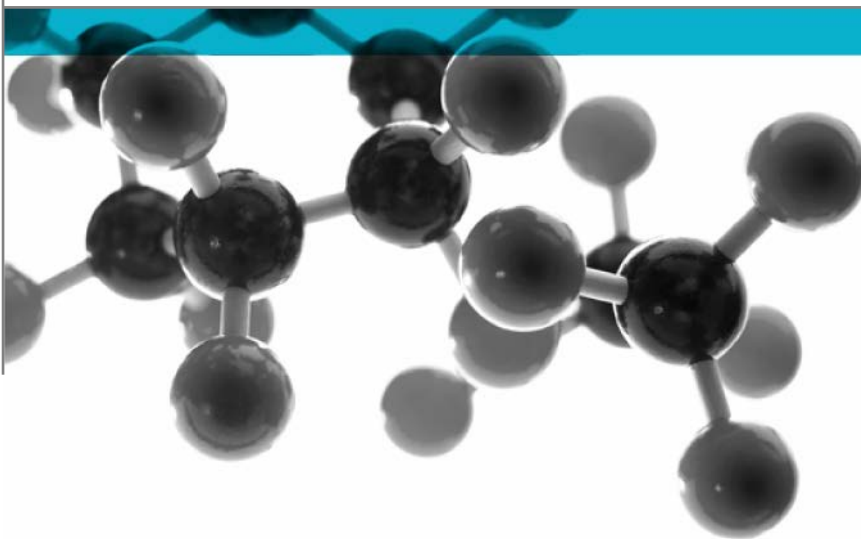


# Class 0 Summary Report



**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:** 30<sup>TH</sup> May 2013

**Issue No.:** 1

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A Report To: Lenzing Plastics GmbH

Document Reference: 328689 & 328690

**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 / application rate	Weight per unit area or density
Insulation cladding material bonded to calcium silicate board utilising Fos-Stik spray adhesive	"Lenzing Jacketing 424 / 428"	12.62mm *	11.69kg/m <sup>2</sup> *
<b>Individual components used to manufacture composite:</b>			
Coating product (test face)	Unwilling to provide	Unwilling to provide	Unwilling to provide
Aluminium layer	"Aluminium foil"	Unwilling to provide	2.7g/cm <sup>3</sup>
PVC film	Unwilling to provide	Unwilling to provide	Unwilling to provide
Adhesive	"Styrene Butadiene Rubber (SBR)"	40 g/m <sup>2</sup>	Not stated
Substrate	"Promat Brandschutzplatten Promatect-H"	12mm	870kg/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** Lenzing Plastics GmbH, Werkstrasse 2, 4860 Lenzing, Austria.

**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** 10<sup>th</sup> & 15<sup>th</sup> May 2013

## Signatories

	
Responsible Officer C. Meachin * Acting Testing Officer	Authorised T. Mort * Senior Technical Officer

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

Report Issued: 30<sup>th</sup> May 2013

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## 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. 328689 and 328690.

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. 328689 and 328690. 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 aluminium foil 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	=	10.1
	subindex, $i_1$	=	4.6
	subindex, $i_2$	=	4.9
	subindex, $i_3$	=	0.6

**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		Insulation cladding material bonded to calcium silicate board utilising Fos-Stik spray adhesive
Product reference of overall composite		"Lenzing Jacketing 424 / 428"
Name of manufacturer of overall composite		Lenzing Plastics, 4860 Lenzing, Austria
Overall thickness of composite		12.46mm (determined by <b>Exova Warringtonfire</b> )
Overall weight per unit area of composite		11.4kg/m <sup>2</sup> (determined by <b>Exova Warringtonfire</b> )
Overall thickness of cladding material		330 µm
Overall weight per unit area of cladding material		440 g/m <sup>2</sup>
Coating product (test face)	Generic type	Thermoplastic film <b>See Note 1 below</b>
	Product reference	<b>See Note 1 below</b>
	Name of manufacturer	<b>See Note 1 below</b>
	Thickness	<b>See Note 1 below</b>
	Density / weight per unit area	<b>See Note 1 below</b>
	Colour reference	<b>See Note 1 below</b>
	Flame retardant details	<b>See Note 2 below</b>
	Curing process	<b>See Note 1 below</b>
Aluminium layer	Generic type	Aluminium Layer
	Product reference	"Aluminium foil"
	Name of manufacturer	<b>See Note 1 below</b>
	Thickness	<b>See Note 1 below</b>
	Density	2.7 g/cm <sup>3</sup>
	Colour reference	"Silver"
	Flame retardant details	<b>See Note 2 below</b>
PVC film	Generic type	Polyvinyl chloride (PVC) film
	Product reference	<b>See Note 1 below</b>
	Name of manufacturer	<b>See Note 1 below</b>
	Thickness	<b>See Note 1 below</b>
	Density / weight per unit area	<b>See Note 1 below</b>
	Colour reference	"Gray"
	Flame retardant details	<b>See Note 2 below</b>
Adhesive	Generic type	Fos-Stik
	Product reference	"Styrene Butadiene Rubber (SBR)"
	Name of manufacturer	Foster
	Colour reference	"Yellow / gold"
	Application rate / thickness	40 g/m <sup>2</sup>
	Application method	Spray
	Flame retardant details	<b>See Note 2 below</b>
	Curing process	Room temperature

- Continued on next page

Substrate	Generic type	Calcium silicate based board
	Product reference	"Promat Brandschutzplatten Promatect-H"
	Name of manufacturer	Promat
	Thickness	12 mm
	Density	870kg/m <sup>3</sup>
	Colour reference	"White"
	Flame retardant details	<b>See Note 2 below</b>
Brief description of manufacturing process		<b>See Note 1 below</b>

**Note 1 - The sponsor was unwilling to provide this or further information.**

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

The description of the specimens as given above is not as detailed as would usually be the case for descriptions included in **Exova Warringtonfire** test reports and the description may not fully comply with the requirements of the test standard. In all other respects however the tests were conducted fully in accordance with the requirements of the test standard and the test results are valid.

## 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

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

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