

Bellaterra: 11th April, 2014
File: **14/8199-319 Part 2**
Petitioner's reference: **ALUCOIL, S.A.**
Pol. Ind. Bayas
C/ Ircio, Parc. R-72-R77
09200 MIRANDA DE EBRO
(Burgos) España



CLASSIFICATION REPORT

1-PRODUCT CHARACTERISTICS

Aluminium honeycomb panel.

Product trade name: LARCORE A2

The product is composed of the following layers:

- Layer 1(exposed face): Silver paint with superficial density of 32.5 g/m².
- Layer 2 and 6: Aluminium with thicknesses of 0.7 mm, density of 2.72 g/cm³ and smooth appearance.
- Layer 3 and 5: Adhesive with superficial density of 180 g/m².
- Layer 4: Aluminium honeycomb with thicknesses of 12.6 mm and 0.056 g/cm³ of density.
- Layer 7: Grey paint with superficial density of 6.55 g/m².

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2- CLASSIFICATION AND DIRECT APPLICATIONS FIELD

This classification has been made in compliance with the procedures provided in Standard UNE-EN 13501-1:2007+A1:2010: "Classification in terms of the behaviour to fire of construction products and building elements. Part 1: Classification made from the data gathered during fire reaction tests".

2.1- Test Reports

Name of Laboratory	Applus – LGAI
Name of Petitioner	ALUCOIL, S.A.
Test Report Number	14/8199-319 Part 1
Testing method	UNE-EN ISO 1716:2011 UNE-EN 13823:2012

2.2- Results of the Tests

Testing method	LARCORE A2			
	CRITERIA CLASS A2	Nº OF TESTS	AVERAGE	COMPLIANCE
UNE-EN ISO 1716:2011	PCS ≤ 3.0 MJ/Kg ^(A)	0 0 0	0.00 0.00 0.00	YES
	PCS ≤ 4.0 MJ/m ² ^(B)	3 3	0.64 0.12	
	PCS ≤ 4.0 MJ/m ² ^(C)	3	3.69	
	PCS ≤ 3.0 MJ/Kg ^(D)	3	1.66	
UNE-EN 13823:2012	FIGRA _{0,2 MJ} ≤ 120 W/s	3	26.41	YES
	LFS < edge of sample	3	< to edge	YES
	THR _{600s} ≤ 7.5 MJ	3	1.14	YES
	CRITERIA subclass 's1'	Nº OF TESTS	AVERAGE	COMPLIANCE
	SMOGR _A ≤ 30 m ² /s ²	3	7.13	YES
	TSP _{600s} ≤ 50 m ²	3	35.23	YES
	CRITERIA subclass 'd0'	Nº OF TESTS	AVERAGE	COMPLIANCE
Fall of droplets/particles in flames within 600 s	3	NO	YES	

- (A) Substantial component
- (B) External non-substantial component
- (C) Internal non-substantial component
- (D) Product as a whole

CLASSIFICATION

With regard to its behaviour when reacting to fire, the product LARCORE A2 is classified as follows:

Behaviour to fire		Smoke production			Droplets in flames	
A2	-	s	1	,	d	0

Fire reaction classification: CLASS A2 s1 d0
This classification is only valid for the final conditions of use described in the present report.

2.3- Field of application

- This classification is valid for the following product parameters:

The classification is only valid for the product characteristics shown.

- This classification is valid for the following final conditions for use:

Architectural façades, transports and industries.

2.4- Restrictions

This classification standard should not be construed as a standard approval or certification of the product.

Responsible of Fire Laboratory
 LGAI Technological Center S.A.

Responsible of Euroclass
 LGAI Technological Center S.A.

The results refer exclusively to the samples tested at the time and under the conditions indicated.

Applus+ guarantees that this task has been carried out in compliance with the requirements of our Quality and Sustainability System, and furthermore, that the contractual terms and legal regulations have been complied with. In the framework of our improvement programme, we would appreciate any comments you may deem appropriate. These should be addressed to the manager who signs this document, or to the Quality Director of Applus+, at the following address: satisfaccion.cliente@appluscorp.com
