

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>	<h3>Construction Testing Solutions Ltd</h3> <p>Issue No: 015 Issue date: 20 September 2016</p>	
	<p>Bootham Lane Industrial Estate Bootham Lane Dunscroft Doncaster DN7 4JU</p>	<p>Contact: Mr J Hardcastle Tel: +44 (0)1302 352652 Fax: +44 (0)1302 352700 E-Mail: jh@constructiontesting.co.uk Website: www.thetestinggroup.co.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Construction Testing Solutions Ltd 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 Quality Manual Appendix IV – Flexible Scope Accreditation (Commissioning of Site Laboratories)

Locations covered by the organisation and their relevant activities

Laboratory location:

Location details	Activity	Location code
<p>Address Bootham Lane Industrial Estate Bootham Lane Dunscroft Doncaster DN7 4JU</p> <p>Local contact Mr J Hardcastle</p>	<p>Aggregates Concrete - fresh Concrete - hardened Soils Stabilised soils Unbound and hydraulically bound mixtures</p>	A

Site activities performed away from the location listed above:

Location details	Activity	Location code
<p>All locations suitable for the activities listed</p> <p>Local contact Mr J Hardcastle</p>	<p>Aggregates Concrete - fresh Soils Unbound and hydraulically bound mixtures</p>	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	Sampling - from stockpiles	BS EN 932-1:1997	B, X
	Particle size distribution - sieving method	BS EN 933-1:2012	A, X
	Flakiness index	BS EN 933-3:2012	A, X
	Classification test for the constituents of coarse recycled aggregate	BS EN 933-11:2009	A, X
	Resistance to fragmentation - Los Angeles method	BS EN 1097-2:2010	A, X
	Water content	BS EN 1097-5:2008	A, X
	Particle density and water absorption - pyknometer method for aggregates between 0.063 mm and 4 mm	BS EN 1097-6:2013	A, X
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2013	A, X
	Magnesium sulfate test	BS EN 1367-2:2009	A, X
	Uniformity coefficient	BS 6100-2.2.1:1992	A, X
CONCRETE - fresh	Sampling - composite sample - spot sample	BS EN 12350-1:2009	B, X
	Slump	BS EN 12350-2:2009	B, X
	Air content - pressure gauge method	BS EN 12350-7:2009	B, X
	Making concrete cubes	BS EN 12390-2:2009	A, B, X
	Curing concrete cubes	BS EN 12390-2:2009	B, X



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CONCRETE - hardened	Compressive strength of cubes - including curing	BS 1881-116:1983 (withdrawn) BS EN 12390-3:2009 BS 1881-111:1983 (withdrawn) BS EN 12390-2:2009	A, X A, X A, X A, X
	Density	BS 1881-114:1983 (withdrawn) BS EN 12390-7:2009	A, X A, X
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	A, X
	Liquid limit - cone penetrometer	BS 1377-2:1990	A, X
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	A, X
	Plastic limit	BS 1377-2:1990	A, X
	Plasticity index	BS 1377-2:1990	A, X
	Particle size distribution - wet sieving	BS 1377-2:1990	A, X
	Particle size distribution - dry sieving	BS 1377-2:1990	A, X
	Particle size distribution - fine grained soils (hydrometer method)	BS 1377-2:1990	A, X
	Particle density - gas jar	BS 1377-2:1990	A, X
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	A, 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	
Moisture condition value (MCV)	BS 1377-4:1990	A, X	



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SOILS for civil engineering purposes	MCV - natural moisture content	BS 1377-4:1990	A, B, X
	California Bearing Ratio (CBR)	BS 1377-4:1990	A, X
	Swelling of soaked CBR specimen	BS 1377-4:1990	A, X
	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377-7:1990	A, X
	In-situ density - sand replacement method (small pouring cylinder)	BS 1377-9:1990	B, 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 moisture density - nuclear method - comparative tests	BS 1377-9:1990	B, X
	Vertical deformation and strength characteristics by the incremental plate loading test	BS 1377-9:1990	B, X
	In-situ California Bearing Ratio (CBR)	BS 1377-9:1990	B, X
Calculation of equivalent CBR value using the plate bearing test	Design Manual for Roads and Bridges: Volume 7: Pavement Design and Maintenance - Foundations - HD 25/94	B, X	
STABILISED SOILS	CBR and swell	BS 1924-2:1990	A, X



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UNBOUND and HYDRALICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	A
	Compressive strength of hydraulically bound mixtures	BS EN 13286-41:2003	A
	Moisture condition value (MCV)	BS EN 13286-46:2003	A, B, X
	California bearing ratio, immediate bearing index and linear swelling	BS EN 13286-47:2012	A, X
	Manufacture of test specimens of hydraulically bound mixtures using vibrating hammer compaction	BS EN 13286-51:2004	A
SPECIALIST DEPARTMENT			
SOILS for civil engineering purposes	Shear strength by direct shear (large shearbox apparatus)	BS 1377-7:1990	A
	Determination of effective angle of internal friction and effective cohesion of earthworks materials (using 300 mm shearbox)	Specification for Highway Works, HMSO November 2009 Clause 636	A
CHEMISTRY DEPARTMENT			
AGGREGATES	Sample reduction with crushing to reduce the particle size	BS EN 932-2:1999	A
	Water-soluble chloride salts using the Volhard method (reference method)	BS EN 1744-1:2009 + A1:2012	A
	Water-soluble sulfates in natural and manufactured aggregates	BS EN 1744-1:2009 + A1:2012	A



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AGGREGATES	Total sulfur content by high temperature combustion (alternative method)	BS EN 1744-1:2009 + A1:2012	A	
	Acid soluble sulfates	BS EN 1744-1:2009 + A1:2012	A	
	Acid soluble sulfides	BS EN 1744-1:2009 + A1:2012	A	
	Loss on ignition	BS EN 1744-1:2009 + A1:2012	A	
	SOILS for civil engineering purposes	Mass loss on ignition	BS 1377-3:1990	A
		Organic matter content	BS 1377-3:1990	A
		Sulphate content of soil and ground water - gravimetric method	BS 1377-3:1990	A
		pH value	BS 1377-3:1990	A
		Water-soluble sulfur	TRL Report 447 Test 1	A
		Acid-soluble sulfur	TRL Report 447 Test 2	A
Total sulfur		TRL Report 447 Test 4 Procedure B using rapid high temperature combustion	A	
Water soluble sulphate		Documented In-House Method Test Procedures File Section 4 using ICP	A	
Acid soluble sulphate		Documented In-House Method Test Procedures File Section 6 using ICP	A	
END				