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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:**

"Forest FX / Mineral FX /  
Ligno FX / Harmony FX /  
Polysafe Wood / Polysafe  
Modena / Expona Flow"

**Report No:**

351252

**Issue No:**

1

**Prepared for:**

Riverside Flooring Ltd  
Fleck Way  
Teeside Industrial Estate  
Thornaby on Tees  
TS17 9JT

**Date:**

13<sup>th</sup> April 2015



## 1. Introduction

This classification report defines the classification assigned to “Forest FX / Mineral FX / Ligno FX / Harmony FX / Polysafe Wood / Polysafe Modena / Expona Flow”, a hardwearing heterogeneous commercial vinyl sheet flooring, in accordance with the procedures given in EN 13501-1:2007+A1: 2009.

## 2. Details of classified product

### 2.1 General

The product, “Forest FX / Mineral FX / Ligno FX / Harmony FX / Polysafe Wood / Polysafe Modena / Expona Flow”, a hardwearing heterogeneous commercial vinyl sheet flooring, is defined as being suitable for floorcovering applications.

### 2.2 Product description

The product, “Forest FX / Mineral FX / Ligno FX / Harmony FX / Polysafe Wood / Polysafe Modena / Expona Flow”, a hardwearing heterogeneous commercial vinyl sheet flooring, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Hardwearing heterogeneous commercial vinyl sheet flooring adhered to a nominally 6mm thick fibre cement board substrate
Thickness of composite		8.24mm (determined by <b>Exova Warringtonfire</b> )
Weight per unit area of composite		14.51kg/m <sup>2</sup> (determined by <b>Exova Warringtonfire</b> )
Floor Covering	Product reference	“Forest FX / Mineral FX / Ligno FX / Harmony FX / Polysafe Wood / Polysafe Modena / Expona Flow”
	Generic type	PVC based
	Batch No.	“TS1”
	Name of manufacturer	Riverside Flooring Ltd
	Thickness	2.0mm
	Weight per unit area	2.70kg/m <sup>2</sup>
Flame retardant details		The manufacturer has stated that flame retardant additives are present. Details are held on Technical file.
Adhesive	Product reference	“Styccobond F44”
	Generic type	Acrylic based adhesive
	Name of manufacturer	F Ball & Co. Ltd.
	Application rate	200g/m <sup>2</sup>
	Application method	‘V’ notched trowel
	Flame retardant details	The manufacturer stated that no flame retardant additives were utilised in the construction of the adhesive
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		Calendaring and Gravure printing

**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	Polyflor Limited	WF 339164 and Additional Report WF 350978	EN ISO 11925-2
Exova warringtonfire	Polyflor Limited	WF 339165 and Additional Report WF 350979	EN ISO 9239-1
Exova warringtonfire	Riverside Flooring	316169	EN ISO 9239-1
Exova warringtonfire	Riverside Flooring	339194	EN 13501

**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	8.7, 9.3	Compliant	
	Smoke		266.92, 406.28	Compliant	
EN ISO 11925-2	(15s exposure – surface warp)	6	F <sub>s</sub>	50	Compliant
			Flaming droplets/ particles	None	Compliant
	(15s exposure – surface weft)	6	F <sub>s</sub>	50	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, "Forest FX / Mineral FX / Ligno FX / Harmony FX / Polysafe Wood / Polysafe Modena / Expona Flow", a hardwearing heterogeneous commercial vinyl sheet flooring, 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>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 bonded directly to 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 directly to the substrate utilising 'F44' adhesive, applied at a nominal rate of 200g/m<sup>2</sup>

This classification is also valid for the following product parameters:

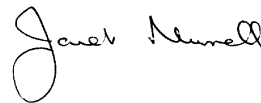
Floorcovering thickness	No variation allowed
Floorcovering weight per unit area	No variation allowed
Floorcovering composition	No variation allowed
Colour/Pattern	Any variation allowed
Adhesive	No variation allowed
Adhesive application rate	No variation allowed
Adhesive application method	No variation allowed

**SIGNED**



.....  
**Matthew Dale**  
Certification Engineer  
Technical Department

**APPROVED**



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

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