

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:**

"Teviot"

**Report No:**

320588

**Issue No:**

1

**Prepared for:**

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

**Date:**

5<sup>th</sup> September 2012



## 1. Introduction

This classification report defines the classification assigned to "Teviot", a loop pile tufted carpet tile product, in accordance with the procedures given in EN 13501-1:2007+A1: 2009.

## 2. Details of classified product

### 2.1 General

The product, "Teviot", a loop pile tufted carpet tile product, is defined as being suitable for floor covering applications.

### 2.2 Product description

The product, "Teviot", a loop pile tufted carpet tile product, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Loop pile tufted carpet tile adhered to fibre cement board substrate utilising 'Balls F41' adhesive
Overall weight per unit area		18.95kg/m <sup>2</sup> (determined by Exova Warringtonfire)
Overall thickness		14.67mm (determined by Exova Warringtonfire)
Carpet tile	General description	Loop pile tufted carpet tile
	Product reference of carpet tile	"Teviot"
	Name of manufacturer of carpet tile	Forbo Flooring Ltd
	Overall thickness of carpet tile	6.0mm
	Overall weight per unit area of carpet tile	3765g/m <sup>2</sup>
	Colour / pattern reference of carpet tile	Any colour / pattern
	Pile	Product reference
		See Note 1 Below
		Generic type
		Nylon
		Name of manufacturer
		Aquafil
	Primary backing	Pile height above the backing
		3.5mm
		Weight per unit area
		470g/m <sup>2</sup>
		Flame retardant details
		See Note 2 Below
	Backing	Product reference
		"SM100"
		Generic type
		Spunbond nylon
		Name of manufacturer
		Colbond
	Backing	Thickness
		0.1mm
		Weight per unit area
		100g/m <sup>2</sup>
		Flame retardant details
		See Note 2 Below
	Backing	Product reference
		See Note 1 Below
		Generic type
		100% Polyester
		Name of manufacturer
		Johns Manville
	Backing	Thickness
		0.2mm
		Weight per unit area
		95g/m <sup>2</sup>
		Flame retardant details
		See Note 2 Below

Continued on next page

Carpet tile (continued)	Back coating	Product reference	"PMB"
		Generic type	Modified bitumen/limestone
		Name of manufacturer	Shell/Loncliffe
		Thickness	2.0mm
		Weight per unit area	2500g/m <sup>2</sup>
		Flame retardant details	See Note 2 Below
	Back coating applied to reverse face	Product reference	"LC6715"
		Generic type	Latex
		Name of manufacturer	ILC
		Thickness	0.2mm
		Weight per unit area	600g/m <sup>2</sup>
		Flame retardant details	See Note 2 Below
	Adhesive	Product reference	"Balls Styccobond F41" Surface Tackifier"
		Generic type	Solvent free acrylic polymer emulsion adhesive
Name of manufacturer		F Ball & Co. Limited	
Application Rate		7m <sup>2</sup> per litre	
Application Method		Brush	
Substrate	Product reference	"NT D4 604"	
	Generic type	Fibre cement board	
	Name of supplier	Scheerders van de Kerkhove (SVK)	
	Thickness	8mm	
	Density	1800kg/m <sup>3</sup>	
Brief description of manufacturing process utilised in the production of the carpet tile		Tufting, latexing, bitumining, tile cutting	

**Note 1:** The sponsor confirmed that there is no specific product reference associated with this component.

**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 reports/extended application report Nos.	Test method / extended application rules & date
Exova Warringtonfire	Forbo Flooring UK Limited	WF 320445	EN ISO 11925-2
Exova Warringtonfire	Forbo Flooring UK Limited	WF 320448	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	8.8	Compliant
	Smoke		67.62%	Compliant
EN ISO 11925-2 (15s exposure – surface of decorative face)	F <sub>s</sub>	6	30	Compliant
	Flaming droplets/particles		None	Compliant
EN ISO 11925-2 (15s exposure – edge of decorative face)	F <sub>s</sub>	6	36.7	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, "Teviot", a loop pile tufted carpet tile product, in relation to its reaction to fire behaviour is classified:

**B<sub>FL</sub>**

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>B<sub>FL</sub></b>	<b>-</b>	<b>s</b>	<b>1</b>

i.e. **B<sub>FL</sub> – s1**

**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, used over any substrate with a density equal to or greater than  $1800\text{Kg/m}^3$ , having a minimum thickness of 6mm and a fire performance of A2<sub>FL</sub> or better.
- ii) Product installed utilising "Balls Styccobond F41" Surface Tackifier", a solvent free acrylic polymer emulsion adhesive at an application rate of 7m<sup>2</sup> per litre.

This classification is also valid for the following product parameters:

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

#### 5. Limitations

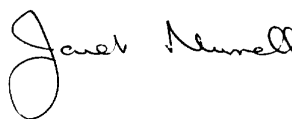
This document does not represent type approval or certification of the product

**SIGNED**



.....  
**Matthew Dale**  
Certification Engineer

**APPROVED**



.....  
**Janet Murrell**  
Technical Manager  
For and 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.