


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>Accredited to ISO/IEC 17025:2017</b>	<b>Simtec Materials Testing Limited</b>	
	<b>Issue No: 014   Issue date: 14 May 2024</b>	
	<b>Unit 116, The Burrows East Goscote Industrial Estate East Goscote LE7 3XD United Kingdom</b>	<b>Contact: Mr Glenn Johnson Tel: +44 (0) 116 3196100 Mob: +44 (0) 7787 445986 E-Mail: glenn.johnson@simtec-mt.co.uk Website: www.simtec-mt.co.uk</b>
<b>Testing performed by the Organisation at the locations specified</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> Units 72, 113, 114 & 116, The Burrows East Goscote Industrial Estate East Goscote LE7 3XD United Kingdom  <b>Local contact</b> Neil Bird / Chris Simmons	Testing: Aggregates – physical tests, Bituminous mixtures – physical tests Concrete – physical & mechanical tests Soils – physical & mechanical tests	Laboratory

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
All locations suitable for the activities listed  <b>Local contact</b> Neil Bird / Chris Simmons	Sampling: Aggregates, Bituminous mixtures & Concrete  Testing: Bituminous Mixtures - physical tests Concrete – physical tests Road Pavement Surfaces – physical tests Soils – physical and 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 from stockpiles	BS EN 932-1:1997	Site
	Sample reduction using a riffle box	BS EN 932-2:1999	Laboratory
	Sample reduction by quartering	BS EN 932-2:1999	Laboratory
	Particle size distribution - sieving method	BS EN 933-1:2012	Laboratory
	Flakiness index	BS EN 933-3:2012	Laboratory
	Classification test for the constituents of coarse recycled aggregate	BS EN 933-11:2009	Laboratory
	Resistance to fragmentation by the Los Angeles method – including Annex A – Railway Ballast	BS EN 1097-2:2020	Laboratory
	Water content	BS EN 1097-5:2008	Laboratory
	Particle density and water absorption - pycnometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6: 2013	Laboratory
	Particle density and water absorption - pycnometer method for aggregates between 0.063 mm and 4 mm	BS EN 1097-6: 2013	Laboratory
	Magnesium Sulphate test	BS EN 1367-2:2009	Laboratory
BITUMINOUS MATERIALS	Uniformity coefficient	BS EN 14688-2:2018	Laboratory
	Needle penetration - 25 °C	BS EN 1426:2015	Laboratory
	Softening point - ring and ball method	BS EN 1427:2015	Laboratory



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BITUMINOUS MATERIALS (cont'd)	Bitumen recovery: rotary evaporator	BS EN 12697-3:2013 +A1:2018	Laboratory
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	Laboratory
	Soluble binder content by difference, using the automatic extractor method	BS EN 12697-1:2020	Laboratory
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2020	Laboratory
	Particle size distribution	BS EN 12697-2:2015 +A1:2019	Laboratory
	Maximum density - volumetric procedure - Calculation	BS EN 12697-5:2018	Laboratory
	Bulk density - dry	BS EN 12697-6:2020	Laboratory
	Bulk density - saturated surface dry (SSD)	BS EN 12697-6:2020	Laboratory
	Bulk density - sealed specimen - by dimensions	BS EN 12697-6:2020	Laboratory
	Air voids content ( $V_m$ )	BS EN 12697-8:2018	Laboratory
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002	Laboratory
	Measurements of temperature of laid materials and in a heap - Contact thermometers	BS EN 12697-13:2017	Site



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Measurements of temperature of materials in a heap and paver hopper - Infrared-thermometer	BS EN 12697-13:2017	Site
	Sampling - from the material around the augers of the paver - of workable material in heaps - of laid and compacted materials by coring	BS EN 12697-27:2017	Site
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2020	Laboratory Site
	Determination of the dimensions of a bituminous sample	BS EN 12697-29:2020	Laboratory
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2019	Laboratory
	Thickness of a bituminous pavement - destructive method	BS EN 12697-36:2022	Laboratory
	Rate of spread of binder - carpet tile method	BS EN 12272-1:2002	Site
	Rate of spread of chippings for mechanical chipping spreaders	BS 598-1:2011	Site
	Texture depth by the sand-patch method	BS 598-105:2000	Site
	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	Site
ROAD PAVEMENT SURFACES			



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ROAD PAVEMENT SURFACES (cont'd)	Surface regularity using a rolling straight-edge	TRRL Supplementary Report 290:1977	Site
	Core Logging	Design Manual for Roads and Bridges, CS 229 Revision 0, March 2020	Laboratory
BITUMINOUS ROAD SURFACING	In-situ density - non-nuclear method	BS EN 594987 Annex I Documented In-house Method TPSM001	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 and curing specimens for strength tests	BS EN 12390-2:2019	Laboratory Site
	Flow table test	BS EN 12350-5:2019	Laboratory Site
	Air content - pressure gauge method	BS EN 12350-7:2019	Laboratory Site
CONCRETE - hardened	Taking cores	BS EN 12504-1:2019	Site
	Compressive strength of cubes - including curing	BS EN 12390-3:2019 BS EN 12390-1:2021 BS EN 12390-2:2019	Laboratory
	Density	BS EN 12390-7:2019+AC 2020	Laboratory
	Cored specimens - examining and testing in compression	BS EN 12504-1:2019	Laboratory
SOILS for civil engineering purposes	Relative compaction	BS 1377-1:2016	Laboratory
	Percentage air voids (Va)	BS 1377-1:2016	



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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)	Moisture content - oven drying method	BS 1377-2:1990	Laboratory
	Liquid limit - cone penetrometer	BS 1377-2:1990	Laboratory
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Laboratory
	Plastic limit	BS 1377-2:1990	Laboratory
	Plasticity index	BS 1377-2:1990	Laboratory
	Linear Shrinkage	BS 1377-2:1990	
	Particle density - gas jar	BS 1377:Part 2:1990	Laboratory
	Particle size distribution - wet and dry sieving	BS 1377-2:1990	Laboratory
	Particle size distribution – fine grained soil – hydrometer method	BS 1377-2:1990	Laboratory
	Particle size distribution – sedimentation – pipette method	BS 1377-2:1990	Laboratory
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	Laboratory
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	Laboratory
	Moisture condition value (MCV)	BS 1377-4:1990	Laboratory
	MCV - natural moisture content	BS 1377-4:1990	Laboratory
	MCV - moisture content relation	BS 1377-4:1990	Laboratory



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SOILS for civil engineering purposes (cont'd)	California Bearing Ratio (CBR)	BS 1377:Part 4:1990	Laboratory
	Measurement of swelling of soaked CBR specimen	BS 1377:Part 4:1990	Laboratory
	Undrained shear strength - triaxial compression without measurement of pore pressure – definitive method	BS 1377:Part 7:1990	Laboratory
	Undrained shear strength - triaxial compression without measurement of pore pressure – multi-stage method	BS 1377:Part 7:1990	Laboratory
	Undrained shear strength of remoulded cohesive material	Manual of Contract Documents for Highway Works, Specification for Highway Works Clause 633, February 2016	Laboratory
	In-situ density - sand replacement method (small pouring cylinder)	BS 1377-9:1990	Site
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	Site
	In-situ density - core cutter method	BS 1377-9:1990	Site
	In-situ bulk density - nuclear method - compliance tests	BS 1377:Part 9:1990	Site
	In-situ bulk density - nuclear method - absolute tests	BS 1377:Part 9:1990	Site
	In-situ bulk density - nuclear method - comparative tests	BS 1377:Part 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
	In-situ California Bearing Ratio (CBR)	BS 1377-9:1990	Site
	Hand shear vane	New Zealand Geotechnical Society Inc August 2001	Site
	Calculation of nominal CBR value using the plate bearing test	Design Guidance for Road Pavement Foundations Interim Advice Note 73/06	Site
	Calculation of nominal CBR value using the Dynamic cone penetrometer test (DCP)	Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 Documented In-House Method TPSM022	Site
	Calculation of nominal CBR value using the Dynamic cone penetrometer test (DCP)	Design Manual for Roads and Bridges CS229 Revision 1, Documented In-house Method TPSM022	Site
UNBOUND and HYDRAULICALLY BOUND MIXTURES	In-Place Density (Unit Weight) and Water Content of Soil Using an Electromagnetic Soil Density Gauge	ASTM D7830/D7830M – 14	Site
	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	Laboratory
	California bearing ratio, immediate bearing index and linear swelling	BS EN 13286-47:2021	Laboratory
	Manufacture of test specimens of hydraulically bound mixtures using vibrating hammer compaction	BS EN 13286-51:2004	Laboratory



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UNBOUND and HYDRAULICALLY BOUND MIXTURES (cont'd)	Curing of hydraulically bound mixtures	BS EN 14227-1:2004	Laboratory
END			