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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:

"PIR Glass Tissue"

Report No:

317758

Issue No:

1

Prepared for:

Carlisle Syntec Europe B.V.
P.O. Box 110
AC Zevenaar
6900, The Netherlands

Date:

11^h May 2012

1. Introduction

This classification report defines the classification assigned to "PIR Glass Tissue", a composite roofing material, 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, "PIR Glass Tissue", a composite roofing material, is defined as being suitable for roof covering applications.

2.2 Product description

The product, "PIR Glass Tissue", a composite roofing material is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description	A composite waterproof roofing material
Product reference	"PIR Glass Tissue"
Overall thickness	142mm (stated by sponsor) 141.3mm (determined by Exova Warringtonfire)
Overall weight per unit area	18.8kg/m ² (stated by sponsor) 18.9kg/m ² (determined by Exova Warringtonfire)
Specimen configuration	<ul style="list-style-type: none"> • RubberBond FleeceBack EPDM • Adhesive • PIR glass tissue • Mechanical fixing • VCL • Mechanical fixing • OSB3

Continued on next page

Waterproof membrane	Generic type		Waterproof membrane comprising EPDM coated polyester fleece	
	Product reference		"RubberBond FleeceBack EPDM"	
	Name of manufacturer		Carlisle Syntec	
	Thickness		2.54mm	
	Weight per unit area		2.1kg/m ²	
	EPDM	Generic type		EPDM
		Product reference		See Note 1 below
		Name of manufacturer		See Note 1 below
		Number of coats		One
		Thickness per coat		1.14mm
		Weight per unit area / density		See Note 1 below
		Colour reference		"Slate Grey"
	Flame retardant details		See Note 2 below	
	Polyester fleece	Generic type		Polyester fleece
		Product reference		See Note 1 below
Name of manufacturer		See Note 1 below		
Thickness		1.4mm		
Weight per unit area / density		See Note 1 below		
Colour reference		See Note 1 below		
Flame retardant details		See Note 2 below		
Adhesive	Product reference		"WBA"	
	Generic type		Acrylic adhesive	
	Name of manufacturer		See Note 3 below	
	Application rate		250ml/m ²	
	Colour reference		"White"	
Flame retardant details		See Note 2 below		
Glass tissue faced insulation	Generic type		Glass tissue faced PIR insulation	
	Product reference		"PIR Glass Tissue"	
	Name of manufacturer		See Note 3 below	
	Thickness		120mm	
	Weight per unit area		5.6kg/m ²	
	Product configuration		<ul style="list-style-type: none"> • Glass tissue • Insulation • Glass tissue 	
	Glass tissue facing	Product reference		See Note 1 below
		Generic type		Glass tissue
		Name of manufacturer		See Note 1 below
		Thickness		See Note 1 below
		Density / weight per unit area		See Note 1 below
		Colour reference		See Note 1 below
	Flame retardant details		See Note 1 below	
	Bonding details		The facing is auto-adhesively bonded to the foam during the manufacturing process	
	Insulation	Product reference		See Note 1 below
		Generic type		PIR insulation
		Name of manufacturer		See Note 1 below
		Thickness		See Note 1 below
Density / weight per unit area		See Note 1 below		
Colour reference		"Yellow"		
Flame retardant details		See Note 1 below		

Mechanical fixings (Insulation to vapour control layer)	Product reference	"Carlisle HP Fasteners / 75mm Plate Washers"
	Generic type	Steel fastener / plate washers
	Name of manufacturer	Carlisle Syntec
	Application rate	3 per m ²
	Colour reference	"Grey"
	Flame retardant details	See Note 2 below
Vapour control layer	Product reference	"VCL"
	Generic type	Polythene
	Name of manufacturer	See Note 4 below
	Weight per unit area	0.02kg/m ²
	Thickness	0.25mm
	Colour reference	"Black"
Flame retardant details	See Note 2 below	
Mechanical fixings (vapour control layer to OSB deck)	Product reference	"Carlisle HP Fasteners / 75mm Plate Washers"
	Generic type	Steel fastener / plate washers
	Name of manufacturer	Carlisle Syntec
	Application rate	3 per m ²
	Colour reference	Grey
Flame retardant details	See Note 2 below	
Deck (reverse face)	Product reference	"OSB3"
	Generic type	OSB3
	Species	See Note 1 below
	Name of manufacturer	See Note 1 below
	Weight per unit area	11.1kg/m ²
	Thickness	18mm
Flame retardant details	See Note 2 below	
Brief description of manufacturing process		See Note 1 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 of the test has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are instead held on the confidential file relating to this investigation.

Note 4. The sponsor was unwilling to provide this information.

The description of the specimens as given above is not as detailed as would usually be the case for descriptions included in **Exova Warringtonfire** test reports and the description may not fully comply with the requirements of the test standard. In all other respects however the tests were conducted fully in accordance with the requirements of the test standard and the test results are valid.

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	Carlisle Syntec Europe B.V.	WF 316069	ENV 1187:2002 Test 4

3.2 Test results

3.2.1 Test 4

Test pitch: 0 degrees

Substrate/Deck: 18mm thick OSB board

Supporting structure: N/A

Preliminary test (Stage 1):

Parameter	Criteria	Test Results	Compliance
	Class B _{ROOF} (t4)	Specimen 1	Class B _{ROOF} (t4)
Burn time	<5min	01:50	Y
Flame spread distance	<0,38m	NIL	Y
Penetration	None	None	Y

Penetration test (Stage 2):

Parameter	Criteria	Test Results				Compliance
	Class B _{ROOF} (t4)	Specimen 1	Specimen 2	Specimen 3	Mean ^a	Class 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, "PIR Glass Tissue", a composite roofing material, in relation to its external fire performance is classified:

B_{ROOF} (t4)

4.3 Field of application

This classification is valid for the following conditions:

Range of pitches	0 - 10 degrees
Substrate/Deck	18mm OSB board
Product configuration	No variation allowed
Product composition	No variation allowed
Product application method	No variation allowed
Product thickness	No variation allowed
Product colour	No Variation allowed
Supporting structure	N/A

5. Limitations

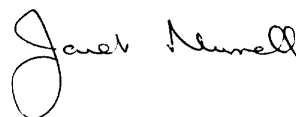
This document does not represent type approval or certification of the product

SIGNED



.....
Mathew Dale
Certification Engineer
Technical Department

APPROVED



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

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