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Testing. Advising. Assuring.

Title:

CLASSIFICATION OF
REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1:2007+A1: 2009.

Notified Body No:

0833

Product Name:

"XTFRA2"

Report No:

304509

Issue No:

2

Prepared for:

Multipanel UK Limited
Unit 6, Site 2
Oak Business Units
Matford
Exeter
Devon
EX2 8FS

Date:

20th April 2011



1. Introduction

This classification report defines the classification assigned to "XTFRA2", a coated composite aluminium panel, in accordance with the procedures given in EN 13501-1:2007

2. Details of classified product

2.1 General

The product, "XTFRA2", a coated composite aluminium panel, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, "XTFRA2", a coated composite aluminium panel, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Coated composite aluminium panel
Product reference of composite		"XTFRA2"
Name of manufacturer		Multipanel UK Limited
Colour reference of composite		"Silver"
Thickness of composite		4mm (stated by sponsor) 4.2mm (determined by Exova Warringtonfire)
Weight per unit area of composite		8.12kg/m ² (stated by sponsor) 7.85kg/m ² (determined by Exova Warringtonfire)
Product configuration		<ul style="list-style-type: none"> • Coating (test face) • Aluminium • Adhesive • Core • Adhesive • Aluminium (reverse face)
Coating (test face)	Product reference	"PPGFS"
	Generic type	Polyvinylidene fluoride (PVDF) coating
	Name of manufacturer	PPG
	Colour reference	"Flash Silver"
	Number of coats	Two
	Specific gravity	See Note 1 below
	Application rate per coat	0.02325kg/m ²
	Application thickness per coat	0.00125mm
	Application method	See Note 1 below
	Curing process	See Note 1 below
Flame retardant details	See Note 1 below	

Continued on next page

Aluminium	Product reference	"3003 H16 Aluminium"
	Generic type	Aluminium
	Name of manufacturer	See Note 1 below
	Thickness	See Note 1 below
	Weight per unit area	1.35kg/m ²
	Flame retardant details	The aluminium is inherently flame retardant
Adhesive	Product reference	"High Molecular Adhesive Film"
	Generic type	Polyethylene (PE)
	Name of manufacturer	Jiangsu Xiecheng Science & Deve.co.,Ltd
	Thickness	0.05mm
	Weight per unit area	0.0465kg/m ²
	Application method	See Note 2 below
	Flame retardant details	See Note 1 below
Core	Product reference	"Inorganic Composite Material"
	Generic type	Mix of calcium carbonate, magnesium hydrate, aluminium hydroxide and flame retardants
	Name of manufacturer	Jiangsu Xiecheng Science & Deve.co.,Ltd
	Thickness	3mm
	Weight per unit area	5.35kg/m ²
	Specific gravity	1.78
Flame retardant details		See Note 1 below
Brief description of manufacturing process		See Note 2 below

Note 1. The sponsor of the test was unable to provide this information.

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

3. Test reports & test results in support of classification

3.1 Test reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Exova warringtonfire	Multipanel UK Limited	WF 304819	EN 13823
Exova warringtonfire	Multipanel UK Limited	WF 303853, WF 303854, WF 303855	EN ISO 1716
Exova warringtonfire	Multipanel UK Limited	WF 304247	EN ISO 1716 (Summery report)



3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN 13823	FIGRA _{0.2MJ}	3	3.64	Compliant
	FIGRA _{0.4MJ}		3.64	Compliant
	THR _{600s}		0.83	Compliant
	LFS		None	Compliant
	SMOGRA		0.00	Compliant
	TSP _{600s}		7.61	Compliant
EN ISO 1716	PVDF coating - PCS (b)	3	0.4856	Compliant
	PVDF coating - PCS (b)	3	0.4856	Compliant
	Aluminium - PCS (a)	Deemed to satisfy (0.00)		Compliant
	Adhesive - PCS (d)	3	2.1749	Compliant
	Core – PCS (a)	3	2.4042	Compliant
	Adhesive - PCS (d)	3	2.1749	Compliant
	Aluminium – PCS (a)	Deemed to satisfy (0.00)		Compliant
	For the product as a whole PCS (e)	Summary result	1.9662	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+A1:2009.

4.2 Classification

The product, "XTFRA2", a coated composite aluminium panel, in relation to its reaction to fire behaviour is classified:

A2

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

The format of the reaction to fire classification for construction products excluding flooring and linear pipe thermal insulation is:

Fire Behaviour		Smoke Production			Flaming Droplets	
A2	-	s	1	,	d	0

i.e. A2 – s1 , d0

Reaction to fire classification: A2-s1, d0

4.3 Field of application

This classification is valid for the following end use applications:

- i) Wall and ceiling applications

This classification is also valid for the following product parameters:

Product thickness	No variation allowed
Product density	No variation allowed
Product composition	No variation allowed
Product construction	No variation allowed

SIGNED

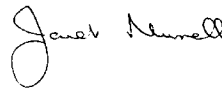


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Matthew Dale

Certification Engineer

APPROVED



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Janet Murrell

Technical Manager
on behalf of **Exova warringtonfire**

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