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Title:

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

Product Name:

“Alideck 30mm Balcony Board”

Report No:

WF 514297

Issue No:

1

Prepared for:

Milwood Group (Alideck)
27 Rochester Airport Industrial Estate
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Date:

15th July 2022

1. Introduction

This classification report defines the classification assigned to “Alideck 30mm Balcony Board”, a coated aluminium decking product, in line with the procedures given in EN 13501-1: 2018.

2. Details of classified product

2.1 General

The product, “Alideck 30mm Balcony Board”, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, “Alideck 30mm Balcony 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 of coating system		“Alideck 30mm Balcony Board”
Name of manufacturer		Canoports UK Ltd
Overall thickness		1.5mm sheet and 30mm profile (stated by sponsor) 30.5mm (measured by Warringtonfire)
Overall weight per unit area		18.06kg/m^2 (determined by Warringtonfire)
Final coating product (Test face)	Generic type	**See Note 1 below**
	Product reference	**See Note 1 below**
	Name of manufacturer	Sherwin Williams Syntha Pulvin
	Colour reference	“QD9128985MRT.90”
	Colour	“Grey Sparkle Speckle Textured”
	Number of coats	One
	Thickness per coat	Between 60 and 80 microns
	Application rate	128g/m²
	Application method	Corona
	Flame retardant details	**See Note 1 below**
	Curing process	200 degrees for 10 mins
Substrate	Generic type	Aluminium
	Product reference	**See Note 1 below**
	Name of manufacturer	**See Note 1 below**
	Thickness	1.5mm (sheet) 30mm (overall profile)
	Weight per unit area	1.865kg/m^2
	Flame retardant details	**See Note 1 below**
Mounting and fixing details		A 40mm ventilated cavity was situated between the reverse face of the specimens and the calcium silicate backing board as defined in EN 13238:2010
Joint details		A vertical joint was incorporated in the specimen

Continued on next page

Specimen orientation	The specimens were tested in a vertical orientation
Brief description of manufacturing process of coatings	**See Note 1 below**

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

The description of the specimens given above is therefore not as complete as would normally be the case for descriptions included in Warringtonfire test reports and the description may not fully comply with the requirements of the test standard. In all other respects however the tests were conducted fully in accordance with the requirements of the test 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 report Nos.	Test method & date
Warringtonfire	Milwood Group (Alideck)	510907 (Issue 2)	EN 13823:2020
Warringtonfire	Milwood Group (Alideck)	418174	EN ISO 1716: 2018
Warringtonfire	Milwood Group (Alideck)	516121	EN ISO 1716: 2018 (Composite summary report)

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 $_{600s}$		0.1 MJ	-
	LFS		-	Compliant
	SMOGRA		0 m^2/s^2	-
	TSP_{600s}		1 m^2	-
	Fall of Flaming Droplet/Particle?		-	Compliant
	Flaming of Fallen Particle Exceeding 10s?		-	Compliant
EN ISO 1716	Topcoat - PCS (b)	3	2.1 MJ/m² (16.5MJ/kg)	-
	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, “Alideck 30mm Balcony Board”, a coated aluminium decking product, 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 flooring applications, excluding construction applications 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).

This classification is also valid for the following product parameters:

Product thickness	30mm as stated by sponsor
Product weight per unit area	No variation allowed
Product colour	"Grey Sparkle Speckle Textured"
Product composition	No variation allowed
Coating application rate	128g/m²
Product construction	No variation allowed
Joints	Vertical joints only allowed

5. Limitations

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

Authored	Signed	Approved
		
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