

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

Classification no.	2019-Efectis-R001524
Sponsor	Sonacoustic International BV De Warren 6 1187 LL AMSTELVEEN THE NETHERLANDS
Product name	Plaster system: Sonaplaster PL Applied to a 30 mm thick glass fibre panel
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Notified body no.	1234
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1. INTRODUCTION

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

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **Sonaplaster PL**, is defined as a wall covering.

2.2 MANUFACTURER/IMPORTER

Sonacoustic International BV
De Warren 6
1187 LL AMSTELVEEN
THE NETHERLANDS

2.3 PRODUCT DESCRIPTION

According to the sponsor the product is from inside out composed of:

- Porous expanded volcanic rock;
- Cellulose Floc;
- Organic Bond;
- Application;
Thickness: 3 - 4 mm, after smoothing out: 2 mm;
Density: 125 kg/m³.

See appendix "MATERIAL SAFETY DATA SHEET" in the test report 2019-Efectis-R001384.

Substrate used:

- Glass fibre panel
Thickness: 30 mm

Tekniska detaljer	
	Värde
Värmekonduktivitet λD (W/m·°C)	Premiumprodukt 0,033
Densitet (kg/m ³)	120-125
Brandreaktion	Euroklass A2-s1, d0
Högsta användningstemp (°C)	200
Förpackning	Krympplastförpackning
Ytskikt	Inget ytskikt

The product has a total thickness of 2 mm, a density of approx. 125 kg/m³ and a mass per unit area of approx. 0.25 kg/m².

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

3.1 APPLICABLE (PRODUCT) STANDARDS

EN 13823:2010+A1:2014	Reaction to fire tests for building products - Building products, excluding floorings exposed to the thermal attack by a single burning item
EN ISO 1716:2018	Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value)
EN 13501-1:2018	Fire classification of construction products and building elements Part 1: Classification using data from reaction to fire tests

3.2 REPORTS

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
Efectis Nederland BV The Netherlands	Sonacoustic International BV THE NETHERLANDS	2019-Efectis-R001384	EN 13823:2014
Efectis France France		EFR-19-HC-002795	EN ISO 1716:2018

3.3 TEST RESULTS

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
	FIGRA _{0,2MJ} [W/s]	3	0	-
	FIGRA _{0,4MJ} [W/s]		0	-
	THR _{600s} [MJ]		0.9	-
	LFS < edge		-	Compliant
	SMOGRA [m ² /s ²]		0	-
	TSP _{600s} [m ²]		35	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		-	Compliant Compliant
EN ISO 1716				
The product is homogeneous				
Product as a whole	[MJ/kg]	3	2.3	Compliant

3.4 CLASSIFICATION CRITERIA

Fire classification of construction products and building elements Excluding floorings and linear pipe thermal insulation products			
Class	Test method(s)	Classification criteria	Additional classification
A2	EN ISO 1182 ^a	$\Delta T \leq 50 \text{ }^\circ\text{C}$; and $\Delta m \leq 50 \%$; and $t_f \leq 20 \text{ s}$	-
	Or		
	EN ISO 1716	$\text{PCS} \leq 3.0 \text{ MJ/kg}$ ^a and $\text{PCS} \leq 4.0 \text{ MJ/m}^2$ ^b and $\text{PCS} \leq 4.0 \text{ MJ/m}^2$ ^d and $\text{PCS} \leq 3.0 \text{ MJ/kg}$ ^e	-
	and		
	EN 13823	$\text{FIGRA} \leq 120 \text{ W/s}$ and $\text{LFS} < \text{edge of specimen}$ and $\text{THR}_{600\text{s}} \leq 7.5 \text{ MJ}$	Smoke production ^f and Flaming droplets/particles ^g

^a For homogeneous products and substantial components of non-homogeneous products.
^b For any external non-substantial component of non-homogeneous products.
^c Alternatively, any external non-substantial component having a $\text{PCS} \leq 2.0 \text{ MJ/m}^2$, provided that the product satisfies the following criteria of EN 13823: $\text{FIGRA} \leq 20 \text{ W/s}$, and $\text{LFS} < \text{edge of specimen}$, and $\text{THR}_{600\text{s}} \leq 4.0 \text{ MJ}$, and s1 , and d0 .
^d For any internal non-substantial component of non-homogeneous products.
^e For the product as a whole.
^f **s1** = $\text{SMOGRA} \leq 30 \text{ m}^2/\text{s}^2$ and $\text{TSP}_{600\text{s}} \leq 50 \text{ m}^2$;
s2 = $\text{SMOGRA} \leq 180 \text{ m}^2/\text{s}^2$ and $\text{TSP}_{600\text{s}} \leq 200 \text{ m}^2$;
s3 = not s1 or s2
^g **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 13501-1:2018.

4.2 CLASSIFICATION

The product, **Sonaplaster PL**, in relation to its reaction to fire behaviour is classified:

A2

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: A2 – s1, d0

4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Thickness	2 mm
Surface density	0.25 kg/m ²
Other properties	Applied to a 30 mm thick glass fibre panel

This classification is valid for the following end use applications:

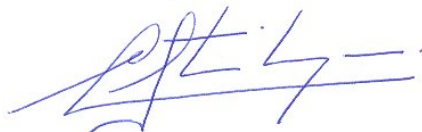
Substrate	Non-combustible (class A1/A2)
Air gap	Not applicable
Methods and means of fixing	By applying
Joints	Excluding joints
Other aspects of end use conditions	Closed surface

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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