REACTION TO FIRE - CLASSIFICATION REPORT Nr. EUI-24-000543B

1. INTRODUCTION

This classification report defines the classification assigned to Futural, in accordance with the procedures given in BS EN 13501-1:2018.

REACTION TO FIRE CLASSIFICATION IN ACCORDANCE WITH BS EN 13501-1:2018

Sponsor:	FUTURAL (UK) LTD 128 City Road EC1V 2NX London United Kingdom
Prepared by:	EFECTIS UK/Ireland Limited Shore Road Jordanstown Co Antrim - BT37 0QB United Kingdom
Product name:	Futural
Classification report No.:	EUI-24-000543B
Issue number:	1
Date of issue:	26th September 2024

This classification report consists of six pages and may only be used or reproduced in its entirety.

2. DOCUMENT TRACKING

Revision Index.	*Modification*
0	Original document

3. DESCRIPTION OF THE PRODUCT

3.1. GENERAL

The product, Futural, is defined as a is defined as a pre-coated aluminium panel.

3.2. PRODUCT DESCRIPTION

The product, Futural, is described below, or is described in the reports provided in support of classification listed in §4.1.

Product description		
Trademark	Futural	
Manufacturer / supplier	Information provided and kept within the project folder at the laboratory facility but withheld on the report for commercially sensitive reasons	
Composition	PVDF Topcoat (Front Side)	Reference: PVDF Paint Supplier: Information provided and kept within the project folder at the laboratory facility but withheld on the report for commercially sensitive reasons Thickness: 40 microns Mass per unit area: 0.06 kg/m^2 Colour: Wide range of colour Relative to the final product: 0.73%
	Polyester Front Primer Coating	Reference: Polyester Primer Paint Supplier: Information provided and kept within the project folder at the laboratory facility but withheld on the report for commercially sensitive reasons Thickness: 6 microns Mass per unit area: 0.008 kg/m^2 Colour: White Relative to the final product: 0.1%
	Flat Aluminium Coil sheet	Supplier: Information provided and kept within the project folder at the laboratory facility but withheld on the report for commercially sensitive reasons Thickness: 3 mm Mass per unit area: 8.1 kg/m^2 Relative to the final product: 99%

	Polyester Back Coating (Back Side)	Reference: Polyester Back Paint Supplier: Information provided and kept within the project folder at the laboratory facility but withheld on the report for commercially sensitive reasons Thickness: 12 microns Mass per unit area: 0.014 kg/m^2 Colour: Grey Relative to the final product: 0.17%
Thickness	3 mm	
Mass per unit area	8.18 kg/m2	
Density	2727 kg/m3	
Colour	Various	
Fire retardant	No	

4. REPORTS AND RESULTS IN SUPPORT OF THIS CLASSIFICATION

4.1. REPORTS

Name of Laboratory	Name of sponsor of the classification	Report ref. no	Test method and date field of application rules and date
EFECTIS UK/Ireland	FUTURAL (UK) LTD	EUI-23-SBI-000691	BS EN 13823:2020+A1:2022
EFECTIS UK/Ireland	FUTURAL (UK) LTD	EUI-23-HC-000242	BS EN ISO 1716 :2018

4.2. RESULTS

Test method and test number	Parameter	No. Tests a)	Results			
			Continuous parameter - mean (m)			Compliance with parameters
BS EN 13823:2020 +A1:2022 EUI-23-SBI-000691	FIGRA $_{0,2\ MJ}$ (W/s)	3	0			-
	FIGRA $_{0,4\ MJ}$ (W/s)		0			-
	THR $_{600\ s}$ (MJ)		0.2			-
	LFS		-			Compliant
	SMOGRA		2			-
	TSP $_{600s}$ (m^2)		15			-
	Flaming droplets or particles		-			Compliant
BS EN ISO 1716 :2018 EUI-23-HC-000242	PCS (MJ/kg) GCV (MJ/kg)	3	Topcoat PVDF White colour	15.82 (MJ/kg)	0.95 (MJ/m^2)	-
		3	Topcoat PVDF red colour	14.95 (MJ/kg)	0.90 (MJ/m^2)	
		3	Topcoat PVDF black colour	15.36 (MJ/kg)	0.92 (MJ/m^2)	
		3	Polyester primer coating	13.91 (MJ/kg)	0.11 (MJ/m^2)	
		3	Polyester coating	16.48 (MJ/kg)	0.23 (MJ/m^2)	
		-	Aluminium* (Not tested)	0*	0*	
BS EN ISO 1182 :2020	-	-	Aluminium sheet (Not tested)**			-

a) Not for extended application
(-) means not applicable.
* Metallic components shall not be tested. Their gross heat of combustion shall be deemed to be zero according to BS EN ISO 1716:2018
** This component is classified as reaction to fire class A1 without testing according to Commission Decision 96/603/ES as amended Commission Decision 2000/605/ES and 2003/424/ES

5. CLASSIFICATION AND FIELD OF APPLICATION

5.1. REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with BS EN 13501-1:2018.

5.2. CLASSIFICATION

The product, Futural, in relation to its reaction to fire behaviour is classified:

A1

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

Fire behaviour
A1

i.e., **A1**

Reaction to fire classification	A1

5.3. FIELD OF APPLICATION

According to the standard BS EN 14782:2006, this classification is valid for the following product parameters and end-use applications:

Grade of metal	Valid for all grades of metal sheet
Thickness of Aluminium	Valid for a nominal thickness of 3 mm or greater
Profile geometry of sheeting: flat, profiled or corrugated, or cassettes	Valid as tested
Overlap between two successive profiles	Valid for all overlaps between 40 mm and 300 mm
Horizontal joint	Valid for end use conditions with or without this joint
Colour	Valid for all colours
Type of coating	Valid for the tested coating type and where the PCS and mass ≤ that of the tested organic coatings
Fixing for metal flashing	Valid for all spacing less than or equal to 360 mm
Substrate	Valid for any end use wood-based substrates and also any end use substrate of classes A1 and A2-s1,d0 with a density of at least 337.5 kg/m^3
Cavity / airgap	Valid with a cavity / airgap of at least 160 mm between the specimen and the substrate

6. LIMITATIONS

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

SIGNED

Vitor Oliveira
Project leader

APPROVED

Maurice McKee
Lab Manager