

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

Classification no.	2023-Efectis-R000934(E)
Sponsor	Tacito Zwolleweg 1 3771 NR BARNEVELD THE NETHERLANDS
Product name	Acoustic polyester fibre panel several colours
Prepared by	Efectis Nederland BV
Author(s)	D. van Dijk B.Eng. B.R. Knottnerus B.Sc.
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1. INTRODUCTION

This classification report defines the classification assigned to **acoustic polyester fibre panel**, in accordance with the procedures given in EN 13501-1:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **Acoustic polyester fibre panel**, is defined as a wall panel.

2.2 IMPORTER

Tacito
Zwolleweg 1
3771 NR BARNEVELD
THE NETHERLANDS

2.3 PRODUCT DESCRIPTION

100 % Polyester fibre (polyethylene terephthalate i.e. PET), compressed into an acoustic panel.

The product has a total thickness of 9 mm, a density of approx. 211 kg/m³ and a surface density of approx. 1.9 kg/m². Other than the tested colours, the product is available in several other colours.

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+A1:2022	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
EGOLF recommendation 003:2016	Selection of colours for covering a range

3.2 REPORTS

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
Efectis Nederland BV THE NETHERLANDS	Tacito THE NETHERLANDS	2023-Efectis-R000932 2023-Efectis-R000933	EN ISO 11925-2:2020 EN 13823:2020+A1:2022

3.3 TEST RESULTS

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – maximum	Compliance with parameters
EN ISO 11925-2				
Surface flame Impingement, 27-Black	Fs ≤ 150 mm	6	80	-
	Ignition of filter paper		-	Compliant
Bottom edge flame Impingement, 27-Black	Fs ≤ 150 mm	6	85	-
	Ignition of filter paper		-	Compliant
Surface flame Impingement, 04-White	Fs ≤ 150 mm	2	80	-
	Ignition of filter paper		-	Compliant
Bottom edge flame Impingement, 04-White	Fs ≤ 150 mm	2	70	-
	Ignition of filter paper		-	Compliant
Surface flame Impingement, 17-Red	Fs ≤ 150 mm	2	70	-
	Ignition of filter paper		-	Compliant
Bottom edge flame Impingement, 17-Red	Fs ≤ 150 mm	2	80	-
	Ignition of filter paper		-	Compliant

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
27-Black	FIGRA _{0.2MJ} [W/s]	3	82	-
	FIGRA _{0.4MJ} [W/s]		82	-
	THR _{600s} [MJ]		6.3	-
	LFS < edge		-	Compliant
	SMOGRA [m ² /s ²]		15.7	-
	TSP _{600s} [m ²]		117	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant
04-White	FIGRA _{0.2MJ} [W/s]	1	90	-
	FIGRA _{0.4MJ} [W/s]		90	-
	THR _{600s} [MJ]		5.9	-
	LFS < edge		-	Compliant
	SMOGRA [m ² /s ²]		8.2	-
	TSP _{600s} [m ²]		59	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant
17-Red	FIGRA _{0.2MJ} [W/s]	1	78	-
	FIGRA _{0.4MJ} [W/s]		74	-
	THR _{600s} [MJ]		5.6	-
	LFS < edge		-	Compliant
	SMOGRA [m ² /s ²]		8.5	-
	TSP _{600s} [m ²]		68	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant

3.4 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	Fs ≤ 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 13501-1:2018.

4.2 CLASSIFICATION

The product, **Acoustic polyester fibre panel**, 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

4.3.1 Direct field of application

This classification is valid for the following product parameters:

Thickness	9 mm
Surface density	1.9 kg/m ²
Density (felt)	211 k g/m ³
Material (felt)	100 % Polyester fibre (PET)
Other properties	All colours

This classification is valid for the following end use applications:

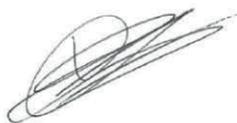
Substrate	Non-combustible (class A1/A2, 870 ± 50 kg/m ³ , according to EN 13238:2010)
Application	As an acoustic wall panel, against a non-combustible substrate.
Air gap	None
Methods and means of fixing	Glued with mounting kit, reference Tacito mounting kit for PET felt, with a usage of 100 ml/m ² .
Joints	Yes
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

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



D. van Dijk B.Eng.
Project Leader Reaction to Fire



B.R. Knottnerus B.Sc.
Manager Reaction to Fire

This report is an English translation of the original report in the Dutch language, with reference 2023-Efectis-R000934. If the Dutch and English versions differ from interpretation, the original Dutch report is normative.