

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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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-A |
| Date of issue | 17/08/2023 |

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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 |
| Product data (as provided by sponsor) | |
| Generic type of product | Painted aluminium façade panel |
| Nominal thickness (mm) | 1.2 (Provided by sponsor) |
| Density of core (kg/m ³) | 2710 (Provided by sponsor) |
| Mass per unit area (kg/m ²) | 3.2 (Provided by sponsor) |
| Colour | Any |
| Test face | Painted side of the Aluminium panel |

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

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 _{0.2} | 3 | 0 W/s | ≤20 W/s Compliant |
| BS EN 13823:2020 | THR _{600s} | 3 | 0.17 MJ | ≤4 MJ Compliant |
| BS EN 13823:2020 | LFS | 3 | No spread to edge | No spread to edge Compliant |
| BS EN 13823:2020 | SMOGRA | 3 | 0 m ² /s ² | ≤30 m ² /s ² Compliant |
| BS EN 13823:2020 | TSP _{600s} | 3 | 16.3 m ² | ≤50 m ² Compliant |
| BS EN 13823:2020 | Flaming Droplets | 3 | No Flaming Droplets | No Flaming Droplets Compliant |
| BS EN ISO 1716:2018 (b) Paint | MJ/m ² | 3 | 1.971 MJ/m ² | ≤4 MJ/m ² Compliant |
| BS EN ISO 1716:2018 (a) Aluminium Sheet | MJ/kg | 0 | 0 MJ/kg | ≤3 MJ/kg Compliant |
| BS EN ISO 1716:2018 (e) Product as a whole | MJ/kg | 3 | 0.597 MJ/kg | ≤3 MJ/kg Compliant |

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 | No variation allowed |
| Colour | Any (EGOLF 003-2016) |
| Composition | No variation allowed |
| Joints | Horizontal and Vertical |
| Substrate | Any A1 providing minimum density $\geq 37.5\text{kg/m}^2$ |

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-