


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>10108</b></p> <p>Accredited to <b>ISO/IEC 17025:2017</b></p>	<h3>Simtec Materials Testing Limited</h3> <p>Issue No: 016    Issue date: 13 January 2025</p>	
	<p><b>Unit 116, The Burrows</b>  <b>East Goscote Industrial Estate</b>  <b>East Goscote</b>  <b>LE7 3XD</b>  <b>United Kingdom</b></p>	<p><b>Contact: Mr Don Strang</b>  <b>Tel: +44 (0) 116 3196100</b>  <b>Mob: +44 (0) 7787 445986</b>  <b>E-Mail: don@simtec-mt.co.uk</b>  <b>Website: www.simtec-mt.co.uk</b></p>
<p><b>Testing performed by the Organisation at the locations specified</b></p>		

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

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b>  Units 72, 113, 114 &amp; 116, The Burrows  East Goscote Industrial Estate  East Goscote  LE7 3XD  United Kingdom</p> <p><b>Local contact</b>  Don Strang</p>	<p>Testing:  Aggregates – physical tests,  Bituminous mixtures – physical tests  Concrete – physical &amp; mechanical tests  Soils – physical &amp; mechanical tests</p>	Leicester
<p><b>Address</b>  31 Wimbledon Avenue  Brandon  Suffolk</p> <p><b>Local contact</b>  Don Strang / Jade Leonard</p>	<p>Testing:  Aggregates – physical tests,  Concrete – physical &amp; mechanical tests  Soils – physical tests</p>	Brandon

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

Location details	Activity	Location code
<p>All locations suitable for the activities listed</p> <p><b>Local contact</b>  Don Strang  - General enquires  Toby Wdgley  -Soils / Earthworks  James Fawcett  – Bituminous Materials</p>	<p>Sampling:  Aggregates, Bituminous mixtures &amp; Concrete</p> <p>Testing:  Bituminous Mixtures - physical tests  Concrete – physical tests  Road Pavement Surfaces – physical tests  Soils – physical and mechanical tests</p>	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	Leicester Brandon
	Sample reduction by quartering	BS EN 932-2:1999	Leicester Brandon
	Particle size distribution - sieving method	BS EN 933-1:2012	Leicester Brandon
	Flakiness index	BS EN 933-3:2012	Leicester
	Classification test for the constituents of coarse recycled aggregate	BS EN 933-11:2009	Leicester
	Resistance to fragmentation by the Los Angeles method – including Annex A – Railway Ballast	BS EN 1097-2:2020	Leicester
	Water content	BS EN 1097-5:2008	Leicester Brandon
	Particle density and water absorption - pycnometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6: 2013	Leicester
	Particle density and water absorption - pycnometer method for aggregates between 0.063 mm and 4 mm	BS EN 1097-6: 2013	Leicester
	Magnesium Sulphate test	BS EN 1367-2:2009	Leicester
Uniformity coefficient	BS EN 14688-2:2018	Leicester	
BITUMINOUS MATERIALS	Needle penetration - 25 °C	BS EN 1426:2015	Leicester
	Softening point - ring and ball method	BS EN 1427:2015	Leicester



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BITUMINOUS MATERIALS (cont'd)	Bitumen recovery: rotary evaporator	BS EN 12697-3:2013 +A1:2018	Leicester
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	Leicester
	Soluble binder content by difference, using the automatic extractor method	BS EN 12697-1:2020	Leicester
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2020	Leicester
	Particle size distribution	BS EN 12697-2:2015 +A1:2019	Leicester
	Maximum density - volumetric procedure - Calculation	BS EN 12697-5:2018	Leicester
	Bulk density - dry	BS EN 12697-6:2020	Leicester
	Bulk density - saturated surface dry (SSD)	BS EN 12697-6:2020	Leicester
	Bulk density - sealed specimen - by dimensions	BS EN 12697-6:2020	Leicester
	Air voids content ( $V_m$ )	BS EN 12697-8:2018	Leicester
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002	Leicester
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	Leicester Site
	Determination of the dimensions of a bituminous sample	BS EN 12697-29:2020	Leicester
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2019	Leicester
	Thickness of a bituminous pavement - destructive method	BS EN 12697-36:2022	Leicester
	Rate of spread of binder - carpet tile method	BS EN 12272-1:2002	Site
ROAD PAVEMENT SURFACES	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
	Surface regularity using a rolling straight-edge	TRRL Supplementary Report 290:1977	Site



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ROAD PAVEMENT SURFACES (cont'd)	Core Logging	Design Manual for Roads and Bridges, CS 229 Revision 0, March 2020	Leicester
BITUMINOUS ROAD SURFACING	In-situ density - non-nuclear method	BS EN 594987 Annex I Documented In-house Method TPSP001	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	Leicester Site
	Flow table test	BS EN 12350-5:2019	Leicester Site
	Air content - pressure gauge method	BS EN 12350-7:2019	Leicester Site
	Self-compacting concrete – L-box test	BS EN 12350-10:2010	Site
	Bauer Filtration Test	CIA Z17:2012	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	Leicester Brandon
	Density	BS EN 12390-7:2019+AC 2020	Leicester Brandon
	Cored specimens - examining and testing in compression	BS EN 12504-1:2019	Leicester



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<b>GEOTECHNICAL INVESTIGATION and TESTING</b> - Laboratory testing of soil	Water content – oven drying method	BS EN ISO 17892-1:2014	Brandon
	Particle size distribution - wet sieving	BS EN ISO 17892-4:2016	Brandon
	Particle size distribution - dry sieving	BS EN ISO 17892-4:2016	Brandon
	Liquid limit - cone penetrometer	BS EN ISO 17892-12:2018 +A1:2021	Brandon
	Liquid limit - cone penetrometer - one point	BS EN ISO 17892-12:2018 +A1:2021	Brandon
	Plastic limit	BS EN ISO 17892-12:2018 +A1:2021	Brandon
	Plasticity index	BS EN ISO 17892-12:2018 +A1:2021	Brandon
<b>SOILS for civil engineering purposes</b>	Relative compaction	BS 1377-1:2016	Leicester
	Percentage air voids (Va)	BS 1377-1:2016	Leicester
	Moisture content - oven drying method	BS 1377-2:1990	Leicester
	Liquid limit - cone penetrometer	BS 1377-2:1990	Leicester
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Leicester
	Plastic limit	BS 1377-2:1990	Leicester
	Plasticity index	BS 1377-2:1990	Leicester
	Linear Shrinkage	BS 1377-2:1990	Leicester
	Particle density - gas jar	BS 1377:Part 2:1990	Leicester



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SOILS for civil engineering purposes (cont'd)	Particle size distribution - wet and dry sieving	BS 1377-2:1990	Leicester
	Particle size distribution – fine grained soil – hydrometer method	BS 1377-2:1990	Leicester
	Particle size distribution – sedimentation – pipette method	BS 1377-2:1990	Leicester
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	Leicester
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	Leicester
	Moisture condition value (MCV)	BS 1377-4:1990	Leicester
	MCV - natural moisture content	BS 1377-4:1990	Leicester
	MCV - moisture content relation	BS 1377-4:1990	Leicester
	California Bearing Ratio (CBR)	BS 1377:Part 4:1990	Leicester
	Measurement of swelling of soaked CBR specimen	BS 1377:Part 4:1990	Leicester
	Undrained shear strength - triaxial compression without measurement of pore pressure – definitive method	BS 1377:Part 7:1990	Leicester
	Undrained shear strength - triaxial compression without measurement of pore pressure – multi-stage method	BS 1377:Part 7:1990	Leicester
	Undrained shear strength of remoulded cohesive material	Manual of Contract Documents for Highway Works, Specification for Highway Works Clause 633, February 2016	Leicester



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SOILS for civil engineering purposes (cont'd)	Water content – oven drying method	BS 1377-2:2022	Brandon
	Particle size distribution - wet sieving	BS 1377-2:2022	Brandon
	Particle size distribution - dry sieving	BS 1377-2:2022	Brandon
	MCV – natural water content	BS 1377-2:2022	Brandon
	Liquid limit - cone penetrometer method	BS 1377-2:2022	Brandon
	Liquid limit - one point cone penetrometer method	BS 1377-2:2022	Brandon
	Plastic limit	BS 1377-2:2022	Brandon
	Plasticity index	BS 1377-2:2022	Brandon
	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
	In-Place Density (Unit Weight) and Water Content of Soil Using an Electromagnetic Soil Density Gauge	ASTM D7830/D7830M – 14	Site
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2021	Leicester
	California bearing ratio, immediate bearing index and linear swelling	BS EN 13286-47:2021	Leicester
	Manufacture of test specimens of hydraulically bound mixtures using vibrating hammer compaction	BS EN 13286-51:2004	Leicester



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UNBOUND and HYDRAULICALLY BOUND MIXTURES (cont'd)	Curing of hydraulically bound mixtures	BS EN 14227-1:2013er	Leicester
END			