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#### **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**

#### **Summary of WF Report Numbers**

**186149 & 186150**

#### **Date:**

**25<sup>th</sup> November 2009**

#### **Test Sponsor:**

**Abet Limited**  
70 Roding Road  
London Industrial Park  
London  
E6 4LS

## 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 composite 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
Flame retardant grade Abet Laminati compact grade laminate	"406 Décor"	12±0.6mm	1.35g/cm <sup>3</sup>
<b>Individual components used to manufacture composite:</b>			
Facing - paper	"Dec. 406"	0.18±0.02mm	275-285g/m <sup>2</sup>
Facing - resin	Not stated	Not applicable	Not applicable
Core - paper	Confidential	0.17mm per layer	268-275g/m <sup>2</sup>
Core - resin	Not stated	Not applicable	Not applicable
<b>Please see page 5 of this test report for the full description of the product tested</b>			

**Test Sponsor** Abet Limited, 70 Roding Road, London Industrial Park, London, E6 4LS

**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** 24<sup>th</sup> & 25<sup>th</sup> August 2009

## Signatories



Responsible Officer  
S. Deeming \*  
Senior Technical Officer



Approved  
T. Mort \*  
Senior technical Officer



Authorised  
C. Dean \*  
Operations Manager

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

Report Issued: 25<sup>th</sup> November 2009

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## Test Details

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**Terms Of Reference** 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.186149 and 186150.

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. 186149 and 186150. 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 one of two identical faces 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	=	6.2
	subindex, $i_1$	=	0.0
	subindex, $i_2$	=	1.4
	subindex, $i_3$	=	4.8

<b>BS 476: Part 7: 1997</b>	Class 1 surface spread of flame
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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		Flame retardant grade Abet Laminati compact grade laminate	
Product reference of composite		"406 Décor"	
Name of manufacturer of composite		Abet Laminati SPA	
Thickness of composite		12±0.6mm (stated by sponsor) 12.16mm (determined by <b>Exova Warringtonfire</b> )	
Weight per unit area / density of composite		1.35 g/cm <sup>3</sup> (stated by sponsor) 1.57g/cm <sup>3</sup> (determined by <b>Exova Warringtonfire</b> )	
Colour of laminate		"White"	
Product configuration		<ul style="list-style-type: none"> <li>• Facing</li> <li>• Core</li> <li>• Facing</li> </ul>	
Facing	Paper	Product reference	"Dec. 406"
		Name of manufacturer	<b>See Note 1 below</b>
		Generic type	Decorative paper
		Number of layers	One
		Thickness of each layer	0.18 ± 0.02 mm
		Weight per unit area of each layer	Between 275 and 285g/m <sup>2</sup>
	Resin	Flame retardant details	<b>See Note 2 below</b>
		Product reference	<b>See Note 1 below</b>
		Name of manufacturer	<b>See Note 3 below</b>
		Generic type	Melamine resin
Core	Paper	Amount of resin	<b>See Note 3 below</b>
		Flame retardant details	<b>See Note 1 below</b>
		Product reference	<b>See Note 3 below</b>
		Name of manufacturer	<b>See Note 3 below</b>
		Generic type	<b>See Note 3 below</b>
		Number of layers	68
		Thickness of each layer	0.17 mm
		Weight per unit area of each layer	Between 268 and 275g/m <sup>2</sup>
	Resin	Trade name of flame retardant	<b>See Note 1 below</b>
		Generic type of flame retardant	<b>See Note 3 below</b>
		Amount of flame retardant	<b>See Note 3 below</b>
		Product reference	<b>See Note 1 below</b>
		Name of manufacturer	ABET
		Generic type of resin	Phenol resin
Press details		9MPa, 150°C	

Continued on next page

Brief description of manufacturing process	Material consisting of layers of kraft paper impregnated with thermosetting resins and an outer layer on both sides of decorative paper impregnated with aminoplastic resins; all bonded together by means of high pressure (9 MPa) and heat (150 °C). Fire retardant version.
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**Note 1. The sponsor of the test was unwilling to provide this information.**

**Note 2. The sponsor of the test was unable to provide this information.**

**Note 3. The sponsor of the test has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are instead held on the confidential file relating to this investigation.**

## 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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