


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	<h3>CERAM</h3>	
	<p>Issue No: 051</p>	<p>Issue date: 10 January 2012</p>
	<p>(CERAM Research Limited) Queens Road Penkhull Stoke-on-Trent Staffordshire ST4 7LQ</p>	<p>Contact: Emma Tang Tel: +44 (0)1782 764444 Fax: +44 (0)1782 412331 E-Mail: emma.tang@ceram.com Website: www.ceram.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 (CERAM Research Limited) Queens Road Penkhull Stoke-on-Trent Staffordshire ST4 7LQ</p> <p>Local contact Emma Tang Tel: +44 (0)1782 76428 Fax: +44 (0)1782-412331 EMail: emma.tang@ceram.com</p>	<p>Chemical, geological, physical and mechanical testing of construction and building materials, refractories and ceramics, recycled materials, tableware and environmental samples including surface analysis by SIMS, mineral identification by SEM and colour measurement.</p>	A
<p>Address CERAM UK Analytical Ltd Unit F1 Copley Hill Industrial Estate Whitehall Road Leeds West Yorkshire LS12 1HE</p> <p>Local Contact Jim Noone Tel: +44 (0)113 245 6303 Fax: +44 (0)113 245 5975 EMail: jim.noone@ukanalytical.com Website: www.ceram.com</p>	<p>Chemical & Physical tests on Construction & Building Materials and soils</p>	B

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>Sampling of landfill gases and slip resistance of paved surfaces</p>	C



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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 1881:Part 116:1983 BS 1881:Part 111:1983 BS EN 12390-1:2000 BS EN 12390-2:2009 BS EN 12390-3:2009	B B A A A
	Compressive Strength of cores	BS 1881-120:1983 BS EN 12504-1:2009	B A
	Density	BS 1881-114:1983 BS EN 12390-7:2009	B A
CALCIUM SILICATE (SANDLIME AND FLINTLIME BRICKS)	Dimensions	BS 187:1978	A
	Compressive strength	BS 187:1978	A
CLAY BRICKS	Dimensions	BS EN 772-16:2000	A
	Compressive strength	BS EN 772-1:2000	A
	Water absorption	BS EN 772-7:1998 BSEN 771-1:2003 + A1:2005; Annex C	A
	Net and gross dry density	BS EN 772-13:2000	A
	Initial rate of suction	BS EN 772-11:2000	A
	Net volume and percentage voids	BS EN 772-3:1998	A
DAMP PROOF COURSE UNITS	Water absorption	BS EN 772-7:1998	A



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CLAYS, POWDERS, BUILDING SANDS and other granular materials	Particle size distribution - dry sieving	BS 1796-1:1989 BS 1199 and 1200:1976 ISO 2591-1:1988	A
	Particle size distribution (0.1 to 100 micron)	BS EN 725-5:2007	A
	Specific surface area	Documented In-House Method PT 50 based on BS ISO 9277:1995	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
PRECAST CONCRETE MASONRY UNITS	Flatness of faces	BS EN 772-20:2000	A
	Dimensions	BS EN 772-16:2000	A
	Compressive strength	BS EN 772-1:2000	A
	Bending tensile strength	BS EN 772-6:2001	A
	Percentage area of voids	BS EN 772-2:1998	A
	Net and gross dry density	BS EN 772-13:2000	A
	Water absorption due to capillary action	BS EN 772-11:2000	A
	Moisture expansion	BS EN 772-19:2000	A
	Moisture movement	BS EN 772-14:2002	A
	MANUFACTURED STONE MASONRY UNITS	Dimensions	BS EN 771-5:2005
Compressive strength		BS EN 771-5:2005	A
Drying shrinkage		BS EN 771-5:2005	A



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MORTARS, SCREEDS and PLASTERS	Flexural and compressive strength of hardened mortar	BS EN 1015-11:1999	A
	Compressive strength - including curing	BS EN 1015-11:1999	A
	Bulk density of hardened mortar	BS EN 1015-10:1998	A
	Dry bulk density of hardened mortar	BS EN 1015-10:1998	A
CLAY PAVERS	Transverse breaking load	BS EN 1344:2002: Annex D	A
	Abrasion	BS EN 1344:2002: Annex E	A
	Freeze thaw resistance	BS EN 1344:2002: Annex C	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
CAST STONE	Compressive strength - cube crushing test	BS 1217:2008	A
	Capillary absorption	BS 1217:2008	A
	Initial surface absorption	BS 1217:2008	A
	Drying shrinkage	BS 1217:2000	A
NATURAL STONE including modular tiles, roofing & cladding and masonry units	Determination of geometric characteristics on units	BS EN 12057:2004 BS EN 771-6:2005 BS EN 13373:2003	A
	Compressive strength - masonry units only	BS EN 772-1:2000	A
	Flexural strength under concentrated load - all except roofing & cladding	BS EN 12372:2006	A



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NATURAL STONE including modular tiles, roofing & cladding and masonry units (cont'd)	Flexural strength under constant moment - modular tiles only	BS EN 13161:2001	A
	Water absorption at atmospheric pressure - modular tiles and external paving only	BS EN 13755:2002	A
	Water absorption coefficient by capillarity - modular tiles only	BS EN 1925:1999	A
	Water absorption coefficient by capillarity - masonry units only	BS EN 772-11:2000	A
	Real & apparent density and open & true porosity - modular tiles & masonry only	BS EN 1936:2006	A
	Dimensions - external paving only	BS EN 1341:2001: Annex A	A
	Determination of slip resistance by means of the pendulum tester - modular tiles only	BS EN 14231:2003	A, C
	Unpolished slip resistance of external paving slabs	BS EN 1341:2000: Annex C	A, C
CLAY ROOFING TILES for discontinuous laying	Geometric characteristics	BS EN 1024:1997	A
	Flexural strength	BS EN 538:1994	A
CONCRETE ROOFING TILES and FITTINGS	Transverse strength	BS EN 491:2004	A
SLATE AND STONE PRODUCTS for discontinuous roofing and cladding	Length and width and the deviation from the specified length and width	BS EN 12326-2:2000: Clause 5	A
	Thickness	BS EN 12326-2:2000: Clause 8	A
	Failure load in bending	BS EN 12326-2:2000: Clause 10	A
	Water absorption	BS EN 12326-2:2000: Clause 11	A



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CLAY ROOFING TILES and FITTINGS	Freezing test	BS EN 539-2:2006: Method D	A
NATURAL STONE	Determination of slip resistance by means of the pendulum tester	BS EN 14231:2003	A, C
	Unpolished slip resistance of paving slabs	BS EN 1341:2000: Annex D	A, C
	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	Tensile loading	BS 5080-1:1993	A
	Resistance to loading in shear	BS 5080-2:1986	A
	Tension testing of metal anchors and metal injection anchors	ETAG No 001:1997:Guidelines for European Technical Approval of Metal Anchors for use in Concrete: Annex A	A
	Load capacity and load deflection of joist hangers	BS EN 846:8:2000 BS EN 845-1:2003 + A1:2008	A
	Load capacity of metal suspension and connecting components for Suspended Ceilings	BS EN 13964:2004 + A1:2006: Clause 5.3	A
THREE-DIMENSIONAL NAILING PLATES	Strength and deformation characteristics	ETAG 015:2002 BS EN 26891:1991 and EOTA Technical Report TR 016:February 2002	A
	Moisture content, density and standard atmosphere for conditioning of timber members	ISO 3130:1975 ISO 3131:1975 ISO 554:1976	A



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PLATFORM FLOORS - full access floor systems	Concavity and convexity	PSA MOB PF2PS/SPU Section T1.00 March 1992	A
	Twist	PSA MOB PF2PS/SPU Section T2.00 March 1992	A
	Panel squareness	PSA MOB PF2PS/SPU Section T3.00 March 1992	A
	Small scale fire test	PSA MOB PF2PS/SPU Section T20.00 March 1992	A
	Thermal properties	PSA MOB PF2PS/SPU Section T20a.00 March 1992	A
	Safety factor load	PSA MOB PF2PS/SPU Section T11.00 March 1992	A
	Pedestal strength - horizontal (moment of 90Nm)	PSA MOB PF2PS/SPU Section T15.00 March 1992	A
	Pedestal strength - vertical	PSA MOB PF2PS/SPU Section T16.00 March 1992	A
	Uniformly distributed load	PSA MOB PF2PS/SPU Section T10.00 March 1992	A
	Pedestrian dynamic load	PSA MOB PF2PS/SPU Section T14.00 March 1992	A
	Effect of temperature	PSA MOB PF2PS/SPU Section T17.00 March 1992	A
	Effect of humidity	PSA MOB PF2PS/SPU Section T18.00 March 1992	A
	300 mm square loading	PSA MOB PF2PS/SPU Section T7.00 March 1992	A
	25 mm square point loading	PSA MOB PF2PS/SPU Section T8.00 March 1992	A
	25 mm square point loading on perimeter cut panel edge	PSA MOB PF2PS/SPU Section T8a.00 March 1992	A
Four point loading	PSA MOB PF2PS/SPU Section T9.00 March 1992	A	



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PLATFORM FLOORS - full access floor systems (cont'd)	Soft body impact	PSA MOB PF2PS/SPU Section T12.00 March 1992	A
	Hard body impact	PSA MOB PF2PS/SPU Section T13.00 March 1992	A
	Free play in pedestals	PSA MOB PF2PS/SPU Section T5.00 March 1992	A
	Air leakage rate	PSA MOB PF2PS/SPU Section T6.00 March 1992	A
SUSPENDED CEILINGS - membrane components	Flexural tensile strength test - determination of deflection - determination of load-bearing capacity	BS EN 13964:2004 + A1:2006: Annex F BS EN 13964:2004 + A1:2006: Annex A1	A
WALL PANELS - timber frame	Racking strength and stiffness	BS EN 594:2011	A
LINTELS	Flexural resistance and shear resistance	BS EN 846-9:2000 BS EN 845-2:2003	A
	Dimensions and bow	BS EN 846:11:2000	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 1052-2:1999	A
	Lateral strength - uniformly distributed loads	Documented In-House Method BCRL-TN284:1979	A
WALL TIES	Bond strength of prefabricated bed-joint reinforcement in mortar joints	BS EN 846-2:2000 BS EN 845-3:2003 + A1:2008	A
	Tensile and compressive load capacity and load displacement characteristics (couplet test)	BS EN 846-5:2000 BS EN 845-1:2003 + A1:2008	A



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WALL TIES (cont'd)	Tensile and compressive load capacity and load displacement characteristics (single end test)	BS EN 846-6:2000 BS EN 845-1:2003 + A1:2008	A
SHEAR TIES AND SLIP TIES	Shear load capacity and load displacement characteristics (couplet test for mortar joint connection)	BS EN 846-7:2000 BS EN 845-1:2003 + A1:2008	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 845-1:2003 + A1:2008	A
Prefabricated bed joint re-inforcement	Shear load capacity of welds	BS EN 846-3:2000 BS EN 845-3:2003 + A1:2008	A
End of Section			
PHYSICAL PROPERTIES TILES & FLOORING			
ADHESIVES for use with ceramic tiles and mosaics	Tensile adhesion strength	BS EN 1348:2007 BS EN 12004:2007	A
	Shear adhesion strength	BS EN 1324:2007 BS EN 12004:2007	A
	Slip	BS EN 1308:2007	A
	Open time	BS EN 1346:2007	A
	Wetting	BS EN 1347:2007	A



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GROUTS - for use with ceramic tiles	Shear strength	BS EN 12003:2008 BS EN 12004:2007	A
	Flexural strength	BS EN 12808-3:2008	A
	Deformation	BS EN 12002:2008	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 12875-4:2006	A
CERAMIC FLOOR and WALL TILES	Chemical resistance	BS EN ISO 10545-13:1997	A
	Resistance to stains	BS EN ISO 10545-14:1997	A
	Modulus of rupture and breaking strength	BS EN ISO 10545-4:1997	A
	Scratch hardness of surface according to Mohs	BS 6431-13:1991 BS EN 101:1991	A
	Resistance to thermal shock	BS EN ISO 10545-9:1996	A
	Moisture expansion	BS EN ISO 10545-10:1997	A
	Frost resistance	BS EN ISO 10545-12:1997	A
	Dimensions and surface quality	BS EN ISO 10545-2:1997	A
CERAMIC FLOOR and WALL TILES	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	A, C
	Linear thermal expansion	BS EN ISO 10545-8:1997	A



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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
	Resistance to deep abrasion	BS EN ISO 10545-6:1997 BS EN 1344:2002	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	A, C
CLAY PAVERS	Slip resistance	BS EN 13845:2005	A, C
	Skid resistance value	BS 7976-2:2002	A, C
	Unpolished slip/skid resistance	BS EN 1344:2002: Annex F	A, C
TERRAZZO TILES	Abrasion	BS EN 1344:2002: Annex E	A
	Transverse strength	BS EN 13748-1:2004 BS EN 13748-2:2004	A
PAVED SURFACES	Water absorption	BS 4131:1973	A
	Unpolished slip/skid resistance	BS 7976-2:2002	C
End of Section			
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



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REFRACTORY MATERIALS (cont'd)	Sieve analysis	BS 1902-3.3:1981	A
	Grain density	BS 1902-3,6:1984 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
	Thermal conductivity - by hot-wire method (parallel) at temperatures from ambient to 1475K	ISO 8894-2:2007	A
CLAYS, POWDERS, BUILDING SANDS and other granular materials	Particle size distribution - dry sieving	BS 1796-1:1989 BS 1199 and 1200:1976 ISO 2591-1:1988	A
	Particle size distribution (0.1 to 100 micron)	BS EN 725-5:2007	A
	Specific surface area	Documented In-House Method PT 50 based on BS ISO 9277:1995	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
	Permanent change in dimensions on heating	BS EN 993-10:1998 BS 1902-5.10:1998 ASTM C113 - 02 (08)	A



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REFRACTORY MATERIALS - bricks, blocks and dense shaped products (cont'd)	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 ASTM C832 - 00 (10)	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
	True density	BS EN 993-2:1995 BS 1902-3.4:1995	A
REFRACTORY MATERIALS - ceramic fibre products	Shrinkage on heating	BS EN 1094-6:2000 BS 1902-5.9:2000	A
REFRACTORY MATERIALS - shaped insulating products	Cold crushing strength	BS EN 1094-5:1995	A
	Permanent change in dimensions on heating	BS EN 1094-6:2000 BS 1902-5.9:2000	A
	Bulk density	BS EN 1094-4:1995	A
	Bulk density by mass and dimensions	ASTM C134 -95 (10)	A
REFRACTORY MATERIALS - unshaped refractories used in monolithic construction	Cold crushing strength	BS EN 1402-6:2003: Section 6	A
	Moisture content	BS EN 1402-6:2003: Section 7.1.3 BS EN 1402-7:2003: Section 5.2	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 13356:1997 ISO 6474-1:2010 BS 7253-2:1994	A
	Flexural strength of advanced ceramics at ambient temperature	ASTM C1161 - 02c(08) e1	A
	Fracture toughness of advanced ceramics at ambient temperature using SENB method	Documented In-House Method R118	A
REFRACTORY MATERIALS and PRODUCTS	Stress-strain-time relation - at temperatures from ambient to 1875K	Documented In-House Method R100:1990	A
	Work of fracture	Documented In-House Method R114:2000	A
CONCRETE - hardened	Youngs modulus from ambient to 1470K	Documented In-House Method R117:2002 using resonant frequency	A
	Modulus of rigidity	Documented In-House R117:2002 using resonant frequency	A
	Poisson's ratio	Documented In-House R117:2002 using resonant frequency	A
INORGANIC THERMAL INSULATING MATERIALS	Resistance to compression	BS 2972:1989	A
	Flexural strength	BS 2972:1989	A
METALS	Youngs modulus from ambient to 1470 K	Documented In-House Method R117:2002 using resonant frequency	A



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METALS (cont'd)	Modulus of rigidity	Documented In-House Method R117:2002 using resonant frequency	A	
	Poisson's ratio	Documented In-House Method R117:2002 using resonant frequency	A	
	NON-METALLIC MATERIALS and PRODUCTS - ceramics, glasses, minerals, slags, ores, dusts and oxides	Youngs modulus from ambient to 1470 K	Documented In-House Method R117:2002 using resonant frequency	A
		Modulus of rigidity	Documented In-House Method R117:2002 using resonant frequency	A
PRECAST CONCRETE PAVING BLOCKS	Poisson's ratio	Documented In-House Method R117:2002 using resonant frequency	A	
	Youngs modulus from ambient to 1470K	Documented In-House Method R117:2002 using resonant frequency	A	
	Modulus of rigidity	Documented In-House Method R117:2002 using resonant frequency	A	
	Poisson's ratio	Documented In-House Method R117:2002 using resonant frequency	A	
End of Section				
PHYSICAL PROPERIES OF TABLEWARE AND TABLETOP ITEMS including ceramic ware, glassware, cookware, candles, etc				
	CERAMIC TABLEWARE & WHITEWARES including china and vitrified hotel ware	Water absorption	BS EN 1217:1998	A
	Chipping and impact test	BS EN 12980:2000	A	



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CERAMIC TABLEWARE & WHITEWARES including china and vitrified hotel ware (cont'd)	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
MATERIALS & ARTICLES in contact with FOOD including ceramic, glass, glass-ceramic or plastic cookware	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
	Crazing resistance of ceramic articles	BS EN 13258:2003	A
	GLASSWARE	Annealing stress (Polariscope)	Documented In-House Method PT 39:2006
CERAMIC TABLEWARE	Water absorption	BS 5416:1990	A
	Translucency	BS 5416:1990	A
	Translucency	EEC Reg No 679/72	A
VITRIFIED HOTELWARE	Water absorption	BS 4034:1990	A
	Determination of crazing	BS 4034:1990	A
WHITEWARES	Thermal expansion	Specifications technically equivalent to BS 1902-1A:1966	A
	Crazing resistance of ceramic articles	BS EN 13258:2003	A
	Water absorption	ASTM C373-88(06)	A



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WHITEWARES (cont'd)	Bulk density	ASTM C373-88(06)	A
	Apparent porosity	ASTM C373-88(06)	A
	Apparent specific gravity	ASTM C373-88(06)	A
	Water absorption	BS EN 1217:1998	A
UTENSILS mechanical dishwashing resistance	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 and oxides	Determination of trace elements	Documented In-House Method C12 using ICP optical emission spectrometry	A
	Determination of chloride, nitrate and sulphate ion (water soluble)	Documented In-House Method C18 using ion chromatography	A
	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



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NON-METALLIC MATERIALS and PRODUCTS - ceramics, glasses, minerals, slag, ores, dusts and oxides (cont'd)	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
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 12677:2003	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 12677:2003 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: Sections 5.2.4 and 5.3.5	A
	Determination of free carbon by indirect methods	BS EN ISO 21068-2:2008: Section 6.5.2	A
End of Section			
CHEMICAL TESTING OF CONSTRUCTION MATERIALS			
MORTARS for bricklaying, plastering and rendering	Chemical analysis and calculation of mix proportions	UKA In-House Method 4 based on BS 4551:2005 + A1:2010	B
		Documented In-house Method C43 based on BS 4551:2005 + A1:2010	A
	Chloride content	BS 4551:2005 + A1:2010	B



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CONCRETE HARDENED	Chemical analysis and calculation of mix proportions	BS 1881-124:1988	B
	Chloride content	BS 1881-124:1988	B
	Sulphate content	BS 1881-124:1988	B
PULVERIZED-FUEL ASH	Chloride content	BS 3892-1:1997 EN 196-21:1992	B
	Sulphate content	BS 3892-1:1997 EN 196-2:2005	B
	Loss-on-ignition	BS 3892-1:1997 EN 196-2:2005	B
	Moisture content	Documented In-House Method UKA8	B
	Determination of oxides by Energy Dispersive XRF	Documented In-House Method UKA15	B
FLY ASH	Free Calcium Oxide Content	Documented In-House Method UKA13 based on BS EN 451-1	B
SOILS, SILTS & SLUDGES	pH value	Documented In-House Method UKA9	B
	Sulphate content	Documented In-House Method UKA10	B
SOILS for civil engineering purposes	Sulphate content of soil and ground water	BS 1377-3:1990	B
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



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CEMENT (cont'd)	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
End of Section			
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 ISO 8391-1:1986	A
	Metal release from glazed pottery	AS/NZ 4371:1996 + A1	A



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CERAMIC WARE, GLASSWARE, GLASS CERAMIC WARE and VITREOUS ENAMEL WARE (cont'd)	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 (excluding glass conditioning)	Documented In-House Method C216 based on Massachusetts State Legislation	A
	Metal release from glazed pottery	Documented In-House Method C102 based on American FDA	A
End of Section			
CHEMICAL TESTING ORGANIC & ENVIRONMENTAL GASES AND AIR	Bulk components: Methane Ethane Ethene Acetylene Hydrogen Oxygen Nitrogen Carbon Dioxide Propane isobutene n-butane Hydrogen sulphide Carbon Monoxide	Documented In-House Method C72 Documented In-House Method C74 using gas chromatography Documented In-House Method C227 by GC-FID	A A A



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GASES AND AIR (cont'd)	Volatile Organic Compounds	By thermal desorption from diffusive or pumped sorbent tubes (GC-MS method) Documented In-House Method C51 using GC-MS	A
	Aldehydes and ketones in the range 0.01 - 15 ppm and on dilutions	Documented In-House Method C233	A
IMPINGERS, GLASS FIBRE FILTERS AND THEIR WASHINGS	Isocyanates in the range 0.1 - 10 ppm and on dilutions:- 2,6-toluene diisocyanate (2,6-TDI) 1,6-hexamethylene diisocyanate (1,6-HDI) 2,4-toluene diisocyanate (2,4-TDI) 4,4'-methylenebiphenyl diisocyanate (4,4'-MDI)	Documented In-House Method C234 based on OSHA methods 42 and 47	A
LAND-FILL, DIGESTER and RELATED GASES	Sampling of landfill gas emissions, from pipelines, boreholes and raw gas	Documented In-House Method C228 based on LFTGN 04	C
	Hydrogen sulphide	Documented In-House Method C74 using gas chromatography	A



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LAND-FILL, DIGESTER and RELATED GASES	Analysis for Volatile Organic Compounds - Hexamethyldisiloxane Hexamethylcyclotrisiloxane Octamethyltrisiloxane Octamethylcyclotetrasiloxane Decamethyltetrasiloxane Decamethylcyclopentasiloxane Dodecamethylcyclohexasiloxane 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 1,2-butadiene 1-pentene Furan Ethyl buyrate 1-pentanethiol 1-Propanethiol 1-Butanethiol Benzene Toluene Ethylbenzene m/p-Xylene	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) - 2-Butoxy ethanol Ethyl mercaptan o-Xylene Vinyl Chloride Chloroethane Freon 11 Freon 113 Freon 12 Freon 21 Freon 22 Freon 114 Freon 142b 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	A



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LAND-FILL, DIGESTER and RELATED GASES (cont'd)	Bulk components: Methane Ethane Ethene Acetylene 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
	Aldehydes and ketones in the range 0.01 - 15 ppm and on dilutions	Documented In-House Method C233	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
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MICROSCOPY NON-METALLIC MATERIALS and PRODUCTS - ceramics, glasses, minerals, slags, ores, dusts and oxides	Grain size	BS EN 623-3:2001 Documented In-House Method M3 BS ISO 13356:2008: Clause 4.3	A
	Mineral phase identification and microstructure characterisation	Documented In-House Methods M22, 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, M10 and M30, by X-ray diffraction	A
NATURAL STONE including natural stone modular tiles	Petrographic examination	BS EN 12407:2007 BS EN 12057:2004 Documented In-House method M27	A
	Denomination criteria	BS EN 12440:2008	A
SLATE AND STONE PRODUCTS for discontinuous roofing and cladding	Petrographic examination	BS EN 12326-2:2000: Clause 17	A
End of Section			



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SURFACE ANALYSIS HIGH - VACUUM COMPATIBLE MATERIALS Homogenous layers and substrates	Quantitative or Semi-Quantitative Elemental Analysis for: Dose measurement, impurity concentration measurement Elements: H to U Level: ppb to ~ 1At%	Documented In-House Procedures using Secondary Ion Mass Spectrometry (SIMS) SIMS SOPs - OP53 and OP54	A A
End of Section			
COLOUR MEASUREMENT CLAYS, POWDERS and GRANULAR MATERIALS	Colour measurement	Documented In-House Methods WW21:2010	A
NON-METALLIC MATERIALS and PRODUCTS - ceramics, glasses, minerals, slags, ores, dusts and oxides OPAQUE MATERIALS - near-white PLASTICS	Colour measurement Indexes of whiteness and yellowness Colour measurement	Documented In-House Methods WW21:2010 and WW22:2011 BS 8493:2008 + A1:2010 ASTM E313-2000(10) Documented In-House Methods WW21:2010 and WW22:2011	A A A
END			