



Classification of reaction to fire performance of construction products and building elements in accordance with BS EN 13501-1:2018

Report Number 590

Issue A

Prepared for Fairview Europe Ltd t/a Valcan

Date 24/01/2024

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A	24/01/2024	First issue

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590-A



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1. Introduction

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

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

Sponsor: Fairview Europe Ltd t/a Valcan Prepared for: Fairview Europe Ltd t/a Valcan

Place of manufacture: Fairview Europe Ltd t/a Valcan - Dunball House, Unit N, Woodlands

Court Business Park, Bristol Road, Bridgwater, Somerset, TA6 4FJ, UK

CAB Number: N/A Classification report No.: 590-A

Date of issue 24/01/2024

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2. Details of classified product

2.1. General

Classification according to BS EN 13501-1:2018 of Xtral.

2.2. Traceability

The test sample was supplied by the sponsor. System Laboratories UK LTD was not involved in the sampling process and therefore cannot comment upon the relationship between the samples supplied for the test and the products supplied to the market.

2.3. Sample details

Test sponsor Fairview Europe Ltd t/a Valcan

Dunball House, Unit N

Woodlands Court Business Park

Bristol Road Bridgwater Somerset TA6 4FJ UK

Trade name Xtral

Sample description (as Architectural rainscreen panel

provided by sponsor)

Product data (as provided by sponsor)

Generic type of product Pained aluminium architectural rainscreen panel

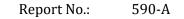
Nominal thickness (mm) 1.7 Density of core (kg/m³) 2730

Mass per unit area (kg/m²) 4.64 (Calculated by laboratory)

Colour Any

Test face Red/White/Black tested

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Flame retardant added, or N/A organic content limited during production

N/A

Substrate and ventilation conditioned

Substrate Mineral Wool

Type of air gap 40 mm between sample and substrate

2.4. Detailed product description

The product is configured as detailed below, front to back.

	Type of product/layer	Paint	
Paint	Product/layer reference	Paint	
	Thickness	Sponsor could not provide information	
	Colour	Any	
	Construction form	Paint applied to aluminium planks	
	Type of product/layer	Aluminium planks	
	Product/layer reference	Aluminium planks	
Aluminium	Thickness	1.7 mm	
Planks	Colour	Metallic	
	Construction form	Aluminium planks held together by	
		aluminium brackets	
	Type of product/layer	Aluminium brackets	
	Product/layer reference	Aluminium brackets	
	1 Todact/ layer reference	111011111111111111111111111111111111111	
Aluminium	Thickness	1 mm (Measured by laboratory)	
Aluminium Brackets			
	Thickness	1 mm (Measured by laboratory)	
	Thickness Colour	1 mm (Measured by laboratory) Metallic	
	Thickness Colour	1 mm (Measured by laboratory) Metallic	
	Thickness Colour Construction form	1 mm (Measured by laboratory) Metallic Aluminium brackets	
	Thickness Colour Construction form Type of product/layer	1 mm (Measured by laboratory) Metallic Aluminium brackets Mineral wool substrate	
Brackets	Thickness Colour Construction form Type of product/layer Product/layer reference	1 mm (Measured by laboratory) Metallic Aluminium brackets Mineral wool substrate Substrate	
Brackets Mineral wool	Thickness Colour Construction form Type of product/layer Product/layer reference Thickness	1 mm (Measured by laboratory) Metallic Aluminium brackets Mineral wool substrate Substrate 25 mm (Measured by laboratory)	

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3. Reports and results in support of this classification

3.1. Reports

Name of laboratory System Laboratories UK	Name of test sponsor Fairview Europe Ltd t/a	Test report No. 499A	Test method/field of application BS EN ISO 1716:2018
.,	Valcan		
System Laboratories UK	Fairview Europe Ltd t/a	586A	BS EN 13823:2020+A1:2022
	Valcan		Indicative
System Laboratories UK	Fairview Europe Ltd t/a	587A	BS EN 13823:2020+A1:2022
	Valcan		Indicative
System Laboratories UK	Fairview Europe Ltd t/a	588A	BS EN 13823:2020+A1:2022
	Valcan		Indicative
System Laboratories UK	Fairview Europe Ltd t/a	589A	BS EN 13823:2020+A1:2022
	Valcan		

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3.2. Results

		Number	Results	
Standard/Decision	Parameter	of tests	Continuous	Compliance with class
			parameter mean	A2-s1,d0
BS EN 13823:2020+A1:2022	FIGRA _{0.2MJ}	3	0 W/s	≤ 120 W/s
D3 EN 13023:2020+A1:2022	FIGICA _{0.2MJ}	3	U W/S	Compliant
BS EN 13823:2020+A1:2022	THR _{600s}	3	0.33 MJ	≤ 7.5 MJ
DS EN 13823:2020+A1:2022				Compliant
BS EN 13823:2020+A1:2022	LFS	3	No spread to egde	No spread to edge
BS EN 13823:2020+A1:2022	LFS			Compliant
BS EN 13823:2020+A1:2022	TSP _{600s}	3	20.6 m ²	$\leq 50 \text{ m}^2$
B3 EN 13023.2020+A1.2022				Compliant
BS EN 13823:2020+A1:2022	SMOGRA	3	$0 \text{ m}^2/\text{s}^2$	$\leq 30 \text{ m}^2/\text{s}^2$
B3 EN 13023.2020+A1.2022	SWOGKA			Compliant
BS EN 13823:2020+A1:2022	Flaming droplets	3	No flaming droplets	No flaming droplets
BS EN 13823:2020+A1:2022				Compliant
BS EN ISO 1716:2018 (b)	2	3	1.511 MJ/m ²	$\leq 4 \text{ MJ/m}^2$
Paint	MJ/m ²	3	1.511 MJ/M	Compliant
BS EN ISO 1716:2018 (a)	MI /l-~	0	O.MI /lra	≤ 3 MJ/kg
Aluminium	i Wil/kg I		0 MJ/kg	Compliant
BS EN ISO 1716:2018 (e)	SO 1716:2018 (e)	3	0.265 MI/l-s	≤3 MJ/kg
Product as a whole	MJ/kg	3	0.365 MJ/kg	Compliant

Note:

Metals were not tested due to BS EN ISO 1716:2018 clause 9.4.1 where metals are already deemed to have a calorfic value of 0.

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4. Classification and field of application

4.1. Reference of classification

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

4.2. Classification

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

Fire behaviour Smoke production Flaming droplets A2 - s 1 , d 0

Reaction to fire classification: A2-s1,d0

4.3. Field of application

This classification is valid for the following product and mounting and fixing parameters:

Thickness	No variation allowed	
Colour	Any colour (EGOLF 003 - 2016)	
Composition/build up	No variation allowed	
Density of core	No variation allowed	
Mass per unit area	No variation allowed	
Air gap	40 mm between panel and substrate	
Substrate	Any A1 with a density of at least 75% of 50 kg/m ³	

5. Limitations

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

The laboratory has played no part in sampling of the product.

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6. References

BS EN 13501-1:2018 - Fire classification of construction products and building elements

BS EN 13823:2020+A1:2022 - Reaction to fire tests for building products. Building products excluding floorings exposed to the thermal attack by a single burning item

BS EN ISO 1716:2018 – Reaction to fire tests for products — Determination of the gross heat of combustion (calorific value)

EGOLF Reccommendation 003 - 2016

-End of Report-

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