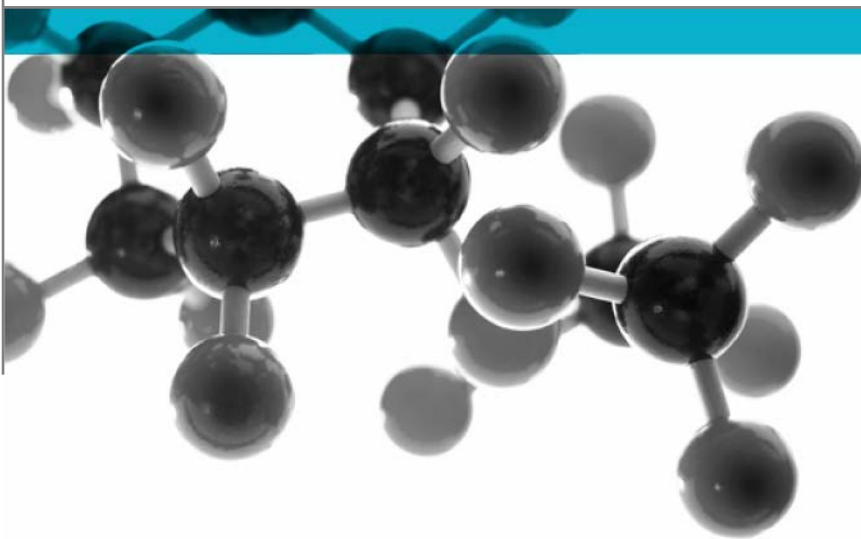


# Class 0 Summary Report



**Including Opinion Of Compliance With The Requirements For A Class 0 Surface As Defined In Paragraph A13(b) Of Approved Document B (Volumes 1 & 2), (2006 Edition) 'Fire Safety' To The Building Regulations 2000**

**Date:** 16<sup>th</sup> June 2016

**Issue No.:** 1

Page 1

A Report To: Baumit Ltd

Document Reference: 366429 & 366430

**Testing  
Advising  
Assuring**

## Executive Summary

### Objective

To assess the results of tests to BS 476:Part 6:1989+A1: 2009 and BS 476:Part 7:1997, obtained on specimens of the following product and to provide an opinion of compliance with the requirements for a Class 0 surface, as defined in Approved Document B to the Building Regulations 2000.

Generic Description	Product reference	Thickness	Weight per unit area or density
External thermal insulated composite system	"StarSystem EPS 15/5082"	43mm	18kg/m <sup>2</sup>
<b>Individual components used to manufacture composite:</b>			
Coating	"Baumit SilikonTop K1.5"	1.5mm	2.5kg/m <sup>2</sup>
Basecoat / contact mortar	"Baumit StarContact WHITE"	3mm	Not stated
Scrim	"Baumit StarTex Fine"	Unwilling to provide	160g/m <sup>2</sup>
EPS	"Jablite HP"	25mm	16.5kg/m <sup>2</sup>
Plywood	No specific product reference	12mm	8kg/m <sup>2</sup>
<b>Please see pages 5 &amp; 6 of this test report for the full description of the product tested</b>			

### Test Sponsor

Baumit Ltd, Unit 2 Westmead, New Hythe Lane, Aylesford, Kent, ME15 0ER


### Opinion:


We consider the results of the tests to BS 476:Part 6:1989+A1: 2009 and BS 476:Part 7: 1997, demonstrate that the product, as tested, complies with the requirements for Class 0, as defined in paragraph A13(b) of Approved Document B, 'Fire Safety', to the Building Regulations 2000.

### Date of Test

27<sup>th</sup> May 2016

## Signatories


Responsible Officer C. Meachin * Technical Officer


Authorised S. Deeming * Business Unit Head

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

Report Issued: 16<sup>th</sup> June 2016

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<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>CLASSIFICATION .....</b>	<b>7</b>
<b>REVISION HISTORY .....</b>	<b>8</b>

## Test Details

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**Terms Reference**      **Of** To assess the results of tests to BS 476:Part 6:1989+A1: 2009 and BS 476:Part 7:1997, obtained on specimens of a product and to provide an opinion of compliance with the requirements for a Class 0 surface, as defined in Approved Document B to the Building Regulations 2000.

**Introduction**      Specimens of a product have been tested in accordance with the test methods specified in BS 476: Part 6: 1989+A1: 2009 'Method of test for fire propagation for products' and BS 476: Part 7: 1997 'Method of test to determine the classification of the surface spread of flame of products'. The results of the tests are fully reported in the **Exova Warringtonfire** test reports No's. 366429 and 366430.

This summary test report has been prepared at the request of the sponsor and relates the results of the tests to the requirements for a Class 0 surface of a material or composite product, as defined in paragraph A13(b) of Approved Document B, 'Fire Safety', to the Building Regulations 2000.

This summary should be read in conjunction with, and not accepted as a substitute for, the **Exova Warringtonfire** test reports No's. 366429 and 366430. Those test reports may include additional information which may be relevant to the assessment of the potential fire hazard of the product.

**Face subjected to tests**      The specimens were mounted in the test positions such that the coated face was exposed to the heating conditions of the tests.

**Results of test**      The following results were obtained for the specimens, which were tested.

<b>BS 476: Part 6: 1989+A1: 2009</b>	Fire propagation index, I	=	1.9
	subindex, $i_1$	=	0.4
	subindex, $i_2$	=	1.3
	subindex, $i_3$	=	0.2

**BS 476: Part 7:  
1997**      Class 1 surface spread of flame

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

## 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		External thermal insulated composite system
Product reference		"StarSystem EPS 15/5082"
Name of manufacturer		Baumit GmbH
Thickness		43mm (stated by sponsor) 44.1mm (determined by <b>Exova Warringtonfire</b> )
Weight per unit area		18kg/m <sup>2</sup> (stated by sponsor) 17.4kg/m <sup>2</sup> (determined by <b>Exova Warringtonfire</b> )
Product configuration		<ul style="list-style-type: none"> <li>• Coating</li> <li>• Basecoat mortar</li> <li>• Scrim (embedded in basecoat)</li> <li>• Basecoat mortar</li> <li>• EPS</li> <li>• Contact mortar</li> <li>• Plywood</li> </ul>
Coating	Generic type	<b>See Note 1 Below</b>
	Product reference	"Baumit SilikonTop K1.5"
	Name of manufacturer	Baumit GmbH
	Colour reference	"General Material – 0019"
	Number of coats	One
	Application thickness per coat	1.5mm
	Application rate per coat	2.5kg/m <sup>2</sup>
	Specific gravity	<b>See Note 1 Below</b>
	Application method	Trowel applied by hand
	Curing process per coat	24 hours
	Flame retardant details	<b>See Note 2 Below</b>
Basecoat / contact mortar	Generic type	Mineral-based multi-purpose contact mortar
	Product reference	"Baumit StarContact WHITE"
	Name of manufacturer	Baumit GmbH
	Size of aggregate	0.6 - 1.0mm
	Colour reference	"White"
	Application thickness	3mm
	Application method	Trowel applied by hand
	Flame retardant details	<b>See Note 2 Below</b>
Curing process	Air drying for 3 to 5 days dependent on conditions	

Continued on next page

Scrim (embedded in basecoat)	General description	Alkaline resistant glass fibre textile mesh
	Generic type	<b>See Note 1 Below</b>
	Product reference	"Baumit StarTex Fine"
	Name of manufacturer	Baumit GmbH
	Colour reference	<b>See Note 1 Below</b>
	Thickness	<b>See Note 1 Below</b>
	Weight per unit area	160g/m <sup>2</sup>
	Cell dimensions	4 x 4mm
	Flame retardant details	<b>See Note 2 Below</b>
EPS	Generic type	Expanded polystyrene (EPS) insulating boards
	Product reference	"Jablite HP"
	Detailed description	Comprises of expanded beads of low lambda polystyrene preformed and fused together in a steam-heated mould under pressure
	Name of manufacturer	Jablite
	Thickness	25mm
	Density	16.5kg/m <sup>3</sup>
	Colour reference	<b>See Note 1 Below</b>
	Flame retardant details	<b>See Note 2 Below</b>
Plywood	Generic type	External grade plywood
	Product reference	No specific product reference
	Timber species	<b>See Note 3 Below</b>
	Thickness	12mm
	Weight per unit area	8kg/m <sup>2</sup>
	No. of Ply's	Seven
	Trade name of adhesive used to bond the wood together	<b>See Note 3 Below</b>
	Name of supplier	Travis Perkins Plc.
	Flame retardant details	<b>See Note 2 Below</b>
	Cycle details	<b>See Note 3 Below</b>
Brief description of manufacturing process	<p>The ETICS system is constructed in layers. In the case of the sample tested the 12mm plywood is used to represent the substrate. The StarContact WHITE product is mixed with water and then trowel applied to the substrate and used to adhere the EPS boards to the substrate.</p> <p>Once dried StarContact is also applied to the face layer of the EPS, the reinforcing mesh is laid in to the first coat and then a further coat of StarContact is applied to cover the mesh.</p> <p>Once this 'mesh coat' layer has dried the top coat can be applied using a trowel and finished with a plastic float.</p>	

**Note 1: The sponsor was unwilling to provide this information.**

**Note 2: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.**

**Note 3: The sponsor was unable to provide this information.**

## Classification

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### Opinion

We consider the results of the tests detailed above demonstrate that the product, as tested, complies with the requirements for Class 0, as defined in paragraph A13(b) of Approved Document B, 'Fire Safety', to the Building Regulations 2000.

### Validity of opinion

This opinion is based on the requirements of the Building Regulations at the date of this report. If the Building Regulations are revised or amended in any way subsequent to that date, care must be taken to ensure that this opinion is not invalidated by those revisions or amendments.

The opinion has been formulated on the assumption that the specimens are representative of the product in practice. **Exova Warringtonfire** was not involved in any sampling or selection procedures which would confirm this or in any audit testing which would provide confidence in the consistency of the product in the tests.

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## Revision History

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