

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

| | |
|--------------------|---|
| Classification no. | 2014-Efectis-R000920 |
| Sponsor | Vescom BV P.O. Box 70 5750 AB DEURNE THE NETHERLANDS |
| Product name | Xorel bio-based wall covering |
| Prepared by | Efectis Nederland BV |
| Notified body no. | 1234 |
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1. INTRODUCTION

This classification report defines the classification assigned to **Xorel bio-based 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 bio-based wall covering**, is defined as a wall covering.

2.2 MANUFACTURER

Carnegie Fabrics
110 North Centre Avenue
Rockville Centre, NEW YORK 11570
UNITED STATES OF AMERICA

2.3 PRODUCT DESCRIPTION

Product description:

- Fabric on a paper backing
- Fabric: 100% polyethylene, of which 60-80 % bio-based
- Mass fabric: 200 g/m²
- Mass total: 340 g/m²

The product has a mass per unit area of approx. 340 kg/m².

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

3.1 REPORTS

| Name of Laboratories | Name of sponsor | Report ref. no. | Test method |
|---|------------------------------|--|--------------------------------------|
| Efectis Nederland BV THE NETHERLANDS | Vescom BV THE NETHERLANDS | 2014-Efectis-R000918 2014-Efectis-R000919 | EN ISO 11925-2:2010 EN 13823:2014 |

3.2 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 | 37 | - |
| | Ignition of filter paper | | - | Compliant |
| Edge flame impingement | $F_s \leq 150$ mm | 6 | 25 | - |
| | Ignition of filter paper | | - | Compliant |
| EN 13823 | | | | |
| | FIGRA _{0,2MJ} [W/s] | 3 | 116 | - |
| | FIGRA _{0,4MJ} [W/s] | | 108 | - |
| | THR _{600s} [MJ] | | 3.2 | - |
| | LFS < edge | | - | Compliant |
| | SMOGRA [m ² /s ²] | | 0.8 | - |
| | TSP _{600s} [m ²] | | 37 | - |
| | Flaming debris - flaming ≤ 10 s - flaming > 10 s | | Yes Yes | |

3.3 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 bio-based 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:

d2

Reaction to fire classification: B - s1, d2

4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Surface density

- Fabric 200 kg/m²
- Total 340 kg/m²

This classification is valid for the following end use applications:

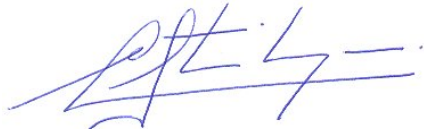
| | |
|-------------------------------------|---|
| Substrate | Non-combustible (class A1/A2 according to EN 13238:2010) |
| Air gap | Not applicable |
| Methods and means of fixing | The wall covering was glued on the substrate according to the manufacturer's instructions, using the special adhesive "Vescom 2000" |
| Joints | Vertical joints only |
| Other aspects of end use conditions | Wall covering |

4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

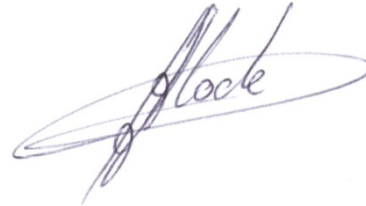
There are no limitations in time on the validity of this report.

5. LIMITATIONS

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



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