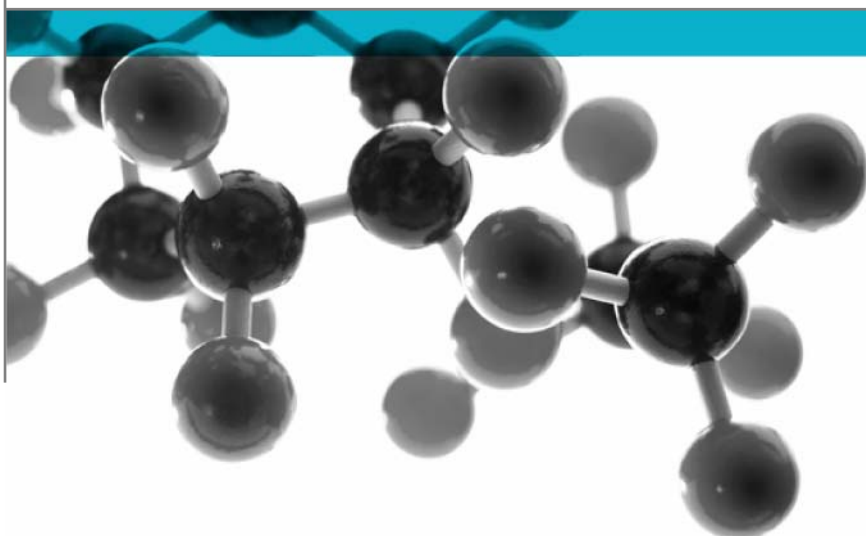


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# BS EN ISO 11925-2: 2010



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

A Report To: Locusrite Limited

Document Reference: 326096

Date: 7<sup>th</sup> March 2013

Issue No.: 2

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
Powder coated angle bead	"GPCAB30"	0.42mm	0.92kg/m <sup>2</sup>
<b>Individual components used to manufacture composite:</b>			
Organic powder coating	"PCRAL9016"	100µm	Not stated
Galvanised zinc steel	"PGSC04"	0.4mm	0.90kg/m <sup>2</sup>
<b>Please see page 5 of this test report for the full description of the product tested</b>			

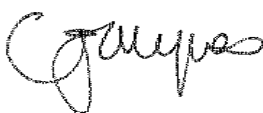
**Test Sponsor** Locusrite Limited, 8A Galliford Road, Causeway Industrial Estate, Maldon, Essex CM9 4XD


**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** 12<sup>th</sup> February 2013

**Reason for revision** This document replaces issue 1 (dated 14<sup>th</sup> February 2013) of the same number which has been withdrawn. Information for the intended application has been changed

## Signatories

  
 Responsible Officer  
 C. Jacques\*  
 Testing Officer

  
 Approved  
 T. Mort \*  
 Senior Technical Officer

  
 Authorised  
 M. Dale \*  
 Deputy Operations Manager

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

*Report Issued: 14<sup>th</sup> February 2013*

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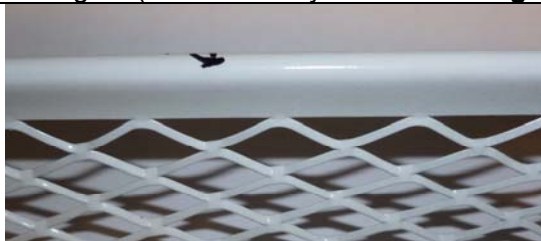
## Test Details

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<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>	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.
<b>Fire test study group/EGOLF</b>	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.
<b>Instruction to test</b>	The test was conducted on the 12 <sup>th</sup> February 2013 at the request of Locusrite Limited, the sponsor of the test.
<b>Provision of test specimens</b>	The specimens were supplied by the sponsor of the test. <b>Exova Warringtonfire</b> was not involved in any selection or sampling procedure.
<b>Conditioning of specimens</b>	<p>The specimens were received on the 6<sup>th</sup> February 2013.</p> <p>Prior to test the specimens were stored for 6 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>
<b>Intended application</b>	Plaster / render beads
<b>Substrate</b>	The specimens were tested without a substrate present.
<b>Flame application time</b>	The flame was applied for 30 seconds

## 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		Powder coated angle bead
Product reference of composite		"GPCAB30"
Name of manufacturer of composite		Locusrite Limited
Thickness of composite		0.42mm (stated by sponsor) 0.44mm (determined by <b>Exova Warringtonfire</b> )
Weight per unit area of composite		0.92kg/m <sup>2</sup> (stated by sponsor) 1.29kg/m <sup>2</sup> (determined by <b>Exova Warringtonfire</b> )
Picture of specimen		
Coating	Generic type	Organic powder coating
	Product reference	"PCRAL9016"
	Name of manufacturer	Locusrite Limited
	Colour reference	"RAL 9016" (stated by sponsor) "White" (observed by <b>Exova Warringtonfire</b> )
	Number of coats	1
	Thickness per coat	100 microns
	Application method	Spray
	Flame retardant details	<b>See Note 1 Below</b>
	Curing process per coat	10 minutes at 160 degrees
Metal	Generic type	Galvanised zinc steel
	Product reference	"PGSC04"
	Name of manufacturer	Arcelormittal SSC
	Thickness	0.4mm
	Density / weight per unit area	0.90kg/m <sup>2</sup>
	Colour reference	Silver
	Flame retardant details	<b>See Note 1 Below</b>
Brief description of manufacturing process		Steel coil is slit through steel blades and the metal expanded to correct size/shape. The formed expanded metal is then processed through a roll former to bend to the required shape.

**Note 1: The sponsor of the test has confirmed that no flame retardants were used in the production of this product.**

## Test Results

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### Number of specimens tested

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

Six specimens were tested, each of which were subjected to edge exposure to flame with the coated 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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**Table 1****Test Flame Application Position - Surface Of Coated 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	No	Did not reach	Nil	None	None	2	5
2	No	Did not reach	Nil	None	None	10	4
3	No	Did not reach	Nil	None	None	5	4
4	No	Did not reach	Nil	None	None	12	5
5	No	Did not reach	Nil	None	None	14	5
6	No	Did not reach	Nil	None	None	8	4

**Table 2****Test Flame Application Position - Edge Of Coated 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	10	None	None	24	20
2	No	Did not reach	Nil	None	None	22	20
3	No	Did not reach	Nil	None	None	18	20
4	No	Did not reach	Nil	None	None	25	21
5	No	Did not reach	Nil	None	None	21	22
6	No	Did not reach	Nil	None	None	26	21

## Revision History

Issue No : 2	Re-issue Date : 7 <sup>th</sup> March 2013
Revised By: C. Jacques	Approved By: T. Mort
Reason for Revision: This document replaces issue 1 (dated 14 <sup>th</sup> February 2013) of the same number which has been withdrawn. Information for the intended application has been changed	

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