

Exova Warringtonfire
Holmesfield Road
Warrington
WA1 2DS
United Kingdom

T : +44 (0) 1925 655 116
F : +44 (0) 1925 655 419
E : warrington@exova.com
W: www.exova.com



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 Tile"

Report No:

312666

Issue No:

2

Prepared for:

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

Date:

9th November 2011



1. Introduction

This classification report defines the classification assigned to "Flotex Tile", a family of Flocked floorcovering tiles, in accordance with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product, "Flotex Tile", a family of Flocked floorcovering tiles, is defined as being suitable for floorcovering applications.

2.2 Product description

The product, "Flotex Tile", a family of Flocked floorcovering tiles, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		A flocked floorcovering	
Carpet tile	Product reference	"Flotex Tile"	
	Name of manufacturer	Forbo Flooring UK Limited	
	Thickness	5.3mm	
	Weight per unit area	4500g/m ²	
	Pattern / style reference	Any pattern	
	Colour reference	Any colour	
	Pile	Product reference	"RA 110"
		Generic type	Nylon 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	The manufacturer stated that no flame retardant additives were utilised in the production of the material
	Primary Backing	Product reference	"RA147 / RA 152"
		Generic type	Scrim reinforced fibreglass nonwoven
		Name of manufacturer	See 'Note 1' below
Thickness		0.55mm	
Weight per unit area		90g/m ²	
Flame retardant details		The manufacturers stated that no flame retardant additives were utilised in the production of the material	

Continued on next page

Carpet tile continued...	Backing	Product reference	"RWP04 Adhesive"
		Generic type	PVC plastisol compound
		Name of manufacturer	Forbo Flooring UK Ltd.
		Thickness	0.25mm
		Weight per unit area	370 g/m ² nominal
		Flame retardant details	See 'Note 1' below
	Back coating	Product reference	"RWP14 / Recycled Vinyl Backing"
		Generic type	Recycled vinyl backing laminated to the pile surface with a PVC plastisol
		Name of manufacturer	Forbo Flooring Ltd
		Thickness	2.5mm
		Weight per unit area	3790g/m ²
		Flame retardant details	The manufacturers stated that no flame retardant additives were utilised in the production of the material
Substrate	Trade name	"NT D4 604"	
	Generic Description	Fibre cement board	
	Supplier	Scheerder van de Kerkhove (SVK)	
	Overall thickness	6mm	
	Overall density	1800 ± 200kg/m ²	
Brief description of manufacturing process utilised in the production of the carpet tile		The back coating is applied to the fibreglass nonwoven. After gelling, the material is inverted and the flock adhesive is applied. The pile is then electrostatically flocked into the adhesive. After curing, the product is printed. A recycled vinyl backing is then laminated to the back using a PVC plastisol before being cut into tiles.	

Note 1 – The sponsor provided this information but at the specific request of the sponsor, this information has been omitted from the test report and is instead held on our confidential file relating to this investigation.

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	Forbo Flooring UK Limited	WARRES 125058, 125059, 125060, 125061, 125062 WF No. 312675	EN ISO 9239-1
Exova Warringtonfire	Forbo Flooring UK Limited	WARRES 125071	EN ISO 11925-2
Exova Warringtonfire	Forbo Flooring UK Limited	WF 312665	EN/TS 15117

3.2 Test results

Test method & test number		Parameter	No. tests	Results	
				Continuous parameter - mean (m)	Compliance with parameters
EN ISO 9239-1		Critical flux	3, 3, 1, 1, 1, 1, 1	8.5, 9.2, 9.8, 10.0, 9.7, 10, 10.8	Compliant
		Smoke		293.27, 398.24, 324.31, 258.17, 270.78, 226.54, 251.66	Compliant
EN ISO 11925-2	(15s exposure – surface of decorative face)	F _s	6	50	Compliant
		Flaming droplets/particles		None	Compliant
	(15s exposure – edge of decorative face)	F _s	6	57	Compliant
		Flaming droplets/particles		None	Compliant

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 9 of EN 13501-1:2007+A1:2009.

4.2 Classification

The product, "Flotex Tile", a family of Flocked floorcovering tiles, in relation to its reaction to fire behaviour is classified:

B_{FL}

The additional classification in relation to smoke production is:

s1

The format of the reaction to fire classification for floorings is:

Fire Behaviour		Smoke Production	
B _{FL}	-	s	1

i.e. B_{FL} – s1

Reaction to fire classification: B_{FL} – s1

4.3 Field of application

This classification is valid for the following end use applications:

- i) Floorcovering applications applied over any substrate with a minimum density of 1800kg/m³, having a minimum thickness of 6mm and a fire performance of A2_{FL} or better.
- ii) Loose laid or bonded with acrylic adhesive specified by Forbo Flooring UK Limited

This classification is also valid for the following product parameters:

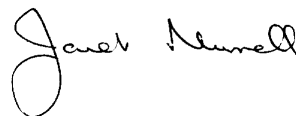
- Total thickness No variation allowed
- Total weight No variation allowed
- Colour Any colour allowed
- Pattern Any pattern allowed
- Application Loose laid or Bonded
- Adhesive Bonded with acrylic adhesive specified by Forbo Flooring UK Limited

SIGNED



Matthew Dale
Certification Engineer
Technical Department

APPROVED



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

This copy has been produced from a .pdf format electronic file that has been provided by Exova Warringtonfire to the sponsor of the report and must only be reproduced in full. Extracts or abridgements of reports must not be published without permission of Exova Warringtonfire. The original signed paper version of this report is the sole authentic version. Only original paper versions of this report bear authentic signatures of the responsible Exova Warringtonfire staff.