


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0013</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Lucideon Limited</h3>	
	<p>Issue No: 073</p>	<p>Issue date: 08 February 2018</p>
<p>Queens Road Penkhull Stoke-on-Trent Staffordshire ST4 7LQ</p>	<p>Contact: Dr Stephen Morrey Tel: +44 (0)1782 764214 Fax: +44 (0)1782 412331 E-Mail: stephen.morrey@lucideon.com Website: www.lucideon.com</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>Address Lucideon Limited Queens Road Penkhull Stoke-on-Trent Staffordshire ST4 7LQ</p> <p>Local contact Dr Stephen Morrey Tel: +44 (0)1782 764214 Fax: +44 (0)1782-412331 EMail: stephen.morrey@lucideon.com</p>	<p>Chemical, geological, physical and mechanical testing of construction and building materials, refractories and ceramics, recycled materials, tableware and environmental samples and, mineral identification by SEM and colour measurement.</p>	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>All site locations suitable for the activities listed</p>	<p>Slip resistance of paved surfaces</p>	S



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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
PHYSICAL PROPERTIES CONSTRUCTION MATERIALS			
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-1:2012 BS EN 12390-2:2009 BS EN 12390-3:2009	A
	Compressive Strength of cores	BS EN 12504-1:2009	A
	Density	BS EN 12390-7:2009	A
CLAY BRICKS	Dimensions	BS EN 772-16:2011	A
	Compressive strength	BS EN 772-1:2011	A
	Water absorption	BS EN 772-7:1998 BS EN 771-1:2011; Annex C	A
	Net and gross dry density	BS EN 772-13:2000	A
	Initial rate of suction	BS EN 772-11:2011	A
	Net volume and percentage voids	BS EN 772-9:1998	A
DAMP PROOF COURSE UNITS	Water absorption	BS EN 772-7:1998	A
VITREOUS CHINA SANITARY APPLIANCES	Water absorption	BS 3402:1969	A
	Resistance to crazing	BS 3402:1969	A
MASONRY	Freeze/thaw resistance	DD.CEN/TS 772-22:2006	A



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PRECAST CONCRETE MASONRY UNITS	Flatness of faces	BS EN 772-20:2000	A
	Dimensions	BS EN 772-16:2011	A
	Compressive strength	BS EN 772-1:2011	A
	Bending tensile strength	BS EN 772-6:2001	A
	Net and gross dry density	BS EN 772-13:2000	A
	Water absorption due to capillary action	BS EN 772-11:2011	A
	Moisture expansion	BS EN 772-19:2000	A
	Moisture movement	BS EN 772-14:2002	A
MORTARS, SCREEDS and PLASTERS	Bulk density of hardened mortar	BS EN 1015-10:1999	A
	Dry bulk density of hardened mortar	BS EN 1015-10:1999	A
CLAY PAVERS	Transverse breaking load	BS EN 1344:2013:	A
	Abrasion	BS EN 1344:2013:	A
	Freeze thaw resistance	BS EN 1344:2013:	A
PRECAST CONCRETE PAVING BLOCKS	Dimensional measurement	BS EN 1338:2003	A
	Tensile splitting strength	BS EN 1338:2003	A
	Water absorption	BS EN 1338:2003	A
NATURAL STONE including modular tiles, roofing & cladding and masonry units	Determination of slip resistance by means of the pendulum tester - modular	BS EN 14231:2003	A, S
	Unpolished slip resistance of external paving slabs	BS EN 1341:2012	A, S
CONCRETE ROOFING TILES and FITTINGS	Transverse strength	BS EN 491:2011	A
CLAY ROOFING TILES and FITTINGS	Frost resistance test	BS EN 539-2:2013	A



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NATURAL STONE	Determination of slip resistance by means of the pendulum tester	BS EN 14231:2003	A, S
	Unpolished slip resistance of paving slabs	BS EN 1341:2012	A, S
	Abrasion resistance	BS EN 1341:2000: Annex C	A
DAMP-PROOF COURSE MATERIALS	Shear strength	BS EN 1052-4: 2000	A
	Flexural bond strength	DD86:Part 1:1983	A
	Short-term shear strength	DD86:Part 1:1983	A
STRUCTURAL FIXINGS	Load capacity and load deflection of joist hangers	BS EN 846:8:2000 +A1:2006 BS EN 845-1:2013 +A1:2016	A
	Load capacity of metal suspension and connecting components for Suspended Ceilings – bending test and static test	BS EN 13964:2014	A
THREE-DIMENSIONAL NAILING PLATES	Strength and deformation characteristics	ETAG 015:2012 BS EN 26891:1991 and EOTA Technical Report TR 016:February 2002	A
	Moisture content, density and standard atmosphere for conditioning of timber	ISO 3130:1975 ISO 3131:1975 ISO 554:1976	A
WALL PANELS - timber frame	Racking strength and stiffness	BS EN 594:2011	A
LINTELS	Flexural resistance and shear resistance	BS EN 846-9:2016 BS EN 845-2:2013 +A1:2016	A
MASONRY - including natural stone	Compressive strength	BS EN 1052-1:1999	A
	Initial shear strength	BS EN 1052-3:2002	A
	Flexural strength	BS EN 1052-2:2016	A
	Lateral strength - uniformly distributed loads	Documented In-House Method BCRL-TN284:1979	A



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WALL TIES	Bond strength of prefabricated bed-joint reinforcement in mortar joints	BS EN 846-2:2000 BS EN 845-3:2013 +A1:2016	A
	Tensile and compressive load capacity and load displacement characteristics (couplet test)	BS EN 846-5:2012 BS EN 845-1:2013 +A1:2016	A
SHEAR TIES AND SLIP TIES	Tensile and compressive load capacity and load displacement characteristics (single end test)	BS EN 846-6:2012 BS EN 845-1:2013 +A1:2016	A
	Shear load capacity and load displacement characteristics (couplet test for mortar joint connection)	BS EN 846-7:2012 BS EN 845-1:2013 +A1:2016	A
ANCILLARY COMPONENTS FOR MASONRY			
- horizontal restraint straps - masonry specimens - timber specimens - vertical restraint straps - timber wall plate or truss - masonry specimens	Load capacity and load deflection characteristics	BS EN 846-4:2002 BS EN 845-1:2013 +A1:2016	A
Prefabricated bed joint re-inforcement	Shear load capacity of welds	BS EN 846-3:2000 BS EN 845-3:2013 +A1:2016	A



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EXTERNAL THERMAL INSULATION COMPOSITE SYSTEMS with rendering (ETICS) and components	Hygrothermal behaviour	ETAG 004:2013: 5.1.3.2.1	A
	Freeze/thaw behaviour	ETAG 004:2013: 5.1.3.2.2	A
	Water absorption (capillarity test)	ETAG 004:2013: 5.1.3.1	A
	Resistance to hard body impact	ETAG 004:2013: 5.1.3.3.1	A
	Water vapour permeability	ETAG 004:2013: 5.1.3.4 BS EN ISO 7783:2011	A
	Bond strength	ETAG 004:2013: 5.1.4.1.1 ETAG 004:2013: 5.1.4.1.2 ETAG 004:2013: 5.1.4.1.3	A
	Bond strength after ageing	ETAG 004:2013: 5.1.7.1.1 ETAG 004:2013: 5.1.7.1.2	A
	Pull through test of fixings	ETAG 004:2013: 5.1.4.3.1	A
	Tensile test perpendicular to the faces	ETAG 004:2013: 5.2.4.1.1 ETAG 004:2013: 5.2.4.1.2 BS EN 1607:1997	A
	Density of pastes, liquids and powders	ETAG 004:2013: Annex C.1.1.1	A
	Dry extract of pastes and liquids	ETAG 004:2013: Annex C.1.1.2	A
	Ash content of pastes, liquids and powders	ETAG 004:2013: Annex C.1.1.3	A
	Particle size grading of pastes and powders	ETAG 004:2013: Annex C.1.1.4	A



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ADHESIVES for use with ceramic tiles and mosaics	Open time	BS EN 12004-2:2017	A
	Slip	BS EN 12004-2:2017	A
	Tensile adhesion strength	BS EN 12004-2:2017	A
	Shear adhesion strength	BS EN 12004-2:2017	A
	Transverse deformation	BS EN 12004-2:2017	A
GROUTS - for use with ceramic tiles	Flexural strength	BS EN 12808-3:2008	A
	Abrasion	BS EN 12808-2:2008	A
	Shrinkage	BS EN 12808-4:2009	A
	Water absorption	BS EN 12808-5:2008	A
PLASTICS	Surface durability against commercial detergents	BS EN 12875-4:2012	A
CERAMIC FLOOR and WALL TILES	Chemical resistance	BS EN ISO 10545-13:1997	A
	Resistance to stains	BS EN ISO 10545-14:2015	A
	Modulus of rupture and breaking strength	BS EN ISO 10545-4:2014	A
	Scratch hardness of surface according to Mohs	BS 6431-13:1991 BS EN 101:1991	A
	Resistance to thermal shock	BS EN ISO 10545-9:2013 ISO/DIS 10545-9 :2011	A
	Moisture expansion	BS EN ISO 10545-10:1997	A
SURFACES of all types for use by pedestrian or vehicular traffic	Slip resistance by the pendulum friction test	UK Slip Resistance Group Guidelines Issue 5:2016, and all technically equivalent standards	A, S
SURFACES of all types for use by pedestrian traffic	Slip resistance by the ramp test	CEN/TS 16165:2012, and all technically equivalent standards	A



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CERAMIC FLOOR and WALL TILES	Dimensions and surface quality	BS EN ISO 10545-2:1997	A
	Water absorption	BS EN ISO 10545-3:1997	A
	Impact resistance by measurement of coefficient of restitution	BS EN ISO 10545-5:1998	A
	Slip resistance - pendulum method	BS 7976-2:2002+A1:2013	A, S
	Resistance to deep abrasion	BS EN ISO 10545-6:2012 BS EN 1344:2013	A
	Linear thermal expansion	BS EN ISO 10545-8:2014	A
CERAMIC FLOOR and WALL TILES - glazed tiles	Resistance to surface abrasion	BS EN ISO 10545-7:1999	A
	Crazing resistance	BS EN ISO 10545-11:1996	A
FLOORS and FLOOR COVERINGS	Determination of anti-slip characteristics	DIN 51130:2010	A
	Determination of anti-slip characteristics - ramping test	DIN 51097:1992	A
	Slip resistance - pendulum method	BS 7976-2:2002+A1:2013	A, S
CLAY PAVERS	Slip resistance	BS EN 13845:2005	A, S
	Skid resistance value	BS 7976-2:2002+A1:2013	A, S
	Unpolished slip/skid resistance	BS EN 1344:2013	A, S
PAVED SURFACES	Abrasion	BS EN 1344:2013	A
	Unpolished slip/skid resistance	BS 7976-2:2002+A1:2013	S



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PHYSICAL PROPERTIES REFRACTORIES & INDUSTRIAL CERAMICS			
REFRACTORY MATERIALS	Particle size distribution - dry sieving	BS 1796-1:1989 ISO 2591-1:1988	A
	Particle size distribution - washing and sieving	BS 1796-1:1989 ISO 2591-1:1988	A
	Grain density	BS EN 993-17:1999	A
	Thermal expansion from ambient to 1500 °C	BS 1902-5.14:1992	A
	Thermal expansion	BS 1902-5.3:1990	A
	Thermal conductivity - by panel/calorimeter method	BS 1902-5.5:1991	A
	Thermal Conductivity - by split column	BS 1902-5.8:1992	A
	Modulus of rupture at elevated temperatures	BS EN 993-7:2000	A
CLAYS, POWDERS, BUILDING SANDS and other granular materials	Particle size distribution - dry sieving	BS 1796-1:1989 BS EN 13139:2002 BS EN 933-1:2012 ISO 2591-1:1988	A
	BET, specific surface area and BJH, pore volume and pore area	Documented In-House Method PT 50 based on BS ISO 9277:2010	A
REFRACTORY MATERIALS - bricks, blocks and dense shaped products	Cold crushing strength	ASTM C133 - 97(08) e1	A
	Modulus of rupture	ASTM C133 - 97(08) e1	A
	Apparent porosity	ASTM C20 - 97(10)	A
	Cold crushing strength	BS EN 993-5:2000	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
REFRACTORY MATERIALS - bricks, blocks and dense shaped products (cont'd)	Permanent change in dimensions on heating	BS EN 993-10:1998 BS 1902-5.10:1992 ASTM C113 - 02 (08)	A
	Bulk density, true porosity and apparent porosity	BS EN 993-1:1995 BS 1902-3.8:1995 ISO/CD 18754:2011	A
	Refractoriness-under-load	BS EN ISO 1893:2008	A
	Creep in compression	BS EN 993-9:1997	A
	Thermal expansion	ASTM C832 - 00 (10)	A
	Modulus of rupture at ambient temperature	BS EN 993-6:1995 BS 1902-4.4:1995	A
	Bulk density of granular materials by the mercury method with vacuum	BS EN 993-17:1999	A
REFRACTORY MATERIALS - shaped insulating products	True density	BS EN 993-2:1995 BS 1902-3.4:1995	A
	Cold crushing strength	BS EN 1094-5:1995 BS EN ISO 8895:2006 BS EN 1094-6:2000	A
	Permanent change in dimensions on heating		A
	Bulk density	BS EN 1094-4:1995	A
REFRACTORY MATERIALS - unshaped refractories used	Bulk density by mass and dimensions	ASTM C134 -95 (10)	A
	Cold crushing strength	BS EN 1402-6:2003: Section 6	A
	Bulk density and apparent porosity	BS EN 1402-6:2003: Section 4	A
	Permanent change in dimensions on heating	BS EN 1402-6:2003: Section 7	A



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REFRACTORY MATERIALS, ADVANCED CERAMICS and COMPOSITES	Strength and displacement - by 3 and 4 point loading method at temperatures from ambient to 1875K	Documented In-House Methods R102:1990 and R101:2002	A
	Bi-axial flexural strength of non-metallic surgical implants	ISO 13356:2015 ISO 6474-1:2010 BS ISO 6474-2:2012 ASTM C1499-09	A
	Flexural strength of advanced ceramics at ambient temperature	ASTM C1161 - 02c(08) e1	A
REFRACTORY MATERIALS and PRODUCTS	Stress-strain-time relation - at temperatures from ambient to 1875K	Documented In-House Method R100:1990	A
End of Section			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PHYSICAL PROPERTIES OF TABLEWARE AND TABLETOP ITEMS including ceramic ware, glassware, cookware, candles, etc	Water absorption	BS EN 1217:1998	A
	Chipping and impact test	BS EN 12980:2000	A
	Cup handle strength	Documented In-House Method PT 32:2003	A
	Thermal shock - boiling water test	Documented In-House Method PT 33: 2000 re-approved 2010	A
	Metal marking	Documented In-House Method PT 38:2004	A
CERAMIC TABLEWARE & WHITEWARES including china and vitrified hotel ware	Hand washing, lid fit, water retention, pouring, stability, knob & handle temperature	Documented In-House Method PT 35:2003	A
	Resistance to microwave heating	BS EN 15284:2007	A
	Freezer to oven usage	Documented In-House Method PT 36:2002	A
	Freezer to microwave usage	Documented In-House Method PT 37	A
	Thermal shock endurance	BS EN 1183:1997	A
MATERIALS & ARTICLES in contact with FOOD including ceramic, glass, glass-ceramic or plastic cookware	Crazing resistance of ceramic articles	BS EN 13258:2003	A
	Annealing stress (Polariscope)	Documented In-House Method PT 39:2006	A
GLASSWARE	Translucency	EEC Reg No 679/72	A
CERAMIC TABLEWARE	Water absorption	BS 4034:1990	A
VITRIFIED HOTELWARE	Determination of crazing	BS 4034:1990	A



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WHITEWARES UTENSILS mechanical dishwashing resistance	Thermal expansion	Specifications technically equivalent to BS 1902-1A:1966	A
	Crazing resistance of ceramic articles	BS EN 13258:2003	A
	Water absorption	BS EN 1217:1998	A
	Rapid test for domestic ceramic articles	BS EN 12875-4:2006	A
	Rapid test for ceramic catering articles	BS EN 12875-5:2006	A
End of Section			
CHEMICAL TESTING INORGANIC NON-METALLIC MATERIALS and PRODUCTS - ceramics, glasses, minerals, slag, ores, dusts, solid recovered fuel (SRF) and oxides	Determination of trace elements	Documented In-House Method C12 using ICP optical emission spectrometry	A
	Determination of trace elements	Documented In-House Method C253. Analysis of trace elements in siliceous minerals by microwave digestion	A
	Determination of chloride, nitrate and sulphate ion (water soluble)	Documented In-House Method C18 using ion chromatography	A



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NON-METALLIC MATERIALS and PRODUCTS - ceramics, glasses, minerals, slag, ores, dusts and oxides (cont'd)	Elemental analysis and speciation by XRF	Documented In-House Method C201 using X-ray fluorescence spectroscopy	A
	Determination of boron in magnesites	Documented In-House Method C33 using ICP optical emission spectrometry	A
	Determination of carbonate	Documented In-House Method C44	A
	Determination of total carbon and total sulphur	Documented In-House Method C45 using a LECO induction furnace	A
	Determination of fluorine (pyrohydrolytic method)	Documented In-House Method C7	A
	Determination of boric oxide, ruthenia and lithia in glazes, glasses and associated materials	Documented In-House Methods C15 & C22 using fusion/ICP and B2O3 by BS EN ISO 21078-1:2008 using fusion ICP	A
GEOLOGICAL MATERIALS, ceramic powders and cements	Carbonate and organic carbon	Documented In-House Method C248 by loss on ignition and LECO induction furnace	A
CLAYS, POWDERS and GRANULAR MATERIALS	Determination of soluble salts	Documented In-House Method C37	A
REFRACTORY MATERIALS	Analysis by X-ray fluorescence all refractory types	BS EN ISO 12677:2011	A
	Silica by XRF	BS 1902-9.2:1987	A
REFRACTORY MATERIALS - silicon carbide	Analysis by X-ray fluorescence and loss on ignition	BS EN ISO 21068-1:2008 BS EN ISO 12677:2011 BS EN ISO 21068-3:2008: Section 8.4 and 8.5 BS EN ISO 21068-2:2008: Section 4.1 to 4.7	A
	Total carbon	BS EN ISO 21068-2:2008: Section 5.3.5	A



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HYDROXYAPATITE and CALCIUM PHOSPHATE materials	Trace element analysis (Hg, Cd, As, Pb)	ASTM F1185-03 using ICP	A
End of Section			
CHEMICAL TESTING OF CONSTRUCTION MATERIALS			
MORTARS for bricklaying, plastering and rendering	Chemical analysis and calculation of mix proportions	Documented In-house Method C43 based on BS 4551:2005 + A2:2013	A
	Water soluble chloride	BS EN 1015-17:2000	A
CLAY BRICKS	Soluble Salts	Documented In-House Method C210 based on BS EN 772-5:2001	A
CEMENT	Loss on ignition	BS EN 196-2:2005 BS EN 197-1:2011 Documented In-House Method C201	A
	Elemental analysis	BS EN 196-2:2005 using X-ray fluorescence spectroscopy BS EN 197-1	A
		Documented In-House Method C201 using X-ray fluorescence spectroscopy	A
CERAMIC FLOOR and WALL TILES - glazed tiles	Lead and cadmium release by glazed tiles	BS EN ISO 10545-15:1997	A
SLATE AND STONE PRODUCTS for discontinuous roofing and cladding	Non-carbonate carbon content	BS EN 12326-2:2000: Clause 13 Documented In-House Method C44 and C45	A
	Carbonate content	BS EN 12326-2:2000: Clause 14 Documented In-House Method C44	A



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CHEMICAL TESTING OF TABLEWARE & TILES CERAMIC WARE, GLASSWARE, GLASS CERAMIC WARE and VITREOUS ENAMEL WARE	Lead and cadmium release	BS 6748:1986 Council Directive 84/500/EEC 15 Oct 1984 amended by 2005/31/EC	A
	Lead and cadmium release from ceramic ware	BS EN 1388-1:1996	A
	Lead and cadmium release from silicate surfaces other than ceramic ware	BS EN 1388-2:1996	A
	Lead and cadmium release	ISO 6486-1:1999	A
	Metal release from glazed pottery	AS/NZ 4371:1996 + A1	A
	Lead and cadmium release	Documented In-House Method C109, based on Proposition 65, California's Safe Drinking Water & Toxic Enforcement Act	A
	Metal release	Documented In-House Method C101 and methods listed in BCRL - "Toxic Metal Release from Ceramic Tableware"	A
	Metal release from glazed pottery	Documented In-House Method C102 based on American FDA	A
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CHEMICAL TESTING ORGANIC & ENVIRONMENTAL			
GASES AND AIR Bulk components	Methane Ethane Ethene Acetylene Helium Hydrogen Oxygen Nitrogen Carbon Dioxide Propane isobutene n-butane	Documented In-House Method C72	A
GASES AND AIR	Hydrogen sulphide	Documented In-House Method C74 using gas chromatography	A
	Carbon Monoxide	Documented In-House Method C227 by GC-FID	A
	Volatile Organic Compounds:- Hexamethyldisiloxane Hexamethylcyclotrisiloxane Octamethyltrisiloxane Octamethylcyclotetrasiloxane Decamethyltetrasiloxane Decamethylcyclopenta- siloxane Dodecamethylcyclohexa- 2-methyl butane Pentane Hexane Heptane Octane Nonane Decane Dodecane Tetradecane Cumene (iso Propyl Benzene) Ethyl Acetate Iso Propyl Acetate Propyl Acetate sec-Butyl Acetate	By thermal desorption from diffusive or pumped sorbent tubes (GC-MS method) Documented In-House Method C51 using GC-MS	A



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United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Lucideon Limited

Issue No: 073 Issue date: 08 February 2018

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
GASES AND AIR (cont'd)	Volatile Organic Compounds: (cont'd) 3-Carene tert-butyl Acetate Amyl Acetate n-Butyl Acetate Limonene alpha-Pinene beta-Pinene Benzyl acetate Methyl butyrate 1,3-butadiene 1-pentene Furan Ethyl buyrate 1-pentanethiol 1-Propanethiol 1-Butanethiol Benzene Toluene Ethylbenzene m/p-Xylene 2-Butoxy ethanol o-Xylene Vinyl Chloride Chloroethane Freon 11 Freon 113 Freon 12 Freon 21 Freon 22 1,1-dichloroethylene Dimethyl sulphide Dichloromethane Carbon Disulphide Trans-1,2-dichloroethylene Cis-1,2-dichloroethylene 1,1-dichloroethane Ethyl methyl sulphide Chloroform Bromodichloromethane Dibromochloromethane Cis-1,3-dichloropropene Dimethyl disulphide 1,1,1-trichloroethane 1,1,2-trichloroethane 1,2-dichloroethane	By thermal desorption from diffusive or pumped sorbent tubes (GC-MS method) DIHM C51 using GC-MS	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
GASES AND AIR (cont'd)	Volatile Organic Compounds: (cont'd) Carbon Tetrachloride Diethyl sulphide Diethyl disulphide Trichloroethylene Tetrachloroethylene Chlorobenzene Bromoform 1,2-dichlorobenzene 1,3-dichlorobenzene	By thermal desorption from diffusive or pumped sorbent tubes (GC-MS method) Documented In-House Method C51 using GC-MS	A
LAND-FILL, DIGESTER and RELATED GASES	Hydrogen sulphide	Documented In-House Method C74 using gas chromatography	A
	Volatile Organic Compounds: Hexamethyldisiloxane Hexamethylcyclotrisiloxane Octamethyltrisiloxane Octamethylcyclotetrasiloxane Decamethyltetrasiloxane Decamethylcyclopenta- siloxane Dodecamethylcyclohexa- 2-methyl butane Pentane Hexane Heptane Octane Nonane Decane Dodecane Tetradecane Cumene (iso Propyl Benzene) Ethyl Acetate Iso Propyl Acetate Propyl Acetate sec-Butyl Acetate 3-Carene tert-butyl Acetate Amyl Acetate n-Butyl Acetate Limonene alpha-Pinene beta-Pinene Benzyl acetate Methyl butyrate	By thermal desorption from diffusive or pumped sorbent tubes (GC-MS method) Documented In-House Method C51 using GC-MS	A



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LAND-FILL, DIGESTER and RELATED GASES (cont'd)	Analysis for Volatile Organic Compounds: (cont'd) 1,3-butadiene 1-pentene Furan Ethyl buyrate 1-pentanethiol 1-Propanethiol 1-Butanethiol Benzene Toluene Ethylbenzene m/p-Xylene 2-Butoxy ethanol o-Xylene Vinyl Chloride Chloroethane Freon 11 Freon 113 Freon 12 Freon 21 Freon 22 1,1-dichloroethylene Dimethyl sulphide Dichloromethane Carbon Disulphide Trans-1,2-dichloroethylene Cis-1,2-dichloroethylene 1,1-dichloroethane Ethyl methyl sulphide Chloroform Bromodichloromethane Dibromochloromethane Cis-1,3-dichloropropene Dimethyl disulphide 1,1,1-trichloroethane 1,1,2-trichloroethane 1,2-dichloroethane Carbon Tetrachloride Diethyl sulphide Diethyl disulphide Trichloroethylene Tetrachloroethylene Chlorobenzene Bromoform 1,2-dichlorobenzene 1,3-dichlorobenzene	By thermal desorption from diffusive or pumped sorbent tubes (GC-MS method) Documented In-House Method C51 using GC-MS (cont'd)	



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LAND-FILL, DIGESTER and RELATED GASES (cont'd)	Bulk components: Methane Ethane Ethene Acetylene Helium Hydrogen Oxygen Nitrogen Carbon Dioxide Propane isobutene n-butane	Documented In-House Method C72	A
	Carbon Monoxide	Documented In-House Method C227 by GC-FID	A
RECOVERED SOLID FUELS	Determination of biomass content	Documented In-House Method C235 based on BS EN 15440:2011	A
	Calorific value	Documented In-House Method PT 49 based on BS EN 15400:2011 using an isoperibol bomb calorimeter	A
LIQUID FUELS	Calorific value from 10 to 25 MJ/kg	Documented In-House Method PT 51 based on BS EN 15400:2011 using an isoperibol bomb calorimeter	A
WATERS and ASSOCIATED MATERIALS Groundwater and surface water only	pH	Documented In-House Method C3	A
MICROSCOPY	Grain size	BS EN 623-3:2001 DIHM M3 BS ISO 13356:2015:Clause 4.3	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
NON-METALLIC MATERIALS and PRODUCTS - ceramics, glasses, minerals, slags, ores, dusts and oxides	Mineral phase identification and microstructure characterisation	Documented In-House Methods M24 & M25 by optical and electron microscopy and energy dispersive microanalysis	A
	Mineral phase identification and microstructure characterisation	Documented In-House Methods M7 and M12 by X-ray diffraction	A
	Quantitative determination of phases	Documented In-House Methods M8, M9, and M30, by X-ray diffraction	A
HYDROXYAPATITE and CALCIUM PHOSPHATE materials	Relative crystallinity and mineral composition	ISO 13779-3:2008	A
NATURAL STONE including natural stone modular tiles	Petrographic examination	BS EN 12407:2007 BS EN 12057:2004 Documented In-House method 27	A
	Denomination criteria	BS EN 12440:2008	A
COLOUR MEASUREMENT CLAYS, POWDERS and GRANULAR MATERIALS	Colour measurement	Documented In-House Methods WW21:2016	A
NON-METALLIC MATERIALS and PRODUCTS - ceramics, glasses, minerals, slags, ores, dusts and oxides	Colour measurement	Documented In-House Methods WW21:2010 and WW22:2016 BS 8493:2008 + A1:2010	A
OPAQUE MATERIALS - near-white	Indexes of whiteness and yellowness	ASTM E313-10	A
PLASTICS	Colour measurement	Documented In-House Methods WW21:2016 and WW22:2016	A
END			



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Accreditation for the purpose of Notified Body Activity taking into account EA2/17

Directive / Regulation	Conformity Assessment procedure/ Module/article	Category of products or individual products	Essential requirements: Product specification / Properties/Standards
The Construction Products Regulation (EU) No 305/2011	Annex V - Testing Laboratory (AVCP) System 3	97/740/EC Masonry and related products (2/3): - Tension straps (in walls and partitions), Joist hangers (in walls and partitions), Ties (in walls and partitions).	EN 845-1:2013
	Annex V - Testing Laboratory (AVCP) System 3	97/740/EC Masonry and related products (2/3) : - Bed joint reinforcement (in walls and partitions).	EN 845-3:2013
	Annex V - Testing Laboratory (AVCP) System 3	97/740/EC Masonry and related products (2/3): - Lintels (in walls and partitions).	EN 845-2:2013
	Annex V - Testing Laboratory (AVCP) System 3	97/808/EC Floorings (2/2) : - Rigid flooring products (a) Components: paving units, tiles, mosaics, parquet, decking of mesh or sheet, floor gratings, rigid laminated floorings, wood based products (for internal uses including enclosed public transport premises).	EN 14411:2012
	Annex V - Testing Laboratory (AVCP) System 3	98/436/EC Roof coverings, rooflights, roof windows and ancillary products (2/6) : - Roofing tiles, slates, stones and shingles (for uses subject to reaction to fire regulations).	EN 1304:2005



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Directive / Regulation	Conformity Assessment procedure/ Module/article	Category of products or individual products	Essential requirements: Product specification / Properties/Standards
The Construction Products Regulation (EU) No 305/2011 (cont'd)	Annex V - Testing Laboratory (AVCP) System 3	98/436/EC Roof coverings, rooflights, roof windows and ancillary products (3/6) : - Roofing tiles, slates, stones and shingles (for uses subject to external fire performance regulations).	EN 1304:2005
	Annex V - Testing Laboratory (AVCP) System 3	98/437/EC Internal and external wall and ceiling finishes (2/5):- Suspended ceilings (kits) (as internal or external finish in ceilings subject to safety in use requirements).	EN 13964:2004 EN 13964:2004+A1:2006
	Annex V - Testing Laboratory (AVCP) System 3	99/470/EC Construction adhesives (1/2) : - Adhesives for tiles (for internal and external uses in buildings and other civil engineering works).	EN 12004:2007+A1:2012

END