

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

Classification no.	2021-Efectis-R001415
Sponsor	Orac NV Biekorfstraat 32 8400 OOSTENDE BELGIUM
Product name	<b>Purotouch® decorative element P9020</b>
Prepared by	Efectis Nederland BV
Notified body no.	1234
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## 1. INTRODUCTION

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This classification report defines the classification assigned to **Purotouch® decorative element P9020** in accordance with the procedures given in EN 13501-1:2018.

## 2. DETAILS OF CLASSIFIED PRODUCT

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### 2.1 GENERAL

The product, **Purotouch® decorative element P9020**, is defined as a decorative element for wall and ceiling covering.

### 2.2 MANUFACTURER

Orac NV  
Biekorfstraat 32  
8400 OOSTENDE  
BELGIUM

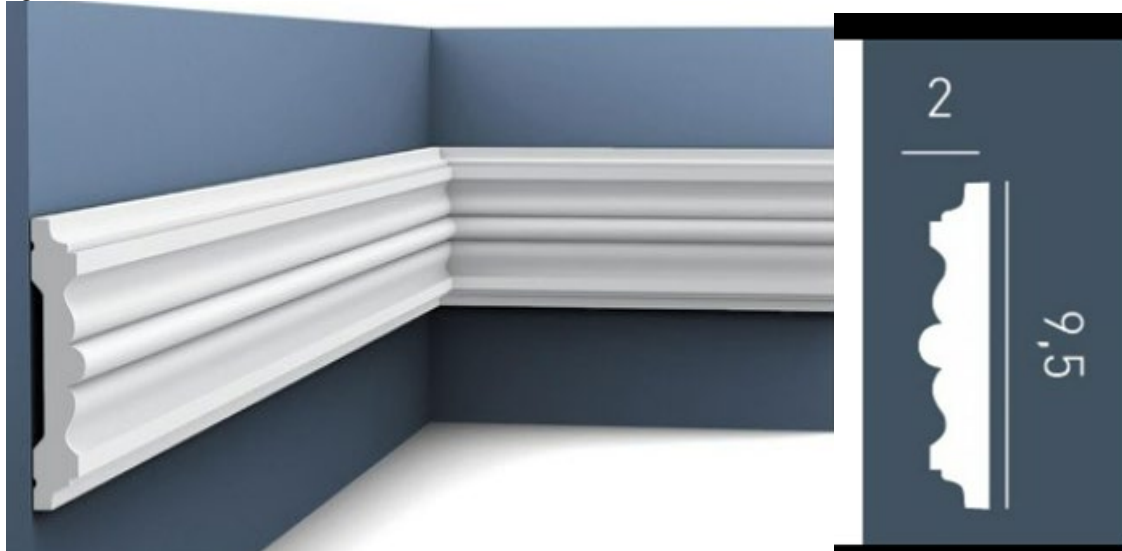
### 2.3 PRODUCT DESCRIPTION

Product description:

Purotouch® product decorative element, tested on reference P9020, with an average thickness of 20 mm and a width of 95 mm the design of the product is available in figure 1

- The Purotouch® product is a polyurethane based foam, with a density of  $\pm 220 \text{ kg/m}^3$ . The Purotouch® product is coated with a white FR coating, thickness of  $250 \mu\text{m}$  and a mass per surface area of  $300 \text{ g/m}^2$ ;
- the decorative element is adhered to the gypsum board substrate with the usage of FDP700, DECOFIX POWER glue, with a density of  $1400 \text{ kg/m}^3$ .

figure 1: P9020



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

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#### 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
EGR055:2019	Testing linear products in the SBI

#### 3.2 REPORTS

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
Efectis Nederland BV THE NETHERLANDS	Orac NV BELGIUM	2021-Efectis-R001413 2021-Efectis-R001414	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	40	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	35	-
	Ignition of filter paper		-	Compliant
Side flame Impingement PUR layer lengthwise	Fs ≤150 mm	6	140	-
	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	48	-
	FIGRA <sub>0.4MJ</sub> [W/s]		0	-
	THR <sub>600s</sub> [MJ]		1.4	-
	LFS < edge		-	Compliant
	SMOGRA [m <sup>2</sup> /s <sup>2</sup> ]		7.8	-
	TSP <sub>600s</sub> [m <sup>2</sup> ]		52	-
	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	<b>B</b>	<b>C</b>	<b>D</b>
Test method(s)			
<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

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##### 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, **Purotouch® decorative element P9020**, 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:

Dimensions	95x20 mm
density	220 kg/m <sup>3</sup>
Other properties	Coated with white FR coating, thickness 250 µm and a mass per surface area of 300 g/m <sup>2</sup> .

This classification is valid for the following end use applications:

Substrate	Paper-faced plasterboard (Minimum class A2 according to EN 13238:2010)
Application	As a horizontal wall plinth or a ceiling plinth or decorative elements
Methods and means of fixing	Glued with FDP700, DECOFIX POWER glue
Joints	Yes, only used as a covering of joints.
Other aspects of end use conditions	Closed surface, no openings or gaps between components

##### 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.

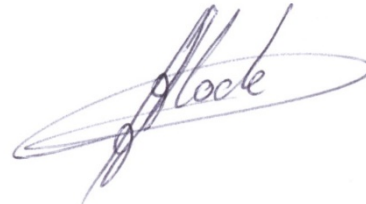
## 5. LIMITATIONS

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



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A.J. Lock  
Manager Testing Reaction to Fire