



Confidential Report

Our Ref: 26/03702B/06/26





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Website: www.bttg.co.uk

Date: 22 July 2026

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Client:

Interfloor Ltd

Broadway
Haslingden
Rossendale
Lancashire
BB4 4LS

Job Title:

Fire Test on One Sample of Carpet and Underlay

Clients Order Ref:

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Date of Receipt:

19 June 2026

Description of Sample:

One sample of underlay, referenced Starbase Green FR 4mm.
One sample of carpet, referenced Brintons AX1028A

Work Requested:

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

BS EN ISO 11925-2

BS EN ISO 9239-1

- * subcontracted test, UKAS accredited
- ** subcontracted test, EN ISO/IEC 17025 accredited
- *** not UKAS accredited
- **** test is accredited under our flexible scope policy.



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This report relates only to the items tested.
All tests were carried out in the laboratories in Leeds, unless otherwise indicated.

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Product Description Sheet

(as supplied by the client)

Underlay	
Name and/or Identification of the Product Tested	STARBASE GREEN FR 4mm
Type of Underlay	PU
Nominal Total Thickness (mm)	4MM
Nominal Total Weight (g/m ²)	Not Supplied
Nominal Density (Kg/m ³)	160 KG/M3 ³
Quantity and Number of Flame-Retardant Coating	Not Supplied
Carpet	
Name and/or Identification of the Product Tested	Brintons AX1028A
Construction of Carpet (tufted, Wilton etc)	Woven Axminster
Pile Fibre Composition (%)	80%Wool 20% Nylon
Composition of Primary Backing (if applicable)	Polyester polypropelene Latex
Composition of Secondary Backing (if applicable)	Not Supplied
Type of Latex (if applicable)	Carboxilic
Total Carpet Mass per Unit Area (g/m ²)	2148
Total Pile Mass per Unit Area (g/m ²)	1462
Total Thickness (mm)	10.1
Pile Thickness (mm)	7.4
No. of tufts, Pitch/Stitch (tufts per 10cm)	Not Supplied
No. of tufts, Rows/Gauge (tufts per 10cm)	1087/CM2
Quantity and Number of Flame-Retardant Coating	0



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FIRE TESTS ACCORDING TO BS EN ISO 11925-2:2020

Reaction to fire tests for building products – Part 2:

Ignitability when subjected to direct impingement of flame

Date of Test: 16/07/26

Conditioning

Test specimens and filter paper conditioned as described in BS EN 13238:2010.

Mounting Method

Each specimen was mounted using the following conditions:

Method of Mounting/Fixing:	Adhered
Test Substrate (as specified in (BS EN 13238):	8mm Fibre Cement Board (ISO 390)
Adhesive (if applicable):	The specimens of underlay and carpet were tested using the using the double stick system. Where the underlay is tackified to a 6mm fibre cement backing board with Stikatak STK950 and then the carpet is permanently adhered to the underlay with Stikatak STK900.

Procedure

The sample was tested in accordance with BS EN ISO 11925-2:2020.

Three specimens from each direction were tested in accordance with the above standard. Specified filter paper was placed beneath the specimen holder and replaced between tests.

The specimens were mounted vertically in the specimen holder so that one end and both sides were enclosed with the exposed end 30mm from the end of the frame. The burner was inclined at an angle of 45°. The flame height was set at 20 mm with the flame impinging on the specimen for 15 seconds on the centre line, 40 mm above the bottom edge.



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Procedure (Continued)

A marker was placed 150 mm above the upper end of the burner and the time recorded when the flame tip reached the marker, if applicable. The following parameters were also recorded:-

1. If ignition occurs
2. Presence of flaming debris, if applicable
3. Ignition of the filter paper, if applicable

Duration of test

For a flame application time of 15 seconds, the total test duration is 20 seconds after application of the flame.

Classification Criteria (***)

BS EN 13501-1:2018 Fire classification of Construction Products and Building Elements: Part 1 – Classification using Test Data from Reaction to Fire Tests specifies the following:

Flaming Classification	
Classification	Criteria (mean values)
E _{FL}	F _s ≤ 150mm within 20 seconds
F _{FL}	None (No performance determined)
Flaming droplets / particles classification	
Classification	Criteria
No classification	Pass
d2	Fail (Ignition of paper)

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Results

Specimen	Ignition (Yes or No)	Tip of flame reaches 150mm		Flaming droplets	
		Yes or No	Time taken (s)	Yes or No	Ignition of Filter paper (Yes or No)
Machine Direction	1 Yes	No	N/A	No	No
	2 Yes	No	N/A	No	No
	3 Yes	No	N/A	No	No
Across Machine Direction	1 Yes	No	N/A	No	No
	2 Yes	No	N/A	No	No
	3 Yes	No	N/A	No	No



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FIRE TESTS ACCORDING TO BS EN ISO 9239-1:2010

Reaction to fire tests for Floorings - Part 1: Determination of the burning behaviour using a radiant heat source (ISO 9239-1:2010)

Date of Test: 16/07/26

Conditioning

The specimen was conditioned in accordance with BS EN 13238:2010.

Mounting Method

Each specimen was mounted using the following conditions, as defined in BS EN 13238:2010:

Method of Mounting/Fixing:	Adhered
Test Substrate (as specified in (BS EN 13238):	8mm fibre cement board
Adhesive (if applicable):	The specimens of underlay and carpet were tested using the using the double stick system. Where the underlay is tackified to a 6mm fibre cement backing board with Stikatak STK950 and then the carpet is permanently adhered to the underlay with Stikatak STK900.
Joint at 250 mm from the Zero Point:	No
Joint at Longitudinal Centre:	No

Procedure

The test was carried out in accordance with BS EN ISO 9239-1:2010. The sponsor sampled and cut the specimens to the dimensions stated.

Specimens were individually placed in the combustion chamber and allowed to preheat for two minutes under a radiant panel, which gives an imposed radiant flux ranging from approximately 11.0 kW/m² to 1.0 kW/m² along the specimen.

The pilot flame used was the line burner as described and was applied to the surface of the specimen for 10 minutes and then removed.





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Procedure (Continued)

The flame front was measured at the end of the test or at 30 minutes if applicable.

Test termination was considered to be when the flame front self extinguished or at 30 minutes, whichever is the sooner.

The heat flux from the panel incident on the specimen when self extinguished or at 30 minutes (critical heat flux CHF or HF-30) was calculated from a prior calibration.

Classification Criteria (***)

BS EN 13501-1:2018 - Fire classification of Construction Products and Building Elements: Part 1: Classification using Test Data from Reaction to Fire Tests specifies the following:

Classification	Classification Criteria (mean values) (kW/m ²)
Bfl	8.0
Cfl	4.5
Dfl	3.0
	Smoke Production % x min
s1	≤ 750
s2	Not s1

When tested to BS EN ISO 11925-2:2020 the sample has to have a flame spread (Fs) of: $F_s \leq 150\text{mm}$ within 20 seconds (Class Efl).



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Results

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

<u>Specimen No.</u>	<u>Direction of specimen</u>	<u>Smoke Obscuration</u>		<u>Maximum Flame front (mm)</u>	<u>Critical Heat Flux (kW/m²)</u>	<u>Duration of Flaming (sec)</u>
		<u>Max %</u>	<u>% x min</u>			
1	Machine	12	40	152	9.9	780
2	Across	13	49	131	10.3	841
3	Machine	15	57	188	9.1	796
4	Machine	14	47	191	9.1	895
Mean of 3 specimens	Machine	14	48	177	9.4	824

<u>Distance Burnt (mm)</u>	<u>Time for each specimen to burn (s)</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
50	141	132	130	131
100	163	170	140	143
150	184	--	161	157

Note

One specimen was initially tested in each direction and whichever direction gave the worst result a further two specimens were tested. Only the results of the 3 specimens in the same direction were used to calculate the mean results.



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Comment (***)

The results meet the requirements of a **Class B_{fl}-s1**, as specified in BS EN 13501-1:2018.

This document does not represent type approval or certification of the product.

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 Laboratory 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 uncertainty budget for BS EN 13501-1 was determined as follows:-

BS EN ISO 11925-2

± 2 seconds for time recorded removal of flame and terminate test and ± 2 mm to measure the distance at 150mm

Overall (BS EN ISO 9239-1)

The uncertainty varies, therefore:

- | | | |
|---------------------|-----------------------------------|------------|
| a) | At position between 0 – 450mm | $\pm 7\%$ |
| b) | At position between 450mm -1000mm | $\pm 8\%$ |
| Smoke Obscuration - | | $\pm 15\%$ |

