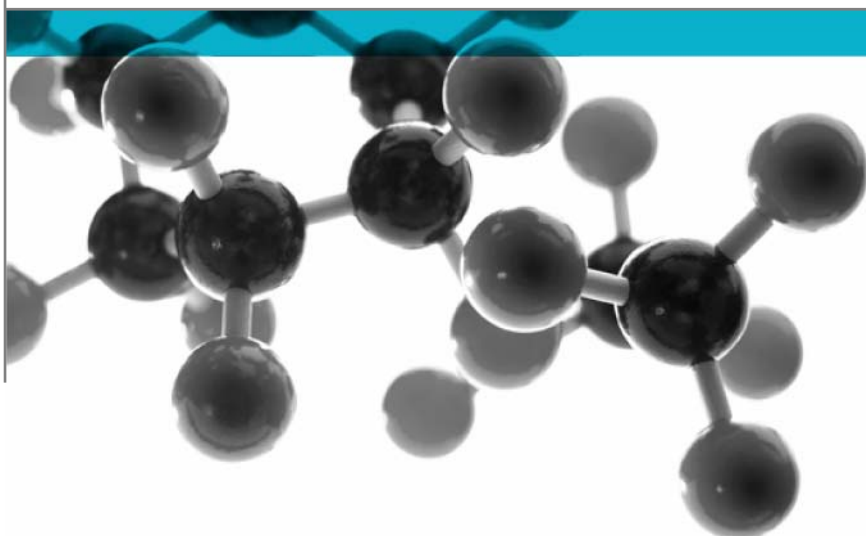


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BS EN ISO 11925-2: 2010



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

A Report To: Renco Nets Limited

Document Reference: 342759

Date: 31st July 2014

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
Polyester netting	"Flame Retardant Anticlimb Netting"	1.18mm*	222.5 g/m ² *
* determined by Exova Warringtonfire			
Please see page 5 of this test report for the full description of the product tested			


Test Sponsor Renco Nets Limited, King Edward Street, Grimsby, NE Lincolnshire, DN31 3LA

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 16th July 2014

Signatories


 Responsible Officer
 K. Hughes *
 Technical Officer


 Authorised
 S. Deeming*
 Operations Manager

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

Report Issued: 31st July 2014

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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 11925-2:2010 "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>
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 16th July 2014 at the request of Renco Nets Limited the sponsor of the test.</p>
Provision of test specimens	<p>The specimens were supplied by the sponsor of the test. Exova Warringtonfire was not involved in any selection or sampling procedure.</p>
Conditioning of specimens	<p>The specimens were received on the 10th July 2014</p> <p>Prior to test the specimens were stored for 2 days in a standard atmosphere as defined in BS EN 13238:2010 Conditioning Procedures and General Rules for selection of substrates until constant mass was achieved.</p>
Intended application	<p>Anticlimb netting</p> <p>Due to the total area of holes on the surface exceeding 30%, the specimens were folded so that the representative total area of holes did not exceed 30% of the exposed surface.</p>
Substrate	<p>The specimens were tested without a substrate present.</p>
Flame application time	<p>The flame was applied for 30 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.

General description	Polyester netting
Generic type	Polyester
Product reference	"Flame Retardant Anticlimb Netting"
Name of manufacturer	Renco Nets Limited
Colour reference	"Black"
Thickness	250 / 1000 Denier (stated by sponsor) 1.18mm (determined by Exova Warringtonfire)
Weight per unit area	170g/m ² ±5% (stated by sponsor) 222.5 g/m ² (determined by Exova Warringtonfire)
Cell dimensions	8mm
Flame retardant details	See Note 1 Below
Brief description of manufacturing process	See Note 1 Below

Note 1: 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 one of the two identical faces exposed.

Six specimens were tested, each of which were subjected to edge exposure to flame with one of the two identical faces 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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Table 1
Test Flame Application Position - Surface of one of the two identical faces

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	40	None	None	90	10
2	Yes	Did not reach	30	None	None	95	10
3	Yes	Did not reach	40	None	None	70	10
4	Yes	Did not reach	45	None	None	80	10
5	Yes	Did not reach	40	None	None	90	10
6	Yes	Did not reach	45	None	None	90	10

Table 2
Test Flame Application Position - Edge of one of the two identical faces

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	50	20
2	Yes	Did not reach	40	None	None	55	20
3	Yes	Did not reach	45	None	None	45	20
4	Yes	Did not reach	50	None	None	50	20
5	Yes	Did not reach	50	None	None	45	20
6	Yes	Did not reach	50	None	None	45	20

Revision History

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Revised By:	Approved By:
Reason for Revision:	

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