

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> TESTING</p> <p><b>0251</b></p> <p>Accredited to <b>ISO/IEC 17025:2017</b></p>	<p><b>Stanger Testing Services Ltd</b></p> <p>Issue No: 057    Issue date: 22 October 2021</p>	
	<p><b>Cambuslang Laboratory</b> Bogleshole Road Cambuslang Glasgow G72 7DD</p>	<p><b>Contact: Mr L Murphy</b> Tel: +44 (0)141 641 3623 Fax: +44 (0)141 641 9279 E-Mail: <a href="mailto:contact@stangers.net">contact@stangers.net</a> Website: <a href="http://www.stangers.net">www.stangers.net</a></p>
<p><b>Testing performed by the Organisation at the locations specified below</b></p>		

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

Stanger Testing Services 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:TPM43

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b> Cambuslang Laboratory Bogleshole Road Cambuslang Glasgow G72 7DD</p> <p><b>Local contact</b> Mr L Murphy Tel: +44 (0)141 641 3623 Fax: +44 (0)141 641 9279 E-Mail: <a href="mailto:contact@stangers.net">contact@stangers.net</a></p>	Construction materials laboratory testing	A
<p><b>Address</b> Stanger Testing Services c/o Geddes Quarry Waulkmill Quarry Inverkeilor Arbroath</p> <p><b>Local contact</b> Mr T McKenzie Tel: +44 (0)1241 830346 Fax: +44 (0)1241 830783 E-Mail: <a href="mailto:contact@stangers.net">contact@stangers.net</a></p>	Construction materials laboratory testing	B
<p><b>Address</b> Stanger Testing Services Ardownie Quarry Monifieth Dundee DD5 4HW</p> <p><b>Local contact</b> Mr A Cobb Tel: +44 (0)1382 535272 Fax: +44 (0)1382 530899 E-Mail: <a href="mailto:contact@stangers.net">contact@stangers.net</a></p>	Construction materials laboratory testing	C

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

Location details	Local contact	Activity	Location code
All locations suitable for the activities listed	As above	Construction materials site sampling and testing from the named laboratories	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	Frost-heave	BS 812-124:2009	A
	Frost-heave	MCHW SHW, Feb 2016 Clause 801	A
	Sampling coarse, fine and all-in aggregates - from flattened stockpiles	BS EN 932-1:1997	X
	Sample reduction	BS EN 932-2:1999	A,B,C,X
	Determination of particle size distribution - sieving method	BS EN 933-1:2012	A,B,C, Flexi
	Determination of particle shape - flakiness index	BS EN 933-3:2012	A,B,C, Flexi
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2020	A
	Bulk density and calculation of voids and bulking of aggregate	BS EN 1097-3:1998	A ,C
	Water content - oven drying method	BS EN 1097-5:2008	A,C, Flexi
	Particle density and water absorption for aggregate between 63 µm and 4 mm	BS EN 1097-6:2013	A,C
	Particle density and water absorption for aggregate between 4 mm and 31.5 mm	BS EN 1097-6:2013	A,C
	Resistance to wear - Micro deval method	BS EN 1097-1:2011	A
	Aggregate abrasion value	BS EN 1097-8:2020	A
	Polished stone value	BS EN 1097-8:2020	A
Soundness	BS EN 1367-2:2009	A	



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AGGREGATES (cont'd)	Drying shrinkage	BS EN 1367-4:2008	A
	Water soluble chloride salt - Volhard method	BS EN 1744-1:2009+A1:2012	A
	Water soluble sulphates	BS EN 1744-1:2009+A1:2012	A
	Acid soluble sulphates	BS EN 1744-1:2009+A1:2012	A
	Total sulphur content	BS EN 1744-1:2009+A1:2012	A
BITUMINOUS MIXTURES for roads and other paved areas	Sampling from - around the augers of the paver	BS EN 12697-27:2017	X
	Sampling from workable material in heaps	BS EN 12697-27:2017	X
	Sampling of finished material - core cutting method	BS EN 12697-27:2017	X
	Sampling of pre-coated chippings from stockpiles	BS EN 12697-27:2017	X
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2020	A,B,C,X
	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2020	A,B
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2020	A
	Particle size distribution	BS EN 12697-2:2015+A1:2019	A,B,C
	Temperature of bituminous mixtures - in the hopper of a paver	BS 598-109:1990	X



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Temperature of bituminous mixtures - in a lorry - of laid material - in a heap	BS EN 12697-13:2017	X
	Maximum density-volumetric procedure	BS EN 12697-5:2018	A
	Bulk density - dry	BS EN 12697-6:2020	A
	Bulk density - saturated surface dry (SSD)	BS EN 12697-6:2020	A
	Bulk density - sealed specimen	BS EN 12697-6:2020	A
	Bulk density by dimensions	BS EN 12697-6:2020	A
	Air voids content	BS EN 12697-8:2018	A
	Wheel tracking - Procedure B (in air)	BS EN 12697-22:2020 BS EN 12697-22:2003	A
	Determination of the dimensions of a bituminous specimen	BS EN 12697-29:2020	A
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2019	A
	Stiffness - test applying indirect tension to cylindrical specimens (IT-CY)	BS EN 12697-26:2004 Annex C	A
BITUMINOUS ROAD SURFACING	Rate of spread of coated chippings for mechanical chipping spreaders	BS 598-1:2011	X
CONCRETE - Fresh	Sampling fresh concrete on site - spot sample - composite 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



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CONCRETE - Fresh	Making cubic specimens for strength tests	BS EN 12390-2:2019	A,C,X, Flexi
CONCRETE - Hardened	Cement & aggregate content	BS 1881-124:2015+A1:2021	A
	Chloride content	BS 1881-124:2015+A1:2021	A
	Sulphate content	BS 1881-124:2015+A1:2021	A
	Capillary porosity	BS 1881-124:2015+A1:2021	A
	Chloride content - potentiometric method	Documented In-House Method No TPM49: January 2017	A
	Depth of carbonation	BS EN 14630:2006	A
	Rapid determination of high alumina cement in concrete	Documented in-house method No.TPM2:March 2006	A
	Sampling by dust drilling	Documented In-House Method No TPM32:March 2006	X
CONCRETE – Reinforced	Location of reinforcement	BS 1881-204:1988	X
CONCRETE - Hardened	Compressive strength of cubes	BS EN 12390-3:2019	A,C, Flexi
	Curing	BS EN 12390-2:2019	A,C, Flexi
	Shape, dimensions	BS EN 12390-1:2021	A,C, Flexi
	Density	BS EN 12390-7: 2019	A,C, Flexi
	Cored specimens – taking, examining and testing in compression.	BS EN 12504-1:2019	A,X



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GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014	A, Flexi
	Determination of particle density	BS EN ISO 17892-3:2015	A
	Determination of particle size distribution – sieving method	BS EN ISO 17892-4:2016	A, Flexi
	Determination of liquid and plastic limits	BS EN ISO 17892-12:2018	A
STRUCTURAL FIXINGS	Measurement of bond strength by pull off	BS EN 1542:1999	A
EXTERNAL THERMAL INSULATION COMPOSITE SYSTEMS with rendering (ETICS) and components	Bond strength	ETAG 004:2011 5.1.4.1.1 ETAG 004:2011 5.1.4.1.2 ETAG 004:2011 5.1.4.1.3	A
	Bond strength after ageing	ETAG 004:2011 5.1.7.1.1 ETAG 004:2011 5.1.7.1.2	A
	Water absorption (capillarity test)	ETAG 004:2011 5.1.3.1	A
MORTARS, SCREEDS and PLASTERS	Chemical analysis - ready-mixed lime: fine aggregate (sand) for mortars	BS 4551: 2005+A2:2013	A
ROAD PAVEMENT SURFACES	Measurement of texture depth by the sand-patch method	BS 598-105:2000	X
ROAD PAVEMENT SURFACES	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	X
	Surface regularity using a rolling straight-edge	MHCW SHW, Feb 2016, Clause 702	X
	Falling weight deflectometer (FWD)	Documented in-house method TPM 42:June 2010	X



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REINSTATEMENT OF OPENINGS IN HIGHWAYS	Measurement of material depths and sampling by coring	Documented In-House Method No TPM40 based on the New Roads and Street Works Act (1991) (Specification for the Reinstatement of Openings in Highways) 4th edition (England) February 2019 and Scottish 4th edition (May 2019)	X
	Determination of the thickness of a bituminous pavement - destructive measurement	BS EN 12697-36:2003	X
ROCK	Water absorption	BS EN 13383-2:2019	A
	Uniaxial compressive strength	BS EN 1926:2006	A
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	A, Flexi
	Liquid limit - cone penetrometer	BS 1377-2:1990	A
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	A
	Plastic limit	BS 1377-2:1990	A
	Plasticity index and liquidity index	BS 1377-2:1990	A
	Particle density - gas jar	BS 1377-2:1990	A
	Particle size distribution - dry sieving	BS 1377-2:1990	A, Flexi
	Particle size distribution - wet sieving	BS 1377-2:1990	A, Flexi
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	A, Flexi
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	A, Flexi



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SOILS for civil engineering purposes (cont'd)	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	A, Flexi
	MCV - natural moisture content	BS 1377-4:1990	A, Flexi
	California Bearing Ratio (CBR)	BS 1377-4:1990	A
	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377-7:1990	A
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	X, Flexi
	In-site California Bearing Ratio (CBR)	BS 1377-9:1990	X
	In-situ bulk density - Dielectric method	ASTM D7698-11a	X
	Dynamic cone penetration	Documented In-House Method No TPM 12 March 2006	X

END