

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>4161</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Construction Testing Solutions Ltd Trading as Construction Testing Solutions</p> <p>Issue No: 037 Issue date: 14 September 2020</p>	
	<p>Bootham Lane Industrial Estate Bootham Lane Dunscroft Doncaster DN7 4JU</p>	<p>Contact: Mr K Tonge Tel: +44 (0)1302 352652 Fax: +44 (0)1302 352700 E-Mail: kt@constructiontesting.co.uk Website: www.constructiontesting.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 Doncaster Bootham Lane Industrial Estate Bootham Lane Dunscroft Doncaster DN7 4JU</p>	<p>Local contact Mr K Tonge</p>	<p>Aggregates Bituminous Mixtures Concrete - fresh Concrete - hardened Soils Stabilised soils Unbound and hydraulically bound mixtures</p>	A
<p>Warrington Unit 19 Melford Court Warrington Cheshire WA1 4RZ</p>	<p>Site Contact: Mr P Haddock Tel: +44 (0)343 227 1691 Tel: +44 (0)7376 005 829 E-Mail: ph@constructiontesting.co.uk</p>	<p>Bituminous Mixtures Concrete - hardened Soils</p>	C
<p>Newark Quarry Farm View Bowbridge Lane Newark Notts NG24 3BZ</p>	<p>Site Contact: Ms C Reynolds Tel: +44 (0)1636 705 100 Tel: +44 (0)7904 651 765 E-Mail: claire.reynolds@constructiontesting.co.uk</p>	<p>Aggregates Bituminous Mixtures Concrete - fresh Concrete - hardened Soils</p>	D



4161

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Location details	Activity	Location code
<p>Address East Kilbride Kelvin Industrial Estate East Kilbride G75 0YL</p> <p>Local Contact Site Contact: Mr S Roseweir Tel: +44 (0)1355 574732 E-Mail: stewart.roseweir@constructiontesting.co.uk</p>	Aggregates Bituminous Mixtures, Concrete - hardened Soils	E
<p>Chesterfield Unit 1, M1 Commerce Park, Markham Lane, Duckmanton, Chesterfield S44 5HS</p> <p>Site Contact: Mr S Grayson Tel: +44 (0)1246 828318 E-Mail: sg@constructiontesting.co.uk</p> <p>Site Contact: Mr C Marshall Tel: +44 + (0)1302 352652 E-Mail: cm2@constructiontesting.co.uk</p>	Concrete – Hardened, Structures	G
<p>Wilton Wilton International, Redcar, Middlesborough, TS10 4RQ</p> <p>Site Contact: Mr A Tonge Tel: +44 (0)7854 191665 E-Mail: at@constructiontesting.co.uk</p>	Aggregates Concrete - fresh Concrete - hardened	H
<p>Wolvey Highway House, Lutterworth Road, Wolvey, Leicestershire LE10 3HW</p> <p>Site Contact: Mr L McLundie Tel: +44 (0)1455 220784 Tel: +44 (0)7780 468 070 E-mail: lorne.mclundie@ constructiontesting.co.uk</p>	Soils	J

Laboratory locations currently operation under Flexible Scope:

Location details	Activity	Location code
<p>Woodsmith Woodsmith Mine, Sneaton, Near Whitby, North Yorkshire, YO22 5JB</p> <p>Site Contact: Mr A Tonge Tel: +44 (0)7854 191665 E-Mail: at@constructiontesting.co.uk</p>	Concrete - hardened	F1



4161

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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</p> <p>Doncaster Office Bootham Lane Industrial Estate Bootham Lane Dunscroft Doncaster DN7 4JU</p> <p>Warrington Office Unit 19 Melford Court Warrington Cheshire WA1 4RZ</p> <p>Newark Office Quarry Farm View Bowbridge Lane Newark Notts NG24 3BZ</p> <p>East Kilbride Office Kelvin Industrial Estate East Kilbride G75 0YL</p> <p>Chesterfield Office Unit 1, M1 Commerce Park, Markham Lane, Duckmanton, Chesterfield S44 5HS</p> <p>Wolvey Highway House, Lutterworth Road, Wolvey, Leicestershire LE10 3HW</p>	<p>Aggregates Bituminous Mixtures Concrete - fresh Concrete - hardened Soils Road Pavement Surfaces Unbound and hydraulically bound mixtures</p>	<p>B</p>



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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 10mm and greater	BS 812-110:1990	D
	Ten per cent fines value - dry - particle size 10mm and greater	BS 812-111:1990	D
	Ten per cent fines value - soaked - particle size 10mm and greater	BS 812-111:1990	D
	Sampling - from stockpiles	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
	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, D X
	Water content	BS EN 1097-5:2008	A, D, E, H, 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,D,E, X	



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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	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2012	C
	Soluble binder content by direct using bottle rotation machine, bucket centrifuge and volume calculation'	BS EN 12697-1:2012	D
	Particle size distribution	BS EN 12697-2:2015	C, D
	Maximum density - volumetric procedure	BS EN 12697-5:2018	C, E
	Bulk density - dry - sealed specimen	BS EN 12697-6:2012	C, D, E
	Bulk density - saturated surface - dry (SSD)	BS EN 12697-6:2012	C, E
	Air voids content (V_m)	BS EN 12697-8:2018	C, D, E
	Temperature measurement - laid material - in a heap	BS EN 12697-13:2000	B
	Temperature measurement - in the hopper	BS598-109:1990 (withdrawn)	B
	Sampling from - around augers of the paver - workable materials in heaps	BS EN 12697-27:2017	B
Preparation of sample for determination of Binder Content, Water Content & Grsading	BS EN 12697-28:2001	D	
Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2019	C	



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Determination of the thickness of a bituminous pavement - destructive method	BS EN 12697-36:2003	A, B
	Compacted Density - nuclear density method	Documented In-House Method	B
CONCRETE - fresh	Sampling - composite sample - spot sample	BS EN 12350-1:2019	B, X
	Slump	BS EN 12350-2:2019	B, X
	Air content - pressure gauge method	BS EN 12350-7:2019	B, X
	Making concrete cubes	BS EN 12390-2:2019	A, B, X
	Curing concrete cubes	BS EN 12390-2:2019	B, X
	Making concrete cylinders	BS EN 12390-2:2019	B
	Making concrete Prism	BS EN 12390-2:2019	B
CONCRETE - fresh reinforced	Fibre content - Steel fibres	BS EN 14721:2005 + A1 2007	B
	Fibre content - Steel fibres	Documented In House Method	B
	Fibre content - Polymer fibres	Documented In House Method	B
CONCRETE - hardened	Compressive strength of cubes	BS EN 12390-3:2019	A, C, D, E, H, X, F1
	Curing	BS EN 12390-2:2019	A, C, D, E, H, X, F1
	Density	BS EN 12390-7:2019	A, C, D, E, H, X, F1



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CONCRETE – hardened (cont'd)	Cored specimens - testing in compression	BS EN 12504-1: 2009	A, D
	Sampling - by coring	BS EN 12504-1: 2009	B
	Drilling for dust samples	Building Research Establishment Information Paper 21/86	B
	Measurement of carbonation depth	BS EN 14630: 2006 BRE Digest 405	B
Road Pavement Surfaces	Texture Depth by the sand-patch method	BS 598-105: 2000	B
	Sampling from finished material – core cutting method	BS EN 12697-27:2017	B
	Surface macrotexture depth by volumetric patch technique	BS EN 13036-1:2010	B
	Surface regularity by rolling straight-edge	TRRL Supplementary Report 290:1977	B
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014	D ,G
	Bulk Density - by linear measurement	BS EN ISO 17892-2:2014	G
	Liquid Limit - by Fall Cone	BS EN ISO 17892-12:2018	G
	Plastic Limit	BS EN ISO 17892-12:2018	G
	Plasticity Index	BS EN ISO 17892-12:2018	G



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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	Moisture content - oven drying method	BS 1377-2:1990	A, C, D, E, G, J, X
	Liquid limit - cone penetrometer	BS 1377-2:1990	A, X
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	A, D, X
	Plastic limit	BS 1377-2:1990	A, D, X
	Plasticity index	BS 1377-2:1990	A, D, X
	Particle size distribution - wet sieving	BS 1377-2:1990	A, D, E, X
	Particle size distribution - dry sieving	BS 1377-2:1990	A, D, E, X
	Particle size distribution - fine grained soils (hydrometer method)	BS 1377-2:1990	A, D, X
	Particle density - gas jar	BS 1377-2:1990	A, D, 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, D, X
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	A, D, X
	Moisture condition value (MCV)	BS 1377-4:1990	A, D, X
	MCV - natural moisture content	BS 1377-4:1990	A, D, B, X
California Bearing Ratio (CBR)	BS 1377-4:1990	A, D, X	
Swelling of soaked CBR specimen	BS 1377-4:1990	A, D, X	



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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)	One dimensional swell / strain	BS 1377-5:1990	A
	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377-7:1990	A, D, 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
Determination of the state of desiccation in clay soils	Building Research Establishment Information Paper IP4/93	A	
STABILISED SOILS	CBR and swell	BS 1924-2: 2018	A, D, 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, D, 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	G
	Shear strength by direct shear (large shearbox apparatus) (Unsubmerged)	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	G
	Determination of effective angle of internal friction and effective cohesion of earthworks materials (using 60 mm shearbox)	Specification for Highway Works, HMSO November 2009 Clause 636	G



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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	Determination of effective angle of internal friction and effective cohesion of earthworks 6N, 6P,6I and 6J materials (using 300 mm shearbox)	Specification for Highway Works, HMSO November 2009 Clause 636	A,D
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Incremental loading oedometer test	BS EN ISO 17892-5:2017	G
	Consolidated triaxial compression tests on water saturated soils - by Isotropic Consolidation (Single stage test)	BS EN ISO 17892-9:2018	G
	Consolidated triaxial compression tests on water saturated soils - by Isotropic Consolidation (Multistage test)	Documented In House Method 84	G
	Direct shear tests using 300mm Shearbox	BS EN ISO 17892-10:2018	G
	Direct shear tests using 60mm Shearbox	BS EN ISO 17892-10:2018	G
Permeability tests -using a flexible wall permeameter	BS EN ISO 17892-11:2019	G	



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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 Clause 7	A
	Water-soluble sulfates in natural and manufactured aggregates	BS EN 1744-1:2009 + A1:2012 Clause 10.1	A
	Total sulfur content by high temperature combustion (alternative method)	BS EN 1744-1:2009 + A1:2012 Clause 11.2	A
AGGREGATES (cont'd)	Acid soluble sulfates	BS EN 1744-1:2009 + A1:2012 Clause 12	A
	Acid soluble sulfides	BS EN 1744-1:2009 + A1:2012 Clause 13	A
	Loss on ignition	BS EN 1744-1:2009 + A1:2012 Clause 17	A
SOILS for civil engineering purposes	Mass loss on ignition	BS 1377-3: 2018 Clause 6	A
	Organic matter content	BS 1377-3: 2018 Clause 4	A
	pH value	BS 1377-3: 2018 Clause 12	A
	Water-soluble sulfur (sulfate calculated) (ICPOES)	BS 1377-3: 2018 Clause 7.5	A
	Acid-soluble sulfur (sulfate calculated) (ICPOES)	BS 1377-3: 2018 Clause 7.5	A



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SOILS for civil engineering purposes (cont'd)	Total sulfur	BS 1377-3: 2018 Clause 7.10	A
SOIL	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
CONCRETE STRUCTURES DEPARTMENT			
CONCRETE - reinforced	Half-cell potential of uncoated reinforcing steel in concrete	ASTM C876-15	B
	Visual and hammer survey	Documented In House Method No. 64	B
	Resistivity of Concrete	Documented In House Method No. 66	B
	Location of reinforcement	BS 1881: Part 204: 1988	B
END			