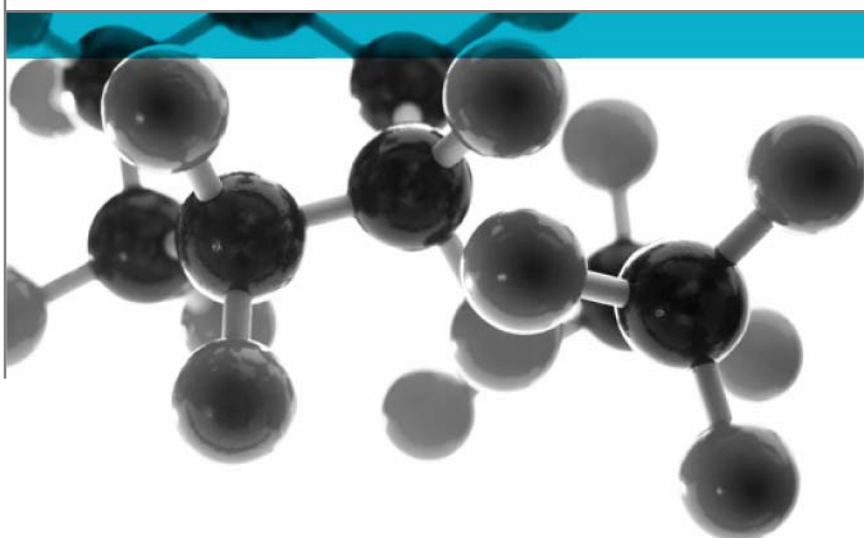


# Class 0 Summary Report



**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:** 20<sup>th</sup> November 2012

**Issue No.:** 1

Page 1

A Report To: Sika Limited

Document Reference: 323721 & 323722

**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.

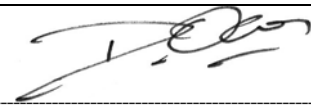

Generic Description	Product reference	Thickness	Weight per unit area or density
A three-coat coating system applied to a fibre cement board substrate	"Sikagard 550W"	8.78mm*	16.49kg/m <sup>2</sup> *
<b>Individual components used to manufacture composite:</b>			
Coating product (test face)	"Sikagard 550W"	Not stated	2 x 0.25-0.35kg/m <sup>2</sup>
Primer coating	"Sikagard 552 W Aquaprimer"	Not stated	0.10kg/m <sup>2</sup>
Substrate	"NT D4 604"	8mm	1800kg/m <sup>3</sup>
<b>*determined by Exova Warringtonfire</b>			
<b>Please see page 5 of this test report for the full description of the product tested</b>			

**Test Sponsor** Sika Limited, Watchmead, Welwyn Garden City, Hertfordshire, AL7 1BQ

**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** 9<sup>th</sup>, 13<sup>th</sup> & 14<sup>th</sup> November 2012

## Signatories

	
Responsible Officer D. J. Owen * Senior Technical Officer	Authorised T.Mort * Senior Technical Officer

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

Report Issued: 20<sup>th</sup> November 2012

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**.

<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>6</b>
<b>REVISION HISTORY .....</b>	<b>7</b>

## Test Details

---

**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. 323721 and 323722.

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. 323721 and 323722.

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</b>	Fire propagation index, I	=	1.1
	subindex, $i_1$	=	0.0
	subindex, $i_2$	=	0.1
	subindex, $i_3$	=	1.0

**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		A three-coat coating system applied to a fibre cement board substrate
Thickness of composite		8.78mm (determined by <b>Exova Warringtonfire</b> )
Weight per unit area of composite		16.49kg/m <sup>2</sup> (determined by <b>Exova Warringtonfire</b> )
Product reference of coating system		"Sikagard 550W"
Name of manufacturer of coating system		Sika Limited
Thickness of coating system		Between 0.4 and 0.5mm
Final coating product (test face)	Generic type	Water based acrylic
	Product reference	"Sikagard 550 W"
	Name of manufacturer	Sika Limited
	Colour reference	"Grey"
	Number of coats	Two
	Application rate per coat	Between 0.25kg/m <sup>2</sup> and 0.35kg/m <sup>2</sup>
	Specific gravity	1.40
	Application method	Roller applied
	Flame retardant details	<b>See Note 1 Below</b>
	Curing process per coat	Air dry
First coating product	Generic type	Water based primer
	Product reference	"Sikagard 552 W Aquaprimer"
	Name of manufacturer	Sika Limited
	Colour reference	"Clear"
	Number of coats	One
	Application rate per coat	0.10kg/m <sup>2</sup>
	Specific gravity	1.00
	Application method	Roller applied
	Flame retardant details	<b>See Note 1 Below</b>
	Curing process per coat	Air dry
Substrate	Generic type	Fibre cement board
	Product reference	"NT D4 604"
	Name of manufacturer	Scheerders van de Kerkhove (SVK)
	Thickness	8mm
	Density	1800kg/m <sup>3</sup>
Flame retardant details		The substrate is inherently flame retardant
Brief description of manufacturing process		Roller application of coatings to substrate

**Note 1: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.**

## Classification

---

### 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.

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

## 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:	