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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:

"AC300"

Report No:

WF 399128

Issue No:

1

Prepared for:

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

Date:

26th April 2018



1. Introduction

This classification report defines the classification assigned to "AC300" a glass reinforced polymer concrete, in line with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product, "AC300", is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, "AC300", 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 | | "AC300" |
| Name of manufacturer | | Jesmonite Limited |
| Thickness | | 10-15mm (stated by sponsor) 13.09mm (determined by Exova Warringtonfire) |
| Weight per unit area | | 23.17kg/m ² (determined by Exova Warringtonfire) |
| Polymer concrete | Generic type | Polymer concrete |
| | Product reference | "AC300" |
| | Detailed composition details | Water based acrylic polymer modified gypsum |
| | Name of manufacturer | Jesmonite Limited |
| | Density | 1940kg/m ³ |
| | Colour reference | "White" |
| | Flame retardant details | See note 1 below |
| Glass reinforcement | Generic type | Glass fibre |
| | Product reference | "Quadaxial Glass Fibre" |
| | Name of manufacturer | See note 2 below |
| | Colour reference | "White" |
| | Weight per unit area | 0.144kg/m ² |
| | Type of weave / cell dimensions | Stich gauge -3.0 Stich length-2.5mm Stich Type- Pillar |
| | 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 397219 | EN ISO 11925-2 |
| Exova warringtonfire | Jesmonite Limited | WF 394209 | EN 13823 |

3.2 Test results

| Test method & test number | Parameter | No. tests | Results | |
|---|-----------------------------|-----------|---------------------------------|-----------------------|
| | | | Continuous parameter - mean (m) | Compliance parameters |
| 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 |
| EN 13823 | FIGRA _{0.2MJ} | 3 | 13.13 | Compliant |
| | FIGRA _{0.4MJ} | | 13.13 | Compliant |
| | THR _{600s} | | 1.50 | Compliant |
| | LFS | | None | Compliant |
| | SMOGRA | | 2.18 | Compliant |
| | TSP _{600s} | | 20.11 | 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, "AC300" a glass reinforced polymer concrete, 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 applications, 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 12.5 mm 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 weight per unit area / density | No variation allowed |
| Product colour/pattern | No variation allowed |
| Product composition | No variation allowed |
| Product construction | No variation allowed |

5. Limitations

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

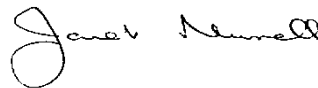
SIGNED



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Matthew Dale
Senior Certification Engineer
Technical Department

APPROVED



.....

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

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