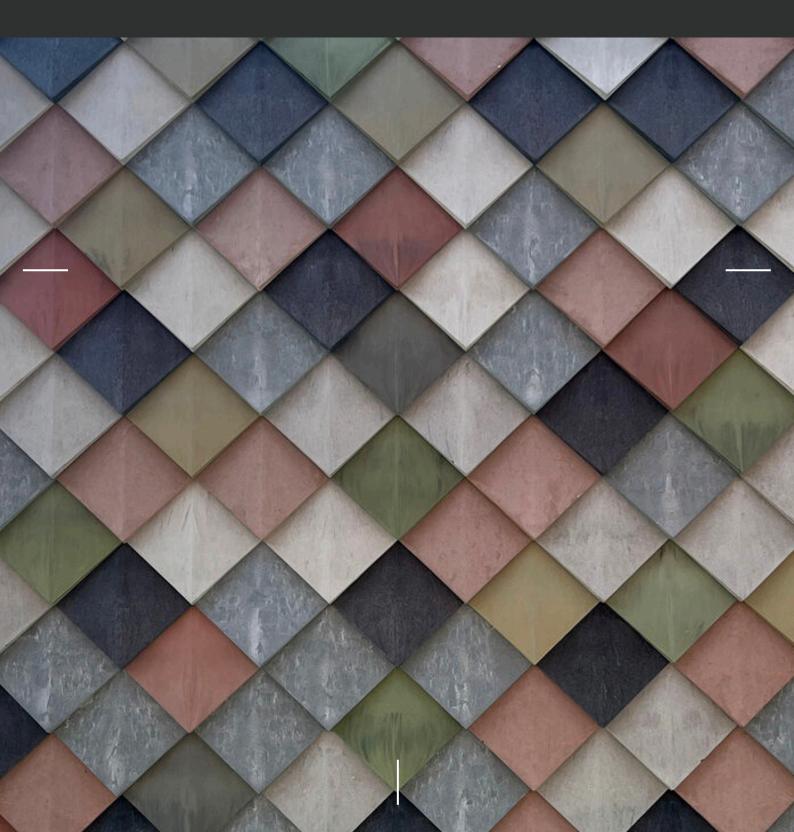


Pretty Plastic Panels (First One)

Fire Classification 2022





Efectis Nederland BV P.O. Box 554 | 2665 ZN Bleiswijk Brandpuntlaan Zuid 16 | 2665 NZ Bleiswijk The Netherlands +31 88 3473 723 nederland@efectis.com

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

Classification no.	2024-Efectis-R000425[Rev.1]
Sponsor	Pretty Plastic Karperweg 41 1075 LB AMSTERDAM THE NETHERLANDS
Product name	Second High recycled PVC tile on aluminium frame
Prepared by	Efectis Nederland BV
Author(s)	D. van Dijk B.Eng. A.J. Lock
	A.J. LUCK
Project number	ENL-24-000011
Date of issue	June 2024
Number of pages	5



All rights reserved. No part of this publication may be reproduced and/or published without the previous written consent of Efectis Nederland BV. Submitting the report for inspection to parties who have a direct interest is permitted.

In case this report was drafted on instructions, the rights and obligations of contracting parties are subject to either the Standard Conditions of Efectis Nederland BV or the relevant agreement concluded between the contracting parties.



Efectis Nederland BV 2024-Efectis-R000425[Rev.1] June 2024 Pretty Plastic

1. INTRODUCTION

This classification report defines the classification assigned to **Second High recycled PVC tile on aluminium frame**, in accordance with the procedures given in EN 13501-1:2018.

1.1 REVISION INFORMATION

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 This version supersedes all previous versions of this reports that are hereby withdrawn.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

Table	11.	Revision	information
Iabic	1.1.	11011011	innonnation

Issue	Date of issue	Report no.
First issue	May of 2024	2024-Efectis-R000425
First revision	June of 2024	2024-Efectis-R000425[Rev.1]

1.1.1 First revision detailed information

Table 1.2: First revision information

Chapter of revision	Paragraph 2.3: Product description	
Reason of revision	 Erroneously listed product: "huntite and magnesite"; Supplemental fire retardant: aluminium hydroxide. 	
Consequences of revision	 Textual consequences only; Addition of applicable fire retardant. 	

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, Second High recycled PVC tile on aluminium frame, is defined as a wall covering.

2.2 MANUFACTURER

Pretty Plastic Karperweg 41 1075 LB AMSTERDAM THE NETHERLANDS

2.3 PRODUCT DESCRIPTION

According to the sponsor, the product is composed of recycled rigid PVC supplier DECEUNINCK N.V. (Recycled Material category A, according to EN 12608-1:2016 par. 3.4: RM_a):

- with 3 % fire retardant additives containing a minimum of 99.0 % Aluminium Hydroxide (Al(OH)₃), a maximum of 0.02 % iron oxide (Fe₂O₃) and a maximum of 0.01 % silicon dioxide SiO₂, "silica");
- attached to aluminium omega-profiles (25x40mm).

The product has a total thickness (height) of 67 mm, a density of 600 kg/m³ and a mass per unit area of 13.3 kg/m². A single tile measures 294 × 294 mm and weighs 1.2 kg. The type is referred to as "T2".



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

3.2 REPORTS

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
Efectis Nederland BV THE NETHERLANDS	Pretty Plastic THE NETHERLANDS	2024-Efectis- R000423[Rev.1] 2024-Efectis- R000424[Rev.1]	EN ISO 11925-2:2020 EN 13823:2020+A1:2022

3.3 TEST RESULTS

			Results	
Test method and test number	Parameter	No. tests	Continuous parameter – maximum	Compliance with parameters
EN ISO 11925-2				
Surface flame	Fs ≤150 mm	6	55	-
impingement	Ignition of filter paper	6	-	Compliant
Edge flame	Fs ≤150 mm	6	45	-
Impingement	Ignition of filter paper	6	-	Compliant

	Parameter					Res	ults
Test method and test number			No. tests	Continuous parameter – mean (m)	Compliance with parameters		
EN 13823							
Second High	FIGRA _{0.2MJ}	[W/s]		82	-		
PVC with additives	FIGRA _{0.4MJ}	[W/s]	3	80	-		
	THR _{600s}	[MJ]	3	6.9	-		
	LFS < edge			-	Compliant		



Efectis Nederland BV 2024-Efectis-R000425[Rev.1] June 2024 Pretty Plastic



SMOGRA	[m²/s²]	83.6	-
TSP _{600s}	[m²]	561	-
Flaming debris - flaming ≤ 10 s - flaming > 10 s			Compliant Compliant

3.4 CLASSIFICATION CRITERIA

		ion products and buildir ar pipe thermal insulation p	•
Classification crit	eria		
Class Test method(s)	В	С	D
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	$ \begin{array}{l} \mbox{FIGRA}_{0.2\mbox{MJ}} \leq 120\mbox{W/s} \\ \mbox{LFS} < \mbox{edge of specimen} \\ \mbox{THR}_{600s} \leq 7.5\mbox{MJ} \end{array} \qquad \begin{array}{l} \mbox{FIGRA}_{0.4\mbox{MJ}} \leq 250\mbox{W/s} \\ \mbox{LFS} < \mbox{edge of specimen} \\ \mbox{THR}_{600s} \leq 15\mbox{MJ} \end{array} \qquad \begin{array}{l} \mbox{FIGRA}_{0.4\mbox{MJ}} \leq 750\mbox{W/s} \\ \mbox{THR}_{600s} \leq 15\mbox{MJ} \end{array} $		
Additional classif	ication		
Smoke production	on 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, **Second High**, in relation to its reaction to fire behaviour is classified:

В

The additional classification in relation to smoke production is:

s3

The additional classification in relation to flaming droplets / particles is:

d0

Reaction to fire classification: B - s3, d0



Efectis Nederland BV 2024-Efectis-R000425[Rev.1] June 2024 Pretty Plastic

4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Thickness	67 mm
Surface density	13.3 kg/m ²
Other properties	Reference T2. Attached to aluminium omega-profiles. Tile dimensions 294x294 mm. Specified for one colour (grey). Applicable fire retardants: • Kemipal 80/200 (Kemira Oyj); • Portaflame SG-E (Sibelco).

This classification is valid for the following end use applications:

Substrate	Non-combustible (class A1/A2, 870 kg/m³, according to EN 13238:2010).
Application	Applied to a wall.
Air gap	Yes, 25 mm with omega profiles.
Methods and means of fixing	PVC tiles mechanically attached to aluminium frame. Aluminium frame mechanically attached to wall.
Joints	Yes.
Other aspects of end use conditions	Open surface with 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

flock

A.J. Lock Senior Project Leader Reaction to Fire