Schedule of Accreditation

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Simtec Materials Testing Limited

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Testing performed by the Organisation at the locations specified

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Units 72, 113, 114 & 116, The Burrows East Goscote Industrial Estate East Goscote LE7 3XD United Kingdom	**Local contact** Don Strang	Testing: Aggregates – physical tests, Bituminous mixtures – physical tests Concrete – physical & mechanical tests Soils – physical & mechanical tests	Leicester
Address 31 Wimbledon Avenue Brandon Suffolk	**Local contacts** Don Strang / Jade Leonard	Testing: Aggregates – physical tests, Concrete – physical & mechanical tests Soils – physical tests	Brandon
Address 49 Brunel Road London W3 7XR	**Local contacts** Don Strang / Moshiur Islam	Testing: Concrete – physical & mechanical tests	Acton

Site activities performed away from the locations listed above:

Location details		Activity	Location code
All locations suitable for the activities listed	**Local contact** Don Strang - General enquires Toby Wdgley -Soils / Earthworks James Fawcett – Bituminous Materials	Sampling: Aggregates, Bituminous mixtures & Concrete Testing: Bituminous Mixtures - physical tests / Concrete – physical tests / Road Pavement Surfaces – physical tests / Soils – physical and mechanical tests	Site

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 - pyknometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6: 2013	Leicester
	Particle density and water absorption - pyknometer 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

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	Needle penetration - 25 °C	BS EN 1426:2015	Leicester
	Softening point - ring and ball method	BS EN 1427:2015	Leicester
	Bitumen recovery: rotary evaporator	BS EN 12697-3:2013 +A1:2018	Leicester
	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

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)	Measurements of temperature of laid materials and in a heap - Contact thermometers	BS EN 12697-13:2017	Site
	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ROAD PAVEMENT SURFACES (cont'd)	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
	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 TPSM001	Site
	In-situ density (compacted density) - using indirect density gauges - nuclear method	BS 594987:2024 Annex I DIHM TPSM055	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
	Density	BS EN 12350-6:2019	Acton Site
	Air content - pressure gauge method	BS EN 12350-7:2019	Leicester Site
	Slump flow	BS EN 12350-8:2019	Acton Site

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE – fresh (cont'd)	V-funnel	BS EN 12350-9:2010	Acton Site
	Sieve segregation	BS EN 12350-11:2010	Acton Site
	Self-compacting concrete – L-box test	BS EN 12350-10:2010	Site
	Bauer filtration test	CIA Z17:2012	Site
	Standard test method for bleeding of concrete	ASTM C232/C232M-21	Acton 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 Acton
	Density	BS EN 12390-7:2019+AC 2020	Leicester Brandon Acton
	Flexural strength	BS EN 12390-5:2019	Leicester Acton
	Tensile splitting strength	BS EN 12390-6:2023	Leicester Acton
	Cored specimens - examining and testing in compression	BS EN 12504-1:2019	Leicester
	Determination of initial surface absorption	BS 1881-208:1996	Leicester
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content – oven drying method	BS EN ISO 17892-1:2014	Leicester Brandon
	Particle size distribution - wet sieving	BS EN ISO 17892-4:2016	Leicester Brandon

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil (cont'd)	Particle size distribution - dry sieving	BS EN ISO 17892-4:2016	Leicester Brandon
	Particle size distribution - hydrometer method	BS EN ISO 17892-4:2016	Leicester
	Liquid limit - cone penetrometer	BS EN ISO 17892-12:2018 +A1:2021	Leicester Brandon
	Liquid limit - cone penetrometer - one point	BS EN ISO 17892-12:2018 +A1:2021	Leicester Brandon
	Plastic limit	BS EN ISO 17892-12:2018 +A1:2021	Leicester Brandon
	Plasticity index	BS EN ISO 17892-12:2018 +A1:2021	Leicester Brandon
	Unconsolidated, undrained triaxial compression	BS EN ISO 17892-8:2018	Leicester
PILED FOUNDATIONS	Pile integrity by low strain impact testing	ASTM D5882-16	Site
SOILS for civil engineering purposes	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

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)	Linear Shrinkage	BS 1377-2:1990	Leicester
	Particle density - gas jar	BS 1377:2:1990	Leicester
	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

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)	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
	Water content – oven drying method	BS 1377-2:2022	Leicester Brandon
	Particle size distribution - wet sieving	BS 1377-2:2022	Leicester Brandon
	Particle size distribution - dry sieving	BS 1377-2:2022	Leicester Brandon
	Particle size distribution - hydrometer method	BS 1377-2:2022	Leicester
	MCV – natural water content	BS 1377-2:2022	Leicester Brandon
	MCV - moisture content / mcv relationship	BS 1377-2:2022	Leicester
	Liquid limit - cone penetrometer method	BS 1377-2:2022	Leicester Brandon
	Liquid limit - one point cone penetrometer method	BS 1377-2:2022	Leicester Brandon
	Plastic limit	BS 1377-2:2022	Leicester Brandon
	Plasticity index	BS 1377-2:2022	Leicester Brandon
	Particle density - gas jar method	BS 1377-2:2022	Leicester

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes (cont'd)	Dry density / moisture content relationship 2.5 kg rammer -	BS 1377-2:2022	Leicester
	Dry density / moisture content relationship4.5 kg rammer	BS 1377-2:2022	Leicester
	Dry density / moisture content relationship - vibrating hammer	BS 1377-2:2022	Leicester
	CBR value (including soaking)	BS 1377-2:2022	Leicester
	Unconsolidated, undrained triaxial compression	BS 1377-2:2022	Leicester
	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
	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

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)	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
	Curing of hydraulically bound mixtures	BS EN 14227-1:2013er	Leicester
END			