

## CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2018

Classification no.	2022-Efectis-R001205
Sponsor	Vescom B.V. Sint Jozefstraat 20 5753 AV DEURNE THE NETHERLANDS
Product name	<b>Thermoplastic Polyolefin Wallcovering</b>
Prepared by	Efectis Nederland BV
Notified body no.	1234
Author(s)	A. González Santamaría M.Sc. E.O. van der Laan M.Sc.
Project number	ENL-22-000876
Date of issue	January 2023
Number of pages	5

## 1. INTRODUCTION

---

This classification report defines the classification assigned to **Thermoplastic Polyolefin Wallcovering** in accordance with the procedures given in EN 13501-1:2018.

## 2. DETAILS OF CLASSIFIED PRODUCT

---

### 2.1 GENERAL

The product, **Thermoplastic Polyolefin Wallcovering**, is defined as a wallcovering.

### 2.2 MANUFACTURER

Vescom B.V.  
Sint Jozefstraat 20  
5753 AV DEURNE  
THE NETHERLANDS

### 2.3 PRODUCT DESCRIPTION

According to the sponsor the product is composed of:

- Thermoplastic Polyolefin Wallcovering, based embossed top layer with a mass per unit area of 355 g/m<sup>2</sup>;
- Non woven backing with a mass per unit area of 50 g/m<sup>2</sup>;
- Glued with adhesive Vescom 2000 with a mass per unit area of approx. 200 g/m<sup>2</sup> (wet, liquid form before application).

The product has a total thickness of 0.5 mm and a mass per unit area of approx. 415 g/m<sup>2</sup>.

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

---

### 3.1 APPLICABLE (PRODUCT) STANDARDS

EN ISO 11925-2:2020	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
EN 13823:2020	Reaction to fire tests for building products - Building products, excluding floorings exposed to the thermal attack by a single burning item
EN 13238:2010	Reaction to fire tests for building products - Conditioning procedures and general rules for selection of substrates
EN 13501-1:2018	Fire classification of construction products and building elements Part 1: Classification using data from reaction to fire tests
EN 15102:2019	Decorative wallcoverings – 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 B.V. THE NETHERLANDS	2022-Efectis-R001203 2022-Efectis-R001204	EN ISO 11925-2:2020 EN 13823:2020

### 3.3 TEST RESULTS

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – maximum	Compliance with parameters
<b>EN ISO 11925-2</b>				
Surface flame impingement	Fs ≤150 mm	6	25	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	25	-
	Ignition of filter paper		-	Compliant

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
<b>EN 13823</b>				
	FIGRA <sub>0.2MJ</sub> [W/s]	3	99	-
	FIGRA <sub>0.4MJ</sub> [W/s]		99	-
	THR <sub>600s</sub> [MJ]		2.4	-
	LFS < edge		-	Compliant
	SMOGRA [m <sup>2</sup> /s <sup>2</sup> ]		5.1	-
	TSP <sub>600s</sub> [m <sup>2</sup> ]		38	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant

### 3.4 CLASSIFICATION CRITERIA

<b>Fire classification of construction products and building elements</b> Excluding floorings and linear pipe thermal insulation products			
<b>Classification criteria</b>			
Class Test method(s)	<b>B</b>	<b>C</b>	<b>D</b>
<b>EN ISO 11925-2</b> Exposure = 30 s	F <sub>s</sub> ≤ 150 mm within 60 s Ignition of the paper in EN ISO 11925-2 results in a d2 classification.		
<b>EN 13823</b>	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
<b>Additional classification</b>			
Smoke production	<b>s1</b> = SMOGRA ≤ 30 m <sup>2</sup> /s <sup>2</sup> and TSP <sub>600s</sub> ≤ 50 m <sup>2</sup> ; <b>s2</b> = SMOGRA ≤ 180 m <sup>2</sup> /s <sup>2</sup> and TSP <sub>600s</sub> ≤ 200 m <sup>2</sup> ; <b>s3</b> = not s1 or s2		
Flaming Droplets/particles	<b>d0</b> = no flaming droplets/ particles in EN 13823 within 600 s; <b>d1</b> = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s; <b>d2</b> = 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 13501-1:2018.

### 4.2 CLASSIFICATION

The product, **Thermoplastic Polyolefin Wallcovering**, 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:

Thickness	0.5 mm
Surface density	415 g/m <sup>2</sup>
Other properties	Embossed

This classification is valid for the following end use applications:

Substrate	Promatect®-H, Non-combustible calcium silicate board, 12 mm thickness (reaction to fire class A1, 870 ± 50 kg/m <sup>3</sup> , according to EN 13238:2010)
Application	Wallcovering
Air gap	Not applicable
Methods and means of fixing	Glued to the substrate according to the manufacturer's instructions using 200 g/m <sup>2</sup> (wet) of the special adhesive Vescom 2000
Joints	Vertical, type edge to edge

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

Consult classification standard and national laws and regulations for limitations on the period of validity of the classification.

#### 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 within the context of system 1 **Assessment and Verification of Consistency of Performance (AVCP)** and **CE marking** under the **Construction Products Regulation**.

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. González Santamaría M.Sc.  
Project leader Reaction to Fire



E.O. van der Laan M.Sc.  
Project leader Reaction to Fire