



# Confidential Report

**Our Ref: 27/06390/02/24**





Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.  
Telephone: +44 (0) 113 259 1999  
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Date: 11 March 2024

Our Ref: 27/06390/02/24  
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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 Carpet

**Clients Order Ref:**

**Date of Receipt:** 21 February 2024

**Description of Sample:** One sample of Fabric, referenced; Quality: Sprint, Colour: Energy (batch 537528).

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

BS 476 Part 7

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



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Note: This report relates only to the items tested.

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## FIRE TESTS ACCORDING TO BS 476:PART 7:1997 (Method for classification of the surface spread of flame of products)

Date of Test: 07/03/2024

### Conditioning

The sample was 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

### Mounting Method

Each specimen was tested fully adhered to a 12mm calcium silicate board, using PVA adhesive.

### Procedure

The test was carried out in accordance with BS 476: Part 7: 1997. The sponsor sampled and cut the specimens to the dimensions stated.

The following were recorded:-

- the time at which the flame front crosses each vertical reference line;
- the maximum extent of flame spread during the first 1.5 min from the start of the test;
- the maximum extent of flame spread during the whole test i.e. 10 min or less (if applicable)
- 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 7:1997 (As Amended), 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.



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**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 at 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	60
--	--	--	--	--	--	--	--	60	60	60
--	--	--	--	--	--	--	--	60	60	61
--	--	--	--	--	--	--	--	60	60	61
--	--	--	--	--	--	--	--	60	60	60
--	--	--	--	--	--	--	--	60	60	60

**Observations**

Y was added because on all specimens the fabric melted after 60 seconds, leaving gaps between clumped, melted strands of fabric.

**Comments**

A suffix Y is added to the classification if any softening and/or any other behaviour that may effect the flame spread occurs. The Y suffix was added to this classification due to specimen melting and peeling away from the heat source after the initial first minute of testing.

**Classification**

The results indicate the sample meets the performance requirements of Class 1Y.





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## Note

Test BS 476-7:1997 is accredited under our flexible scope policy.

Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

See our decision rules Policy (<https://www.bttg.co.uk/about-us/decision-rules-policy/>) for further information.

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

Countersigned by:..... *A Shute* ..... A Shute, Section Leader

Enquiries concerning this report should be addressed to Customer Services.



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## Uncertainty Budget

The overall uncertainty budget for BS 476-7:1997 is as follows:-

Overall:  $\pm 12\%$



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