

**Class '0' Summary  
Report**

**WF Report Numbers:**

**170761 & 170762**

**Date:**

**27<sup>th</sup> March 2008**

**Test Sponsor:**

**Alucoil S.A.**



**SUMMARY OF WF No's. 170761 & 170762**  
**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**

**Sponsored By**

**Alucoil S.A.**  
**C/Ircio**  
**Parcela R72-75**  
**Poligono Industrial de Bayas**  
**Miranda de Ebro**  
**Burgos**  
**09200**  
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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 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 'Method of test for fire propagation of products' and BS 476: Part 7: 1997 'Surface spread of flame test for materials'. The results of the tests are fully reported in the **Bodycote warringtonfire** test reports No's. 170761 and 170762.

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 **Bodycote warringtonfire** test reports No's. 170761 and 170762. Those test reports may include additional information which may be relevant to the assessment of the potential fire hazard of the product.

The specimens were tested with an airgap positioned behind the product as described in test report No. 170761 and test report No. 170762.

**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.

**BS 476: Part 6:  
1989**

Fire propagation index, I	=	0.1
subindex, $i_1$	=	0.0
subindex, $i_2$	=	0.0
subindex, $i_3$	=	0.1

**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. The specimens were supplied by the sponsor of the test. **Bodycote warringtonfire** was not involved in any selection or sampling procedure.

General description		A two coat, decorative coating system, applied to one face of an aluminium faced sandwich panel with an LDPE core
Product reference of coated composite		"LARSON"
Thickness of coated product		4 ± 0.2mm (stated by sponsor) 4.15mm (determined by <b>Bodycote warringtonfire</b> )
Weight per unit area of coated product		5.5 kg/m <sup>2</sup> (stated by sponsor) 5.53kg/m <sup>2</sup> (determined by <b>Bodycote warringtonfire</b> )
Product configuration		<ul style="list-style-type: none"> <li>• Coating (Test face)</li> <li>• Aluminium</li> <li>• Adhesive</li> <li>• Core</li> <li>• Adhesive</li> <li>• Aluminium (Reverse face)</li> </ul>
Coating	Generic type	Polyvinylidene fluoride (PVDF)
	Product reference	<b>See Note 1 below</b>
	Name of manufacturer	<b>See Note 2 below</b>
	Colour	"Grey Metallic"
	Number of coats	Two
	Application thickness per coat	25 ± 4 microns
	Application method	<b>See Note 2 below</b>
	Specific gravity	<b>See Note 2 below</b>
	Flame retardant details	<b>See Note 3 below</b>
	Curing process per coat	<b>See Note 2 below</b>
Aluminium	Product reference	<b>See Note 1 below</b>
	Generic type	Aluminum
	Name of manufacturer	<b>See Note 2 below</b>
	Thickness	0.5mm
	Density	2700kg/m <sup>3</sup>
	Flame retardant details	The substrate is inherently flame retardant
Adhesive	Product reference	<b>See Note 1 below</b>
	Generic type	Anhydrid modified low density polyethylene (LDPE)
	Name of manufacturer	<b>See Note 4 below</b>
	Application rate	0.12g/m <sup>2</sup>
	Application method	Extrusion
	Flame retardant details	<b>See Note 3 below</b>

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Core	Product reference	<b>See Note 1 below</b>
	Generic type	Low density polyethylene (LDPE)
	Name of manufacturer	<b>See Note 4 below</b>
	Colour	"Black"
	Thickness	3mm
	Density	800kg/m <sup>3</sup>
	Flame retardant details	<b>See Note 3 below</b>
Adhesive	Product reference	<b>See Note 1 below</b>
	Generic type	Anhydrid modified low density polyethylene (LDPE)
	Name of manufacturer	<b>See Note 4 below</b>
	Application rate	0.12g/m <sup>2</sup>
	Application method	Extrusion
	Flame retardant details	<b>See Note 3 below</b>
Aluminium	Product reference	<b>See Note 1 below</b>
	Generic type	Aluminum
	Name of manufacturer	<b>See Note 2 below</b>
	Thickness	0.5mm
	Density	2700kg/m <sup>3</sup>
	Flame retardant details	The substrate is inherently flame retardant
	Preparation details	<b>See Note 2 below</b>
Brief description of manufacturing process		<b>See Note 4 below</b>

**Note 1.** 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.

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

**Note 3.** The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product / component.

**Note 4.** The sponsor of the test was unwilling 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. **Bodycote 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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## Signatories

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Responsible Officer S Deeming *


<b>PP. P LYTHGOE</b>
Approved M Dale * Deputy Operations Manager


Authorised C. Dean * Operations Manager

\* For and on behalf of **Bodycote warringtonfire**.

<i>Report Issued: 27<sup>th</sup> March 2008</i>
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