

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 | Xorel FR wall covering |
| Prepared by | Efectis Nederland BV |
| Notified body no. | 1234 |
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1. INTRODUCTION

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

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/m²
 - Applied to a nonwoven carrier of 90 g/m²
- Total weight: 370 g/m².

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

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 |
| EN ISO 11925-2 | | | | |
| 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 |
| EN 13823 | | | | |
| | FIGRA _{0,2MJ} [W/s] | 3 | 88 | - |
| | FIGRA _{0,4MJ} [W/s] | | 49 | - |
| | THR _{600s} [MJ] | | 1.6 | - |
| | LFS < edge | | - | Compliant |
| | SMOGRA [m ² /s ²] | | 0 | - |
| | TSP _{600s} [m ²] | | 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 _{0,2 MJ} ≤ 120 W/s LFS < edge of specimen THR _{600s} ≤ 7.5 MJ | FIGRA _{0,4 MJ} ≤ 250 W/s LFS < edge of specimen THR _{600s} ≤ 15 MJ | FIGRA _{0,4 MJ} ≤ 750 W/s |
| Additional classification | | | |
| Smoke production | s1 = SMOGRA ≤ 30 m ² /s ² and TSP _{600s} ≤ 50 m ² ; s2 = SMOGRA ≤ 180 m ² /s ² and TSP _{600s} ≤ 200 m ² ; 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 ² |
| • carrier | 90 kg/m ² |

This classification is valid for the following end use applications:

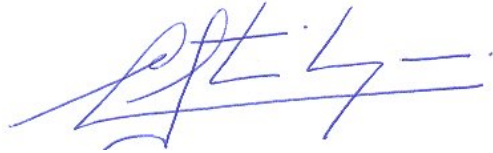
| | |
|-------------------------------------|--|
| Substrate | Non-combustible (class A1/A2 according to EN 13238:2010) |
| Air gap | Not applicable |
| Methods and means of fixing | The product was glued to the substrate using the special adhesive "Vescom 2000" following the manufacturer's instructions. |
| 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

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