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Testing. Advising. Assuring.



Title:

CLASSIFICATION REPORT FOR ROOFS/ROOF COVERINGS EXPOSED TO EXTERNAL FIRE EN 13501-5: 2005 +A1: 2009

Notified Body No:

0833

Product Names:

A built up roof system incorporating solar panel referenced "JAP 6 (SE)"

Report No:

WF 372084

Issue No:

1

Prepared for:

SVH Energie 155 Rue Du Docteur Bauer 93400 Saint Ouen France

Date:

28th September 2016



1. Introduction

This classification report defines the classification assigned to a built up roof system incorporating solar panel referenced "JAP 6 (SE)", which is fully described in paragraph 2.2, in accordance with the procedures given in EN 13501-5: 2005: + A1: 2009

2. Details of classified product

2.1 General

The product, a built up roof system incorporating solar panel referenced "JAP 6 (SE)", is defined as being suitable for roof covering applications.

2.2 Product description

The product, a built up roof system incorporating solar panel referenced "JAP 6 (SE)", is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

| General description | | In-roof mounting system for a solar panel | | |
|--|--------------------------|---|--|--|
| Product reference of overall composite | | No product reference was assigned to this | | |
| · | | product | | |
| Name of manufactu | rer of overall composite | GSE | | |
| Thickness of overall composite | | See Note 1 Below | | |
| Weight per unit are | a of overall composite | See Note 1 Below | | |
| | Generic type | Solar panel | | |
| | Product reference | "JAP 6 (SE)" | | |
| | Detailed description | Solar panel made of aluminium, glass and | | |
| Solar panel | | polycrystal | | |
| Solai pariei | Name of manufacturer | JA Solar | | |
| | Thickness | 40mm | | |
| | Weight per unit area | See Note 1 Below | | |
| | Flame retardant details | See Note 2 Below | | |
| | Generic type | Concrete roofing tile | | |
| | Product reference | "Marley Mendip Roofing Tile" | | |
| | Name of supplier | "Marley Mendip" | | |
| Concrete tile | Colour reference | "Brown" | | |
| | Dimensions | 30mm x 340mm (60mm to height of profile) | | |
| | Weight per unit area | 32kg/m ² | | |
| | Flame retardant details | See Note 2 Below | | |
| | Generic type | Polypropylene | | |
| Moulded tray | Product reference | "GSE Portrait 1640/992" | | |
| | Name of manufacturer | GSE | | |
| | Thickness | 13mm | | |
| | Weight per unit area | 2.5kg/m ² | | |
| | Colour reference | "Black" | | |
| | Flame retardant details | See Note 2 Below | | |

Continued on next page

| | Generic type | Wood battens |
|----------------------|-------------------------|-------------------------------------|
| Timber battens | Product reference | "Pine Tree Battens" |
| | Name of manufacturer | See Note 3 Below |
| | Dimensions | 25mm x 45mm |
| | Density | 380kg/m ³ |
| | Colour reference | "Natural" |
| | Flame retardant details | See Note 2 Below |
| | Generic type | Roof underlay |
| | Product reference | "Easytrim Master Breather Membrane" |
| | Name of supplier | Travis Perkins |
| Roofing felt | Colour reference | "Grey" |
| | Thickness | 0.4mm |
| | Weight per unit area | 117.5g/m ² |
| | Flame retardant details | See Note 2 Below |
| | Generic type | Wood battens |
| | Product reference | "Pine Tree Battens" |
| Timber joist | Name of manufacturer | See Note 3 Below |
| | Dimensions | 45mm x 95mm |
| | Density | 380kg/m ³ |
| | Colour reference | "Natural" |
| | Flame retardant details | See Note 2 Below |
| Brief description of | manufacturing process | See Note 3 Below |

Note 1: The sponsor was unable to provide this information.

Note 2: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product / component.

Note 3: The sponsor was unwilling to provide this information.

3. Test reports & test results in support of classification

3.1 Test reports

| Name of Laboratory | Name of sponsor | Test reports/extended application report Nos. | Test method / extended application rules & date |
|-------------------------|-----------------|--|---|
| Exova warringtonfire | SVH Energie | WF 366139 | ENV 1187:2002 Test 4 |

3.2 Test results

3.2.1 Test 4

Test pitch: 45 degrees

Substrate/Deck: N/A

Supporting structure: Timber Joist

Preliminary test (Stage 1):

| | Criteria | Test Results | Compliance | |
|-----------------------|------------------------|--------------|------------------------|--|
| Parameter | Class | Specimen 1 | Class | |
| | B _{ROOF} (t4) | Specimen 1 | B _{ROOF} (t4) | |
| Burn time | <5min | NIL | Υ | |
| Flame spread distance | <0,38m | NIL | Υ | |
| Penetration | None | None | Υ | |

Penetration test (Stage 2):

| Damamatan | Criteria | Test Results | | | Complianc e | |
|------------------|---------------------------------|--------------|------------|------------|----------------|---------------------------------|
| Parameter | Class B _{ROOF} (t4) | Specimen 1 | Specimen 2 | Specimen 3 | Mean a | Class B _{ROOF} (t4) |
| Penetration time | ≥60min | 60min | 60min | 60min | 60min | Υ |

^a If one or two of the specimens have not failed at one hour, a time of 60min shall be used in calculating the mean time of penetration.

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-5: 2005: + A1: 2009

4.2 Classification

The product, a built up roof system incorporating solar panel referenced "JAP 6 (SE)", in relation to its external fire performance is classified:



4.3 Field of application

This classification is valid for the following conditions:

Range of pitches >10 degrees

Substrate/Deck N/A

Product configuration No variation allowed Product composition No variation allowed Product construction No variation allowed Product thickness No variation allowed Supporting structure No variation allowed

5. Limitations

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

SIGNED

APPROVED

Mathew Dale

Senior Certification Engineer Technical Department Janet Murrell

Technical Manager Technical Department on behalf of:

Exova Warringtonfire

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