

**BS EN ISO 11925-2:
2002**

**Ignitability Of Building
Products Subjected To
Direct Impingement Of
Flame**

WF Report Number:

157858

Date:

7th December 2006

Test Sponsor:

**Reeds Carpeting
Contractors**



0249

Warringtonfire Test Report No. 157858

BS EN ISO 11925-2: 2002

**Reaction To Fire Tests - Ignitability Of
Building Products Subjected To Direct
Impingement Of Flame – Part 2: Single-
flame Source Test**

Sponsored By

**Reeds Carpeting Contractors
183 Torrington Avenue
Coventry
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Test Details

Purpose of test	<p>To determine the performance of specimens of a product when they are subjected to the conditions of the test specified in BS EN ISO 11925-2:2002 "Reaction to Fire tests - Ignitability Of Building Products Subjected to Direct Impingement of Flame – Part 2: Single Flame Source Test".</p> <p>The test was performed in accordance with the procedure specified in BS EN ISO 11925-2:2002 Reaction to Fire Tests - Ignitability of Building Products subjected to direct impingement of flame – Part 2: Single Flame Source Test, and this report should be read in conjunction with that BS EN ISO Standard.</p>
Scope of test	<p>BS EN ISO 11925-2 specifies a method of test for determining the ignitability of building products by direct small flame impingement under zero impressed irradiance using specimens tested in a vertical orientation.</p>
Fire test study group/EGOLF	<p>Certain aspects of some fire test specifications are open to different interpretations. The Fire Test Study Group and EGOLF have identified a number of such areas and have agreed Resolutions which define common agreement of interpretations between fire test laboratories which are members of the Groups. Where such Resolutions are applicable to this test they have been followed.</p>
Instruction to test	<p>The test was conducted on the 12th September 2006 at the request of Reeds Carpeting Contractors, the sponsor of the test.</p>
Provision of test specimens	<p>The specimens were supplied by the sponsor of the test. Warringtonfire was not involved in any selection or sampling procedure.</p>
Conditioning of specimens	<p>The specimens were received on the 1st September 2006.</p> <p>Prior to test the specimens were stored for 11 days in a standard atmosphere as defined in BS EN 13238:2001 Conditioning Procedures and General Rules for selection of substrates until constant mass was achieved.</p>
Substrate	<p>The specimens were tested with a 6mm thick fibre cement board substrate present.</p>
Flame application time	<p>The flame was applied for 15 seconds.</p>

Description of Test Specimens

The description of the specimens given below has been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.

Product configuration		<ul style="list-style-type: none"> • Carpet • Substrate 		
Carpet	General description		Carpet Floor covering	
	Product reference of carpet		"Evo-rib"	
	Name of manufacturer of carpet		B.I.G.	
	Overall thickness of carpet		4mm	
	Overall weight per unit area of carpet		400g/m ²	
	Colour reference of carpet		Orange	
	Pattern reference of carpet		"Ribbed"	
	Pile	Product reference		"Evo-rib"
		Generic type		Needlepunched polypropylene
		Name of manufacturer		B.I.G.
		Pile height above the backing		3.9mm
		Weight per unit area		390g/m ²
	Flame retardant details		See Note 1	
	Backing	Product reference		"Evo-rib"
		Generic type		SBR resin lacquer
		Name of manufacturer		B.I.G.
		Thickness		0.1mm
		Weight per unit area		10g/m ²
Flame retardant details		See Note 1		
Substrate	Product reference		"NT D4 604"	
	Generic type		Fibre cement board	
	Name of supplier		Scheerders van de Kerkhove (SVK)	
	Thickness		6mm	
	Density		1800kg/m ³	
Flame retardant details		The substrate is inherently flame retardant		
Brief description of manufacturing process utilised in the production of the carpet tile		Needlepunched polypropylene fibres backed with SBR Resin with ribbed construction.		

Note 1: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product / component.

Test Results

Number of specimens tested

Six specimens were tested, each of which were subjected to surface exposure to flame with the decorative face exposed.

Six specimens were tested, each of which were subjected to edge exposure to flame with the decorative face exposed.

Applicability of test results

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

The test results relate only to the specimens of the product in the form in which they were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product which is supplied or used is fully represented by the specimens which were tested.

The test results for the individual specimens, together with observations made during the test and comments on any difficulties encountered during the test are given in Tables 1 and 2.


On each set of six specimens which were tested, the flame tip did not reach a distance of 150mm before the end of the test.


Validity


The specification and interpretation of fire test methods are the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons it is recommended that the relevance of test reports over five years old should be considered by the user. The laboratory that issued the report will be able to offer, on behalf of the legal owner, a review of the procedures adopted for a particular test to ensure that they are consistent with current practices, and if required may endorse the test report.

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Signatories


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* For and on behalf of warringtonfire.

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Table 1**Test Flame Application Position - Surface Of Decorative Face**

Specimen No.	Ignition Yes/No	Time from start of test for flame tip to reach 150mm (seconds)	Extent of Flame Spread (mm)	Flaming Debris	Glowing	Extent of Damaged Area (mm)	
						Height	Width
1	Yes	Did Not Reach	70	None	None	80	34
2	Yes	Did Not Reach	60	None	None	77	25
3	Yes	Did Not Reach	70	None	None	87	33
4	Yes	Did Not Reach	70	None	None	77	33
5	Yes	Did Not Reach	60	None	None	70	25
6	Yes	Did Not Reach	80	None	None	90	35

Table 2**Test Flame Application Position - Edge Of Decorative Face**

Specimen No.	Ignition Yes/No	Time from start of test for flame tip to reach 150mm (seconds)	Extent of Flame Spread (mm)	Flaming Debris	Glowing	Extent of Damaged Area (mm)	
						Height	Width
1	Yes	Did Not Reach	140	Yes	None	115	65
2	Yes	Did Not Reach	130	Yes	None	120	68
3	Yes	Did Not Reach	140	Yes	None	120	65
4	Yes	Did Not Reach	130	Yes	None	105	68
5	Yes	Did Not Reach	130	Yes	None	110	65
6	Yes	Did Not Reach	140	Yes	None	100	68



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