


Schedule of Accreditation

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United Kingdom Accreditation Service

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

 <p>0578</p> <p>Accredited to ISO/IEC 17025:2005</p>	<p>BRE GLOBAL LIMITED Incorporating LPC Testing, BRE Testing</p> <p>Issue No: 108 Issue date: 25 January 2019</p>	
	<p>Bucknalls Lane Garston Watford WD25 9XX</p>	<p>Contact: Mr M Pratt Tel: +44 (0)1923665114 Fax: +44 (0)1923 664994 E-Mail: prattm@bre.co.uk Website: www.bre.co.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Bucknalls Lane Garston Watford WD25 9XX</p> <p>Local contact Mr M Pratt</p>	<p>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</p>	A
<p>Address BRE NE Dawsons Wharf Riverside Park Road Middlesbrough TS2 1UT</p> <p>Contact Mr M Pratt</p>	<p>CONSTRUCTION Reaction to fire Extinguishers</p>	C

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>All locations suitable for the activities listed</p> <p>Contact Mr M Pratt</p>	<p>ACOUSTICS Environmental Sampling Building Air Leakage ALARM TRANSMISSION EQUIPMENT Intrusion Detector Walk Testing</p>	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
BUILDINGS	Building air leakage	BS EN 13829:2001 BS EN ISO 9972:2015 ATTMA TS1:2007	B
	Building Air Leakage Test Dwellings	ATTMA TSL1:2010 ATTMA TSL1:2016	B
	Building Air Leakage Test Non-dwellings	ATTMA TSL2:2010	B
ACOUSTICAL TESTS BUILDING ELEMENTS Building elements and facades not specifically described in the Annexes of BS EN ISO 10140-1 : 2010 Walls BS EN ISO 10140-1:2010 (Annex A) Doors BS EN ISO 10140-1:2010 (Annex B) Windows BS EN ISO 10140-1:2010 (Annex C) Small technical elements such as ventilators, grilles and cable raceways BS EN ISO 10140-1:2010 (Annex E)	Laboratory measurement of airborne sound insulation of building elements	BS EN ISO 10140-2:2010 BS EN ISO 717-1:2013	A
BUILDING ELEMENTS Floors BS EN ISO 10140-1:2010 (Annex F)	Laboratory measurement of airborne and impact sound insulation of building elements	BS EN ISO 10140-2:2010 BS EN ISO 717-1:2013 BS EN ISO 10140-3:2010 BS EN ISO 717-2:2013	A
WALLS, PARTITIONS, FLOORS, WINDOWS AND SMALL BUILDING ELEMENTS	Measurement of airborne sound insulation	BS EN ISO140-3:1995 (withdrawn) BS 2750:Part 3:1995 (withdrawn) BS EN 20140-10:1992 (withdrawn) ISO 140-10:1991 (withdrawn)	A
	Field measurement of airborne sound insulation	BS EN ISO 140-4:1998 ISO 140-4:1998	B



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FLOORS	Laboratory measurement of airborne sound insulation	BS EN 140-3:1995 (withdrawn) BS 2750:Part 3:1995 (withdrawn)	A
	Laboratory measurement of impact sound insulation	BS EN ISO 140-6:1998 (withdrawn) EN ISO 140-6:1998 (withdrawn)	A
	Field measurement of airborne sound insulation	BS EN ISO 140-4:1998 (withdrawn) ISO 140-4:1998 (withdrawn)	B
	Field measurement of impact sound insulation	BS EN ISO 140-7:1998 ISO 140-7:1998	B
FACADES	Field measurement of airborne sound insulation	BS EN ISO 140-5:1998	B
APPLIED PROTECTION TO STRUCTURAL MEMBERS	Fire resistance	DD ENV 13381-4:2002 (Withdrawn) (Test Method only) BS EN 13381-1:2014 BS EN 13381-2:2014 BS EN 13381-3:2015 Pr EN 13381-4:2009 (Withdrawn) BS EN 13381-4: 2013 BS EN 13381-5:2014 BS EN 13381-6:2012 Pr ENV 13381-7:2009 DD ENV 13381-7:2002 BS EN 13381-8:2010 (Withdrawn) BS EN 13381-8:2013 BS EN 13381-9: 2015	A
BEAMS	Fire resistance	BS 476:Part 8:1972 Section 5 (Withdrawn) BS 476:Part 21:1987 Section 5 FTSG Resolutions 47 & 70 BS EN 1365-3:2000 ISO 834:1975 (Withdrawn)	A



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BUILDING ELEMENTS - GENERAL	Fire resistance	BS 476:Part 8:1972 (Withdrawn) BS 476:Part 20:1987 BS EN 1363-1:2012 BS EN 1363-2:1999 AS 1530:Part 4:1997 AS 1530:Part 4:2005 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 263:2011 (Fourteenth edition) including amendment Oct. 13, 2014	A
	Classification using data from fire resistance tests excluding ventilation services	BS EN 13501-2:2007 + A1:2009	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+Cor Aug:2010 BS EN ISO 11925-2:2002 BS EN ISO 11925-2:2010 BS EN 13823:2002 BS EN 13823:2010+A1:2014 BRE Fire Note 9:1999 BS 8414-1:2002 BS 8414-1:2015+A1:2017 BS 8414-2:2005 BS 8414-2:2015+A1:2017	A
Non-combustibility	BS 476:Part 4:1970(1984) BS EN ISO 1182:1990 BS EN ISO 1182:2010+Cor Aug:2010 SNZ NZS/AS 1530:Part 1:1994	A	



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BUILDING MATERIALS/ PRODUCTS (cont'd)	<u>Fire Tests</u> (cont'd)		
	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 BS 476:Part 7:1997+Cor1:2014 FTSG Resolution 81	A
	Specific optical density of smoke from solids	BS 6401:1983 ASTM E662:17a	A
	Gross calorific value (Bomb calorimeter test)	BS EN ISO 1716:2002 BS EN ISO 1716:2010	A
	Single burning item	BS EN 13823:2002 BS EN 13823:2010+A1:2014	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 (Withdrawn) UBC 26-3(1997)	A	
FIRE PERFORMANCE EXTERNAL ROOF TESTS	Fire exposure roof test	Documented In-house Method SB8/52/T:2004, based on BS 476-3:2004 incorporating amendments 1 & 2 FTSG Resolution 61BS 476:Part 3:2004 CR 1187:2002 (inc Amendment 1:2004 ENV 1187:2002 DD ENV 1187:2002 (inc pr A1:December 2004) CEN/TS 1187:2012 Test 4	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)	<u>Fire Tests</u> (cont'd)		
	Classification document of fire exposure roof tests	EN 13501-5: 2005+A1:2009 incorporating corrigendum November 2006 EN 13501-5:2016	A
	Cone calorimeter	BS 476-15:1993 ISO 5660-1:2015 ASTM E 1354:1997 BS EN 45545-2:2013+A1:2015	A
	Naval Engineering Standards: Smoke Index (Category 2)	Def Stan 02-711 issue 3 NES 711	A
	Toxicity Index (Category 2)	NES 713 Def Stan 02-713 issue 3	
	Oxygen Index (Category 2)	NES 714 ISO 4589-2:2017	
	Temperature Index (Category 2)	ISO 4589-2:1999 (Inc Amd 1 2005) BS EN ISO 4589-2:2017 NES 715 ISO 4589-3:2017 ISO 4589-3:1996 BS EN ISO 4589-3:2017	
	<u>European Harmonised Fire Test</u>		
	Conditioning	BS EN ISO 13238:2001 BS EN ISO 13238:2010 BS EN ISO 1716:2010	A
	Gross Calorific value (Bomb calorimeter test) Non-combustibility	BS EN ISO 1182:2010+Cor Aug 2010	
Single flame test	BS EN ISO 11925-2:2002 BS EN ISO 11925-2:2010		
Single burning item test Room corner test Reaction to fire classification	BS EN 13823:2010+A1:2014 BS EN 14390:2007 BS EN 13501-1:2002 BS EN 13501-1:2007+A1:2009		



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BUILDING MATERIALS/ PRODUCTS (cont'd)	<u>Fire Tests</u> (cont'd) Reaction to fire	BS 8414-1:2002 BS 8414-1:2015+A1:2017 BS 8414-2:2005 BS 8414-2:2015+A1:2017 FM Approval Standard 4880 BRE BR 135 2 nd edition 2003 Annex A BRE BR 135 3 rd edition 2013 Annex A and B	A
SANDWICH PANELS	Reaction to fire / fire tests	LPS 1181-1 issue 1.1:2005 LPS 1181-1 issue 1.2:2014 LPS 1181-2 issue 2.0:2005 LPS 1181-2 issue 2.1:2014	A, B & C
BUTTERFLY STOP VALVES	<u>Performance Tests</u>	Documented In-house Method LPS 1185:Issue 3.2:2014	A
CEILING MEMBRANES	Fire resistance - horizontal	BS 476:Part 8:1972 Section 9 (Withdrawn) 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 1365-4:1999 ISO 834:1975 (Withdrawn)	A
DIVISIONAL ELEMENTS	Fire test procedures for divisional elements typically used in oil, gas and petrochemical industries	BS ISO 20902-1:2018	A



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DOOR and SHUTTER ASSEMBLIES	Fire resistance	BS 476:Part 8:1972 Section 7 (Withdrawn) BS 476:Part 22:1987 Section 6, 7 & 8 FTSG Resolutions 51, 70, 71, 78 & 79 BS EN 1634-1:2014 ISO 834:1975 (Withdrawn) ISO 3008:2007 ISO/DIS 3008:2003 BS EN 81-58:2003	A
FLOORS and FLAT ROOFS	Fire resistance	BS 476:Part 8:1972 Section 3 (Withdrawn) BS 476:Part 21:1987 Section 7 FTSG Resolutions 47, 67 & 70 BS EN 1365-2:2014 ISO 834:1975 (Withdrawn)	A
WALLS, PARTITIONS (smoke barriers)	Fire resistance	BS 476:Part 8:1972 Section 2 (Withdrawn) 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 EN 1364-1:2015 BS EN 1365-1:2012 ISO 834:1975 (Withdrawn) EN 12101-1: 2005 + A1:2006 (section 5.2 and appendix D only)	A
GENERAL MATERIALS	Toxicity	NES 713, Issue 3:March 1985	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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 (Withdrawn)	A
GLAZING	Fire resistance	BS 476:Part 8:1972 Section 8 (Withdrawn) BS 476:Part 22:1987 Section 10 FTSG Resolutions 70 & 79 BS EN 1364-1:1999 BS EN 1364-1:2008 EN 1364-1:2015 ISO 3009:2003 FDIS 3009:2003	A
MARINE and OFFSHORE STRUCTURES	Fire resistance FTP Code Non-combustibility Smoke and Toxicity Surface spread of flame	Hydrocarbon DoE FRS 14-84:1990 IMO Resolution A754(18)1993 FTP Code [RES MSC 61(67)] IMO Resolution MSC 307(88) (2010 FTP Code) IMO A472(XII):1984/93 IMO A799(19):1995 ISO 5659-2:1994 ISO 5659-2:1998 ISO 5659-2:2006 ISO 5659-2:2017 IMO MSC 41(64) BS ISO 5658-2:2006+A1:2011 IMO ResA653(16) SOLAS/IMO 1986	A A A A A



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MODULAR SITE HUTS	Reaction to fire / fire tests	LPS 1195-1 issue 4:2005	C
SERVICE INSTALLATIONS Fire dampers, penetration seals, linear gap seals, closures, smoke extraction ducts and conveyors	Fire resistance	BS EN 1366-2:2015 BS EN 1366-3:2004 BS EN 1366-3:2009 BS EN 1366-4:2006 + A1:2010 BS EN 1366-8: 2004 BS EN 1366-9: 2008 BS EN 1366-10:2011+A1:2017 BS EN 1366-10: 2011 ISO 10294-1:1996 + A1:2014 ISO 10294-4:2001 BS ISO 10294-5:2005 BS EN 1366-7:2004 AS4072-1:2005 inc Amd 1:2006 ASTM E A814:2008b BS EN 15882-2 : 2015 Clause 5.2 Multiple assembly dampers only	A
	Classification of fire resistance of building service installations	BS EN 13501-3:2005 + A1:2009	A
VENTILATION SERVICE DUCTS	Fire resistance	BS 476:Part 24:1987 FTSG Resolution 70 ISO 6944:1985 (Withdrawn) BS EN 1366-1:2014 BS EN 1366-5:2010	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 4.1:2014 BS 7955:1999 (Section 6 and Annex C only)	A



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SUSPENDED CEILINGS PROTECTING STEEL BEAMS	Fire resistance	BS 476:Part 8:1972, Section 6 (Withdrawn) BS 476:Part 23:1987, Section 5 (including Amd 9458:1998) FTSG Resolutions 68 &70 ISO 834:1975 (Withdrawn)	A
PROTECTIVE COVERING MATERIALS	<u>Large Fire Tests</u> Smoke/toxicity	LPS 1207:Issue 3.1:2014 BS EN 2824:2011 BS EN 2825:2011 BS EN 2826:2011	A
RAILWAY ROLLING STOCK AND INFRASTRUCTURE	Fire tests	BS 6853:1999 (inc Amd 1) (Withdrawn)BS EN 45545-2:2013+A1:2015	A
PLASTICS, RUBBERS and RELATED MATERIALS	Horizontal burn characteristics	ASTM/D 635-96	A
	Specific optical density of smoke	BS 6401:1983	A
CABLES and MATERIALS	Oxygen index at elevated temperatures	BS EN ISO 4589-3:2017 BS EN ISO 4589-3:1996 ISO 4589-3:2017 LUL 2 - 01001 - 002: A1: 2003	A
	Determination of burning behaviour by Oxygen Index	BS EN ISO 4589-2:2017 BS EN ISO 4589-2:1999 ISO 4589-2:2017 ISO 4589-2:1996 ASTM D2863-17	A
	Smoke density	BS 6853:1999 Annex D BS EN ISO 5659-2:1999 BS EN ISO 5659-2:2017 prEN 3475-602:1999 BS EN 2824:2011 LUL 1-085:A1:2008	A



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CABLES and MATERIALS (cont'd)	Emissions, Toxicity and Density	prEN 3475-601:1999 LPS 1207:issue 3.1:2014 BMS 13-55D BS 6853:1999 Annex B1 & B2 (Withdrawn) LUL S1085:A4:2015 LUL 1-085:A3:2011 LUL 1-085:A2:2008	A
	Railway Applications	BS EN 45545-2:2013+A1:2015	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	BS EN 45545-2:2013+A1:2015	A
	Smoke emission	BS 7211:2012 Clause 16 BS 7211:1998 Clause 15 BS 7211:1994 Appendix D IEC 61034-1:1997 IEC 61034-1:2005 IEC 61034-1:2005+A1:2013 BS EN 61034-1:2005 BS EN 61034-1:2005+A1:2013 BS EN 50268-2:2000 LUL 2 - 01001 - 002: A1:2003 IEC 61034-2:1997 IEC 61034-2:2005+A1:2013 BS EN 61034-2:2005 BS EN 61034-2:2005+A1:2013 BS 6724:1990 BS 6724:2016 incorporating corrigenda 1 and 2 sections 12, 17.4, 17.6, 18.2 and 18.8 BS 6853:1987, Appendix B (Withdrawn) BS 6853:1999, Appendix D (Withdrawn) BS 7622-1:1993 (Withdrawn) BS 7622-2:1993 (Withdrawn) LUL E4156: A4, Clause 10.4: 2000 BS EN 50268-1:2000 (Withdrawn) 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 1660.5.2:2006 LUL S1085:A4:2015 LUL 1-085:A3:2011 LUL 1-085:A2:2008 BS 7846:2015 BS 7629-1:2015 BS 8592:2016 Sections 8, 12.2, 12.3, 12.4 and 13.2	A



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ELECTRICAL CABLES (cont'd)	Acid & corrosive gas emission	BS EN 50267-2-1:1999 (Withdrawn) IEC 60754-1:2011 EN 60754-1:2014 BS EN 50267-2-2:1999 (Withdrawn) BS EN 50267-2-3:1999 (Withdrawn) IEC 60754-2:2011 EN 60754-2:2014 AS/NZS 1660 5.3:1998 AS/NZS 1660.5.4:1998 BS 6425:Part 1:1990 (Withdrawn) BS 8592:2016 Sections 8, 12.2, 12.3, 12.4 and 13.2	A
	Fire performance (vertical tests)	IEC 60332-3-10:2009 BS EN 60332-3-10:2009 BS 4066:Part 3:1994 (Withdrawn) IEC 332-3: 1992 LUL 2 - 01001 - 002:A1: 2003 IEC 60332-3-21:2009 BS EN 60332-3-21:2009 BS EN 50266-2-1:2001 (Withdrawn) IEC 60332-3-22:2009 BS EN 60332-3-22: 2009 IEC 60332-3-22 + Amd 1:2008 BS EN 50266-2-2:2001 (Withdrawn) IEC 60332-3-23:2009 BS EN 60332-3-23: 2009 IEC 60332-3-23 + Amd 1:2008 BS EN 50266-2-3:2001 (Withdrawn) IEC 60332-3-24:2009 BS EN 60332-3-24: 2009 IEC 60332-3-24 + Amd 1:2008 BS EN 50266-2-4:2001 (Withdrawn) IEC 60332-3-25:2009 BS EN 60332-3-25: 2009 IEC 60332-3-25 + Amd 1:2008 BS EN 50266-2-5:2001 (Withdrawn) IEC 60332:Part 3:1992 (Withdrawn) LUL E4156: A4, Clause 10.3:2000 BS EN 50305:2002, Clause 9:1 BS EN 50306-1:2002, Clause 8:2 BS EN 50306-2:2002 Clauses 4:1a & 4:1b BS EN 50306-3:2002 Clauses 4:1, 4:1b & 4:1c BS EN 50306-4:2002 Clauses 4:1a,4.1b,4.1c & 4:1d	A



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ELECTRICAL CABLES (cont'd)	Fire performance (vertical tests) (cont'd)	AS/NZS 1660.5.1:2005 AS/NZS 1660.5.6:2005 LUL 1-085:A1:2008	
	Fire-resisting characteristics of electric cables	IEC 331:1970	A
	Vertical flame propagation on a single wire cable	BS 4066-2:1980 (Withdrawn) BS 4066-1:1980 (Withdrawn) IEC 60332-1-2:2004 IEC 60332-1-2:2004+AMD1:2015 BS EN 60332-1-2:2004 BS EN 60332-1-2:2004+A11:2016 BS EN 50265-2-1:1999 (Withdrawn) 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 (Withdrawn) BS 6387:1994, Clause 10 BS 7846:2015 BS 7846:2009 Clause 17.4.2 Clause 17.4.3 Clause 17.4.4 Clause 17.4.5 BS 7211:2012 clause 16 BS 7629-1:2015 BS 8592:2016 Sections 8, 12.2, 12.3, 12.4 and 13.2	A
	Reaction to fire of power, control and communication cables	BS EN 50575: 2014 BS EN 50575: 2014+A1:2016	A
	Heat release and smoke production	BS EN 50399:2011+A1:2016 BS EN 50399:2011	A
Fire classification	BS EN 13501-6: 2014	A	



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ELECTRICAL CABLES (cont'd)	<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 BS 6387:2013	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
	Resistance to fire	BS 7629-1:2015	A
	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 7629-1:1997 Clause 16.2 Clause 16.3 Clause 16.4 Clause 16.5	A
	Resistance to fire	BS 7846:1996, Clause 19.6 BS EN 50362:2003	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
	Resistance to fire	BS 7846:2015	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> (cont'd)		
	Resistance to fire	BS 8592:2016 Sections 8, 12.2, 12.3, 12.4 and 13.2	A
	Circuit Integrity	BS EN 50200:2000 BS EN 50200:2006 BS 8434-1:2003 (withdrawn) BS EN 50200:2015 BS 8434-2:2003 + Amd 2: 2009 BS 8519:2010 Clause 11 BS 5839-1:2017 [clause 26.2 (d) & (e)] BS 5839-1:2013 [clause 26.2 (d) & (e)] BS 5839-1:2008 [clause 26.2 (d) & (e)] BS 7346-6:2005 BS 8491:2008 AS/NZS 1660.5.5:2005	A
	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 (Withdrawn) IEC 60331-1:2009 IEC 60331-2:2009 IEC 60331-3:2009	A
Specification for mineral insulated cables	BS 6207-1:1995 (Withdrawn) Clauses 7.2.5, 7.3.1, 7.3.2 & 8.3 BS EN 60702-1:2002+A1:2015 Clauses 12.4, 12.5, 12.6 & 13.8 BS EN 60702-1:2002 Clauses 12.4, 12.5, 12.6 & 13.8	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> (cont'd) Visual Examination Inspection	BS 7629-1:2015 BS 7629-1:2008 (clause 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 & 12 BS 7846:2015 BS EN 60702-1:2002+A1:2015 Clause 9 BS EN 60702-1:2002, Clause 9 BS 8592:2016 Sections 8, 12.2, 12.3, 12.4 and 13.2	A
EXTERNAL CLADDING SYSTEMS	<u>Fire Tests</u> Fire performance & classification	BRE BR 135 2 nd edition 2003 Annex A BRE BR 135 3 rd edition 2013 Annex A and B BRE Fire Note 9:1999 BS 8414-1:2002 BS 8414-1:2015+A1:2017 BS 8414-2:2005 BS 8414-2:2015+A1:2017 BR 135:annex B:DG501	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	<u>Fire detection and fire alarm systems</u>		
	Heat sensitive detectors - Point detectors containing static element	BS 5445:Part 5:1977 (Amd 5762) EN 54:Part 5:1976 (+ A1:1998) BS EN 54-5:2001 (inc Amd No 1) EN 54-5:2000 ISO 7240-5:2003	A
	Point-type smoke detectors using scattered light, transmitted light or ionisation	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	A
	Control and indicating equipment	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	A
	Compatibility assessment of system components	BS EN 54-13:2005	A
	Fire alarm devices - Sounders	BS EN 54-3:2001 (incorporating Amd No 1 + A 2 (Amd 16462, 30 June 2006)) EN 54-3:2001	A
	Components of voice alarm systems - Loudspeakers	BS EN 54-24:2008 EN 54-24:2008	A
	Power supply equipment	BS EN 54-4:1998 (incorporating Amd No 1 & 2) EN 54-4:1997 BS ISO 7240-4:2003	A
	Multi-sensor Fire Detectors – Point detectors using a combination of smoke and heat sensors.	BS EN 54-29:2015	A
Manual call points	EN 54-11:2001 (incorporating amd 1 & corrigendum No 1)	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)	<u>Fire detection and fire alarm systems</u> (cont'd)		
	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	BS EN 54-17:2005 BS EN 54-18:2005 ISO 7240-17:2009 ISO 7240-18:2009	A
	Optical smoke detectors	BS EN 54-12:2002 EN 54-12:2002 EN 54-12:2015	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 All clauses except clause 6 (performed at location B)	A
Smoke Alarms	BS EN 54-21:2006 Clause 6	B	
Smoke alarm devices	BS EN 14604:2005		



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FIRE DETECTION & ELECTRONICS TESTING (cont'd)	<u>Fire detection and fire alarm systems</u> (cont'd) Gas Detectors Carbon monoxide detectors	BS EN 50291:2001 excluding clauses 4.2, 5.3.8, 5.3.12 and 5.3.13 BS EN 50291-1:2010 + A1:2012 excluding clauses 4.2, 5.3.8, 5.3.12 and 5.3.13	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 and fire alarm systems Electrical/Electronic apparatus and components, & Components for automatic fire detection and alarm systems & Security equipment and Intruder alarm systems & Automotive electrical and electronic components & Telecommunications equipment	ENVIRONMENTAL TESTS (non-explosive items) Climatic Low temperature - constant Minimum temperature: - 40 °C Chamber size: 1.5 m x 0.9 m x 1.2 m	BS EN 60068-2-1:2007 BS EN 60068-2-1:1993 (Amd 7783 & 8425) IEC 68-2-1:1990	A
	High temperature - constant Maximum temperature: 125 °C Chamber size: 1.5 m x 0.9 m x 1.2 m	BS EN 60068-2-2:1993 BS EN 60068-2-2:1993 (Amd 8430) BS EN 60068-2-2:2007 IEC 68-2-2:1974	A
	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 BS EN 60068-2-14:2009 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



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FIRE DETECTION AND FIRE ALARM SYSTEMS	Corrosion 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
	Dynamic Vibration - sinusoidal (at ambient temperatures) Frequency range: 2-3500 Hz Sine force (peak): 35.6 kN Maximum acceleration: 1079ms ⁻² (110g _n) Maximum velocity: 1.8ms ⁻¹ Maximum displacement: 50.8 mm (p-p)	BS EN 60068-2-6:1996:Fc BS EN 60068-2-6:2008 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 _{rms} Maximum velocity: 1.8ms ⁻¹ 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 ⁻² (225g _n) Maximum velocity: 3.8ms ⁻¹ Maximum displacement: 50.8 mm (p-p)	BS 2011:Ea:1987 BS EN 60068-2-27:1993:Ea BS EN 60068-2-27:2008 IEC 68-2-27:1987 (1993)	A
	Free Fall Drop Max ht: 2 m Max drop area: 0.5 m x 0.5 m	BS EN 60068-2-31:2008 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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FIRE DETECTION AND FIRE ALARM SYSTEMS (cont'd)	ENVIRONMENTAL TESTS (non-explosive items) Dynamic (cont'd) Bump - half sine (at ambient temperatures) Maximum force: 106 kN Maximum acceleration: 2207 ms ⁻² (225g _n) Maximum velocity: 3.8 ms ⁻¹ Maximum displacement: 50.8 mm (p-p)	BS 2011:Eb:1987 BS EN 60068-2-29:1993 (Amd 7827) IEC 68-2-29:1987 (1993)	A
	<u>EMC</u> 1.3 Radiated immunity (GTEM) 10kHz to 1GHz up to 100V/m 1GHz to 2GHz up to 30V/m performed in 10m x 4m x 3m GTEM cell Closed loop or substitution method	BS 6667:Part 3:1985 IEC 801-3:1984 ENV 50140:1994 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) EN 61000-4-20:2010 ENV 50204:1995 ISO 11452-3:2001 Thatcham Performance test Specification Issue 2:1996	A A A A A A
	1.4 Radiated immunity (3m Anechoic Chamber) 1 MHz to 2000 MHz up to 30 V/m	BS 6667:Part 3:1985 IEC 801-3:1984 ENV 50140:1994	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 AND FIRE ALARM SYSTEMS (cont'd)	<u>EMC</u> (cont'd)		
	1.4 Radiated immunity (3m Anechoic Chamber) (cont'd)	ENV 50204:1995	A
	80 MHz to 2700 MHz	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) EN 61000-4-3:2006 + A2:2010	A
	18 V/m		
	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 En 61000-4-6:2009	A
	Closed loop or substitution method		
Performed in screened enclosures	Directive 95/54/EC:1995 (Annex IX) UN Regulation No.10, Add.9/ Rev 2:1997 (Annex 9) Directive 97/42/EC:1997 (Chapter 8)	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 AND FIRE ALARM SYSTEMS (cont'd)	<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) EN 61000-4-2:2009	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) EN 61000-4-4:2004 +A1:2010	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) EN 61000-4-5:2006	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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FIRE DETECTION AND FIRE ALARM SYSTEMS (cont'd)	<u>EMC</u> (cont'd)		
	1.9 Mains Supply Voltage Variations and Dips	IEC 1000-4-11:1994 IEC 61000-4-11:1994 EN 61000-4-11:2004	A
	Voltages to 600 V, current to 16A		A
	1.10 Generic Standards	EN 61000-6-1:2001 BS EN 61000-6-1:2001 EN 61000-6-1:2007	A
		EN 61000-6-2:2001 BS EN 61000-6-2:2001 EN 61000-6-2:2005	A
	1.11 Product Specific Standards	EN 50130-4:1995 (Amd 1 & 2) BS EN 50130-4:1996 (Amd 1) EN 50130-4:2011 + A1: 2014	A
EN 50270:1999 BS EN 50270:1999 EN 50270:2006		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	



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FIRE DETECTION AND FIRE ALARM SYSTEMS (cont'd)	EMC (cont'd) 1.11 Product Specific Standards (cont'd)	DNV Certification Notes No 2.4:1995 & 2006	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
		Germanischer Lloyds Regulations for Performance of Type Tests Part 1:2012	A
		Thatcham Performance Test Specification Issue 2:1996	A
		Thatcham Performance Test Specification for Motorcycles Issue 1:1999	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
Fixed fire fighting systems. Hose systems. Hose reels with semi-rigid hose	Construction requirements Dimensional Performance Pressure	BS EN 671-1:2012	A & B
Fixed fire fighting systems. Hose systems. Hose systems with lay-flat hose	Construction requirements Dimensional Performance Pressure	BS EN 671-2:2001	A & B



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<p>FIRE FIGHTING SYSTEMS (REEL HOSES) (cont'd)</p> <p>Fire-fighting hoses - Semi-rigid hoses for fixed systems</p>	<p><u>Construction and Performance Tests (cont'd)</u></p> <p>Construction requirements Dimensional Performance Pressure</p>	<p>BS EN 694:2014</p>	<p>A & B</p>
<p>FIRE FIGHTING SYSTEMS (GAS COMPONENTS)</p> <p>Requirements and test methods for non-electrical automatic control and delay Devices</p>	<p>General design Connection threads Signal processing and indication System delay Function at ambient temperature Internal pressure Strength Operational reliability Corrosion Stress corrosion Vibration 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</p> <p>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 4.17 Clause 6</p>	<p>A</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>FIRE FIGHTING SYSTEMS (GAS COMPONENTS) (cont'd)</p> <p>Requirements and test methods for manual triggering and stop devices</p>	<p>Electrical triggering and stop devices</p> <p>Non-electrical triggering devices</p> <p>Documentation</p> <p>Marking</p>	<p>BS EN 12094-3:2003</p> <p>Clause 4.1</p> <p>Clause 4.2</p> <p>Clause 4.3</p> <p>Clause 6</p>	A
<p>Requirements and test methods for container valve assemblies and their actuators</p>	<p>Compliance</p> <p>General design</p> <p>Connection threads</p> <p>Function and ambient temperature</p> <p>Resistance to internal pressure</p> <p>Strength</p> <p>Leakage</p> <p>Operational Reliability</p> <p>Flow characteristics</p> <p>Corrosion</p> <p>Stress corrosion</p> <p>Vibration resistance</p> <p>Operating force</p> <p>Functional reliability</p> <p>Manual actuators</p> <p>Documentation</p> <p>Marking</p>	<p>BS EN 12094-4:2004</p> <p>Clause 4.1</p> <p>Clause 4.2</p> <p>Clause 4.3</p> <p>Clause 4.4</p> <p>Clause 4.5</p> <p>Clause 4.6</p> <p>Clause 4.7</p> <p>Clause 4.8</p> <p>Clause 4.9</p> <p>Clause 4.10</p> <p>Clause 4.11</p> <p>Clause 4.12</p> <p>Clause 4.14</p> <p>Clause 4.15</p> <p>Clause 4.16</p> <p>Clause 4.17</p> <p>Clause 6</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>FIRE FIGHTING SYSTEMS (GAS COMPONENTS) (cont'd)</p> <p>Requirements and Testing High and Low Pressure Selector Valves and their Actuators for all gases</p>	<p>General design Connection threads & flanges Function and ambient temperature Resistance to internal pressure & 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 4.7 Clause 4.9 Clause 4.10 Clause 4.11 Clause 4.12 Clause 6</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>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 Documentation Compliance Marking</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 5.3 Clause 6</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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FIRE FIGHTING SYSTEMS (GAS COMPONENTS) (cont'd)			
Requirements and test methods for mechanical weighing devices	Compliance Design Function at normal temperature Function at high and low temperature Overload Corrosion	BS EN 12094-11:2003 Clause 3.1 Clause 3.2 Clause 3.3 Clause 3.4 Clause 3.5 Clause 3.6	A
Requirements and test methods for mechanical weighing devices (cont'd)	Documentation Marking	BS EN 12094-11:2003 Clause 3.7 Clause 5	A
Requirements and test methods for pneumatic alarm devices	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	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	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<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 Compliance</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 Clause 5.3</p>	<p>A & B</p>
<p>Gaseous Fire Extinguishing Systems</p>	<p>Physical properties and system design</p>	<p>ISO 14520-1:2006 ISO 14520-1:2006 (General requirements) ISO 14520-2:2006 (CF 31 extinguishment) ISO 14520-3:2000 (FC-2-1-8 extinguishment) ISO 14520-4:2000 (FC-3-1-10 extinguishment) ISO 14520-5:2006 (FK-5-1-12 extinguishment) ISO 14520-6:2006 (HCFC Blend A extinguishment) ISO 14520-7:2000 (HCFC Blend 124 extinguishment)</p>	<p>A</p>



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FIRE FIGHTING SYSTEMS (GAS COMPONENTS) (cont'd)			
Gaseous Fire Extinguishing Systems (cont'd)	Physical properties and system design (cont'd)	BS ISO 14520-8:2006 (HFC 125 extinguishant)	
		BS ISO 14520-9:2006 (HFC 227ea extinguishant)	
		BS ISO 14520-10:2005 (HFC 23 extinguishant)	
		BS ISO 14520-11:2005 (HFC 236fa extinguishant)	
		BS ISO 14520-12:2005 (IG-01 extinguishant)	
		BS ISO 14520-13:2005 (IG-100 extinguishant)	
		BS ISO 14520-14:2005 (IG-55 extinguishant)	A
		BS ISO 14520-15:2005 (IG-541 extinguishant)	A
		BS EN 15004-1:2008	A
		BS EN 15004-2:2008 (FK-5-1-12 extinguishant)	A
		BS EN 15004-3:2008 (HCFC Blend A extinguishant)	A
		BS EN 15004-4:2008 (HFC 125 extinguishant)	A
		BS EN 15004-5:2008 (HFC 227ea extinguishant)	A
		BS EN 15004-6:2008 HFC 23 extinguishant	A



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FIRE FIGHTING SYSTEMS (GAS COMPONENTS) (cont'd)			
Gaseous Fire Extinguishing Systems (cont'd)	Physical properties and system design (cont'd)	BS EN 15004-7:2008 IG-01 extinguishant	A
		BS EN 15004-8:2008 (IG-100 extinguishant)	A
		BS EN 15004-9:2008 (IG-55 extinguishant)	A
		BS EN 15004-10:2008 (IG-541 extinguishant)	A
	Requirements for fire testing of fixed gaseous fire extinguishing systems	LPS 1230 issue 1.1:2005	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FIRE FIGHTING SYSTEMS (SPRINKLERS)	<u>Construction and Performance Tests</u>	BS EN 12259-1:1999 incorporating Amd 1:2001 2:2004 3:2006 and corrigendum No 1:2006 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
	Assembly Dimensions Operating temperatures Water flow and distribution Function Strength of body and deflector Strength of release element Leak resistance Heat exposure Thermal shock Corrosion Integrity of coatings Water hammer Thermal response Resistance to heat Resistance to vibration Resistance to impact Resistance to low temperature 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 3-10:2009 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) 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	A
FIRE FIGHTING SYSTEMS (VALVES, ACTUATORS, COUPLINGS, PRESSURE VESSELS, ETC)	Hydrostatic pressure to 700 bar	LPS 1040 LPS 1041 LPS 1185: issue 3.2:2014 LPS 1186 BS 5155:1984 BS 5160:1989 BS 6755:Part 1:1986	A
NATURAL STONE	<u>Geological Tests</u> Petrographic description <u>Mechanical Tests</u> Flexural strength under constant movement Flexural strength under concentrated load (loads from 0.04 to 100 kN) Compressive strength (loads from 100 to 2000 kN) Compressive strength (loads from 100 to 2000 kN) <u>Physical Tests</u> Bulk specific gravity Water absorption Water absorption Water absorption at atmospheric pressure	BS EN 12407:2007 BS EN 13161:2008 BS EN 12372:2006 BS EN 1926:2006 ASTM C170-09 ASTM C97/C97M-09 ASTM C97/C97M-09 BR141:1989 BS EN 13755:2008	A A 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
NATURAL STONE (cont'd)	<u>Physical Tests</u> (cont'd)		
	Water absorption coefficient by capillarity	BS EN 1925:1999	A
	Saturation coefficient	BR141:1989	A
	Porosity	BR141:1989	A
	Open porosity and apparent density	BS EN 1936:2006	A
	Sulphuric acid immersion	BR141:1989	A
	Unpolished slip resistance	BS EN 1341:2001, ANNEX D (withdrawn)	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 4:2011	A
	Surface roughness	The UK slip resistance group guidelines, Issue 4:2011	A
	Resistance to salt crystallisation	BS EN 12370:1999	A
	Breaking load at dowel hole	BS EN 13364:2002	A
	Resistance to ageing by thermal shock, excluding dynamic elastic modulus	BS EN 14066:2013	A
	Sensitivity to changes in appearance produced by thermal cycles	BS EN 16140:2011	A
Natural Stone Masonry Units	<u>Mechanical Tests</u>		
	Frost resistance	BS EN 12371:2010	A
	Compressive strength	BS EN 772-1:2011	A
	Water absorption due to capillary action	BS EN 772-11:2011	A
	Dimensions	BS EN 772-16:2011	A



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FLOORS	Slip resistance value	The assessment of floor slip resistance. The UK slip resistance group guidelines Issue 4:2011	B
SPRAYED CONCRETE	Flexural strengths (first peak, ultimate and residual) of fibre reinforced beam specimens	BS EN 14488-3:2006	A
METALLIC FIBRE CONCRETE	Flexural tensile strength (limit of proportionality (LOP), residual)	BS EN 14651:2005 + A1:2007	A
ROOFING SLATES	<u>Chemical Tests</u> Sulphuric acid immersion <u>Physical Tests</u> Water absorption Wetting and drying Thickness of individual slates Modulus of rupture and characteristic modulus of rupture Water absorption Freeze-thaw Thermal cycle Petrographic examination, excluding X-ray diffraction	BS 680:Part 2:1971 (withdrawn) BS 680:Part 2:1971 (withdrawn) BS 680:Part 2:1971 (withdrawn) BS EN 12326-2:2011 Clause 8 BS EN 12326-2:2011 Clause 10 BS EN 12326-2:2011 Clause 11 BS EN 12326-2:2011 Clause 12 BS EN 12326-2:2011 Clause 15 BS EN 12326-2:2011 Clause 16	A A A 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
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 tests	A
	Alarm systems: Intrusion and hold-up systems Warning devices	BS EN 50131-4:2009 Excluding water ingress and with impact test limited to 1 Joule	A
	Alarms systems: Intrusion and hold-up systems Power supplies	BS EN 50131-6:2008 BS EN 50131-6:2008 + A1:2014 BS EN 50131-6:2017 Excluding Water Ingress tests	A
	Alarm systems: Intrusion and hold-up systems Application specific requirements for supervised premises transceivers	BS EN 50131-10:2014 Excluding Water Ingress tests	A
	Alarm transmission systems and equipment	EN 50136-1-1:1998 + A2:2008	A
	Alarm transmission equipment and Supervised Premises transceivers	EN 50136-2-1:1998 + A2:2002 excluding clauses 5.12.2; 5.12.3 and 5.12.4 also Clause 7 (EMC requirements) is replaced by EN 50130-4:1996	A
	Alarm Systems – Alarm transmission systems and equipment	EN 50136-1:2012	A
	Supervised Premises transceivers	EN 50136-2:2013	A
	Receiving centre transceivers	EN 50136-3:2013	A
	Alarm Systems - Intrusion and Hold-Up Systems – Intrusion Detectors: Passive Infrared Microwave Combined Passive Infrared/Microwave	EN 50131-2-2: 2017 EN 50131-2-2:2008 EN 50131-2-3:2008 EN 50131-2-4:2008 Including walk testing at suitable sites	A B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECURITY EQUIPMENT (cont'd)	Alarm Systems - Intrusion and Hold Up Systems: Opening contacts (magnetic)	EN 50131-2-6:2008	A
	Environmental Test Methods	EN 50130-5:2011 Excluding clause 16 – IP testing (water ingress) IEC 62599-1:2010 Excluding clause 16 – IP testing (water ingress)	A
ELECTRONIC ACCESS CONTROL SYSTEMS	Alarm and Electronic Security System – Electronic Access Control Systems	BSEN 60839-11-1:2013 ISO 60839-11-1:2013 Excluding Solar Radiation and Dust Ingress Tests	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 16000-6:2011	A
	Determination of Formaldehyde	Documented In-house Method SP8/20/W using liquid desorption and HPLC. Method based on ISO 16000-3:2011 & MDHS 102	A
	<u>Sampling</u> Pumped sampling for volatile organic compounds in air	Documented in-house method SP8/19/W based on ISO 16000-6:2011	B
	Pumped sampling for Formaldehyde	Documented in house method SP/8/21/W based on ISO 16000-3:2011	B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WINDOWS	Weather tightness	BS 6375-1:2015	A
DOOR ASSEMBLIES - external, single leaf EXTERNAL DOORSETS - single and double leaf) - single swing - hinged - folding sliding - inward and outward opening - with or without integral side panels and fanlights -sliding doorsets - folding sliding doorsets	<u>Physical Tests</u> Security hardware and cylinder test (Parts 1 & 2) -Manipulation test Infill manual test Infill mechanical test Manual cutting test Mechanical loading test Manual check test Soft body impact test Hard body impact test	PAS 24:2016 PAS 24:2012	A



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WINDOWS: SINGULAR & MULTILIGHT - top hung (open out), side hung (open in and open out, bottom hung (open in), butt hinged - top and side hung (open out) projected - top hung fully reversible - tilt and turn and turn and tilt - fixed and dummy vents - parallel opening - double opening (French windows) - parallel opening	Manipulation test Infill manual test Infill mechanical test Mechanical loading test Manual check test	PAS 24:2016 PAS 24:2012	A
DOOR AND WINDOW	Air Permeability Watertightness Resistance to wind loads Weathertightness	BS EN 1026:2016 BS EN 1027:2016 BS EN 12211:2016 BS 6375:Part 1:2015	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
PEDESTRIAN DOORSETS (SINGLE AND MULTI-LEAF) & WINDOWS GROUPS 1 & 2	Burglar resistance Resistance under static loading Resistance classes 1, 2, 3, 4, 5 & 6	BS EN 1628:2011 BS EN 1627:2011 following the UK Police Service Secured By Design (SBD) interpretive document (issue 7, 27 March 2013) for BS EN 1627:2011, BS EN 1628:2011, BS EN 1629:2011 and BS EN 1630:2011	A
	Burglar resistance Resistance under dynamic loading Resistance classes 1, 2, 3, 4, 5 & 6	BS EN 1629:2011 BS EN 1627:2011 following the UK Police Service Secured By Design (SBD) interpretive document (issue 7, 27 March 2013) for BS EN 1627:2011, BS EN 1628:2011, BS EN 1629:2011 and BS EN 1630:2011	A
	Burglar resistance Resistance to manual burglary attempts Resistance classes 1, 2, 3, 4, 5 & 6	BS EN 1630:2011 BS EN 1627:2011 following the UK Police Service Secured By Design (SBD) interpretive document (issue 7, 27 March 2013) for BS EN 1627:2011, BS EN 1628:2011, BS EN 1629:2011 and BS EN 1630:2011	A
SAFES, ATM SAFES, STRONGROOM DOORS & STRONGROOMS	Classification of resistance to burglary	BS EN 1143-1:2012 excluding clauses 8.2, 9 and 10	A
SECURE SAFE CABINETS	Classification of resistance to burglary	BS EN 14450:2005	A
AIR TERMINAL DEVICES	Air Leakage under positive pressure	BS EN 1751:2014 Clause 5 only	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HEAT PUMPS Air to water	Thermal performance tests to determine capacity, COP and EER and fit for use requirements.	BS EN14511-1: 2013 BS EN14511-2: 2013 BS EN14511-3: 2013 BS EN14511-4: 2013 clauses 4, 5, 6.1, 6.2.1, 6.2.2, 6.3, 6.4 and 7.	A
	Testing and rating at part load conditions and calculation of seasonal performance	EN 14825:2016	A
END			



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<i>Directive / Regulation</i>	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- Test Laboratory System 3,	95/467/EC Gypsum products (1/4): Plasterboards and ceiling elements with thin laminations, fibrous gypsum boards, fibrous gypsum plaster casts, and composite panels (laminates), in which the incorporated material is placed on a face susceptible to be exposed to fire, including relevant ancillary products (in walls, partitions or ceilings (or lining thereof) subject to reaction to fire requirements).	EN 14209:2005 EN 14496:2005 EN 520:2004+A1:2009
	Annex V- Test Laboratory System 3,	95/467/EC Gypsum products (2/4): Plasterboards, blocks, ceiling elements and gypsum plasters, fibrous gypsum plasters casts, including relevant ancillary products (in walls, partitions or ceilings, as relevant, intended for fire protection of structural elements and/or fire compartmentation in buildings).	EN 12859:2011 EN 12860:2001 EN 12860:2001/AC:2002 EN 13279-1:2008 EN 14195:2005 EN 14195:2005/AC:2006 EN 520:2004+A1:2009
	Annex V- Test Laboratory System 3,	96/580/EC Curtain wallings (1/1): Curtain wall kits (as external walls subject to reaction to fire requirements).	EN 13830:2003
	Annex V- Test Laboratory 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 12057:2004 EN 12058:2004



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<i>Directive / Regulation</i>	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- Test Laboratory System 3,	98/436/EC Roof coverings, rooflights, roof windows and ancillary products (1/6): Rooflights (for uses subject to resistance to fire regulations (e.g. fire compartmentation)).	EN 1873:2005
	Annex V- Test Laboratory 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 reaction to fire regulations).	EN 1304:2005 EN 490: 2011 EN 490:2004/A1:2006 EN 492:2004 EN 492:2004/A1:2005 EN 492:2004/A2:2006 EN 492:2012 EN 544:2011
	Annex V- Test Laboratory System 3,	98/436/EC Roof coverings, rooflights, roof windows and ancillary products (2/6): Rooflights (for uses subject to reaction to fire regulations).	EN 494:2012 +A1:2015 EN 1873:2005
	Annex V- Test Laboratory 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 490: 2011 EN 490:2004/A1:2006 EN 492:2004 EN 492:2004/A1:2005 EN 492:2004/A2:2006 EN 492:2012 EN 494:2012+A1:2015 EN 544:2011 EN 1304:2005
	Annex V- Test Laboratory System 3,	98/436/EC Roof coverings, rooflights, roof windows and ancillary products (3/6): Rooflights (for uses subject to external fire performance regulations).	EN 1873:2005



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<i>Directive / Regulation</i>	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- Test Laboratory System 3,	98/436/EC Roof coverings, rooflights, roof windows and ancillary products (3/6): Flat and profiled sheets (for uses subject to external fire performance regulations).	EN 494:2012+A1:2015
	Annex V- Test Laboratory System 3,	98/437/EC Internal and external wall and ceiling finishes (1/5): Panels (as internal or external finishes, as complete elements, used for fire protection of walls or ceilings).	EN 438-7:2005
	Annex V- Test Laboratory System 3,	98/437/EC Internal and external wall and ceiling finishes (1/5): Suspended ceilings (kits) (as internal or external finishes used for fire protection of ceilings).	EN 13964:2004 EN 13964:2004/A1:2006
	Annex V- Test Laboratory System 3,	98/437/EC Internal and external wall and ceiling finishes (3/5): Suspended ceilings (kits) (as internal or external finishes in ceilings subject to reaction to fire regulations).	EN 13964:2004 EN 13964:2004/A1:2006
	Annex V- Test Laboratory System 3,	98/437/EC Internal and external wall and ceiling finishes (3/5): Coverings in roll form (as internal finishes in walls or ceilings subject to reaction to fire regulations).	EN 14716:2004



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<i>Directive / Regulation</i>	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- Test Laboratory System 3,	98/437/EC Internal and external wall and ceiling finishes (3/5): Panels (as internal or external finishes in walls or ceilings subject to reaction to fire regulations).	EN 438-7:2005
	Annex V- Test Laboratory System 3,	99/90/EC Membranes (2/3): Water vapour control layers (for uses subject to reaction to fire regulations).	EN 13859-2:2010 EN 13970:2004 EN 13970:2004/A1:2006
	Annex V- Test Laboratory System 3,	99/90/EC Membranes (2/3): Roof sheets (for uses subject to reaction to fire regulations).	EN 13707:2004+A2:2009 EN 13956:2005 EN 13956:2005/AC:2006 EN 13956:2012
	Annex V- Test Laboratory System 3,	99/90/EC Membranes (2/3): Damp proofing sheets (for uses subject to reaction to fire regulations).	EN 13967:2004 EN 13967:2004/A1:2006 EN 13967:2012 EN 13969:2004 EN 13969:2004/A1:2006
	Annex V- Test Laboratory System 3,	99/90/EC Membranes (3/3): Roof sheets (for uses subject to external fire performance regulations).	EN 13707:2004+A2:2009 EN 13956:2005 EN 13956:2005/AC:2006 EN 13956:2012
	Annex V- Test Laboratory System 3,	99/91/EC Thermal insulating products (2/2): Thermal insulating products (factory-made products and products intended to be formed in-situ) (for uses subject to regulations on reaction to fire).	EN 13162:2012+A1:2015 EN 13163:2012+A1:2015 EN 13164:2012+A1:2015 EN 13165:2012 + A2:2016 EN 13166:2012+A2:2016 EN 13167:2012+A1:2015 EN 13168:2012+A1:2015 EN 13169:2012+A1:2015 EN 13170:2012+A1:2015 EN 13171:2012+A1:2015



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<i>Directive / Regulation</i>	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- Test Laboratory System 3,	99/91/EC Thermal insulating products (2/2): Thermal insulating products (factory-made products and products intended to be formed in-situ) (for uses subject to regulations on reaction to fire). (cont'd)	EN 13168:2008 EN 13168:2012 EN 13169:2008 EN 13169:2012 EN 13170:2008 EN 13170:2012 EN 13171:2008 EN 13171:2012
	Annex V – Test Laboratory System 3,	99/93/EC Doors, windows, shutters, blinds, gates and related building hardware (1/1): Doors and gates (with or without related hardware) other declared specific uses and/or uses subject to other specific requirements, in particular noise, energy, tightness and safety-in-use (i.e. NOT for fire/smoke compartmentation, NOT for escape routes).	EN 14351-1:2006+A1:2010
	Annex V- Test Laboratory System 3,	99/469/EC Products related to concrete, mortar and grout (2/2): Concrete protection and repair products (for uses subject to reaction to fire regulations).	EN 1504-2:2004 EN 1504-3:2005 EN 1504-4:2004
	Annex V- Test Laboratory System 3,	2000/245/EC Flat glass, profiled glass and glass-block products (2/6): Insulating glass units (for uses subject to reaction to fire regulations).	EN 1279-5:2005+A2:2010



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<i>Directive / Regulation</i>	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- Test Laboratory System 3,	2000/245/EC Flat glass, profiled glass and glass-block products (2/6): Flat or curved glass panels (for uses subject to reaction to fire regulations).	EN 1096-4:2004 EN 12150-2:2004 EN 12337-2:2004 EN 1279-5:2005+A2:2010 EN 13024-2:2004 EN 14178-2:2004 EN 14179-2:2005 EN 14321-2:2005 EN 14449:2005 EN 14449:2005/AC:2005 EN 1748-1-2:2004 EN 1748-2-2:2004 EN 1863-2:2004 EN 572-9:2004
	Annex V- Test Laboratory System 3,	2000/245/EC Flat glass, profiled glass and glass-block products (3/6): Insulating glass units (for uses subject to external fire performance regulations).	EN 1279-5:2005+A2:2010
	Annex V- Test Laboratory System 3,	2000/245/EC Flat glass, profiled glass and glass-block products (3/6): Flat or curved glass panels (for uses subject to external fire performance regulations).	EN 1096-4:2004 EN 12150-2:2004 EN 12337-2:2004 EN 1279-5:2005+A2:2010 EN 13024-2:2004 EN 14178-2:2004 EN 14179-2:2005 EN 14321-2:2005 EN 14449:2005 EN 14449:2005/AC:2005 EN 1748-1-2:2004 EN 1748-2-2:2004 EN 1863-2:2004 EN 572-9:2004
	Annex V – Test Laboratory System 3,	2011/284/EU Power, control and communication cables (1/3):- Power, control and communication cables (for uses subject to regulations on reaction to fire).	EN 50575:2014+A1:2016

END