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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 399550

Issue No:

1

Prepared for:

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

Date:

8th May 2018



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.

Gen	eral descrip	tion	Flocked floor covering which was tested loose laid over an fibre cement board substrate	
	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)	
	Overall tric	ckness of carper the	4.33mm (determined by Exova Warringtonfire)	
	Overall we	ight per unit area of carpet tile	1815g/m² (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 "	
		Product reference	"RA 110"	
		Generic type	Polyamide 6,6	
tile	Pile	Name of manufacturer	See Note 1 Below	
t til		Pile height above the backing	2mm	
be.		Weight per unit area	250g/m ²	
Carpet		Flame retardant details	See Note 2 Below	
		Generic type	PVC plastisol compound	
		Product reference	"RWP04 Adhesive"	
		Detailed description	Adhesive layer containing antimicrobial and flame	
			retardant additives	
	Adhesive	Name of manufacturer	Forbo Flooring UK Limited	
	layer	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

		Product reference	"RA 147 RA 152"	
Carpet tile cont	Primary backing	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	See Note 2 Below	
	Backing	Product reference	"RWP15"	
		Generic type	Waterproof vinyl backing	
Sar		Name of manufacturer	Forbo Flooring UK Limited	
		Thickness	2.10mm	
		Weight per unit area	1150g/m ²	
		Flame retardant details	See Note 2 Below	
		Generic type	Fibre cement board or Wood based particle board	
	Thickness Substrate		8mm Fibre cement board or 20mm thick Wood based particle board	
		Density	Fibre cement board (1800kg/m³) or Wood based particle board (680kg/m³)	
Brie	f description o	f manufacturing process utilised	The primary backing is coated with a cushion backing	
in the production of the carpet tile			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

Test reports & test results in support of classification Test reports 3.

3.1

Name of Laboratory	Name of sponsor	Test report Nos.	Test method	
Exova Warringtonfire	Forbo Flooring UK Limited	WF 350329	EN ISO 9239-1	
Exova Warringtonfire	Forbo Flooring UK Limited	WF 350330	EN ISO 11925-2	
Cret	Cret Forbo Flooring RL 2017/815-3 EN ISO		EN ISO 9239-1	
Cret	Forbo Flooring	RL 2017/815-4	EN ISO 11925-2	
Exova Warringtonfire	Forbo Flooring UK Limited	WF 350566 EN 13501		
Exova Warringtonfire	Forbo Flooring UK Limited	WF 399549	EN/TS 15117	

Test results

3.2 Test result	3			
Test method &	Parameter	No. tests	Results	
test number			Continuous parameter - mean (m)	Compliance parameters
EN ISO 9239-1	Critical Heat Flux (kW/m²) Smoke (% x min)	3, 3	8.4 kW/m² (Fibre Cement Board substrate) 10.1 kW/m² (Wood based particle board substrate) 114.2% (Fibre Cement Board substrate) 153.4% (Wood based particle board substrate)	Compliant
EN ISO 11925-2 15 s surface exposure	Flame spread (mm)	6, 6	20 mm (Fibre Cement Board substrate) Nil (Wood based particle board substrate)	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, used over any substrate of class C_{FL}-s1 or better, with a density of 680 kg/m³ or higher.
- ii) 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 APPROVED

Matthew Dale

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on behalf of Exova Warringtonfire

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