

**System Laboratories UK LTD**  
**Classification Report**  
**Classification of reaction to fire**  
**performance of construction products and**  
**building elements in accordance with BS**  
**EN 13501-1:2018**

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Report Number 378  
Issue B  
Prepared for Fairview Europe Ltd t/a Valcan  
Date 03/07/2024

Issue	Date	Notes
A	17/08/2023	First issue
B	03/07/2024	Aluminium thickness extended to any


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## 1. Introduction

This classification report defines the classification assigned to SolidSafe, 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:	Information was provided and is kept by the laboratory on file. The information is withheld in the report for commercial reasons.
CAB Number:	N/A
Classification report No.:	378-B
Date of issue	03/07/2024

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## 2. Details of classified product

### 2.1. General

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

### 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 Bridgewater Somerset TA6 4FJ UK
Place of manufacture	Information was provided and is kept by the laboratory on file The information is withheld in the report for commercial reasons at the request of the sponsor
Trade name	SolidSafe
Sample description (as provided by sponsor)	Painted aluminium façade panel
<b>Product data (as provided by sponsor)</b>	
Generic type of product	Painted aluminium façade panel
Nominal thickness (mm)	1.2 (Provided by sponsor)
Density of core (kg/m <sup>3</sup> )	2710 (Provided by sponsor)
Mass per unit area (kg/m <sup>2</sup> )	3.2 (Provided by sponsor)
Colour	Any
Test face	Painted side of the Aluminium panel

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

**Substrate and ventilation conditioned**

Substrate Mineral Wool  
Type of air gap Standard 5.2.2a) in EN 13823:2020 - 40mm

## 2.4. Detailed product description

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

Pigmented Paint	Type of product/layer	Pigmented Paint
	Product/layer reference	Paint
	Thickness	0.6mm ± 0.1
	Colour	Any (tested red, white, black)
	Construction form	Paint applied on the aluminium sheet
Aluminium Sheet	Type of product/layer	Aluminium Sheet
	Product/layer reference	Aluminium Sheet
	Thickness	1.2mm
	Colour	Metallic
	Construction form	Aluminium Sheet
Substrate	Type of product/layer	Mineral wool
	Product/layer reference	Mineral wool
	Thickness	25mm
	Colour	Yellow/Brown
	Construction form	Mineral wool substrate in accordance with BS EN 13238:2010, fixed after standard air gap in accordance with BS EN 13823:2020 clause 5.2.2 a)

### 3. Reports and results in support of this classification

#### 3.1. Reports

Name of laboratory	Name of test sponsor	Test report No.	Test method/field of application
System Laboratories UK	Fairview Europe Ltd t/a Valcan	373A	BS EN 13823:2020 Indicative
System Laboratories UK	Fairview Europe Ltd t/a Valcan	374A	BS EN 13823:2020 Indicative
System Laboratories UK	Fairview Europe Ltd t/a Valcan	375A	BS EN 13823:2020 Indicative
System Laboratories UK	Fairview Europe Ltd t/a Valcan	376A	BS EN 13823:2023
System Laboratories UK	Fairview Europe Ltd t/a Valcan	377A	BS EN ISO 1716:2018

### 3.2. Results

Standard/Decision	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance with class A1
BS EN 13823:2020	FIGRA <sub>0.2</sub>	3	0 W/s	≤20 W/s <b>Compliant</b>
BS EN 13823:2020	THR <sub>600s</sub>	3	0.17 MJ	≤4 MJ <b>Compliant</b>
BS EN 13823:2020	LFS	3	No spread to edge	No spread to edge <b>Compliant</b>
BS EN 13823:2020	SMOGRA	3	0 m <sup>2</sup> /s <sup>2</sup>	≤30 m <sup>2</sup> /s <sup>2</sup> <b>Compliant</b>
BS EN 13823:2020	TSP <sub>600s</sub>	3	16.3 m <sup>2</sup>	≤50 m <sup>2</sup> <b>Compliant</b>
BS EN 13823:2020	Flaming Droplets	3	No Flaming Droplets	No Flaming Droplets <b>Compliant</b>
BS EN ISO 1716:2018 (b) Paint	MJ/m <sup>2</sup>	3	1.971 MJ/m <sup>2</sup>	≤4 MJ/m <sup>2</sup> <b>Compliant</b>
BS EN ISO 1716:2018 (a) Aluminium Sheet	MJ/kg	0	0 MJ/kg	≤3 MJ/kg <b>Compliant</b>
BS EN ISO 1716:2018 (e) Product as a whole	MJ/kg	3	0.597 MJ/kg	≤3 MJ/kg <b>Compliant</b>



## 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 SolidSafe, in relation to reaction to fire behaviour is classified:

Fire behaviour	Smoke production	Flaming droplets
A1	s	d

**Reaction to fire classification:**

**A1**

### 4.3. Field of application

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

Thickness	Aluminium - $\geq 1.2$ mm Paint - No variation allowed
Colour	Any (EGOLF 003-2016)
Composition	No variation allowed
Joints	Horizontal and Vertical
Substrate	Any A1 with a minimum density of $\geq 37.5$ kg/m <sup>3</sup>

## 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.



## 6. References

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

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

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

EGOLF Recommendation 003-2016

**-End of Report-**