Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0001

Accredited to ISO/IEC 17025:2017

SOCOTEC UK Limited

Issue No: 144 **Issue date:** 06 January 2025

Unit 11
Cowley Mill Trading Estate
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Testing performed by the Organisation at the locations specified below

SOCOTEC UK Limited, is accredited for flexible scopes under the combined procedure GS QMS 022 that enable it to:
1) Establish site laboratories to conduct the construction materials testing and sampling activities and energy services preparation and testing of coals and fuels that are indicated in the table below with the location code X.
2) Update currently accredited test methods to the latest versions of those test methods
3) Transfer currently accredited test methods between the accredited locations listed on this schedule

Locations covered by the Organisation and their relevant activities

Laboratory locations:

Location details	Local contact	Activity
Bretby: Bretby Business Park Ashby Road Burton-upon-Trent Staffordshire DE15 0YZ	Mr S Bate Tel: +44 (0)1283 554372 E-Mail: scott.bate@socotec.com	Coatings laboratory and site testing and on-site weathering
Bridgend: Unit 15 Crosby Yard Wildmill Bridgend CF31 1JZ	Mr N Oliver Tel: +44 (0)1895 235235 Fax: +44 (0)1895 274265 E-Mail: nick.oliver@socotec.com	Construction materials laboratory testing
Doncaster: Wellsyke Road Doncaster South Yorkshire DN6 7DU	Mr C Marshall Tel: +44 (0)1977 518908 E-Mail: Clive.marshall@socotec.co.uk	Construction materials laboratory testing
SOCOTEC Central: Leofric Business Park Binley Coventry CV3 2TF	Mr J Charles Tel: +44 (0)2475 310700 Fax: E-Mail: Jason.charles@socotec.co.uk	Construction materials laboratory and site testing

Location details		Local contact	Activity
Bretby: Bretby Business Park Ashby Road Burton-upon-Trent Staffordshire DE15 0YZ		H Chapman Tel: +44 (0) Fax: +44 (0) E-Mail: Heather.chapman@socotec.com	Oils laboratory testing
Dorset: Unit 16/17 Oxford Court Cambridge Road Granby Industrial Estate Weymouth Dorset DT4 9GH		Mr T Green Tel: +44 (0)1929 463091 Fax: +44 (0)1929 463719 E-Mail: Tom.Green@socotec.com	Construction materials laboratory and site testing
Renewable Energy:	**Location Code:**		
Bretby Business Park Ashby Road Burton-upon-Trent Staffordshire DE15 0YZ	A	Mr J Clay Tel: +44 (0)1283 554454 Fax: +44 (0)1283 554474 Email: james.clay@socotec.com	Preparation and testing of solid fuels
Unit 3, Canal Street Burton-upon-Trent DE14 3TB	B	Mr J Clay Tel: +44 (0)1283 554454 Fax: +44 (0)1283 554474 Email: james.clay@socotec.com	Preparation and sampling of solid fuels
Solid fuel handling and industrial sites	D	Mr J Clay Tel: +44 (0)1283 554454 Fax: +44 (0)1283 554474 Email: james.clay@socotec.com	Sampling of solid fuels
Temporary Site Laboratories:	**Location Code:**		
DRAX Power Station The South Prep Lab Drax Selby YO8 8PJ	E	Mr J Clay Tel: +44 (0)1283 554454 Fax: +44 (0)1283 554474 Email: james.clay@socotec.com	Preparation and testing of solid fuels
Drax Ports: Biomass Terminal Biomass Operations Gladstone Dock Gladstone Avenue Bootle Liverpool L20 1BE	F	Mr J Clay Tel: +44 (0)1283 554454 Fax: +44 (0)1283 554474 Email: james.clay@socotec.com	Preparation and testing of solid fuels

Location details	Location Code:	Local contact	Activity
Temporary Site Laboratories:			
Port of Tyne Coal Terminal Building Tyne Dock Estate South Shields NE34 9PL	G	Mr J Clay Tel: +44 (0)1283 554454 Fax: +44 (0)1283 554474 Email: james.clay@socotec.com	Preparation and testing of solid fuels
Immingham Port Associated British Ports Humber International Terminal West Haven Way Immingham Dock Immingham DN40 2YD	H	Mr J Clay Tel: +44 (0)1283 554454 Fax: +44 (0)1283 554474 Email: james.clay@socotec.com	Preparation and testing of solid fuels
Hull Dock Northern Gap Hedon Road Kingston upon Hull HU9 5PR	I	Mr J Clay Tel: +44 (0)1283 554454 Fax: +44 (0)1283 554474 Email: james.clay@socotec.com	Preparation and testing of solid fuels
Glasgow: Queenslie Court 139 Summerlee Street Glasgow G33 4DB		Mr K McIntosh Tel: +44 (0)141 774 6271 Fax: +44 (0)141 774 9280 E-Mail: kenny.mcintosh@socotec.com	Construction materials laboratory and site testing
Dartford: Unit 8 Applegarth Drive Questor Dartford Kent DA1 1JD		Mr N Oliver Tel: +44 (0)1895 235235 Fax: +44 (0)1895 274265 E-Mail: nick.oliver@socotec.com	Construction materials laboratory testing
Oldbury: Unit 5 Hainge Park Hainge Road Tividale Oldbury West Midlands B69 2NY		Mr D Partridge Tel: +44 (0)121 552 0653 E-mail: dave.partridge@socotec.com	Site testing only of concrete structures and paved surfaces

Location details	Local contact	Activity
Stockton-on-Tees: Wass Way Durham Lane Industrial Park Eaglescliffe Stockton-on-Tees TS16 0RG	Mr M Ellis Tel: +44 (0)1642 790800 Fax: +44 (0)1642 790848 E-Mail: martyn.ellis@socotec.com	Site testing only of concrete and steel piles and foundations
Uxbridge: Unit 11 Cowley Mill Trading Estate Longbridge Way Uxbridge Middlesex UB8 2YG	Mr N Oliver Tel: +44 (0)1895 235235 Fax: +44 (0)1895 274265 E-Mail: nick.oliver@socotec.com	Construction materials laboratory and site testing
Warrington: 29 Rufford Court Woolston Warrington WA1 4RF	Mr C Marshall Tel: +44 (0)1925 286220 Fax: +44 (0)1925 838135 E-Mail: Clive.marshall@socotec.co.uk	Construction materials laboratory and site testing
HS2 C1: South Portal Chalfont Lane West Hyde Hertfordshire WD3 9XN	Mr D Thorowgood Tel: +44 (0)1622 632100 E-Mail: Darren.Thorowgood@socotec.com	Construction Materials Site Laboratory – laboratory testing

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Testing performed by the Organisation at the locations specified

Contents

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Bretby Laboratory			
COATINGS – non-metallic	Cyclic Ageing	BS EN ISO 12944-6:2018 BS EN ISO 12944-9:2018	Lab
	Examination and preparation of test samples	BS EN ISO 1513:2010	Lab
	Standard panels for testing	BS EN ISO 1514:2024	Lab
	Scratch resistance - constant-loading method	BS EN ISO 1518-1:2023	Lab
	Cross-cut test	BS EN ISO 2409:2020 ASTM D3359-23	Lab / Site
	Film thickness	BS EN ISO 2808:2019 (Methods 6B, 7B.2 & 7C) ISO 19840:2012	Lab / Site
	Density – 6ycnometer method	BS EN ISO 2811-1:2023	Lab
	Determination of gloss value at 20 degrees, 60 degrees and 85 degrees	BS EN ISO 2813:2014	Lab / Site
	Viscosity using cone-and-plate viscometer operated at a high rate of shear	BS EN ISO 2884-1 :2006 BS 3900-A7-1 :2006	Lab
	Resistance to humid atmospheres containing sulfur dioxide	BS EN ISO 3231:1998 BS 3900-F8:1993	Lab
	Percentage volume of non-volatile matter using a coated test panel	BS EN ISO 3233-1:2019	Lab
	Non-volatile-matter content	BS EN ISO 3251:2019	Lab
	Bend test (conical mandrel)	BS EN ISO 6860:2006 BS 3900-E11:2006	Lab
	Through-dry state and through-dry time	BS EN ISO 9117-1:2009	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
COATINGS – non-metallic (cont'd)	Surface-drying test using ballotini	BS EN ISO 9117-3:2010	Lab
	Resistance to neutral salt spray (NSS)	BS EN ISO 9227:2022+A1:2024 ASTM B117-19	Lab
	Artificial weathering - exposure to fluorescent UV lamps and water	BS EN ISO 11507:2007 (withdrawn) BS 3900-F16:2007 (withdrawn)	Lab
	Volatile organic compound (VOC) content - difference method	BS EN ISO 11890-1:2007	Lab
	Methods of exposure to laboratory light sources – Fluorescent UV lamps	BS EN ISO 16474-1:2013 BS EN ISO 16474-3:2021	Lab
	Colour and colour difference: measurement	BS 3900-D9:1986 ISO 7724-2:1984	Lab
	Colour and colour difference: calculation	BS 3900-D10:1986 ISO 7724-3:1984	Lab
	Resistance to impact (falling ball test)	BS 3900-E7 :1974	Lab
	Resistance to humidity (cyclic condensation)	BS 3900-F2:1973	Lab
	Natural weathering test	BS 3900-F6:1976	Site
	Surface profile of blast cleaned steel	ASTM D4417- 21 Method B ASTM D4417-21 Method C	Lab / Site
	Pull-off strength of coatings using portable adhesion testers	ASTM D4541-17 ISO 4624 :2023	Lab / Site
SURFACES – uncoated	Resistance to neutral salt spray (NSS)	BS EN ISO 9227:2022+A1:2024 ASTM B117-19	Lab

End of Bretby Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Bridgend Laboratory			
CONCRETE – fresh	Curing cubic specimens for strength tests	BS EN 12390-2:2019	Lab
CONCRETE – hardened	Compressive strength of cubes – including curing	BS EN 12390-3:2019 BS EN 12390-2:2019	Lab
	Density	BS EN 12390-7:2019	Lab
	Shape and Dimension	BS EN 12390-1:2021	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
End of Bridgend Laboratory			

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Doncaster Laboratory			
CONCRETE – fresh	Curing cubic specimens for strength tests	BS EN 12390-2:2019	Lab
CONCRETE – hardened	Curing cubic specimens for strength tests	BS EN 12390-2:2019	Lab
SOILS for civil engineering purposes	Water content	ISO 17892-1:2014	Lab
End of Doncaster Laboratory			

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOCOTEC Central Laboratory			
AGGREGATES	Aggregate impact value – dry	BS 812-112:1990	Lab
	Aggregate impact value - soaked	BS 812-112:1990	Lab
	Uniformity coefficient (221 2217)	BS 6100-2.2.1:1992 (withdrawn)	Lab
	Uniformity coefficient	BS EN ISO 14688-2:2004+A1:2013 and SHW Series 600, Table 6/1	Lab
	Sampling stockpiles of fine aggregates by hand	BS EN 932-1:1997	Site
	Sampling stockpiles of coarse aggregates by hand	BS EN 932-1:1997	Site
	Particle size distribution - sieving method	BS EN 933-1:2012	Lab
	Percentage of crushed and broken surfaces in coarse aggregate particles	BS EN 933-5:1998	Lab
	Constituents of coarse recycled aggregate	BS EN 933-11:2009	Lab
	Micro-Deval coefficient	BS EN 1097-1:2011	Lab
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2020	Lab
	Loose bulk density and voids	BS EN 1097-3:1998	Lab
	Compacted dry bulk density	BS EN 1097-3:1998	Lab
	Loose bulk density with damp aggregates	BS EN 1097-3:1998	Lab
	Water content	BS EN 1097-5:2008	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES (cont'd)	Particle density and water absorption – 11ycnometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2013	Lab
	Particle density and water absorption – 11ycnometer method for aggregate particles between 0,063 mm and 4 mm	BS EN 1097-6:2013	Lab
	Magnesium sulfate test - aggregate particles between 0,30 mm and 28 mm	BS EN 1367-2:2009	Lab
BITUMINOUS MIXTURES for roads and other paved areas	Temperature of coated mixtures by hand-held infra-red thermometer	BS 598-1:2011	Site
	Sampling from the material around the augers of the paver	BS EN 12697-27:2017	Site
	Sampling of workable material in heaps	BS EN 12697-27:2017	Site
	Sampling coated chippings from stockpiles	BS EN 12697-27:2017	Site
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2020	Lab / Site
BITUMINOUS ROAD SURFACING	In-situ density - nuclear method	Documented In-House Method No DIHM 120 based upon TRRL SR 754:1982	Site
	In-situ density - non-nuclear method	Documented In-House Method No DIHM 119	Site
CONCRETE – fresh	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2019	Site
	Slump	BS EN 12350-2:2019	Site
	Flow	BS EN 12350-5:2019	Site

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE – fresh (cont'd)	Air content - water column method	BS EN 12350-7:2019	Site
	Making cubic specimens for strength tests	BS EN 12390-2:2019	Lab / Site
	Curing cubic specimens for strength tests	BS EN 12390-2:2019	Lab / Site
	Temperature	Documented In-House Method No.DIHM 201	Site
CONCRETE – hardened	Compressive strength of cubes – including curing	BS EN 12390-3:2019 BS EN 12390-2:2019	Lab
	Density	BS EN 12390-7:2019	Lab
	Shape and Dimension	BS EN 12390-1:2021	Lab
	Taking cores	BS EN 12504-1:2019	Site
ROAD PAVEMENT SURFACES	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	Site
	Surface regularity using a rolling straight-edge	DIHM 121, Specification for Highway Works, HMSO February 2016, Clause 702	Site
PAVED SURFACES	Drilling of concrete and bituminous cores	Documented In-House Method No.DIHM 501	Site
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
	Uniformity coefficient	BS EN ISO 14688-2:2004+A1:2013 and SHW Series 600, Table 6/1	Lab
	Plastic limit	BS 1377-2:1990	Lab

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)	Plasticity index and liquidity 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 the hydrometer method	BS 1377-2:1990 9.5	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
	Moisture condition value (MCV)	BS 1377-4:1990	Lab
	MCV - natural moisture content	BS 1377-4:1990	Lab / Site
	MCV/moisture content relation	BS 1377-4:1990	Lab
	California Bearing Ratio (CBR)	BS 1377-4:1990	Lab
	Swelling of soaked CBR specimen	BS 1377-4:1990	Lab
	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

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 - absolute tests	BS 1377-9:1990	Site
	In-situ bulk density - nuclear method - compliance 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
	Determination of equivalent CBR value using the plate bearing test	DIHM 301, Design Manual for Roads and Bridges. Volume 7:Pavement Design and Maintenance. IAN 73/06 Rev 1 (2009):Foundations	Site
	Dynamic cone penetrometer	Documented In-House Method No DIHM 302	Site
	Shear strength – small shearbox	BS 1377:Part 7:1990	Lab
	Shear strength – large shearbox	BS 1377:Part 7:1990	Lab
	Unconfined compressive strength - load frame method	BS 1377:Part 7:1990	Lab
	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377:Part 7:1990	Lab
	Undrained shear strength - triaxial compression with multistage loading and without measurement of pore pressure	BS 1377:Part 7:1990	Lab
	Undrained shear strength of remoulded cohesive material	Specification for Highway Works Clause 633:2016	Lab

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)	Effective shear strength - consolidated-undrained triaxial compression test with measurement of pore pressure	BS 1377:Part 8:1990	Lab
	Effective shear strength - (isotropically) consolidated undrained multistage triaxial compression test with measurement of pore pressure	Documented In-House Method SML PROC/0041	Lab
	Effective shear strength - consolidated drained multistage triaxial compression test with measurement of volume change	Documented In-House Method TP 0043	Lab
	Linear shrinkage	BS 1377:Parts 1 & 2: 1990	Lab
	Saturation moisture content of chalk	BS 1377:Part 2:1990	Lab
	Density – linear measurement	BS 1377:Part 2:1990	Lab
	Density – immersion in water	BS 1377:Part 2:1990	Lab
	Particle density – gas jar	BS 1377:Part 2:1990	Lab
	Particle density – small pyknometer	BS 1377:Part 2:1990	Lab
	Particle size distribution - wet sieving	BS 1377:Part 2:1990	Lab
	Particle size distribution - dry sieving	BS 1377:Part 2:1990	Lab
	Particle size distribution - sedimentation - pipette method	BS 1377:Part 2:1990	Lab
	Particle size distribution - sedimentation - hydrometer method	BS 1377:Part 2:1990	Lab
	Resistivity - Wenner probe method	BS 1377:Part 3:2018	Lab

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)	Maximum and minimum dry densities for granular soils	BS 1377:Part 4:1990	Lab
	Chalk crushing value	BS 1377:Part 4:1990	Lab
	One-dimensional consolidation properties	BS 1377:Part 5:1990	Lab
	Swelling and collapse characteristics	BS 1377:Part 5:1990	Lab
	Permeability in a triaxial cell	BS 1377:Part 6:1990	Lab
	Accelerated permeability test	Environment Agency R & D Technical Report P1-398/TR/2	Lab
	Thermal conductivity – transient heat method	Documented In-House Method TP 044 using KD2 PRO or Tempos TR3 equipment	Lab
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Proctor test for mixtures compacted with a 2,5 kg rammer (A) in the Proctor mould (A) using alternative apparatus	BS EN 13286-2:2010	Lab
	Proctor test for mixtures compacted with a 2,5 kg rammer (A) in the large Proctor mould (B) using alternative apparatus	BS EN 13286-2:2010	Lab
	Modified Proctor test for mixtures compacted with a 4,5 kg rammer (B) in the Proctor mould (A) using alternative apparatus	BS EN 13286-2:2010	Lab
	Modified Proctor test for mixtures compacted with a 4,5 kg rammer (B) in the large Proctor mould (B) using alternative apparatus	BS EN 13286-2:2010	Lab
	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
UNBOUND and HYDRAULICALLY BOUND MIXTURES (cont'd)	Vertical expansion of California bearing ratio specimens during curing	BS EN 13286-47:2012	Lab
	California bearing ratio / immediate bearing index	BS EN 13286-47:2012	Lab
	Degree of pulverization	BS EN 13286-48:2005	Lab / Site
	Moisture condition value	BS EN 13286-46:2003	Lab / Site
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014	Lab
	Density - linear measurement method	BS EN ISO 17892-2:2014	Lab
	Density - immersion in water method	BS EN ISO 17892-2:2014	Lab
	Determination of particle density Small pycnometer method	BS EN ISO 17892-3:2015	Lab
	Particle size distribution Hydrometer sedimentation method	BS EN ISO 17892-4:2016	Lab
	Particle size distribution Pipette sedimentation method	BS EN ISO 17892-4:2016	Lab
	Particle size distribution Seiving method	BS EN ISO 17892-4:2016	Lab
ROCK	Point load strength and anisotropy indices	ISRM Commission on Testing Methods, Suggested Method for Determining Point Load Strength 1985	Lab
	Slake durability index	ISRM Suggested Methods – Rock Characterization Testing and Monitoring Ed. E T Brown – 1981	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ROCK (cont'd)	Uniaxial compressive strength	ISRM Commission on Testing Methods, Suggested Method for Determining Uniaxial Compressive Strength 2007	Lab
	Water content	ISRM Suggested Methods – Rock Characterization Testing and Monitoring Ed. E T Brown – 1981	Lab
	Porosity and density - by saturation and buoyancy techniques	ISRM Suggested Methods – Rock Characterization Testing and Monitoring Ed. E T Brown – 1981	Lab
	Porosity and density - by saturation and caliper techniques	ISRM Suggested Methods – Rock Characterization Testing and Monitoring Ed. E T Brown – 1981	Lab
GEOCONE	Penetration resistance using the fixed 60° cone and friction sleeve (static cone penetration test CPT)	BS 1377:Part 9:1990 Continuous measurement using a penetrometer tip with electrical sensors for cone and sleeve resistance and inclination	Site
	Penetration resistance using the fixed 60° cone and friction sleeve (static cone penetration test CPT)	BS 1377:Part 9:1990 Continuous measurement using a penetrometer tip with electrical sensors for cone and sleeve resistance and inclination and piezometric pressure	Site
End of SOCOTEC Central Laboratory			

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Engineering & Oils Laboratory			
OILS	Viscosity	Documented In-House Method No MEC025 Based on ASTM D7279-20 using automatic viscometer	Lab
	Polychlorinated biphenyls Aroclor 1254 Aroclor 1260	Documented In-House Method No ELE006 using gas chromatography	Lab
	Wear metals and additives	Documented In-House Method No MEC018 using inductively coupled plasma emission spectrometry	Lab
	Acid Number (0 – 25 mg KOH/g)	Documented In-House Method No MEC007 based on ASTM D664-18ed2 using potentiometric titration	Lab
	Base Number (1 – 20 mg KOH/g)	Documented In-House Method No MEC008 based on ASTM D4739-23 using potentiometric titration	Lab
INSULATING LIQUIDS; OILS/MIDELS/SILICONES	Water content	Documented In-House Method No ELE003 based on BS EN 60814: 1998; IEC 60814: 1997 using coulometric titration	Lab
	Electric strength test – dielectric breakdown voltage up to 100kV	Documented In-House Method No ELE003 based on IEC 60156: 2018	Lab
	Acidity	Documented In-House Method No ELE003 based on BS EN 62021-2: 2007; IEC 62021-2: 2007 using manual colorimetric titration and automated colorimetric (photometric) titration	Lab
End of Engineering and Oils Laboratory			

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Dorset Laboratory			
AGGREGATES	Uniformity coefficient (221 2217)	BS 6100-2.2.1:1992 (withdrawn)	Lab
	Uniformity coefficient	BS EN ISO 14688-2:2004+A1:2013 and SHW Series 600, Table 6/1	Lab
	Particle size distribution - sieving method	BS EN 933-1:2012	Lab
	Flakiness index	BS EN 933-3:2012	Lab
	Water content	BS EN 1097-5:2008	Lab
	Chloride content	BS EN 1744-1:2009 Determination by potentiometric or Volhard titration	Lab
	Water soluble sulphate content	BS EN 1744-1:2009	Lab
	Total sulphur by combustion	BS EN 1744-1-2009	Lab
	Acid soluble sulphate	Extraction by BS EN 1744-1:2009 Sulphate by ICPOES using DIHM 704	Lab
BITUMINOUS MIXTURES for roads and other paved areas	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	Lab
	Maximum density - volumetric procedure	BS EN 12697-5:2018	Lab
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen	BS EN 12697-6:2020	Lab
	Air voids content	BS EN 12697-8:2018	Lab

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)	Percentage of the voids in the mineral aggregate filled with binder (VFB)	BS EN 12697-8:2018	Lab
	Measurements of temperature - in a lorry - of laid materials - in a heap	BS EN 12697-13:2000	Site
	Measurements of temperature - of laid materials - in a heap	BS 598 Part 1:2011	Site
	Temperature of coated mixtures by hand-held infra-red thermometer	BS 598-1:2011	Site
	Sampling of bituminous around the augers of a paver	BS EN 12697-27:2017	Site
	Preparation of samples for determining binder content, water content and grading	BS EN12697-28:2020	Lab / Site
	Determination of the thickness of a bituminous pavement - destructive measurement	BS EN 12697-36:2003	Lab
BITUMINOUS ROAD SURFACING	Rate of spread of chippings for mechanical chipping spreaders	BS 598-1:2011	Site
	Rate of spread of binder	BS EN 12272-1:2002	Site
CONCRETE – fresh	Curing cubic specimens for strength tests	BS EN 12390-2:2019	Site
CONCRETE – hardened	Compressive strength of cubes – including curing	BS EN 12390-3:2019 BS EN 12390-2:2019	Lab
	Density	BS EN 12390-7:2019	Lab
	Shape and Dimensions	BS EN 12390-1:2021	Lab
	Chemical Analysis – Cement content (Ca, Mg, Al, Fe & Si)	BS1881- 124: 1988 by ICP-OES	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE – hardened (cont'd)	Chloride content	BS1881-124: 1988 Determination by potentiometric or Volhard titration	Lab
MORTARS, SCREEDS and PLASTERS	Chemical analysis & mix proportions (Ca, Mg, Al, Fe & Si)	BS 4551:2005 by ICP-OES	Lab
ROAD PAVEMENT SURFACES	Logging of road pavement cores	Documented In-House Method No DIHM 117	Lab
	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1: 2010	Site
SOIL and AGGREGATE	Water soluble sulphate	TRL 447:2005 Test 1 by ICP-OES	Lab
	Acid soluble sulphate	TRL 447:2005 Test 2 by ICP-OES	Lab
	Determination of Total Sulphur	TRL 447:2005 Test 4B; Using ELTRA CS-800 Analyser	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
	pH value	BS 1377-3:1990 (withdrawn)	Lab
	Resistivity: Wenner probe method	BS 1377-3:2018	Lab
	Redox potential	BS 1377-3:1990 (withdrawn)	Lab
	Chloride content	BS 1377-3:1990 (withdrawn)	Lab
	Organic content	BS 1377-3:1990 (withdrawn)	Lab
	Loss on ignition	BS 1377-3:1990 (withdrawn)	Lab
	Total sulphur	ISO15178:2000; Using ELTRA CS-800 Analyser with Extraction in Accordance with BRE Publication BR279	Lab

End of Dorset Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Renewable Energy Laboratories			
COALS, MANUFACTURED SOLID FUELS, COLLIERY SPOILS, SOILS and MINERALS	Loss of moisture on air drying	Documented In-House Method SP 1 based on ISO 13909-4:2016	B
	Preparation of general analysis samples	Documented In-House Method SP 2 based on ISO 13909-4:2016	B
	Total moisture content	Documented In-House Methods CA 1 and SP 1 based on ISO 589:2008 and ISO 13909-4:2016	A & B
	Moisture content of analysis sample	Documented In-House Method CA 2 based on ISO 687:2024 and BS ISO 11722:2013	A
	Ash content	Documented In-House Method CA 3 based on ISO 1171:2010	A
	Volatile matter	Documented In-House Method CA 6 based on ISO 562:2010	A
	Crucible swelling number	Documented In-House Method CA 13 based on ISO 501:2012	A
	Hardgrove grindability index of hard coal	Documented In-House Method SP 3 based on ASTM D409/D409M:2016	B
	Size analysis	Documented In-House Method SP 8 based on ISO 728:2021and BS ISO 1953:2015	B
COALS, MANUFACTURED SOLID FUELS and their RESIDUES	Fusibility of ash	Documented In-House Method CA 17 based on ISO 540:2008	A
COALS, MANUFACTURED SOLID FUELS, COLLIERY SPOILS, SOILS and OILS	Calorific value	Documented In-House Method CA 11 based on ISO 1928:2020	A
	Sulphur content	Documented In-House Method CA 31 based on ISO 19579:2006 using Helios analyser	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
COALS, MANUFACTURED SOLID FUELS, COLLIERY SPOILS, SOILS, OILS, SEDIMENTS and ORGANIC MATERIALS including ORGANIC CHEMICALS	Carbon, Hydrogen and Nitrogen	Documented In-House Method CA 9 by instrumental analysis based on ISO 29541:2010	A
COALS, SOLID FUELS, COLLIERY SPOILS	Loss of moisture on air drying	Documented In-House Method SP 1 based on ISO 13909-4:2016	E
	Preparation of general analysis samples	Documented In-House Method SP 2 based on ISO 13909-4:2016	E
COAL POWDERS	Sodium Magnesium Aluminium Silicon Phosphorus Sulphur Chlorine Potassium Calcium Iron Derived Parameters: Base/Acid Ratio Ash Slagging Index Fouling Factor	Documented In-House Method CA 36 based on method in Analyst Volume 115, November 1990 using wavelength dispersive XRF (using Bruker S8 Tiger XRF Analyser)	A
COAL AND COAL POWDER	Major Elemental Oxides	Documented In-House Method CA36 based on method in Analyst Volume 115, November 1990 using wave dispersive XRF (Bruker S8 Tiger XRF Analyser)	A
COAL and MANUFACTURED SOLID FUELS	Manual sampling	Documented In-House Method SP 23 based on ISO 18283:2022	D
	Determination of Fluorine and Chlorine	In-house method CA38 based on: BS ISO 11724:2019 BS ISO 18806:2019	A
COAL	Determination of Bromine	In-house method CA38 based on: BS ISO 11724:2019 BS ISO 18806:2019	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOLID BIOFUELS	Manual sampling	Documented In-House Method SP 23 based on BS EN ISO 18135:2017	D
	Sample preparation	Documented In-House Method SP 19 based on BS EN ISO 14780:2017, Amd 1:2019	B, E, F, G, H & I
	Particle size distribution	Documented In-House Method SP 8 based on BS EN ISO 17827-1:2016 and 17827-2:2016	B, E, F, G, H & I
	Total moisture	Documented In-House Method SP 20 based on BS EN ISO 18134-1:2022	B & E
	Particle size distribution of disintegrated pellets	Documented In-House Method SP 24 based on BS EN ISO 17830:2016	E
	Bulk density	Documented In-House Method SP 25 based on BS EN ISO 17828:2015	B & E
	Moisture in general analysis sample	Documented In-House Method CA 2 based on BS EN ISO 18134-3:2023	A
	Ash content	Documented In-House Method CA 3 based on BS EN ISO 18122:2022	A
	Volatile matter	Documented In-House Method CA 6 based on BS EN ISO 18123:2023	A
	Total Carbon, Hydrogen and Nitrogen	Documented In-House Method CA 9 based on BS EN ISO 16948:2015	A
	Calorific value	Documented In-House Method CA 11 based on BS EN ISO 18125:2017	A
	Total sulphur	Documented In-House Method CA 31 based on BS EN ISO 16994:2016	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOLID BIOFUELS (cont'd)	Mechanical durability of pellets	Documented In-House Method SP 21 based on BS EN ISO 17831-1:2015	B & E
	Length and diameter of pellets	Documented In-House Method SP 28 based on BS EN ISO 17829:2015	B & E
	Chlorine	Documented In-House Method CA36 using wave dispersive XRF (Bruker S8 Tiger XRF Analyser)	A
	Biomass content using the selective dissolution method	Documented In-House Method CA 32 based on BS EN ISO 21644:2021 Annex B By Calorific Value method By Gravimetric method	A
	Determination of Fluorine, Chlorine and Bromine	In-house method CA38 based on: BS EN ISO 16994:2016	A
	Ash Melting Behaviour (Deformation, Hemisphere and Flow Temperatures)	Documented In-House Method CA17 based on BS EN ISO 21404:2020	A
SOLID RECOVERED FUELS	Manual sampling	BS EN 15442:2011	D
	Sample preparation	Documented In-House Method SP 19 based on ISO 21646:2022	B
	Total moisture	Documented In-House Method SP 20 based on DD CEN/TS 15414-1:2010	B
	Particle size distribution by sieving	In-house method SP8 based on BS EN 15415-1:2011	B
	Moisture in general analysis sample	Documented In-House Method CA 2 based on BS EN ISO 21660-3:2021	A
	Ash content	Documented In-House Method CA 3 based on BS EN ISO 21656:2021	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOLID RECOVERED FUELS (cont'd)	Volatile matter	Documented In-House Method CA 6 based on BS EN ISO 22167:2021	A
	Carbon, Hydrogen and Nitrogen	Documented In-House Method CA 9 based on BS EN ISO 21663:2020	A
	Calorific value	Documented In-House Method CA 11 based on BS EN ISO 21654:2021	A
	Sulphur content	Documented In-House Method CA 31 based on BS EN ISO 21663:2020	A
	Biomass content using the selective dissolution method	Documented In-House Method CA 32 based on BS EN ISO 21644:2021 Annex B By Calorific Value method By Gravimetric method By Carbon method	A
	Chlorine	Documented In-House Method CA36 using wave dispersive XRF (Bruker S8 Tiger XRF Analyser)	A
	Determination of Fluorine, Chlorine and Bromine	In-house method CA38 based on: BS EN 14582:2016 BS EN 15408:2011	A
	Ash Melting Behaviour (Deformation, Hemisphere and Flow Temperatures)	Documented In-House Method CA17 based on PD CEN/TR 15404:2010	A
REFUSE DERIVED FUELS	Sample preparation	Documented In-House Method SP 19 based on ISO 21646:2022	B
	Total moisture	Documented In-House Method SP 20 based on DD CEN/TS 15414-1:2010	B
	Particle size distribution by sieving	In-house method SP8 based on BS EN 15415-1:2011	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
REFUSE DERIVED FUELS (cont'd)	Moisture in general analysis sample	Documented In-House Method CA 2 based on BS EN ISO 21660-3:2021	A
	Ash content	Documented In-House Method CA 3 based on BS EN ISO 21656:2021	A
	Volatile matter	Documented In-House Method CA 6 based on BS EN ISO 22167:2021	A
	Carbon, Hydrogen and Nitrogen	Documented In-House Method CA 9 based on BS EN ISO 21663:2020	A
	Calorific value	Documented In-House Method CA 11 based on BS EN ISO 21654:2021	A
	Sulphur content	Documented In-House Method CA 31 based on BS EN ISO 21663:2020	A
	Biomass content using the selective dissolution method	Documented In-House Method CA 32 based on BS EN ISO 21644:2021 Annex B By Calorific Value method By Gravimetric method By Carbon method	A
	Chlorine	Documented In-House Method CA36 using wave dispersive XRF (Bruker S8 Tiger XRF Analyser)	A
	Determination of Fluorine, Chlorine and Bromine	In-house method CA38 based on: BS EN 14582:2016 BS EN 15408:2011	A
	Ash Melting Behaviour (Deformation, Hemisphere and Flow Temperatures)	Documented In-House Method CA17 based on PD CEN/TR 15404:2010	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WASTE FINES	Loss on Ignition	DIHM SP19a for sample preparation and DIHM CA3a for analysis, both based on HMRC procedure for LOI at 440oC Excise Notice LFT1 and Revenue Scotland SLFT2006	B
WASTE WOOD	Manual sort	Documented In-house method SP29 – Biomass and Fossil Energy Content based on “Template Methodology for measuring fossil derived contamination within waste wood” Ofgem Guidance Document November 2013	B
End of Renewable Energy Laboratories			

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Glasgow Laboratory			
AGGREGATES	Ten per cent fines value - dry – particle size 10 mm and greater	BS 812-111:1990	Lab
	Ten per cent fines value - soaked – particle size 10 mm and greater	BS 812-111:1990	Lab
	Frost-heave	BS 812-124:2009	Lab
	Uniformity coefficient (221 2217)	BS 6100-2.2.1:1992 (withdrawn)	Lab
	Uniformity coefficient	BS EN ISO 14688-2:2004+A1:2013 and SHW Series 600, Table 6/1	Lab
	Sampling stockpiles of fine aggregates by hand	BS EN 932-1:1997	Site
	Sampling stockpiles of coarse aggregates by hand	BS EN 932-1:1997	Site
	Particle size distribution - sieving method	BS EN 933-1:2012	Lab
	Flakiness index	BS EN 933-3:2012	Lab
	Constituents of coarse recycled aggregate	BS EN 933-11:2009	Lab
	Micro-Deval coefficient	BS EN 1097-1:2011	Lab
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2020	Lab
	Water content	BS EN 1097-5:2008	Lab
	Particle density and water absorption – 30ycnometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2013	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES (cont'd)	Particle density and water absorption – 31ycnometer method for aggregate particles between 0,063 mm and 4 mm	BS EN 1097-6:2013	Lab
	Polished stone value	BS EN 1097-8:2020	Lab
	Aggregate abrasion value	BS EN 1097-8:2020	Lab
	Magnesium sulfate test - aggregate particles between 0,30 mm and 28 mm	BS EN 1367-2:2009	Lab
	Drying shrinkage	BS EN 1367-4:2008	Lab
	Frost heave	Specification for Highway Works, HMSO November 2009 Clause 801	Lab
BITUMINOUS MATERIALS	Needle penetration – 25°C	BS EN 1426:2007	Lab
	Bitumen recovery: rotary evaporator	BS EN 12697-3: 2013	Lab
BITUMINOUS MIXTURES for roads and other paved areas	Protocol for determining the design binder content of designed HRA surface course mixtures	BS 594987:2015+A1:2017 Annex H	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 12697-2:2019	Lab
	Maximum density - volumetric procedure	BS EN 12697-5:2018	Lab

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 - by dimensions	BS EN 12697-6:2020	Lab
	Air voids content	BS EN 12697-8:2018	Lab
	Percentage of the voids in the mineral aggregate filled with binder (VFB)	BS EN 12697-8:2018	Lab
	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002	Lab
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002	Lab
	Measurements of temperature - in a lorry - of laid materials - in a heap	BS EN 12697-13:2000	Site
	Stiffness – test applying indirect tension to cylindrical specimens (IT-CY)	BS EN 12697-26:2004 Annex C	Lab
	Sampling from the material around the augers of the paver	BS EN 12697-27:2017	Site
	Sampling of laid and compacted materials by coring	BS EN 12697-27:2017	Site
	Sampling coated chippings from stockpiles	BS EN 12697-27:2017	Site
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2020	Lab / Site
	Determination of the dimensions of a bituminous sample	BS EN 12697-29:2020	Lab
	Specimen preparation by impact compactor with wooden pedestal	BS EN 12697-30:2018	Lab

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)	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2019	Lab
	Laboratory mixing	BS EN 12697-35:2016	Lab
	Resistance to permanent deformation – unconfined dynamic loading (RLAT)	BS DD 226:1996 (withdrawn)	Lab
	Resistance to permanent deformation – unconfined dynamic loading under vacuum (VRLAT)	BS DD 226:1996 (withdrawn) modified in accordance with TRL PA 3287/97	Lab
	Determination of the thickness of a bituminous pavement - destructive measurement	BS EN 12697-36:2003	Lab
BITUMINOUS ROAD SURFACING	In-situ density - nuclear method	Documented In-House Method No DIHM 120 based upon TRRL SR 754:1982	Site
	Rate of spread of chippings for mechanical chipping spreaders	BS 598-1:2011	Site
CONCRETE – fresh	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2019	Site
	Slump	BS EN 12350-2:2019	Site
	Making cubic specimens for strength tests – includes curing	BS EN 12390-2:2019	Lab / Site
	Temperature	Documented In-House Method No DIHM 201	Site
CONCRETE – hardened	Compressive strength of cubes – including curing	BS EN 12390-3:2019 BS EN 12390-2:2019	Lab
	Density	BS EN 12390-7:2019	Lab
	Shape and Dimensions	BS EN 12390-1:2021	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE – hardened (cont'd)	Taking cores	BS EN 12504-1:2019	Site
	Cored specimens - examining and testing in compression	BS EN 12504-1:2019	Lab
MORTARS, SCREEDS and PLASTERS	Sampling from - conveyors, pumps, etc. - small hoppers, bins or heaps	BS 4551-1:1998 (withdrawn)	Site
	Making test cubes	BS 4551-1:1998 (withdrawn)	Site
	Curing test cubes	BS 4551-1:1998 (withdrawn)	Lab
PAVED SURFACES	Measurement of material depths and sampling by coring	Documented In-House Method No DHIM 110 On-site Sampling Procedure based on the New Roads and Street Works Act (1991) (Specification for the Reinstatement of Openings in Highways) 3rd edition: April 2010and Scottish 4th edition: May 2019	Site
ROAD PAVEMENT SURFACES	Texture depth by the sand-patch method	BS 598-105:2000 (withdrawn)	Site
	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	Site
	Surface regularity using a rolling straight-edge	DIHM 121, Specification for Highway Works, HMSO November 2016, Clause 702	Site
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 and liquidity index	BS 1377-2:1990	Lab

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)	Particle density - gas jar	BS 1377-2:1990 8.2	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 the hydrometer method	BS 1377-2:1990 9.5	Lab
	Resistivity: Wenner probe method	BS 1377-3:2018	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
	Moisture condition value (MCV)	BS 1377-4:1990	Lab
	MCV - natural moisture content	BS 1377-4:1990	Lab / Site
	MCV/moisture content relation	BS 1377-4:1990	Lab
	California Bearing Ratio (CBR)	BS 1377-4:1990	Lab
	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

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 - absolute tests	BS 1377-9:1990	Site
	In-situ bulk density - nuclear method - compliance 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
	Determination of equivalent CBR value using the plate bearing test	DIHM 301, Design Manual for Roads and Bridges. Volume 7:Pavement Design and Maintenance. IAN 73/06 Rev 1 (2009):Foundations (withdrawn)	Site
	Moisture condition value (MCV)	Specification for Highway Works, HMSO November 2006 Clause 636.2 TRL Report 273:1997	Lab
	Effective angle of internal friction and effective cohesion of earthworks materials	Specification for Highway Works, HMSO March 1998 Clause 636.2	Lab
	Natural moisture content MCV	Specification for Highway Works, HMSO November 2006 Clause 636.2 TRL Report 273:1997	Site
	Dynamic cone penetrometer	Documented In-House Method No DIHM 302	Site
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	Lab

End of Glasgow Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Dartford Laboratory			
CONCRETE - fresh	Curing cubic specimens for strength tests	BS EN 12390-2:2019	Lab
CONCRETE - hardened	Curing cubic specimens for strength tests	BS EN 12390-2:2019	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
End of Dartford Laboratory			

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Oldbury Laboratory			
CONCRETE - hardened	Taking cores	BS EN 12504-1:2019	Site
	Carbonation	BS EN 14630:2006	Site
	Drilling for dust samples	BRE IP 21/86	Site
CONCRETE - reinforced	Location of reinforcement	BS 1881-204:1988	Site
	Half-cell potential of uncoated reinforcing steel in concrete	ASTM C876-15.	Site
	Visual and hammer survey of concrete structures	Documented In-House Method No DIHM 403	Site
	Resistivity	DIHM 406 (excluding results interpretation)	Site
PAVED SURFACES	Drilling of concrete and bituminous cores	BS EN 12504-1:2019 BS EN 12697-27:2017	Site
BITUMINOUS MIXTURES for roads and other paved areas	Determination of the thickness of a bituminous pavement - destructive measurement	BS EN 12697-36:2003	Lab
	Sampling of laid and compacted materials by coring	BS EN 12697-27:2017	Site
End of Oldbury Laboratory			

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Stockton-on-Tees Laboratory			
CONCRETE structures, walls and piles	Integrity testing of concrete deep foundations by ultrasonic crosshole testing	ASTM D 6760-16	Site
FOUNDATION PILES	High-strain dynamic testing of deep foundations	ASTM D 4945-17	Site
	Low strain impact integrity testing of deep foundations	ASTM D5882-16	Site
	Static maintained load test	DIHM MS01 based on ICE Specification for Piling Edition 2:2007	Site
End of Stockton-on-Tees Laboratory			

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Uxbridge Laboratory			
AGGREGATES	Frost-heave	BS 812-124:2009	Lab
	Uniformity coefficient (221 2217)	BS 6100-2.2.1:1992 (withdrawn)	Lab
	Uniformity coefficient	BS EN ISO 14688-2:2004+A1:2013 and SHW Series 600, Table 6/1	Lab
	Sampling stockpiles of fine aggregates by hand	BS EN 932-1:1997	Site
	Sampling stockpiles of coarse aggregates by hand	BS EN 932-1:1997	Site
	Particle size distribution - sieving method	BS EN 933-1:2012	Lab
	Percentage of crushed and broken surfaces in coarse aggregate particles	BS EN 933-5:1998	Lab
	Constituents of coarse recycled aggregate	BS EN 933-11:2009	Lab
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2020	Lab
	Water content	BS EN 1097-5:2008	Lab
BITUMINOUS MIXTURES for roads and other paved areas	Temperature of bituminous mixtures in the hopper of a paver	BS 598-109:1990 (withdrawn)	Site
	Temperature of bituminous mixtures in laid-but-not-rolled material	BS 598-109:1990 (withdrawn)	Site
	Sampling from the material around the augers of the paver	BS EN 12697-27:2017	Site
	Sampling of workable material in heaps	BS EN 12697-27:2017	Site

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)	Sampling coated chippings from stockpiles	BS EN 12697-27:2017	Site
BITUMINOUS ROAD SURFACING	In-situ density - nuclear method	Documented In-House Method No DIHM 120	Site
CONCRETE - fresh	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2019	Site
	Slump	BS EN 12350-2:2019	Site
	Flow	BS EN 12350-5:2019	Site
	Density	BS EN 12350-6:2009	Site
	Air content - pressure gauge method	BS EN 12350-7:2019	Site
	Self-compacting concrete - slump-flow test	BS EN 12350-8:2010	Site
	Making cubic specimens for strength tests	BS EN 12390-2:2019	Lab / Site
	Curing cubic specimens for strength tests	BS EN 12390-2:2019	Lab / Site
	Fibre content of fibre reinforced concrete – fresh samples	BS EN 14488-7:2006 Method B	Lab
	Temperature	Documented In-House Method No DIHM 201	Site
	Compaction Factor	BS 1881 103:1993 (withdrawn)	Site
	L Box Test	BS EN 12350-10: 2010	Lab / Site
	Standard Test Methods for Bleeding of Concrete	ASTM C232/C232M-21	Lab / Site

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE – fresh (cont'd)	Standard Test Method for static segregation of self -consolidating concrete using column technique	ASTM C1610/C1610M-19	Lab / Site
	Bauer filtration test	CIA Z17-Recommended Practice, Tremie Concrete for Deep Foundations	Lab / Site
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2019 BS EN 12390-2:2019	Lab
	Flexural strength	BS EN 12390-5:2019	Lab
	Density	BS EN 12390-7:2019	Lab
	Shape and Dimensions	BS EN 12390-1:2021	Lab
	Depth of penetration of water under pressure	BS EN 12390-8:2019	Lab
	Taking cores	BS EN 12504-1:2019	Site
	Cored specimens - examining and testing in compression	BS EN 12504-1:2019	Lab
	Fibre content of fibre reinforced concrete - hardened sample	BS EN 14488-7:2006 Method A	Lab
	Test method for metallic fibre concrete. Measuring the flexural tensile strength (limit of proportionality (LOP), residual)	BS EN 14651:2005+A1:2007	Lab
FLOORING	Dampness	BS 8203:2017, Annex B.4	Site
	Soundness	BS 8204-1:2003 + A1:2009 BRE IP 11/84	Site
MORTARS, SCREEDS and PLASTERS	Compressive strength - including curing	BS 4551-1:1998 (withdrawn)	Lab
PAVED SURFACES	Skid resistance value	BS 7976-2:2002 + A1:2013	Site

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PAVED SURFACES (cont'd)	Drilling of concrete and bituminous cores	Documented In-House Method DIHM 501	Site
	Determination of Surface Roughness	DIHM 504	Site
ROAD PAVEMENT SURFACES	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1: 2010	Site
	Surface regularity using a rolling straight-edge	DIHM 121, Specification for Highway Works, HMSO November 2016, Clause 702	Site
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	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
	Particle size distribution - wet sieving	BS 1377-2:1990	Lab
	Particle size distribution - dry sieving	BS 1377-2:1990	Lab
	Particle density - gas jar	BS 1377-2:1990 8.2	Lab
	Particle density - small pyknometer	BS 1377-2:1990 8.3	Lab
	Particle size distribution - sedimentation by the hydrometer method	BS 1377-2:1990 9.5	Lab

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 (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
	Moisture condition value (MCV)	BS 1377-4:1990	Lab
	MCV - natural moisture content	BS 1377-4:1990	Lab / Site
	MCV/moisture content relation	BS 1377-4:1990	Lab
	California Bearing Ratio (CBR)	BS 1377-4:1990	Lab
	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 bulk density - nuclear method - compliance 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
	Determination of equivalent CBR value using the plate bearing test	DIHM 301, Design Manual for Roads and Bridges. Volume 7:Pavement Design and Maintenance. IAN 73/06 Rev 1 (2009):Foundations	Site

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)	Dynamic cone penetrometer	Documented In-House Method No DIHM 302	Site
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	Lab
	California bearing ratio / immediate bearing index	BSEN 13286-47:2012	Lab
	Degree of pulverization	BS EN 13286-48:2005	Lab / Site
	Proctor test for mixtures compacted with a 2,5 kg rammer (A) in the Proctor mould (A) using alternative apparatus	BS EN 13286-2:2010	Lab
	Proctor test for mixtures compacted with a 2,5 kg rammer (A) in the large Proctor mould (B) using alternative apparatus	BS EN 13286-2:2010	Lab
	Modified Proctor test for mixtures compacted with a 4,5 kg rammer (B) in the Proctor mould (A) using alternative apparatus	BS EN 13286-2:2010	Lab
	Modified Proctor test for mixtures compacted with a 4,5 kg rammer (B) in the large Proctor mould (B) using alternative apparatus	BS EN 13286-2:2010	Lab

End of Uxbridge Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Warrington Laboratory			
AGGREGATES	Uniformity coefficient (221 2217)	BS 6100-2.2.1:1992 (withdrawn)	Lab
	Uniformity coefficient	BS EN ISO 14688-2:2004+A1:2013 and SHW Series 600, Table 6/1	Lab
	Sampling stockpiles of fine aggregates by hand	BS EN 932-1:1997	Site
	Sampling stockpiles of coarse aggregates by hand	BS EN 932-1:1997	Site
	Particle size distribution - sieving method	BS EN 933-1:2012	Lab
	Water content	BS EN 1097-5:2008	Lab
BITUMINOUS MIXTURES for roads and other paved areas	Temperature of bituminous mixtures in the hopper of a paver	BS 598-109:1990 (withdrawn)	Site
	Temperature of bituminous mixtures in laid-but-not-rolled material	BS 598-109:1990 (withdrawn)	Site
	Maximum density - volumetric procedure	BS EN 12697-5:2018	Lab
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen	BS EN 12697-6:2020	Lab
	Air voids content	BS EN 12697-8:2018	Lab
	Sampling from the material around the augers of the paver	BS EN 12697-27:2017	Site
	Sampling of laid and compacted materials by coring	BS EN 12697-27:2017	Site
	Sampling coated chippings from stockpiles	BS EN 12697-27:2017	Site

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)	Determination of the thickness of a bituminous pavement - destructive measurement	BS EN 12697-36:2022	Lab
BITUMINOUS ROAD SURFACING	In-situ density - nuclear method	Documented In-House Method No DIHM 120 based upon TRRL SR 754:1982	Site
	In-situ density - non nuclear method	Documented In-House Method No DIHM 119	Site
CONCRETE - fresh	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2019	Site
	Temperature	Documented In-House Method No DIHM 201	Site
	Slump	BS EN 12350-2:2019	Site
	Flow	BS EN 12350-5:2019	Site
	Making cubic specimens for strength tests	BS EN 12390-2:2019	Lab / Site
	Curing cubic specimens for strength tests	BS EN 12390-2:2019	Lab / Site
	Air content - pressure gauge method	BS EN 12350-7:2019	Lab
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2019 BS EN 12390-2:2019	Lab
	Density	BS EN 12390-7:2019	Lab
	Shape and Dimensions	BS EN 12390-1:2021	Lab
	Taking cores	BS EN 12504-1:2019	Site
	Cored specimens - examining and testing in compression	BS EN 12504-1:2019	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HOT BINDER DISTRIBUTORS for road surface dressing	Specification for the method of test for binder sprayers for accuracy of spread of binder (spray bar bench test or depot tray test)	BS 1707:2018	Site
MORTARS, SCREEDS and PLASTERS	Sampling from - conveyors, pumps, etc. - small hoppers, bins or heaps	BS 4551-1:1998 (withdrawn)	Site
	Making test cubes	BS 4551-1:1998 (withdrawn)	Site
	Compressive strength - including curing	BS 4551-1:1998 (withdrawn)	Lab
PAVED SURFACES	Drilling of concrete and bituminous cores	Documented In-House Method No DIHM 501	Site
	Inspection of the reinstatement of openings in highways	Documented In-House Method No DIHM 111 based on the New Roads and Street Works Act (1991) (Specification for the Reinstatement of Openings in Highways) 3rd edition: April 2010	Site
ROAD PAVEMENT SURFACES	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	Site
	Surface regularity using a rolling straight-edge	DIHM 121, Specification for Highway Works, HMSO November 2016, Clause 702	Site
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 and liquidity index	BS 1377-2:1990	Lab

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)	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
	Moisture condition value (MCV)	BS 1377-4:1990	Lab
	MCV - natural moisture content	BS 1377-4:1990	Lab / Site
	MCV/moisture content relation	BS 1377-4:1990	Lab
	California Bearing Ratio (CBR)	BS 1377-4:1990	Lab
	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 bulk density - nuclear method - absolute tests	BS 1377-9:1990	Site
	In-situ bulk density - nuclear method - compliance tests	BS 1377-9:1990	Site

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)	Vertical deformation and strength characteristics by the incremental plate loading test	BS 1377-9:1990	Site
	Dynamic cone penetrometer	Documented In-House Method No DIHM 302	Site
	Determination of equivalent CBR value using the plate bearing test	DIHM 301, Design Manual for Roads and Bridges. Volume 7:Pavement Design and Maintenance. IAN 73/06 Rev 1 (2009):Foundations (withdrawn)	Site
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	Lab
	Moisture condition value	BS EN 13286-46:2003	Lab / Site
	Vertical expansion of California bearing ratio specimens during curing	BS EN 13286-47:2012	Lab
	California bearing ratio / immediate bearing index	BS EN 13286-47:2012	Lab
	Degree of pulverization	BS EN 13286-48:2005	Lab / Site
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014	Lab

End of Warrington Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	HS2 C1 LAB		
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Site Lab
	Liquid limit	BS 1377-2:1990	Site Lab
	Plastic limit	BS 1377-2:1990	Site Lab
	Plasticity index	BS 1377-2:1990	Site Lab
	Particle size distribution	BS 1377-2:1990	Site Lab
	Maximum Dry Density/Optimium Moisture Content 2.5 Kg Rammer	BS 1377-4:1990	Site Lab
	MCV	BS 1377-4:1990	Site Lab
	CBR by Plate Bearing	DIHM 301	Site
	CBR value by dynamic cone penetrometer (IAN 73)	DIHM 302	Site
	Incremental plate bearing	BS 1377-9:1990 (DIHM 303)	Site
	Insitu density by NDM	BS 1377-9:1990 (DIHM 306)	Site
	Insitu density, sand replacement method (large cylinder)	BS 1377-9:1990	Site
	EV2 Plate load test (based on NF P94 117.1)	DIHM 322	Site
CONCRETE - fresh	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2019	Site Lab
	Slump	BS EN 12350-2:2019	Site Lab
	Making cubic specimens for strength tests	BS EN 12390-2:2019	Site Lab
	Curing cubic specimens for strength tests	BS EN 12390-2:2019	Site Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HS2 C1 LAB			
CONCRETE – fresh (cont'd)	Sampling of fresh concrete, beam and cube manufacture (HS2 C1 only)	DIHM 215	Site Lab 2
	Test method for metallic fibre concrete. Measuring the fibre content in fresh and hardened concrete	BS EN 14721:2005+A1:2007 Method B – fresh sample	Site Lab 2
	Polymer fibre content	DIHM 216	Site Lab 2
	Flow of hydraulic cement mortar based on ASTM C1437-20	DIHM 222	Site/Lab
CONCRETE – hardened	Curing cubic specimens for strength tests	BS EN 12390-2:2019	Site Lab
	Test method for metallic fibre concrete. Measuring the flexural tensile strength (limit of proportionality (LOP), residual)	BS EN 14651:2005+A1:2007	Site Lab 2
AGGREGATES	Sampling stockpiles of fine aggregates by hand	BS EN 932-1:1997	Site Lab
	Sampling stockpiles of coarse aggregates by hand	BS EN 932-1:1997	Site Lab
	Water content	BS EN 1097-5:2008	Site Lab
	Particle size distribution	BS EN 933-1:2012	Site Lab
	Uniformity coefficient	BS EN ISO 14688-2:2004	Site Lab
STABILIZED MATERIALS for civil engineering purposes	Sampling	BS 1924-1:1990	Site Lab
UNBOUND and HYDRAULICALLY BOUND MATERIALS	Degree of Pulverisation	EN 13286-48:2005	Site Lab
CONCRETE - fresh	Curing cubic specimens for strength tests	BS EN 12390-2:2019	Site
END OF HS2 C1 SITE LA			

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Flexible Scope for Establishing Site laboratories			
AGGREGATES	Sampling stockpiles of fine aggregates by hand	BS EN 932-1:1997	X
	Sampling stockpiles of coarse aggregates by hand	BS EN 932-1:1997	X
	Particle size distribution - sieving method	BS EN 933-1:2012	X
	Flakiness index	BS EN 933-3:2012	X
	Water content	BS EN 1097-5:2008	X
	Uniformity coefficient (221 2217)	BS 6100-2.2.1:1992 (withdrawn)	X
	Uniformity coefficient	BS EN ISO 14688-2:2004+A1:2013 and SHW Series 600, Table 6/1	X
BITUMINOUS MIXTURES for roads and other paved areas	Temperature of bituminous mixtures in the hopper of a paver	BS 598-109:1990 (withdrawn)	X
	Temperature of bituminous mixtures in laid-but-not-rolled material	BS 598-109:1990 (withdrawn)	X
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2020	X
	Particle size distribution	BS EN 12697-2:2019	X
	Maximum density - volumetric procedure	BS EN 12697-5:2018	X
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen	BS EN 12697-6:2020	X
	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002	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 (cont'd)	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002	X
	Sampling from the material around the augers of the paver	BS EN 12697-27:2017	X
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2020	X
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2003	X
	In-situ density - nuclear method	Documented In-House Method No DIHM 120 based upon TRRL SR 754:1982	X
CONCRETE - fresh	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2019	X
	Slump	BS EN 12350-2:2019	X
	Flow	BS EN 12350-5:2019	X
	Air content - water column method	BS EN 12350-7:2019	X
	Air content - pressure gauge method	BS EN 12350-7:2019	X
	Making cubic specimens for strength tests	BS EN 12390-2:2019	X
	Curing cubic specimens for strength tests	BS EN 12390-2:2019	X
	Testing sprayed concrete – Fibre content of fibre reinforced concrete	BS EN 14488-7:2006 Method B	X
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2019 BS EN 12390-2:2019	X

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE – hardened (cont'd)	Density	BS EN 12390-7:2019	X
	Shape and Dimensions	BS EN 12390-1:2021	X
ROAD PAVEMENT SURFACES	Texture depth by the sand-patch method	BS 598-105:2000 (withdrawn)	X
	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	X
	Surface regularity using a rolling straight-edge	DIHM 121, Specification for Highway Works, HMSO November 2016, Clause 702	X
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	X
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	X
	Plastic limit	BS 1377-2:1990	X
	Plasticity index and liquidity index	BS 1377-2:1990	X
	Particle size distribution - wet sieving	BS 1377-2:1990	X
	Particle size distribution - dry sieving	BS 1377-2:1990	X
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	X
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	X
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	X
	Moisture condition value (MCV)	BS 1377-4:1990	X
	MCV - natural moisture content	BS 1377-4:1990	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)	MCV/moisture content relationship	BS 1377-4:1990	X
	California Bearing Ratio (CBR)	BS 1377-4:1990	X
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	X
	In-situ density - core cutter method	BS 1377-9:1990	X
	In-situ bulk density - nuclear method - comparative tests	BS 1377-9:1990	X
	In-situ bulk density - nuclear method - absolute tests	BS 1377-9:1990	X
	In-situ bulk density - nuclear method - compliance tests	BS 1377-9:1990	X
	Vertical deformation and strength characteristics by the incremental plate loading test	BS 1377-9:1990	X
	In-situ California Bearing Ratio (CBR)	BS 1377-9:1990	X
	Uniformity coefficient	BS EN ISO 14688-2:2004 +A1:2013 and SHW Series 600, Table 6/1	X
	Determination of equivalent CBR value using the plate bearing test	DIHM 301, Design Manual for Roads and Bridges. Volume 7:Pavement Design and Maintenance. IAN 73/06 Rev 1 (2009):Foundations	X
	EV2 Plate Load Test	DIHM 322 (based on NF P94 117.1)	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)	Moisture condition value (MCV)	Specification for Highway Works, HMSO November 2006 Clause 632TS TRL Report 273:1997	X
	Natural moisture content MCV	Specification for Highway Works, HMSO November 2006 Clause 632TS TRL Report 273:1997	X
	Dynamic cone penetrometer	Documented In-House Method No DIHM 302	X
STABILIZED MATERIALS for civil engineering purposes	Sampling	BS 1924-1:1990; Specification for Highway Works clause 870	X
	In-situ Density – Nuclear Moisture / Density Gauge (NDM) – compliance	BS 1924-2:1990; Specification for Highway Works clause 870	X
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Proctor test for mixtures compacted with a 2,5 kg rammer (A) in the Proctor mould (A) using alternative apparatus	BS EN 13286-2:2010	X
	Proctor test for mixtures compacted with a 2,5 kg rammer (A) in the large Proctor mould (B) using alternative apparatus	BS EN 13286-2:2010	X
	Modified Proctor test for mixtures compacted with a 4,5 kg rammer (B) in the Proctor mould (A) using alternative apparatus	BS EN 13286-2:2010	X
	Modified Proctor test for mixtures compacted with a 4,5 kg rammer (B) in the large Proctor mould (B) using alternative apparatus	BS EN 13286-2:2010	X

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
UNBOUND and HYDRAULICALLY BOUND MIXTURES (cont'd)	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	X
	Determination of compressive strength of hydraulically bound mixtures – including curing	BS EN 13286-41:2003	X
	Degree of Pulverisation	BS EN 13286-48:2005	X
	Manufacture of tests specimens of hydraulically bound mixtures using vibrating hammer compaction – including curing	BS EN 13286-51:2004	X
COALS, MANUFACTURED SOLID FUELS, COLLIERY SPOILS, SOILS and MINERALS	Loss of moisture on air drying	Documented In-House Method SP1 based on ISO 13909-4:2016	X
	Preparation of general analysis samples	Documented In-House Method SP2 based on ISO 13909-4: 2016	X
	Total moisture content	Documented In-House Methods CA1 and SP1 based on ISO 589:2008 and ISO 13909-4: 2016	X
	Moisture content of analysis sample	Documented In-House Method CA2 based on ISO 687:2024 and ISO 11722: 2013	X
	Ash content	Documented In-House Method CA3 based on ISO 1171:2010	X
	Volatile matter	Documented In-House Method CA6 based on ISO 562:2010	X
	Size analysis	Documented In-House Method SP8 based on ISO 728:2021 and ISO 1953:2015	X
SOLID BIOFUELS	Particle size distribution	Documented In-House Method SP8 based on BS EN ISO17827-1:2016 and BS EN ISO 17827-2:2016	X

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOLID BIOFUELS (cont'd)	Sample preparation	Documented In-House Method SP19 based on EN ISO 14780:2017, Amd 1:2019	X
	Total moisture	Documented In-House Method SP20 based on BS EN ISO 18134-1:2022	X
	Bulk Density	Documented In-House Method SP25 based on BS EN ISO 17828:2015	X
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