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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:

"Flotex Sheet"

Report No:

WF 350566

Issue No:

1

Prepared for:

Forbo Flooring UK Limited
High Holborn Road
Ripley
Derbyshire
DE5 3NT

Date:

20th March 2015



1. Introduction

This classification report defines the classification assigned to "Flotex Sheet", a flocked floor covering, in accordance with the procedures given in EN 13501-1:2007+A1:2009

2. Details of classified product

2.1 General

The product, "Flotex Sheet", a flocked floor covering is defined as a textile floor covering tile as defined in the EN 14041, suitable for flooring applications.

2.2 Product description

The product, "Flotex Sheet", a flocked floor covering, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Flocked floor covering which was tested loose laid over an fibre cement board substrate	
Carpet tile	Product reference of carpet tile	"Flotex Sheet"	
	Name of manufacturer of carpet tile	Forbo Flooring UK Limited	
	Overall thickness of carpet tile	4.3mm (stated by sponsor) 4.33mm (determined by Exova Warringtonfire)	
	Overall weight per unit area of carpet tile	1815g/m ² (stated by sponsor) 1795.1g/m ² (determined by Exova Warringtonfire)	
	Colour reference of carpet tile	Any colour / pattern	
	Pattern reference of carpet tile	"8977"	
	Pile	Product reference	"RA 110"
		Generic type	Polyamide 6,6
		Name of manufacturer	See Note 1 Below
		Pile height above the backing	2mm
		Weight per unit area	250g/m ²
		Flame retardant details	See Note 2 Below
	Adhesive layer	Generic type	PVC plastisol compound
		Product reference	"RWP04 Adhesive"
		Detailed description	Adhesive layer containing antimicrobial and flame retardant additives
Name of manufacturer		Forbo Flooring UK Limited	
Thickness		0.25mm	
Weight per unit area		340g/m ²	
Trade name of flame retardant		"Pre-Mixed Ingredients"	
Generic type of flame retardant		Antimony trioxide/zinc borate	
Amount of flame retardant	11g/m ²		

Continued on next page

Primary backing	Product reference	"RA 147 RA 152"
	Generic type	Reinforced fibreglass non woven
	Name of manufacturer	See Note 1 Below
	Thickness	0.55mm
	Weight per unit area	90g/m ²
	Flame retardant details	<i>See Note 2 Below</i>
Backing	Product reference	"RWP15"
	Generic type	Waterproof vinyl backing
	Name of manufacturer	Forbo Flooring UK Limited
	Thickness	2.10mm
	Weight per unit area	1150g/m ²
	Flame retardant details	<i>See Note 2 Below</i>
Substrate	Product reference	"NT D4 604"
	Generic type	Fibre cement board
	Name of supplier	Scheerders van de Kerkhove (SVK)
	Thickness	8mm
	Density	1800kg/m ³
Brief description of manufacturing process utilised in the production of the carpet tile		The primary backing is coated with a cushion backing and is then inverted and coated with the adhesive layer. The pile is then electrostatically flocked into the adhesive layer. After curing the product is printed and cut to final roll lengths

Note 1: 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 2: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product

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 350329	EN ISO 9239-1
Exova Warringtonfire	Forbo Flooring UK Limited	WFR 350330	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	8.4 kW/m ²	Compliant
	Smoke (% x min)		114 %	Compliant
EN ISO 11925-2 15 s surface exposure	Flame spread (mm)	6	20 mm	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, "Flotex Sheet", a flocked floor covering, 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) Used over any substrate of class A2_{fl} or better, with a density of 1800 kg/m³ or higher
- iii) Loose laid or with adhesive

This classification is also valid for the following product parameters:

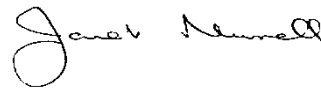
Product thickness	No variation allowed
Product mass per unit area	No variation allowed
Product composition	No variation allowed
Colour and design	Any colour and design, unless different colour and design change the composition, thickness or mass per unit area

SIGNED



.....
Matthew Dale
Certification Engineer

APPROVED



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

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