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REACTION TO FIRE - CLASSIFICATION REPORT EUI-21-000379

1. INTRODUCTION

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

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

Sponsor :	Fairview Europe Ltd. t/a Valcan Dunball House Unit N Woodlands Court Business Park Bristol Road Bridgwater TA5 4FJ United Kingdom
Prepared by:	Efectis UK/Ireland
Product name:	VitraDual
Classification report No.:	EUI-21-000379
Issue number:	1
Date of issue:	14th of December, 2021

2. DOCUMENT TRACKING

Revision Index.	*Modification*
0	Original document

3. DESCRIPTION OF THE PRODUCT

3.1. GENERAL

The product, VitraDual is defined as a Coated aluminum panel.

3.2. PRODUCT DESCRIPTION

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

Product description		
Trade mark	VitraDual	
Composition	Topcoat	Topcoat PVDF paint Reference: PVDF Paint Supplier: Information provided but withheld on the report for commercially sensitive reasons Thickness: 40 microns Mass per unit area: 0.059 kg/m^2 Colour: Wide range of colour Relative to the final product: 0.71% Black and white colour have been tested to ISO 1716 : 2018 as observed in Documents No. 420457 and No. 420458
	Primer	Polyester front primer coating Supplier: Information provided but withheld on the report for commercially sensitive reasons Thickness: 5 microns Mass per unit area: 0.007 kg/m^2 Colour: White Relative to the final product: 0.008%
	Metal sheet	Aluminium coil sheet Supplier: Information provided but withheld on the report for commercially sensitive reasons Thickness: 3 mm Mass per unit area: 8.13 kg/m² for 3 mm thick Relative to the final product: 97.832% Not tested According to the conventional classification of the Commission Decision 96/603/EC, as amended 2000/605/EC.
	Rear primer	Epoxy primer back coating Reference: Epoxy Primer Supplier: Information provided but withheld on the report for commercially sensitive reasons Thickness: 8 microns Mass per unit area: 0.12 kg/m^2 Colour: Grey Relative to the final product: 1.45% It has been tested to ISO 1716 : 2018 as observed in Document No. 420456
Thickness	3 mm	
Mass per unit area	8.13 kg/m² for 3 mm thick	
Density	2710 kg/m^3	

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	Fairview Europe Ltd. t/a Valcan	EUI-21-SBI-000379	BS EN 13823 : 2020
EFECTIS UK/Ireland	Fairview Europe Ltd. t/a Valcan	EUI-21-HC-000379	BS EN ISO 1716 : 2018
WARRINGTON	Fairview Europe Ltd. t/a Valcan	WF 420456 WF 420457 WF 420458	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 EUI-21-SBI-000379	FIGRA 0,2 MJ (W/s)	3	0.00			-
	FIGRA 0,4 MJ (W/s)		0.00			-
	THR 600 s (MJ)		0.08			-
	LFS		-			Compliant
	SMOGRA		0.00			-
	TSP 600s (m^2)		11.95			-
	Flaming droplets or particles		-			Compliant
BS EN ISO 1716 : 2018 EUI-21-HC-000379 WF 420456 WF 420457	GSV (MJ/kg)	3	Topcoat PVDF Paint Red color	18.60 (MJ/kg)	1.10 (MJ/m^2)	-
		3	Polyester front primer coating	17.48 (MJ/kg)	0.12 (MJ/m^2)	-
		3	Epoxy Primer	29.12 (MJ/kg)	0.35 (MJ/m^2)	-

WF 420458		3	Topcoat PVDF Paint White color	12.47 (MJ/kg)	0.73 (MJ/m^2)	-
		3	Topcoat PVDF Paint Black color	20.08 (MJ/kg)	1.18 (MJ/m^2)	-
		-	Aluminium sheet (Not tested)	0*	0*	-
		15	Specimen Overall	0.42 (MJ/kg)	3.48 (MJ/m^2)	-
EN ISO 1182 :2020	-	-	Aluminium sheet (Not tested)			A1*

*According to the conventional classification of the Commission Decision 96/603/EC, as amended 2000/605/EC.
a) Not for extended application
(-) means not applicable

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, VitraDual, 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	
A	**1**

i.e.A1

Reaction to fire classification	**A1**

5.3. FIELD OF APPLICATION

This classification is valid for the following product parameters and end-use applications:

Thickness of Aluminium sheet	Valid for thickness of 3 mm and above
Application rate of Topcoat	Valid for Maximum Mass per unit area of 0.059 kg/m^2
Application rate of Primer	Valid for Maximum Mass per unit area of 0.007 kg/m^2
Application rate of Rear Coat	Valid for Maximum Mass per unit area of 0.12 kg/m^2
Density	Valid for the density of 2710 kg/m^3
Type of product/ facings	Valid for tested type of product only (same formulation)
Asymmetry	Valid for fire on Topcoat PVDF Paint

Colour	Valid for all colours
Substrate	Valid for any end use wood based substrates and 337.5 ± 37.5 kg/m^3 density and also any end use substrate of classes A1 and A2-s1,d0 class
Air gaps / cavities	Valid for at least 50 mm air gaps / cavities between the panel and the substrate
Size and positioning of the test specimen	Valid for all product sizes.

6. LIMITATIONS

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

SIGNED

Hamed Zoghi
Project Leader

APPROVED

Damien Flammier
Technical Manager