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Title:

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1: 2018.

Product Name:

"Aliclad Flow Board"

Report No:

WF 503326

Issue No:

1

Prepared for:

Milwood Group (Alideck)
27 Rochester Airport Industrial Estate
Laker Road
Rochester
Kent
ME1 3QX

Date:

5th August 2021

1. Introduction

This classification report defines the classification assigned to “Aliclad Flow Board”, a coated aluminium decking board, in line with the procedures given in EN 13501-1: 2018.

2. Details of classified product

2.1 General

The product, “Aliclad Flow Board”, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, “Aliclad Flow Board”, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Coated aluminium decking board
Product reference		“Aliclad Flow Board”
Name of manufacturer		Canoports UK Ltd
Overall thickness		1.5mm (sheet, stated by sponsor) 12.6mm (profiled product – determined by Warringtonfire)
Overall weight per unit length		1.26 kg/lm (determined by Warringtonfire)
Profile detail		140mm x 12.6mm
Photograph of profile		
Coating	Generic type	Polyester
	Product reference	“QD9128985MRT.90”
	Name of manufacturer	Sherwin Williams Syntha Pulvin
	Colour reference	“Grey”
	Number of coats	One
	Application thickness	60-80 microns
	Application rate	128g/m^2
	Specific gravity	1.6
	Application method	Corona
	Curing process	200°C for 10 minutes
	Flame retardant details	**See Note 1 Below**

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Aluminium	Generic type	Aluminium
	Product reference	"6063T6"
	Name of manufacturer	Canoports UK Ltd
	Thickness	1.5mm (sheet) formed into a 12.6mm profile
	Weight per unit area	1.865kg/m^2 (flat sheet) 10.64kg/m^2 (profiled product)
	Flame retardant details	**See Note 1 Below**
Air space details		A 40mm ventilated cavity was situated between the reverse face of the specimens and the calcium silicate substrate as defined in EN 13238:2010
Brief description of manufacturing process		Aluminium extrusion + powder coating

Note 1: The sponsor of the test was unwilling 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
Warringtonfire	Milwood Group T/A Canoports UK Ltd	WF 418174	EN ISO 1716: 2018
Warringtonfire	Milwood Group (Alideck)	WF 503375 (Issue 2)	EN ISO 1716: 2018 Composite summary report
Warringtonfire	Milwood Group (Alideck)	WF 502398	EN 13823: 2020

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN 13823	FIGRA $_{0.2MJ}$	3	0 W/s	-
	FIGRA $_{0.4MJ}$		0 W/s	-
	THR $_{600s}$		0.4 MJ	-
	LFS		-	Compliant
	SMOGRA		1 m^2s^2	-
	TSP_{600s}		26 m^2	-
	Fall of Flaming Droplet/Particle?		-	Compliant
	Flaming of Fallen Particle Exceeding 10s?		-	Compliant
EN ISO 1716	Coating- PCS (b)	3	2.1 MJ/m²	-
	Aluminium - PCS (a)	Deemed to satisfy (0.00)		-
	For the product as a whole PCS (e)	Summary result	1.1 MJ/Kg	-

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: 2018.

4.2 Classification

The product, “Aliclad Flow Board”, a coated aluminium decking board, 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 applications, 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) Construction applications mounted with a minimum 40mm airspace over any substrate with a density equal to or greater than 652.5kg/m^3, having a minimum thickness of 9mm and a fire performance of A2-s1,d0 or better (excluding paper faced gypsum plasterboard).

ii) Air gap: ≥40mm

This classification is also valid for the following product parameters:

Coating thickness	No variation allowed
Coating application rate	No variation allowed
Coating density	No variation allowed
Coating colour	No variation allowed
Product composition	No variation allowed
Aluminium thickness	No variation allowed
Profile	No variation allowed
Product orientation	Mounted vertically (vertical joints)
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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Stacey Deeming
Principal Engineer
Technical Department

APPROVED

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Matthew Dale
Principal Certification Engineer
Technical Department
on behalf of Warringtonfire