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Testing. Advising. Assuring.



Title:

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1: 2007

Notified Body No:

0833

Product Name:

"Alpolic / A2"

Report No:

199787

Issue No:

1

Prepared for:

Mitsubishi Plastics, INC Composite Materials dept. Technical Gr. 1-2-2, Nihonbashi-hongokucho Chuo-ku, Tokyo, 103-0021, Japan

Date:

13th December 2010

1. Introduction

This classification report defines the classification assigned to "Alpolic / A2", a composite light weight panel, in accordance with the procedures given in EN 13501-1:2007

2. Details of classified product

2.1 General

The product, "Alpolic / A2", a composite light weight panel is defined as a composite panel suitable for construction applications, excluding flooring and linear pipe thermal insulation. The product falls within the scope of ETAG 016, Composite Light Weight Panels.

2.2 Product description

The product, "Alpolic / A2", a composite light weight panel, is fully described in the test reports provided in support of classification listed in Clause 3.1. A summarised description is given below.

General description	Self-supporting double skin metal faced composite panel.							
Product reference	Alpolic / A2							
Colour reference	White, Sparkling Red, Sparkling Black							
Product construction								
	Generic type	Fluorocarbon coating						
Top coat	Colour reference	Clear						
	Application method	Coil coating						
	Curing method	Oven cure						
	Flame retardant details	See Note 1						
Base coat	Generic type	Fluorocarbon coating						
	Colour reference	Sparkling Black, Sparkling Red, White						
	Application method	Coil coating						
	Curing method	Oven cure						
	Flame retardant details	See Note 1						
Primer coat	Generic type	polyester coating						
	Colour reference	White						
	Application method	Coil coating						
	Curing method	Oven cure						
	Flame retardant details	See Note 1						
Aluminium facing	Thickness	0.5 mm						
Corrosion control coat	Colour reference	Yellow green						
	Application method	Coil coating						
	Curing method	Oven cure						
	Flame retardant details	See Note 1						
Adhesive	Application method	Heat seal						
	Flame retardant details	See Note 1						
Core material	Generic type	Polyethylene based mineral filled core						
	Thickness	3 mm						
	Flame retardant details	The core composition is of a flame retardant nature						
The tested product was symmetrical around the core								

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.

3. Test reports/extended application reports & test results in support of classification

3.1 Test reports/extended application reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date	
Exova warringtonfire	Mitsubishi Plastics Inc.	193402; 196976	EN 13823	
Exova warringtonfire	Mitsubishi Plastics Inc.	192525; 198700; 198701	EN ISO 1716	
Exova warringtonfire	Mitsubishi Plastics Inc.	199786	EN/TS 15117	

3.2 Test results

		No. tests	Results	
Test method & test number	Parameter		Continuous parameter - mean (m)	Compliance parameters
EN ISO 1716	External coating system	9	1.56 MJ/m ²	Compliant
	Combined internal non-substantial component	6	1.77 MJ/m ²	Compliant
	Core material	6	2.14 MJ/kg	Compliant
	product as a whole		2.02 MJ/kg	Compliant
	FIGRA _{0.2MJ}		10 W/s	Compliant
	THR _{600s}	3	1.6 MJ	Compliant
EN 13823	LFS		N	Compliant
	SMOGRA		1.7 m ² /s ²	Compliant
	TSP _{600s}		41 m ²	Compliant

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1:2007

4.2 Classification

The product, "Alpolic / A2", a composite light weight panel, in relation to its reaction to fire behaviour is classified:

Reaction to fire classification: A2-s1, d0

4.3 Field of application

This classification is valid for the following end use applications:

- i) Wall, ceiling, and facade applications
- ii) Used over any substrate of class A2 or better, including paper faced gypsum plasterboard

This classification is also valid for the following product parameters:

Metal facing material any grade of aluminium Metal facing thickness 0.5 – 1.0 mm nominal

Coating any coating with a PCS value of 1.6 MJ/m² or less

any colour

Core thickness 2 – 3 mm nominal

Product composition within the limits tested Product construction No variation allowed

Joint construction Up to 15 mm width with silicone sealant as tested

Dry joint without sealant

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SIGNED APPROVED

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Frans Paap
Certification Engineer
Janet Murrell
Technical Manager

Technical Manager For and on behalf of: **Exova Warringtonfire**

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