

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 AcousticPlus"

Report No:

WF 401817

Issue No:

1

Prepared for:

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

Date:

15th October 2018



1. Introduction

This classification report defines the classification assigned to "Flotex AcousticPlus", a 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, "Flotex AcousticPlus", is defined as being suitable for floorcovering applications.

2.2 Product description

The product, "Flotex AcousticPlus", is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Carpet tile	
Product reference		"Flotex AcousticPlus"	
Name of manufacturer		Forbo Flooring UK Ltd	
Overall thickness		5.90mm (stated by sponsor) 5.99mm (determined by Exova Warringtonfire)	
Overall weight per unit area of floor covering		2600g/m ² (stated by sponsor) 2545.60g/m ² (determined by Exova Warringtonfire)	
Pattern / style reference of mat		"Metro Grey"	
Batch Reference		"Lot 3956"	
Colour reference		"Grey"	
Floor covering	Pile	Product Reference	"150XYD"
		Generic Type	Nylon 6.6
		Name of Manufacturer	Invista
		Weight per unit area	250g/m ²
		Pile Height above the backing	2.0mm
		Colour reference	Grey background with multicolour print
		Flame retardant details	See Note 1 Below
	Fibreglass reinforcement	Product Reference	"F5519"
		Generic Type	Fibreglass nonwoven
		Detailed Description	Wet laid nonwoven with polymeric binder
		Name of Manufacturer	Owens Corning BV
		Weight per unit area	58g/m ²
		Thickness	0.55mm
		Colour	"White"
	Flame retardant details	See Note 1 Below	
	Scrim reinforcement	Product Reference	"2 x 1.5 fibreglass scrim"
		Generic Type	Laid fibreglass scrim
		Name of Manufacturer	Fothergill Crenette
		Weight per unit area	28g/m ²
		Thickness	0.5mm
		Colour	"White"
Flame retardant details	See Note 1 Below		

Continued on next page

Floor covering	Pile adhesive	Product Reference	"RWP02"
		Generic Type	PVC plastisol
		Name of Manufacturer	Forbo Flooring UK Ltd
		Weight per unit area	370g/m ²
		Thickness	0.3mm
		Colour	"Grey"
		Trade name of flame retardant	See Note 2 Below
		Generic type of flame retardant	See Note 2 Below
	Amount of flame retardant	Approx. 2%	
	Back Coating	Product Reference	"RWP14"
		Generic Type	PVC plastisol
		Name of Manufacturer	Forbo Flooring UK Ltd
		Weight per unit area	1180g/m ²
		Thickness	1.0mm
		Colour	"Grey"
	Flame retardant details	See Note 1 Below	
	Backing	Product Reference	"NP700C/GY"
		Generic Type	Recycled Polyester needlefelt
		Name of Manufacturer	Cosmotec Ltd
		Weight per unit area	700g/m ²
		Thickness	3.3mm
Colour		"Grey"	
Flame retardant details	See Note 1 Below		
Brief description of manufacturing process of the floor covering		<p>A back coating is applied to a fibreglass non-woven. After gelling the material is inverted and the flock adhesive is applied. The pile is then electrostatically flocked into the wet adhesive. After curing, the product is printed.</p> <p>After printing, an acoustic backing layer is attached before the product is cut into tiles</p>	

Note 1: The sponsor of the test has confirmed that no flame retardants were used in the production of this component.

Note 2: 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.

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	WF 401217	EN ISO 11925-2
Exova warringtonfire	Forbo Flooring UK Limited	WF 401216	EN ISO 9239-1

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	8.74 kW/m ²	Compliant
		Smoke		135.62 %min	Compliant
EN ISO 11925-2	(15s exposure – surface of decorative face)	F _s	6	33.3mm	Compliant
		Flaming droplets/ particles		None	Compliant
	(15s exposure – edge of decorative face)	F _s	6	40mm	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 AcousticPlus", a carpet tile, in relation to its reaction to fire behaviour is classified:

BFL

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) Installed with or without adhesive.

This classification is also valid for the following product parameters:

Floorcovering thickness	No variation allowed
Floorcovering weight per unit area	No variation allowed
Floorcovering composition	No variation allowed
Floorcovering construction	No variation allowed
Colour/Pattern	Any variation allowed

5. Limitations

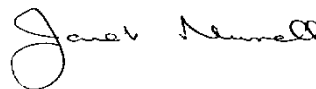
This document does not represent type approval or certification of the product.

SIGNED



.....
Matthew Dale
Senior 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 pdf copy supplied is the sole authentic version of this document. All pdf versions of this report bear authentic signatures of the responsible Exova Warringtonfire staff.