



# Confidential Report

**Our Ref: 27/04711A/08/18**



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Notified Body  
for PPE Directive,  
Construction Products Regulation  
& Marine Equipment Directive  
I.D. No. 0338 & 0339



Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.  
Telephone: +44 (0) 113 259 1999  
Email: [info@bttg.co.uk](mailto:info@bttg.co.uk)  
Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 14 September 2018

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Client: Camira Fabrics Ltd  
The Watermill  
Wheatley Park  
Mirfield  
West Yorkshire  
WF14 8HE

Job Title: Fire Test on One Sample of Material

Client's Order No: 83A00137

Date of Receipt: 13 August 2018

Description of Sample(s): One sample of material referenced; Racer/Relay/228689

Work Requested: We were asked to make the following test(s):

BS 476 Part 7

Note: This report relates only to the samples submitted and as described in the report.

- \* subcontracted test, UKAS accredited
- \*\* subcontracted test, EN ISO/IEC 17025 accredited
- \*\*\* not UKAS accredited



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## **FIRE TESTS ACCORDING TO BS 476:PART 7:1987 (AS AMENDED) (Method for classification of the surface spread of flame of products)**

Date of Test: 14/09/2018

### **Conditioning**

The composite samples were conditioned to constant mass at a temperature of  $23\pm 2^{\circ}\text{C}$  and a relative humidity of  $50\pm 10\%$  and maintained in this condition until required for testing

### **Procedure**

The test was carried out in accordance with BS 476:Part 7: 1987. The sponsor sampled the materials and the specimens were cut from the samples received to the dimensions set out in the standard by FTS. The specimens were tested adhered to a 12mm calcium silicate board, using PVA adhesive.

The following were recorded:-

- a) the time at which the flame front crosses each vertical reference line;
- b) the maximum extent of flame spread during the first 1.5 min from the start of the test;
- c) the maximum extent of flame spread during the whole test i.e. 10 min or less (if applicable)
- d) the time (and distance) at which maximum flame spread is reached.

The flame spread at 1.5min and the final flame spread results were compared with the standard class limits and a classification was assigned.



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## Requirements

The class limits for flamespread, detailed in BS 476:Part 7: are set out below.

	Flame spread at 1.5 min (mm)	Final flame spread (mm)
Class 1	165 (+25)	165 (+25)
Class 2	215 (+25)	455 (+45)
Class 3	265 (+25)	710 (+75)
Class 4	Exceeding Class 3 limits.	

A definitive classification is based on a sample of six specimens and the figure in brackets gives the tolerance by which only one specimen in six may exceed the class limit assigned.

## Results

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

Time for flame spread to reach (s) (mm)								Flame spread 1.5 min (mm)	Maximum flame spread (mm)	Time to reach maximum flame spread (s)
75	165	215	265	455	710	785	825			
--	--	--	--	--	--	--	--	60	60	61
--	--	--	--	--	--	--	--	60	60	61
--	--	--	--	--	--	--	--	60	60	60
--	--	--	--	--	--	--	--	60	60	60
--	--	--	--	--	--	--	--	60	60	61
--	--	--	--	--	--	--	--	60	60	60



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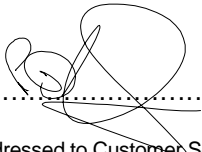
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## Classification

The results indicate that the sample met the performance requirements of Class 1.

Uncertainty of measurement has not been taken into account when presenting the test result. The relevant uncertainty value is included as an annex which forms an integral part of the report.

Reported by:..... *23 March* ..... B Marsden (Mrs), Fire Technician

Countersigned by:.....  ..... P Doherty, Operational Head

Enquiries concerning this report should be addressed to Customer Services..



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## Uncertainty Budget - Annex

The overall uncertainty budgets for BS 476-7:1987 are as follows:-

### BS 476-7:1987

Overall:  $\pm 20\%$



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