


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

	<b>Warrington Fire Research Centre</b>	
	<b>Issue No: 022    Issue date: 29 April 2004</b>	
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<b>Testing performed at permanent laboratory premises</b>		

### SUMMARY OF ACCREDITATION

#### CONSTRUCTION

Building hardware  
Doors & door furniture  
Glazing  
Fire resistance & protection, reaction to fire  
Building components & materials  
Ducts, ventilators & sealants  
Extinguishers, hydrants and extinguishing systems  
Fuel tanks, drums & pressure vessels  
Marine constructions  
Motor vehicle, railway stock & aircraft materials  
Valves, hoses & associated pipework  
Smoke emission & toxicity  
Cables, plastics, glazing & rubber materials  
Marine constructions  
Motor vehicle, railway stock & aircraft materials  
Sports & playground surfaces  
Fire

Plastics & rubber  
Plastics & rubber  
Tent fabric  
Fire  
Textiles, leather & general fabrics  
Fire

#### ELECTRICAL

Wiring & accessories  
Cables  
General

#### ENGINEERING MATERIALS, MACHINERY, STRUCTURES & PRODUCTS

Machinery & mechanical devices  
Office equipment

#### FOSSIL FUEL BURNING APPLIANCES

Gas appliances  
Meters

#### TEXTILES, PLASTICS, RUBBER, PAPER & PACKAGING

Carpet  
Carpet, mats & floor covering  
Curtains & drapes  
Fire  
Furniture  
Fire





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
BUILDING MATERIALS and STRUCTURES (cont'd)	Surface spread of flame	BS 476:Part 7:1997 Certifire TS 19 Test method only BS ISO TR 5658-1:1997 BS ISO 5658-2:1996
	Flammability	UL 94 :1996
	Heat emission	BS 476 Part 11:1982
	Heat release	BS 476 Part 15:1993 ISO 5660-1:2002 AS/NZS 3837:1998
	Full-scale room test	BS 476:Part 33:1993 prEN 14390 ISO 9705:1993
	Intermediate scale test	BS EN 13823:2002
	Heat of combustion	BS EN ISO 1716:2002
	Smoke tests	BS 6401:1983 BS EN ISO 5659-1:1999 BS EN ISO 5659-2:1999 ASTM E662:2003
	Fire resistance classification	prEN 13501-2 prEN 13501-3 prEN 13501-4
	Fire resistance tests (general)	BS 476 Part 8:1972 (withdrawn) BS 476 Part 20:1987 Fire Test Study Group Resolution 70 BS EN 1363-1:1999 BS EN 1363-2:1999 DD ENV 1363-3:1999 ISO 834:1975 (withdrawn) ISO 834-1:1999 ASTM E119:2000 AS 1530-4:1997



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WALLS and PARTITIONS	Fire resistance	BS 476 Part 21:1987 Section 8 BS 476 Part 22:1987:Section 5 Fire Test Study Group Resolutions 47, 51 and 70 BS EN 1364-1:1999 BS EN 1365-1:1999 prEN 1364-3 prEN 1364-4 DD ENV 13381-5:2002 LPS 1181:1999
VERTICAL PROTECTIVE MEMBRANES	Fire resistance	DD ENV 13381-2:2002
GLAZING	Fire resistance	BS 476 Part 22:1987:Section 10 ISO 3009:1976 Certifire TS25 Test method only
FLOORS and FLAT ROOFS	Fire resistance	BS 476 Part 21:1987:Section 7 Fire Test Study Group Resolution 67 and 70 BS EN 1365-2:1999
PLATFORM FLOORS (RAISED ACCESS FLOORS)	Fire resistance	prEN 1366-6 MOB PF2 PS/SPU:1992 (fire test only)
INSULATED PANELS	Fire resistance	LPS 1208:1999 (Test method only)
SUSPENDED CEILINGS PROTECTING STEEL BEAMS	Fire resistance	BS 476 Part 23:1987:Section 5 Fire Test Study Group Resolution 68 and 70 prENV 13381-1
CEILING MEMBRANES	Fire resistance	BS 476 Part 22:1987:Section 9 BS EN 1364-2:1999
COLUMNS	Fire resistance	DD ENV 13381-6:2002 (non loadbearing) (Test method only)



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BEAMS	Fire resistance	BS 476 Part 21:1987:Section 5 Fire test Study Group Resolution 47 and 70 BS EN 1365-3:1999
	Fire resistance (of board/spray protection)	Certifire TS14 Test method only
	Fire resistance (of intumescent coatings)	Certifire TS15 Test method only
COLUMNS and BEAMS	Fire resistance	DD ENV 13381-3:2002 DD ENV 13381-4:2002 (except 5.2.3) (Test method only)
DOORS and SHUTTER ASSEMBLIES	Fire resistance	BS 476 Part 22:1987:Sections 6, 7 and 8 Fire Test Study Group Resolutions 51 and 70 BS EN 1634-1:2000 (incorporating relevant part of BS EN 1191:2000) prEN 81-58 ISO 3008:1976 Certifire TS10, TS12, TS23, TS24, TS26, TS31, TS34 Test methods only
	Smoke leakage	BS EN 1634-3:2001 (ambient test) Documented in-house method based on BS 476 Section 31.1:1983 and ISO 5925-1:1981 Certifire TS21 Test method only
INTUMESCENT SEALS	Contribution to the fire resistance of timber door assemblies	BS 476:Part 23:1987:Section 6 Certifire TS11:1990 Test method only BS ISO 12472:2003
PENETRATION SEALS	Fire resistance	prEN 1366-3 Certifire TS03 Test method only
LINEAR JOINT SEALS	Fire resistance	prEN 1366-4



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VENTILATION DUCTS	Fire resistance	BS 476: Part 24: 1987 BS EN 1366-1:1999 ISO 6944:1985
DAMPERS	Fire resistance	BS EN 1366-2:1999 BS ISO 10294-1:1996
SMOKE EXTRACTION DUCTS	Fire resistance	pr EN 1366-8
COMPONENTS FOR NATURAL SMOKE AND HEAT EXHAUST VENTILATORS	Fire resistance	BS EN 12101-2:2003 BS 7346:Part 1:1990 appendices B & C In-house test method WFR TP 005: Dec 1999 based on BS 7346:Part 1:1990:Appendix B In-house test method WFR TP 006: Dec 1999 based on BS 7346: Part 1:1990:Appendix C Certifire TS16:Appendices 2 & 3 Test method only
POWERED SMOKE AND HEAT EXHAUST VENTILATORS	Fire resistance	BS 7346:Part 2:1990 WFRC Documented In-House Method based on BS 7346:Part 2:1990
SMOKE CURTAIN and COMPONENTS	Fire resistance	BS 7346:Part 3:1990 Clause 3.2.3, 4.1, 4.2, 4.3 prEN 12101-1



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CABLES	Flame propagation  Circuit integrity test  Smoke emission	IEC 60332-1:1993 IEC 60332-2:1989 BS 7846:2000 CEI IEC 60331-11:1999 (04)  BS 6387:1994 BS 7629 Part 1:1997 IEC 60331-21:1999  BS 6724:1997 BS EN 50268-1:2000 BS EN 50268-2:2000 BS EN 60702-1:2002 BS EN 60702-2:2002 IEC 61034-1:1997 IEC 61034-2:1997
CABLES AND MATERIALS	Corrosive gas emission	BS EN 50267-1:1999 BS EN 50267-2-1:1999 BS EN 50267-2-2:1999 BS EN 50267-2-3:1999 IEC 60754-1:1994 IEC 60754-2:1991 NF X70-100-1:2001 NF X70-100-2:2001
CABLES AND GENERAL PLASTICS MATERIALS	Oxygen index	BS EN ISO 4589-2:1999 BS EN ISO 4589-3:1999 ASTM D2863:2000



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MARINE CONSTRUCTIONS	<p>Fire tests</p> <p>Non combustibility</p> <p>Flammability</p> <p>Smoke test</p> <p>Smoke and toxicity</p> <p>Ignition test for furniture</p>	<p>LRS Survey of passenger ships vol 11 (rule 54 para 6.2) IMO Resolution A687(17):1991 IMO Resolution A688(17):1991 IMO Resolution A753(18):1993 Appendix 3 IMO Resolution A754(18):1993 IMO Resolution MSC 61 (67):1996 annex 1: part 6</p> <p>IMO Resolution MSC 61 (67):1996 annex 1: part 1</p> <p>IMO Resolution MSC 61 (67):1996 annex 1: part 5</p> <p>BS EN ISO 5659-2:1999 Defence Standard 02-711:2000</p> <p>IMO Resolution MSC 61 (67):1996 annex 1: part 2 BS ISO TR 9122-3:1993 ISO CD 9122-3 (draft rev ISO TR 9122-3:1993) WFRC operating procedure 006:issue 1 May 2000</p> <p>IMO Resolution A471 (XII): 1981, amended by IMO Resolution A563 (14) IMO Resolution A652(16)</p>
GENERAL OFFSHORE CONSTRUCTIONS	Fire resistance	<p>Fire resistance test using NPD Regulations for production and auxiliary systems on production installations' (para 6.2.4)</p> <p>Fire resistance test using Dept of Environment hydrocarbon fire resistance test for elements of construction for offshore installations. Test specification issue 1 January 1990</p>



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GENERAL MATERIALS FOR CONSTRUCTION OF RAILWAY PASSENGER STOCK AND BUILDING CONSTRUCTION	Flammability temperature index  Smoke emission and toxicity	BS 6853:1987 Appendix A BS EN ISO 4589-3:1996  BS 6401:1983 BS 6853:1999 Annex B1, B2, BS 6853:1999 Annex D BS EN ISO 5659-2:1999 BS ISO TR 9122-3:1993 ISO CD 9122-3 (draft rev ISO TR 9122-3:1993) ASTM E662:2003 NF X10-702-1:1995 NF X10-702-2:1994 NF X10-702-3:1994 NF X10-702-4:1994 NF X10-702-5:1994 Defence Standard 02-711:2000 WFRC Operating procedure 006: issue 1 May 2002
GENERAL MATERIALS FOR TRANSPORT AND BUILDING CONSTRUCTION	Oxygen index  Toxicity index  Flammability temperature index  Glow wire test	BS EN ISO 4589-1:2000 BS EN ISO 4589-2:1999 Defence standard 02-713:2000  BS EN ISO 4589-3:1996  BS 6458 Part 2.1:1984 BS 7447:1991 BS EN 60695-2-10:2001 BS EN 60695-2-11:2001 BS EN 60695-2-12:2001 BS EN 60695-2-13:2001
INTERIOR MATERIALS for MOTOR VEHICLES	Fire tests	BS AU 169a:1992 ISO 3795:1989 EC Directive 95/28/EC Annex IV, Annex V and Annex VI FMVSS 302:1972



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FLOOR COVERINGS	Hot metal nut test – including :-  assessment and labelling  Flammability	BS 4790:1987  BS 5287:1988  BS 6307:1982 BS EN ISO 9239-1:2002 BS ISO 9239-1:1997 (withdrawn) ISO 6925:1982 DIN 4102-14: 1990 ASTM E648:1999 ASTM E648:2003
WALL and CEILING LININGS	Extent of fire damage	DIN 4102-1:1998 DIN 4102-15:1990 DIN 4102-16:1998
SCAFFOLD CLADDING	Flammability	LPS 1215:1998
FABRICS for TENTED STRUCTURES	Ignitability	BS 7157:1989
FABRICS and FABRIC ASSEMBLIES	Ignitability  Flammability	BS 7157:1989  BS 5438:1976
CURTAINS and DRAPES	Flammability	BS 5867 Part 2:1980
FIRE BLANKETS	Performance tests	BS EN 1869:1997
GENERAL MATERIALS FOR AIRCRAFT INTERIORS	Flammability	ABD 0031:2003



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PLASTICS	Rate of burning (Laboratory method)  Smoke	BS 2782 Part 5: Method 508A:1970 BS 2782:Part 1: Method 140E:1982 BS 2782:Part 1: Method 140D:1980 BS 2782:Part 1: Method 140D:1997  BS ISO TR 5659-3:1999
PLASTICS and RUBBER MATERIALS	Horizontal burning test	BS 4735:1974
PLAYGROUND SURFACES	Hot metal nut test	BS 7188:1998
AIRCRAFT WALKWAYS	Fire resistance	NFPA 415:2002
GAS METERS	Fire resistance	BS EN 1359:1999, clause 6.5.5
CONTAINERS FOR RADIOACTIVE MATERIALS IN TRANSIT	Fire resistance	IAEA Regulations for the Safe Transport of Radioactive Materials, 1985, and Supplement 1988, Paragraph 628
TRANSPORT DRUMS	Fire test	Amersham International plc. IPM 108, issue 1:1991
FILING CABINETS and DATA CABINETS	Fire resistance	NT Fire 017: 1997
	END	