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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:

"AC730"

Report No:

WF 400862

Issue No:

1

Prepared for:

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

Date:

13th June 2018



1. Introduction

This classification report defines the classification assigned to "AC730", 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, "AC730", is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

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

General description		Glass reinforced polymer concrete
Product reference of overall composite		"AC730"
Name of manufacturer		Jesmonite Limited
Thickness		10-15mm (stated by sponsor) 12.3mm (determined by Exova Warringtonfire)
Weight per unit area		25.18kg/m ² (determined by Exova Warringtonfire)
Polymer concrete	Generic type	Polymer concrete
	Product reference	"AC730"
	Detailed composition details	1:1 cement and 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	See note 1 below
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
	Type of weave / cell dimensions	Plain/ 2.5mm
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 394210	EN 13823
Exova warringtonfire	Jesmonite Limited	WF 386251 and WF 386252	EN ISO 1716
Exova warringtonfire	Jesmonite Limited	WF 390673	EN ISO 1716 (Summary 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	3.38	Compliant
	FIGRA _{0.4MJ}		3.38	Compliant
	THR _{600s}		0.33	Compliant
	LFS		None	Compliant
	SMOGRA		0.00	Compliant
	TSP _{600s}		6.62	Compliant
EN ISO 1716	Polymer concrete PCS (a)	3	1.0152 MJ/kg	Compliant
	Glass reinforcement PCS (b)	3	0.0999 MJ/m ²	Compliant
	For the product as a whole PCS (a)(e)	3	1.0135 MJ/kg	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, "AC730", polymer glass reinforced concrete product, 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 thickness 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

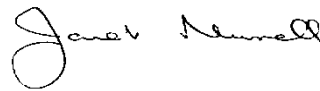


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Matthew Dale

Senior Certification Engineer

APPROVED



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Janet Murrell

Technical Manager
on behalf of **Exova Warringtonfire**

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