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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:**

"BF140F2"

**Report No:**

WF 348848

**Issue No:**

2

**Prepared for:**

Landskroon B.V.,  
PO Box 195  
Apeldoorn  
7300 AD  
The Netherlands

**Date:**

27<sup>th</sup> February 2014



## 1. Introduction

This classification report defines the classification assigned to "BF140F2", a polyethylene coated woven fabric material, in line with the procedures given in EN 13501-1:2007+A1: 2009.

## 2. Details of classified product

### 2.1 General

The product, "BF140F2", a polyethylene coated woven fabric material, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

### 2.2 Product description

The product, "BF140F2", a polyethylene coated woven fabric material, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Polyethylene coated woven fabric material
Product reference		"BF140F2"
Name of manufacturer		<b>See Note 1 below</b>
Thickness		0.21mm (stated by sponsor) 0.14mm (determined by <b>Exova Warringtonfire</b> )
Weight per unit area		140g/m <sup>2</sup> (stated by sponsor) 148.3 g/m <sup>2</sup> (determined by <b>Exova Warringtonfire</b> )
Product configuration		<ul style="list-style-type: none"> <li>• Coating</li> <li>• Base fabric</li> <li>• Coating</li> </ul>
Coating (test face)	Generic type	Low density polyethylene (LDPE)
	Product reference	"Coating"
	Name of manufacturer	<b>See Note 1 below</b>
	Colour reference	"White"
	Number of coats	One
	Thickness	30 microns
	Application rate	27.6g/m <sup>2</sup>
	Application method	Extrusion
Flame retardant details		<b>See Note 1 below</b>

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Scrim	Generic type	High density polyethylene (HDPE)
	Product reference	"Base Fabric"
	Name of manufacturer	<b>See Note 1 below</b>
	Colour reference	"Natural"
	Thickness	150 microns
	Weight per unit area	87.5g/m <sup>2</sup>
	Type of weave / cell dimensions	Plain weave 10x10/inch <sup>2</sup>
	Flame retardant details	<b>See Note 1 below</b>
Mounting and fixing details		The specimens were tested clamped into a "window" frame manufactured from 5mm steel sheet.
Air space details		A 180mm ventilated cavity was situated between the reverse face of each specimen and the calcium silicate backing board (as specified in EN 13238: 2010).
Brief description of manufacturing process		Weaving, laminating

**Note 1: The sponsor was unwilling to provide this information.**

### 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	Landskroon B.V	WF 348815	EN ISO 11925-2
Exova warringtonfire	Landskroon B.V	WF 348814	EN 13823

### 3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 11925-2 (30s exposure - surface)	F <sub>s</sub>	8*	120, 50, 50, 150, 100, 40, 100, 60	Compliant
	Flaming droplets/ particles		None, None, None, Yes, None, None, None, None	Compliant
EN ISO 11925-2 (30s exposure - edge)	F <sub>s</sub>	6	80, 120, 40, 50, 50, 60	Compliant
	Flaming droplets/ particles		None, None, None, None, None, None	Compliant
EN 13823	FIGRA <sub>0.2MJ</sub>	3	0.00	Compliant
	FIGRA <sub>0.4MJ</sub>		0.00	Compliant
	THR <sub>600s</sub>		0.28	Compliant
	LFS		None	Compliant
	SMOGRA		0.00	Compliant
	TSP <sub>600s</sub>		0.00	Compliant

\*For the set of specimens subject to surface application, six specimens were tested initially and the flame tip reached 150mm on the fourth specimen before the end of the test. A further two specimens were tested in accordance with clause 7.4 of EN 13501-1: 2007+A1: 2009 these two results were compliant. Therefore the result of the EN ISO 11925-2 surface application can be deemed compliant in accordance with EN 13501-1:2007 +A1: 2009.

## 4. Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1:2007+A1: 2009.

## 4.2 Classification

The product, "BF140F2", a polyethylene coated woven fabric material, in relation to its reaction to fire behaviour is classified:

**B**

The additional classification in relation to smoke production is:

**s1**

The additional classification in relation to flaming droplets / particles is:

**d0**

The format of the reaction to fire classification for construction applications, excluding flooring and linear pipe thermal insulation is:

Fire Behaviour		Smoke Production			Flaming Droplets	
<b>B</b>	-	<b>s</b>	<b>1</b>	,	<b>d</b>	<b>0</b>

i.e. **B – s1 , d0**

**Reaction to fire classification: B – s1, d0**

## 4.3 Field of application

This classification is valid for the following end use applications:

- i) Construction applications mechanically installed without the presence of a substrate with an air gap.
- ii) Construction applications, mechanically installed with a minimum air gap of 180mm.

This classification is also valid for the following product parameters:

Product thickness	No variation allowed
Product weight per unit area	No variation allowed
Product colour/pattern	No variation allowed
Product composition	No variation allowed
Product construction	No variation allowed

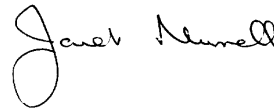
**SIGNED**



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**Matthew Dale**  
Certification Engineer  
Technical Department

**APPROVED**



.....

**Janet Murrell**  
Technical Manager  
Technical Department  
on behalf of **Exova warringtonfire**

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