

# ILIV

— CONTRACT TEXTILES —

## Q2099

### FIRE RATING CERTIFICATIONS

- EN 1021 1-2 Cig & Match
- BS 7176 - Medium Hazard
- BS 5852 Source 5
- IMO 8

Our Ref: SW/PN/RM

04 July 2018

**Report 324037**

**Page 1 of 3**

SMD Contracts Limited  
Unit F2 Pittman Way  
Fulwood  
Preston  
PR2 9ZD

Contact: Katie Hamblett

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DATE RECEIVED	:	20 JUNE 2018
QUALITY REFERENCE	:	Q2099 PRINT
REPUTED FIBRE CONTENT	:	NOT GIVEN
FABRIC DESCRIPTION	:	WOVEN
COLOUR/DESIGN	:	RED CHECK
END USE	:	UPHOLSTERY
ORDER NUMBER	:	CONTRACTS 48

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REQUEST: BS7176:2007 + A1:2011 Specification for resistance to ignition of upholstered furniture for non-domestic seating by testing composites – Table 1: Medium Hazard Use

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COMMENTS: Meets the flammability performance requirements of BS7176:2007 + A1:2011 Table 1 for Medium Hazard Use

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**S. WISEMAN**  
**LABORATORY DIRECTOR**



**P. NEESAM**  
**HEAD OF FLAMMABILITY**

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**BS 7176:2007 + A1:2011 Specification for resistance to ignition of upholstered furniture for non-domestic seating by testing composites**

BS7176:2007 +A1:2011 specifies flammability performance requirements for composites comprising cover fabric and filling material(s) and includes additional requirements in clause 4.1.2 relating to the flammability behaviour of the filling materials used. The filling materials which will be used in the final article are not always known to the fabric supplier and therefore nominal filling materials are used for the purpose of testing which may not necessarily represent the final composite. All filling materials supplied by HSTTS for the purpose of testing cover fabrics comply with the relevant requirements of clause 4.1.2.

Clause 4.1.1 requires that testing is carried out in accordance with the frequency stated in clause 5. No information was provided by the client regarding the lot size or frequency of testing.

According to Table 1, composites for Medium Hazard end-use shall meet the requirements of BSEN 1021-1:2006 (cigarette ignition source), BSEN 1021-2:2006 (match-equivalent flame) and BS 5852:2006 Clause 11 (ignition source crib 5).

**Pre-treatment:**

In accordance with clause 4.2, all fabrics which have been chemically treated to reduce their ignitability are subjected to the water soaking and drying procedures specified in BS 5852:2006 Annex E prior to being conditioned. Such pre-treatment is not necessary for materials which are formulated to be or are inherently flame-retarded.

Pre-treatment applied: Water soaking (BS5852:2006 Annex E)

**Conditioning**

After any pre-treatment given but prior to testing, the test specimens of fabric, Ref: Q2099 Print were subjected to conditioning for at least 72 hours in ambient indoor conditions followed by a minimum of 24 hours at a temperature of (23± 2°C) and relative humidity of (50±5%).

**Test results**

The following test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use. They also only relate to the materials tested. They do not guarantee to represent the performance of production materials.

Filling material used: Combustion modified high resilience foam of approximately 36 kg/m<sup>3</sup> was used.

- (i) BS EN 1021-1:2006 Furniture - Assessment of the ignitability of upholstered furniture – Part I.  
Ignition Source: Smouldering cigarette.

<u>Test</u>	<u>Observations</u>	<u>Outcome</u>
1	No flaming or progressive smouldering observed	Pass
2	No flaming or progressive smouldering observed	Pass

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- (ii) BS EN 1021-2:2006 Furniture - Assessment of the ignitability of upholstered furniture – Part 2. Ignition Source Match flame equivalent.

Duration of flame application: 15 seconds

<u>Test</u>	<u>Observations</u>	<u>Outcome</u>
1	Duration of flaming: 1 secs No progressive smouldering observed	Pass
2	Duration of flaming: 1 secs No progressive smouldering observed	Pass
3	Duration of flaming: 1 secs No progressive smouldering observed	Pass

- (iii) BS 5852:2006. Methods of Test for the Assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources.

Tests were made using ignition source 5.

The following test results relate only to the ignitability of the combination of upholstery composites (BS5852: 2006, Clause 11) under the particular conditions of test stated; they are not intended as a means of assessing the full potential fire hazard of the materials in use. They also only relate to the materials tested. They do not guarantee to represent the performance of production materials.

<u>Test</u>	<u>Observations</u>	<u>Outcome</u>
1	No progressive smouldering observed Duration of flaming: 4.25 mins/secs	Pass
2	No progressive smouldering observed Duration of flaming: 5.12 mins/secs	Pass

**Comments**

When tested as described above the sample is assessed as meeting the flammability performance requirements of BS7176:2007 + A1:2011 Table 1 for Medium Hazard end-uses.

## Test Certificate 88453 - 1

### Report Details

Report Number	88453 - 1	Date Tested	23-Mar-21	Date Issued	23-Mar-21
Service Requested	BS 5852 Part 1: 1979 - Schedule 4 Part 1 & Schedule 5 Part 1 + Water Soak				

### Customer Details

Company Name	SMD CONTRACTS	Company Address	UNIT F2; PITTMAN WAY
Customer Contact	EMMA LOCKWOOD		FULWOOD
Customer Ref/PO			LANCASHIRE
			PR2 9ZD

### Customer Details - As Supplied by the Customer

Sample Description	LANGHOLM CHARCOAL
Fibre Composition	MICROPOROUS COATED POLYESTER

### Quality/Batch Ref

Colour	CHARCOAL
Sample End Use	DOMESTIC CARAVANS (SWIFT)
Model Ref	

### Manufacturer

Supplier / Buyer SMD

### Specification:

Schedule 4 Part 1 (The Cigarette test) and Schedule 5 Part 1 (The Match test) of The Furniture Furnishings (Fire) (Safety) Regulations 1988 (as amended). S.I. 1324.

### Test Methods:

BS 5852 Part 1: 1979 – Methods of test for the ignitability by smokers' materials of upholstered composites for seating.

### Conditioning:

The sample was conditioned for 72 hrs in ambient conditions then for at least 24 hrs in a specified atmosphere at  $20 \pm 5^{\circ}\text{C}$  and  $50 \pm 20\%$  relative humidity.

### Pre-Treatment:

Water soak procedure in accordance with BS 5651: 1978 – Clause 4 (as amended by The Furniture and Furnishings (Fire) (Safety) Regulations 1988

Please note: The uncertainty of measurement is taken into account when stating conformance to the specification. The measured value(s) marked\* are compared with the 'acceptance interval' which is determined by reducing the specification limits by the expanded test uncertainty  $U_{k=2}$  (approximately 95% confidence interval). Results outside these limits are declared as 'fail'. All test results issued on this certificate refer only to the item under test as supplied by the customer. This test certificate shall not be duplicated.

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## Test Certificate 88453 - 1

### Test Results

The Following test results relate only to the ignitibility of the combination of the materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

Test Type	Schedule 4 Part 1	Initial Test	Repeat Test
Filling Material Used:		VP45 20-22Kg/m <sup>3</sup>	VP45 20-22Kg/m <sup>3</sup>
Smouldering Duration [mm:ss]:		<60.0	<60.0
Progressive smouldering and/or flaming observed within one hour of the placement of the cigarette:		<input type="checkbox"/>	<input type="checkbox"/>
Evidence of melting:		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Evidence of charring:		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Evidence of dripping:		<input type="checkbox"/>	<input type="checkbox"/>
Cover Split		<input type="checkbox"/>	<input type="checkbox"/>
Forcibly Extinguished		<input type="checkbox"/>	<input type="checkbox"/>
Test Result		PASS	PASS

Test Type	Schedule 5 Part 1	Initial Test	Repeat Test
Filling Material Used:		VP45 20-22Kg/m <sup>3</sup>	VP45 20-22Kg/m <sup>3</sup>
Smouldering / Flaming / Glowing Duration [mm:ss]:		0.01	0.02
Progressive smouldering observed within one hour after the removal of the flame:		<input type="checkbox"/>	<input type="checkbox"/>
Evidence of melting:		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Evidence of charring:		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Evidence of dripping:		<input type="checkbox"/>	<input type="checkbox"/>
Flaming continued for more then 120 seconds after the removal of the burner:		<input type="checkbox"/>	<input type="checkbox"/>
Forcibly Extinguished		<input type="checkbox"/>	<input type="checkbox"/>
Test Result		PASS	PASS

Please note: The uncertainty of measurement is taken into account when stating conformance to the specification. The measured value(s) marked\* are compared with the 'acceptance interval' which is determined by reducing the specification limits by the expanded test uncertainty Uk=2 (approximately 95% confidence interval). Results outside these limits are declared as 'fail'. All test results issued on this certificate refer only to the item under test as supplied by the customer. This test certificate shall not be duplicated.

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**Overall Result: PASS**

The sample supplied meets the UK Furniture and Furnishing (Fire)(Safety) Regulations 1988 (amended 1989, 1993, 2010) S.I.1324

Authorised Signature:



**Zeb Alam**

Operations Director

**END OF REPORT**

Please note: The uncertainty of measurement is taken into account when stating conformance to the specification. The measured value(s) marked\* are compared with the 'acceptance interval' which is determined by reducing the specification limits by the expanded test uncertainty  $U_k=2$  (approximately 95% confidence interval). Results outside these limits are declared as 'fail'. All test results issued on this certificate refer only to the item under test as supplied by the customer. This test certificate shall not be duplicated.

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## FLAMMABILITY TEST CERTIFICATE - 87482

**COMPANY DETAILS:** SMD CONTRACTS  
SMD GROUP LTD, UNIT F2, PITTMAN WAY, FULWOOD,  
PRESTON, PR2 9ZD

**CONTACT NAME(S):** EMMA LOCKWOOD  
**TEL:** 01772 651199  
**EMAIL:** [emma\\_lockwood@smdtextiles.co.uk](mailto:emma_lockwood@smdtextiles.co.uk),  
[Sarah\\_west@smd-textiles.co.uk](mailto:Sarah_west@smd-textiles.co.uk)

**DATE RECEIVED:** 05/02/2021  
**DATE TESTED:** 12/02/2021  
**DATE ISSUED:** 12/02/2021  
**PO NUMBER:** NOT STATED

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**SAMPLE DESCRIPTION:** Q2099  
**COLOUR:** NOT STATED  
**MODEL REF:** NOT STATED  
**QUALITY/BATCH REF:** NOT STATED  
**COMPOSITION:** MICROPOROUS COATED POLYESTER  
**WEAVE TYPE:** NOT STATED  
**FURNITURE TYPE:** CONTRACT UPHOLSTERY  
**YARN COUNT:** NOT STATED  
**THREADS PER INCH:** WARP: NOT STATED WEFT: NOT STATED  
**FABRIC THICKNESS:** NOT STATED  
**MASS PER UNIT AREA:** NOT STATED  
**FR TREATMENT:** FABRIC: NOT STATED  
**MANUFACTURER:** FABRIC: NOT STATED  
**SUPPLIER:** FABRIC: SMD CONTRACTS  
**FILLING DENSITY KG/M<sup>3</sup>:** 20-22KG/M<sup>3</sup>

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### SPECIFICATION/REQUIREMENT:

IMO FTP Part 8 – Fire test procedures for the ignitability by smokers' materials of upholstered composites for seating.

### CONDITIONING:

The sample was conditioned for 72 hrs in ambient conditions then for at least 24 hrs in a specified atmosphere at 23 ± 2°C and 50 ± 5% r h.

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Authorised By:



Zeb Alam  
Operations Director

Mark Jones  
Quality Manager

Karen Brooks  
Managing Director



## FLAMMABILITY TEST CERTIFICATE - 87482

### CIGARETTE SPECIFICATION:

Diameter: 8mm Ø

Length: 70mm

Mass: 1.0g

Smouldering Rate: 12 min/50mm

### TEST RESULTS:

“The Following test results relate only to the behaviour of the test specimens of a product under particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use”

TEST CRITERIA – (CIGARETTE TEST)	INITIAL TEST	REPEAT TEST
FILLING MATERIAL USED:	VP45	VP45
Smouldering Ceased	<60.00	<60.00
<b>PROGRESSIVE SMOULDERING CRITERIA</b>		
Progressive smouldering and/or flaming observed within one hour of the placement of the cigarette?	NO	NO
Evidence of melting, charring, dripping?	Melting: <input checked="" type="checkbox"/> Charring: <input checked="" type="checkbox"/> Dripping: <input type="checkbox"/>	
<b>FLAMING CRITERIA (9.3)</b>		
Cover Split?	NO	NO
Extent of Damage from source of ignition (mm)	70 X 5	65 x 5
TEST RESULT	PASS	PASS

TEST CRITERIA – (MATCH TEST)	INITIAL TEST	REPEAT TEST
FILLING MATERIAL USED:	VP45	VP45
Flaming duration:	0.01	0.01
<b>PROGRESSIVE SMOULDERING CRITERIA</b>		
Progressive smouldering and/or flaming observed within one hour of the removal of the flame?	NO	NO
Evidence of melting, charring, dripping?	Melting: <input checked="" type="checkbox"/> Charring: <input checked="" type="checkbox"/> Dripping: <input type="checkbox"/>	
<b>FLAMING CRITERIA</b>		
Flaming continued for more than 120 seconds after the removal of the burner?	NO	NO
Extent of damage from source of ignition (mm)	100 x 20	90 x 15
TEST RESULT	PASS	PASS

### CONCLUSION:

The sample supplied **meets** the performance criteria as stated in paragraph 3 of IMO FTP Part 8: 2010

END OF REPORT