

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING</p> <p>1740</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Mattest Southern Ltd</p> <p>Issue No: 065 Issue date: 17 November 2021</p>	
	<p>Unit 1 Glovers Court Burymead Road Hitchin Hertfordshire SG5 1RT</p>	<p>Contact: Mr J Randall Tel: +44 (0)1462 423040 Fax: +44 (0)7817 241689 E-Mail: jon.randall@mattestsouth.co.uk Website: www.mattestsouth.co.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Unit 1 Glovers Court Burymead Road Hitchin Hertfordshire SG5 1RT</p> <p>Local contact Jon Randall</p>	Management Activities Only	SG5
<p>Address Unit 1 Glovers Court Burymead Road Hitchin Hertfordshire SG5 1RT</p> <p>Local contact Mr S Wilson</p>	Testing: Aggregates: Physical tests Asphalt, bitumen, tar, pitch & bituminous materials: Physical tests Concrete – hardened: Physical tests Soils: Physical tests	SG5
<p>Address 57 Waverley Road Beeches Industrial Estate Yate Bristol BS37 5QR</p> <p>Local contact Mr M Ward</p>	Testing: Aggregates: Mechanical tests; physical tests	BS37
<p>Address Little Hadam Laboratory A120 bypass Tilekiln Farm Little Hadham SG11 2HP</p> <p>Local contact Mr M Naum</p>	Testing: Aggregates: Physical Tests Soils: Physical tests	SG11
<p>Address Coventry Laboratory Unit 8 Hotchkiss Way Binley Industrial Estate Coventry CV3 2RL</p> <p>Local contact Mr J Watson</p>	Testing: Aggregates: Physical Tests Soils: Physical tests	CV3



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
All locations suitable for the activities listed Contact: Mr M Dicker	Aggregates: Sampling Asphalt, bitumen, tar, pitch & bituminous materials: Sampling; physical tests Binder distributors for road surfacing: Physical tests Road pavement surfaces: Physical tests Concrete – fresh: Sampling, Physical tests Soils; Physical tests, Mechanical tests	Site



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES	Sampling 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
	Sample reduction –riffle box	BS EN 932-2:1999	SG5, BS37, SG11 CV3
	Sample reduction - quartering	BS EN 932-2:1999	SG5, BS37, SG11 CV3
	Particle size distribution - sieving method	BS EN 933-1:2012	SG5, BS37 SG11 CV3
	Flakiness index	BS EN 933-3:2012	SG5, BS37 SG11
	Shape index	BS EN 933-4:2008	BS37
	Assessment of fines - sand equivalent test	BS EN 933-8:2012 + A1:2015	BS37
	Assessment of fines -methylene blue test	BS EN 933-9:2009 +A1:2013	BS37
	Constituents of coarse recycled aggregate	BS EN 933-11:2009	BS37
	Micro-Deval coefficient	BS EN 1097-1:2011	BS37
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2020	BS37
	Determination of loose bulk density and voids	BS EN 1097-3:1998	BS37
Water content	BS EN 1097-5:2008	SG5, BS37 SG11 CV3	



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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)	Particle density and water absorption - wire-basket method for aggregate particles between 31,5 mm and 63 mm	BS EN 1097-6:2013	BS37
	Particle density and water absorption - pycnometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2013	BS37
	Particle density and water absorption - pycnometer method for aggregate particles between 0,063 mm and 4 mm	BS EN 1097-6:2013	BS37
	Magnesium sulphate test	BS EN 1367-2:2009	BS37
	Drying shrinkage	BS EN 1367-4:2008	BS37
	Determination of lightweight contaminators	BS EN 1744-1:2009 + A1:2012	BS37
BINDER DISTRIBUTORS for road surfacing	Rate of spread of binder - carpet tile method	BS EN 12272-1:2002	Site
BITUMINOUS MATERIALS	Needle penetration - 25 °C	BS EN 1426:2015	SG5
	Softening point - ring and ball method	BS EN 1427:2015	SG5
BITUMINOUS MIXTURES for roads and other paved areas	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2020	SG5, BS37
	Soluble binder content by Automatic extractor method - B.1.7	BS EN 12697-1:2020	SG5
	Particle size distribution	BS EN 12697-2:2015+A1:2019	SG5, BS37
	Bitumen recovery: rotary evaporator	BS EN 12697-3:2013+A1:2018	SG5



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Maximum density - volumetric procedure	BS EN 12697-5:2018	SG5, BS37
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen (foil) - bulk density by dimensions	BS EN 12697-6:2020	SG5, BS37
	Air voids content	BS EN 12697-8:2018	SG5, BS37
	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002	SG5, BS37
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002 (withdrawn)	SG5, BS37
	Sensitivity to water - method A	BS EN 12697 : Part 12:2018	SG5
	Temperature measurement - Measurement material temperature after it has been laid and before or during rolling - Measurements of temperature in a heap	BS EN 12697-13:2017 Contact thermometer	Site
	Temperature measurement - Measurements of temperature in a heap - Measurements of temperature in a paver hopper	BS EN 12697-13:2017 Infrared-thermometer	Site
	Temperature of bituminous mixtures - in the hopper of a paver	Documented In-House Method: STP1.1 Dec 08	Site
	Binder Drainage - Schellenberg method	BS EN 12697-18:2017	SG5
Wheeltracking (small size device procedures A - conditioned in air)	BS EN 12697-22:2020	SG5	



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Wheeltracking (small size deviceprocedures B - conditioned in air)	BS EN 12697-22:2020	SG5
	Indirect tensile strength	BS EN 12697-23:2017	SG5
	Stiffness - test applying indirect tension to cylindrical specimens (IT-CY)	BS EN 12697-26:2004	SG5
	Sampling - from the material around the augers of the paver - of workable material in heaps	BS EN 12697-27:2017	Site
	Sampling coated chippings from stockpiles	BS EN 12697-27:2017	Site
	Sampling of laid and compacted materials by coring	BS EN 12697-27:2017	Site
	Dimensions of a specimen	BS EN 12697-29:2020	SG5
	Specimen preparation by impact compactor	BS EN 12697-30:2012	SG5
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2018	SG5, BS37
	Marshall test (loads from 2 to 25 kN)	BS EN 12697-34:2020	SG5
	Laboratory mixing	BS EN 12697-35:2016	SG5
	Thickness of a bituminous pavement	BS EN 12697-36:2003	SG5, BS37
	Hot sand test	BS EN 12697-37: 2003	BS37
Protocol for determining the design binder content of designed HRA surface course mixtures (loads 2 to 25kN)	BS 594987:2015 Annex H	SG5	



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Marshall Asphalt Mixture Design	Marshall Asphalt for Airfields, Specification 13, Appendix A - July 2008	SG5
	Retained Marshall Stability Test	Marshall Asphalt for Airfields, Specification 13, Appendix F - July 2008	SG5
BITUMINOUS ROAD SURFACING	In-situ density - dielectric method	Documented In-House Method: B8 Rev:171026, and BS 594987:2015 + A1:2017 Annex I	Site
	Standard Test Method for Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using Automatic Vacuum Sealing Method	ASTM D6752_D6752M-18 VAC Pack	SG5
CONCRETE - fresh	Rate of spread of coated chippings	BS 598-1:2011	Site
	Sampling fresh concrete - composite & spot sample	BS EN 12350-1:2009 BS EN 12350-1:2019	Site
	Slump	BS EN 12350-2:2009 BS EN 12350-2:2019	Site
	Degree of compactability	BS EN 12350-4:2009 BS EN 12350-4:2019	Site
	Flow Table Test	BS EN 12350-5:2009 BS EN 12350-5:2019	Site
	Air content - Pressure method	BS EN 12350-7:2009 BS EN 12350-7:2019	Site
	Self-compacting concrete - slump-flow test	BS EN 12350-8:2009 BS EN 12350-8:2019	Site
	Manufacture of cubic specimens for strength tests	BS EN 12390-2:2009 BS EN 12390-2:2019	SG5 Site
	Manufacture of prisms specimens for strength tests	BS EN 12390-2:2009 BS EN 12390-2:2019	Site



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CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2009 BS EN 12390-3:2019 BS EN 12390-2:2009 BS EN 12390-2:2019 BS EN 12390-1:2021	SG5, BS37, CV3
	Flexural strength of test specimens – Including curing	BS EN 12390-5:2019	SG5
	Density	BS EN 12390-7:2009 BS EN 12390-7:2019	SG5, BS37 CV3
	Cored specimens - taking, examining and testing in compression	BS EN 12504-1:2019	SG5
PAVEMENT SURFACES	Measurement of texture depth by the sand-patch method	BS 598-105:2000	Site
	Measurement of pavement surface macrotexture depth using a volumetric patch	BS EN 13036-1:2010	Site
	Sampling of concrete by coring (vertical only)	BSEN 12504-1:2009	Site
	Surface regularity using a rolling straight-edge	Specification for Highway Works, HMSO May 2016 Clause 702	Site



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SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	SG5, BS37 SG11 CV3
	Liquid limit - cone penetrometer (definitive method)	BS 1377-2:1990	SG5, SG11, CV3
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	SG5, SG11, CV3
	Plastic limit	BS 1377-2:1990	SG5, BS37 SG11 CV3
	Plasticity index and liquidity index	BS 1377-2:1990	SG5, SG11 CV3
	Plasticity index	BS 1377-2:1990	SG11 CV3
	Particle size distribution - wet sieving	BS 1377-2:1990	SG5, BS37 SG11, CV3
	Particle size distribution - dry sieving	BS 1377-2:1990	SG5, BS37 SG11, CV3
	Saturation moisture content of chalk	BS 1377:Part 2:1990	NCL
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	SG5, BS37 SG11 CV3
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	SG5, BS37 CV3
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	SG5, BS37 CV3
	Moisture condition value (MCV)	BS 1377-4:1990	SG5, CV3
California Bearing Ratio (CBR)	BS 1377-4:1990	CV3	
Measurement of swelling of soaked CBR specimen	BS 1377-4:1990	CV3	



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SOILS for civil engineering purposes (cont'd)	MCV - natural moisture content	BS 1377-4:1990	SG5, BS37 SG11, CV3
	In-situ density - sand replacement method (small pouring cylinder)	BS 1377-9:1990	Site
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	Site
	Vertical deformation and strength characteristics by the incremental plate loading test	BS 1377-9:1990	Site
	Determination of equivalent CBR value using the plate bearing test	Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 Rev1	Site
	Dynamic Cone Penetration	Specification for Highway Works: Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 rev1	Site
	Standard Test Method for In- Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D7698-11a	Site
	In-situ Density and Moisture Content using an Electromagnetic Density Gauge	ASTM D7830/D7830M-14	Site
	In-situ density - core cutter method	BS 1377-9:1990	Site
Uniformity coefficient	SHW: Series 600:Table 6- 1:Footnote 5	SG5, BS37 SG11	



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GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014	SG5
	Particle size distribution - sieving method	BS EN ISO 17892-4:2016	SG5
	Determination of liquid limit by the fall cone method	BS EN ISO 17892-12 2018	SG5
	Determination of plastic limit	BS EN ISO 17892-12 2018	SG5
	Plasticity Index and Liquidity Index	BS EN ISO 17892-12 2018	SG5
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	BS37, SG5 CV3
	Test method for determination of the compressive strength of hydraulically bound mixtures	BS EN 13286-41:2003	SG5
	Manufacture of test specimens of hydraulically bound mixtures using vibrating hammer compaction	BS EN 13286-51:2004	SG5, Site
END			