


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 9447 Accredited to ISO/IEC 17025:2017	Wills Bros. Civil Engineering Limited	
	Issue No: 009 Issue date: 15 December 2021	
	Maxim 3, Floor 2, Suite 1 Parklands Avenue Eurocentral Motherwell ML1 4WQ	Contact: Mr E. McDermott Tel: +44 (0) 1698 479 230 E-Mail: eddiemcdermott@willsbros.com Website: willsbros.com
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Wills Bros. Civil Engineering Limited is accredited for a flexible scope that enables them to establish site laboratories to conduct the activities detailed below marked 'Flexi', in accordance with their documented in-house procedure: DTP No. SC5.

Laboratory locations:

Location details	Activity	Location code
Address Material Testing Laboratory Unit 28 – Block 6 Chapelhall Industrial Estate Airdrie ML6 8QH Contact: Mr E. McDermott Tel: +44 (0)7867 341 257 Email: eddiemcdermott@willsbros.com	Aggregates, bituminous mixtures, concrete, road pavement surfaces & soils	A
Address A6 Site Laboratory 383 Foreglen Road Dungiven BT47 3PL Contact: Mr E. McDermott Tel: +44 (0)7867 341 257 Email: eddiemcdermott@willsbros.com	Aggregates, bituminous mixtures, concrete, road pavement surfaces & soils	B
Address A77 Maybole Bypass Alloway Road Maybole KA19 8DH Contact: Mr E. McDermott Tel: +44 (0)7867 341 257 Email: eddiemcdermott@willsbros.com	Aggregates, bituminous mixtures, concrete, road pavement surfaces & soils	C



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Site activities performed away from the location listed above:

Location details	Activity	Location code
Address All locations suitable for the activities listed Contact: Mr E. McDermott Tel: +44 (0)7867 341 257 Email: eddiemcdermott@willsbros.com	Aggregates, bituminous Mixtures, concrete, road pavement surfaces & soil site sampling and testing	X



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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	Particle size distribution - sieving method	BS EN 933-1:2012	A B C Flexi
	Flakiness	BS EN 933-3:2012	A B Flexi
	Water content	BS EN 1097-5:2008	A B C Flexi
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2020	A
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	A
	Particle size distribution	BS EN 12697-2:2015+A1:2019	A
	Maximum density - volumetric procedure	BS EN 12697-5:2018	A
	Bulk density - saturated surface dry (SSD)	BS EN 12697-6:2020	A
	Determination of air void content	BS EN 12697-8:2018	A
CONCRETE - hardened	Shape, dimensions	BS EN 12390-1:2021	A B C Flexi
	Curing	BS EN 12390-2:2019	A B C Flexi
	Compressive strength of cubes	BS EN 12390-3:2019	A B C Flexi
	Density	BS EN 12390-7:2019	A B C Flexi



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GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014	A C Flexi
	Determination of particle size distribution – sieving method	BS EN ISO 17892-4:2016	A C Flexi
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Determination of plastic limit	BS EN ISO 17892-12:2018+A1:2021	A C
	Determination of plasticity index	BS EN ISO 17892-12:2018+A1:2021	A C
	Determination of liquid limit - fall cone method	BS EN ISO 17892-12:2018+A1:2021	A C
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	A B C Flexi
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	A B C Flexi
	Plastic limit	BS 1377-2:1990	A B C Flexi
	Plasticity index	BS 1377-2:1990	A B C Flexi
	Particle size distribution - wet sieving - dry sieving	BS 1377-2:1990	A B C Flexi
	Moisture condition value (MCV)	BS 1377-4:1990	A C
	Dry density/moisture content relationship - (2.5 kg rammer) - (4.5 kg rammer) - (vibrating hammer)	BS 1377-4:1990	A B C Flexi



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UNBOUND & HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	A B C
	Compressive strength - cubic test specimens	BS EN 13286-41:2003	A B
	Manufacture of cubic test specimens - vibrating hammer compaction	BS EN 13286-51:2004	A B
SITE TESTS			
AGGREGATES	Sampling coarse, fine and all-in aggregates - from flattened stockpiles	BS EN 932-1:1997	X Flexi
	Sample reduction	BS EN 932-2:1999	A C X Flexi
BITUMINOUS MIXTURES for roads and other paved areas	Sampling - from the material around the augers of the paver - from heaps	BS EN 12697-27:2017	X Flexi
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2020	X Flexi
BITUMINOUS ROAD SURFACING	In-situ density - nuclear method	Documented In-House Method No. SC8: Nov 2020	X



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CONCRETE - fresh	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2019	X Flexi
	Slump	BS EN 12350-2:2019	X Flexi
	Air content – pressure method	BS EN 12350-7:2019	X Flexi
	Making cubic specimens for strength tests	BS EN 12390-2:2019	A Flexi
ROAD PAVEMENT SURFACES	Macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	X
	Surface regularity using a rolling straight-edge	TRRL Supplementary Report 290:1977	X
SOILS for civil engineering purposes	Moisture condition value (MCV)	BS 1377-4:1990	X
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	X Flexi
	In-situ bulk density - nuclear method - compliance tests	BS 1377-9:1990	X Flexi
	Vertical deformation and strength characteristics by the plate loading tests	BS 1377-9:1990	X Flexi
	Calculation of nominal CBR value using the plate load test	Design manual for Roads and Bridges, (IAN) 73/06 Rev 1: 2009	A B C X Flexi

END