

Exova Warringtonfire  
Holmesfield Road  
Warrington  
WA1 2DS  
United Kingdom

T : +44 (0) 1925 655116  
F : +44 (0) 1925 655419  
E : warrington@exova.com  
W: www.exova.com



# BS EN ISO 11925-2: 2010



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

A Report To: Maclellan Rubber

Document Reference: Additional Test Report No. 405184

Date: 1st November 2018

Issue No.: 1

Page 1

Testing  
Advising  
Assuring



## Executive Summary

**Objective** To determine the performance of the following product when tested in accordance with BS EN ISO 11925-2:2010.

Generic Description	Product reference	Thickness	Weight per unit area or density
Interlocking safety matting which was tested loose laid over a 6mm thick fibre cement board substrate	"Modu-Mat" (flooring only)	14mm (flooring only)	2.37kg/m <sup>2</sup> (flooring only)
<b>Individual components used to manufacture composite:</b>			
Interlocking safety matting	"Modu-Mat"	14mm	1.48 g/m <sup>3</sup>
Fibre cement board substrate	"NT D4 604"	6mm	1900 ± 200kg/m <sup>3</sup>
<b>Please see page 6 of this test report for the full description of the product tested</b>			

**Test Sponsor** Maclellan Rubber, Unit 16 Planetary Ind. Est., Planetary Road, Wolverhampton, WV13 3XA


**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** 18<sup>th</sup> April 2012

This test report is additional to that issued as 317681 (Issue 2) dated the 15<sup>th</sup> May 2012, incorporating review report 406590 dated 1st November 2018 and has been issued at the request of the sponsor. The original test report remains valid and is not replaced by this additional test report. The product referred to in the original report and this additional test report has not been re-tested since the original test and neither has a technical review of the original test report resulting in any technical changes been carried out.

The original product reference has been removed and the reference "Modu-Mat" has been inserted. The original sponsor's name has also been removed and "Maclellan Rubber" has been inserted. The sponsor of the test has stated that the material described in this additional report is identical to the material which was tested. Both the original and the alternative trade names of the product and the original and alternative names and addresses of the sponsor have been documented and the documentation is maintained in the confidential file covering this investigation

## Signatories

  
 Responsible Officer  
 T. Mort \*  
 Senior Technical Officer

  
 Authorised  
 S. Deeming \*  
 Business Unit Head

\* For and on behalf of **Exova Warringtonfire**.

Report Issued: 1st November 2018

This version of the report has been produced from a .pdf format electronic file that has been provided by **Exova Warringtonfire** to the sponsor of the report and must only be reproduced in full. Extracts or abridgements of reports must not be published without permission of **Exova Warringtonfire**.

Document No.: Additional Test Report No. 405184

Page No.: 2 of 8

Author: S Deeming

Issue Date: 1st November 2018

Client: Maclellan Rubber

Issue No.: 2



<b>CONTENTS</b>	<b>PAGE NO.</b>
<b>EXECUTIVE SUMMARY .....</b>	<b>2</b>
<b>SIGNATORIES.....</b>	<b>2</b>
<b>TEST DETAILS.....</b>	<b>4</b>
<b>DESCRIPTION OF TEST SPECIMENS.....</b>	<b>5</b>
<b>TEST RESULTS .....</b>	<b>6</b>
<b>TABLE 1 .....</b>	<b>7</b>
<b>TABLE 2 .....</b>	<b>7</b>
<b>REVISION HISTORY .....</b>	<b>8</b>



## Test Details

<b>Purpose of test</b>	<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 11925-2:2010 "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 11925-2:2010 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>
<b>Scope of test</b>	<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>
<b>Fire test study group/EGOLF</b>	<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 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.</p>
<b>Instruction to test</b>	<p>The test was conducted on the 18<sup>th</sup> April 2012 at the request of the original sponsor of the test.</p>
<b>Provision of test specimens</b>	<p>The specimens were supplied by the original sponsor of the test. <b>Exova Warringtonfire</b> was not involved in any selection or sampling procedure.</p>
<b>Conditioning of specimens</b>	<p>The specimens were received on the 5<sup>th</sup> April 2012.</p> <p>Prior to test the specimens were conditioned to constant mass at a temperature of <math>23 \pm 2^{\circ}\text{C}</math> and a relative humidity of <math>50 \pm 5\%</math>.</p>
<b>Intended application</b>	<p>Floor covering</p>
<b>Substrate</b>	<p>The specimens were tested loose laid over a fibre cement board substrate.</p>
<b>Flame application time</b>	<p>The flame was applied for 15 seconds</p>

Document No.:	Additional Test Report No. 405184	Page No.:	4 of 8
Author:	S Deeming	Issue Date:	1st November 2018
Client:	MacLellan Rubber	Issue No.:	2



## Description of Test Specimens

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

General description		Interlocking safety matting which was tested loose laid over a fibre cement board substrate
Flooring Tile	Product reference	"Modu-Mat"
	Detailed description	Recycled polyvinyl chloride (PVC)
	Name of manufacturer	<b>See Note 1 Below</b>
	Weight per unit area	2.37kg/m <sup>2</sup> (determined by <b>Exova Warringtonfire</b> )
	Thickness	14mm (stated by sponsor)
	Colour	"Black" (observed by <b>Exova Warringtonfire</b> )
	Flame retardant details	<b>See Note 2 Below</b>
Substrate	Trade name	"NT D4 604"
	Generic Description	Fibre cement board
	Supplier	Scheerders van de Kerkhove (SVK)
	Overall thickness	6mm
	Overall density	1900 ± 200kg/m <sup>3</sup>
Brief description of manufacturing process		<b>See Note 2 Below</b>

**Note 1: The sponsor of the test has provided this information but at the specific request of the sponsor this information has been removed from the test report and is instead held on the confidential file relating to this investigation.**

**Note 2: The sponsor was unwilling to provide this information.**

## 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.

This report may only be reproduced in full. Extracts or abridgements shall not be published without permission of **Exova Warringtonfire**.

Document No.:	Additional Test Report No. 405184	Page No.:	6 of 8
Author:	S Deeming	Issue Date:	1st November 2018
Client:	MacLellan Rubber	Issue No.:	2



**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	52	21
2	Yes	Did not reach	40	None	None	43	18
3	Yes	Did not reach	50	None	None	51	23
4	Yes	Did not reach	50	None	None	44	20
5	Yes	Did not reach	30	None	None	50	24
6	Yes	Did not reach	40	None	None	52	20

**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	50	None	None	44	18
2	Yes	Did not reach	50	None	None	40	24
3	Yes	Did not reach	40	None	None	41	23
4	Yes	Did not reach	50	None	None	38	19
5	Yes	Did not reach	30	None	None	34	24
6	Yes	Did not reach	40	None	None	36	22

## Revision History

Issue No :	Re-issue Date :
Revised By:	Approved By:
Reason for Revision:	

Issue No :	Re-issue Date :
Revised By:	Approved By:
Reason for Revision:	

