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Testing. Advising. Assuring.

**Title:**

CLASSIFICATION OF  
REACTION TO FIRE  
PERFORMANCE  
IN ACCORDANCE WITH  
EN 13501-1: 2007

**Notified Body No:**

0833

**Product Name:**

R-Tile Interlocking PVC Floor  
Tile

**Report No:**

190594

**Issue No:**

1

**Prepared for:**

R-Tek Manufacturing Ltd.  
Unit 1  
Hamiltownsbawn Industrial  
Estate  
Armagh  
Co. Armagh  
BT60 1HW

**Date:**

18<sup>th</sup> February 2010

## 1. Introduction

This classification report defines the classification assigned to "R-Tile Interlocking PVC Floor Tile", a family of textured and studded interlocking PVC floor tiles, in accordance with the procedures given in EN 13501-1:2007

## 2. Details of classified product

### 2.1 General

The products, "R-Tile Interlocking PVC Floor Tile", a family of textured and studded interlocking PVC floor tiles are defined as being suitable for floorcovering applications.

### 2.2 Product description

The products, "R-Tile Interlocking PVC Floor Tile", are fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Interlocking PVC floor tile which was tested loose laid over a nominally 6mm thick fibre cement based substrate
Floor Covering	Product reference	"R-Tile Interlocking PVC Floor Tile"
	Generic type	PVC floor tile for industrial use
	Name of manufacturer	R-Tek Manufacturing Ltd.
	Density	1.45 (specific gravity – stated by sponsor) 1.29g/cm <sup>3</sup> (determined by <b>Exova Warringtonfire</b> )
	Thickness	Between 5mm and 7mm (stated by sponsor)
	Colour	Any colour
	Finish	Textured and studded
	Flame retardant details	The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product / component
Substrate	Trade name	"NT D4 604"
	Generic type	Fibre cement board
	Supplier	Scheerders van de Kerkhove (SVK)
	Thickness	6mm
	Density	1800kg/m <sup>3</sup>
Brief description of manufacturing process of the floor covering		Injection moulded

### 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
Exova warringtonfire	R-Tek Manufacturing Limited	WF 189857	EN ISO 11925-2
Exova warringtonfire	R-Tek Manufacturing Limited	WF 189858, 190303, 190304, 190305	EN ISO 9239-1
Exova warringtonfire	R-Tek Manufacturing Limited	WF 190595	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, 1, 1, 1	10.8, 10.9, 11.2, $\geq 11.2$	Compliant
		Smoke		356.75, 161.78, 316.81, 242.14	Compliant
EN ISO 11925-2	(15s exposure – surface of decorative face)	F <sub>s</sub>	6	46.7	Compliant
		Flaming droplets/ particles		None	Compliant
	(15s exposure – edge of decorative face)	F <sub>s</sub>	6	41.6	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

### 4.2 Classification

The products, "R-Tile Interlocking PVC Floor Tile", a family of textured and studded interlocking PVC floor tiles, in relation to their reaction to fire behaviour are 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>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) Floorcovering applications applied over any substrate with a minimum density of 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:

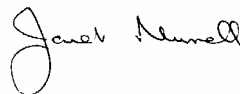
Floorcovering thickness	Between 5mm and 7mm
Floorcovering weight per unit area	No variation allowed
Floorcovering composition	No variation allowed
Colour/Pattern	Any variation allowed
Finish	Textured and studded

**SIGNED**



.....  
**Matthew Dale**  
Technical Officer  
Technical Department

**APPROVED**



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

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