


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0001</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>SOCOTEC UK Limited</h3> <p>Issue No: 109 Issue date: 29 November 2018</p>	
	<p>Acrewood Way Hatfield Road St Albans Hertfordshire AL4 0JY</p>	<p>Contact: Mr A. Watkinson Tel: +44 (0) 1302 723456 E-Mail: andrew.watkinson@socotec.com Website: www.socotec.co.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Environmental Scientifics Group Limited, trading as 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
<p>Bretby: Bretby Business Park Ashby Road Burton-upon-Trent Staffordshire DE15 0YZ</p>	<p>Mr R Emery Tel: +44 (0)1283 554372 E-Mail: ryan.emery@socotec.com</p>	<p>Coatings laboratory and site testing and on-site weathering</p>
<p>Bridgend: Unit 15 Crosby Yard Wildmill Bridgend CF31 1JZ</p>	<p>Mr R Rattue Tel: +44 (0)1895 235235 Fax: +44 (0)1895 274265 E-Mail: roger.rattue@socotec.com</p>	<p>Construction materials laboratory testing</p>
<p>Carcroft, Doncaster: Askern Road Carcroft Doncaster South Yorkshire DN6 8DG</p>	<p>Mr M Dawkins Tel: +44 (0)1977 518908 E-Mail: mark.dawkins@socotec.com</p>	<p>Construction materials laboratory testing</p>
<p>Daventry: 2 Newton Close Drayton Fields Industrial Estate Daventry Northamptonshire NN11 8RR</p>	<p>Mr S Bourton Tel: +44 (0)1327 703828 Fax: +44 (0)1327 300154 E-Mail: shane.bourton@socotec.com</p>	<p>Construction materials laboratory and site testing</p>



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Location details	Local contact	Activity
Doncaster: 4 Hexthorpe Road Doncaster South Yorkshire DN4 0AE	Mr P Hardy Tel: +44 (0)1302 380150 Fax: +44 (0)1302 380158 E-Mail: peter.hardy@socotec.com	Oils laboratory testing
Dorset: Units 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
Energy Services:	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
Immingham Dock South Humberside DN40 2QN	C Mr J Clay Tel: +44 (0)1283 554454 Fax: +44 (0)1283 554474 Email: james.clay@socotec.com	Sampling and preparation of coal
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:		
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, colliery spoils and solid biofuels
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 of solid fuels, colliery spoils and solid biofuels



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Location details		Local contact	Activity
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 of solid fuels, colliery spoils and solid biofuels
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 of solid fuels, colliery spoils and solid biofuels
Hull dock Northern gap Hedon road Kingston upon hull HU9 5QR	I	Mr J Clay Tel: +44 (0)1283 554454 Fax: +44 (0)1283 554474 Email: james.clay@socotec.com	Preparation of solid fuels, colliery spoils and solid biofuels
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
Maidstone: The Oasts Newnham Court Bearsted Road Maidstone ME14 5LH		Mr G Smolarczyk Tel: +44 (0)1622 632172 Fax: +44 (0)1622 631358 E-Mail: grzegorz.smolarczykr@socotec.com	Construction materials laboratory testing
Newcastle: Crawcrook Quarry Clara Vale Road Crawcrook Tyne & Wear NE40 3UL		Mr M Taylor Tel: +44 (0)191 413 6389 Fax: +44 (0)191 413 6437 E-Mail: mark.taylor@socotec.com	Construction materials laboratory testing



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Location details	Local contact	Activity
Oldbury: Unit 5 Hainge Park Hainge Road Tivdale 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
St Albans: Acrewood Way Hatfield Road St Albans Hertfordshire AL4 0JY	Mr T Norman Tel: + 44 (0)1727 816702 Fax: +44 (0)1727 816700 E-Mail: tim.norman@socotec.com	Metallurgical, slate and analytical chemistry laboratory testing
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: marty.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 M Dawkins Tel: +44 (0)1925 286220 Fax: +44 (0)1925 838135 E-Mail: mark.dawkins@socotec.com	Construction materials laboratory and site testing



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Location details	Local contact	Activity
Temporary Site Laboratories: Newtown: Alun Grittiths Site Offices A483/A489 Newtown Bypass Unit 3 Mochdre Industrial Estate Newtown SY16 4LE United Kingdom	Mr A. Watkinson Tel: +44 (0) 1302 723456 E.mail:andrew.watkinson@socotec.com	Construction Materials Site Laboratory – laboratory testing
Heathrow: Ferrovial Bravo Kilo Taxiways Control Post 8 Heathrow Airport Hounslow Middlesex TW6 1RU	Mr R Rattue Tel: +44 (0)1895 235235 Fax: +44 (0)1895 274265 E-Mail: roger.rattue@socotec.com	Construction Materials Site Laboratory – laboratory testing



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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
Bretby Laboratory			
COATINGS - non-metallic	Examination and preparation of test samples	BS EN ISO 1513:2010	Lab
	Standard panels for testing	BS EN ISO 1514:2016	Lab
	Scratch resistance - constant-loading method	BS EN ISO 1518-1:2011	Lab
	Cross-cut test	BS EN ISO 2409:2013	Lab/site
	Film thickness	BS EN ISO 2808:2007 BS 3900-C5:2007	Lab/site
	Density - pycnometer method	BS EN ISO 2811-1:2016	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 3233-1:2013	Lab
	Non-volatile-matter content	BS EN ISO 3251:2008	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	



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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 9227:2017 ASTM B117-16	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 and 3: 2013	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- 14 Method B	Lab/site
Pull-off strength of coatings using portable adhesion testers	ASTM D4541-17	Lab/site	
SURFACES - uncoated	Resistance to neutral salt spray (NSS)	BS EN ISO 9227:2017 ASTM B117-16	Lab



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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 12390-2:2009	Lab
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2009 BS EN 12390-2:2009	Lab
	Density	BS EN 12390-7:2009	Lab
	Shape and Dimension	BS EN 12390-1:2012	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
End of Bridgend Laboratory			



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Carcroft, Doncaster Laboratory			
CONCRETE - fresh	Curing cubic specimens for strength tests	BS EN 12390-2:2009	Lab
CONCRETE - hardened	Curing cubic specimens for strength tests	BS EN 12390-2:2009	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
End of Carcroft, Doncaster Laboratory			



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Daventry 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
	Aggregate impact value - dry	BS 812-112:1990	Lab
	Aggregate impact value - soaked	BS 812-112:1990	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
	Percentage of crushed and broken surfaces in coarse aggregate particles	BS EN 933-5:1998	Lab
	Shell content	BS EN 933-7:1998	Lab
Constituents of coarse recycled aggregate	BS EN 933-11:2009	Lab	
Micro-Deval coefficient	BS EN 1097-1:2011	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)	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2010	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
	Particle density and water absorption - pycnometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2013	Lab
	Particle density and water absorption - pycnometer 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
	Drying shrinkage	BS EN 1367-4:2008	Lab
Frost heave	Specification for Highway Works, HMSO November 2009 Clause 801	Lab	
BITUMINOUS MIXTURES for roads and other paved areas	Temperature of coated mixtures by hand-held infra-red thermometer	BS 598-1:2011	Site
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2012	Lab
	Particle size distribution	BS EN 12697-2:2002	Lab
	Maximum density - volumetric procedure	BS EN 12697-5:2009	Lab



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Bulk density - saturated surface dry (SSD) - sealed specimen - dry method - by dimensions	BS EN 12697-6:2012	Lab
	Air voids content	BS EN 12697-8:2003	Lab
	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002	Lab
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002	Lab
	Sampling from the material around the augers of the paver	BS EN 12697-27:2001	Site
	Sampling of workable material in heaps	BS EN 12697-27:2001	Site
	Sampling coated chippings from stockpiles	BS EN 12697-27:2001	Site
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2001	Lab / Site
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2003	Lab
	Determination of the thickness of a bituminous pavement - destructive measurement	BS EN 12697-36:2003	Lab



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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	
CAST STONE	Capillary absorption	BS 1217:2008	Lab	
CONCRETE - fresh	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2009	Site	
	Slump	BS EN 12350-2:2009	Site	
	Degree of compactability	BS EN 12350-4:2009	Site	
	Flow	BS EN 12350-5:2009	Site	
	Air content - water column method	BS EN 12350-7:2009	Site	
	Making cubic specimens for strength tests	BS EN 12390-2:2009	Lab / Site	
	Curing cubic specimens for strength tests	BS EN 12390-2:2009	Lab / Site	
	Temperature	Documented In-House Method No. DIHM 205	Site	
	CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2009 BS EN 12390-2:2009	Lab
		Depth of carbonation	BS 1881-201:1986 (withdrawn)	Lab
Density		BS EN 12390-7:2009	Lab	
Shape and Dimension		BS EN 12390-1:2012	Lab	
Taking cores		BS EN 12504-1:2009	Site	
Cored specimens - examining and testing in compression		BS EN 12504-1:2009	Lab	
	Carbonation	BRE Digest 405:May 1995	Lab	



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FLOORING	Dampness	BS 8203:2017, Annex B.4	Site
	Soundness	BS 8204-1:2003 + A1:2009 BRE IP 11/84	Site
MORTARS, SREEDS and PLASTERS	Compressive strength - including curing	BS 4551-1:1998 (withdrawn)	Lab
ROAD PAVEMENT SURFACES	Texture depth by the sand-patch method	BS 598-105:2000 (withdrawn)	Site
	Pavement surface macrottexture 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
	Plasticity index and liquidity index	BS 1377-2:1990	Lab
	Density - linear measurement	BS 1377-2:1990	Lab
	Particle density - gas jar	BS 1377-2:1990 8.2	Lab



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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
	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
	One-dimensional consolidation properties	BS 1377-5:1990	Lab
	Permeability by the constant-head method	BS 1377-5:1990	Lab
	Permeability in a triaxial cell	BS 1377-6:1990	Lab
	Shear strength by direct shear (small shearbox apparatus)	BS 1377-7:1990	Lab
Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377-7:1990	Lab	



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SOILS for civil engineering purposes (cont'd)	Undrained shear strength - triaxial compression with multistage loading and without measurement of pore pressure	BS 1377-7:1990	Lab
	Unconfined compressive strength - load frame method	BS 1377-7:1990	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
	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
Undrained shear strength of remoulded cohesive material	Specification for Highway Works, HMSO March 1998 Clause 633	Lab	
Effective angle of internal friction and effective cohesion of earthworks materials	Specification for Highway Works, HMSO March 1998 Clause 636	Lab	



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SOILS for civil engineering purposes (cont'd)	Coefficient of friction and adhesion between fill and reinforcing elements or anchor elements for reinforced soil and anchored earth structures	Specification for Highway Works, HMSO March 1998 Clause 639	Lab
	Determination of the permeability of clayey soils in a triaxial cell using the accelerated permeability test	Environment Agency R & D Technical Report P1-398/TR/2: January 2003	Lab
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Dynamic cone penetrometer	Documented In-House Method No DIHM 302	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
	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	Lab
	Vertical expansion of California bearing ratio specimens during curing	BS EN 13286-47:2012	Lab



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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)	California bearing ratio / immediate bearing index	BS EN 13286-47:2012	Lab
	Degree of pulverization	BS EN 13286-48:2005	Lab / Site

End of Daventry Laboratory



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Doncaster Laboratory			
OILS	Viscosity	Documented In-House Method No MSUS 052 using automatic viscometer	Lab
	Polychlorinated biphenyls Aroclor 1254 Aroclor 1260	Documented In-House Method No MSUS 122 using gas chromatography	Lab
	Wear metals and additives	Documented In-House Method No MSUS 076 using inductively coupled plasma emission spectrometry	Lab
	Acid Number (0 - 25 mg KOH/g)	Documented In-House Method No MSUS 081 based on IP Method 177 using potentiometric titration	Lab
	Base Number (1 - 20 mg KOH/g)	Documented In-House Method No MSUS 065 based on IP Method 400 using conductimetric titration	Lab
INSULATING LIQUIDS; OILS/MIDELS/SILICONES	Water content	Documented In-House Method No MSUS 109 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 MSUS 109 based on BS EN 60156: 1996; IEC 60156: 1995	Lab
	Acidity	Documented In-House Method No MSUS 109 based on BS EN 62021-2: 2007; IEC 62021-2: 2007 using colourimetric titration	Lab
End of Doncaster Laboratory			



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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	BSEN1744-1:2009	Lab	
	Water soluble sulphate content	BSEN1744-1:2009	Lab	
	Total sulphur by combustion	BSEN1744-1:2009	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 12697-1:2012	Lab
		Particle size distribution	BS EN 12697-2:2002	Lab
Maximum density - volumetric procedure		BS EN 12697-5:2009	Lab	
Bulk density - dry - saturated surface dry (SSD) - sealed specimen		BS EN 12697-6:2012	Lab	
Air voids content		BS EN 12697-8:2003	Lab	
Percentage of the voids in the mineral aggregate filled with binder (VFB)		BS EN 12697-8:2003	Lab	



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	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
	Sampling of bituminous around the augers of a paver	BS 12697-27:2001	Site
	Preparation of samples for determining binder content, water content and grading	BS EN12697-28:2001	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 12390-2:2009	Site
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2009 BS EN 12390-2:2009	Lab
	Density	BS EN 12390-7:2009	Lab
	Shape and Dimensions	BS EN 12390-1:2012	Lab
	Chemical Analysis – Cement content (Ca, Mg, Al, Fe & Si)	BS1881- 124: 1988 by ICP-OES	Lab
MORTARS, SCREEDS and PLASTERS	Chloride content	BS1881-124: 1988	Lab
	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



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ROAD PAVEMENT SURFACES (cont'd)	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1: 2010	Site
SOIL and AGGREGATE	Water soluble sulphate	TRL447:2005 Test 1 by ICP-OES	Lab
	Acid soluble sulphate	TRL447:2005 Test 2 by ICP-OES	Lab
	Determination of Total Sulphur	TRL447:2005 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 1377-3:1990 (withdrawn)	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			



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Energy Services Laboratories			
COALS, MANUFACTURED SOLID FUELS, COLLIERY SPOILS, PEAT, SOILS and MINERALS	Loss of moisture on air drying	Documented In-House Method SP 1 based on ISO 13909-4:2016	A
	Preparation of general analysis samples	Documented In-House Method SP 2 based on ISO 13909-4:2016	A
	Total moisture content	Documented In-House Methods CA 1 and SP 1 based on ISO 589:2008 and ISO 13909-4:2016	A
	Moisture content of analysis sample	Documented In-House Method CA 2 based on ISO 687:2010 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
	Specific gravity	Documented In-House Method CA 12 based on NCB Analyst Handbook Volume 2:Section 16, July 1958	A
	Crucible swelling number	Documented In-House Method CA 13 based on ISO 501:2012	A
	Caking power by Gray-King coke test	Documented In-House Method CA 14 based on BS 1016-107.2:1991	A
	Chlorine content	Documented In-House Method CA 18 based on ISO 587:1997	A
	Total sulphur content	Documented In-House Method CA 19 based on BS ISO 334:2013	A
Forms of sulphur: Pyritic Organic Sulphate	Documented In-House Method CA 20 based on ISO 157:1996	A	



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COALS, MANUFACTURED SOLID FUELS, COLLIERY SPOILS, PEAT, SOILS and MINERALS	Hardgrove grindability index of hard coal	Documented In-House Method SP 3 based on ASTM D409/D409M	A
	Size analysis	Documented In-House Method SP 8 based on ISO 728:1995, BS ISO 1953:2015 and ISO 2325:1986	A
	Float and sink characteristics	Documented In-House Method SP 12 based on ISO 7936:1992	A
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, PEAT, SOILS and OILS	Calorific value	Documented In-House Method CA 11 based on ISO 1928:2009	A
	Sulphur content	Documented In-House Method CA 31 using Helios analyser	A
COALS, MANUFACTURED SOLID FUELS, COLLIERY SPOILS, PEAT, SOILS, OILS, SEDIMENTS and ORGANIC MATERIALS including ORGANIC CHEMICALS	Carbon, Hydrogen and Nitrogen	Documented In-House Method CA 9 by instrumental analysis using an Exeter Analytical CE 440 analyser 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



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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 and EN ISO 16967:2015 using wavelength dispersive XRF (using Bruker S8 Tiger XRF Analyser)	A
PEAT	Sample preparation	Documented In-House Method SP 6	A
COAL AND COAL POWDER	Major Elemental Oxides	Documented In-House Method CA36: Major Elemental Oxides and Chlorine in Solid Fuels, Solid Biofuels and Solid Recovered Fuels 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 18283:2006	C, D
SOLID BIOFUELS	Manual sampling	Documented In-House Method SP 23 based on EN 14778:2011	D
	Sample preparation	Documented In-House Method SP 19 based on EN 14780:2017	A, E, F, G, H & I
	Particle size distribution	Documented In-House Method SP 8 based on BS EN ISO 15149-1:2016 and 15149-2:2016	A, E, F, G, H & I
	Total moisture	Documented In-House Method SP 20 based on BS EN ISO 18134-1:2015	A & E
	Particle size distribution of disintegrated pellets	Documented In-House Method SP 24 based on BS EN ISO 17830:2016	A



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SOLID BIOFUELS (cont'd)	Bulk density	Documented In-House Method SP 25 based on BS EN ISO 17828:2015	A & E
	Moisture in general analysis sample	Documented In-House Method CA 2 based on BS EN ISO 18134-3:2015	A
	Ash content	Documented In-House Method CA 3 based on BS EN ISO 18122:2015	A
	Volatile matter	Documented In-House Method CA 6 based on BS EN ISO 18123:2015	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
	Mechanical durability of pellets	Documented In-House Method SP 21 based on BS EN ISO 17831-1:2015	A
	Major Elemental Oxides	Documented In-House Method CA36: Major Elemental Oxides and Chlorine using wave dispersive XRF (Bruker S8 tiger XRF Analyser)	A
	Chlorine	Documented In-House Method CA36: Major Elemental Oxides and Chlorine using wave dispersive XRF (Bruker S8 tiger XRF Analyser)	A
Particle size distribution	Documented In-House Method SP8 based on BS EN ISO17827-1:2016 and BS EN ISO 17827-2:2016	A	



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SOLID RECOVERED FUELS	Sample preparation	Documented In-House Method SP 19 based on EN 15443:2011	A, F, G & H
	Total moisture	Documented In-House Method SP 20 based on DD CEN/TS 15414-1:2010	A
	Moisture in general analysis sample	Documented In-House Method CA 2 based on EN 15414-3:2011	A
	Ash content	Documented In-House Method CA 3 based on EN 15403:2011	A
	Volatile matter	Documented In-House Method CA 6 based on EN 15402:2011	A
	Carbon, Hydrogen and Nitrogen	Documented In-House Method CA 9 based on EN 15407:2011	A
	Calorific value	Documented In-House Method CA 11 based on EN 15400:2011	A
	Sulphur content	Documented In-House Method CA 31 based on EN 15408:2011	A
	Biomass content	Documented In-House Method CA 32 based on EN 15440:2011	A
	Chlorine	Documented In-House Method CA36: Major Elemental Oxides and Chlorine using wave dispersive XRF (Bruker S8 tiger XRF Analyser)	A
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	A

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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 1097-2:2010	Lab
	Water content	BS EN 1097-5:2008	Lab



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AGGREGATES (cont'd)	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2013	Lab
	Particle density and water absorption - pyknometer method for aggregate particles between 0,063 mm and 4 mm	BS EN 1097-6:2013	Lab
	Polished stone value	BS EN 1097-8:2009	Lab
	Aggregate abrasion value	BS EN 1097-8:2009	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 594987:2010 Annex H	Lab
	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2012	Lab
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2012	Lab
	Particle size distribution	BS EN 12697-2:2002	Lab



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Maximum density - volumetric procedure	BS EN 12697-5:2009	Lab
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen - by dimensions	BS EN 12697-6:2012	Lab
	Air voids content	BS EN 12697-8:2003	Lab
	Percentage of the voids in the mineral aggregate filled with binder (VFB)	BS EN 12697-8:2003	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 12697-27:2001	Site
	Sampling of laid and compacted materials by coring	BS EN 12697-27:2001	Site
	Sampling coated chippings from stockpiles	BS EN 12697-27:2001	Site
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2001	Lab / Site
Determination of the dimensions of a bituminous sample	BS EN 12697-29:2002	Lab	



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Specimen preparation by impact compactor with wooden pedestal	BS EN 12697-30:2012	Lab
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2003	Lab
	Laboratory mixing	BS EN 12697-35:2004	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
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 12350-1:2009	Site
	Slump	BS EN 12350-2:2009	Site
	Making cubic specimens for strength tests – includes curing	BS EN 12390-2:2009	Lab / Site
	Temperature	Documented In-House Method No DIHM 205	Site
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2009 BS EN 12390-2:2009	Lab
	Density	BS EN 12390-7:2009	Lab
	Shape and Dimensions	BS EN 12390-1:2012	Lab



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CONCRETE – hardened (cont'd)	Taking cores	BS EN 12504-1:2009	Site
	Cored specimens - examining and testing in compression	BS EN 12504-1:2009	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
	Compressive strength - including curing	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 2010 and Scottish 3rd edition: Jan 2015	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



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SOILS for civil engineering purposes (cont'd)	Plasticity index and liquidity index	BS 1377-2:1990	Lab
	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 1377-3:1990 (withdrawn)	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	



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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
	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	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



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Maidstone Laboratory			
CONCRETE - fresh	Curing cubic specimens for strength tests	BS EN 12390-2:2009	Lab
CONCRETE - hardened	Curing cubic specimens for strength tests	BS EN 12390-2:2009	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
End of Maidstone Laboratory			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Newcastle Laboratory			
AGGREGATES	Water content	BS EN 1097-5:2008	Lab
CONCRETE - fresh	Curing cubic specimens for strength tests	BS EN 12390-2:2009	Lab
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2009 BS EN 12390-2:2009	Lab
	Density	BS EN 12390-7:2009	Lab
	Shape and Dimensions	BS EN 12390-1:2012	Lab
MORTARS, SCREEDS and PLASTERS	Compressive strength - including curing	BS 4551-1:1998 (withdrawn)	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
End of Newcastle Laboratory			



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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 12504-1:2009	Site
	Carbonation	BRE Digest 405:May 1995	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	Documented In-House Method No.DIHM 501	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
End of Oldbury Laboratory			

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
St Albans Laboratory			
CONCRETE - hardened	Flexural strengths (first peak, ultimate and residual) of fibre reinforced beam specimens of sprayed concrete	BS EN 14488-3:2006	Lab
	Flexural tensile strength (limit of proportionality (LOP), residual) of metallic fibre concrete	BS EN 14651:2005 + A1:2007	Lab
METALS, ALLOYS and METAL PRODUCTS	Tensile testing <i>(ambient temperature: loads from 5 to 600 kN)</i>	BS EN ISO 6892-1:2016 BS 4A4-1: section 1:1966 (withdrawn)	Lab
	Charpy impact <i>(77 K and 129 K to ambient)</i>	BS EN ISO 148-1:2016	Lab
	Izod impact	BS 131-1:1961	Lab
	Brinell hardness (HBW 1/30)	BS EN ISO 6506-1:2014	Lab
	Vickers hardness (HV10, HV30)	BS EN ISO 6507-1:2005	Lab
	Low force Vickers hardness (HV 0.3, HV0.5, HV1)	BS EN ISO 6507-1:2005	Lab
	Bend	BS EN ISO 7438:2016	Lab
	Case depth	BS 6286:1982 BS EN ISO 2639:2002 BS EN 10328:2005	Lab
Machined surfaces	Metallurgical examination of laser cut surfaces and electro-discharge machined surfaces	Documented In-house Methods E5TP008.1 and E5TP008.2	Lab



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	Carbon and sulphur	Documented In-House Method No E5TP009.5 using combustion and infra-red absorption techniques	Lab
Carbon and low alloy steels	Elemental analysis: C, Si, Mn, S, P, Al, B, Co, Cr, Cu, Mo, Nb, Ni, Pb, Sn, Ti, V, W	Documented In-House Methods No E5TP009.1 and E5TP009.2 using optical emission spectroscopy	Lab
	Elemental analysis: C, Si, Mn, S, P, Ni, Cr, Mo, Cu, V, Nb, Ti, Al, Co, W, Sn, Pb, B, N	Documented In-House Methods No E5TP010.1 and E5TP010.2 using Optical Emission Spectroscopy (OES)	Lab
	Nitrogen	Documented In-House Method No TP15A-MET using inert gas fusion technique	Lab
Stainless steels	Elemental analysis: C, Si, Mn, S, P, Cr, Cu, Mo, Nb, Ni, Ti, V	Documented In-House Methods No E5TP009.1 and E5TP009.3 using optical emission spectroscopy	Lab
	Carbon and sulphur	Documented In-House Method No E5TP009.5 using combustion and infra-red absorption techniques	Lab
	Nitrogen	Documented In-House Method No TP15A - MET using inert gas fusion technique	Lab
Austenitic stainless steels	Accelerated corrosion	BS EN ISO 3651-2:1998 ASTM A262-15, Practice E	Lab
Aluminium alloys	Elemental analysis: Si, Mn, Cr, Cu, Fe, Mg, Ni, Pb, Sn, Ti, Zn, Zr	Documented In-House Methods No E5TP009.1 and E5TP009.4 using optical emission spectroscopy	Lab



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WELDMENTS	Tests designated in specified welding codes:		
Steel and aluminium alloys	Bend, fracture, macro-examination, micro-examination, visual examination	BS EN ISO 5173:2010 +A1: 2011 BS EN ISO 5817: 2014 BS EN ISO 9606-2:2004 BS EN ISO 17637:2016 BS EN ISO 9606-1: 2017 BS EN ISO 9017:2013 BS EN ISO 17639:2013 BS 4872-1:1982(1995) BS 4872-2:1976(1995) BS 7123:1989 (withdrawn)	Lab
Aluminium alloys, magnesium alloys, steels, nickel alloys, copper alloys, titanium alloys	Bend, tensile, micro-examination, visual examination	ABP2-4099 Issue 6 BAe R05-6116 Issue 1 BCAR Subsection A.8 Chapter A8-10	Lab
	Micro-examination, visual examination, bend, fracture and macro-examination	RPS 912 Issue 18 – Sept 2016 ISO 24394:2008 + A1:2012	Lab
Aluminium alloys, magnesium alloys, steels, nickel alloys, titanium alloys	Bend, tensile, micro-examination, visual examination	WHPS 455 Issue 2 - 1989	Lab
Aluminium alloys, cobalt alloys, magnesium alloys, nickel alloys, steels and titanium alloys	Bend, macro-examination, visual examination	ANSI/AWS D17.1/D17.1M:2010	Lab
Carbon steel and stainless-steel reinforcing bars for the reinforcement of concrete	Tensile and rebend up to and including 32 mm diameter	BS 4449:2005 + A3:2016 BS 4449:1997 (withdrawn) BS 6744:2016 BS EN ISO 15630-1:2010	Lab
	Fatigue up to and including 16 mm diameter	BS 4449:2005 + A3:2016 BS 4449:1997 (withdrawn) BS 6744:2016 BS EN ISO 15630-1:2010	Lab
	Projected rib area Relative rib area	BS 4449:2005 + A3:2016 BS 4449:1997 (withdrawn) BS 6744:2016 BS EN ISO 15630-1:2010	Lab



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WELDMENTS (cont'd)	Tests designated in specified welding codes: (cont'd)		
Mechanical splices, (couplers) for reinforcement of concrete	Tensile Determination of permanent offset up to and including 32 mm diameter	Documented In-House Method No TP6-MET	Lab
Welded fabrics for the reinforcement of concrete	Weld shear test	BS EN ISO 15630-2:2010	Lab
Wire rod and wires	Tensile and rebend	BS EN ISO 15630-1:2010	Lab
SLATE	Length and width and the deviation from the specified length and width	BS EN 12326-2:2011	Lab
	Amount by which the edges deviate from a straight edge	BS EN 12326-2:2011	Lab
	Rectangularity of slates	BS EN 12326-2:2011	Lab
	Thickness of individual slates	BS EN 12326-2:2011	Lab
	Deviation from flatness	BS EN 12326-2:2011	Lab
	Modulus of rupture, and characteristic modulus of rupture	BS EN 12326-2:2011	Lab
	Water absorption	BS EN 12326-2:2011	Lab
	Apparent calcium carbonate and non-carbonate carbon content by catalytic thermal decomposition	BS EN 12326-2:2011	Lab
	Sulfur dioxide exposure for slates with a calcium carbonate content less than or equal to 20 %	BS EN 12326-2:2011	Lab
	Thermal cycle	BS EN 12326-2:2011	Lab

End of St Albans Laboratory



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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			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Uxbridge 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
	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 1097-2:2010	Lab
	Water content	BS EN 1097-5:2008	Lab
Frost heave	Specification for Highway Works, HMSO November 2009 Clause 801	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	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 12697-27:2001	Site
	Sampling of workable material in heaps	BS EN 12697-27:2001	Site
	Sampling coated chippings from stockpiles	BS EN 12697-27:2001	Site
BITUMINOUS ROAD SURFACING	In-situ density - nuclear method	Documented In-House Method No DIHM 120 based upon TRRL SR 754:1982	Site
CONCRETE - fresh	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2009	Site
	Slump	BS EN 12350-2:2009	Site
	Flow	BS EN 12350-5:2009	Site
	Density	BS EN 12350-6:2009	Site
	Air content - pressure gauge method	BS EN 12350-7:2009	Site
	Self-compacting concrete - slump-flow test	BS EN 12350-8:2010	Site
	Making cubic specimens for strength tests	BS EN 12390-2:2009	Lab / Site
	Curing cubic specimens for strength tests	BS EN 12390-2:2009	Lab / Site
	Making and curing concrete test specimens in the field	ASTM C31/C31M-12	Lab / 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 (cont'd)	Temperature	Documented In-House Method No DIHM 205	Site
	Compaction Factor	BS 1881 103:1993 (withdrawn)	Site
CONCRETE - hardened	Depth of carbonation	BS 1881-201:1986 (withdrawn)	Site
	Compressive strength of cubes - including curing	BS EN 12390-3:2009 BS EN 12390-2:2009	Lab
	Flexural strength	BS EN 12390-5:2009	Lab
	Density	BS EN 12390-7:2009	Lab
	Shape and Dimensions	BS EN 12390-1:2012	Lab
	Depth of penetration of water under pressure	BS EN 12390-8:2009	Lab
	Taking cores	BS EN 12504-1:2009	Site
	Cored specimens - examining and testing in compression	BS EN 12504-1:2009	Lab
	Use of unbonded caps in determination of compressive strength of hardened concrete cylinders	ASTM C1231/C1231M-12	Lab
	Carbonation	BRE Digest 405:May 1995	Site
	Drilling for dust samples	BRE IP 21/86	Site
	Location of reinforcement	BS 1881-204:1988	Site
	Fibre content of fibre reinforced concrete - hardened sample	BS EN 14488-7:2006 Method A	Lab
	Half-cell potential of uncoated reinforcing steel in concrete	ASTM C876-15	Site
FLOORING	Dampness	BS 8203:2017, Annex B.4	Site
	Soundness	BS 8204-1:2003 + A1:2009 BRE IP 11/84	Site



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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	Skid resistance value	BS 7976-2:2002 + A1:2013	Site
	Drilling of concrete and bituminous cores	Documented In-House Method 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
	Determination of Surface Roughness	DIHM 504 based on the UK Slip Resistance Group Guidelines Issue 4: 2011	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
	Saturation moisture content of chalk	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer	BS 1377-2:1990	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)	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
	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		



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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)	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
	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
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



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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)	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			



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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 12697-5:2009	Lab
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen	BS EN 12697-6:2012	Lab
	Air voids content	BS EN 12697-8:2003	Lab
	Sampling from the material around the augers of the paver	BS EN 12697-27:2001	Site
	Sampling of laid and compacted materials by coring	BS EN 12697-27:2001	Site
	Sampling coated chippings from stockpiles	BS EN 12697-27:2001	Site



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	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
	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 12350-1:2009	Site
	Temperature	Documented In-House Method No DIHM 205	Site
	Slump	BS EN 12350-2:2009	Site
	Flow	BS EN 12350-5:2009	Site
	Making cubic specimens for strength tests	BS EN 12390-2:2009	Lab / Site
	Curing cubic specimens for strength tests	BS EN 12390-2:2009	Lab / Site
	Air content - pressure gauge method	BS EN 12350-7:2009	Lab
	CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2009 BS EN 12390-2:2009
Density		BS EN 12390-7:2009	Lab
Shape and Dimensions		BS EN 12390-1:2012	Lab
Taking cores		BS EN 12504-1:2009	Site
Cored specimens - examining and testing in compression		BS EN 12504-1:2009	Lab
HOT BINDER DISTRIBUTORS for road surface dressing	Uniformity of transverse distribution of binder (depot tray test)	BS 1707:1989	Site



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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
	Particle density - gas jar	BS 1377-2:1990 8.2	Lab
	Particle size distribution - wet sieving	BS 1377-2:1990	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)	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
	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	



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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	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

End of Warrington Laboratory



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Newtown Site Laboratory			
CONCRETE - fresh	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2009	Site Lab
	Slump	BS EN 12350-2:2009	Site Lab
	Making and curing cubic specimens for strength tests	BS EN 12390-2:2009	Site Lab
	Flow	BS EN 12350-5:2009	Site Lab
	Temperature	DIHM 205	Site Lab
CONCRETE - hardened	Density	BS EN 12390-7 :2009	Site Lab
	Taking cores	BS EN 12504-1 :2009 /DIHM 501	Site Lab
	Cored specimens - examining and testing in compression	BS EN 12504-1 :2009	Site Lab
	Compressive strength of cubes	BS EN 12390-3:2009	Site Lab
AGGREGATES	Density	BS EN 12390-7:2009	Site Lab
	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
	Particle size distribution - sieving method	BS EN 933-1:2012	Site Lab
	Water content	BS EN 1097-5:2008	Site Lab
	Uniformity coefficient (221 2217)	BS 6100-2.2.1:1992 (withdrawn)	Site Lab
	Uniformity coefficient	BS EN ISO 14688-2:2004+A1:2013 and SHW Series 600, Table 6/1	Site 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	Site Lab
	Plastic limit	BS 1377-2:1990	Site Lab
	Particle size distribution - wet and dry sieving	BS 1377-2:1990	Site Lab
	Dry density/moisture content relationship (2.5 kg and 4.5kg rammer)	BS 1377-4:1990	Site Lab
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990 BS EN 13286-4:2010	Site Lab
	Moisture condition value (MCV)	BS 1377-4:1990	Site Lab
	Dynamic cone penetrometer	DIHM 302	Site Lab
	In-situ bulk density - nuclear method - comparative tests	BS 1377-9:1990	Site Lab
	Vertical deformation and strength characteristics by the incremental plate loading test	BS 1377-9:1990	Site Lab
	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 Lab
BITUMINOUS MIXTURES for roads and other paved areas	In-situ density - nuclear method	Documented In-House Method No DIHM 120 based upon TRRL SR 754:1982	Site Lab
	Sampling from the material around the augers of the paver	BS EN 12697-27:2001	Site Lab
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2001	Site 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 (cont'd)	Temperature of bituminous mixtures in the hopper of a paver	BS 598-109:1990 (withdrawn)	Site Lab
	Temperature of bituminous mixtures in laid-but-not-rolled material	BS 598-109:1990 (withdrawn)	Site Lab
ROAD PAVEMENT SURFACES	Surface regularity using a rolling straight-edge	DIHM 121, Specification for Highway Works, HMSO November 2016, Clause 702	Site Lab
End of Newtown Site Laboratory			

Heathrow Site Laboratory			
Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE - fresh	Making and curing cubic specimens for strength tests	BS EN 12390-2:2009	Site Lab
CONCRETE - hardened	Making and curing cubic specimens for strength tests	BS EN 12390-2:2009	Site Lab
End of Heathrow Site Laboratory			



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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 12697-1:2012	X
	Particle size distribution	BS EN 12697-2:2002	X
	Maximum density - volumetric procedure	BS EN 12697-5:2009	X
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen	BS EN 12697-6:2012	X



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002	X
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002	X
	Sampling from the material around the augers of the paver	BS EN 12697-27:2001	X
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2001	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 12350-1:2009	X
	Slump	BS EN 12350-2:2009	X
	Flow	BS EN 12350-5:2009	X
	Air content - water column method	BS EN 12350-7:2009	X
	Air content - pressure gauge method	BS EN 12350-7:2009	X
	Making cubic specimens for strength tests	BS EN 12390-2:2009	X
	Curing cubic specimens for strength tests	BS EN 12390-2:2009	X
	Testing sprayed concrete – Fibre content of fibre reinforced concrete	BS EN 14488-7:2006 Method B	X



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2009 BS EN 12390-2:2009	X
	Density	BS EN 12390-7:2009	X
	Shape and Dimensions	BS EN 12390-1:2012	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



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SOILS for civil engineering purposes (cont'd)	Moisture condition value (MCV)	BS 1377-4:1990	X
	MCV - natural moisture content	BS 1377-4:1990	X
	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	



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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



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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
	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, PEAT, SOILS and MINERALS	Loss of moisture on air drying	Documented In-House Method SP1 based on ISO 13909-4:2001	X
	Preparation of general analysis samples	Documented In-House Method SP2 based on ISO 13909-4: 2001	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 687:2010 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 728:1995; ISO 1953:2015 and ISO 2325:1986	X
	Sample preparation	Documented In-House Method SP19 based on EN 14780:2017	X



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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
	Sample preparation	Documented In-House Method SP19 based on EN 14780:2011	X
	Total moisture	Documented In-House Method SP20 based on BS EN ISO 18134-1:2015	X
	Bulk Density	Documented In-House Method SP25 based on BS EN ISO 17828:2015	X
END			