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Testing. Advising. Assuring.

Title:

CLASSIFICATION OF
REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1:2007+A1:2009

Notified Body No:

0833

Product Name:

"ATRIUM"

Report No:

WF 338265

Issue No:

1

Prepared for:

Forbo Flooring UK Limited
Unit 92, Seedlee Road
Walton Summit
Preston
PR5 8AE

Date:

21st March 2014



1. Introduction

This classification report defines the classification assigned to "ATRIUM", a tufted bitumen backed carpet tile, in accordance with the procedures given in EN 13501-1:2007+A1:2009.

2. Details of classified product

2.1 General

The product, "ATRIUM", a tufted bitumen backed carpet tile, as defined in the EN 14041, suitable for flooring applications.

2.2 Product description

The product, "ATRIUM", a tufted bitumen backed carpet tile, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Tufted bitumen backed carpet tile which was bonded to a fibre cement board substrate utilising "Balls F46" adhesive
Product reference		"ATRIUM"
Overall thickness		15.46mm (determined by Exova Warringtonfire)
Overall weight per unit area		19.20kg/m ² (determined by Exova Warringtonfire)
Carpet	Product reference of floorcovering	"ATRIUM"
	Name of manufacturer of floorcovering	Forbo Flooring (UK) Ltd
	Overall thickness of floorcovering	6.90mm
	Overall weight per unit area of floorcovering	4600g/m ²
	Pile	Product reference
		"Yarn"
		Generic type
		Polyamide
		Name of manufacturer
		Aquaflil
		Pile height above the backing
		3.5mm
		Pile weight above the backing
		360g/m ²
		Weight per unit area
		700g/m ²
		Flame retardant details
		See Note 1 Below
	Latex tuft lock	Product reference
		"Latex"
		Generic type
		Antistatic latex
		Name of manufacturer
		ILC
		Thickness
		0.6mm
		Weight per unit area
		700g/m ²
		Flame retardant details
		See Note 1 Below
	Primary backing	Product reference
		"SM/TM"
		Generic type
		Spunbond nylon
		Name of manufacturer
		Bonar
		Thickness
		0.2mm
		Weight per unit area
		100g/m ²
		Flame retardant details
		See Note 1 Below

Continued on next page

	Hot-melt lamination adhesive	Product reference	"Bitumix"
		Generic type	Composite of polymer modified bitumen (PMB) cariphate + limestone
		Name of manufacturer	Total/Longcliffe
		Thickness	2.4mm
		Weight per unit area	3000g/m ²
		Flame retardant details	See Note 1 Below
	Secondary backing	Product reference	"Secondary Backing"
		Generic type	Polyester
		Name of manufacturer	Johns Manville
		Thickness	0.2mm
		Weight per unit area	100g/m ²
		Flame retardant details	See Note 1 Below
	Adhesive	Generic type	Acrylic based adhesive
		Product reference	"Balls F46"
		Name of manufacturer	F Ball & Co. Ltd.
		Application rate	180g/m ²
		Application method	'V' notched trowel
		Flame retardant details	See Note 1 Below
	Substrate	Trade name	"NT D4 604"
		Generic type	Fibre cement board
		Supplier	Scheerders van de Kerkhove (SVK)
		Thickness	8mm
		Density	1800 ± 200 kg/m ³
	Brief description of manufacturing process		Tufting, latexing, laminating, cutting

Note 1: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

3. Test reports & test results in support of classification

3.1 Test reports

Name of Laboratory	Name of sponsor	Test report Nos.	Test method
Exova Warringtonfire	Forbo Flooring UK Limited	WFR 337944	EN ISO 9239-1
Exova Warringtonfire	Forbo Flooring UK Limited	WFR 337945	EN ISO 11925-2

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 9239-1	Critical Heat Flux (kW/m ²)	3	8.8 kW/m ²	Compliant
	Smoke (% x min)		89.81 %	Compliant
EN ISO 11925-2 15 s surface exposure	Flame spread (mm)	6	30mm	Compliant
EN ISO 11925-2 15 s edge exposure	Flame spread (mm)		40mm	Compliant

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 12 of EN 13501-1:2007+A1:2009

4.2 Classification

The product, "ATRIUM", a tufted bitumen backed carpet tile, in relation to its reaction to fire behaviour is classified:

Reaction to fire classification: B_{FL}-s1

4.3 Field of application

This classification is valid for the following end use applications:

- i) Flooring applications
- ii) Bonded to any substrate of class A2_{fl} or better, with a thickness of 8mm or higher and a density of 1800kg/m³ or higher utilising "Styccobond F46", an acrylic based adhesive

This classification is also valid for the following product parameters:

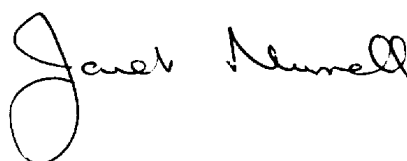
Product thickness	No variation allowed
Product mass per unit area	No variation allowed
Product composition	No variation allowed
Colour and design	Any colour and design, unless different colour and design change the composition, thickness or mass per unit area

SIGNED



.....
Matthew Dale
Certification Engineer

APPROVED



.....
Janet Murrell
Technical Manager
on behalf of **Exova Warringtonfire**

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