

# ILIV

— CONTRACT TEXTILES —

## Q6715

### FIRE RATING CERTIFICATIONS

- BS 5867 Type B
- EN13773
- IMO 7
- B1

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## FLAMMABILITY TEST CERTIFICATE - 81020

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

**CONTACT NAME(S):** EMMA LOCKWOOD / SARAH WEST  
**TEL:** 01772665263  
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[Sarah\\_west@smd-textiles.co.uk](mailto:Sarah_west@smd-textiles.co.uk)

**DATE RECEIVED:** 05/03/2020  
**DATE TESTED:** 09/03/2020  
**DATE ISSUED:** 11/03/2020  
**PO NUMBER:** NOT STATED

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**SAMPLE DESCRIPTION:** OSLO Q6715  
**COLOUR:** MIDNIGHT  
**MODEL REF:** Q6715  
**QUALITY/BATCH REF:** BATCH 20431484  
**COMPOSITION:** 100% FR POLYESTER  
**SAMPLE END USE:** CONTRACT UPHOLSTERY  
**MANUFACTURER:** NOT STATED  
**SUPPLIER/BUYER:** SMD HOLDING LTD

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**PERFORMANCE REQUIRMENT:**

BS 5867-2: 2008 Type B – Flammability requirements specification – Fabrics for curtains, drapes and window blinds.

**TEST METHOD:**

BS EN ISO 15025: 2002 Procedure A (Surface Ignition) – Protective clothing – Protection against heat and flame.  
Methods of test for limited flame spread.

**PRE-TREATMENT:-**

One set of six specimens had been subjected to 12 standard wash cycles in accordance with BS EN ISO 10528: 1995 then line dried in ambient atmospheric conditions.

**CONDITIONING:**

The sample was conditioned for at least 24 hrs in a specified atmosphere at  $20 \pm 2^{\circ}\text{C}$  and  $65 \pm 5\%$  r h.

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Authorised By:



Zeb Alam  
Operations Director

Mark Jones  
Quality Manager

Karen Brooks  
Managing Director

## FLAMMABILITY TEST CERTIFICATE - 81020

### TEST RESULTS:

#### BEFORE CLEANISNG:

Test Criteria	1	2	3	4	5	6
Specimen Direction:	↑	↓	↑	←	→	←
Application Time:	15	15	15	15	15	15
Hole formed: (Y/N)	YES	YES	YES	YES	YES	YES
Hole reached the edge: (Y/N)	NO	NO	NO	NO	NO	NO
Flame reached the edge: (Y/N)	NO	NO	NO	NO	NO	NO
Flaming Debris: (Y/N)	NO	NO	NO	NO	NO	NO
Damage Length: (mm)	89	84	90	84	96	119
Damage width: (mm)	18	21	21	23	28	28
<b>Test Result</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

#### AFTER CLEANISNG:

Test Criteria	1	2	3	4	5	6
Specimen Direction:	↑	↓	↑	←	→	←
Application Time:	15	15	15	15	15	15
Hole formed: (Y/N)	YES	YES	YES	YES	YES	YES
Hole reached the edge: (Y/N)	NO	NO	NO	NO	NO	NO
Flame reached the edge: (Y/N)	NO	NO	NO	NO	NO	NO
Flaming Debris: (Y/N)	NO	NO	NO	NO	NO	NO
Damage Length: (mm)	106	97	103	116	101	114
Damage width: (mm)	28	28	29	23	22	22
<b>Test Result</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

#### PASS/FAIL CRITERIA:

No Part of any hole nor any part of the lowest boundary of any flame shall reach the top edge or either vertical edge of the sample. If any part of any hole or any part of the lowest boundary of any flame, reaches the top edge or either vertical edge, or if there is any separation of any flaming debris droplets in the testing of one specimen, a further six specimens must be tested and comply with the above requirements, the fabric shall be deemed to conform to the requirements of type B of BS 5867-2

#### CONCLUSION:

The sample supplied **meets** the type B performance requirement of BS 5867-2: 2008 when tested in accordance with BS EN ISO 15025: 2002 Procedure A (Surface Ignition) Before & after cleansing.

Our Ref: SW/LS/RM

08 December 2018

**Report 333249**

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

Contact: Katie Hamblett

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DATE RECEIVED	:	22 NOVEMBER 2018
QUALITY/REFERENCE	:	Q6715
REPUTED FIBRE CONTENT	:	NOT GIVEN
FABRIC DESCRIPTION	:	WOVEN
COLOUR/DESIGN	:	GREEN CHEVRON PATTERN
END USE	:	UPHOLSTERY
ORDER NUMBER	:	CONTRACTS 129

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REQUEST: Flammability in accordance with IMO 2010 FTP CODE ANNEX 1 PART 7

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COMMENTS: See report

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



**L. SHERIDAN**  
**LABORATORY MANAGER**

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\*This test has been sub-contracted

Our Ref: SW/LS/RM

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**Flammability in accordance with IMO 2010 FTP CODE ANNEX 1 PART 7**

**Conditioning**

A minimum of 24 hours at 65±5% Relative Humidity, 20±5°C

**Report**

**Flame application time:** 15 seconds

**Mode of flame application:** Edge ignition

The results may not apply to situations where there is restricted air supply or prolonged exposure to large sources of intense heat as in a configuration.

Face	Warp direction					Weft direction				
Specimen number	1	2	3	4	5	1	2	3	4	5
Flame reached and edge (✓ or X)	X	X	X	X	X	X	X	X	X	X
Hole reach an edge (✓ or X)	X	X	X	X	X	X	X	X	X	X
Surface flash (✓ or X)	X	X	X	X	X	X	X	X	X	X
Duration of flaming (s)	0	0	0	0	0	0	0	0	0	0
Length of char (mm)	128	99	59	79	81	101	99	91	129	141
Ignition of Cotton wool (Y/N)	N	N	N	N	N	N	N	N	N	N

**Mean Char Length Warp= 89mm      Weft= 112mm**

**Flame application time:** 15 seconds

**Mode of flame application:** Edge ignition

The results may not apply to situations where there is restricted air supply or prolonged exposure to large sources of intense heat as in a configuration.

Back	Warp direction					Weft direction				
Specimen number	1	2	3	4	5	1	2	3	4	5
Flame reached and edge (✓ or X)	X	X	X	X	X	X	X	X	X	X
Hole reach an edge (✓ or X)	X	X	X	X	X	X	X	X	X	X
Surface flash (✓ or X)	X	X	X	X	X	X	X	X	X	X
Duration of flaming (s)	0	0	0	0	0	0	0	0	0	0
Length of char (mm)	81	71	96	118	101	131	94	126	76	87
Ignition of Cotton wool (Y/N)	N	N	N	N	N	N	N	N	N	N

**Mean Char Length Warp= 93mm      Weft= 103mm**

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**Comments**

On the basis of the tests carried out this sample of fabric meets the performance criteria for curtains and drapes as specified in Clause 3 of IMO 2010 FTP CODE ANNEX 1 PART 7.

## Test Report

No. AJFS1812012553FF

Date: JAN.07, 2019

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SMD GROUP (UK)

PITTMAN WAY FULWOOD PRESTON LANCASHIRE PC: RR2 9ZD

The following sample(s) was / were submitted and identified on behalf of the client as:

**Sample Description:** Q6715 BASE CLOTH

**Color:** PRINT

**Thickness:** 1mm

**Composition:** 100% FIRE RETARDANT POLYESTER

**Style/Item No.:** Q6715 BASE CLOTH

**End Use Application:** CURTAINS

### **Test Requested:**

To determine the flammability (building materials class B1) in accordance with DIN 4102-1 (May 1998) Fire behaviour of building materials and elements Part 1: Classification of building materials, Requirements and testing

**Test Results:** -- See attached sheet --

**Classification:** The tested sample meets class B1 building materials requirements of DIN 4102-1 (May 1998).

### **Test Period:**

Sample Receiving Date : DEC.18, 2018

Test Performing Date : DEC.18, 2018 TO JAN.04, 2019

Signed for and on behalf of  
SGS-CSTC Co., Ltd. Anji Branch



Allen Zou  
Technical Manager



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**I. Test conducted**

This test was conducted as per DIN 4102-15:1990 DIN 4102-16:1998 and DIN 4102-1:1998 Clause 6.2, and Classification in according to DIN 4102-1 (May 1998) Clause 6.1-Class B1 materials.

**II. Sample details**

Sample description	Fabric
Density	About 317 g/m <sup>2</sup>
Size of sample	1000mm×190mm & 190mm×90mm

**Conditioning**

Prior to testing, the sample was conditioned at least 14 days to constant mass at a temperature of 23 ± 2 °C, and a relative humidity of 50 ± 6 %.

**III. Test results**
**1) "Brandschacht" Test according to DIN 4102-15 &16**

Exposed surface: The front face

Results of "Brandschacht" Test (part 1)				
Line No.	Unit	Test assemblies No.		
		Lengthwise	Widthwise	
1	Specimen fixings according to DIN 4102 part 15, table	/	1	1
2	Max. flame height above lower sample edge;	cm	60	60
3	Time <sup>1)</sup>	min:s	00:13	00:12
4	<u>Melting/burning through</u>		Yes	Yes
	Time <sup>1)</sup>	min:s	00:02	00:02
5	<u>Back of specimen</u>			
	Flaming/glowing, Time <sup>1)</sup>	min:s	00:02	00:02
6	Discolouring, Time <sup>1)</sup>	min:s	00:01	00:01
7	<u>Burning droplets</u>		Yes	Yes
	Begin 1)	min:s	00:04	00:03
8	<u>Amount</u>		/	/
	Specimen material falling off in separate droplets		✓	✓
9	Specimen material falling off continuously		/	/

To be continued...





Results of "Brandschacht" Test (part 2)			
Line No.	Unit	Test assemblies No.	
		Lengthwise	Widthwise
	<u>Burning parts</u>	No	No
10	Begin 1)	/	/
11	Parts of sample falling off separately	/	/
12	Parts of sample falling off continuously	/	/
13	Duration of continued combustion on mesh base (max.)	No	No
	<u>Burner flame impairment by dripping/falling material</u>	/	/
14	Time <sup>1)</sup>	/	/
	<u>Premature ending of test</u>	/	/
15	End of burning at specimen <sup>1)</sup>	/	/
16	Time when test terminated (if applicable) <sup>1)</sup>	/	/
	<u>Burning after end of test</u>	No	No
17	Duration	/	/
18	Number of specimens	/	/
19	Front of specimen	/	/
20	Back of specimen	/	/
21	Height of flame	/	/
	<u>Glowing after end of test</u>	No	No
22	Duration	/	/
23	Number of specimens	/	/
24	Front of specimen	/	/
25	Back of specimen	/	/
26	Top half of specimen	/	/
27	Bottom half of specimen	/	/

To be continued...



Results of "Brandschacht" Test (part 3)						
Line No.	Unit	Test assemblies No.				
		Lengthwise		Widthwise		
	<u>Residual length</u>	/		/		
28	Single results	cm	52	51	52	52
			50	57	53	53
29	Average of the single results	cm	52.5		52.5	
	<u>Smoke temperature</u>	/		/		
30	Max. of average	°C	139.7		141.6	
31	Time <sup>1)</sup>	min:s	05:23		05:51	

Note: <sup>1)</sup> time from start of testing

\*Reduction in number of test (DIN 4102 Part 16, clause 5.2)

Class B1 materials:

If the residual length measured after the first test is 45cm or greater, further tests are not required.

2) Normal Flammability Test according to DIN 4102-1 Clause 6.2

Edge ignition

Fire application time: 15s

Parameter	Lengthwise					Crosswise				
	1	2	3	4	5	6	7	8	9	10
Whether or not flaming extinguished before reach the gauge mark(Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Whether or not flaming reach the measuring mark within 20 seconds(Yes/No)	No	No	No	No	No	No	No	No	No	No
Time for the flame tip to reach the gauge mark(s)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Afterflame time (s)	0	0	0	0	0	0	0	0	0	0
Max. flame height (cm)	4	4	6	7	7	5	6	6	7	7
Molten dripping(Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)	Medium					Medium				

Note:

NA---Not applicable

To be continued...



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### IV. DIN 4102-1:1998 Criteria for classification

1) All materials, except flooring, may be classed as **B1** materials if they meet the following requirements a) and b):

a) The test using the 'Brandschacht' apparatus described in DIN 4102-15 (cf. subclause 6.1.3.1) shall be deemed passed if

– The mean value for the residual length (portion of specimen that has not burned or charred; cf. subclause 9.1 of DIN 4102-16) of each specimen is at least 15 cm and no individual values are lower than 0 cm,

– The mean effluent temperature does not exceed 200 °C in any test,

– The requirement for the residual length of each specimen is met even where there is afterflame, afterglow, or smouldering.

b) Pass DIN 4102-1: 1998 sub-clause 6.2.3 Ignitability Test if

For each specimen, flaming doesn't reach the gage mark within 20s after flame application.

2) Materials may be classed as **B2** materials if they pass the ignitability test specified in DIN 4102-1: 1998 subclause 6.2.5.

For each specimen, flaming doesn't reach the gage mark (150mm marks) within 20s after flame application.

3) Combustible materials which cannot be classed as B1 or B2 materials shall be classed as **B3** materials.

### STATEMENTS:

This test report does not replace any mandatory certification of the product that may be required.

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

### Photo Appendix:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

