

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:**

"Format"

**Report No:**

331383

**Issue No:**

1

**Prepared for:**

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

**Date:**

2<sup>nd</sup> September 2013

## 1. Introduction

This classification report defines the classification assigned to "Format", 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, "Format", a tufted bitumen backed carpet tile, as defined in the EN 14041, suitable for flooring applications.

### 2.2 Product description

The product, "Format", 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 "Eurocol 540" adhesive
Overall weight per unit area		20.21kg/m <sup>2</sup> (determined by <b>Exova Warringtonfire</b> )
Overall thickness		15.26mm (determined by <b>Exova Warringtonfire</b> )
Carpet tile	General description	Tufted bitumen backed carpet tile
	Product reference of carpet tile	"Format"
	Name of manufacturer of carpet tile	Forbo Flooring (UK) Ltd
	Overall thickness of carpet tile	6.10mm
	Overall weight per unit area of carpet tile	4010g/m <sup>2</sup>
	Pattern reference of carpet tile	Any colour / pattern
	Pile	Product reference
		"Yarn"
		Generic type
		Polyamide
		Name of manufacturer
		Aquafil
	Latex tuft lock	Pile height above the backing
		3.5mm
		Pile weight above the backing
		300g/m <sup>2</sup>
		Flame retardant details
		See Note 1 Below
	Primary backing	Product reference
		"Antistatic Latex"
		Generic type
		Latex
		Name of manufacturer
		ILC
	Primary backing	Thickness
		0.6mm
		Weight per unit area
		600g/m <sup>2</sup>
		Flame retardant details
		See Note 1 Below
	Primary backing	Product reference
		"SM/TM"
		Generic type
		Spunbond nylon
		Name of manufacturer
		Bonar
	Primary backing	Thickness
		0.2mm
		Weight per unit area
		120g/m <sup>2</sup>
		Flame retardant details
		See Note 1 Below

Continued on next page

Carpet tile (continued)	Bitumix	Product reference	"Bitumix"
		Generic type	Composite of polymer modified bitumen cariphate and limestone
		Name of manufacturer	Shell / Longcliffe
		Thickness	2.0mm
		Weight per unit area	2500g/m <sup>2</sup>
		Flame retardant details	See Note 1 Below
	Secondary backing	Product reference	"Secondary Backing"
		Generic type	100% polyester
		Name of manufacturer	Johns Manville
		Thickness	0.2mm
		Weight per unit area	95g/m <sup>2</sup>
		Flame retardant details	See Note 1 Below
	Adhesive	Product reference	"Eurocol 540"
		Generic type	Acrylic based release adhesive
Name of manufacturer		Forbo	
Application thickness		0.02mm	
Application rate		5g/m <sup>2</sup>	
Application method		Various	
Flame retardant details		See Note 1 Below	
Substrate	Product reference	"NT D4 604"	
	Generic type	Fibre cement board	
	Name of supplier	SVK	
	Thickness	8mm	
	Density	1900 ± 200kg/m <sup>3</sup>	
Brief description of manufacturing process utilised in the production of the carpet tile		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 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 331343	EN ISO 9239-1
Exova Warringtonfire	Forbo Flooring UK Limited	WFR 331332	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 <sup>2</sup> )	3	8.6 kW/m <sup>2</sup>	Compliant
	Smoke (% x min)		161.85 %	Compliant
EN ISO 11925-2 15 s surface exposure	Flame spread (mm)	6	Nil	Compliant
EN ISO 11925-2 15 s edge exposure	Flame spread (mm)		30mm	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, "Format", a tufted bitumen backed carpet tile, in relation to its reaction to fire behaviour is classified:

**Reaction to fire classification: B<sub>FL</sub>-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<sub>fl</sub> or better, with a density of 1800kg/m<sup>3</sup> or higher utilising "Eurocol 540", an acrylic based release 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**

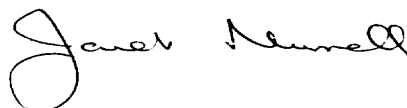


.....

**Matthew Dale**

Certification Engineer

**APPROVED**



.....

**Janet Murrell**

Technical Manager  
on behalf of **Exova Warringtonfire**

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.