

## **REACTION TO FIRE CLASSIFICATION REPORT No. RA07-0182 ACCORDING TO THE EUROPEAN STANDARD NF EN 13501-1**

Notification by the French Government to the European Commission under no 0679.  
Seule la version française fait foi.  
The french version is legally acceptable

**Product standard:**

**NF EN 14782:** Self-supporting metal sheet for roofing, external cladding and internal lining -  
Product specification and requirements

**Owner:** **ALCOA ARCHITECTURAL PRODUCTS SAS**  
**1 rue du Ballon**  
**68500 MERXHEIM**  
**FRANCE**

**Commercial brand(s):** **REYNOLUX®**

**Manufacturing unit(s):** **ALCOA ARCHITECTURAL PRODUCTS SAS**  
**1 rue du Ballon**  
**68500 MERXHEIM**  
**FRANCE**

**Brief description:** **Aluminium sheet coated with a polyester finishing coat**  
(see detailed description in paragraph 2)

**Date of issue:** **May 14<sup>th</sup>, 2007**

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.

## 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

Aluminium sheet coated on the back side with a polyester resin-based backcoat (5 µm) and on the top side with a polyester resin-based primer (6 µm) and polyester finishing coat (from 20 to 29 µm) applied in one or two coats.

Nominal thicknesses of the aluminium sheets: from 0.28 to 2.00 mm.

Polyester finishing coat: Duragloss® 5000.

Colours: white and beige.

## 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 SAS 1 rue du Ballon 68500 MERXHEIM FRANCE	ES541070185	RA07-0182	EN 13823 EN ISO 1716

### 3.2 Tests results

Test method	Product	Number of tests	Parameters	Results		
				Continuous parameters : mean value	Compliance parameters	
EN 13823	REYNOLUX® (0.28 mm)	3	FIGRA <sub>0.2MJ</sub> (W/s)	0.0	-	
			FIGRA <sub>0.4MJ</sub> (W/s)	0.0	-	
			LFS	-	<b>Not reached</b>	
				THR <sub>600s</sub> (MJ)	0.3	-
				SMOGRA(m <sup>2</sup> /s <sup>2</sup> )	0.0	-
				TSP <sub>600s</sub> (m <sup>2</sup> )	19.1	-
			Flaming droplets or debris	-	<b>None</b>	
	REYNOLUX® (2.00 mm)	1 (additional test)	FIGRA <sub>0.2MJ</sub> (W/s)	0.0	-	
			FIGRA <sub>0.4MJ</sub> (W/s)	0.0	-	
			LFS	-	<b>Not reached</b>	
			THR <sub>600s</sub> (MJ)	0.5	-	
			SMOGRA(m <sup>2</sup> /s <sup>2</sup> )	0.0	-	
			TSP <sub>600s</sub> (m <sup>2</sup> )	18.6	-	
			Flaming droplets or debris	-	<b>None</b>	
EN ISO 1716	Non substantial external component Back side	3 (per component)	PCS (MJ/m <sup>2</sup> )	0.2	-	
	Non substantial external component Top side		PCS (MJ/m <sup>2</sup> )	1.0	-	
	Product on its whole	-	PCS (MJ/kg)	1.4	-	

(-) means: not applicable

As the aluminium sheet is conventionally A1 classified, then the non-combustibility test (NF EN ISO 1716) and the determination of the heat of combustion test (NF EN ISO 1182) do not have to be carried out on this substantial component.

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

##### 4.1 Reference of the classification

This classification has been carried out in accordance with clauses 10.8.2 of the NF EN 13501-1 standard.

##### 4.2 Classification

Fire behaviour		Smoke production		Flaming droplets or debris
<b>A1</b>	-	<b>Not applicable</b>	,	<b>Not applicable</b>

**Classification: A1**

##### 4.3 Field of application

This classification is valid for the following product parameters:

- A range of thicknesses of the aluminium sheets from 0.28 to 2.00 mm.
- A maximum thickness of polyester finishing of 35 µm (primer 6 µm + finishing from 20 to 29 µm) on the top side.
- A maximum thickness of backcoat of 5 µm on the back side.

Champs-sur-Marne, Mat 14<sup>th</sup>, 2007

**The Technician  
Responsible for the test**



**Anne RAYMOND**

**The Head of Reaction to Fire activity**



**Martial BONHOMME**

.....END OF THE CLASSIFICATION REPORT