

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

|                    |   |
|--------------------|---|
| Classification no. | 2015-Efectis-R000445  |
| Sponsor            | Vescom BV<br>P.O. Box 70<br>5750 AB DEURNE<br>THE NETHERLANDS |
| Product name       | <b>Xorel FR wall covering</b>                                 |
| Prepared by        | Efectis Nederland BV  |
| Notified body no.  | 1234  |
| Author(s)          | C.C.M. Steinhage B.Sc.<br>E.O. van der Laan M.Sc.             |
| Project number     | ENL-15-000327   |
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| Number of pages    | 5   |

## 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<br>THE NETHERLANDS | Vescom BV<br>THE NETHERLANDS | 2015-Efectis-R000443<br>2015-Efectis-R000444 | EN ISO 11925-2:2010<br>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<br>- flaming ≤ 10 s<br>- flaming > 10 s |           | -                               | Compliant<br>Compliant     |

### 3.4 CLASSIFICATION CRITERIA

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