

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:

"AC 630"

Report No:

WF 391882

Issue No:

1

Prepared for:

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

Date: 16th November 2017



1. Introduction

This classification report defines the classification assigned to “AC630”, a homogeneously dispersed 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, “AC630”, 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, “AC630”, 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		“AC630”
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)
Polymer concrete	Generic type	Polymer concrete
	Product reference	“AC630”
	Detailed composition details	1:1 cement & sand with 2% acrylic
	Name of manufacturer	Jesmonite Limited
	Weight per unit area	19 – 28.55kg/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	0.144kg/m ²
	Nature of the glass fibre	2.5mm long glass fibre strands homogeneously dispersed throughout the polymer concrete
	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 390204	EN 13823
Exova warringtonfire	Jesmonite Limited	WF 390674	EN ISO 1716

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN 13823	FIGRA _{0.2MJ}	3	3.43	Compliant
	FIGRA _{0.4MJ}		3.42	Compliant
	THR _{600s}		0.83	Compliant
	LFS		None	Compliant
	SMOGRA		0.00	Compliant
	TSP _{600s}		2.88	Compliant
EN ISO 1716	Polymer concrete with homogenously dispersed glass fibres PCS (a)(e)	3	0.7099 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, "AC630", a polymer glass reinforced concrete, 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
- ii) Used over any substrate

This classification is also valid for the following product parameters:

Product thickness	Any thickness allowed
Product density	No variation allowed
Product composition	No variation allowed

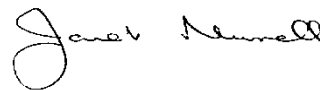
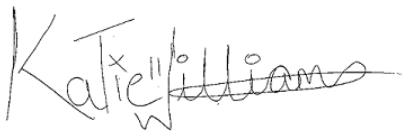
5. Limitations

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

"The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 attestation of conformity and CE marking under the Construction Products Directive. The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate. The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested."

SIGNED

APPROVED



.....
Katie Williams
Certification Engineer

.....
Janet Murrell
Technical Manager
on behalf of **Exova warringtonfire**

This copy has been produced from a .pdf format electronic file that has been provided by Exova Warringtonfire to the sponsor of the report and must only be reproduced in full. Extracts or abridgements of reports must not be published without permission of Exova Warringtonfire. The pdf copy supplied is the sole authentic version of this document. All pdf versions of this report bear authentic signatures of the responsible Exova Warringtonfire staff.