


# 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>	<b>BRE GLOBAL LIMITED</b> <b>Incorporating LPC Testing, BRE Testing</b>	
	<b>Issue No: 072    Issue date: 01 March 2012</b>	
	<b>Bucknalls Lane</b> <b>Garston</b> <b>Watford</b> <b>WD25 9XX</b>	<b>Contact: Mr M Pratt</b> <b>Tel: +44(0)1923665114</b> <b>Fax: +44 (0)1923 664994</b> <b>E-Mail: prattm@bre.co.uk</b> <b>Website: www.bre.co.uk</b>
<b>Testing performed by the Organisation at the locations specified below</b>		

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

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> Bucknalls Lane Garston Watford WD25 9XX  <b>Local contact:</b> Mr N P Green	Acoustics Construction Fire resistance & protection Reaction to fire Electrical EMC, IT, Radio & Telecoms Airborne organic compounds Wood & wood preservatives Doors and Windows Fire suppression Extinguishers	A
<b>Address</b> BRE GLOBAL LIMITED Incorporating LPC Testing, BRE Testing BRE NE Dawsons Wharf Riverside Park Road Middlesbrough TS2 1UT  <b>Contact:</b> Mr J Raybould	<b>CONSTRUCTION</b> Reaction to fire Extinguishers	C

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

Location details	Activity	Location code
All locations suitable for the activities listed  <b>Contact:</b> Mr N P Green	Acoustics Environmental Sampling Building Air Leakage	B



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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
APPLIED PROTECTION TO STRUCTURAL MEMBERS	Fire resistance	DD ENV 13381-4:2002 (Test Method only) Pr ENV 13381-1:2008 Pr ENV 13381-2:2008 Pr ENV 13382-3:2008 Pr EN 13381-4:2009 Pr ENV 13382-5:2009 Pr ENV 13382-6:2009 Pr ENV 13382-7:2009 BS EN 13381-8:2010	A
BEAMS	Fire resistance	BS 476:Part 8:1972 Section 5 BS 476:Part 21:1987 Section 5 FTSG Resolutions 47 & 70 BS EN 1365-3:2000 ISO 834:1975	A
BUILDING ELEMENTS - GENERAL	Fire resistance	BS 476:Part 8:1972 BS 476:Part 20:1987 BS EN 1363-1:1999 BS EN 1363-2:1999 AS 1530:Part 4:1997 AS 1530:Part 4:2008 Hydrocarbon DoE FRS 14-84:1990 ISO 834-1:1999 FTSG. Resolutions 47, 51, 53, 68, 70, 71, 77, 78, 79 ASTM E119:2008a UL 263:2003	A
	Classification using data from fire resistance tests excluding ventilation services	BS EN 13501-2:2007 + A1:2009	A
BUILDINGS	Building air leakage	BS EN 13829:2001 ATTMA TS1:2007	B
	Building Air Leakage Test Dwellings	ATTMA TSL1:2010	B
	Building Air Leakage Test Non-dwellings	ATTMA TSL2:2010	B



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BUILDING ELEMENTS	<u>Acoustical Tests</u> Measurement of airborne sound insulation	BS EN ISO 140-3:1995 BS 2750:Part 3:1995	A
	Field measurement of airborne sound insulation	BS EN ISO 140-4:1998 ISO 140-4:1998	B
BUILDING ELEMENTS - small	<u>Acoustical Tests</u> Measurement of airborne sound insulation	BS EN 20140-10:1992 ISO 140-10:1991	A
BUILDING MATERIALS/ PRODUCTS	<u>Fire Tests</u> Calorimeter measurements	Documented In-House Method No SP8/12/T:1999 and SP8/13/T:1999	A
	Reaction to fire	BS EN ISO 1182:2002 BS EN ISO 1182:2010 BS EN ISO 11925-2:2002 BS EN 13823:2002 prEN SBI:1999 BRE Fire Note 9:1999 BS 8414-1:2002 BS 8414-2:2005 BS 476-3:1958 BS 476-3:2004	A
	Non-combustibility	BS 476:Part 4:1970(1984) ISO 1182:1990 AS 1530:Part 1:1994	A
	Heat emission from buildings	BS 476:Part 11:1982(1988)	A
	Ignitability	BS 476:Part 12:1991 BS 476:Part 13:1987	A
	Fire propagation in materials and products	BS 476:Part 6:1989 + A1:2009	A
	Surface spread of flame	BS 476:Part 7:1997 FTSG Resolution 81	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BUILDING MATERIALS/ PRODUCTS (cont'd)	Specific optical density of smoke from solids	BS 6401:1983 ASTM/E 662/97 ASTM/E 662/03 ASTM/E 662/06	A
	Gross calorific value (Bomb calorimeter test)	BS EN ISO 1716:2002 BS EN ISO 1716:2010	A
	Single burn item	BS EN 13823:2002	A
	Calorimeter measurements	Documented In-house Method No SP8/12/T:1999 and SP8.13/T:1999	A
	Room test	BS 476-33: 1993, ISO 9705:1993 UBC 26-3(1997)	A
	Cone calorimeter	BS 476-15:1993 ISO 5660-1:1993 ASTM E 1354:1997 ISO5660-1 & 2:2002 prCEN/TS 45545-2008	A
	<b>Naval Engineering Standards:</b>		A
	Smoke Index (Category 2)	Def Stan 711-Issue 2:2006 NES 711	
	Toxicity Index (Category 2)	NES 713 Def Stan 713-Issue 2:2006	
	Oxygen Index (Category 2)	NES 714 ISO 4589-2:1999 (Inc Amd 1)	
	Temperature Index (Category 2)	NES 715 ISO 4589-3:1996	
	<u>European Harmonised Fire Test</u>		
	Conditioning	BS EN ISO 13238:2001	A
Gross Calorific value (Bomb calorimeter test)	BS EN ISO 1716:2002		
Non-combustibility	BS EN ISO 1182:2002		
Small Flame test	BS EN ISO 11925-2:2002		
Single burning item test	BS EN 13823:2002		
Room corner test	BS EN 14390:2007		
Reaction to fire classification	BS EN 13501-1:2002 BS EN 13501-1:2007+A1:2009		



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BUILDING MATERIALS/ PRODUCTS (cont'd)	Reaction to fire	BS 8414-1:2002 BS 8414-2:2005 FM Approval Standard 4880 Fire performance of external thermal insulation for walls of multi-storey buildings Annex A: Building Research Standard 135:2003	A&C
	Room test	UBC 26-3(1997)	C
	Railway Applications	CEN TS 45545-2:2006:final draft A BS 6853:1999 (inc Amd 1)	C
BUTTERFLY STOP VALVES	<u>Performance Tests</u>	Documented In-house Method LPS 1185:Issue 3:1993	A
CABLES and MATERIALS	Oxygen index at elevated temperatures	BS EN ISO 4589-3:1996 LUL 2 - 01001 - 002: A1: 2003	A
	Determination of burning behaviour by Oxygen Index	BS EN ISO 4589-2:1999 ISO 4589:1996 ASTM D 2863-00 ASTM D 2863-06A	A
	Smoke density	BS 6853:1999 Annex D BS EN ISO 5659-2:1999 prEN 3475-602:1999 BSS 7324 prEN 2824-6 ATS 1000.01 Issue 5 Clause 6.2 LUL 1-085:A1:2008	A
	Emissions, Toxicity and Density	prEN 3475-601:1999 LPS 1207:1994 LPS 1207:issue 2:2003 BSS 7239 BSS 7238 BMS 13-55D BS 6853:1999 Annex B1 & B2 LUL 1-085:A£:2011	A
	Railway Applications	CEN TS 45545-2:2006: final draft A	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CEILING MEMBRANES	Fire resistance - horizontal	BS 476:Part 8:1972 Section 9 BS 476:Part 22:1987 Section 9 BS EN 1364-2:1999 FTSG Resolutions 70	A
COLUMNS	Resistance to Fire	BS 476:Part 8:1972 Section 4 BS 476:Part 21:1987 Section 6 FTSG Resolution 14 and 70 BS EN 1365-4:2000 ISO 834:1975	A
COVERINGS	Fire resistance	BS EN 14135: 2004	A
DOOR and SHUTTER ASSEMBLIES	Fire resistance	BS 476:Part 8:1972 Section 7 BS 476:Part 22:1987 Section 6, 7 & 8 FTSG Resolutions 51, 70, 71, 78 & 79 BS EN 1634-1:2008 ISO 834:1975 ISO 3008:2007 ISO/DIS 3008:2003 BS EN 81-58:2003	A
	Opening and closing test	Documented In-House Methods LPS 1056 Appendix B	A
	Intumescent seal contribution	BS ISO 12472: 2003 BS 476-23:1987 Method 6	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
DOOR ASSEMBLIES - external, single leaf	<u>Physical Tests</u> Abusive forces on handles Basic security test Closure against obstruction Cyclic operation test Operating forces Resistance to hard body impact Resistance to static torsion Resistance to soft and heavy body impact Resistance to vertical loads Slamming resistance Weathertightness	PAS 23-1:1999	A
DOOR ASSEMBLIES - external, single and double leaf	Hard body impact Infill medium removal - manual Infill medium removal - mechanical Manual check test Manipulation test Mechanical loading test Soft body impact Manual cutting test Security hardware and cylinder test (Parts 1 & 2)	PAS 24-1:2007+A1:2009	A
DOOR AND WINDOW	Air Permeability	BS EN 1026:2000	A
	Watertightness	BS EN 1027:2000	A
	Resistance to wind loads	BS EN 12211:2000	A
	Weathertightness	BS 6375:Part 1:2004	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ELECTRICAL CABLES	<u>Fire Tests</u>		
	Railway Applications	CEN TS 45545-2:2006	A
	Smoke emission	BS 7211:1998, Clause 15 BS 7211:1994, Appendix D IEC 61034-1:1997 IEC 61034-1:2005 BS EN 61034-1:2005 BS EN 50268-2:2000 LUL 2 - 01001 - 002: A1:2003 IEC 61034-2:1997 IEC 61034-2:2005 BS 7622-2: 2003 BS EN 61034-2:2005 BS 6724:1990 BS 6853:1987, Appendix B BS 6853:1999, Appendix D BS 7622-1:1993 BS 7622-2:1993 BS EN 50268-1:2000 LUL E4156: A4, Clause 10.4: 2000 BS EN 50268-1:2000 BS EN 50306-1:2002 Clause 8.3 BS EN 50306-2:2002 Clause 4:3 BS EN 50306-3:2002 Clause 4:3 BS EN 50306-4:2002 Clause 4:3 AS/NZS 1660.5.2:2005 LUL 1-085:A3:2011	A
<u>Fire Tests</u>			
	Acid & corrosive gas emission	BS EN 50267-2-1:1999 IEC 60754-1:1994 BS EN 50267-2-2:1999 BS EN 50267-2-3:1999 IEC 60754-2:1997 AS/NZS 1660 5.3:2005 AS/NZS 1660.5.4:2005 BS 6425:Part 1:1990	A





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ELECTRICAL CABLES (cont'd)	<u>Fire Tests</u>  Vertical flame propagation on a single wire cable	BS 4066-2:1980 BS 4066:Part 1:1980 IEC 60332-1-2:2004 BS EN 60332-1-2:2004 BS EN 50265-2-1:1999 IEC 60332-1-3:2004 BS EN 60332-1-3:2004 BS EN 50265-2-3:1999 IEC 60332-2-2:2004 BS EN 60332-2-2:2004 BS EN 50265-2-2:1999 BS 6387:1994, Clause 10 BS 7846:2009 Clause 17.4.2 Clause 17.4.3 Clause 17.4.4 Clause 17.4.5	A
	<u>Performance Tests</u>  Bending Impact Resistance to fire alone Resistance to fire with water Resistance to fire with mechanical shock	BS 6387:1994 Clause 8 Clause 9 Clause 11.1 Clause 11.2 Clause 11.3	A
	Resistance to fire alone	LUL E4156: A4, Clause 10.6, Category C: 2000 LUL 2-01001-005:2006	A
	Resistance to fire with water	LUL E4156: A4, Clause 10.6, Category W: 2000 LUL 2-01001-005:2006	A
	Resistance to fire with mechanical shock	LUL E4156: A4, Clause 10.6, Category Z: 2000 LUL 2-01001-005:2006	A



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ELECTRICAL CABLES (cont'd)	<u>Performance Tests</u>		
	Bending Impact Resistance to fire with mechanical shock and with water	BS 7629-1:2008 Clause 14.2 Clause 14.3 Clause 14.4	A
	Resistance to fire alone Bending Impact Resistance to fire with water Resistance to fire with mechanical shock	BS 7629-1997 Clause 16.2 Clause 16.3 Clause 16.4 Clause 16.5	A
	Resistance to fire	BS 7846:1996, Clause 19.6	A
	Resistance to fire - Category F1 Category F2 Category F3	BS 7846:2000 Clause 17.4.2 Clause 17.4.3 Clause 17.4.4	A
	Circuit Integrity	BS EN 50200:2000 BS EN 50200:2006 BS 8434-1:2003 BS 8434-2:2003 BS 8519:2010 Clause 11 BS 8434-2 + Amd 2: 2009 BS 5839-1:2008 [clause 26.2 (d) & (e)] BS 7346-6:2005 BS 8491:2008 AS/NZS 1660.5.5:2005	A
	<u>Performance Tests</u>		
Resistance to fire	LUL 2-01001-005:2006 Clause 3.2.1.6.1 IEC60331-21:1999 IEC60331-23:1999 IEC60331-25:1999 IEC60331-31:2002 IEC 60331-1:2009 IEC 60331-2:2009	A	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ELECTRICAL CABLES (cont'd)	<u>Performance Tests</u>  Specification for mineral insulated cables	BS 6207-1:1995 Clause 7.2.5 Clause 7.3.1 Clause 7.3.2 Clause 8.3 BS EN 60702-1:2002 Clause 12.4 Clause 12.5 Clause 12.6 Clause 13.8	A
	Visual Examination Inspection	BS 7629-1:2008 (clauses 7,8.1,8.2 & 11) BS 7629-1:1997 (amendment 1 & 2) Clause 7, 8:1, 11 BS 7846-2000 Clause 7, 8.1, 12 BS 7846: 2009 Clauses 7, 8.1 and 12 BS 60702:2002, Clause 9	A
	Conductor resistance	BS 6360:1991 BS 6360:2005 BS EN 60228:2005 BS 7629-1:2008 (Clause 13.2) BS 7629-1:1997 (Clause 15.3) BS 7629-2:1997 (Clause 15.3) BS 7846:2000 (Clause 16.2) BS 7846: 2009 (Clause 16.2)	A
EXTERNAL CLADDING SYSTEMS	<u>Fire Tests</u>  Fire performance & classification	Fire performance of external thermal insulation for walls of multi-storey buildings Annex A: Building Research Standard 135:2003 BRE Fire Note 9:1999 BS 8414-1:2002 BS 8414-2:2005 BR 135:annex B:DG501	A



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FACADES	<u>Acoustical Tests</u>  Field measurement of airborne sound insulation	BS EN ISO 140-5:1998	B
FIRE DETECTION & ELECTRONICS TESTING	<b>Fire detection and fire alarm systems</b>  Heat sensitive detectors - Point detectors containing static element  Point-type smoke detectors using scattered light, transmitted light or ionisation  Control and indicating equipment  Fire alarm devices - Sounders  Components of voice alarm systems - Loudspeakers  Power supply equipment  Manual call points	BS 5445:Part 5:1977 (Amd 5762) EN 54:Part 5:1976 (+ A1:1998) BS EN 54-5:2001 (incorporating Amd No 1) EN 54-5:2000 ISO 7240-5:2003  BS 5445:Part 7:1984 (Amd 5763) EN 54:Part 7:1982 (+ A1:1998) BS EN 54-7:2001 incorporating Amd No 1 + A2 (Amd 16539, 29 Sept 2006) EN 54-7:2000 ISO 7240-7:2003  BS EN 54-2:1998 + A1 (Amd 16781, 30 Nov 2006 & A2 (amd 16967, 31 Jan 2007) EN 54-2:1997 ISO 7240-2:2003  BS EN 54-3:2001 (incorporating Amd No 1 + A 2 (Amd 16462, 30 June 2006)) EN 54-3:2001  BS EN 54-24:2008 EN 54-24:2008  BS EN 54-4:1998 (incorporating Amd No 1 & 2) EN 54-4:1997 BS ISO 7240-4:2003  BS 5839:Part 2:1983 (AMD 4685 & 5085) EN 54-11:2001 (incorporating amd 1 & corrigendum No 1)	A  A  A  A  A  A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FIRE DETECTION & ELECTRONICS TESTING (cont'd)	<b>Fire detection and fire alarm systems</b>		
	Aspirating smoke detectors - Point Detectors	EN 54-20:2006	A
	Fire alarm devices - Visual alarm devices	BS EN 54-23:2010 EN 54-23:2010	A
	Sound system control and indicating equipment	ISO 7240-16:2007	A
	Voice alarm control and indicating equipment	BS EN 54-16:2008 EN 54-16:2008	A
	Requirements and test methods for multisensor detectors, which respond to smoke and heat, and smoke detectors with more than one smoke sensor	CEA 4021:1999-06 (en) CEA 4021, July 2003 (en) BS ISO 7240-15:2004	A
	Short circuit isolators and Input/output devices	CEA GEI 1-052:1997 CEA GEI 1-084:2000 BS EN 54-17:2005 BS EN 54-18:2005	A
	Optical smoke detectors	BS EN 54-12:2002 EN 54-12:2002	A
	Fire alarm systems, flame detectors, point detectors	BS EN 54-10:2002	A
	Alarm transmission and fault warning routing equipment	BS EN 54-21:2006 Clauses 4, 5, 7, 8, 9, 10.2, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9 and 10.11	A
		BS EN 54-21:2006 Clause 6	B
	<b>Smoke Alarms</b>		
Point-type smoke alarms	BS 5446-1:2000	A	
Smoke alarm devices	BS EN 14604:2005		





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<b>Fire detection and fire alarm systems</b>	<b>ENVIRONMENTAL TESTS</b> (non-explosive items) (cont'd)		
	<b>Climatic</b>		
	Temperature Change Thermal shock 2 chamber method - manual transfer Chamber size: 1.5 m x 0.9 m x 1.2 m Minimum temperature: - 40 °C Maximum temperature: 125 °C	BS EN 60068-2-14:1984 + A1:1986 Test Na	A
	High humidity - constant Humidity range: 50-96% Temperature range: 10-70 °C Chamber size: 1.5 m x 0.9 m x 1.2 m	BS EN 60068-2-78:2001: Cab BS 2011-2.1Ca:1977 (Amd 5362) IEC 68-2-3:1969 BS EN 60068-2-56:1990	A
	Damp heat - cyclic Test Db Maximum temperature: 55 °C Chamber size: 1.5 m x 0.9 m x 1.2 m	BS 2011-2.1Db:1981 (1987) IEC 68-2-30:1980 (1985) BS EN 60068-2-30:1999 BS EN 60068-2-30:2005	A
<b>Corrosion</b>			
Salt mist Chamber size: 0.8 m x 0.66 m x 0.44 m	BS 2011:Part 2.1Kb:1987 IEC 68-2-52:1996 BS EN 60068-2-52:1996 ISO 9227:1990 (NSS test)	A	
Sulphur dioxide Chamber size: 0.5 m x 0.5 m x 0.7 m	BS 2011:Part 2.1Kc:1991 IEC 68-2-42:1982 BS EN 60068-2-42:2003	A	



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<b>Fire detection and fire alarm systems</b>	<b>ENVIRONMENTAL TESTS</b> (non-explosive items) (cont'd)		
	<b>Dynamic</b>		
	Vibration - sinusoidal (at ambient temperatures) Frequency range: 2-3500 Hz Sine force (peak): 35.6 kN Maximum acceleration: 1079ms <sup>-2</sup> (110g <sub>n</sub> ) Maximum velocity: 1.8ms <sup>-1</sup> Maximum displacement: 50.8 mm (p-p)	BS EN 60068-2-6:1996:Fc IEC 68-2-6:1995 BS 2011:Part 2.1Fc	A
	Vibration - random (at ambient temperatures) Frequency range: 10-3500 Hz Sine force (peak): 35.6 kN Maximum acceleration: 74g <sub>rms</sub> Maximum velocity: 1.8ms <sup>-1</sup> Maximum displacement: 50.8 mm (p-p)	BS 2011:Fda:1973 (1984)	A
	Shock - half sine, sawtooth, trapezoidal (at ambient temperatures) Maximum force: 106 kN Maximum acceleration: 2207 ms <sup>-2</sup> (225g <sub>n</sub> ) Maximum velocity: 3.8ms <sup>-1</sup> Maximum displacement: 50.8 mm (p-p)	BS 2011:Ea:1987 BS EN 60068-2-27:1993:Ea IEC 68-2-27:1987 (1993)	A
Free Fall Drop Max ht: 2 m Max drop area: 0.5 m x 0.5 m	IEC 60068-2-32:1975 + A1:1982 + A2:1990 Proc 1	A	
Impact (Spring Hammer)	IEC 60068-2-75:1997 Test Ehb	A	



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	<p><b>ENVIRONMENTAL TESTS</b> (non-explosive items) (cont'd)</p> <p><b>Dynamic</b> (cont'd)</p> <p>Bump - half sine (at ambient temperatures) Maximum force: 106 kN Maximum acceleration: 2207 ms<sup>-2</sup> (225g<sub>n</sub>) Maximum velocity: 3.8 ms<sup>-1</sup> Maximum displacement: 50.8 mm (p-p)</p>	<p>BS 2011:Eb:1987 BS EN 60068-2-29:1993 (Amd 7827) IEC 68-2-29:1987 (1993)</p>	A
	<p><u>EMC</u></p> <p>1.1 Conducted emissions, 9 kHz to 30 MHz</p> <p>Performed in 4 m x 4 m x 2.4 m unlined screened room</p> <p>Excluding discontinuous interference</p>	<p>EN 55011:1991 BS EN 55011:1991 CISPR 11:1990 (Amd 2:1996) EN 55011:1998 (Amd 1) BS EN 55011:1998 (Amd 1) CISPR 11:1997 (Amd 1:1999)</p> <p>EN 55014-1:1993 (Amd 1 &amp; 2) BS EN 55014-1:1997 BS EN 55014-1:2001 EN 55014-1:2000 CISPR 14-1:2000</p> <p>EN 55022:1994 (Amd 1 &amp; 2) BS EN 55022:1995 (Amd 1 &amp; 2) EN 55022:1998 (Amd 1) BS EN 55022:1998 (Amd 1) CISPR 22:1997 (Amd 1)</p> <p>AZ/NZS 3548:1995 (Amd 1 &amp; 2)</p>	A  A  A  A
	<p>1.2 Radiated emissions 150 kHz to 1000 MHz</p> <p>Performed in 9 m x 6 m x 6.5 m semi-anechoic chamber at 3 m distance</p>	<p>EN 55011:1991 BS EN 55011:1991 CISPR 11:1990 (Amd 2:1996) EN 55011:1998 (Amd 1) BS EN 55011:1998 (Amd 1) CISPR 11:1997 (Amd 1:1999)</p>	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	<p><u>EMC</u> (cont'd)</p> <p>1.2 Radiated emissions 150 kHz to 1000 MHz (cont'd)</p> <p>Tests for automotive components performed in the semi-anechoic chamber</p>	<p>EN 55022:1994 (Amd 1 &amp; 2) BS EN 55022:1995 (Amd 1 &amp; 2) EN 55022:1998 (Amd 1) BS EN 55022:1998 (Amd 1) CISPR 22:1997 (Amd 1)</p> <p>AZ/NZS 3548:1995 (Amd 1 &amp; 2)</p> <p>Directive 95/54/EC:1995 (Annex VII &amp; VIII)</p> <p>UN Regulation No.10, Add.9/ Rev 2:1997 (Annex 7 &amp; 8)</p> <p>Directive 97/24/EC:1997 Chapter 8</p>	<p>A</p> <p>A</p> <p>A</p> <p>A</p>
	<p>1.3 Radiated immunity (GTEM)</p> <p>10kHz to 1GHz up to 100V/m</p> <p>1GHz to 2GHz up to 30V/m performed in 10m x 4m x 3m GTEM cell</p> <p>Closed loop or substitution method</p>	<p>BS 6667:Part 3:1985 IEC 801-3:1984</p> <p>ENV 50140:1994</p> <p>EN 61000-4-3:1996 (AMD 1 &amp; 2) BS EN 61000-4-3:1997 (AMD 1 &amp; 2) IEC 1000-4-3:1995 (AMD 1 &amp; 2)</p> <p>ENV 50204:1995</p> <p>ISO 11452-3-2001</p> <p>Thatcham Performance test Specification Issue 2:1996</p>	<p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p>



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	<u>EMC</u> (cont'd)		
	1.4 Radiated immunity (3m Anechoic Chamber)	BS 6667:Part 3:1985 IEC 801-3:1984	A
	1 MHz to 2000 MHz up to 30 V/m	ENV 50140:1994	A
	1 GHz to 2 GHz up to 20 V/m	ENV 50204:1995	A
		EN 61000-4-3:1996 (Amd 1 & 2) BS EN 61000-4-3:1997 (Amd 1 & 2) IEC 1000-4-3:1995 (Amd 1 & 2)	A
	Automotive: 200 MHz to 1 GHz up to 75 V/m	ISO 11452-2:1995	A
	Performed in 9m x 6m x 6.5m semi-anechoic chamber	Directive 95/54/EC:1995 (Annex IX) UN Regulation No 10, Add.9/ Rev 2:1997 (Annex 9)	A
	Closed loop or substitution method	Directive 97/24/EC:1997 (Chapter 8)	A
	1.5 Conducted RF Immunity 30 kHz to 500 MHz	ENV 50141:1994	A
	To Injected current 60 mA	EN 61000-4-6:1996 (Amd 1 & 2) BS EN 61000-4-6:1996 (Amd 1 & 2) IEC 1000-4-6:1996 (Amd 1 & 2) ISO 11452-4:2001	A
	Closed loop or substitution method		
	Performed in screened enclosures	Directive 95/54/EC:1995 (Annex IX)	A
		UN Regulation No.10, Add.9/ Rev 2:1997 (Annex 9)	A
		Directive 97/42/EC:1997 (Chapter 8)	A



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	<u>EMC</u> (cont'd)		
	1.6 Electrostatic Discharge (ESD) Immunity	BS 6667:Part 2:1985 IEC 801-2:1984	A
	To ± 16.5 kV air and to ± 9 kV contact discharge	IEC 801-2:1991 EN 60801-2:1993 BS EN 60801-2:1993	A
		EN 61000-4-2:1995 (Amd 1 & 2) BS EN 61000-4-2:1995 (Amd 1 & 2) IEC 1000-4-2:1995 (Amd 1 & 2)	A
		ISO TR 10605:1994 (Component testing)	A
	1.7 Immunity to Fast Transient Bursts	IEC 801-4:1988	A
	0.25 kV to 4.0 kV positive and negative polarity	EN 61000-4-4:1995 (Amd 1) BS EN 61000-4-4:1995 (Amd 1) IEC 1000-4-4:1995 (Amd 1)	A
	0.25 kV to 4.0 kV, positive and negative polarity		
	AC Mains single phase to 16A		
	1.8 Immunity to High Energy Surges	IEC 801-5 (draft):1993 ENV 50142:1994	A
	To ± 8 kV open circuit voltage with 1.2/50 µs pulse	BS EN 61000-4-5:1995 (Amd 1 & 2) EN 61000-4-5:1995 (Amd 1) IEC 1000-4-5:1995 (Amd 1)	A
	To ± 4 kA short circuit current with 8/20 µs pulse		A
	AC Mains single and three phase to 25A		A



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	<p><u>EMC</u> (cont'd)</p> <p>1.9 Mains Supply Voltage Variations and Dips</p> <p>Voltages to 600 V, current to 16A</p>	<p>IEC 1000-4-11:1994 IEC 61000-4-11:1994</p>	<p>A</p> <p>A</p>
	<p>1.10 Generic Standards</p>	<p>EN 50081-1:1992 BS EN 50081-1:1992 EN 61000-6-3:2001 BS EN 61000-6-3:2001</p> <p>EN 50081-2:1993 BS EN 50081-2:1994 EN 61000-6-4:2001 BS EN 61000-6-4:2001</p> <p>EN 50082-1:1992 (Informative) BS EN 50082-1:1992 (Informative) EN 50082-1:1997 BS EN 50082-1:1998 EN 61000-6-1:2001 BS EN 61000-6-1:2001</p> <p>EN 50082-2:1995 BS EN 50082-2:1995 EN 61000-6-2:2001 BS EN 61000-6-2:2001</p>	<p>A</p> <p>A</p> <p>A</p> <p>A</p>
	<p>1.11 Product Specific Standards</p>	<p>EN 50130-4:1995 (Amd 1 &amp; 2) BS EN 50130-4:1996 (Amd 1)</p> <p>EN 50270:1999 BS EN 50270:1999</p> <p>EN 55011:1991 BS EN 55011:1991 CISPR 11:1990 (Amd 2:1996) EN 55011:1998 (Amd 1) BS EN 55011:1998 (Amd 1) CISPR 11:1997 (Amd 1:1999)</p>	<p>A</p> <p>A</p> <p>A</p>



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	<u>EMC</u> (cont'd)		
	1.11 Product Specific Standards (cont'd)	EN 55014-1:1993 (Amd 1 & 2) BS EN 55014-1:1997 BS EN 55014-1:2001 EN 55014-1:2000 CISPR 14-1:2000	A
		EN 55022:1994 (Amd 1 & 2) BS EN 55022:1995 (Amd 1 & 2) EN 55022:1998 (Amd 1) BS EN 55022:1998 (Amd 1) CISPR 22:1997 (Amd 1)	A
		AZ/NZS 3548:1995 (Amd 1 & 2)	A
		EN 55014-2:1997 BS EN 55014-2:1997 CISPR 14-2:1997	A
		EN 55024:1998 BS EN 55024:1998 CISPR 24:1997	A
		EN 60601-1-2:1993 (Amd 1) BS EN 60601-1-2:1993 (Amd 1)	A
		EN 61326:1997 (Amd 1 & 2) BS EN 61326:1998 (Amd 1 & 2)	A
		EN 50121-4:2000 BS EN 50121-4:2000	A
		DNV Certification Notes No 2.4:1995	A
		Lloyds Register Test Specification No 1:2002	A
		Germanischer Lloyds Regulations for Performance of Type Tests Part 1:1997	A
		Germanischer Lloyds Regulations for Performance of Type Tests Part 1:2003	A



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	<u>EMC</u> (cont'd)  1.11 Product Specific Standards (cont'd)	Thattham Performance Test Specification Issue 2:1996  Thattham Performance Test Specification for Motorcycles Issue 1:1999	A  A
FIRE FIGHTING SYSTEMS (BLANKETS)	<u>Construction and Performance Tests</u>	BS EN 1869:1997	A
FIRE FIGHTING SYSTEMS (REEL HOSES)	<u>Construction and Performance Tests</u>	BS 3169:1986	A
FIRE FIGHTING SYSTEMS (GAS COMPONENTS)  Performance Tests for Container Valves	Valve body strength Leakage Operation at minimum and maximum pressure Stress corrosion Salt mist corrosion	Documented In-house Method LPS 1024:Issue 2:1987(1992) Clause 5.2 Clause 5.4 Clause 5.5  Clause 5.8.1 Clause 5.8.2	A
Requirements and test methods for non-electrical automatic control and delay devices	General design Connection threads Signal processing and indication System delay Function at ambient temperature Internal pressure Strength Operational reliability Corrosion Stress corrosion Vibration	BS EN 12094-2:2003 Clause 4.1 Clause 4.2 Clause 4.3  Clause 4.4 Clause 4.5  Clause 4.6 Clause 4.7 Clause 4.8 Clause 4.9 Clause 4.10 Clause 4.11	A



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<p><b>FIRE FIGHTING SYSTEMS (GAS COMPONENTS) (cont'd)</b></p> <p>Requirements and test methods for non-electrical automatic control and delay Devices (cont'd)</p>	<p>Pneumatic energy supply using pilot containers Operating forces Functional reliability Safety Classification Test Facility Documentation Marking and data</p>	<p>BS EN 12094-2:2003 (cont'd) Clause 4.12  Clause 4.13 Clause 4.14 Clause 4.15 Clause 4.16 Clause 4.17 Clause 6</p>	
<p>Requirements and test methods for manual triggering and stop devices</p>	<p>Electrical triggering and stop devices Non-electrical triggering devices Documentation Marking</p>	<p>BS EN 12094-3:2003 Clause 4.1  Clause 4.2  Clause 4.3 Clause 6</p>	A
<p>Requirements and test methods for container valve assemblies and their actuators</p>	<p>Compliance General design Connection threads Function and ambient temperature Resistance to internal pressure Strength Leakage Operational Reliability Flow characteristics Corrosion Stress corrosion Vibration resistance Operating force Functional reliability Manual actuators Documentation Marking</p>	<p>BS EN 12094-4:2004 Clause 4.1 Clause 4.2 Clause 4.3 Clause 4.4  Clause 4.5  Clause 4.6 Clause 4.7 Clause 4.8 Clause 4.9 Clause 4.10 Clause 4.11 Clause 4.12 Clause 4.14 Clause 4.15 Clause 4.16 Clause 4.17 Clause 6</p>	A



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<p><b>FIRE FIGHTING SYSTEMS (GAS COMPONENTS) (cont'd)</b></p> <p>Requirements and Testing High and Low Pressure Selector Valves and their Actuators for all gases</p>	<p>General design Connection threads &amp; flanges Function and ambient temperature Resistance to internal pressure &amp; leakage Resistance to bursting Operational reliability Flow characteristics Resistance to corrosion Resistance to stress corrosion Vibration resistance Operating force Documentation Marking</p>	<p>BS EN 12094-5:2006 Clause 4.1 Clause 4.2 Clause 4.3  Clause 4.4  Clause 4.5 Clause 4.6 Clause 4.7 Clause 4.8 Clause 4.9 Clause 4.10 Clause 4.11 Clause 4.12 Clause 6</p>	A
<p>Requirements and test methods for non-electrical disable devices</p>	<p>General design Disabling valves Disable devices other than valves Operating forces Documentation Marking</p>	<p>BS EN 12094-6:2006 Clause 4.1 Clause 4.2 Clause 4.3  Clause 4.4 Clause 4.5 Clause 6</p>	A
<p>Requirements and test methods for nozzles for CO2 systems</p>	<p>General design Connection threads Nozzle opening cross section Nozzle protection covers Distribution Resistance to pressure and heat Resistance to corrosion Resistance to stress corrosion Resistance to vibration Documentation Marking</p>	<p>BS EN 12094-7:2001 Clause 4.1 Clause 4.2 Clause 4.3 Clause 4.4 Clause 4.6 Clause 4.7  Clause 4.9 Clause 4.10 Clause 4.11 Clause 4.12 Clause 6</p>	A A



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<p>FIRE FIGHTING SYSTEMS (GAS COMPONENTS) (cont'd)</p> <p>Requirements and test methods for Connectors for CO2 Systems</p>	<p>General design Connection threads Resistance to leakage Resistance to bursting Resistance to cold Marking Documentation</p>	<p>BS EN 12094-8:2006 Clause 4.1 Clause 4.2 Clause 4.3 Clause 4.4 Clause 4.7 Clause 4.9 Clause 4.10</p>	A
<p>Requirements and test methods for special fire detectors</p>	<p>General Normal operating temperature Operating temperature Thermal response Pressure Force Function Heat Exposure Strength of release elements Strength of mounting support Thermal shock Resistance to low temperature Corrosion Stress corrosion Vibration resistance Documentation Marking</p>	<p>BS EN 12094-9:2003 Clause 4.1 Clause 4.2 Clause 4.3 Clause 4.4 Clause 4.5 Clause 4.6 Clause 4.7 Clause 4.8 Clause 4.9 Clause 4.10 Clause 4.11 Clause 4.12 Clause 4.13 Clause 4.14 Clause 4.15 Clause 4.16 Clause 6</p>	A
<p>Requirements and test methods for Pressure Gauges and Pressure Switches</p>	<p>Pressure gauges Pressure switches Documentation Marking</p>	<p>BS EN 12094-10:2003 Clause 4.1 Clause 4.2 Clause 4.3 Clause 6</p>	A



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<p>FIRE FIGHTING SYSTEMS (GAS COMPONENTS) (cont'd)</p> <p>Requirements and test methods for mechanical weighing devices</p>	<p>Compliance Design Function at normal temperature Function at high and low temperature Overload Corrosion Documentation Marking</p>	<p>BS EN 12094-11:2003 Clause 3.1 Clause 3.2 Clause 3.3  Clause 3.4  Clause 3.5 Clause 3.6 Clause 3.7 Clause 5</p>	A
<p>Requirements and test methods for pneumatic alarm devices</p>	<p>Compliance Design Function at normal temperature Function at high and low temperature Functional reliability Operational reliability Function in cold and moist atmosphere Corrosion Stress corrosion Vibration Impact Documentation Marking</p>	<p>BS EN 12094-12:2003 Clause 4.1 Clause 4.2 Clause 4.3  Clause 4.4  Clause 4.5 Clause 4.6 Clause 4.7  Clause 4.8 Clause 4.9 Clause 4.10 Clause 4.11 Clause 4.12 Clause 6</p>	A



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<p>FIRE FIGHTING SYSTEMS (GAS COMPONENTS) (cont'd)</p> <p>Requirements and Test Methods for Check Valves and Non-Return Valves</p>	<p>General design Connection threads Internal pressure Strength Flow way Leakage Impact Function and ambient temperature Corrosion Stress corrosion Vibration resistance Documentation Marking</p>	<p>BS EN 12094-13:2001 Clause 4.1 Clause 4.2 Clause 4.3 Clause 4.4 Clause 4.5 Clause 4.6 Clause 4.7 Clause 4.8  Clause 4.9 Clause 4.10 Clause 4.11 Clause 4.12 Clause 6</p>	A & B
Gaseous Fire Extinguishing Systems	Physical properties and system design	<p>BS ISO 14520-1:2006  BS ISO 14520-1:2006 (General requirements)  BS ISO 14520-2:2006 (CF 31 extinguishment)  BS ISO 14520-3:2000 (FC-2-1-8 extinguishment)  BS ISO 14520-4:2000 (FC-3-1-10 extinguishment)  BS ISO 14520-5:2006 (FK-5-1-12 extinguishment)  BS ISO 14520-6:2006 (HCFC Blend A extinguishment)  BS ISO 14520-7:2000 (HCFC Blend 124 extinguishment)</p>	A





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FIRE FIGHTING SYSTEMS (SPRINKLERS)	<u>Construction and Performance Tests</u>	BS EN 12259-1:1999 Clause 4.1 Clause 4.2 Clauses 4.3 & 4.4 Clause 4.5 Clause 4.6 Clause 4.7 Clause 4.8 Clause 4.9 Clause 4.10 Clause 4.11 Clause 4.12 Clause 4.13 Clause 4.14 Clause 4.15 Clause 4.16 Clause 4.17 Clause 4.18 Clause 4.19	A
	Automatic sprinklers	Documented In-house Method LPS 1039:Issue 5.1:2005 excluding Clause 7.20	A
FIRE FIGHTING SYSTEMS (PORTABLE FIRE EXTINGUISHER)	<u>Performance Tests</u>		
	Fire extinguishing performance rating	BS 7937:2000	A
	Portable fire extinguisher tests and fire extinguishing performance rating	BS EN 3-6:2006, Clause 3 BS EN 3-8:2006 BS EN 3-9:2006 BS EN 3-7:2004 (excluding Clause 9)	A
	Portable fire extinguisher tests and fire extinguishing performance rating	BS EN 3-1:1996, -1:1996 BS EN 3-7:2004 (Clauses 7 & 15)	C
Portable fire extinguisher tests and fire extinguishing performance rating	BS EN 1866-1:2007	C	



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FIRE FIGHTING SYSTEMS (PORTABLE FIRE EXTINGUISHER) (cont'd)	<u>Performance Tests</u> (cont'd) Disposable fire extinguishers (aerosol)	BS 6165:2002	
FIRE FIGHTING SYSTEMS (VALVES, ACTUATORS, COUPLINGS, PRESSURE VESSELS, ETC)	Hydrostatic pressure to 700 bar	LPS 1024 LPS 1040 LPS 1041 LPS 1185 LPS 1186 BS 5155:1984 BS 5160:1989 BS 6755:Part 1:1986	A
FIRE PERFORMANCE EXTERNAL ROOF TESTS	Fire exposure roof test  Classification document of fire exposure roof tests	Documented In-house Method SB8/52/T:2004, based on BS 476:Part 3:1958 FTSG Resolution 61 BS 476:Part 3:2004 CR 1187:2002 (inc Amendment 1:2004 ENV 1187:2002 DD ENV 1187:2002 (inc pr A1:December 2004  BS EN 13501-5: 2005	A  A
FLOORS	<u>Acoustical Tests</u>  Laboratory measurement of airborne sound insulation  Laboratory measurement of impact sound insulation  Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a heavyweight standard floor	BS EN 140-3:1995 BS 2750:Part 3:1995  BS EN ISO 140-6:1998 EN ISO 140-6:1998  BS EN ISO 140-8:1998 EN ISO 140-8:1997	A  A  A



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FLOORS (cont'd)	<u>Acoustical Tests</u> (cont'd)		
	Field measurement of impact sound insulation	BS EN ISO 140-7:1998 ISO 140-7:1998	B
	Field measurement of airborne sound insulation	BS EN ISO 140-4:1998 ISO 140-4:1998	B
FLOORS	Slip resistance value	The assessment of floor slip resistance. The UK slip resistance group guidelines Issue 3:2005	
FLOORS and FLAT ROOFS	Fire resistance	BS 476:Part 8:1972 Section 3 BS 476:Part 21:1987 Section 7 FTSG Resolutions 47, 67 & 70 BS EN 1365-2:2000 ISO 834:1975	A
FLOORS with RAISED ACCESS and HOLLOW CORES	Fire resistance	BS EN 1366-6: 2004	A
FURNITURE	<u>Fire Tests</u>		
	Calorimeter measurements	Documented In-House Method No SP8/12/T:1999 and SP8/13T:1999	A
GENERAL MATERIALS	Toxicity	NES 713, Issue 3:March 1985	A
GENERAL MATERIALS FOR CONSTRUCTION OF RAILWAY PASSENGER STOCK AND BUILDING CONSTRUCTION	Smoke emission and Toxicity	NFX 70-100-1:2006 NFX 70-100-2:2006 BS 6853:1999:Annex B (All parts)* BS 6853:1999:Annex D (All parts)* *including IC procedure for Halides	A



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GLAZING	Fire resistance	BS 476:Part 8:1972 Section 8 BS 476:Part 22:1987 Section 10 FTSG Resolutions 70 & 79 BS EN 1364-1:1999 BS EN 1364-1:2008 BS EN 1365-2:2000 ISO 3009/FDIS 3009:2003	A
INDUSTRIAL, COMMERCIAL AND GARAGE DOORS AND GATES	Force for manual operation	BS EN 13241-1:2003, Clause 4.2.2 BS EN 14253:2000 BS EN 12604:2000 BS EN 12605:2000	A
	Mechanical resistance	BS EN 13241-1:2003, Clause 4.2.3 BS EN 12604:2000 BS EN 12605:2000	A
	Mechanical durability	BS EN 13241-1:2003, Clause 4.2.4 BS EN 12604:2000 BS EN 12605:2000	A
	Safe opening of vertically moving doors - individual test	BS EN 13241-1:2003, Clause 4.2.8 BS EN 12604:2000 BS EN 12605:2000	A
	Operating forces of power operated doors	BS EN 13241-1:2003, Clause 4.3.3 BS EN 12453:2000 BS EN 12445:2000	A
	Water tightness	BS EN 13241-1:2003, Clause 4.4.2 BS EN 12489:2000 BS EN 12425:2000	A
	Resistance to wind load - complete doors - individual or collective elements	BS EN 13241-1:2003, Clause 4.4.3 BS EN 12424:2000 BS EN 12604:2000 BS EN 12444:2000	A
	Noise	BS EN 13241-1:2003, Clause 4.4.4 BS EN ISO 140-3:1995 BS EN ISO 717-1:1997	A
Air permeability	BS EN 13241-1:2003, Clause 4.4.6 BS EN 12427:2000 BS EN 12426:2000	A	



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**BRE GLOBAL LIMITED**  
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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
INDUSTRIAL, COMMERCIAL AND GARAGE DOORS AND GATES (cont'd)	Durability of the performance characteristics	BS EN 13241-1:2003, Clause 4.4.7 BS EN 12605:2000	A
	Safe opening of vertically moving doors - individual test	BS EN 13241-1:2003, Clause 4.2.8 BS EN 12604:2000 BS EN 12605:2000	B
	Operating forces of power operated doors	BS EN 13241-1:2003, Clause 4.3.3 BS EN 12453:2000 BS EN 12445:2000	B
INTERIOR MATERIALS AIRCRAFT/VEHICLE	Flame resistance	CAA-8:Issue 2:1974 CS-25 Appendix F Part 1, Section 6, subsection 4	A
	Flammability	FMVS 302:1975 BS Au 169:1992 ISO 3795:1989 CS-25 Appendix F Part 1, Section 6, subsection 5	A
MARINE and OFFSHORE STRUCTURES	Fire resistance	Hydrocarbon DoE FRS 14-84:1990 IMO Resolution A754(18)1993 FTP Code [RES MSC 61(67)]	A
	FTP Code		
	Non-combustibility	IMO A472(XII):1984/93 IMO A799(19):1995	A
	Smoke and Toxicity	ISO 5659:Part 2:1994/1998/2006 IMO MSC 41 (64)	A
	Surface spread of flame	ISO 5658-2:1996 IMO ResA653(16)  SOLAS/IMO 1986	A  A
MODULAR SITE HUTS	Reaction to fire / fire tests	LPS 1195-1 issue 4:2005	C



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NATURAL STONE	<u>Geological Tests</u>		
	Petrographic description	BS EN 12407:2007	A
	<u>Mechanical Tests</u>		
	Flexural strength (loads from 0.04 to 100 kN)	ASTM C880-09	A
	Flexural strength under constant movement	BS EN 13161:2008	A
	Modulus of rupture (loads from 0.04 to 100 kN)	ASTM C99-09	A
	Flexural strength under concentrated load (loads from 0.04 to 100 kN)	BS EN 12372:2006	A
	Compressive strength (loads from 100 to 2000 kN)	BS EN 1926:2006	A
	Compressive strength (loads from 100 to 2000 kN)	ASTM C170-09	A
	<u>Physical Tests</u>		
	Bulk specific gravity	ASTM C97-02	A
	Water absorption	ASTM C97-02	A
	Water absorption	BR141:1989	A
	Water absorption at atmospheric pressure	BS EN 13755:2008	A
	Saturation coefficient	BR141:1989	A
	Porosity	BR141:1989	A
	Open porosity and apparent density	BS EN 1936:2006	A
Salt crystallisation	Documented In-House Method SP8/03/J:December 1998	A	



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NATURAL STONE (cont'd)	<u>Physical Tests</u> (cont'd)		
	Sulphuric acid immersion	BR141:1989	A
	Unpolished slip resistance	BS EN 1341:2001, ANNEX D	A
	Slip resistance by means of the pendulum tester	BS EN 14231:2003	A & B
	Slip resistance value	The assessment of floor slip resistance. The UK slip resistance group guidelines, Issue 3:2005	A SSue 72
	Resistance to salt crystallisation	BS EN 12370:1999	A
PLASTICS, RUBBERS and RELATED MATERIALS	<u>Mechanical Tests</u>		
	Frost resistance	BS EN 12371:2001	A
	Rate of burn	BS 2782:Part 1:1992, Method 140A Documented In-house Method based on BS 2782:Part 5:1970, Method 508A	A
	Flammability	BS 2782:Part 1:Method 140D:1997 BS 2782:Part 1:Method 140E: 1982(1988)	A
	Horizontal burn characteristics	BS 4735:1974(1984) ASTM/D 635-96	A
Vertical burn characteristics	ASTM/D 3014-94	A	
Specific optical density of smoke	BS 6401:1983	A	
PROTECTIVE COVERING MATERIALS	<u>Large Fire Tests</u>		
	Smoke/toxicity	LPS 1207:Issue 2:2003: Documented in-house method based on prEN 2824/5/6	A



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RAILWAY ROLLING STOCK AND INFRASTRUCTURE	Fire tests	BS 6853:1999 (inc Amd 1) CEN TS 45545-2:2006	A
ROOFING SLATES	<u>Chemical Tests</u> Sulphuric acid immersion	BS 680:Part 2:1971	A
	<u>Physical Tests</u> Water absorption	BS 680:Part 2:1971	A
	Wetting and drying	BS 680:Part 2:1971	A
SANDWICH PANELS	Reaction to fire / fire tests	LPS 1181-1 issue 1.1:2005 LPS 1181-2 issue 2.0:2005	A, B & C
SECURITY EQUIPMENT	Alarm systems: Intrusion & hold-up systems: Control & indicating equipment	DD CLC/TS 50131-3:2003 BS EN 50131-3:2009 excluding Water Ingress (IPX2, IPX4 & IPX7)	A
	Alarms systems: Intrusion systems: Power supplies,	BS EN 50131-6:2008 excluding Water Ingress (IPX2, IPX4 & IPX7)	A
SERVICE INSTALLATIONS Fire dampers, penetration seals, linear gap seals, closures and conveyors	Fire resistance	BS EN 1366-2:1999 BS EN 1366-3:2004 BS EN 1366-3:2009 BS EN 1366-4:2006 + A1:2010 ISO 10294-1:1996 BS ISO 10294-5:2005 BS EN 1366-7:2004 AS4072-1:2005 inc Amd 1:2006 ASTM E A814:2008b	A
	Classification of fire resistance of building service installations	BS EN 13501-3:2005 + A1:2009	A
SCAFFOLD CLADDING MATERIALS	Fire tests	LPS 1215:Issue 3:2003	A



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STORAGE UNITS	Fire resistance	BS EN 15659:2009	A
SUSPENDED CEILINGS PROTECTING STEEL BEAMS	Fire resistance	BS 476:Part 8:1972, Section 6 BS 476:Part 23:1987, Section 5 (including Amd 9458:1998) FTSG Resolutions 68 &70 ISO 834:1975	A
TEXTILES AND FILMS	Flammability in vertical orientation	IMO Resolution A.563(14):1998	A
UPHOLSTERED SEATING and BEDDING - INCLUDING COMPOSITE FILLINGS FOR FURNITURE AND PILLOWS AND CUSHIONS WITH PRIMARY COVERS AND INCLUDING FOAM CUSHIONS	Ignitability	BS EN 597-1:1995 BS EN 597-2:1995 BS 5852:Part 1:1979 BS 5852:Part 2:1982 BS 5852:1990 BS EN 1021-1:1994 BS EN 1021-2:1994 IMO A688(17)	A
	Ignitability Tests	Schedule 2:Part II	A
	Ignitability Tests	Schedule 2:Part II Furniture and Furnishings (Fire) (Safety) Regs: 1988 SI. 1324	A
	Ignitability Tests Cigarette Test	Schedule 2:Part IV Schedule 4	A
POLYURETHANE FOAM SLABS and CUSHIONS	Ignitability Tests	Furniture and Furnishings (Fire) (Safety) Regs: 1988:SI.1324 Schedule 1:Part I	A
POLYURETHANE FOAM in CRUMB FORM	Ignitability Tests	Schedule 1:Part II	A
LATEX RUBBER FOAM	Ignitability Tests	Schedule 1:Part III	A



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NON-FOAM FILLING MATERIALS, SINGLY	Ignitability Tests	Schedule 2:Part I	A
VENTILATION SERVICE DUCTS	Fire resistance	BS 476:Part 24:1987 FTSG Resolution 70 ISO 6944:1985 BS EN 1366-1:1999 BS EN 1366-5:2010	A
	Classification of fire resistance of building service installations	BS EN 13501-3: 2005 + A1:2009	A
VOLATILE ORGANIC COMPOUNDS - in air	<u>Chemical Analysis</u>		
	Determination of volatile organic compounds by thermal desorption, gas chromatography, mass spectrometry and FID	Documented in-house method SP8/18/W based on ISO 16000-6:2004	A
	Determination of Formaldehyde	Documented In-house Method SP8/20/W using liquid desorption and HPLC. Method based on ISO 16000-3:2001 & MDHS 78	A
	<u>Sampling</u>		
	Pumped sampling for volatile organic compounds in air	Documented in-house method SP8/19/W based on ISO 16000-6:2004	B
	Pumped sampling for Formaldehyde	Documented in house method SP/8/21/W based on ISO 16000-3:2001	B
WALLS, PARTITIONS (smoke barriers)	Fire resistance	BS 476:Part 8:1972 Section 2 BS 476:Part 21:1987 Section 8 FTSG Resolutions 47, 60, 70 & 79 BS 476:Part 22:1987 Section 5 BS EN 1364-1:2008 BS EN 1365-1:1999 ISO 834:1975 prEN 12101-1: 2002 (section 5.2 only)	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WALLS & PARTITIONS	<u>Acoustical Tests</u>  Measurement of airborne sound insulation	BS EN ISO 140-3:1995 BS 2750:Part 3:1995	A
	Field measurement of airborne sound insulation	BS EN ISO 140-4:1998 ISO 140-4:1998	B
WINDOWS - casement, top swing, vertical sliding and tilt/turn for domestic applications	<u>Physical Tests</u>  Glazing removal - manual Glazing removal - mechanical Manipulation Mechanical loading Manual check	BS 7950:1997 Annex A	A
WINDOWS	Air permeability	BS 5368:Part1:1976 EN 42	A
	Watertightness under static pressure	BS 5368:Part 2:1980 EN 86	A
	Wind resistance	BS 5368:Part 3:1978 EN 77	A
	Weather tightness	BS 6375-1:2009	A
WOOD & WOOD PRESERVATIVES	<u>Biological Tests</u>  Determination of protective effects using:  Hylotrupes bajulus	In-house documented procedure SP6/07/K (based on BS EN 47:2005) & SP6/06/K (based on EN 46-1:2009)	A
	Reticulitermes santonensis	In-house documented procedure SP6/09/K (based on BS EN 118:2005) & SP6/05/K (based on BS EN 117:2005)	A
	Basidiomycete wood destroying	In-house documented procedure SP6/04/K (based on BS EN 113:1997)	A



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WOOD & WOOD PRESERVATIVES (cont'd)	<u>Biological Tests</u> (cont'd)		
	Effectiveness against soft rotting micro-fungi and other soil inhabiting micro-organisms	In house documented procedure SP6/08/K (based on DD ENV 807:2001)	A
	Determination of protective effects using: (cont'd)	Pre-conditioning for the above tests:- Where Evaporative ageing is required: In house documented procedure SP6/02/K (based on EN 73) Where Leaching is required: In house procedure SP6/03/K (based on EN 84)	A
END			