

# PUFC 160

Perfect for: Stage • Outdoor Events

**J&C Joel** <sup>TM</sup>  
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## Composition and Care

**150 cm** 3

## Fire Certificates

**BS5867 Part 2 Type B** 4

**B1** 7

## TECHNICAL



**NDFR**  
**Non Durably Flame Retardant**  
chemically treated with a water solution and if wetted in any way should be retreated



**DFR**  
**Durably Flame Retardant**  
chemically treated to withstand a number of cleanings



**IFR**  
**Inherently Flame Retardant**  
woven from fibres with a high flame retardancy



**FR**  
**Flame Retardant**  
chemically treated to an individual specification



**NOT FR**  
**Not Flame Retardant** no flame retardant treatment



Confirmation that the fabric meets one or more flame retardant standards

**BS5867** BS5867 Pt2 B is the British Standard for flame retardant fabrics used for curtains and drapes

**BS5852** BS5852 Pt1 is the British Standard for flammability of upholstered composites for seating

**BS4790** BS4790: 1987 Determination of the effects of a small source of ignition on textile floor coverings hot metal nut method (method 1, loose laid)

**EN13773: 2003** Meets European fire safety standards for vertically hung fabrics. Burning behavior, ignitability testing of curtain fabric for use in the contract market.

**TL 1080-0002/8** German Military Specification for horizontally tested materials

**EN14041** Details the requirement for CE Marking of textiles, laminate and resilient floor coverings

**BS7905-1:2001** Lifting equipment for performance, broadcast and similar applications.

## ATTRIBUTES



Approx roll length of material in linear metres (m) & feet (ft)



Approx width of material in centimetres (cm) & inches (")



Approx weight in grams per metre squared (g/m<sup>2</sup>)



Approx thickness in (mm)

**M1, M2, M4** Conforms to French Fire Regulations

**B1, B2** Conforms to German Fire Regulations DIN 4102

**IMO** Conforms to International Maritime Organisation regulations

**Classe Uno** Meets Italian Fire Regulations

**BS EN13501-1** Fire Classification of construction, products and building elements. Classification using test data from reaction to fire tests






**CFC EN ISO 9239-1** Reaction to fire test. Horizontal surface spread of flame on floor covering system. Determination of the burning behaviour using a retardant heat source

**NFPA 701** NFPA 701: (USA) Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

**EN9239-1** Reaction to fire tests – horizontal surface spread of flame on floor covering systems

**DIN EN1021** Meets European fire safety standards for exposure to different ignition sources, namely a lit cigarette and butane flame. Assessment of the ignitability of upholstered furniture

To ensure you get the best from the product supplied to you, we advise you follow the care instructions within this datasheet.

<b>Fabric</b>	<b>Flame Retardancy</b>	DFR
	<b>Fire Certification</b>	BS5867 Part 2 Type B, B1
	<b>Brand Name (and Manufacturer)</b>	J&C Joel Ltd.
	<b>Material (Blending Ratio)</b>	100% Polyester
	<b>Construction of Fabric</b>	Plain Weave
<b>Chemicals</b>	<b>Surface Treatments</b>	Polyvtrathrine Coated
	<b>Brand Name of Flame Retardant Chemicals</b>	Fluorocarbonate
	<b>Chemical name of Flame Retardant Chemicals</b>	Flurocarbonate
	<b>Process of Flame Retardant Chemicals</b>	Coated
<b>Care</b>	<b>Information</b>	Coated Durably Flame Retardant. This means that this type of material is chemically treated to meet the flammability requirements of BS5867 Part 2 Type B and B1. FR properties will be maintained if subject to moisture.
	<b>Laundering Treatment</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> Do Not Dry Clean</div> <div style="text-align: center;"> Do Not Wash</div> <div style="text-align: center;"> Do Not Bleach</div> <div style="text-align: center;"> Do Not Iron</div> <div style="text-align: center;"> Do Not Tumble Dry</div> </div>
<b>Notes</b>		

					
Fire Rating: DFR	Approx Roll Length: 75m / 246ft	Width: 150cm / 59"	Weight: 160 g/m <sup>2</sup>	Fire Certification: BS5867 Part 2 Type B, B1	Colour Available 1

# Fire Test Certificate - Specimen

Fabric: PUFC 160

Type: BS5867 Part 2 Type B

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**intertek**  
Total Quality. Assured.

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## FLAMMABILITY TEST REPORT

Report No.: LEI23080749A  
Original

Date Received: 10/08/23

Date Tested: 16/08/23

Date Issued: 16/08/23

### Sample Details


Order No.: Not stated  
Sample Description: 300D PU FR POLYESTER COATED  
Ref. / Style No.: 300D PU FR  
Colour: BLACK  
Quality: Not stated  
Supplier: FPL  
Batch No.: 040723  
End Use: FR STRUCTURES  
No. Of Samples: 1  
Quoted Fibre Composition: Not stated  
Weight / Width: 190GSM 150CM WIDE  
Retailer: General  
Buying Division: Not stated  
Sample Description: Black coloured polymeric material

Test Method	Pre Treatment	Flammability Performance Requirement	Result
BS 5867: Part 2: 2008	The sample was tested without any form of cleansing or wetting procedure as requested by the customer.	Type B	PASS

Note: In accordance with clause 7 of BS 5867: Part 2: 2008 a fabric for which compliance with the requirements of this standard is claimed shall be supplied with the following information, the manufacturer's name, trademark or other identifying mark, the statement 'Flammability complies with the requirements of BS 5867: Part 2 Type B' and instructions on any special precautions to be taken concerning care (including cleansing) of the product, preferably using an appropriate care labelling symbol in accordance with BS EN ISO 3758 and taking account of the durability procedure used in this test.

Fabrics which are claimed to be treated with a non-durable flame-retardant finish may be tested without any form of cleansing or wetting procedure prior to testing if agreed between the parties involved. BS 5867: Part 2: 2008 states that if the fabric tested has not been subjected to any form of cleansing or wetting procedure prior to testing due to the fabric being treated with a non-durable flame retardant finish it is important that the fabric be clearly labelled as follows:  
**WARNING: IF WETTED IN ANY WAY IT IS ESSENTIAL TO RE-TREAT THE FABRIC TO MEET FLAMMABILITY REQUIREMENTS. Or:**  
**WARNING: WETTING IN ANY WAY MIGHT REMOVE THE FIRE RESISTING QUALITIES OF THE FABRIC**

STEVEN OWEN  
(Technical Quality & Systems Director)

  
ANDREW HALLETT  
(Flammability Team Leader)

CAROLE SPOWART  
(Flammability Administrator)


TREFOR LEE  
(Senior Flammability Technician)


Report No.: LEI23080749A Original Page 1 of 3


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## FLAMMABILITY TEST REPORT

### Test Specification

Test Method: BS 5867: Part 2: 2008 Type B using BS EN ISO 15025:2002  
(With the modifications from clause 6.3.2 of BS 5867: Part 2: 2008).  
Ignition Source: 25mm horizontal reach Propane gas flame  
Ignition Type: Surface  
Flame Application Time: 15±1 seconds  
Sample Size: 200 x 160mm  
Side Tested: Face

### Uncertainty of Measurement

The uncertainty of measurement has been estimated to be 4.40%

### Pre-Treatment / Durability Procedure

None

### Conditioning

Prior to Testing: At least 24 hours in an atmosphere having a temperature of 20±2°C, and a relative humidity of 60±5%  
At Time of Testing: Temperature between 15°C & 30°C. Relative humidity between 20% & 65%

### Test Results

Report of tests carried out in accordance with BS EN ISO 15025:2002. 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 conflagration.

Sample No./ Direction	Duration of flaming (Secs)	Duration of afterglow (Secs)	Flaming debris	Flame to edge	Hole to edge	Maximum damaged length (mm)	
						Horizontal	Vertical
1. Length ↑	0.0	0.0	No	No	No	30	60
2. Length ↓	0.0	0.0	No	No	No	25	63
3. Length ↑	0.0	0.0	No	No	No	34	73
4. Width →	15.7	0.0	No	No	No	44	76
5. Width ←	0.0	0.0	No	No	No	29	58
6. Width →	0.0	0.0	No	No	No	32	62

### Conclusions


When tested without any form of cleansing or wetting procedure the sample meets the flammability performance requirements of BS 5867: Part 2: 2008 Type B. **PASS.**


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## FLAMMABILITY TEST REPORT

The client acknowledges and agrees that any services provided and/or reports produced by Intertek are done so within the limits of the scope of work agreed pursuant to the client's specific instructions. This report relates specifically to the sample(s) tested that were drawn and delivered by the client or their nominated third party. Intertek does not make any representation or warranty for any bulk samples or certify the bulk samples received from the client. Furthermore, Intertek does not provide a warranty or verification on the sample(s) representing any specific goods, material and/or shipment and only relate to the sample(s) as received and tested. Intertek have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. In no event, will the contents of any reports or any extracts, excerpts or parts of any reports be distributed or published without the prior written consent of Intertek in each instance. Only the client is authorized to permit copying or distribution of this report (and then only in its entirety). Any such third parties to whom this report may be circulated rely on the content of the report solely at their own risk.


The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of  $k = 2$ , providing a level of confidence of approximately 95 %. Unless otherwise specified all compliance and pass/fail statements are binary simple acceptance based on the tolerance interval and, with the exception of graded methods, a test uncertainty ratio greater (TUR) than 4:1. For graded methods the TUR will drop to as low as 0.5:1 when the tolerance limits are within a grade division of the upper scale limit. The Uncertainty budgets are stated for each Test method, these are for reference, and should be considered when results are on or close to Specification Limits / Requirements and in such cases it should be noted that the risk of false acceptance or rejection may be as high as 50%, for further information please refer to ILAC G8.


SPECIMEN


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# Fire Test Certificate - Specimen

Fabric: PUFC 160

Type: B1

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## Test Report

No. SDFS2305003055RS

Date: Jun.20, 2023

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J&C JOEL LIMITED  
CORPORATION MILL, CORPORATION STREET, SOWERBY BRIDGE, HALIFAX, HX6 2QQ, UK

Sample Description : 100% POLYESTER FABRIC WHICH IS WASHED DYED AND THERMOFIXED THEN COATED WITH TWO COATS OF F/R POLYURETHANE AND TREATED WITH FLUOROCARBON WATER REPELLENT. (160GSM, 1.5M WIDE)

Color : BLACK

Composition : 100% POLYESTER

The above data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion.

SGS Ref No. : AJFS2305004462RS

Sample Receiving Date : May 31, 2023

Test Performing Date : May 31, 2023 to Jun.19, 2023

### Test Result Summary

Test(s) Requested	Result(s)
DIN 4102-1:1998-05	The sample tested meets the requirements of class B1 of DIN 4102-1:1998-05 Clause 6.

#### Summary:

- For further details, please refer to the following page(s).

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

Ada




Ada Liu  
Approved signatory





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# Fire Test Certificate - Specimen

Fabric: PUFC 160

Type: B1

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Test Report

No. SDFS2305003055RS

Date: Jun.20, 2023

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## TESTS AND RESULTS

### Test Conducted:

These tests are conducted in DIN 4102-1:1998-05 Clause 6 Class B building materials according to the application.

### Conditioning:

Temperature: (23±2)°C; Relative Humidity: (50±6)%; Duration: 2 weeks;

### Test Requirement:

All materials, except flooring, may be classed as B1 materials if they  
– withstand the test specified in DIN 4102-16 using the 'Brandschacht' apparatus specified in DIN 4102-15, and  
– meet the requirements for class B2 materials.

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.

### Test Results:

#### 1.DIN 4102-1 B2 Test Result

Parameter	Results									
	Bottom edge ignition					Surface ignition				
	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Specimen ignition (Yes/No)	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*
Ignition ceased time(s)	-	-	-	-	-	-	-	-	-	-
If flame tip reached 150mm line/40,190mm line(Yes/No)	No	No	No	No	No	No	No	No	No	No
Ignition time to reached 150mm line/40,190mm line(s)	-	-	-	-	-	-	-	-	-	-
Filter paper ignition (Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments	Slight smoke					Slight smoke				

Remark: \*--The specimen was ignited but self-extinguished after removed the burner.

### Class B2 Test requirement:

This test shall be deemed passed if, for any of the five specimens tested, flaming does not reach the gauge mark within 20 seconds after flame application, either with bottom edge ignition or surface ignition.


**Sub-conclusion:** Pass





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# Fire Test Certificate - Specimen

Fabric: PUFC 160

Type: B1

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Test Report

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## 2. Additional DIN4102-16 Test Result

Group 1:

Parameter	Results				Average value
	#1	#2	#3	#4	
Remaining length (cm)	64	60	65	66	64
Max. flue gas temperature (°C)	87				
After flame / after glow (s)	0				
Other observation	Melting				

Remark: According to DIN 4102-16 Clause 5.2, if the residual length measured after the first test is 45cm or greater, further tests are not required.

**Sub-conclusion:** Pass

### Conclusions:

The sample tested meets the requirements of class B1 of DIN 4102-1:1998-05 Clause 6.

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### SAMPLE INFORMATION AND PICTURES

Area Density: 182g/m<sup>2</sup>  
Thickness: 0.2mm




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





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