

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

Classification no.	2025-Efectis-R001592[Rev.2]
Sponsor	AKOpanel De Singel 26 7722 RR DALFSEN THE NETHERLANDS
Product name	NXT PETpanel All colors
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1. INTRODUCTION

1.1 PRODUCT NAME

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

1.2 ASSESSMENT INFORMATION

Efectis compared the two versions of the EN 13823 standard and concluded that the results from the tests according to the EN 13823:2020 standard are still valid according to the EN 13823:2020+A1:2022 standard.

1.3 REVISION INFORMATION

This is a revised version of this report. This version supersedes all previous versions of this report that are hereby withdrawn. Details on the changes can be found in the tables below.

Table 1.1: Revision information

Issue	Date of issue	Report no.
First issue	December 2025	2025-Efectis-R001592
First revision	December 2025	2025-Efectis-R001592[Rev.1]
Second revision	April 2026	2025-Efectis-R001592[Rev.2]

1.3.1 First revision detailed information

Table 1.2: First revision information

Chapter of revision	3.3 Test results
Reason of revision	Addition of color names and codes
Consequences of revision	None

Table 1.3: Second revision information

Chapter of revision	3.2 Reports 3.3 Test results 4.3 Field of application
Reason of revision	Addition of test in test report 2026-Efectis-R000678
Consequences of revision	Field of application changed. Addition of joints.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **NXT PETpanel**, is defined as a wall covering.

2.2 IMPORTER

AKOpanel
De Singel 26
7722 RR DALFSEN
THE NETHERLANDS

2.3 PRODUCT DESCRIPTION

Product description:

- 100% non FR polyester, (60% regular PET and 40% Bico PET).

The product has a total thickness of 9 mm, a density of approx. 222 kg/m³ and a mass per unit area of approx. 2 kg/m². The product is available in several colors. The tested colors are Coral Red/546, Daisy White/124 and Black/108

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 13823:2020+A1:2022	
EGR 003:2016	Selection of colours for covering a range
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

3.2 REPORTS

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
Efectis Nederland BV THE NETHERLANDS	AKOpanel	2023-Efectis-R000360 2023-Efectis-R000361 2022-Efectis-R000779 2022-Efectis-R000780 2026-Efectis-R000678	EN ISO 11925-2:2020 EN 13823:2020 EN 13823:2020 EN 13823:2020 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 Black/108	Fs ≤150 mm	6	85	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement Black/108	Fs ≤150 mm	6	140	-
	Ignition of filter paper		-	Compliant
Surface flame Impingement Daisy White/124	Fs ≤150 mm	6	60	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement Daisy White/124	Fs ≤150 mm	6	110	-
	Ignition of filter paper		-	Compliant
Surface flame Impingement Coral Red/546	Fs ≤150 mm	6	70	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement Coral Red/546	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
EN 13823 Report 2023-Efectis-R000361				
Coral Red/546	FIGRA _{0.2MJ} [W/s]	3	95	-
	FIGRA _{0.4MJ} [W/s]		64	-
	THR _{600s} [MJ]		4.6	-
	LFS < edge		-	Compliant
	SMOGRA [m²/s²]		0.0	-
	TSP _{600s} [m²]		32	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant
EN 13823 Report 2022-Efectis-R000779				
Daisy White/124	FIGRA _{0.2MJ} [W/s]	1	55	-
	FIGRA _{0.4MJ} [W/s]		44	-
	THR _{600s} [MJ]		3.3	-
	LFS < edge		-	Compliant
	SMOGRA [m²/s²]		1.2	-
	TSP _{600s} [m²]		29	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant
EN 13823 Report 2022-Efectis-R000780				
Black/108	FIGRA _{0.2MJ} [W/s]	1	32	-
	FIGRA _{0.4MJ} [W/s]		29	-
	THR _{600s} [MJ]		3.2	-
	LFS < edge		-	Compliant
	SMOGRA [m²/s²]		0.0	-
	TSP _{600s} [m²]		33	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant
EN 13823 Report 2026-Efectis-R000678				
Coral Red/546 With joints	FIGRA _{0.2MJ} [W/s]	1	55	-
	FIGRA _{0.4MJ} [W/s]		55	-
	THR _{600s} [MJ]		3.7	-
	LFS < edge		-	Compliant
	SMOGRA [m²/s²]		0.0	-
	TSP _{600s} [m²]		30	-
	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 Test method(s)	B	C	D
EN ISO 11925-2 Exposure = 30 s	$F_s \leq 150$ mm within 60 s Ignition of the paper in EN ISO 11925-2 results in a d2 classification.		
EN 13823	$FIGRA_{0.2 \text{ MJ}} \leq 120$ W/s LFS < edge of specimen $THR_{600s} \leq 7.5$ MJ	$FIGRA_{0.4 \text{ MJ}} \leq 250$ W/s LFS < edge of specimen $THR_{600s} \leq 15$ MJ	$FIGRA_{0.4 \text{ MJ}} \leq 750$ W/s
Additional classification			
Smoke production	s1 = $SMOGRA \leq 30 \text{ m}^2/\text{s}^2$ and $TSP_{600s} \leq 50 \text{ m}^2$; s2 = $SMOGRA \leq 180 \text{ m}^2/\text{s}^2$ and $TSP_{600s} \leq 200 \text{ m}^2$; 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, **NXT PETpanel**, 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	9 mm
Surface density	2 kg/m ²
Other properties	Available in all colors

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	Directly onto the substrate
Air gap	No
Methods and means of fixing	Mechanically fixed
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.



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