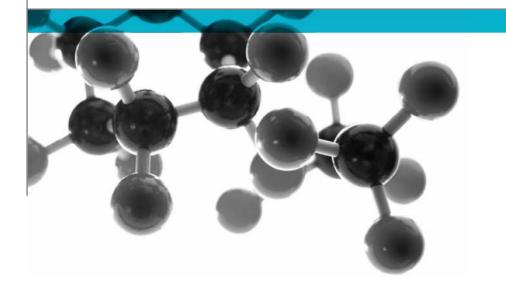
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BS EN ISO 11925-2: 2002



Ignitability Of Building Products Subjected To **Direct Impingement Of Flame** Part 2: Single Flame Source Test

A Report To: R-Tek Manufacturing Ltd. Unit 1 Hamiltownsbawn Industrial Estate Armagh Co. Armagh **BT60 1HW**

Document Reference: WF 189856

Date: 4th February 2010

Issue No.: 1

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0249





Executive Summary

Objective To determine the performance of the following material when tested in accordance with BS EN ISO 11925-2:2002.

Generic Description	Product reference	Thickness	Weight per unit area or density			
Interlocking PVC floor tile tested loose laid over a fibre cement based substrate		Not stated	Not stated			
Individual components used to manufacture composite:						
PVC floor tile for commercial use	"R-Tile Interlocking PVC Floor Tile"	5mm	10kg/m ² SG: 1.45			
Fibre cement board substrate	"NT D4 604"	6mm	1800kg/m ³			
Please see page 5 of this test report for the full description of the product tested						

Test SponsorR-Tek Manufacturing Ltd., Unit 1, Hamiltownsbawn Industrial Estate, Armagh, Co.
Armagh, BT60 1HW

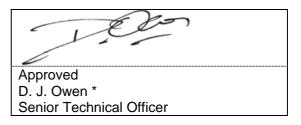
Test Results: On each set of six specimens which were tested, the flame tip did not reach a distance of 150mm before the end of the test.

Date of Test 29th January 2010

Signatories



Responsible Officer S. Deeming * Senior Technical Officer



* For and on behalf of Exova Warringtonfire.

Authorised C. Dean * Operations Manager

Report Issued: 4th February 2010

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BS EN ISO 11925-2: 2002



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Test Details

Purpose of test	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".

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.

- Scope of test 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.
- Fire test study group/EGOLF 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 has 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.
- **Instruction to test** The test was conducted on the 29th January 2010 at the request of R-Tek Manufacturing Ltd., the sponsor of the test.
- Provision of test
specimensThe specimens were supplied by the sponsor of the test.ExovaWarringtonfire
was not involved in any selection or sampling procedure.
- **Conditioning** of The specimens were received on the 8th January 2010.

Prior to test the specimens were stored for 21 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.

Intended Floorcovering application

specimens

Substrate The specimens were tested loose laid over a nominally 6mm thick fibre cement based substrate.

Flame application The flame was applied for 15 seconds. time

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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.

General description		Interlocking PVC floor tile which was tested loose laid over a nominally 6mm thick fibre cement based substrate	
	Product reference	"R-Tile Interlocking PVC Floor Tile"	
	Generic type	PVC floor tile for commercial use	
	Name of manufacturer	R-Tek Manufacturing Ltd.	
	Weight per unit area	10kg/m ² (stated by sponsor)	
		9.20kg/m ² (determined by Exova Warringtonfire)	
	Density	1.45 (specific gravity – stated by sponsor)	
Floor		1.75g/cm ³ (determined by Exova Warringtonfire)	
Covering	Thickness	5mm (stated by sponsor)	
		5.25mm (determined by Exova Warringtonfire)	
	Colour	"Grey" (observed by Exova Warringtonfire)	
	Finish	Textured	
	Flame retardant details	The sponsor of the test has confirmed that no flame	
		retardant additives were utilised in the production of the	
		product / component	
	Trade name	"NT D4 604"	
	Generic type	Fibre cement board	
Substrate	Supplier	Scheerders van de Kerkhove (SVK)	
	Thickness	6mm	
	Density	1800kg/m ³	
Brief descrip process of the	otion of manufacturing floor covering	Injection moulded	

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Test Results

Number of specimens tested 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 test results of 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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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	50	None	None	31	20
2	Yes	Did not reach	60	None	None	32	23
3	Yes	Did not reach	60	None	None	32	23
4	Yes	Did not reach	70	None	None	33	21
5	Yes	Did not reach	80	None	None	32	20
6	Yes	Did not reach	70	None	None	34	21

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	20	None	None	15	30
2	Yes	Did not reach	40	None	None	30	24
3	Yes	Did not reach	40	None	None	23	21
4	Yes	Did not reach	50	None	None	22	15
5	Yes	Did not reach	40	None	None	23	14
6	Yes	Did not reach	30	None	None	29	21

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Revision History

Revised By:

Reason for Revision:

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