

## CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2007+A1:2009

Classification no.	2015-Efectis-R000445
Sponsor	Vescom BV P.O. Box 70 5750 AB DEURNE THE NETHERLANDS
Product name	<b>Xorel FR wall covering</b>
Prepared by	Efectis Nederland BV
Notified body no.	1234
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## 1. INTRODUCTION

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### 1.1 PRODUCT NAME

This classification report defines the classification assigned to **Xorel FR wall covering** in accordance with the procedures given in EN 13501-1:2007+A1:2009.

## 2. DETAILS OF CLASSIFIED PRODUCT

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### 2.1 GENERAL

The product, **Xorel FR wall covering**, is defined as a wall covering.

### 2.2 MANUFACTURER

Vescom BV  
P.O. Box 70  
5750 AB DEURNE  
THE NETHERLANDS

### 2.3 PRODUCT DESCRIPTION

According to the sponsor the product is composed of:

- 100 % PE fabric (fire-retardant), mass: 280 g/m<sup>2</sup>
  - Applied to a nonwoven carrier of 90 g/m<sup>2</sup>
- Total weight: 370 g/m<sup>2</sup>.

## 3. STANDARDS, REPORTS, RESULTS AND CRITERIA IN SUPPORT OF THIS CLASSIFICATION

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### 3.1 APPLICABLE (PRODUCT) STANDARDS

EN 15102:2007      Decorative wall coverings - Roll and panel form products

### 3.2 REPORTS

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
Efectis Nederland BV THE NETHERLANDS	Vescom BV THE NETHERLANDS	2015-Efectis-R000443 2015-Efectis-R000444	EN ISO 11925-2:2010 EN 13823:2014

### 3.3 TEST RESULTS

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
<b>EN ISO 11925-2</b>				
surface flame impingement	$F_s \leq 150$ mm	6	36	-
	Ignition of filter paper		-	Compliant
Edge flame impingement	$F_s \leq 150$ mm	6	40	-
	Ignition of filter paper		-	Compliant
<b>EN 13823</b>				
	FIGRA <sub>0,2MJ</sub> [W/s]	3	88	-
	FIGRA <sub>0,4MJ</sub> [W/s]		49	-
	THR <sub>600s</sub> [MJ]		1.6	-
	LFS < edge		-	Compliant
	SMOGRA [m <sup>2</sup> /s <sup>2</sup> ]		0	-
	TSP <sub>600s</sub> [m <sup>2</sup> ]		34	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		-	Compliant Compliant

### 3.4 CLASSIFICATION CRITERIA

Fire classification of construction products and building elements Excluding floorings and linear pipe thermal insulation products			
Classification criteria			
Class	B	C	D
Test method(s)			
EN ISO 11925-2 Exposure = 30 s	$F_s \leq 150$ mm within 60 s Ignition of the paper in EN ISO 11925-2 results in a d2 classification.		
EN 13823	FIGRA <sub>0,2 MJ</sub> ≤ 120 W/s LFS < edge of specimen THR <sub>600s</sub> ≤ 7.5 MJ	FIGRA <sub>0,4 MJ</sub> ≤ 250 W/s LFS < edge of specimen THR <sub>600s</sub> ≤ 15 MJ	FIGRA <sub>0,4 MJ</sub> ≤ 750 W/s
Additional classification			
Smoke production	s1 = SMOGRA ≤ 30 m <sup>2</sup> /s <sup>2</sup> and TSP <sub>600s</sub> ≤ 50 m <sup>2</sup> ; s2 = SMOGRA ≤ 180 m <sup>2</sup> /s <sup>2</sup> and TSP <sub>600s</sub> ≤ 200 m <sup>2</sup> ; s3 = not s1 or s2		
Flaming Droplets/particles	d0 = no flaming droplets/ particles in EN 13823 within 600 s; d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s; d2 = not d0 or d1.		

#### 4. CLASSIFICATION AND FIELD OF APPLICATION

##### 4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11 of EN 13501-1:2007+A1:2009.

##### 4.2 CLASSIFICATION

The product, **Xorel FR wall covering**, 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**

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

##### 4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Material fabric	100% PE fabric
Surface density	
• Fabric	280 kg/m <sup>2</sup>
• carrier	90 kg/m <sup>2</sup>

This classification is valid for the following end use applications:

Substrate	Non-combustible (class A1/A2 according to EN 13238:2010)
Air gap	Not applicable
Methods and means of fixing	The product was glued to the substrate using the special adhesive "Vescom 2000" following the manufacturer's instructions.
Joints	Without joints
Other aspects of end use conditions	Wall covering

##### 4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

There are no limitations in time on the validity of this report.

## 5. LIMITATIONS

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

A handwritten signature in blue ink, appearing to read "C.C.M. Steinhage".

C.C.M. Steinhage B.Sc.  
Project leader reaction to fire

A handwritten signature in blue ink, appearing to read "E.O. van der Laan".

E.O. van der Laan M.Sc.  
Project leader reaction to fire