



Confidential Report

Our Ref: 2504980C/09/12

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

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Client: Jacaranda Carpets Ltd
1 Cockerel Rise
Magnetic Park
Desborough
Northamptonshire
NN14 2WE

Job Title: **Fire Test on One Sample of Carpet**

Clients Order Ref: ---

Date of Receipt: 19 September 2012

Reference: **Bilpar, 100% Wool, Velvet**
Description of Sample: Cut Pile
Latex Backed
Handwoven Carpet
Measurements: 100cm x 400cm

Work Requested: BCTC were requested to carry out a Fire Test to BS EN 13501-1 on the sample of carpet supplied.





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FIRE TESTS ACCORDING TO BS EN ISO 11925-2:2002
Reaction to fire tests for building products – Part 2:
Ignitability when subjected to direct impingement of flame

Date of Test: 02/10/2012

Conditioning

Test specimens and filter paper conditioned as described in BS EN 13238:2001.

Procedure

The sample was tested in accordance with BS EN ISO 11925-2:2002.

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.

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.





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Classification Criteria

The samples were classified according to BS EN 13501-1:2002 Fire classification of Construction Products and Building Elements: Part 1 – Classification using Test Data from Reaction to Fire Tests, Table 1 – Classes of reaction to fire performance for construction products excluding floorings.

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)

Results

	<u>Ignition</u> (Yes or No)	<u>Time of flaming if ignition occurs (s)</u>	<u>Tip of flame reaches 150mm</u>		<u>Flaming droplets Ignition of Filter paper (Yes or No)</u>
			<u>Yes or No</u>	<u>Time taken (s)</u>	
Warp 1	Yes	8	No	N/A	No
Warp 2	Yes	9	No	N/A	No
Warp 3	Yes	9	No	N/A	No
Weft 1	Yes	9	No	N/A	No
Weft 2	Yes	10	No	N/A	No
Weft 3	Yes	9	No	N/A	No



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FIRE TESTS ACCORDING TO BS EN ISO 9239-1:2002
Reaction to fire tests for Floorings - Part 1: Determination of the burning behaviour using a radiant heat source (ISO 9239-1:2002)

Date of Test: 02/10/2012

Conditioning

The specimens were conditioned in accordance with BS EN 13238:2001. The substrate used was a fibre cement board (ISO 390) with a thickness of (6 ± 1) mm and a density of $(1,800\pm 200)$ Kg/m³ representing the standard substrate of Class A1fl or A2fl.

Procedure

The test was carried out in accordance with BS EN ISO 9239-1. 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.

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.





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Classification Criteria

The samples were classified according to BS EN 13501-1:2002: Fire classification of Construction Products and Building Elements: Part 1: Classification using Test Data from Reaction to Fire Tests.

For floorings, including their surface coverings the classes are:

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 11925-2:2002 the sample has to have a flame spread (Fs) of: $F_s \leq 150\text{mm}$ within 20 seconds (Class Efl).

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.





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Results (Continued)

Specimen No.	Direction of specimen	Smoke Obscuration		Maximum Flame front (mm)	Critical Heat Flux (kW/m ²)	Duration of Flaming (sec)
		Max %	% x min			
1	Machine	19	63	295	7.1	928
2	Across	21	59	305	6.9	863
3	Across	21	67	280	7.4	923
4	Across	27	97	300	7.0	841
Mean of 3 specimens	Across	23	74	295	7.1	909

Distance Burnt (mm)	Time for each specimen to burn (s)			
	1	2	3	4
50	122	122	122	122
100	125	126	124	125
150	131	130	129	131
200	136	138	137	136
250	151	148	158	145
300	---	150	---	180

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.

The specimens of floor covering were tested loose laid onto a 6mm fibre cement board as defined in BS EN 13238:2001.





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Comments


In our opinion, based on the tests carried out on the sample supplied;

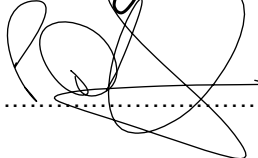
- a) the results of the BS EN ISO 11925-2:2002 test indicate the sample meets the requirements of a Class E_{FL}. It should be noted that this is only class that can be achieved when tested to this method alone.
- b) the results of the BS EN ISO 9239-1:2002 test indicate the sample meets the requirements of a Class C_{FL}-s1 when tested to this method alone.

Conclusion

In our opinion, the results indicate that the sample when classified to BS EN 13501-1:2002 meets an overall classification of: **Class C_{fl}-s1**.

An estimation of uncertainty of measurement has not been taken into account when making a judgement to any pass/fail criteria.

Reported by:.....  R Ryan, Laboratory Technician

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

Enquiries concerning this report should be addressed to Customer Services.

