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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:

"Jesmonite AC730 Flex Metal
Composite"

Report No:

WF 393978

Issue No:

1

Prepared for:

Jesmonite Limited,
Love Lane Industrial Estate,
Bishops Castle,
Shropshire,
SY9 5DW

Date:

8th January 2018



1. Introduction

This classification report defines the classification assigned to "Jesmonite AC730 Flex Metal Composite", a coated polymer glass reinforced concrete product, in accordance with the procedures given in EN 13501-1:2007

2. Details of classified product

2.1 General

The product, "Jesmonite AC730 Flex Metal Composite", a coated polymer glass reinforced concrete product, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, "Jesmonite AC730 Flex Metal Composite", is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Coated glass reinforced polymer concrete
Product reference of overall composite		"Jesmonite AC730 Flex Metal Composite"
Name of manufacturer		Jesmonite Limited
Thickness		10-15mm (stated by sponsor) 14mm (determined by Exova Warringtonfire)
Weight per unit area		19-28kg/m ² (stated by sponsor) 25.84kg/m ² (determined by Exova Warringtonfire)
Coating	Generic type	Metallic coating
	Product reference	"Flex Metal"
	Name of manufacturer	Jesmonite Limited
	Colour reference	"Bronze/Brass/Copper/Silver" "Silver/Grey" (observed by Exova Warringtonfire)
	Number of coats	One
	Application thickness per coat	1.0mm – 1.5mm
	Application rate	0.12-0.24kg/m ²
	Application method	Brush applied into mould
	Curing process per coat	Open air at room temperature
Flame retardant details		See note 1 below
GRC sheet Polymer concrete	Generic type	Polymer concrete
	Product reference	"AC730"
	Detailed composition details	1:1 cement & sand with 3% acrylic
	Name of manufacturer	Jesmonite Limited
	Weight per unit area	18.5 – 27.75kg/m ²
	Colour reference	"White"
	Flame retardant details	

Continued on next page

GRC Sheet	Glass reinforcement	Generic type	Glass fibre
		Product reference	"AR Quadaxial Glass Fibre"
		Name of manufacturer	See note 2 below
		Colour reference	"White"
		Weight per unit area	1.92kg/m ²
		Flame retardant details	See note 1 below
Mounting and fixing details		The specimen was tested in direct contact with the calcium silicate backing board (as specified in EN 13283: 2010)	
Brief description of manufacturing process		See note 3 below	

Note 1: The sponsor of the test has confirmed that no flame retardants were used in the production of this component.

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

Note 3: The sponsor of the test was unable 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	Jesmonite Limited	WF 390203	BS EN 13823
Exova warringtonfire	Jesmonite Limited	WF 393036	BS EN ISO 11925-2

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN 13823	FIGRA _{0.2MJ}	3	10.61	Compliant
	FIGRA _{0.4MJ}		7.24	Compliant
	THR _{600s}		1.17	Compliant
	LFS		None	Compliant
	SMOGRA		0.00	Compliant
	TSP _{600s}		5.11	Compliant
EN ISO 11925-2 (30s exposure - surface)	F _s	6	Nil	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure - edge)	F _s	6	Nil	Compliant
	Flaming droplets/ particles		None	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, "Jesmonite AC730 Flex Metal Composite", a coated polymer glass reinforced concrete product, in relation to its reaction to fire behaviour is classified:

B

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	
B	-	s	1	,	d	0

i.e. **B – s1 , d0**

Reaction to fire classification: B-s1, d0

4.3 Field of application

This classification is valid for the following end use applications:

- i) Construction applications used over any substrate with a density equal to or greater than 870kg/m³, having a minimum thickness of 12mm and a fire performance of A2 or better (excluding paper faced gypsum plasterboard).

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

5. Limitations

This document does not represent type approval or certification of the product.

SIGNED

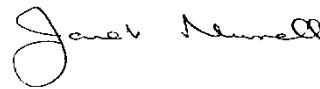


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Katie Williams

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APPROVED



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Janet Murrell

Technical Manager
Technical Department
on behalf of **Exova warringtonfire**