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CLASSIFICATION REPORT

REACTION TO FIRE - CLASSIFICATION REPORT No EUI-23-000777A-Revision 1

1. INTRODUCTION

This classification report defines the classification assigned to Futural also known as HJ Tech PVDF Precoated Solid Aluminium 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: Anhui HJ Tech Co., Ltd

#568 South Huizhou Rd

Chuzhou City Anhui Province

239065 China

Product name: Futural also known as HJ Tech PVDF Pre-coated Solid Aluminium

Classification report No.: EUI-23-000777A

Issue number: 2

Date of issue: 15 November, 2023

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This report cancels and replaces the Classification Report Nr. EUI-23-000777A.

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2. DOCUMENT TRACKING

Revision Index.	Modification
0	Original document
1	§5.3 - Field of application: Profile geometry of sheeting

3. DESCRIPTION OF THE PRODUCT

3.1. GENERAL

The product, Futural also known as HJ Tech PVDF Pre-coated Solid Aluminium, is defined as a pre-coated aluminium panel

3.2. PRODUCT DESCRIPTION

The product, Futural also known as HJ Tech PVDF Pre-coated Solid Aluminium, is described below, or is described in the reports provided in support of classification listed in 3.1.

	Product description					
Trademark	Futural also known as HJ Tech PVDF Pre-coated Solid Aluminium					
Manufacturer / supplier	Anhui HJ Tech	Anhui HJ Tech Co., Ltd				
Composition	PVDF Topcoat (Front side)	Supplier name: Information provided and kept within the project folder at the laboratory facility but withheld on the report for commercially sensitive reasons Reference name: PVDF Paint Thickness: 40 µm Mass per unit area: 0.06 kg/m² Colour: Wide range of colours Relative mass to the final product: 0.73%				
	Polyester Front Primer Coating	Supplier name: Information provided and kept within the project folder at the laboratory facility but withheld on the report for commercially sensitive reasons Reference name: Polyester Primer Paint Thickness: 6 µm Mass per unit area: 0.008 kg/m² Colour: White Relative mass to the final product: 0.1%				
	Flat Aluminium Coil Sheet	Supplier name: 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/m² Relative mass to the final product: 99%				



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

4. REPORTS AND RESULTS IN SUPPORT OF THIS CLASSIFICATION

4.1. REPORTS

Name of Laboratory	Name of sponsor	Report ref. no	Test method and date field of application rules and date
EFECTIS UK/Ireland	Anhui HJ Tech Co., Ltd	EUI-23-SBI-000691	BS EN 13823:2020+A1:2022
EFECTIS UK/Ireland	Anhui HJ Tech Co., Ltd	EUI-23-HC-000242	BS EN ISO 1716: 2018

4.2. RESULTS

Test method and		No.	Results		
test number	Parameter	Tests a)	Continuous parameter - mean (m)	Compliance with parameters	
	FIGRA _{0,2 MJ} (W/s)		0	-	
BS EN	FIGRA _{0,4 MJ} (W/s)		0	-	
13823:2020+A1:2022	THR _{600 s} (MJ)	3	0.2		
EUI-23-SBI-000691	LFS		-	Compliant	
	SMOGRA		2	-	
TSP	TSP _{600s} (m²)		15	-	



	Flaming droplets or particles			-		Compliant
	PCS (MJ/kg) GCV (MJ/kg)	3	Topcoat PVDF White colour	15.82 (MJ/kg)	0.95 (MJ/m²)	-
		3	Topcoat PVDF red colour	14.95 (MJ/kg)	0.90 (MJ/m²)	-
DO EN 100		3	Topcoat PVDF black colour	15.36 (MJ/kg)	0.92 (MJ/m²)	-
BS EN ISO 1716 :2018		3	Polyester primer coating	13.91 (MJ/kg)	0.11 (MJ/m²)	-
EUI-23-HC-000242		3	Polyester coating	16.48 (MJ/kg)	0.23 (MJ/m²)	-
		-	Aluminium* (Not tested)	0*	0*	-
		ı	Product as a whole	0.16 (MJ/kg)	1.29 (MJ/m²)	-
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 also known as HJ Tech PVDF Pre-coated Solid Aluminium, in relation to its reaction to fire behaviour is classified:

Α1

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

Fire behaviour	
A 1	

i.e., A1

Reaction to fire classification	A1
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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 Valid for all nominal thicknesses of 3 mm or greater

Profile geometry of sheeting: Valid as tested

flat, profiled or corrugated, or

cassettes

Overlap between two

Valid for all overlaps between 40 mm and 300 mm

successive profiles 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 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 wood based substrate and also any substrate of class A1 and

A2-s1,d0 with a density of 337.5 kg/m³ or greater

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 APPROVED

Vitor Oliveira Project leader

Damien Flammier Technical Manager