Texture depth by the sand-patch method	BS 598-105:2000
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
ROCK	Water content	ISRM Suggested Method - 1977	A
	Porosity and density using saturation and buoyancy techniques	ISRM Suggested Method - 1977	A
	Uniaxial compressive strength and deformability	ISRM Suggested Method - 1979 BS EN 1997-2:2007 Annex W	A
	Point load strength	ISRM Suggested Method - 1985	A
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	A, C, D, E, X
	Saturation moisture content / intact lump dry density of chalk	BS 1377-2:1990 Specification for Highway Works, HMSO November 2005 Clause 634	A, C, X
	Liquid limit - cone penetrometer	BS 1377-2:1990	A, X
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	A, D, X



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SOILS for civil engineering purposes (cont'd)	Plastic limit	BS 1377-2:1990	A, D, X
	Plasticity index and liquidity index	BS 1377-2:1990	A, D, X
	Density - linear measurement	BS 1377-2:1990	A
	Particle density - gas jar	BS 1377-2:1990	A, C, D, X
	Particle density - small pycnometer	BS 1377-2:1990	A, X
	Particle size distribution - wet sieving	BS 1377-2:1990	A, D, X
	Particle size distribution - dry sieving	BS 1377-2:1990	A, D, X
	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	A, D, X
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	A, X
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	A, X
	MCV - natural moisture content	BS 1377-4:1990	A, X
	MCV/moisture content relation	BS 1377-4:1990	A, X
	California Bearing Ratio (CBR)	BS 1377-4:1990	A, X
	Permeability in a triaxial cell	BS 1377-6:1990	A
	Shear strength by direct shear (small shearbox apparatus)	BS 1377-7:1990	A
Shear strength by direct shear (large shearbox apparatus)	BS 1377-7:1990	A	





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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 in triaxial compression without measurement of pore pressure (definitive method)	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, C, D, E, 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, C, X
	In-situ bulk density - nuclear method - compliance tests	BS 1377-9:1990	B, D, X
	In-situ moisture density - nuclear method - comparative tests	BS 1377-9:1990	B, X
	In-situ California Bearing Ratio (CBR)	BS 1377-9:1990	B, X
	Uniformity coefficient	Specification for Highway Works, HMSO November 2007 Table 6/1, Footnote 5	A, X
	Undrained shear strength of remoulded cohesive material	Specification for Highway Works, HMSO March 1998 Clause 633	A
Effective angle of internal friction and effective cohesion of earthworks materials	Specification for Highway Works, HMSO March 1998 Clause 636	A	



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SOILS for civil engineering purposes (cont'd)	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
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
	In-situ density - core cutter method (for unhardened fine-grained materials)	BS 1924-2:1990	B
	In-situ bulk density - nuclear method by direct transmission - comparative tests	BS 1924-2:1990	B
	In-situ bulk density - nuclear method by direct transmission - compliance tests	BS 1924-2:1990	B
	In-situ moisture density - nuclear method by back scatter - comparative tests	BS 1924-2:1990	B
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	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



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WATERS - ground water, waste water and effluent (cont'd)	Temperature	Documented In-House Method In-situ Works Procedures Manual Section 6 No 10	B
END			