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**SAFETY, STRUCTURES AND FIRE DEPARTMENT**

Reaction to fire

# **REACTION TO FIRE CLASSIFICATION REPORT No. RA11-0032 ACCORDING TO THE EUROPEAN STANDARD NF EN 13501-1**

**Provided the Ordinance from the Ministry of the interior, November 21, 2002.  
Pilot laboratory approved by the Ministry of the Interior (Ordinance of February 5, 1959, amended)  
Seule la version française fait foi.**

**Only the French version is legally acceptable.**

**Valid 5 years from February 09<sup>th</sup>, 2011**

<b>Owner:</b>	<b>ALCOA ARCHITECTURAL PRODUCTS S.A.S. 1 rue du Ballon 68500 MERXHEIM FRANCE</b>
<b>Commercial brand(s):</b>	<b>REYNOBOND® 55 PE Riveted system</b>
<b>Brief description:</b>	<b>Composite panel with polyethylene core covered on both sides with aluminium sheets</b> (see detailed description in paragraph 2)
<b>Date of issue:</b>	<b>February 09<sup>th</sup>, 2011</b>

The indicated classification does not prejudice the conformity of marketed materials with the samples submitted to the tests and under no circumstances, this document should not be considered as type approval or certification of the product in the sense of the L 115-27 article of the consumption's code and of the law dated June 3<sup>rd</sup>, 1994.

If this report is being issued by e-mail and/or on an electronic medium, only the hard copy of the report signed by CSTB shall prevail in the event of a dispute.

The reproduction of this classification report is only authorised in its integral form.

It comprises 4 pages.

**CENTRE SCIENTIFIQUE ET TECHNIQUE DU BATIMENT**

SIÈGE SOCIAL > 84 AVENUE JEAN JAURÈS | CHAMPS-SUR-MARNE | 77447 MARNE-LA-VALLÉE CEDEX 2

TÉL. (33) 01 64 68 84 12 | FAX. (33) 01 64 68 84 79 | [www.cstb.fr](http://www.cstb.fr)

MARNE-LA-VALLÉE | PARIS | GRENOBLE | NANTES | SOPHIA-ANTIPOLIS

## **1. Introduction**

This classification report defines the classification assigned to the above-mentioned product(s) in accordance with the procedures given in the NF EN 13501-1 standard.

## **2. Product description**

Composite panel consisting of two precoated aluminium sheets thermally bonded on either side of a low density polyethylene core.

System tested riveted on metal substructure.

Tested finish: Duragloss® 5000 35 µm.

Overall nominal thickness: 4 mm.

Nominal thickness of the aluminium sheets: 0.5 mm.

Overall nominal weight per unit area: 5.5 kg/m<sup>2</sup>.

Colour: grey.

### 3. Tests reports and tests results in support of this classification

#### 3.1 Tests reports

Name of laboratory	Name of sponsor	Test identification	Test report Nos.	Test method
CSTB	ALCOA ARCHITECTURAL PRODUCTS S.A.S. 1 rue du Ballon 68500 MERXHEIM FRANCE	ES541100127	RA11-0032	EN ISO 11925-2 EN 13823

#### 3.2 Tests results

Test method	Product	Number of tests	Parameters	Results
				Compliance parameters
EN ISO 11925-2 30s surface exposure	REYNOBOND® 55 PE Riveted system	6	Fs > 150 mm Filter paper	Not reached Not ignited
EN ISO 11925-2 30s edge exposure	REYNOBOND® 55 PE Riveted system	6	Fs > 150 mm Filter paper	Not reached Not ignited

Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters : mean value	Compliance parameters
EN 13823	REYNOBOND® 55 PE Riveted system	3	FIGRA <sub>0.2MJ</sub> (W/s)	<b>96.0</b>	-
			FIGRA <sub>0.4MJ</sub> (W/s)	<b>96.0</b>	-
			LFS	-	<b>Not reached</b>
			THR <sub>600s</sub> (MJ)	<b>2.2</b>	-
			SMOGRA(m <sup>2</sup> /s <sup>2</sup> )	<b>6.4</b>	-
			TSP <sub>600s</sub> (m <sup>2</sup> )	<b>47.7</b>	-
			Flaming droplets or debris	-	<b>None</b>

(-) means: not applicable

**4. Classification and direct field of application**

**4.1 Reference of the classification**

This classification has been carried out in accordance with clauses 11.6, 11.9.2 and 11.10.1 of the NF EN 13501-1 standard.

**4.2 Classification**

Fire behaviour		Smoke production		Flaming droplets or debris
<b>B</b>	-	<b>s1</b>	,	<b>d0</b>

**Classification: B - s1, d0**

**4.3 Field of application**

This classification is valid for the following product parameters:

- The system described in paragraph 2.
- An overall nominal thickness of 4 mm.
- An overall nominal weight per unit area of 5.5 kg/m<sup>2</sup>.
- A 35 µm thick Duragloss® 5000 finish.
- A grey colour.

This classification is valid for the following end use conditions:

- System riveted on metal substructure.
- With a minimum air gap of 50 mm.
- Without substrate or with any A1 or A2-s1,d0 class substrate with a density ≥ 820 kg/m<sup>3</sup>.

Champs-sur-Marne, February 09<sup>th</sup>, 2011

**The Technician  
Responsible for the test**

**Olivier BRAULT**

**The Head of Reaction to Fire  
laboratory**

**Gildas CREACH**

.....END OF THE CLASSIFICATION REPORT