Exova Warringtonfire Holmesfield Road Warrington WA1 2DS United Kingdom T:+44 (0) 1925 655 116 F:+44 (0) 1925 655 419 E:warrington@exova.com W:www.exova.com

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:** 

"AC830"

**Report No:** 

WF 402822

**Issue No:** 

1

## Prepared for:

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

Date:

27<sup>th</sup> July 2018



0249

### 1. Introduction

This classification report defines the classification assigned to "AC830", a polymer glass reinforced concrete, in accordance with the procedures given in EN 13501-1:2007

## 2. Details of classified product

#### 2.1 General

The product, "AC830", a polymer glass reinforced concrete, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

### 2.2 Product description

The product, "AC830", 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		"AC830"	
Name of manufacturer		Jesmonite Limited	
Thickness		12-16mm (stated by sponsor)	
		12.69mm (determined by <b>Exova</b>	
		Warringtonfire)	
Weight per unit area		26.98kg/m <sup>2</sup> (determined by <b>Exova</b>	
		Warringtonfire)	
	Generic type	Polymer concrete	
	Product reference	"AC830"	
Dolymor	Detailed composition details	1:1 sand and cement with 2.5% acrylic	
Polymer concrete	Name of manufacturer	Jesmonite Limited	
Concrete	Density	1950kg/m <sup>3</sup>	
	Colour reference	"Grey"	
	Flame retardant details	See note 1 below	
	Generic type	Glass fibre	
	Product reference	"AR Quadaxial Glass Fibre"	
Glass	Name of manufacturer	See note 2 below	
reinforcement	Colour reference	"White"	
	Weight per unit area	0.144kg/m <sup>2</sup>	
	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 394211	BS EN 13823
Exova warringtonfire	Jesmonite Limited	WF 386252, 392680	EN ISO 1716

### 3.2 Test results

Test method &	Parameter	No. tests	Results	
test number			Continuous parameter - mean (m)	Compliance parameters
	FIGRA <sub>0.2MJ</sub>	ν	0.00	Compliant
	FIGRA <sub>0.4MJ</sub>		0.00	Compliant
EN 12022	THR <sub>600s</sub>		0.39	Compliant
EN 13823	LFS		None	Compliant
	SMOGRA		0.00	Compliant
	TSP <sub>600s</sub>		12.68	Compliant
EN 1716	Product as a whole – PCS (e)	3	1.0064 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, ""AC830"", a polymer glass reinforced concrete, in relation to its reaction to fire behaviour is classified:

**A1** 

The format of the reaction to fire classification for construction products is:

# Reaction to fire classification: A1, A1<sub>FL</sub>, A1<sub>L</sub>

## 4.3 Field of application

This classification is valid for the following end use applications:

Construction applications

This classification is also valid for the following product parameters:

Product thickness

12-16mm

Product density
Product composition

No variation allowed

# No variation allowed

#### 5. Limitations

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

**SIGNED** 

ii)

**APPROVED** 

**Katie Williams** 

Junior Certification Engineer Technical Department Janet Murrell

Technical Manager Technical Department

on behalf of Exova warringtonfire

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