

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS TESTING</b> 1066</p> <p>Accredited to <b>ISO/IEC 17025:2005</b></p>	<p><b>BTTG Ltd</b></p> <p><b>Issue No: 034 Issue date: 20 February 2012</b></p>	
	<p><b>Unit 14</b> Wheel Forge Way Ashburton Road West Trafford Park Manchester M17 1EH</p>	<p><b>Contact: Dr P Hamlyn</b> <b>Tel: +44 (0)161 873 6543</b> <b>Fax: +44 (0)161 848 7378</b> <b>E-Mail: info@bttg.co.uk</b> <b>Website: www.bttg.co.uk</b></p>
<p><b>Testing performed by the Organisation at the locations specified below</b></p>		

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

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b> BTTG Testing &amp; Certification Ltd BTTG - High Performance Materials Unit 14 Wheel Forge Way Ashburton Park Ashburton Road West Trafford Park Manchester M17 1EH</p> <p><b>Local contact</b> Mrs C Austin Tel: +44 (0)161-873 6543 Fax: +44 (0)161-848 7378 Email: caustin@bttg-hpm.co.uk</p>	<p><u>Testing:</u> Fibres Coated Fabrics Textiles, Made-up Textiles Protective Clothing Gloves Geotextiles, Geomembranes Geosynthetic Clay Liners Roofing Membranes Textile Floor Coverings Upholstery</p>	A
<p><b>Address</b> BTTG Testing &amp; Certification Ltd Fire Technology Services Unit 4B Stag Industrial Estate Atlantic Street Broadheath Altrincham Cheshire WA14 5DW</p> <p><b>Local contact</b> Mr P M Eaton Tel: +44 (0)161-929 8056 Fax: +44 (0)161-929 8070 Email: pmeaton@bttg-fts.co.uk</p>	<p><u>Testing:</u> Textiles Protective Clothing Gloves</p>	B
<p><b>Address</b> Shirley Technologies Ltd Unit 12 Westpoint Enterprise Park Clarence Avenue Trafford Park Manchester M17 1QS</p> <p><b>Local contact</b> Dr A Sagar Tel: +44 (0)161-869 1610 Fax: +44 (0)161-872 6492 Email: tony.sagar@shirleytech.co.uk</p>	<p><u>Testing:</u> Coated Fabrics Textiles, Made-up textiles Protective clothing Gloves Textile Floor Coverings Leather Paint and varnishes Toys Upholstery Process chemicals</p>	C



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<b>Address</b> BTTG Testing & Certification Ltd Wira House West Park Ring Road Leeds West Yorkshire LS16 6QL	<b>Local contact</b> Mr M Nunney  Tel: +44 (0)113-259 1999 Fax: +44 (0)113-278 0306 Email: mike.nunney@bttg.co.uk	<b>Testing:</b> Textiles Textile floor coverings Toys Furniture and furnishings Bedding and bedding composites Building materials Floor and wall coverings Impact absorbing playground surfaces Gymnasium equipment Tents	D
<b>Address</b> Shirley Technologies Ltd Wira House West Park Ring Road Leeds West Yorkshire LS16 6QL	<b>Local contact</b> Mrs J Bullers  Tel: +44 (0)113-259 1999 Fax: +44 (0)113-278 0306 Email: julia.bullers@shirleytech.co.uk	<b>Testing:</b> Fibres Yarns Textiles, Made up textiles Upholstery and furnishing Fabrics Tents Coated Fabrics Toys	E



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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
FIBRES, YARNS, FABRICS, COATED FABRICS, MADE UP TEXTILES	<u>Biological Tests and related Opinions and Interpretations</u>		
	Inherent antibacterial properties	Documented In-House Method STS 51:2005	C
	% reduction in colony counts (antimicrobial activity)	ASTM E 2149-01 (withdrawn) ASTM E 2149-10	C
	Evaluation of antibacterial finishes	AATCC 100:2004	C
	Examination of antibacterial effect of impregnated textiles by agar diffusion test	SNV 195920:1994	C
	Examination of antimycotic effect of impregnated textiles by agar diffusion	SNV 195921:1994	C
	Assessment of textiles for antifungal activity: soil burial, mildew and rot resistance	AATCC 30:2004	C
	Resistance of textiles to microbiological deterioration by soil burial	BS 6085:1992 (superseded, withdrawn)	C
Resistance of textiles to microbiological deterioration	BS EN 14119:2003 BS 6085:1992 Sections 3 & 5 (superseded)	C	
Antibacterial assessment of diffusible agents	AATCC 147:2004	C	
FILLING MATERIALS			
Fillings and stuffings other than feather and/or down	Cleanliness	BS 1425:Part 1:1991	C
Feather and/or down	Cleanliness	BS 1425:Part 2:1991 (superseded)	C



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FIBRES, YARNS, FABRICS, COATED FABRICS, MADE-UP TEXTILES, LEATHER etc	<u>Composition and Chemical Tests and related Opinions and Interpretations</u>		
	Quantitative analysis of fibre mixtures	BS 4407:1988 excluding Method 17 (withdrawn)  EU directives 73/44/EEC (Annexes I, II, III) and 96/73/EC (Annexes I,II) as amended by 2006/2/EC (Annex) and 2007/4/EC	C & E
	Qualitative analysis of: Binary fibre mixtures Ternary fibre mixtures	BS EN ISO 1833:2011	C & E
	Conductivity, pH, water-soluble matter, in aqueous extracts	BS 3266:1981 Section 8.3 (withdrawn)	C & E
		BS 5F 100:1991:Methods 43 to 45 and BS 6F 100:1998, Sections 4.2 to 4.4	C
	pH of aqueous extracts	BS EN ISO 3071:2006	C & E
	Nitrogen content	Documented In-House Method STS 36:2011	C
	Solvent extractable matter	BS 8459:2005	C & E
	Oil, fats and waxes in wool	BS 3582:1981 (withdrawn)	C & E
	Degree of cure measurements	Documented In-House Method 37	C
	Free and hydrolysed formaldehyde	BS EN ISO 14184:Part 1:2011	C
	Phthalates	BS EN 15777:2009 CPSC-CH-C1001-09.1	C
	Wet ashing	BS 6648:1986	C
Determination of soluble hexavalent chromium	BS 6810:1987 EN 420 Annex B	C	



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FIBRES, YARNS, FABRICS, COATED FABRICS, MADE-UP TEXTILES, LEATHER etc (cont'd)	<u>Colour Fastness Tests and related Opinions and Interpretations</u>	<u>BS 1006:1990</u> <u>BS EN 20105:various</u> <u>BS EN ISO 105:various</u>	
	Artificial light - Xenon arc	B02:1999	E & D
	Weathering	B04:1997	E
	Washing and laundering	C01-C05 (superseded) C10:2007	E
	Domestic and commercial laundering	C06:2010, C08:2001	E
	Dry cleaning	D01:1995 (withdrawn) D01:2010	E
	Rubbing with organic solvents	D02:1996	C, D & E
	Water	E01:1996 (withdrawn) E01:2010	C, D & E
	Sea water	E02:1996	C, D & E
	Chlorinated water	E03:1997 (withdrawn) E03:2010	C
	Perspiration	E04:1996 (withdrawn) E04: 2009	C & E
	Spotting (acid and alkali)	E05:1997 (withdrawn):2006 E06:1997 (withdrawn):2006	C
	Spotting (water)	E07:1997 (withdrawn) E07:2010	C & E
	Colour and colour difference	J01-J03:1997, A05:1996	C
	Bleaching agencies	N01-N04:1995	C
Rubbing	X12:2002	C, D & E	



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FIBRES	<u>Physical Tests and related Opinions and Interpretations</u>		
	Strength	BSENISO 5079:1996	E
	Length	ISO 6989:1981	E
	Diameter	BS 2043:1968 ISO 137:1975	D & E
YARNS	<u>Physical Tests and related Opinions and Interpretations</u>		
	Strength of yarn from packages	BS EN ISO 2062:2009	E
	Linear density of yarn from packages	BS EN ISO 2060:1995	E
	Twist of yarn	BS EN ISO 2061:2010	E
	Twist of yarn (re-twist method)	ASTM D1422:1992	E
	Levelness	IWTO-18-00	E
WOOL	Correct invoice mass	BS 4784:1998 Parts 1, 2, 3 (withdrawn)	E
FIBRES, YARNS, FABRICS, COATED FABRICS, MADE-UP TEXTILES, LEATHER etc	<u>Physical Tests and related Opinions and Interpretations</u>		
	Width	BS EN ISO 2286-1:1998 BS 1930:1990 (withdrawn) BS EN 1773:1997 BS ISO 22198:2006	E
	Mass per unit area	BS EN ISO 2286-2:1998 BS 2471:1978 (withdrawn) BS EN 12127:1998 BS 6F 100:1998, Section 3.2	E



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FIBRES, YARNS, FABRICS, COATED FABRICS, MADE-UP TEXTILES, LEATHER etc (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	Thickness	BS EN ISO 2286-3:1998 BS 2544:1987 (withdrawn) BS EN ISO 5084:1997	E
	Threads per unit length	BS EN 1049/2 :1994, BS 6F 100:1998, Section 3.1	E
	Yarn crimp from fabric	ISO 7211/3	E
	Yarn twist from fabric	ISO 7211/4	E
	Yarn count from fabric	ISO 7211/5	E
	Constructional Properties of Knitted Fabrics:	BS 5441:Sections 2 and 3:1988 BS EN 14970:2006 BS EN 14971:2006	E
	Tensile strength and elongation	BS EN ISO 1421:1998 BS EN 29073-3:1992 BS 2576:1986 (withdrawn) ISO 5081:1977 BS EN ISO 13934:Pt 1:1999 BS 6F 100:1998, Section 3.3	E
	Grab strength	ISO 5082:1982 (withdrawn) BS EN ISO 13934:Pt 2:1999	E
	Tear strength (Wing Rip)	BS EN ISO 4674-1:2003 BS 4303:1968 (withdrawn) BS EN ISO 13937:Part 3:2000 (electronic)	E
	Tear strength (Tongue Tear)	BS 6F 100:1998, Section 3.5.1 BS EN ISO 13937:Part 4:2000 (electronic)	E
Tear strength (Trousers Tear)	BS EN ISO 13937:Part 2:2000 (electronic)	E	
Seam tensile properties: Strip method Grab method	BS EN 13935:Part 1:1999 BS EN 13935:Part 2:1999	E	



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FIBRES, YARNS, FABRICS, COATED FABRICS, MADE-UP TEXTILES, LEATHER etc (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	Seam slippage	BS 3320:1988 (withdrawn) BS EN ISO 13936-1:2004 BS 2543:Annex A:1995 (withdrawn) BS EN ISO 13936-2:2004	E
	Bursting strength	BS 4768:1972 (withdrawn) BS EN ISO 13938:Part 1:1999	E
	Abrasion resistance	BS 5690:1991 (withdrawn) BS EN ISO 12947:Pts 1, 2, 3 and 4:1999 BS EN 14465:Annex A:2003	E
	Pilling	BS 5811:1986(withdrawn) BS EN ISO 12945:Pt 1:2001	E
	Stiffness	BS 3356:1990	E
FABRICS	<u>Physical Tests and related Opinions and Interpretations</u>		
	Drape	BS 5058:1973	E
	Crease recovery	BS EN 22313:1992	E
	Spray rating	BS EN 24920:1992	E
	Shower test	BS 5066:1974	E
	Limiting oxygen index	BS EN ISO 4589-2:1999	C
	Low temperature performance	BS 3424-8-Method 10A:1983	C
Oil repellency rating	AATCC 118:1997 BS EN ISO 14419:1999	C	
UPHOLSTERY	Specifications for upholstery fabrics	BS 2543:1995 (excludes soiling) (withdrawn) BS 2543:2004	E



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FIBRES, YARNS, FABRICS, COATED FABRICS, MADE-UP TEXTILES, LEATHER etc	<u>Stability Tests and related Opinions and Interpretations</u>		
	Method of preparation	BS EN ISO 3759:2011 BS 4931:1986 (withdrawn)	E
	Determination of dimensional change	BS EN 25077:1994 (withdrawn), BS EN ISO5077:2008	E
	Washing	BS 1955:1981 (withdrawn) BS EN 26330:1994(withdrawn) ISO 6330:1984 BS EN ISO 6330:2001	E
	Cold water immersion	BS 4736:1985 ISO 7771:1985 BS 6F 100:1998, Section 3.6	E
	Free steam	BS 4323:1979 ISO 3005:1978	E
PROTECTIVE CLOTHING FABRICS	Surface and interfacial tension of solutions of surface active agent	ASTM D 1331-89	C
	Resistance to penetration by synthetic blood	ASTM F 1670-07	C
	Resistance to blood borne pathogens using Phi-X174 bacteriophage penetration	ASTM F 1671-07	C
TEXTILE FLOORCOVERINGS	<u>Colour Fastness Tests and related Opinions and Interpretations</u>		
	Shampooing	BS 1006: UK-TB:1990	C & D
	Salt	BS 1006: UK-TI:1990	D
	Water	BS 1006: UK-TJ:1990	D



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FLEXIBLE SHEETS FOR WATERPROOFING	UV ageing/irradiation	BS EN 1297:2004 as modified by BS EN 13859-1:2010 (Annex C) and EN 13859-2:2010, Annex C BS EN ISO 4892-3:2006	C
TOYS	Physical and Mechanical (Soft filled toys only)	BS EN 71-1:2011 Clauses 4.1, 4.2, 4.3, 4.4, 4.5, 4.7, 4.8, 4.9, 4.12, 4.14.2, 4.22, 5.1, 5.2, 5.3, 5.4, 5.7, 5.9, 5.10, 6, 7 Test methods 8.2, 8.3, 8.4, 8.5, 8.7, 8.8, 8.10, 8.13, 8.20, 8.25, 8.32	E
	<u>Chemical Tests</u> Organic contaminants Colourants Flame retardants Primary Aromatic Amines (soft filled toys only)	BS EN 71-9:2005 + A1:2007 BS EN 71-10:2005 BS EN 71-11:2005	C
	Specification for migration of certain elements - toxicity	BS EN 71-3:1995	C
	Preparation of dried paint samples by hot plate or microwave digestion for subsequent lead analysis	In-House Method STL/SOP 005 based on ASTM E-1645-01(2007)	C
	Determination of total lead content	In-House Method STL/SOP 005 based on ASTM E-1613-04 to meet the requirements of 16 CFR 1303:2005  CPSC-CH-E1001-08 using ICP (AES)	C
PLASTICS - semi-crystalline polymer and textiles	Determination of melting behaviour - capillary tube method	BS EN ISO 3146:2000 EN ISO 3146:1997/ BS 2782:Pt 1:Method 25A:1991	C



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FABRICS	<u>Physical Tests and related Opinions and Interpretations</u>		
	<u>Textile Fabrics:</u>		
	Abrasion (Martindale)	BS 5690:1991(1997) (withdrawn) BS EN ISO 12947:Parts 1-4: 1999	A
	Bursting strength	ISO 2960:1974 (withdrawn) BS EN ISO 13938:Part 1:1999	A
	Dimensional stability (immersion in water)	BS 4736:1985(1996) ISO 7771:1985 BS 6F 100:1998, Section 3.6	A
	Dimensional stability (methods of preparation)	BS 4931:1986 (withdrawn) BS EN ISO 3759:1995 (withdrawn) BS EN ISO 3759:2008	A
	Dimensional stability (procedure and repeatability)	ISO 5077:1994 (withdrawn) BS EN 25077:1994 (withdrawn) BS EN ISO 5077:2008	A
	Dimensional stability (washing)	BS 4923:1980 (withdrawn) BS EN ISO 6330:2001 + A1:2009 BS EN 26330:1994 (withdrawn)	A
	Fabric width	BS 1930:1990 (withdrawn) BS EN 1773:1997	A
	Mass per unit area	BS 2471:1978(1997) BS EN 12127:1998 BS 6F 100:1998, Section 3.2	A
	Stiffness	BS 3356:1990	A
	Tear strength (BS 5F 100)	BS 6F 100:1998, Section 3.5	A
	Tear strength (Elmendorf)	ASTM D1424:2009 BS EN ISO 13937-1:2000	A
Tear strength (Trousers Tear)	BS EN ISO 13937:Part 2:2000 <sup>+</sup>	A	



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FABRICS (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	<u>Textile Fabrics:</u> (cont'd)		
	Tear strength (Tongue Tear)	BS EN ISO 13937:Part 4:2000 <sup>+</sup>	A
	Tear strength (Wing Rip)	BS 4303:1968(1995) (withdrawn) BS EN ISO 13937:Part 3:2000 <sup>+</sup>	A
		(*indicates electronic only)	
	Tensile strength and elongation	BS 2576:1986(1995) (withdrawn) BS 6F 100:1998, Section 3.3 ISO 5081:1977 (withdrawn) ISO 5082:1982 (withdrawn) BS EN ISO 13934:Part 1:1999 BS EN ISO 13934: 2:1999	A
	Thickness of fabric	BS 2544:1987 (withdrawn) BS EN ISO 5084:1997	A
	Washing and drying	BS 4923:1980 BS 5651:1989(1997) BS EN ISO 6330:2001 + A1:2009 BS EN 26330:1994(withdrawn) BS EN ISO 10528:1995 BS EN ISO 12138:1997	A
	<u>Woven Fabrics</u>		
	Construction	BS 2861:1984(1996)	A
Threads per unit length	BS 2862:1984(1990) (withdrawn) BS 6F 100:1998, Section 3.1 BS EN 1049:Part 2:1994	A	



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FABRICS (cont'd)	<u>Physical Tests and related Opinions and Interpretations (cont'd)</u>		
	<u>Non-Woven Fabrics</u>		
	Mass/unit area	ISO 9073-1:1989	A
	Thickness	ISO 9073-2:1995	A
	Tensile strength and elongation	ISO 9073-3:1989	A
	Tear resistance	ISO 9073-4:1997	A
PROTECTIVE CLOTHING	<u>Barrier Properties</u>		
	Air permeability	BS 5636:1990 (withdrawn) BS EN ISO 9237:1995	A
	Airborne linting propensity	BS 6909:1988(1994)	A
	Resistance of fabrics to an artificial shower	BS 5066:1974(1994)	A
	Resistance to water penetration (hydrostatic head) - textile fabrics	ISO 811:1981 BS EN 20811:1992(1996)	A
	Thermal resistance or conductivity	BS 4745:1990(1995) ISO 5085:Part 1:1989 BS 4745:2005:Procedure 10.2 and 10.3	A
	Spray rating	BS EN 24920:1992(1996) ISO 4920:1981	A
	Water repellency (Bundesmann)	BS Handbook 11:1974 BS 6F 100:1998, Section 3.8 BS 29865:1993 ISO 9865:1991	A
Measurement of water vapour permeability index	BS 7209:1990(1997): Appendix B	A	



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PROTECTIVE CLOTHING (cont'd)	<u>Barrier Properties</u> (cont'd)		
	UV radiation through clothing fabrics	BS 7914:1998 (withdrawn) AATCC 183:1998	A
	Solar UV protective properties	BS EN 13758:Part 1:2002 + A1:2006	A
	Sun protection clothing	AS/NZ 4399:1996	A
	<u>Coated Fabrics</u>	<u>BS 3424</u>	
	Conditioning	BS EN ISO 2231:1995 BS 3424:Part 2:1992	A
	Abrasion (Martindale)	BS 3424:Part 24:Method 27A Modes A and B, 1990	A
	Coating adhesion	BS EN ISO 2411:2000	A
	Coating Adhesion	BS 3424:Part 7:Method 9:1982 (1996) (withdrawn)	A
	Blocking test	ISO 5978:1990 BS 3424:Part 11:Method 13: 1982 BS EN 25978:1993	A
	Breaking load and extension	BS 3424:Part 4:Method 6:1982 (1996) (withdrawn) ISO 1421:1998	A
	Bursting strength	BS 3424:Part 6:Method 8:1982 (1996) (withdrawn) ISO 3303:1990	A
	Crumple flex	BS 3424:Part 9:Method 11C: 1996 BS EN ISO 7854:1997	A
	Flexing resistance (Schildknecht)	BS EN ISO 7854: Method B: 1997 BS 3424: Part 9:Method B 1996	A
Surface drag	BS 3424:Part 10:Method 12B:1987(1996)	A	



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PROTECTIVE CLOTHING (cont'd)	<u>Coated Fabrics</u> (cont'd)	<u>BS 3424</u> (cont'd)	
	Tear strength	BS 3424:Part 5:Method 7:1982 (1996) ISO 4674:1977 (withdrawn) BS EN ISO 4674:Part 2:1998 BS EN ISO 4674-1:2003	A
	Tear strength (Trousers Tear)	BS EN ISO 13937:Part 2:2000 (electronic only)	A
	Thickness	ISO 4648:1991 (withdrawn) BS ISO 23529:2010 ISO 2286:Part 3:1998 BS EN 22286:1994 (withdrawn) Federal Test Method Standard 191 Section 5030-2	A
	Width: mass and length	BS EN 22286:1994 (withdrawn)	A
	Width	BS EN ISO 2286:Part 1:1998	A
	Total mass/coating mass/substrate mass	BS EN ISO 2286:Part 2:1998	A
	Air permeability	BS 5636:1990 (withdrawn) BS EN ISO 9237:1995	A
	Resistance of fabrics to an artificial shower	BS 5066:1974(1993)	A
	Resistance to water penetration (hydrostatic head) - coated fabrics	BS 3424:Part 26:Methods 29A and 29C:1990	A
Thermal resistance or conductivity	BS 4745:1990(1995) (withdrawn) ISO 5085:Part 1:1989 BS 4745:2005:Procedure 10.2 and 10.3	A	
Spray rating	BS EN 24920:1992(1996) ISO 4920:1981	A	



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PROTECTIVE CLOTHING (cont'd)	<u>Coated Fabrics</u> (cont'd)	<u>BS 3424</u> (cont'd)	
	Water repellency (Bundesmann)	BS Handbook 11:1974 BS 6F 100:1998, Section 3.8 BS EN 29865:1993 ISO 9865:1991	A
	Measurement of water vapour permeability index	BS 7209:1990(1997): Appendix B BS 3424:Part 34:Method 37: 1992	A
	<u>Physical Tests and related Opinions and Interpretations</u>		
	Abrasion (Martindale)	BS 5690:1991(1997) (withdrawn) BS EN ISO 12947:Parts 1-4: 1999	A
	Bursting strength	BS 4768:1972(1997) (withdrawn) BS EN ISO 13938:Part 1:1999	A
	Dimensional stability (dry heat)	BS 1771:Part 2:1984 (withdrawn)	A
	Dimensional stability (immersion in water)	BS 4736:1985(1996) BS 6F 100:1998, Section 3.6	A
	Dimensional stability (methods of preparation)	BS 4931:1986 (withdrawn) BS EN ISO 3759:1995 (withdrawn) BS EN ISO 3759: 2008	A
	Dimensional stability (procedure and repeatability)	BS 5807:1987 (withdrawn) BS EN 25077:1994 (withdrawn) BS EN ISO 5077:2008 ISO 5077:1994 (withdrawn)	A
Dimensional stability (washing)	BS 4923:1980 (withdrawn) BS EN ISO 6330:2001+A1:2009 BS EN 26330:1994 (withdrawn)		
Mass per unit area	BS 2471:1978(1997) BS 6F 100:1998, Section 3.2	A	



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PROTECTIVE CLOTHING (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	Stiffness	BS 3356:1990	A
	Tear strength	BS 6F 100:1998, Section 3.5	A
	Tear strength (Elmendorf)	ASTM D1424:2009 BS EN ISO 13937-1:2000	A
	Tear strength (Trouser Tear)	BS EN ISO 13937:Part 2:2000 <sup>+</sup>	A
	Tear strength (Tongue Tear)	BS EN ISO 13937:Part 4:2000 <sup>+</sup>	A
	Tear strength (Wing Rip)	BS 4303:1968(1995) (withdrawn) BS EN ISO 13937:Part 3:2000 <sup>+</sup>	A
	Tensile strength and elongation	BS 2576:1986(1995) (withdrawn) BS 6F 100:1998, Section 3.3 ISO 5081:1977 (withdrawn) ISO 5082:1982 (withdrawn) BS EN ISO 13935:Part 1; 1999 BS EN ISO 13935: Part 2:1999	A
	Thickness of fabric	BS 2544:1987 (withdrawn) BS EN ISO 5084:1997  (* indicates electronic only)	
	<u>Woven Fabrics</u>		
	Construction	BS 2861:1984(1996)	A
	Threads per unit length in woven fabric	BS 2862:1984(1990) (withdrawn) BS 6F 100:1998, Section 3.1 BS EN 1049:Part 2:1994	A
	Air permeability	BS 5636:1990 (withdrawn) BS EN ISO 9237: 1995	A
Resistance of fabrics to an artificial shower	BS 5066:1974(1993)	A	



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PROTECTIVE CLOTHING (cont'd)	<u>Woven Fabrics</u> (cont'd)		
	Resistance to water penetration (hydrostatic head) - textile fabrics	BS EN 20811:1992(1996) ISO 811:1981	A
	Spray rating	BS EN 24920:1992(1996) ISO 4920:1981	A
	Water repellency (Bundesmann)	BS Handbook 11:1974 BS 6F 100:1998, Section 3.8 BS EN 29865:1993 ISO 9865:1991	A
	Measurement of water vapour permeability index	BS 7209:1990(1997): Appendix B BS 3424:Part 34:Method 37	A
	Sun protection clothing	AS/NZS 4399:1996	A
	Children's Clothing - Requirements for protection against UV radiation	BS 7949:1999 (withdrawn) BS EN 13758-2:2003	A
	Thermal and water vapour resistance	BS EN 31092:1994 ISO 11092:1993	A
	Abrasion resistance	BS EN 530:1995 BS EN 530:2010	A
	Requirements for protective clothing against foul weather	BS EN 343:2003+A1:2007	A
	<u>High Visibility Warning Clothing</u>		
	Design/background area	Shirley Method 134:1998	A
Chromaticity background material	BS EN 471:1994(2003) + A1 2007 BS EN 1150:1999 Railway Group Standard, GO/RT 3279:2008	A	
Puncture resistance	BS EN 863:1996	A	



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PROTECTIVE CLOTHING (cont'd)	<u>High Visibility Warning Clothing</u> (cont'd)  Thickness	BS ISO 23529: 2010 ISO 4648:1991 (withdrawn) BS EN ISO 2286-3:1998 BS EN 22286:1994 (withdrawn) Federal Test Method Standard 191 Section 5030-2	A
GLOVES	Gloved finger dexterity	EN 420:1994 (withdrawn) EN 420:2003 +A1 2009	A
	<u>Mechanical Risk</u>  Puncture resistance	BS EN 388:1994 BS EN 388:2003 DIN 4841:Part 1:1981	A
	Tear resistance	BS EN 388:2003	A
	Thickness	ISO 4648:1991 (withdrawn) BS EN ISO 2286-3:1998 FTMS Standard 191 Section 5030-2	A
GEOTEXTILES AND GEOTEXTILE RELATED PRODUCTS	<u>Physical Tests and related Opinions and Interpretations</u>  <u>Geotextiles and Related Products</u>		
	Breaking load and extension (grab method)	ASTM D4632-08	A
	Water-flow, normal to the plane	BS EN ISO 11058:2010	A
	In-plane water flow capacity	BS 6906:Part 7:1990(1995) (withdrawn) BS EN ISO 12958:2010	A



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GEOTEXTILES AND GEOTEXTILE RELATED PRODUCTS (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	<u>Geotextiles and related products</u> (cont'd)		
	Mass per unit area	BS EN 965:1995 (superseded) ASTM D5261-92(2010) BS EN ISO 9864:2005	A
	Puncture resistance (CBR puncture test)	BS 6906:Part 4:1989 (withdrawn) DIN 54307:1982 BS EN ISO 12236:2006 ASTM D6241-04 (2009)	A
	Resistance to penetration by Water	BS EN 13562:2000	
	Resistance to perforation (cone drop test)	BS 6906:Part 6:1990 (withdrawn) BS EN 918:1996 (superseded withdrawn) BS EN ISO 13433:2006	A
	Index puncture resistance	ASTM D4833-07	A
	Short term compression	ASTM D1621-10 BS EN ISO 25619-2:2008	A
	Sampling and preparation of test specimens	BS EN 963:1995 BS EN ISO 9862:2005	A
	Tensile properties using a wide width strip	ASTM D4595-2009 BS 6906:Part 1:1987(1995)	A
	Wide-width tensile test	BS EN ISO 10319:2008	A
	Tensile test for joints/seams by wide-width method	BS EN ISO 10321:2008	A
	Peel strength (geocomposites)	ASTM D4632-08(mod)	A
Strength of internal structural junctions	BS EN ISO 13426-2:2005	A	



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GEOTEXTILES AND GEOTEXTILE RELATED PRODUCTS (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	<u>Geotextiles and related products</u> (cont'd)		
	Thickness at specified pressures	ISO 9863:Part 2:1996 BS EN 964-1:1995 (superseded) ASTM D5199:2001(2006) BS EN ISO 9863-1:2005	A
	Trapezoid tear strength	ASTM D4533-04 (2009)	A
	Abrasion damage simulation	BS EN ISO 13427:1998	A
	Water flow normal to the plane of a geotextile under a constant head	BS 6906:Part 3:1989(1995) (withdrawn)	A
	Pore/Opening size by dry sieving	BS 6906:Part 2:1989(1995) (withdrawn)	A
	by wet sieving	BS EN ISO 12956:2010	A
	Methodology for cylinder testing of protectors for geomembranes	Environment Agency - April 2006 Environment Agency 2010	A
	Determination of long term protection efficiency of geotextiles in contact with geosynthetic barriers	EN ISO 13719:2002	A
	General tests for evaluation following durability testing	EN 12226:2000	A
Resistance to acid and alkaline liquids (Screening method)	EN 14030:2001	A	
Resistance to oxidation (Screening methods)	EN ISO 13438:2004 Methods A1, A2, B1 & B2	A	
Microbiological resistance by soil burial	EN 12225:2000	A	



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GEOTEXTILES AND GEOTEXTILE RELATED PRODUCTS (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	<u>Geotextiles and related products</u> (cont'd)		
	Determination of the resistance to weathering	BS EN 12224:2000	A
	Screening for determining the resistance by hydrolysis in water	BS EN 12447:2001	A
GEOMEMBRANES	<u>Physical Tests and related Opinions and Interpretations</u>		
	<u>Oxidative Induction Time</u> - range 0 to 200 minutes	ASTM D3895-07 using Differential Scanning Calorimeter	A
	Melt flow rate of thermoplastics by extrusion plastomer	ASTM D1238-2010	A
	Tensile properties of plastics	ANSI/NSF Modification Standard 54:1993 - Annex A, Part 8, using Type 4 Die based on ASTM D638:1996	A
		ASTM D6693-04 (2010) EN ISO 527-1:1996 EN ISO 527-3:1995(1998)	A
	Determination of 2% secant modulus for polyethylene geomembranes	ASTM D5323-06	A
	Initial tear resistance of plastic film and sheeting	ASTM D1004-09	A
Density of plastics	ASTM D1505-10	A	



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GEOMEMBRANES (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	Thickness of Geomembranes	ANSI/NSF Modification Standard 54:1993, Annex A, Part 1, based on ASTM D751-06 ASTM D5199:2001(2006) ASTM D1593-09 ASTM D5994-2010	A
	Thickness	BS EN 964-1:1995 (superseded)	A
	Asperity Measurement	GRI GM12 ASTM D7466-2010	A
	Carbon black content	ASTM D1603-06	A
	Carbon black dispersion	ASTM D5596-03 (2009)	A
	Puncture resistance	Federal Test Method Standard 101C, Method 2065:1982	A
	Puncture resistance (CBR puncture test)	BS 6906:Part 4:1989 (withdrawn) BS EN ISO 12236:2006 DIN 54307:1982 ASTM D6241-04 (2009)	A
	Index puncture resistance	ASTM D4833-07	A
	Peel and shear strength of bonded seams	ANSI/NSF Modification Standard 54: 1993, Appendix A, Part 3 and Part 5, based on ASTM D413:1982(1993) and ASTM D4437-99 ASTM D6392-08	A
	Stress cracking using notched constant tensile load	ASTM D5397-07 BS EN 14576:2005	A
Dimensional stability	ASTM D1204-08	A	
Water absorption	ASTM D570:1998(2010)	A	



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GEOMEMBRANES (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)  Methodology for cylinder testing of protectors for geomembranes	Environment Agency - April 2006 Environment Agency 2010	A
BENTONITE CLAY	<u>Physical Tests and related Opinions and Interpretations</u>  Confined swell  Swell Index of Clay  Montmorillonite content (Methylene blue capacity)  Water absorption of bentonite	GRI Test Method GCL-1  STS Method 130:1995 ASTM D5890-06  STS Method 131:1995  ASTM E946:1992	A  A A  A  A
GEOSYNTHETIC CLAY LINERS	<u>Physical Tests and related Opinions and Interpretations</u>  Mass per unit area (GCL)  Puncture resistance (CBR puncture test)  Breaking load and extension (grab method)  Moisture content (GCL)	ISO 9864:1990 ASTM D5993-99(2009) BS EN 965:1995 (superseded) ASTM D5261-2010 BS EN 14196:2003  BS 6906:Part 4:1989 (withdrawn) BS EN ISO 12236:2006 DIN 54307:1982 ASTM D6241-04 (2009)  ASTM D4632-08  ASTM D2216-2010	A  A  A  A



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GEOSYNTHETIC CLAY LINERS (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	Tensile properties using a wide width strip	ASTM D4595-2009 BS EN ISO 10319:2008 BS 6906:Part 1:1987(1995) (withdrawn)	A
	Tensile strength	ASTM D6768-04 (2009)	A
	Thickness at specified pressures	ISO 9863:Part 2:1996 BS EN 964-1:1995 (superseded) ASTM D5199:2001(2006)	A
	Peel strength	ASTM D4632-08 (mod) ASTM D413:1982(1993) ASTM D6496-2009	A
	Strength of internal structural junctions	BS EN ISO 13426-2:2005	A
	Index puncture resistance	ASTM D4833-07	A
	Index flux	ASTM D5887-09	A
Hydraulic conductivity	ASTM D5084-03 (GR1 GCL2)	A	
FLEXIBLE SHEETS FOR WATER PROOFING	<u>Physical Tests and related Opinions and Interpretations</u>		
	Thickness	BS EN 1849-2:2009	A
	Mass per unit area	BS EN 1849-2:2009	A
	Watertightness	BS EN 1928:2000, Method A BS EN 1928:2000, Method A modified by EN 13859-1:2010 EN 13859-2:2010	A
Resistance to water penetration	BS EN 13111:2010	A	



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FLEXIBLE SHEETS FOR WATER PROOFING (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	Tensile properties	BS EN 12311-1:2000 BS EN 12311-1:2000 modified by EN 13859-1:2010 and EN 13859-2:2010	A
	Dimensional stability	BS EN 1107-2:2001	A
	Tear resistance (nail shank)	BS EN 12310-1:2000 BS EN 12310-1:2000 modified by EN 13859-1:2010 and EN 13859-2:2010	A
	Artificial ageing (elevated temperature)	BS EN 1296:2001 BS EN 1296:2001 modified by EN 13859-1:2010 and EN 13859-2:2010	A
	Water vapour transmission	BS EN 1931:2000 BS EN ISO 12572:2001 BS 3177:1959	A
LEATHER	<u>Physical Tests and related Opinions and Interpretations</u>		
	<u>Barrier Properties</u> Measurement of water vapour permeability index	BS 7209:1990(1997), Appendix B	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FABRICS:	<u>Fire Testing and related Opinions and Interpretations</u>		
Flammability and related Opinions and Interpretations	BS 5438:1976 (2008) BS 5438:1989 (2008) BS EN 532:1995 (withdrawn) BS EN ISO 6940:1995 (withdrawn) BS EN ISO 6940:2004 (2007) BS EN ISO 6941:1995 (withdrawn) BS EN ISO 6941:2003	B	
for curtains and drapes	BS 5867:Part 2:1980 (withdrawn) BS 5867:Part 2:2008	B	
for protection against heat and flame	BS EN 1101:1996 BS EN 1102:1996 BS 6249:Part 1:1982 (withdrawn) BS EN 533:1997 (withdrawn) BS EN ISO 14116:2008 BS ISO 15025:2000 (withdrawn) BS EN ISO 15025:2002	B	
Fabrics for Apparel	BS EN 1103:1996 (withdrawn) BS EN 1103:2005	B	
TEXTILES USED in the CONSTRUCTION of MARQUEES and SIMILAR TEXTILE STRUCTURES	Flammability and related Opinions and Interpretations	BS 7837:1996 (2008)	B
PROTECTIVE CLOTHING and GLOVES	Burning behaviour	BS EN 407:1994, Clause 6.3 (withdrawn) BS EN 407:2004, Clause 6.3	B
	Heat transfer (radiation)	BS EN 366:1993 (withdrawn) ISO 6942:1993 (withdrawn) BS EN ISO 6942:2002	B
	Heat transfer (flame)	BS EN 367:1992 ISO 9151:1995	B



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PROTECTIVE CLOTHING and GLOVES (cont'd)	Heat transfer (contact heat)	BS EN 702:1995 (2007) ISO 12127:1996 (withdrawn)	B
	Molten metal splash	BS EN 373:1993 (withdrawn) ISO 9185:1990 (withdrawn) BS EN ISO 9185:2007	B
	Small splashes of molten metal	BS EN 348:1992 ISO 9150:1988	B
	Heat resistance	BS EN 469:1995, Annex A (withdrawn) BS EN 659:1996, Annex A (withdrawn) BS ISO 17493:2000	B
	Protection against liquid chemicals	BS EN 368:1993 (withdrawn) BS EN ISO 6530: 2005 ISO 6530:1990 (withdrawn)	B
	Mechanical Risk Test (for automobile drivers)	FIA Standard No 8856:2000 Appendix II	B
	Oven Gloves	BS 6526:1998 (2007)	B
TEXTILES	Dimensional change	BS EN 25077:1994 ISO 5077:1984 (withdrawn) ISO 3759:1984 (withdrawn) ISO 3759: 2007 BS EN ISO 5077:2008	B
	Washing	BS 5651:1989 (2008) BS EN ISO 10528:1995 BS EN 26330:1994 (withdrawn) ISO 6330:1984 (withdrawn) BS EN ISO 6330:2001	B
	Water soak prior to flammability testing	BS 5651:1989 Clause 3 BS EN 1021-1/2:2006 Annex D	B
FABRICS and MADE-UP TEXTILES	<u>Electrostatic Tests and related Opinions and Interpretations</u>		
	Surface resistivity	BS 6524:1984(1995)	D



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PROTECTIVE CLOTHING	<u>Electrostatic properties</u>		
	Surface resistivity Electrical resistance through material	BS EN 1149:Part 1:1996 BS EN 1149:Part 2:1997	D
	Charge decay	BS EN 1149:Part 3:2004	D
	Design Requirements	BS EN 1149:Part 5:2008	D
TEXTILE FLOOR COVERINGS, UNDERLAYS AND BACKINGS	<u>Physical Tests and related Opinions and Interpretations</u>		
	Carpet Construction	BS 4051:1987(1996) ISO 1765:1986 (2006) BS 4223:1989(2009) BS ISO 1766:1999(2005) ISO 1763:1986 (2006) BS ISO 8543:1998 (2005) BS EN ISO 845:1988	D
	Static loading	BS 4939:1987(1996) ISO 3416:1986	D
	Dynamic loading	BS ISO 2094:1999	D
	Thickness, compression and recovery	BS 4098:1975(1996)	D
	Tuft withdrawal	BS 5229:1975(2009) WNZ TM 202:1994	D
	Fibre Integrity test	WNZ TM 283:1997	D
	Pilling (Martindale)	Documented In-House Method (E2-14)	D
	Fibre shedding	Documented In-House Method (E2-15)	D
Lisson tretrad	BS EN 1963:2007	D	



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TEXTILE FLOOR COVERINGS, UNDERLAYS AND BACKINGS (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	<u>Appearance Retention:</u>		
	Tumbler test - Hexapod  - Vetterman	BS 659:Part2:1986(Withdrawn) ISO 10361:2000 WNZ TM 247:1997 BS EN ISO 11378:Part 2:2001 BS ISO 10361:2000	D
	Castor chair	BS EN 985:2001	D
	Edge frying (Vetterman) Assessment	BS EN 1814:1998 BS EN 1471:1997 BS 6659:Part 1:1986 (withdrawn) ISO 9405:2001 (2007) WNZ TM 251:1997	
	Size and squareness of carpet tiles	BS 5921:1980(2009)	D
	Side length, squareness and straightness of tiles	BS EN 994:1996 (2007)	D
	<u>Dimensional Stability:</u>		
	Heat	BS 4682:Part 3:1981(1996)	D
	Water	BS 4682:Part 4:1981(1996)	D
	Heat and/or water	BS ISO/PAS 17984:2001(2007)	D
	Heat/Water (Aachen)	ISO 2551:1981(2005)	D
	Heat/Water (Carpet Tiles)	BS EN 986:2005	D
	Heat (resilient Floor Coverings)	BS EN 434:1994 (2000)	D
Tensile strength	BS 2576:1986 (withdrawn) BS EN ISO 13934-1:1999	D	
Delamination	BS ISO 11857:2002 (2007)	D	



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TEXTILE FLOOR COVERINGS, UNDERLAYS AND BACKINGS (cont'd)	<u>Dimensional Stability:</u> (cont'd)		
	Mass of use surface	BS EN 984:2001	D
	Classification of needled floor coverings	BS EN 1470:1998	D
	Classification of pile carpets	BS EN 1307:2008	D
	Classification of flat wovens	BS EN 15114:2006	D
	Classification of needled floor coverings (without pile)	BS EN 1470:2008	D
	Classification of needled pile floor coverings	BS EN 13297:2007	D
	Classification of underlays	BS 5808:1991(2005)	D
TEXTILE FLOOR COVERINGS & CONSTRUCTION PRODUCTS	<u>Electrostatic Tests and related Opinions and Interpretations</u>		
	Electrical resistance	BS 6654:1985(2009) IBM Electrostatic Tests:1974 ICL Electrostatic Tests:1980 BS ISO 10965:1998	D
	Body voltage	ISO 6356:2000 (2005) BS EN 1815:1998	D
TEXTILE FLOOR COVERINGS & CONSTRUCTION PRODUCTS	<u>Flammability Tests and related Opinions and Interpretations</u>		
	Ignitability and burning behaviour	BS 6307:1982(2003)/ ISO 6925:1982 BS 4790:1987(2009) BS 5287:1988 (2009)	D
	Fire propagation and flame spread	ASNI/ASTM E648:2008	D



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FLOOR COVERINGS	<u>Fire Testing and related Opinions and Interpretations</u>		
	Classification	BS EN 13501:Part 1:2007	D
	Flame spread	BS EN ISO 9239:Part 1:2002	D
	Direct impingement - single flame source	BS EN ISO 11925:Part 2:2002	D
	Non combustibility	BS EN ISO 1182:2002	D
	Single burn item	BS EN 13823:2002	D
	Fire propagation	BS 476:Part 6:1989	D
	Flame spread	BS 476:Part 7:1987	D
TEXTILE FABRICS and FABRIC ASSEMBLIES	Water soak, washing, dry cleaning, etc	BS 5651:1978 BS 5651:1989(2002) BS EN ISO 10528:1995	D
UPHOLSTERED FURNITURE	<u>Fire Tests and related Opinions and Interpretations</u>		
	Ignitability and burning behaviour (including water soaking pre-treatments)	BS EN 1021-1:2006 BS EN 1021-2:2006 BS 7176:2007 BS 5852:2006 BS 5852:Part 1:1979 BS 5852:Part 2:1982	D
FABRICS	<u>Fire Tests and related Opinions and Interpretations</u>		
	Ignitability, flame spread	BS 5438:1976 (Amd 1981) Test 2 BS 5438:1989 (Amd 1990/1994) (1997) Test 2 BS EN ISO 6940:1995	D
	Curtains and Drapes	BS 5867:Part 2:2008 BS EN ISO 15025:2002	D



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Accredited to  
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**BTTG Ltd**

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**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BEDDING and BEDDING COMPOSITES	<u>Fire Tests and related Opinions and Interpretations</u>		
	Ignitability and burning behaviour	BS 6807:2006	D
	Ignitability of bed bases, etc	BS EN 597:Parts 1 and 2:1995	D
	Resistance to ignition	BS 7177: 2008 BS 7175:1989(1994)	D
MARINE & AIRCRAFT	<u>Fire Tests and related Opinions and Interpretations</u>		
	Ignitability and burning behaviour	IMO Resolution A652 (16):1989 (1998)	D
	Ignitability, flame spread	IMO Resolution A471 (XII) 1981(1998)	D
	Resistance to ignition	IMO Resolution 688 (17)	D
	Lateral flame spread	IMO Resolution A653(16)	D
	Burning behaviour aircraft components	EASA C5.25.853 FAR/JAR 25 App F Part I (4) (16):1993(1998) Part II 1986(1998)	D
TOYS	Fire testing (Soft filled toys only)	BS EN 71-2:2006 + A1:2007	D
FABRICS FOR CAMPING TENTS	<u>Fire Tests and related Opinions and Interpretations</u>		
	Flammability	BS 7837:1996(2002)	D
END			