

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 Names:**

Modular Carpet Tile

**Report No:**

326486

**Issue No:**

2

**Prepared for:**

Amtico International  
Kingsfield Road  
Coventry  
West Midlands  
CV8 5AA  
United Kingdom

**Date:**

15<sup>th</sup> February 2013

## 1. Introduction

This classification report defines the classification assigned to 'Modular Carpet Tile', a family of tufted modular carpet tiles, in accordance with the procedures given in EN 13501-1:2007+A1:2009

## 2. Details of classified product

### 2.1 General

The products, 'Modular Carpet Tile', a family of tufted modular carpet tiles, are defined as being suitable for floorcovering applications.

### 2.2 Product description

The products, 'Modular Carpet Tile', a family of tufted modular carpet tiles, are fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Tufted modular carpet tile product bonded to a fibre cement board substrate.		
Product reference of carpet		Modular Carpet Tile		
Name of manufacturer of carpet		Mannington		
Overall thickness of carpet		Between 7.14 mm (7/25") & 10.32 mm (21/50")		
Overall weight per unit area of carpet		Between 4610 g/m <sup>2</sup> & 5740 g/m <sup>2</sup> (136 oz/yd <sup>2</sup> & 172 oz/yd <sup>2</sup> )		
Colour/pattern reference of carpet		Any variation allowed		
Carpet	Topical Treatments to Pile surface	Anti Static Treatment	Note 1	
		Name of Supplier	Note 1	
		Stain Resistance Treatment	Note 1	
		Name of Supplier	Note 1	
		Soil Resistant Treatment	Note 1	
		Name of Supplier	Note 1	
	Pile	Product reference	A product reference is not assigned to this component	
		Generic type	100% Nylon	
		Name of manufacturer	Invista Yarn (formerly DuPont)	
		Pile height above the backing	Between 4.0mm & 7.1mm (5/32" & 9/32")	
		Weight per unit area	Between 373 g/m <sup>2</sup> & 1290 g/m <sup>2</sup> (11 ounces/yd <sup>2</sup> & 38 ounces/yd <sup>2</sup> )	
		Flame retardant details	The sponsor has confirmed that no flame retardant additives were utilised in the production of this component.	

	Primary Backing	Trade name	Note 1
		Generic type	100% Polypropylene
		Name of manufacturer	Note 1
		Thickness	The sponsor was unable to provide this information.
		Weight per unit area	Between 122 g/m <sup>2</sup> & 156 g/m <sup>2</sup> (3.60 oz/yd <sup>2</sup> & 4.60 oz/yd <sup>2</sup> )
		Flame retardant details	The sponsor has confirmed that no flame retardant additives were utilised in the production of this component.
	Back Coating	Trade name	"Infinity Modular"
		Generic type	Filled PVC
		Name of manufacturer	Mannington
		Thickness	The sponsor was unable to provide this information.
		Weight per unit area	2712 g/m <sup>2</sup> (80 oz/yd <sup>2</sup> )
		Flame retardant details	The sponsor has confirmed that no flame retardant additives were utilised in the production of this component.
	Pre-coat	Trade name / product reference	A product reference is not assigned to this component
		Generic type	Filled PVC
		Name of manufacturer	Mannington
		Thickness	The sponsor was unable to provide this information.
		Weight per unit area	1356 g/m <sup>2</sup> (40 oz/yd <sup>2</sup> )
		Trade Name of Flame retardant	Note 1
Generic type of Flame retardant		CG 60 - Alumina Tri Hydrate	
Amount of Flame retardant		678 g/m <sup>2</sup> (20 oz/yd <sup>2</sup> ) equivalent to 50%	
Substrate	Trade name/product reference	"NT D4 604"	
	Generic type	Fibre cement board	
	Name of manufacturer	Scheerders van de Kerkhove (SVK)	
	Thickness	6mm	
	Density	1800kg/m <sup>3</sup>	
	Flame retardant details	The substrate is inherently flame retardant	
Brief description of manufacturing process utilized in the production of the carpet.		(1) Yarn Processed (2) Tufted (3) Beck Dyed (4) Dried (5) Modular Coating	

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.

### 3. Test reports/extended application reports & test results in support of classification

#### 3.1 Test reports/extended application reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
BCTC/BTTG	Mannington	2600346A, 2600346B	EN ISO 11925-2
BCTC/BTTG	Mannington	2600346A, 2600346B	EN ISO 9239-1
Exova Warringtonfire	Mannington	WF 325465	EN ISO 9239-1
Bodycote warringtonfire	Mannington	WF 163209	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	6.4, 6.8, 6.8, 7.6	Compliant
	Smoke		275, 331, 441, 447	Compliant
EN ISO 11925-2 (15s exposure – surface of decorative face)	F <sub>s</sub>	6, 6	0, 0	Compliant
	Flaming droplets/particles		None	Compliant
EN ISO 11925-2 (15s exposure – edge of decorative face)	F <sub>s</sub>	6, 6	0, 0	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 11 of EN 13501-1:2002

##### 4.2 Classification

The products, 'Modular Carpet Tile', a family of tufted modular carpet tiles, in relation to their reaction to fire behaviour are classified:

**C<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	
C <sub>FL</sub>	-	s	1

i.e. C<sub>FL</sub> – s1

**Reaction to fire classification: C<sub>FL</sub> – s1**

##### 4.3 Field of application

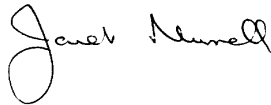
This classification is valid for the following end use applications:

- i) Flooring applications, used over any substrate with a density equal to or greater than 1800Kg/m<sup>3</sup>, having a minimum thickness of 6mm and a fire performance of A2<sub>FL</sub> or better.
- ii) Installed with or without adhesive.

This classification is also valid for the following product parameters:

Floorcovering thickness	Between 7.14 mm (7/25") & 10.32 mm (21/50")
Floorcovering weight per unit area	Between 4610 g/m <sup>2</sup> & 5740 g/m <sup>2</sup> (136 oz/yd <sup>2</sup> & 172 oz/yd <sup>2</sup> )
Colour/Pattern	Any variation allowed
Pile height above the backing	Between 4.0mm & 7.1mm (5/32" & 9/32")
Pile weight per unit area	Between 373 g/m <sup>2</sup> & 1290 g/m <sup>2</sup> (11 oz/yd <sup>2</sup> & 38 oz/yd <sup>2</sup> )
Individual components	No variation from the approved specification which is held in the confidential file relating to this assessment
Floorcovering construction	No variation from the approved specification which is held in the confidential file relating to this assessment

**SIGNED**



.....  
**Janet Murrell**  
Technical Manager  
Technical Department

**APPROVED**



.....  
**Matthew Dale**  
Certification Engineer  
Technical Department  
on behalf of **Exova warringtonfire**

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Date of Revision: 22<sup>nd</sup> February 2013