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#### Title:

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

# **Notified Body No:**

0833

### **Product Name:**

"MyDek Decking Systems"

# **Report No:**

WF 419229

**Issue No:** 

3

# **Prepared for:**

MyDek Limited, Regus House, Fairbourne Drive, Milton Keynes, MK10 9RG

### Date:

13<sup>th</sup> December 2019



### 1. Introduction

This classification report defines the classification assigned to "MyDek Decking Systems", a polyester powder coated aluminium profile, in line with the procedures given in EN 13501-1:2018.

# 2. Details of classified product

#### 2.1 General

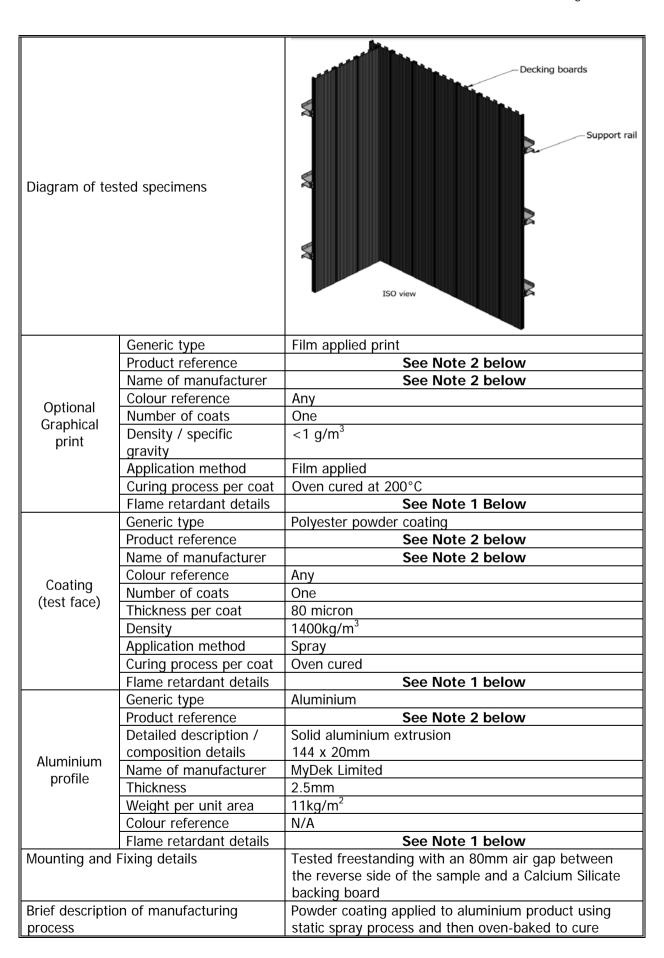
The product, "MyDek Decking Systems", a polyester powder coated aluminium profile, is defined as being suitable for construction applications.

# 2.2 Product description

The product, "MyDek Decking Systems", a polyester powder coated aluminium profile, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description	Polyester powder coated profile			
Product reference of overall	"MyDek Decking Systems"			
composite				
Name of manufacturer of overall	MyDek Limited			
composite	,			
Thickness of overall composite	20mm (determined by Warringtonfire)			
Density	1700kg/m³ (stated by sponsor)			
	416.28kg/m <sup>3</sup> (determined by Warringtonfire)			
Profile of tested specimens	1060  Top view			

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- **Note 1:** The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.
- **Note 2:** The sponsor of the test has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are instead held on the confidential file relating to this investigation.

# 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	MyDek Limited	WF 419209 (full) WF 419210 (indic)	EN ISO 1716	
Warringtonfire	MyDek Limited	WF 421728 (full) WF 421729, WF 422239 (indic)	BS EN 13823	
Warringtonfire	MyDek Limited	WF 419230 - Issue 3	EN 15117	

# 3.2 Test results

Test method & test number	Parameter	No. tests	Results			
			Continuous parameter - Max/ Mean (m)	Compliance with parameters		
BS EN 13823	FIGRA <sub>0.2MJ</sub>		RA <sub>0.2MJ</sub> 1.41 W/s (Red – full) 0.00, 0.00 W/s (indic)		Compliant	
	FIGRA <sub>0.4MJ</sub>	1.41 W/S (Red – full) 0.00, 0.00 W/S (indic)		Compliant		
	THR <sub>600s</sub>		0.55 MJ (Red – full) 0.12, 0.24 MJ (indic)	Compliant		
	LFS	3 (full) 1 (indic)	None (Red – full) None (indic)	Compliant		
	SMOGRA		0.00 m <sup>2</sup> s <sup>2</sup> (Red – full) 0.00, 0.00 m <sup>2</sup> s <sup>2</sup> (indic)	Compliant		
	TSP <sub>600s</sub>		21.50 m <sup>2</sup> (Red – full) 25.00, 28.62 m <sup>2</sup> (indic)	Compliant		
	Flaming droplets lasting > 10s		None (Red – full) None (indic)	Compliant		
EN ISO 1716	Coating - PCS (b)	3 (full) 1 (indic)	2.49 MJ/m <sup>2</sup> (Formal - Sublimated) 2.59 MJ/m <sup>2</sup> (Indicative - Non- sublimated)	Compliant		
	Aluminium – PCS (a)		Compliant			
	For the product as a whole – PCS (e)	N/a 0.224 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 13501-1:2018.

#### 4.2 Classification

The product, "MyDek Decking Systems", a polyester powder coated aluminium profile, 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:

Fire Behaviour		Smoke P	roduction		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) Freestanding applications
- ii) Construction applications

This classification is also valid for the following product parameters:

Coating colour Any allowed

Graphical print presence
Coating thickness
Coating density
Allowed with or without
80 microns and below
1400kg/m³ only allowed
2.5mm and greater allowed

Composite thickness and width 20mm and greater allowed if Aluminium only increased

Product composition No further variation allowed Product construction No further variation allowed

Air gap details ≥ 80mm allowed

### 5. Limitations

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

**SIGNED** 

Euan Gardner

Junior Certification Engineer Technical Department **APPROVED** 

**Matthew Dale** 

Senior Certification Engineer Technical Department

On behalf of Warringtonfire

**Issue 2:** Correction to product description at request of client. E Gardner. 16<sup>th</sup> December 2019. **Issue 3:** Correction to product description at request of client. E Gardner. 6<sup>th</sup> January 2020.

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