

REACTION TO FIRE - CLASSIFICATION REPORT EUI-22-000041

1. INTRODUCTION

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

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

Sponsor : Lime Green Products Ltd
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UNITED KINGDOM

Prepared by: Efectis UK/Ireland

Product name: Warmshell Internal

Classification report No.: EUI-22-000041

Issue number: 1

Date of issue: 25th of January, 2023

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2. DOCUMENT TRACKING

| Revision Index. | Modification |
|-----------------|-------------------|
| 0 | Original document |

3. DESCRIPTION OF THE PRODUCT

3.1. GENERAL

The product, Warmshell Internal, is defined as an internal insulation system.

3.2. PRODUCT DESCRIPTION

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

| Product description | |
|---------------------------|--|
| Trade mark | Warmshell Internal |
| Composition | Warmshell Board Adhesive Supplier: Lime Green Products Reference name: Warmshell Board Adhesive Thickness: 5 mm Application method: Using notched trowel Mass per unit area: 9 kg/m ² Relative to the final product: 27.5% (55 mm thick), 23% (115 mm thick) |
| | Warmshell Woodfibre Board Supplier: Lime Green Products Reference name: Warmshell Woodfibre Board Edge profile: Tongue and groove Density: 165 kg/m ³ (40 mm thick), 130 kg/m ³ (100 mm thick) Mass per unit area: 6.6 kg/m ² (40 mm thick), 13 kg/m ² (100 mm thick) Relative to the final product: 20% (55 mm thick), 33.2% (115 mm thick) |
| | Solo One coat Lime Plaster (Tested face) Supplier: Lime Green Products Reference name: Lime Green Solo Thickness: 10 mm Mass per unit area: 17 kg/m ² Relative to the final product: 52% (55 mm thick), 43.4% (115 mm thick) |
| | Solo reinforcing mesh (Embedded) Supplier: Lime Green Products Reference name: Solo Mesh Thickness: 0.5 mm Mass per unit area: 0.15 kg/m ² Relative to the final product: 0.5% (55 mm thick), 0.4% (115 mm thick) |
| Thickness | 55-115 mm |
| Mass per unit area | 32.75 kg/m ² (55 mm thick), 39.15 kg/m ² (115 mm thick) |
| Density | 595.4 kg/m ³ (55 mm thick), 340.4 kg/m ³ (115 mm thick) |
| Colour | White Plaster, Brown Woodfibre |

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 | Lime Green Products Ltd | EUI-22-SBI-000041 | BS EN 13823 : 2020 |
| EFFECTIS UK/Ireland | Lime Green Products Ltd | EUI-22-SFB-000041 | BS EN ISO 11925-2 : 2020 |

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-22-SBI-000041 | FIGRA _{0,2 MJ} (W/s) | 6 | 2.17 | - | |
| | FIGRA _{0,4 MJ} (W/s) | | 2.17 | - | |
| | THR _{600 s} (MJ) | | 0.39 | - | |
| | LFS | | - | Compliant | |
| | SMOGRA | | 0.00 | - | |
| | TSP _{600s} (m ²) | | 5.07 | - | |
| | Flaming droplets or particles | | - | Compliant | |
| BS EN ISO 11925-2 : 2020 EUI-22-SFB-000041 | Fs | 48 | - | Compliant | Compliant |
| | Filter paper | | - | Compliant | Compliant |

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, Warmshell Internal, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

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

i.e.B-s1,d0

| | |
|--|----------------|
| Reaction to fire classification | B-s1,d0 |
|--|----------------|

5.3. FIELD OF APPLICATION

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

| | |
|-----------------------------|--|
| Thickness | Valid for the thickness range of 55-115 mm |
| Density | Valid for the density not less than 595.4 kg/m ³ for 55 mm thickness – 340.4 kg/m ³ (for 115 mm thickness) |
| Type of product/facings | Valid for tested type of product only (same formulation as described in section 3.2) |
| Asymmetry | Valid for fire on Solo One coat Lime Plaster |
| Substrate | Valid for any end use wood based substrates and 337.5 ± 50 kg/m ³ density and also any end use substrate of classes A1 and A2-s1,d0 class |
| Air gaps / cavities | Valid without any air gap / cavity |
| Fixing of the test specimen | Valid to be adhered to the substrate with Warmshell Board Adhesive or secured with mechanical fixings. |

6. LIMITATIONS

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

SIGNED



Hamed Zoghi
Project leader

APPROVED



Damien Flammier
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