Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

10108

Accredited to ISO/IEC 17025:2017

Simtec Materials Testing Limited

Issue No: 023 **Issue date:** 17 July 2026

Unit 116, The Burrows
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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 / Lee Harbottle	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 / Lee Harbottle	Testing: Aggregates – physical tests, Concrete – physical & mechanical tests Soils – physical tests	Brandon
Address 2 Steeple Road Industrial Estate Antrim Co Antrim Northern Ireland BT41 1AB	**Local contact** Ian Nichol / Don Strang Tel: +44 (0)28 9446 9191	Testing: Soils and Aggregates - physical and mechanical tests; Bituminous Mixtures – physical and mechanical tests; Concrete - mechanical & physical tests; Unbound and hydraulically bound mixtures - mechanical tests	Antrim
Address 295A Moorlough Road Drumclay Newtownbutler Co Fermanagh BT92 8BJ	**Local contact** Mr D Jordan Tel: +44 (0)28 67737805	Laboratory testing	Newtown Butler

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Testing performed by the Organisation at the locations specified

Location details		Activity	Location code
Address Cloghvoley Kilkelly, Co. Mayo F35 Y184 Ireland	**Local contact** Mr S Gibbons Tel: +44 (0)28 67737805	Laboratory testing	Kilkelly

Site activities performed away from the locations listed above:

All locations suitable for the activities listed	**Local contact** Don Strang - General enquires Toby Wigley -Soils / Earthworks Craig Reader – Bituminous Materials Ian Nichol - Antrim	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
	Methods for reducing laboratory samples - using a riffle box - reduction by quartering - to a test portion of a specified mass within a small tolerance	BS EN 932-2:1999	Leicester Brandon Antrim Newtownbutler Site
	Particle size distribution - sieving method	BS EN 933-1:2012	Leicester Brandon Antrim Newtownbutler
	Flakiness index	BS EN 933-3:2012	Leicester Antrim Newtownbutler
	Assessment of fines - methylene blue test	BS EN 933-9: 2022	Antrim Newtownbutler
	Classification test for the constituents of coarse recycled aggregate	BS EN 933-11:2009	Leicester Antrim
	Micro-Deval coefficient - including Annex A - Railway Ballast	BS EN 1097-1:2023	Antrim Newtownbutler
	Resistance to fragmentation by the Los Angeles method – including Annex A – Railway Ballast	BS EN 1097-2:2020	Leicester Antrim Newtownbutler
	Loose bulk density	BS EN 1097-3:1998	Antrim Newtownbutler
	Apparent (bulk) density of filler in kerosene	BS EN 1097-3:1998	Antrim

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES (cont'd)	Water content	BS EN 1097-5:2008	Leicester Brandon Antrim Newtownbutler
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6: 2022	Leicester Antrim Newtownbutler
	Particle density and water absorption - pyknometer method for aggregates between 0.063 mm and 4 mm	BS EN 1097-6: 2022	Leicester Antrim Newtownbutler
	Polished stone value	BS EN 1097-8:2020	Antrim Newtownbutler
	Aggregate abrasion value	BS EN 1097-8:2020	Antrim Newtownbutler
	Magnesium sulphate test	BS EN 1367-2:2009	Leicester Newtownbutler
	Magnesium sulfate test (Including Annex B & C)	BS EN 1367-2:2009	Antrim
	Aggregate crushing value - particle size 10 mm and greater	BS 812-110:1990	Antrim
	Ten per cent fines value - dry - particle size 10 mm and greater	BS 812-111:1990	Antrim
	Ten per cent fines value - soaked - particle size 10 mm and greater	BS 812-111:1990	Antrim
	Aggregate impact value - dry	BS 812-112:1990	Antrim
	Aggregate impact value - soaked	BS 812-112:1990	Antrim

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES (cont'd)	Uniformity coefficient	BS EN 14688-2:2018	Leicester
	Water soluble sulfates in natural and manufactured aggregates	BS EN 1744-1:2009 + A1:2012	Newtownbutler
	Total sulfur content by acid digestion	BS EN 1744-1:2009 + A1:2012	Newtownbutler
	Acid soluble sulfates	BS EN 1744-1:2009 + A1:2012	Newtownbutler
	Calculation of total potential sulfate	Transport Infrastructure Ireland Specification for Road Works Clause 643	Newtownbutler
	Calculation of oxidisable sulfide	Transport Infrastructure Ireland Specification for Road Works Clause 643	Newtownbutler
BITUMINOUS MIXTURES for roads and other paved areas	Needle penetration - 25 °C	BS EN 1426:2024	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 Newtownbutler
	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

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)	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 2 and volume calculation	BS EN 12697-1:2020	Newtownbutler
	Particle size distribution	BS EN 12697-2:2015 +A1:2019	Leicester
	Particle size distribution	BS EN 12697-2:2024	Newtownbutler Kilkelly
	Maximum density - volumetric procedure - calculation	BS EN 12697-5:2018	Leicester
	Maximum density - volumetric procedure	BS EN 12697-5:2018	Newtownbutler
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen - by dimensions	BS EN 12697-6:2020	Leicester
	Bulk density - saturated surface dry (SSD)	BS EN 12697-6:2020	Newtownbutler
	Void characteristics of bituminous specimens - air voids content	BS EN 12697-8:2018	Leicester Newtownbutler
	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
	Measurements of temperature of materials in a heap and paver hopper - Infrared-thermometer	BS EN 12697-13:2017	Site

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)	Sampling - from the material around the augers of the paver - of workable material in heaps - of laid and compacted materials by coring - coated chippings from stockpiles	BS EN 12697-27:2017	Site
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2020	Leicester Antrim Newtownbutler Kilkelly 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 Newtownbutler
	Binder content by ignition - method A	BS EN 12697-39:2020	Kilkelly
	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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	Leicester
BITUMINOUS ROAD SURFACING	In-situ density - non-nuclear method	BS 594987:2024 Annex I DIHM TPSM001	Site
	In-situ density (compacted density) - using indirect density gauges - nuclear method	BS 594987:2024 Annex I DIHM TPSM055	Site
SURFACES	Skid resistance value	BS 7976-2:2002 + A1:2013	Site
	Determining the slip resistance of pedestrian surfaces – method evaluation	BS EN 16165:2021 Annex C	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 Antrim Site
	Density	BS EN 12350-6:2019	Site
	Air content - pressure gauge method	BS EN 12350-7:2019	Leicester Site

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE - fresh (cont'd)	Slump flow	BS EN 12350-8:2019	Site
	V-funnel	BS EN 12350-9:2010	Site
	Sieve segregation	BS EN 12350-11:2010	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	Site
	Test method for metallic fibre concrete. Method B, Fibre content in fresh concrete	BS EN 14721:2005+A1:2007	Antrim
CONCRETE - hardened	Taking cores	BS EN 12504-1:2019	Site
	Compressive strength of cubes - including shape, dimension and curing	BS EN 12390-3:2019 BS EN 12390-1:2021 BS EN 12390-2:2019	Leicester Brandon Antrim Newtownbutler Kilkelly
	Density	BS EN 12390-7:2019+AC 2020	Leicester Brandon Antrim Newtownbutler Kilkelly
	Flexural strength	BS EN 12390-5:2019	Leicester
	Tensile splitting strength	BS EN 12390-6:2023	Leicester
	Cored specimens - examining and testing in compression	BS EN 12504-1:2019	Leicester Antrim Newtownbutler
	Water absorption	BS 1881-122:2011+A1:2020	Antrim

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE - hardened (cont'd)	Initial surface absorption	BS 1881-208:1996	Leicester
	Drilling for Dust Samples	BRE IP 21/86	Site
	Measurement of carbonation depth	BS EN 14630:2006	Site
CONCRETE - hardened, reinforced	Corrosion potential of uncoated reinforcing steel in concrete	ASTM C876-22b	Site
	Location of Reinforcement	BS 1881:Part 204:1988	Site
	Resistivity of Concrete	DIHM - TPSM057	Site
	Visual and Hammer Survey	DIHM - TPSM056	Site
PILED FOUNDATIONS	Pile integrity by low strain impact testing	ASTM D5882-16	Site
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content – oven drying method	BS EN ISO 17892-1:2014 +A1:2022	Leicester Brandon Antrim Newtownbutler
	Particle size distribution - wet sieving	BS EN ISO 17892-4:2016	Leicester Brandon Antrim Newtownbutler
	Particle size distribution - dry sieving	BS EN ISO 17892-4:2016	Leicester Brandon Antrim Newtownbutler
	Particle size distribution - hydrometer method	BS EN ISO 17892-4:2016	Leicester
	Shear strength by direct shear - large shearbox apparatus	BS EN ISO 17892-10:2018	Newtownbutler

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)	Liquid limit - fall cone method	BS EN ISO 17892-12:2018 +A2:2022	Leicester Brandon Antrim Newtownbutler
	Liquid limit - fall cone method - one point	BS EN ISO 17892-12:2018 + A2:2022	Leicester Brandon Antrim Newtownbutler
	Plastic limit	BS EN ISO 17892-12:2018 + A2:2022	Leicester Brandon Antrim Newtownbutler
	Plasticity index	BS EN ISO 17892-12:2018 + A2:2022	Leicester Brandon Antrim Newtownbutler
	Unconsolidated, undrained triaxial compression	BS EN ISO 17892-8:2018	Leicester
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 Antrim Newtownbutler
	Liquid limit - cone penetrometer	BS 1377-2:1990	Leicester Newtownbutler
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Leicester Newtownbutler
	Plastic limit	BS 1377-2:1990	Leicester Newtownbutler

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)	Plasticity index	BS 1377-2:1990	Leicester Newtownbutler
	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 Newtownbutler
	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 Antrim
	MCV - moisture content relation	BS 1377-4:1990	Leicester
	California Bearing Ratio (CBR) Measurement of swelling of soaked CBR specimen	BS 1377-4:1990 BS 1377-4:1990	Leicester Leicester
	Undrained shear strength - triaxial compression without measurement of pore pressure – definitive method	BS 1377-7:1990	Leicester
	Undrained shear strength - triaxial compression without measurement of pore pressure – multi-stage method	BS 1377-7:1990	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 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 Antrim
	Particle size distribution - wet sieving	BS 1377-2:2022	Leicester Brandon Antrim
	Particle size distribution - dry sieving	BS 1377-2:2022	Leicester Brandon Antrim
	Uniformity coefficient	Specification for Highway Works Series 600 Table 6/1 Footnote 5	Antrim Newtownbutler
	Particle size distribution - hydrometer method	BS 1377-2:2022	Leicester
	Liquid limit - cone penetrometer method	BS 1377-2:2022	Leicester Brandon Antrim
	Liquid limit - one point cone penetrometer method	BS 1377-2:2022	Leicester Brandon Antrim
	Plastic limit	BS 1377-2:2022	Leicester Brandon Antrim
	Plasticity index	BS 1377-2:2022	Leicester Brandon Antrim
	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 / water content relationship - 2.5 kg rammer	BS 1377-2:2022	Leicester Antrim Newtownbutler
	Dry density / water content relationship - 4.5 kg rammer	BS 1377-2:2022	Leicester Antrim Newtownbutler
	Dry density / water content relationship - vibrating hammer	BS 1377-2:2022	Leicester Antrim Newtownbutler
	MCV – natural water content	BS 1377-2:2022	Leicester Brandon Antrim Newtownbutler Site
	MCV - water content / mcv relationship	BS 1377-2:2022	Leicester Antrim
	CBR value (including soaking)	BS 1377-2:2022	Leicester
	Unconsolidated, undrained triaxial compression	BS 1377-2:2022	Leicester
	Shear strength by direct shear - large shearbox apparatus	BS 1377-2:2022	Newtownbutler
	Effective angle of internal friction and effective cohesion of earthworks materials	Specification for Highway Works, HMSO February 2016: clause 636 using large shearbox	Newtownbutler
	Coefficient of friction and adhesion between fill and reinforcing elements or anchor elements for reinforced soils and anchored earth structures	Specification for Highway Works, HMSO February 2016: clause 639 using large shearbox	Newtownbutler

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 - 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 1377-9:1990	Site
	In-situ bulk density - nuclear method - absolute tests	BS 1377-9:1990	Site
	In-situ bulk density - nuclear method - comparative 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
	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

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)	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
	Compressive strength of cubic specimens	BS EN 13286-41:2021	Newtownbutler Kilkelly
	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 14227-1:2013	Leicester
ROCK	Slake-durability index of shales and other similar weak rocks	ASTM D 4644-16	Newtownbutler
	Slake durability index	The Complete ISRM Suggested Methods for Rock Characterisation, Testing and Monitoring: 1974-2006. Editors: R Ulusay & J A Hudson	Newtownbutler
END			