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

Sponsor
Vescom BV
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The Netherlands

Prepared by
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Notified Body no.
1234

Product name
Vescom vinyl wallcovering with a total weight of approx. 550 g/m² glued on CaSil board

Classification report no
2012-Efectis-R9438b

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1

Date of issue
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Project number
2012438 and 2008601

This classification report consists of five pages and may only be used in its entirety.
1. Introduction

This classification report defines the classification assigned to Vescom vinyl wallcovering with a total weight of approx. 550 g/m² in accordance with the procedures given in EN 13501-1: 2007+A1:2009.

2. Details of classified product

2.1 General

The product, Vescom vinyl wallcovering with a total weight of approx. 550 g/m², is defined as a wallcovering product.

2.2 Product description

According to the sponsor the product is composed of a vinyl topcoat of approx. 510 g/m² and a cotton backing of 40 g/m² (total weight approx 550 g/m²). The product is glued on CaSil substrate as defined in EN 13238 using the special adhesive "Vescom 2000".

2.3 Manufacturer/Importer

Vescom BV
P.O. Box 70
NL-5750 AB DEURNE
The Netherlands
3. Standards, reports, results and criteria in support of this classification

3.1 Applicable (product) standards

| EN 15102:2007 | Decorative wallcoverings - Roll and panel form products |

3.2 Reports

<table>
<thead>
<tr>
<th>Name of Laboratories</th>
<th>Name of sponsor</th>
<th>Report ref. no.</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Netherlands</td>
<td>The Netherlands</td>
<td>2008-Efectis-R0431</td>
<td>EN 13823:2002</td>
</tr>
</tbody>
</table>

3.3 Test results

<table>
<thead>
<tr>
<th>Test method &amp; test number</th>
<th>Parameter</th>
<th>No. tests</th>
<th>Results</th>
<th>Compliance parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 13823</td>
<td>FIGRA$_{0.2MJ}$ [W/s]</td>
<td>101</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FIGRA$_{0.4MJ}$ [W/s]</td>
<td>92</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>THR$_{600s}$ [MJ]</td>
<td>2.3</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LFS &lt; edge</td>
<td>-</td>
<td>Compliant</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SMOGRA [m$^2$/s$^2$]</td>
<td>94</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TSP$_{600s}$ [m$^2$]</td>
<td>162</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>flaming debris</td>
<td>-</td>
<td>Compliant</td>
<td></td>
</tr>
<tr>
<td>EN-ISO 11925-2 surface flame impingement</td>
<td>Fs ≤150 mm</td>
<td>6</td>
<td>-</td>
<td>Compliant</td>
</tr>
<tr>
<td></td>
<td>ignition of filter paper</td>
<td>-</td>
<td>Compliant</td>
<td></td>
</tr>
<tr>
<td>EN-ISO 11925-2 edge flame impingement</td>
<td>Fs ≤150 mm</td>
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<td>Compliant</td>
</tr>
<tr>
<td></td>
<td>ignition of filter paper</td>
<td>-</td>
<td>Compliant</td>
<td></td>
</tr>
</tbody>
</table>
3.4 Classification criteria

<table>
<thead>
<tr>
<th>Class</th>
<th>Fire</th>
<th>Class</th>
<th>Smoke</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2</td>
<td>FIGRA_{0.2 \text{ MJ}} \leq 120 \text{ W/s}</td>
<td>s1</td>
<td>SMOGRA \leq 30 m^2/s^2</td>
</tr>
<tr>
<td></td>
<td>LFS &lt; edge of the long wing specimen</td>
<td></td>
<td>TSP_{600s} \leq 50 m^2</td>
</tr>
<tr>
<td></td>
<td>THR_{600s} \leq 7.5 \text{ MJ}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>FIGRA_{0.2 \text{ MJ}} \leq 120 \text{ W/s}</td>
<td>s2</td>
<td>SMOGRA \leq 180 m^2/s^2</td>
</tr>
<tr>
<td></td>
<td>LFS &lt; edge of the long wing specimen</td>
<td></td>
<td>TSP_{600s} \leq 200 m^2</td>
</tr>
<tr>
<td></td>
<td>THR_{600s} \leq 7.5 \text{ MJ}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>FIGRA_{0.4 \text{ MJ}} \leq 250 \text{ W/s}</td>
<td>d0</td>
<td>No flaming droplets/particles</td>
</tr>
<tr>
<td></td>
<td>LFS &lt; edge of the long wing specimen</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>THR_{600s} \leq 15 \text{ MJ}</td>
<td>d1</td>
<td>Flaming droplets/particles \leq 10 s</td>
</tr>
<tr>
<td>D</td>
<td>FIGRA \leq 750 \text{ W/s}</td>
<td>d2</td>
<td>Not d0 or d1</td>
</tr>
</tbody>
</table>

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, **Vescom vinyl wallcovering with a total weight of approx. 550 g/m²**, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s2

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

d0

**Reaction to fire classification: B - s2, d0**
4.3 Field of application

This classification is valid for the following product parameters:
- Surface density 550 g/m²
  (510 g/m² vinyl topcoat and 40 g/m² cotton backing)

This classification is valid for the following end use applications:
- Substrate non-combustible (class A1/A2, according to EN 13501-1)
- Methods and means of fixing glued to the substrate according to the manufacturer’s instructions, using the special adhesive “Vescom 2000”
- Joints vertical joints
- End use conditions wallcovering

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.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 attestation of conformity and CE marking under the Construction Products Directive.

The manufacturer has made a declaration, which is held on file. This confirms that the product’s design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

A.J. Lock
Project leader reaction to fire

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Project leader reaction to fire