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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 "Risen RSM-60-6-250P"

Report No:

WF 372633

Issue No:

1

Prepared for:

SVH Energie 155 Rue Du Docteur Bauer 93400 Saint Ouen France

Date:

10th October 2016



1. Introduction

This classification report defines the classification assigned to a built up roof system incorporating solar panel referenced "Risen RSM-60-6-250P", 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 "Risen RSM-60-6-250P", is defined as being suitable for roof covering applications.

2.2 Product description

The product, a built up roof system incorporating solar panel referenced "Risen RSM-60-6-250P", 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 manufacturer of overall composite		GSE	
Thickness of overall composite		See Note 1 Below	
Weight per unit area of overall composite		See Note 1 Below	
	Generic type	Solar panel	
	Product reference	"Risen RSM-60-6-250P"	
	Detailed description	Solar panel made of aluminium, glass and	
Solar papel		polycrystal	
Solar panel	Name of manufacturer	Risen	
	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

Timber battens	Generic type	Wood 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"
Roofing felt	Name of supplier	Travis Perkins
	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
Timber joist	Product reference	"Pine Tree Battens"
	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 363613	ENV 1187:2002 Test 4

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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	Y	
Flame spread distance	<0,38m	NIL	Y	
Penetration	None	None	Y	

Penetration test (Stage 2):

Parameter Class		Test Results			Complianc	
		Specimen Specimen Specimen Mean				e Class
		Specimen	Specimen	Specimen		
	B _{ROOF} (t4)	1	2	3	а	B _{ROOF} (t4)
Penetration time	≥60min	60min	60min	60min	60min	Y
^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 "Risen RSM-60-6-250P", in relation to its external fire performance is classified:

B_{ROOF} (t4)

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4.3 Field of application

This classification is valid for the following conditions:

Range of pitches Substrate/Deck Product configuration Product composition Product construction Product thickness Supporting structure >10 degrees N/A No variation allowed No variation allowed No variation allowed No variation allowed No variation allowed

5. Limitations

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

SIGNED

APPROVED

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Mathew Dale Senior Certification Engineer Technical Department

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Janet Murrell Technical Manager Technical Department on behalf of: Exova Warringtonfire

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