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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:

"A2 Mineral Core"

Report No:

WF 400381

Issue No:

2

Prepared for:

Foshan Vanco Building
Materials Co Limited
Shunde Technology &
Innovation Center,
South Chaogui Rd,
Gaoli, Ronggui, Shunde
Foshan, China

Date:

1st June 2018



1. Introduction

This classification report defines the classification assigned to Core material of "A2 Mineral Core" an aluminium composite panel core material, in accordance with the procedures given in EN 13501-1:2007+A1: 2009

2. Details of classified product

2.1 General

The product, "A2 Mineral Core", is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, "A2 Mineral Core", is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

The sponsor stated that production of the product and sampling was witnessed by Mr Jeff Deng from Intertek on 21st March, 2018 at Foshan Vanco Building Materials Co. Limited plant.

General description	Core material of A2 aluminium composite panel
Generic type	See Note 1 below
Product reference	"A2 Mineral Core"
Detailed description / composition details	See Note 1 below
Name of manufacturer	Vanco
Thickness	3mm
Density	1.86kg/m ³
Weight per unit area	5.58kg/m ²
Colour reference	"Ivory White"
Flame retardant details	See Note 1 below
Mounting and fixing details	The specimens were tested clamped into a "window" frame manufactured from 5mm steel sheet
Air space details	An 80mm ventilated cavity was situated between the reverse face of each specimen and the calcium silicate backing board
Brief description of manufacturing process	Mixing & Extrusion

Note 1: The sponsor was unwilling to provide this information.

The description of the specimens given above is not as complete as would normally be the case for descriptions included in Exova Warringtonfire reports, and the description may not fully comply with the requirements of the standard. In all other respects, however, the tests were conducted fully in accordance with the requirements of the standard and the test results are valid.

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	Foshan Vanco Building Materials Co Limited	WF 398021 (Issue 2)	EN 13823
		WF 398022 (Issue 2)	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	24.41	Compliant
	FIGRA _{0.4MJ}		23.34	Compliant
	THR _{600s}		1.84	Compliant
	LFS		None	Compliant
	SMOGRA		5.22	Compliant
	TSP _{600s}		30.52	Compliant
EN ISO 1716	Product as a whole – PCS (a, e)	3	2.2181 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, "A2 Mineral Core" an aluminium composite panel core material, 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) Free standing construction applications
- ii) Construction applications, mechanically installed with a minimum airspace of 80mm

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

SIGNED

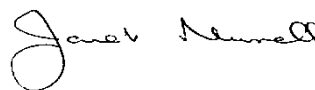


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Matthew Dale

Senior Certification Engineer

APPROVED



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Janet Murrell

Technical Manager
on behalf of **Exova warringtonfire**

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Appendix 1

Intertek

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Inspector's Initials: Jeff Deng

SAMPLE SUBMITTAL FORM

Date: 2018-3-21 Product(s): A2 Mineral core
Client: Foshan Vanco Building Materials Co., Limited Report Number(s): GZ
Expected Shipping Date: 2018-3-22

Description of Sample: 3mm mineral core material

Are samples marked by the inspector? ☒ Yes ☐ No
If Yes, describe marking: Intertek Jeff Deng 2018-3-21
If No, explain why not: _____

Date of Manufacture: 2018-3-21
Lot/Serial Number: 2018-3-21
Quantity Sampled: 1000mmx1500mm 5pcs, 495x1500mm 5pcs, 250x250mm 1pc

Additional Information: 8pcs of core material panels are stored in factory

Attach all relevant supporting Quality Control Documents

[Signature] Jeff Deng 2018-3-21
Factory Representative's Signature Intertek Representative's Signature
2018-3-21

Sample Submittal Form

Rev 9/10/05

Sampling photographs

