

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 4161 Accredited to ISO/IEC 17025:2017	Construction Testing Solutions Ltd	
	Issue No: 057 Issue date: 04 March 2024	
	Bootham Lane Industrial Estate Bootham Lane Dunscroft Doncaster DN7 4JU	Contact: Ms C Reynolds Tel: +44 (0)1302 352652 Fax: +44 (0)1302 352700 E-Mail: claire.reynolds@constructiontesting.co.uk Website: www.constructiontesting.co.uk
Testing performed by the Organisation at the locations specified below		

Construction Testing Solutions Limited, is accredited for flexible scopes under the Quality Procedure FXS issue 3 Rev that enable it to: -

1. Establish site laboratories to conduct the construction materials testing and sampling activities under the Header Flexible scope for establishing Site Laboratories.
2. Transfer currently accredited test methods between the accredited locations listed on this schedule.

Information about flexible scopes is available in UKAS document GEN4: October 2019

Locations covered by the organisation and their relevant activities

Laboratory location:

Location details		Activity
Doncaster Bootham Lane Industrial Estate Bootham Lane Dunscroft Doncaster DN7 4JU	Site Contact: Mr Richard Ward Tel: +44 (0)1302 352652 Fax: +44 (0)1302 352700 E-Mail: richard.ward@constructiontesting.co.uk	Aggregates Bituminous Mixtures Concrete – fresh & hardened Reinforced & structural Soil , Stabilised soils Unbound and hydraulically bound mixtures
Chesterfield Unit 1, M1 Commerce Park, Markham Lane Duckmanton Chesterfield S44 5HS	Site Contact: Mr Acxit Babu Tel: (+44) 7872 147843 Email: acxit.babu@constructiontesting.co.uk	Bituminous Mixtures Concrete – Hardened Structures
Wilton Wilton International Redcar Middlesbrough TS10 4RQ	Site Contact: Mr Matt Mills Tel: +44 (0)7904 170720 E-Mail: matt.mills@constructiontesting.co.uk	Aggregates Concrete – fresh & hardened



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Location details		Activity
Woodsmith Woodsmith Mine Sneaton Near Whitby North Yorkshire YO22 5JB	Site Contact: Mr Matt Mills Tel: +44 (0)7904 170720 E-Mail: matt.mills@constructiontesting.co.uk	Concrete - hardened Soils
Leicester Old Mill Lane An Annex of 7-11 Harding Street Leicester LE1 4DH	Chemistry Contact: David Ratcliffe Tel: (+44) 7920 413664 Email: david.ratcliffe@constructiontesting.co.uk	Testing of aggregates, concrete and mortar and soils for civil engineering purposes. Environmental analysis and chemical testing including the Environment Agency MCERTS performance standard for soils. Waters Identification of asbestos in bulk materials and soils Health and Hygiene Asbestos – All Support Functions
Leicester Unit 6 Oak Spinney Park Ratby Lane Leicester LE3 3AW	Structures & Pavements Contact: Acxit Babu Tel: (+44) 7872 147843 Email: acxit.babu@constructiontesting.co.uk	Concrete –hardened
Bristol 1280 Aztec West Business Park Bristol BS32 4SG	Local Contact: Mr Francois Taljaard Tel: +44 (0)1302 352652 Email: francois.taljaard@constructiontesting.co.uk	Concrete – fresh & hardened Soils Unbound and hydraulically bound mixtures
Harrietsham Northdown House Ashford Road Harrietsham Kent ME17 1QW	Site Contact: Mr Matt Butt Tel: +44 (0)1622 858545 Email: matt.butt@constructiontesting.co.uk Laboratory Contact Mr Chris Davidson Tel: +44 (0)1622 858545 E-mail: chris.davidson@constructiontesting.co.uk	Aggregates Bituminous materials Concrete - fresh & hardened Soils



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Location details		Activity
Heathrow Unit 12 Britannia Industrial Estate Poyle Road Colnbrook SL3 0BH	Local contact: Mr Matt Mills Tel: +44 (0)2080 019296 Email: matt.mills@constructiontesting.co.uk	Aggregates Bituminous materials Concrete - fresh & hardened Soils
Billericay Lawness Barns Mountrussing Road Billericay CM12 0TS	Local contact: Mr Mark Duffield (Site Investigation Section) Tel: +44 (0)1277 655377 Email: mark.duffield@constructiontesting.co.uk Mr Chris Davidson (Materials Section) Tel: +44 (0)2080 019296 Email: chris.davidson@constructiontesting.co.uk	Soils Soils Aggregates
Heathrow Airport C/O Ferrovial Heathrow Airport (Airside) Longford Hounslow TW6 1LS	Local contact: Mr Matt Mills Tel: +44 (0)2080 019296 Email: Matt.Mills@constructiontesting.co.uk	Concrete - fresh & hardened
Crawley Dunton Environmental Ltd Site Office Kilnwood Vale Crawley West Sussex RH12 4SE	Local contact: Mr Chris Davidson Tel: +44 (0)1622 858545 Email: chris.davidson@constructiontesting.co.uk	Soil
Ilse of Grain c/p Pacadar Uk Ltd Isle of Grain (Thamesport) Kent ME30EP	Local contact: Mr Chris Davidson Tel: +44 (0)1622 858545 Email: chris.davidson@constructiontesting.co.uk	Concrete – fresh & hardened



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Site activities performed away from the location listed above:

Location details		Activity
All locations suitable for the activities listed	Local contact Details Listed Above	Aggregates Bituminous Mixtures Concrete – fresh, hardened, Reinforced,& Structures Piling Road Pavement Surfaces Soils Unbound and hydraulically bound mixtures Concrete – Hardened, Structures

Current locations covered by the scope of accreditation for Flexible scope:

Location details		Activity
Hartlepool C/O STRABAG UK Limited, Plot 2, Greenland Road, Hartlepool, TS24 ORQ	Local Contact: Mr Matt Mills Tel: +44 (0)7904 170720 E-Mail: matt.mills@constructiontesting.co.uk	Aggregates Concrete - fresh & hardened Annotated as: flex 3

Testing covered by the scope of accreditation for Flexible scope:

Location details		Activity
Leicester Old Mill Lane An Annex of 7-11 Harding Street Leicester LE1 4DH	Chemistry Contact: David Ratcliffe Tel: (+44) 7920 413664 Email: david.ratcliffe@constructiontesting.co.uk	Testing of aggregates, soils for civil engineering purposes. Annotated as: Flex 2



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<u>Doncaster Laboratory</u>			
AGGREGATES	Particle size distribution - sieving method	BS EN 933-1:2012	Lab
	Flakiness index	BS EN 933-3:2012	Lab
	Classification test for the constituents of coarse recycled aggregate	BS EN 933-11:2009	Lab
	Resistance to fragmentation - Los Angeles method	BS EN 1097-2:2020	Lab
	Resistance to fragmentation of rail ballast - Los Angeles method	BS EN 1097-2:2020 Annex A.2	
	Water content	BS EN 1097-5:2008	Lab
	Particle density and water absorption - pycnometer method for aggregates between 0.063 mm and 4 mm	BS EN 1097-6:2022	Lab
	Particle density and water absorption - pycnometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2022	Lab
	Magnesium sulfate test	BS EN 1367-2:2009	Lab
	Uniformity coefficient	BSEN 14688-2: 2018	Lab
CONCRETE -Fresh	Determination of the thickness of a bituminous pavement - destructive method	BS EN 12697-36:2022	Lab
	Making concrete cubes	BS EN 12390-2:2019	Lab



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CONCRETE - hardened	Compressive strength of cubes	BS EN 12390-3:2019	Lab
	Curing	BS EN 12390-2:2019	Lab
	Dimensions	BS EN 12390-1:2021	Lab
	Density	BS EN 12390-7:2019	Lab
	Cored specimens - testing in compression	BS EN 12504-1: 2019	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Lab
	Plastic limit	BS 1377-2:1990	Lab
	Plasticity index	BS 1377-2:1990	Lab
	Particle size distribution - wet sieving	BS 1377-2:1990	Lab
	Particle size distribution - dry sieving	BS 1377-2:1990	Lab
	Particle size distribution - fine grained soils (hydrometer method)	BS 1377-2:1990	Lab
	Particle density - gas jar	BS 1377-2:1990	Lab
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	Lab
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	Lab



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SOILS for civil engineering purposes (cont'd)	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	Lab
	Moisture condition value (MCV)	BS 1377-4:1990	Lab
	MCV - natural moisture content	BS 1377-4:1990	Lab
	California Bearing Ratio (CBR)	BS 1377-4:1990	Lab
	Swelling of soaked CBR specimen	BS 1377-4:1990	Lab
	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377-7:1990	Lab
	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2021	Lab
	Compressive strength of hydraulically bound mixtures	BS EN 13286-41:2021	Lab
	Moisture condition value (MCV)	BS EN 13286-46:2003	Lab
	California bearing ratio, immediate bearing index and linear swelling	BS EN 13286-47:2021	Lab
UNBOUND and HYDRALICALLY BOUND MIXTURES	Manufacture of test specimens of hydraulically bound mixtures using vibrating hammer compaction	BS EN 13286-51:2004	Lab
End of Doncaster Laboratory			



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<u>Chesterfield Laboratory</u>			
BITUMINOUS MIXTURES for roads and other paved areas	Determination of the thickness of a bituminous pavement - destructive method	BS EN 12697-36:2022	Lab
REINSTATEMENT OF OPENINGS IN HIGHWAYS	Measurement of layer thickness and visual examination of bituminous core samples	Documented In-House Method TP 114:Issue 1	Lab
End of Chesterfield Laboratory			



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<u>Leicester Laboratory</u>			
ASBESTOS in BULK MATERIALS including materials and products suspected of containing asbestos	<u>Health and Hygiene</u> Identification of: Amosite Chrysotile Crocidolite Fibrous actinolite Fibrous anthophyllite Fibrous tremolite	Health and Safety Executive - Asbestos: The Analysts' Guide (HSG 248) – 2021 Documented In-House Method MS-AS-Asbestos using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248	Lab
ASBESTOS IN SOILS - The Identification of asbestos fibres in bulk samples of soil, specifically: <i>Soil</i> <i>Sediment</i> <i>Slurry</i> <i>Ballast</i> <i>Aggregates</i>	Identification of: Amosite Chrysotile Crocidolite Fibrous actinolite Fibrous anthophyllite Fibrous tremolite	Documented In-House Method MS-AS-Asbestos using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248	Lab
ASBESTOS IN SOILS - The Identification and quantification of asbestos fibres in bulk samples of soil, specifically: <i>Soil</i> <i>Ballast</i> <i>Aggregates</i>	Identification and Quantification of Asbestos content of: Amosite Chrysotile Crocidolite Fibrous actinolite Fibrous anthophyllite Fibrous tremolite	Documented In-House Method MS-AS-Asbestos for identification using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248. Documented In-House Method MS-AS-Asbestos for quantification of asbestos.	Lab



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS	<u>Chemical Tests</u> <u>Total Petroleum Hydrocarbons (TPH) >C8-C40</u> Hydrocarbon banding including: GRO >C8 – C10 DRO >C10 – C12 DRO >C12 – C16 DRO >C16 – C21 MRO >C21 – C35 MRO >C35 – C40 Total DRO >C10 – C21 Total MRO >C21 – C40 Total TPH >C8 – C40 Total WAC TPH >C10 – C40	Documented In-House Method MS-CL-TPH (GC-FID) using GC-FID	Lab
	<u>Polynuclear Aromatic Hydrocarbons (PAH)</u> Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(ghi)perylene Total PAHs (summation of above 16 compounds)	Documented In-House Method MS-CL-PAH (As Received) using GC-MS	Lab



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	<u>Chemical Tests (cont'd)</u> <u>Volatile Organic Compounds (VOC)</u> Benzene Toluene Ethyl benzene o-xylene m-xylene p-xylene MTBE Total m/p-xylene Total xylenes (total m, p & o) Total BTEX compounds (summation of Benzene, Toluene, Ethylbenzene, m, p & o-xylene) Vinyl Chloride Chloroethane Trichlorofluoromethane 1,1-Dichloroethylene trans-1,2, -dichloroethylene 1,1-Dichloroethane 2,2-Dichloropropane cis--1,2, -dichloroethylene Bromochloromethane Chloroform 1,1,1-Trichloroethane 1,1-Dichloropropene Carbon Tetrachloride 1,2-dichloroethane Trichloroethylene 1,2-Dichloropropane Dibromomethane Bromodichloromethane cis-1,2-dichloropropylene trans-1,3-dichloropropylene 1,1,2-Trichloroethane 1,3-Dichloropropane Tetrachloroethylene Chlorodibromomethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-tetrachloroethane	Documented In-House Method MS-CL-VOC & MBTEX using headspace GC-MS	Lab



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SOILS (cont'd)	<u>Chemical Tests (cont'd)</u>		
	<u>Volatile Organic Compounds (VOC) (cont'd)</u> Isopropylbenzene Bromoform 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 2-chlorotoluene 4-chlorotoluene 1,2-Dichlorobenzene Dichlorodifluoromethane Chloromethane Styrene 1,3,5-Trimethylbenzene tert-butylbenzene 1,2,4-trimethylbenzene sec-Butylbenzene 4-Isopropyltoluene(P-Cymene) n-Butylbenzene	Documented In-House Method MS-CL-VOC & MBTEX using headspace GC-MS	Lab
	<u>Volatile Organic Compounds (VOC)</u> >C5-C10 Benzene Toluene Ethyl Benzene o-Xylene m&p-Xylene Total BTEX and MTBE Hydrocarbon banding including: ALI >C5-C6 ALI >C6-C8 ALI >C8-C10 ARO >C5-C7 ARO >C7-C8 ARO >C8-C10	Documented In-House Method MS-CL-VPH using headspace GC-MS	Lab



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Soils (cont'd)	<u>Chemical Tests</u> (cont'd)		
	<u>Metals</u> (for sand, loam and clay types) Arsenic Barium Beryllium Cadmium Chromium Copper Lead Manganese Mercury Nickel Vanadium Zinc	Documented In-House Method MS-CL-ICP-Metals via aqua regia extraction and ICP-OES determination	Lab
	Total Monohydric Phenols	Documented In-House Method MS-CL-Phenols by Skalar	Lab
	<u>Speciated Phenols</u> - Phenol - Cresols - Xylenol - Trimethyl phenol - Total phenols (sum of individual groups)	Documented In-House Method MS-CL-Phenols by HPLC	Lab
	Total Organic Carbon	Documented In-House Method MS-CL-TOC Eltra using a TOC analyser	Lab
	Soil Organic Matter	By calculation from Total Organic Carbon using a factor of 0.58	Lab
	Fraction Organic Carbon	By calculation from Total Organic Carbon	Lab
	Total Monohydric Phenols	Documented In-House Method MS-CL-Phenols by Skalar to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil	Lab



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Soils (cont'd)	<u>Chemical Tests (cont'd)</u>		
	Speciated Phenols - Phenol - Cresols - Xylenols	Documented In-House Method MS-CL-Phenols by HPLC to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil	Lab
	<u>Total Petroleum Hydrocarbons (TPH) >C8-C40</u> Hydrocarbon banding including: GRO >C8 – C10 DRO >C10 – C12 DRO >C12 – C16 DRO >C16 – C21 MRO >C21 – C35 MRO >C35 – C40 Total DRO >C10 – C21 Total MRO >C21 – C40 Total TPH >C8 – C40 Total WAC TPH >C10 – C40	Documented In-House Method MS-CL-TPH (GC-FID) using GC-FID to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil	Lab
	<u>Polynuclear Aromatic Hydrocarbons (PAH)</u> Naphthalene Acenaphthene Fluorene Phenanthrene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(ghi)perylene	Documented In-House Method MS-CL-PAH (As Received) using GC-MS to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil	Lab



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	<u>Chemical Tests (cont'd)</u> <u>Volatile Organic Compounds (VOC)</u> Benzene Toluene Ethyl benzene o-xylene m-xylene p-xylene MTBE Total m/p-xylene Total xylenes (total m, p & o) Total BTEX compounds (summation of Benzene, Toluene, Ethylbenzene, m, p & o-xylene) Vinyl Chloride Chloroethane Trichlorofluoromethane 1,1-Dichloroethylene trans-1,2, -dichloroethylene 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2, -dichloroethylene Bromochloromethane Chloroform 1,1,1-Trichloroethane 1,1-Dichloropropene Carbon Tetrachloride 1,2-dichloroethane Trichloroethylene 1,2-Dichloropropane Dibromomethane Bromodichloromethane cis-1,2-dichloropropylene trans-1,3-dichloropropylene 1,1,2-Trichloroethane 1,3-Dichloropropane Tetrachloroethylene Chlorodibromomethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-tetrachloroethane Isopropylbenzene Bromoform 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane	Documented In-House Method MS-CL-VOC & MBTEX using headspace GC-MS to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil	Lab



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (sand, loam & clay types)	<u>Metals</u> (for sand, loam and clay types) Arsenic Barium Beryllium Cadmium Copper Lead Manganese Nickel Zinc	Documented In-House Method MS-CL-ICP Metals via aqua regia extraction and ICP-OES determination to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil	Lab
	pH	Documented In-House Method MS-CL-pH in Soils using the Jenway 3300 and Fisher Accumet pH instrumentation systems to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil	Lab
	Total Organic Carbon (TOC)	Documented In-House Method MS-CL-TOC Eltra in soil using a TOC analyser to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil	Lab
	Total cyanide	Documented In-House Method MS-CL-Cyanide by Skalar in soil to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil	Lab



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SOILS (sand, loam & clay types) (cont'd)	<u>Volatile Organic Compounds (VOC)</u> >C5-C10 Benzene Toluene Ethyl Benzene o-Xylene m&p-Xylene Total BTEX and MTBE Hydrocarbon banding including: ALI >C5-C6 ALI >C6-C8 ALI >C8-C10 ARO >C5-C7 ARO >C7-C8 ARO >C8-C10	Documented In-House Method MS-CL-VPH using headspace GC-MS to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical	Lab
Waters Surface and groundwater	pH	Documented In-House Method MS-CL-pH	Lab
	Electrical Conductivity	Documented In-House Method MS-CL-Conductivity	Lab
	Dissolved Organic Carbon (DOC)	Documented In-House Method MS-CL-DOC	Lab



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AGGREGATES	Water-soluble chloride salts (reference method)	EN 1744-1:2009 + A1:2012	Lab
	Water-soluble sulfates	EN 1744-1:2009 + A1:2012	Lab
	Total sulfur content	EN 1744-1:2009 + A1:2012	Lab
	Total Sulphur Content	EN BS 1744-1:2009 + A1:2012 Clause 11.2; TS EN 1744 and Eltra CS-800 Carbon/Sulphur Analyser	Lab
	Acid Soluble Sulfate	EN 1744-1:2009 + A1:2012	Lab
CONCRETE - hardened	Cement content - insoluble residue; - soluble silica (ICP-OES); - calcium oxide (ICP-OES); - sodium and potassium oxide (alkalis)	BS 1881:Part 124:2015	Lab
	Chloride content by Aquakem discrete selective photometric analyser	Documented In-House Method ENV0901 MS-Chloride in Hardened Concrete by Aquakem Discrete Analyser with extraction to BS 1881:Part 124:2015	Lab
	Sulphate content	Documented In-House Method MS-Sulphate in hardened concrete by ICP	Lab
	Carbonation	BS EN 14630:2006	Lab
	Presence of High Alumina Cement by rapid chemical method	BRE Information Sheet IS 15/74	Lab
	Capillary porosity	BS 1881:Part 124:2015	Lab
	Original water/cement ratio	BS 1881:Part 124:2015	Lab



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MORTARS, RENDERERS, SCREEDS and PLASTERS	Chemical analysis and aggregate grading - freshly mixed and hardened mortars, screeds and plasters - insoluble residue; - soluble silica (Gravimetric); - calcium oxide (Gravimetric); - alkalis	BS 4551:2005 + A2:2013	Lab
GROUT, MORTAR and CONCRETE	Moisture content	Documented In-House Method MS - Moisture content of grout, mortar and concrete	Lab
SOILS and AGGREGATES for civil engineering purposes	Water soluble sulphur	TRL 447: 2005: Test 1	Lab
	Acid soluble sulphur	TRL 447: 2005: Test 2	Lab
	Total sulphur	TRL 447: 2005: Test 4 A using ICP-OES	Lab
	Total Sulphur Content	TRL447:2005 Test 4; TS TRL447 and Eltra CS-800 Carbon/Sulphur Analyser	Lab
	Oxidisable Sulphate - by calculation	TRL 447: 2005: Test 2 & 4	Lab
SOILS for civil engineering purposes	Total potential sulphate	TRL 447: 2005: Test 4 calculation	Lab
	Water-soluble sulfur (sulfate calculated) (ICPOES)	BS 1377-3: 2018 + A1:2021 Clause 7.5	Flex 1
	Organic matter content	BS 1377:Part 3: 2018	Lab
	Loss on Ignition	BS 1377:Part 3: 2018	
	Sulphate content of soil and ground water - gravimetric method	BS 1377:Part 3: 2018	
	pH value	BS 1377:Part 3: 2018	Lab



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SOILS for civil engineering purposes (cont'd)	Total Sulphur Content	BS1377-3:2018 Clause 7.10 and TS BS 1377 and Eltra CS-800 Carbon/Sulphur Analyser	Lab
End of Leicester Laboratory			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<u>Bristol Laboratory</u>			
CONCRETE - fresh	Curing	BS EN 12390-2: 2019	Lab
CONCRETE - Hardened	Dimensions and shape	BS EN 12390-1: 2019	Lab
	Curing	BS EN 12390-2: 2019	Lab
	Compressive Strength	BS EN 12390-3: 2019	Lab
	Density	BS EN 12390-7: 2019	Lab
	Compressive strength	BS EN 13286-41: 2021	Lab
UNBOUND and HYDRALICALLY BOUND MIXTURES			
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
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	Lab
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2020	Lab
	Particle size distribution	BS EN 12697-2:2019+A1:2019	Lab
End of Bristol Laboratory			



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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
<u>Harrietsham Laboratory</u>			
AGGREGATES	Methods of reducing laboratory samples - using a riffle box - reduction by quartering - to a test portion of a specified mass within a small tolerance	BS EN 932-2:1999	Lab
	Particle size distribution - sieving method	BS EN 933-1:2012	Lab
	Flakiness index	BS EN 933-3:2012	Lab
	Shape index	BS EN 933-4:2008	Lab
	Percentage of crushed and broken surfaces in coarse aggregate particles	BS EN 933-5: 1998	Lab
	Constituents of coarse recycled aggregate - Test for geometrical properties of aggregates.	BS EN 933-11:2009	Lab
	Micro-Deval coefficient	BS EN 1097-1:2011	Lab
	Micro-Deval coefficient of aggregates for railway ballast - modified method	BS EN 1097-1:2011 Annex A	Lab
	Resistance to fragmentation of coarse aggregate - Los Angeles method	BS EN 1097-2:2020	Lab
	Resistance to fragmentation of aggregates for railway ballast by the Los Angeles test method	BS EN 1097-2:2020 Annex A	Lab



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES (cont'd)	Loose bulk density and voids	BS EN 1097-3:1998	Lab
	Water content - drying in a ventilated oven	BS EN 1097-5:2008	Lab
	Particle density and water absorption - wire basket method for aggregate particles between 31.5 and 63 mm	BS EN 1097-6:2022	Lab
	Particle density and water absorption - pycnometer method for aggregate particles between 4 mm and 31.5 mm	BS EN 1097-6:2022	Lab
	Particle density and water absorption - pycnometer method for aggregate particles between 0.063 mm and 4 mm	BS EN 1097-6:2022	Lab
	Uniformity coefficient	BS EN 14688-2: 2018	Lab



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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 12697-1:2020	Lab
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2020	Lab
	Particle size distribution	BS EN 12697-2:2019+A1:2019	Lab
	Maximum density - volumetric procedure	BS EN 12697-5:2018	Lab
	Bulk density - saturated surface dry (SSD) - sealed specimen	BS EN 12697-6:2020	Lab
	Air voids content	BS EN 12697-8:2018	Lab
	Preparation of samples for the determining binder content, water content and grading	BS EN 12697-28:2020	Lab
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2019	Lab
	Determination of the thickness of a bituminous pavement	BS EN 12697-36 :2022	Lab
	Core Logging	Documented In-House Method B14 issue 2	Lab



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE – fresh	Density	BS EN 12350-6: 2019	Lab
	Air Content -Pressure method	BS EN 12350-7:2019	Lab
	Making test cubes and curing	BS EN 12390-2:2019	Lab
	Making test cylinders and curing	BS EN 12390-2:2019	Lab
	Method for Making Test Beams from Fresh Concrete	BS EN 12390: Pt 2:2019 & BS EN 14651:2005 + A1:2007	Lab
	Fibre Content	BS EN 14488-7:2006	Lab
CONCRETE - hardened	Compressive strength of cubes	BS EN 12390-3:2019	Lab
	Curing	BS EN 12390-2:2019	Lab
	Dimensions	BS EN 12390-1:2021	Lab
	Cored Specimens - examining and testing in compression	BS EN 12504-1:2019	Lab
	Density	BS EN 12390-7:2019	Lab
	Flexural strength	BS EN 12390-5:2019	Lab
	Tensile splitting strength	BS EN 12390-6:2009	Lab
	Fibre Content	BS EN 14488-7:2006	Lab
	Skid resistance value	BS EN 16165:2021	Lab
PAVED SURFACES			
ROAD AND AIRFIELD SURFACE CHARACTERISTICS	Slip/Skid resistance of a surface - The pendulum test	BS EN 13036-4:2011	Lab



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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	Lab
	Saturation moisture content of chalk	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer (definitive method)	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Lab
	Plastic limit	BS 1377-2:1990	Lab
	Plasticity index and liquidity index	BS 1377-2:1990	Lab
	Plasticity index	BS 1377-2:1990	Lab
	Particle size distribution - wet sieving	BS 1377-2:1990	Lab
	Particle size distribution - dry sieving	BS 1377-2:1990	Lab
	Particle size distribution - sedimentation by hydrometer	BS 1377-2:1990	Lab
	Particle Density - gas jar method	BS 1377-2:1990	Lab
	Bulk density - By Linear Measurement	BS 1377-2:1990 Clause 7.2	Lab
	California Bearing Ratio (CBR)	BS 1377-4:1990	Lab
	Swelling of soaked CBR specimen	BS 1377-4:1990	Lab
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	Lab
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	Lab



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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)	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	Lab
	MCV - natural moisture content	BS 1377-4:1990	Lab
	MCV/moisture content relation	BS 1377-4:1990	Lab
	Chalk crushing value	BS 1377-4:1990	Lab
	Undrained shear strength in triaxial compression without measurement of pore pressure.	BS 1377-7 :1990 Clause 8	Lab
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Undrained shear strength of remoulded cohesive material	Specification for Highway Works, HMSO March 1998 Clause 633	Lab
	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2021	Lab
	Compressive strength of hydraulically bound mixtures	BS EN 13286-41:2021	Lab
	Moisture condition value	BS EN 13286-46:2003	Lab
	Manufacture of test specimens of hydraulically bound mixtures using vibrating hammer compaction	BS EN 13286-51:2004	Lab

End of Harrietsham Laboratory



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<u>Billericay Laboratory</u>			
AGGREGATES	Particle size distribution - sieving method	BS EN 933-1:2012	Lab
	Water content - drying in a ventilated oven	BS EN 1097-5:2008	Lab
	Uniformity coefficient	BS EN 14688-2: 2018	Lab
ROAD MATERIALS - unbound and hydraulically bound mixtures	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2021	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer (definitive method)	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Lab
	Plastic limit	BS 1377-2:1990	Lab
	Plasticity index	BS 1377-2:1990	Lab
	Particle size distribution - wet sieving	BS 1377-2:1990	Lab
	Particle size distribution - dry sieving	BS 1377-2:1990	Lab
	Particle Density - gas jar method	BS 1377-2:1990	Lab
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	Lab



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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)	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	Lab
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	Lab
	MCV - natural moisture content	BS 1377-4:1990	Lab
End of Billericay Laboratory			



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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
<u>Heathrow Laboratory</u>			
AGGREGATES	Methods of reducing laboratory samples - using a riffle box - reduction by quartering - to a test portion of a specified mass within a small tolerance	BS EN 932-2:1999	Lab
	Particle size distribution - sieving method	BS EN 933-1:2012	Lab
	Constituents of coarse recycled aggregate - Test for geometrical properties of aggregates.	BS EN 933-11:2009	Lab
	Water content - drying in a ventilated oven	BS EN 1097-5:2008	Lab
	Uniformity coefficient	BS EN 14688-2: 2018	Lab
CONCRETE – fresh	Compaction Factor	BS1881-103:1993	Lab
	Degree of Compactability	BS EN 12350-4:2019	Lab
	Density	BS EN 12350-6: 2019	Lab
	Air Content -Pressure method	BS EN 12350-7:2019	Lab
	Making test cubes and curing	BS EN 12390-2:2019	Lab
CONCRETE - fresh reinforced	Making test cylinders and curing	BS EN 12390-2:2019	Lab
	Method for Making Test Beams from Fresh Concrete	BS EN 12390: Pt 2:2019 & BS EN 14651:2005 + A1:2007	Lab
	Fibre content -- Steel fibres	BS EN 14721:2005 + A1 2007	Lab



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE – sprayed	Fibre Content of Fibre Reinforced Concrete	Documented In-House Method C11(B2) Issue 3	Lab
CONCRETE – hardened	Compressive strength of cubes	BS EN 12390-3:2019	Lab
	Curing	BS EN 12390-2:2019	Lab
	Dimensions	BS EN 12390-1:2021	Lab
	Compressive strength of resin concrete cubes - including Curing and Density	BS 6319-2:1983	Lab
	Cored Specimens - examining and testing in compression	BS EN 12504-1:2019	Lab
	Density	BS EN 12390-7:2019	Lab
	Flexural strength	BS EN 12390-5:2019	Lab
	Fibre Content	BS EN 14488-7:2006	Lab
	Flexural Tensile Strength ((limit of proportionality (LOP), residual)	BS EN 14651:2005+A1:2007	Lab
ROAD MATERIALS - unbound and hydraulically bound mixtures	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2021	Lab



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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	Lab
	Liquid limit - cone penetrometer (definitive method)	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Lab
	Plastic limit	BS 1377-2:1990	Lab
	Plasticity index	BS 1377-2:1990	Lab
	Particle size distribution - wet sieving	BS 1377-2:1990	Lab
	Particle size distribution - dry sieving	BS 1377-2:1990	Lab
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	Lab
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	Lab
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	Lab
	MCV - natural moisture content	BS 1377-4:1990	Lab
	MCV/moisture content relation	BS 1377-4:1990	Lab
End of Heathrow Laboratory			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<u>Wilton International Site Laboratory</u>			
CONCRETE - hardened	Compressive strength of cubes	BS EN 12390-3:2019	Lab
	Curing	BS EN 12390-2:2019	Lab
	Dimensions	BS EN 12390-1:2021	Lab
	Density	BS EN 12390-7:2019	Lab
End of Wilton International Site Laboratory			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<u>Woodsmith Mine Site Laboratory</u>			
CONCRETE - hardened Soils for Civil Engineering Purposes	Compressive strength of cubes	BS EN 12390-3:2019	Lab
	Curing	BS EN 12390-2:2019	Lab
	Dimensions	BS EN 12390-1:2021	Lab
	Density	BS EN 12390-7:2019	Lab
	Moisture content - oven drying method	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Lab
	Plastic limit	BS 1377-2:1990	Lab
	Plasticity index	BS 1377-2:1990	Lab
	Particle size distribution - wet sieving	BS 1377-2:1990	Lab
	Particle size distribution - dry sieving	BS 1377-2:1990	Lab
	Particle size distribution - hydrometer method	BS 1377-2:1990	Lab
	Particle density - gas jar	BS 1377-2:1990	Lab
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	Lab
End of Woodsmith Mine Site Laboratory			



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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
<u>Heathrow (Airside) Site Laboratory</u>			
AGGREGATES	Uniformity coefficient	BS EN 14688-2: 2018	Lab
CONCRETE – fresh	Making test cubes and curing	BS EN 12390-2:2019	Lab
	Making test cylinders and curing	BS EN 12390-2:2019	Lab
CONCRETE - hardened	Cubes - curing	BS EN 12390-2:2019	Lab
	Cylinders - curing	BS EN 12390-3:2019 BS EN 12390-2:2019	Lab
	Curing of Test Beams	BS EN 12390-2:2019	Lab
End of Heathrow (Airside) Site Laboratory			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<u>Crawley Site Laboratory</u>			
SOILS for civil engineering purposes	Sampling site excavated material - from heaps	Documented In-House Method STP S0/Method 2 Issue 4	Lab
	Sampling imported granular material - from stockpiles, heap	Documented In-House Method STP S0/Method 4 issue 4	Lab
	Moisture content - oven drying method	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer (definitive method)	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Lab
	Plastic limit	BS 1377-2:1990	Lab
	Plasticity index	BS 1377-2:1990	Lab
	Particle size distribution - wet sieving	BS 1377-2:1990	Lab
	Particle size distribution - dry sieving	BS 1377-2:1990	Lab
	Particle Density - gas jar method	BS 1377-2:1990	Lab
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	Lab
	MCV - natural moisture content	BS 1377-4:1990	Lab
End of Crawley Site Laboratory			



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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
<u>Isle of Grain Site Laboratory</u>			
CONCRETE – fresh (cont'd)	Making test cubes and curing	BS EN 12390-2:2019	Lab
	Making test cylinders and curing	BS EN 12390-2:2019	Lab
CONCRETE – hardened	Compressive strength of cubes	BS EN 12390-3:2019	Lab
	Curing	BS EN 12390-2:2019	Lab
	Dimensions	BS EN 12390-1:2021	Lab
	Density	BS EN 12390-7:2019	Lab
	Tensile splitting strength	BS EN 12390-6:2009	Lab
End of Isle of Grain Site Laboratory			



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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
Hartlepool – Under flexilbe scope			
AGGREGATES	Water Content	BS EN 1097-5: 2008	Lab (flex3)
CONCRETE – hardened	Curing of Concrete Specimens	BS EN 12390-2: 2019	Lab (flex3)
	Dimensions of Concrete Specimens	BS EN 12390-1: 2021	Lab (flex3)
	Compressive Strength of Concrete Cubes	BS EN 12390-3: 2019	Lab (flex3)
	Density of Concrete Cubes	BS EN 12390-7: 2019	Lab (flex3)
	Tensile Splitting Strength	BS EN 12390-6: 2009	Lab (flex3)
End of Hartlepool Site Laboratory			



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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
<u>Activities Performed Away from Permanent Locations</u>			
AGGREGATES	Sampling - from stockpiles	BS EN 932-1:1997	Site
BITUMINOUS MIXTURES for roads and other paved areas	Temperature measurement - laid material - in a heap (Contact method Only)	BS EN 12697-13:2017	Site
	Sampling from - around augers of the paver - workable materials in heaps - coated chippings from stockpiles - finished material - core cutting method	BS EN 12697-27:2017	Site
	Determination of the thickness of a bituminous pavement - destructive method	BS EN 12697-36:2022	Site
	Compacted Density - nuclear density method	Documented In-House Method TP50 Issue 1	Site
	Compacted Density - non nuclear method	Documented In-House Method TP 91 Issue1	Site
	Surface macrotexture depth by volumetric patch technique	BS EN 13036-1:2010	Site
	Surface regularity by rolling straight-edge	TRRL Supplementary Report 290:1977	Site
Bituminous Road Pavement			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE - fresh	Compaction Factor	BS 1881-103:1993	Site
	Sampling - composite sample - spot sample	BS EN 12350-1:2019	Site
	Slump	BS EN 12350-2:2019	Site
	Determination of Flow	BS EN 12350-5:2019	Site
	Density	BS EN 12350-6: 2019	Site
	Air content - pressure gauge method	BS EN 12350-7:2019	Site
	Slump Flow and T500	BS EN 12350-8:2019	Site
	V-Funnel	BS EN 12350-9:2010	Site
	L box	BS EN 12350-10:2010	Site
	Sieve Segregation	BS EN 12350-11:2010	Site
	J Ring	BS EN 12350-12:2010	Site
	Making concrete cubes	BS EN 12390-2:2019	Site
	Curing concrete cubes	BS EN 12390-2:2019	Site
	Making concrete cylinders	BS EN 12390-2:2019	Site
	Making concrete Prism	BS EN 12390-2:2019	Site
	Method for Making Test Beams from Fresh Concrete	BS EN 12390: Pt 2:2019 BS EN 14651:2005 + A1:2007	Site
	Fibre Content	BS EN 14488-7:2006	Site
	Static segregation of self consolidating concrete -column technique	ASTM C1610-21	Site
	Bleeding of Concrete	ASTM C232-21	Site



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE - fresh reinforced	Fibre content - Steel fibres	BS EN 14721:2005 + A1 2007	Site
	Fibre content - Steel fibres	Documented In House Method C11(B2) Issue 3	Site
	Fibre content - Polymer fibres	Documented In House Method C11(B2) Issue 3	Site
CONCRETE - hardened	Sampling - by coring	BS EN 12504-1: 2019	Site
	Coring	BS EN 14488-1:2005	Site
	Drilling for dust samples	Building Research Establishment Information Paper 21/86	Site
	Measurement of carbonation depth	BS EN 14630: 2006 BRE Digest 405	Site
	Half-cell potential of uncoated reinforcing steel in concrete	ASTM C876-22b	Site
CONCRETE – hardened, reinforced	Visual and hammer survey	Documented In House Method TP 64 Issue 1	Site
	Resistivity of Concrete	Documented In House Method TP 66 Issue 1	Site
	Location of reinforcement	BS 1881: Part 204: 1988	Site
PAVED SURFACES	Skid resistance value	BS EN 16165:2021	Site
ROAD AND AIRFIELD SURFACE CHARACTERISTICS	Slip/Skid resistance of a surface - The pendulum test	BS EN 13036-4:2011	Site



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ROAD PAVEMENT SURFACES	Surface regularity using a rolling straight-edge	Specification for Highway Works, HMSO November 2006 Clause 702	Site
	Surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	Site
REINSTATEMENT OF OPENINGS IN HIGHWAYS	Measurement of layer thickness and visual examination of bituminous core samples	Documented In-House Method TP114 Issue 1	Site
SOILS for civil engineering purposes	Sampling site excavated material - from heaps	Documented In-House Method STP S0/Method 2 Issue 4	Site
	MCV - natural moisture content	BS 1377-4:1990	Site
	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
	In-situ moisture density - nuclear method - comparative tests	BS 1377-9:1990	Site
	Vertical deformation and strength characteristics by the incremental plate loading test	BS 1377-9:1990	Site
	In-situ California Bearing Ratio (CBR)	BS 1377-9:1990	Site



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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)	Calculation of equivalent CBR value using the plate bearing test	Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 Rev1	Site
	Dynamic Cone Penetrometer (DCP)	Documented In-House Method TP 45 Issue 2	Site
	Calculation of nominal CBR value using the Dynamic Cone Penetrometer test (DCP)	DMRB, IAN 73/06 – Design of Road Pavement Foundations Rev 1:2009	Site
UNBOUND and HYDRALICALLY BOUND MIXTURES	Moisture condition value (MCV)	BS EN 13286-46:2003	Site
End of Activities performed away from Permanent Locations			



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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
<u>Flexible Scope for Establishing Site Laboratories</u>			
AGGREGATES	Sampling - from stockpiles	BS EN 932-1:1997	Lab
	Methods of reducing laboratory samples - using a riffle box - reduction by quartering - to a test portion of a specified mass within a small tolerance	BS EN 932-2:1999	Lab
	Particle size distribution - sieving method	BS EN 933-1:2012	Lab
	Flakiness index	BS EN 933-3:2012	Lab
	Shape index	BS EN 933-4:2008	Lab
	Classification test for the constituents of coarse recycled aggregate	BS EN 933-11:2009	Lab
	Resistance to fragmentation - Los Angeles method	BS EN 1097-2:2020	Lab
	Water content	BS EN 1097-5:2008	Lab
	Particle density and water absorption - pycnometer method for aggregates between 0.063 mm and 4 mm	BS EN 1097-6:2022	Lab
	Particle density and water absorption - pycnometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2022	Lab
	Magnesium sulfate test	BS EN 1367-2:2009	Lab
	Uniformity coefficient	BSEN 14688-2: 2018	Lab



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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	Preparation of samples for the determining binder content, water content and grading	BS EN 12697-28:2020	Lab
	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2020	Lab
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2020	Lab
	Particle size distribution	BS EN 12697-2:2015 + A1: 2019	Lab
	Maximum density - volumetric procedure	BS EN 12697-5:2018	Lab
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen - by dimensions	BS EN 12697-6:2020	Lab
	Air voids content	BS EN 12697-8:2018	Lab
	Determination of the dimensions of a bituminous sample	BS EN 12697-29:2002	Lab
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2019	Lab



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE - fresh	Sampling - composite sample - spot sample	BS EN 12350-1:2019	Lab
	Sampling of fresh concrete	BS EN 14488-1:2005	Lab
	Slump	BS EN 12350-2:2019	Lab
	Air content - pressure gauge method	BS EN 12350-7:2019	Lab
	Making concrete - cubes - beams - prisms - cylinders	BS EN 12390-2:2019	Lab
	Manufacture and initial curing of beams/prisms	BSEN 12390-2:2019 BS EN 14651:2007 + A1	Lab
	Curing	BS EN 12390-2:2019	Lab
	Slump	BS EN 12350-2:2019	Lab
	Dimensions	BS EN 12390-1:2021	Lab
	Curing	BS EN 12390-2:2019	Lab
CONCRETE - hardened	Compressive strength of cubes	BS EN 12390-3:2019	Lab
	Tensile splitting strength	BS EN 12390-6:2009	Lab
	Density	BS EN 12390-7:2019	Lab
	Cored Specimens - examining and testing in compression	BS EN 12504-1:2019	Lab
	Fibre content of fibre reinforced concrete	BS EN 14488-7:2006	Lab



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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	Lab
	Saturation moisture content of chalk	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer - definitive	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Lab
	Plastic limit	BS 1377-2:1990	Lab
	Plasticity index	BS 1377-2:1990	Lab
	Particle size distribution - wet sieving	BS 1377-2:1990	Lab
	Particle size distribution - dry sieving	BS 1377-2:1990	Lab
	Particle size distribution - fine grained soils (hydrometer method)	BS 1377-2:1990	Lab
	Particle density - gas jar	BS 1377-2:1990	Lab
	Dry density/moisture content relationship - 2.5 kg rammer - 4.5 kg rammer - Vibrating Hammer	BS 1377-4:1990	Lab
	Moisture condition value (MCV)	BS 1377-4:1990	Lab
	MCV - natural moisture content	BS 1377-4:1990	Lab
	MCV / Moisture Content relationship	BS 1377-4:1990	Lab



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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) UNBOUND and HYDRALICALLY BOUND MIXTURES	California Bearing Ratio (CBR)	BS 1377-4:1990	Lab
	Swelling of soaked CBR specimen	BS 1377-4:1990	Lab
	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377-7:1990	Lab
	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2021	Lab
	Moisture condition value (MCV)	BS EN 13286-46:2003	Lab
	California bearing ratio, immediate bearing index and linear swelling	BS EN 13286-47:2021	Lab
End of Flexible Scope for establishing Site laboratories			
End of Schedule			