

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING</p> <p>0262</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Sandberg LLP</h3> <p>Issue No: 088 Issue date: 21 October 2025</p>	
	<p>5 Carpenters Place London SW4 7TD</p>	<p>Contact: Mr Ewan Maclean Tel: +44 (0)20 7565 7000 Fax: +44 (0)20 7565 7101 E-Mail: ewan.maclean@sandberg.co.uk Website: www.sandberg.co.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>5 Carpenters Place Clapham High Street London SW4 7TD</p> <p>Tel: +44 (0)20 7565 7000 Fax: +44 (0)20 7565 7101</p>	<p>Geology: Mr D Ellis david.ellis@sandberg.co.uk</p> <p>Aggregates & Concrete: Mr M. Sabra mohamad.sabra@sandberg.co.uk</p> <p>Chemistry: Mr G Mayers gavin.mayers@sandberg.co.uk</p> <p>Geomaterials: Mr M Eden mike.eden@sandberg.co.uk</p> <p>Building: Mr G Moor greg.moor@sandberg.co.uk</p> <p>Metals: Dr S Tabrizi Shervin.tabrizi@sandberg.co.uk</p>	<p>A</p>



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
All sites suitable for the activities listed Tel: +44 (0)20 7565 7000 Fax: +44 (0)20 7565 7101	Aggregates & Concrete: Mr M. Sabra mohamad.sabra@sandberg.co.uk Building: Mr G Moor greg.moor@sandberg.co.uk Metallurgy: Dr S Tabrizi Shervin.tabrizi@sandberg.co.uk Curtain Walling: Richard Tat Richard.Tat@sandberg.co.uk	D



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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	Water-soluble chloride salt content	BS EN 1744-1:2009 +A1:2012	A
	Sulphate content of a 2:1 water/aggregate extract	BS EN 1744-1:2009 +A1:2012	A
	Total sulfur content	BS EN 1744-1:2009 +A1:2012	A
	Total sulphate content by acid extraction	BS EN 1744-1:2009 +A1:2012	A
	Total Sulphur by acid digestion	Documented in-house method 5.5	A
	Total sulfur content by high temperature combustion (HTC)	BS EN 1744-1:2009 + A1:2012	A
	Acid soluble sulfides	BS EN 1744-1:2009 +A1:2012	A
	Acid-soluble material content	BS 812-119:1985	A
	Petrographic examination of aggregates for concrete	ASTM C295/C295M-19	A
	Qualitative and quantitative petrographic description of aggregates	BS 812-104:1994	A
	Petrographic description	BS EN 932-3:2022	A
	Particle size distribution - washing and sieving	BS EN 933-1:2012	A
	Flakiness index	BS EN 933-3:2012	A
	Water content - oven drying method	BS EN 1097-5:2008	A
	Magnesium sulphate soundness	BS EN 1367-2:2009	A
Resistance to fragmentation by the Los Angeles method	BS EN 1097-2:2020	A	



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CLAY BRICKS	Soluble salt content	BS 3921:1985 (Withdrawn)	A
	Compressive strength	BS 3921:1985 (Withdrawn)	A
	Water absorption	BS 3921:1985 (Withdrawn)	A
	Determination of the active soluble salts content of clay masonry units	BS EN 772-5: 2016	A
	Determination of water absorption by boiling in water	BS EN 772-7:1998	A
	Water absorption by cold water absorption	BS EN 772-21:2011	A
CEMENT	Loss on ignition	BS EN 196-2:2013	A
	Gravimetric determination of sulphate	BS EN 196-2:2013	A
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2:2013	A
	Chloride content	BS EN 196-2:2013	A
	Alkali content	BS EN 196-2:2013	A
	Chemical analysis of Portland cement	Documented In-House Method 11.1/5 based on BS 4550-2:1970	A
PULVERISED FUEL-ASH	Chloride	BS EN 196-2:2013	A
	Calcium oxide content	BS EN 196-2:2013	A
	Sulphuric anhydride	BS EN 196-2:2013	A
	Loss on ignition	BS EN 196-2:2013	A



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CONCRETE - hardened	Cement and aggregate content	BS 1881-124:2015+ A1:2021	A
	Aggregate grading	BS 1881-124:2015 + A1:2021	A
	Chloride content	BS EN 14629:2007 BS 1881-124:2015 + A1:2021 and DIHM 14.8.1 based on BS 1881- 124:2015 + A1:2021	A
	Sulphate content	BS 1881-124:2015 + A1:2021	A
	Sodium oxide and potassium oxide	BS 1881-124:2015 + A1:2021	A
	Alumina and iron oxides	BS 1881-124:2015 + A1:2021 and Documented In-House 34.1	A
	Chemical analysis and aggregate content	Documented In-House Method TP/C14.0/8	A
	Air-void content - by modified point count method B	ASTM C457/C457M-24	A
	Petrographic examination	ASTM C856-20A APG-SR2 using SEM	A
	Procedure and terminology for the petrographic examination of hardened concrete	BS 1881-211: 2016	A
	Equivalent water/cement ratio by microporosity assessment	Documented In-House Method No TP/G8 using optical microscopy with UV illumination and fluorescent dyes	A
	Depth and degree of carbonation	Documented In-House Method No TP/G7/1 using chemical staining, optical microscopy and polarized light	A
Compressive strength of cubes - including curing	BS EN 12390-1:2012 BS EN 12390-2: 2009 (Withdrawn) BS EN 12390-2:2019 BS EN 12390-3: 2009 (Withdrawn) BS EN 12390-3:2019	A	
Compressive strength of cores	BS EN 12504-1: 2009 (Withdrawn) BS EN 12504-1:2019 + AC:2020	A	



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CONCRETE – hardened (cont'd)	Density	BS EN 12390-7: 2009 (Withdrawn) BS EN 12390-7:2019 + AC:2020	A
	Determination of the chloride migration coefficient	BS EN 12390-18:2021	A
CONCRETE, MORTAR & CEMENT-BASED REPAIR MATERIALS	Chloride migration coefficient from non-steady-state migration experiments	NT Build 492 Approved 1999	A
CONCRETE STRUCTURES	Carbonation	BS EN 14630:2006 BRE Information Paper IP 6/81 Documented In-House Method No. TP/F/10	D
	Coring	BS EN 12504-1: 2009 (Withdrawn) BS EN 12504-1:2019 + AC:2020	D
	Sampling of concrete by dust drilling	BS EN 14629:2007 Documented In-House Method No. TP/F/11	D
	Location of reinforcement	BS 1881-204:1988 DIHM TP/F/12	D
	Half -cell potential of uncoated reinforcing steel in concrete	ASTM C876-22b	D
	MORTAR for bricklaying, plastering and rendering	Chemical analysis	BS 4551:2005 +A2:2013
Mix proportions		DIHM No 34.1	A
CONCRETE PAVING FLAGS	Transverse strength	BS EN 1339:2003	A
	Abrasion Resistance	BS EN 1339:2003 Annex G	A
	Unpolished slip resistance value	BS EN 1339:2003 Annex I	A
PRECAST CONCRETE KERB UNITS	Abrasion Resistance	BS EN 1340:2003 Annex G	A
	Unpolished slip resistance value	BS EN 1340:2003 Annex I	A



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PAVED SURFACES, FLOORS and FLOOR COVERINGS	Slip resistance (pendulum tester)	BS EN 1341:2012 BS EN 1342:2012 BS EN 14231:2003	A, D
	Determination of slip resistance of pedestrian surfaces – pendulum test	BS EN 16165:2021	A, D
	Slip resistance value and coefficient of friction	BS 7976-2:2002 +A1:2013	A, D
	Surface roughness	The Assessment of Floor Slip Resistance, The UK Slip Resistance Group Guidelines Issue 5/2016	A, D
PAVED SURFACES, FLOORS and FLOOR COVERINGS (Terrazzo tiles for internal use)	Abrasion Resistance	BS EN 13748-1:2004+A1:2005	A
	Unpolished slip resistance value	BS EN 13748-1:2004+A1:2005	A
	Water absorption	BS EN 13748-1:2004+A1:2005	A
	Breaking strength and breaking load	BS EN 13748-1:2004+A1:2005	A
	Abrasion Resistance	BS EN 13748-2:2004	A
PAVED SURFACES, FLOORS and FLOOR COVERINGS (Terrazzo tiles for external use)	Unpolished slip resistance value	BS EN 13748-2:2004	A
	Breaking strength and breaking load	BS EN 13748-2:2004	A
PRECAST CONCRETE PAVING BLOCKS	Abrasion Resistance	BS EN 1338: 2003 Annex G	A
	Unpolished slip resistance value	BS EN 1338:2003 Annex I	A
GLASS	Glass fracture and inclusions	Documented In-House Method: TP-G-31, Oct 2010 using SEM	A



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ROCK	Description and classification	BS 5930: 2015 + A1:2020 Clause 36BS EN ISO 14689-1: 2018	A
	Petrographic description	ISRM Suggested Methods - Rock Characterization Testing and Monitoring, Ed. E T Brown-1981	A
	Microcrack dye testing of granite	Documented In-House Method TP/G27-01	A, D
CRUSHED ROCK FILL	Petrographic analysis and semi-quantitative analysis of crushed rock	Documented In-House Method: TP-G-30, 2011 using SEM	A
SLATE AND STONE PRODUCTS for discontinuous roofing and cladding	Petrographic examination (excluding X-ray diffraction)	BS EN 12326-2:2011:clause 16	A
	Failure load in bending	BS EN 12326-2:2011:clause 10	A
	Length and width	BS EN 12326-2:2011:clause 5	A
	Edge deviation	BS EN 12326-2:2011:clause 6	A
	Rectangularity	BS EN 12326-2:2011:clause 7	A
	Thickness	BS EN 12326-2:2011:clause 8	A
	Flatness deviation	BS EN 12326-2:2011:clause 9	A
	Thermal cycling	BS EN 12326-2:2011:clause 15	A
	Water absorption	BS EN 12326-2:2011:clause 11	A
	Sulfur dioxide exposure (CaCO ₃ <= 20%)	BS EN 12326-2:2011:clause 14	A
	BUILDING STONE	Compressive strength	ASTM C170/C170M-24a
Flexural strength		ASTM C880/C880M-24	A
Modulus of rupture		ASTM C99-/C99M-24	A
Absorption and specific gravity		ASTM C97/C97M-18	A
Saturation coefficient and porosity		Durability Tests for Building Stone (BRE Report BR141:1989)	A



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MASONRY UNITS	Compressive strength	BS EN 772-1:2011+A1:2015	A
	Apparent density and open porosity	BS EN 772-4:1998	A
	Water absorption coefficient by capillarity	BS EN 772-11:2011	A
NATURAL STONE (natural stone products for building purposes)	Dimensions	BS EN 772-16:2011	A
	Dimensions	BS EN 1341:2012 BS EN 1342:2012 BS EN 1343:2012	A
	Petrographic description	BS EN 12407:2019	A
	Standard guide for petrographic examination of dimension stone	ASTM C1721-22	A
	Determination of the resistance of marble to thermal and moisture cycles	BS EN 16306: 2022: Annex C	A
	Flexural strength under concentrated load (3 point loading method)	BS EN 12372:2022	A
	Flexural strength under constant moment	BS EN 13161:2008	A
	Compressive strength	BS EN 1926:2006 BS EN 1342:2012	A
	Breaking load at dowel hole	BS EN 13364:2002	A
	Standard test method for strength of individual stone anchorages in dimension stone	ASTM C 1354/C 1354M-22	A
	Abrasion resistance	BS EN 1341:2012 Annex C BS EN 1342:2012 Annex B BS EN 14157:2017 Method A (wide wheel)	A
Resistance to salt crystallisation	BS EN 12370:2020	A	
Water absorption coefficient by capillarity	BS EN 1925:1999	A	



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NATURAL STONE (natural stone products for building purposes) (cont'd)	Real density and total porosity	BS EN 1936:2006	A
	Water absorption at atmospheric pressure	BS EN 13755:2008 BS EN 1341:2012 BS EN 1342:2012 BS EN 1343:2012	A
	Apparent density and open porosity	BS EN 1936:2006	A
	Frost resistance	BS EN 12371: 2010	A
	Ageing by thermal cycling	BS EN 14066:2013	A
	Unpolished slip resistance (pendulum tester)	BS EN 1341:2012 BS EN 1342:2012 BS EN 14231:2003	A, D
	Dynamic modulus of elasticity (by fundamental resonant frequency)	BS EN 14146:2004	A
	Static elastic modulus	BS EN 14580:2005	A
	Linear thermal expansion coefficient (Method A)	BS EN 14581:2004	A
	Sensitivity to changes in appearance produced by thermal cycles	BS EN 16140:2019	A
	Sound speed propagation	BS EN 14579:2004	A
	Surface friction (pendulum tester)	ASTM E303-22	A
	Sensitivity to accidental staining	BS EN 16301:2021.	A
	Tensile load of Kerf clips or channel fixings	In-house procedure TPG36	A
	Tensile load of undercut anchor fixing	In-house procedure TPG37	A
Shear load of undercut anchor fixing	In-house procedure TPG38	A	



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NATURAL STONE (natural stone products for building purposes) (cont'd)	Combined shear and tensile load of undercut anchor fixing	In-house procedure TPG39	A
	Pre-cast pull off tests	In-house procedure TPG35	A
	ABRASION RESISTANCE	ASTM C1353/C1353M-20e1	A
PAINT and AIR FILTERS used in air monitoring	Lead content	Documented In-House Method No 40.3 using atomic absorption spectrophotometry	A
SALT for spreading on highways for winter maintenance	Matter insoluble in water	BS 3247:2011+A1:2016	A
	Chloride content	BS 3247:2011+A1:2016	A
	Soluble sulphate compounds	BS 3247:2011+A1:2016	A
	Moisture content	BS 3247:2011+A1:2016	A
	Grading by sieve analysis	BS 3247:2011+A1:2016	A
WATER for making concrete	Suitability	BS EN 1008:2002	A
METALS, ALLOYS and METAL PRODUCTS	Tensile test up to 300KN (ambient temperature)	BS EN ISO 6892-1:2019 Methods A & B	A
	Tensile test up to 1000KN (ambient temperature)	BS EN ISO 6892-1:2019 Method B	A
	Vickers hardness	BS EN ISO 6507-1: 2023	A
	Brinell Hardness (HB 1/10 and HB 1/30)	BS EN ISO 6506-1:2014	A
	Charpy impact testing up to 300 joules and from 233 K to ambient temperature	BS EN ISO 148-1:2016	A
	Micrographic determination of the grain size of steel (comparative method only)	BS EN ISO 643:2024	A
	Micrographic determination of the morphology of graphite in cast iron	BS EN ISO 945-1:2019	A



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METALS & ALLOYS: ferrous and non-ferrous	Metallographic examination and identification of materials	Documented In-House Method MS/LG/TP M/13 using acid etching and light microscopy; MS/LG/TP M/13A etching of samples in preparation for metallography	A
WELDMENTS	Tests designated in specified welding codes - as detailed below:- Bend, Fracture, Hardness, Impact, Tensile, Visual-examination, Macro-examination, Micro-examination	BS EN ISO 9606-1:2017 BS EN ISO 9606-2:2004 BS EN ISO 15614-1:2017+A1:2019 BS EN ISO 15614-2:2005 BS EN ISO 9016:2022 BS EN ISO 5178:2019 BS EN ISO 4136:2022 BS EN ISO 5173:2023 BS EN ISO 9015-1:2011 BS EN ISO 9017:2018 BS EN ISO 17639:2022	A
REINFORCING STEELS	Tensile strength up to 40 mm diameter	BS 4449:2005 +A3 2016 BS 4449:1997 (withdrawn)	A
	Tensile properties	BS 4482:2005 BS 4483:2005 BS EN ISO 15630-1:2019	A
	Weld test	BS EN ISO 17660-1:2006 CI14 BS EN ISO 17660-2:2006 CI14 BS EN ISO 15630-1:2019 BS EN ISO 15630-2:2019	A
FASTENERS - bolts only	Tensile strength	BS EN ISO 898-1:2013	A
	Proof loading	BS EN ISO 898-1:2013	A
CURTAIN WALLING RAINScreens SLOPE GLAZING		CWCT Standards for Systemised Building Envelopes and Test Methods for Building Envelopes, December 2005 NHBC Standards 2021, Chapter 6.9 S17 and S18	
	Water Penetration - Hose Test	Section 9	D
	Water Penetration – Spraybar	Section 10	D



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CURTAIN WALLING Cladding Panels	Watertightness	BS EN 13051:2001	D
	Field hose test	AAMA 501.2-15	D
	Impact resistance (double tyre)	BS EN 14019:2016	D
	Impact resistance (bag)	CWCT Technical Note 76, June 2012	D
END			