

REACTION TO FIRE - CLASSIFICATION REPORT EUI-21-000379-Revision 1

This report cancels and replaces the 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
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Prepared by: Efectis UK/Ireland

Product name: VitraDual

Classification report No.: EUI-21-000379-Revision 1

Issue number: 2

Date of issue: 16th of December, 2021

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2. DOCUMENT TRACKING

| Revision Index. | Modification |
|-----------------|---|
| 0 | Original document |
| 1 | Some changes have been made on the address of the sponsor |

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 | <table border="1"> <tr> <td>Topcoat</td> <td> 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/m² 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 </td> </tr> <tr> <td>Primer</td> <td> 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/m² Colour: White Relative to the final product: 0.008% </td> </tr> <tr> <td>Metal sheet</td> <td> 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. </td> </tr> <tr> <td>Rear primer</td> <td> 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/m² Colour: Grey Relative to the final product: 1.45% It has been tested to ISO 1716 : 2018 as observed in Document No. 420456 </td> </tr> </table> | 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/m ² 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 |
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| Thickness | 3 mm | | | | | | | | |
| Mass per unit area | 8.13 kg/m ² 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 |
|---------------------|------------------------------------|-------------------------------------|--|
| EFFECTIS UK/Ireland | Fairview Europe Ltd. t/a Valcan | EUI-21-SBI-000379- Revision 1 | BS EN 13823 : 2020 |
| EFFECTIS UK/Ireland | Fairview Europe Ltd. t/a Valcan | EUI-21-HC-000379- Revision 1 | 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- Revision 1 | 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 | GSV (MJ/kg) | 3 | Topcoat PVDF Paint Red color | 18.60 (MJ/kg) | 1.10 (MJ/m ²) | - |
| EUI-21-HC- 000379- Revision 1 | | 3 | Polyester front primer coating | 17.48 (MJ/kg) | 0.12 (MJ/m ²) | - |
| WF 420456 | | 3 | Epoxy Primer | 29.12 (MJ/kg) | 0.35 (MJ/m ²) | - |

| | | | | | | |
|------------------------|---|----|-----------------------------------|------------------|------------------------------|-----|
| WF 420457 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