

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2007+A1:2009

Classification no.	2018-Efectis-R002324[Rev.1]
Sponsor	Unigulf Air Conditioning Industries LLC Plot 5970580, DIP 2 P.O. Box 116145 Dubai, UAE
Product name	Easy Pre Insulated Panel AM
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1. INTRODUCTION

This classification report defines the classification assigned to **Easy Pre Insulated Panel AM** in accordance with the procedures given in EN 13501-1:2007+A1:2009.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **Easy Pre Insulated Panel AM**, is defined as a duct panel.

2.2 MANUFACTURER

Unigulf Air Conditioning Industries LLC
Plot 5970580, DIP 2
P.O. Box 116145
Dubai, UAE

2.3 PRODUCT DESCRIPTION

According to the sponsor the product is composed of:

- PIR, density $46 \pm 2 \text{ kg/m}^3$, thickness $20 \pm 0.5 \text{ mm}$;
- Aluminium facing, double sided, thickness $80 \mu\text{m}$;
- Aluminium profile, type invisible flanges and chair flanges, thickness 1.2 mm .

The product has a total thickness of 20 mm , a density of approx. 46 kg/m^3 (PIR) and a mass per unit area of approx. 1.3 kg/m^2 .

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

3.1 APPLICABLE (PRODUCT) STANDARDS

EN ISO 11925-2:2010	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
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 15715:2009	Thermal insulation products - Instructions for mounting and fixing for reaction to fire testing - Factory made products
EN 13501-1:2007 +A1:2009	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	Unigulf Air Conditioning Industries LLC DUBAI, U.A.E.	2018-Efectis-R002130 2018-Efectis-R002131	EN ISO 11925-2:2010 EN 13823:2014

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	Fs ≤150 mm	6	25	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	65	-
	Ignition of filter paper		-	Compliant

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
	FIGRA _{0.2MJ} [W/s]	3	117	-
	FIGRA _{0.4MJ} [W/s]		114	-
	THR _{600s} [MJ]		3.3	-
	LFS < edge		-	Compliant
	SMOGRA [m ² /s ²]		51.6	-
	TSP _{600s} [m ²]		94	-
	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	F _s ≤ 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 13501-1:2007+A1:2009.

4.2 CLASSIFICATION

The product, **Easy Pre Insulated Panel AM**, 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:

Thickness	20 +/- 0.5 mm
Surface density	Approx. 1.3 kg/m ²
Facing	Aluminium, double sided, 80 µm
Other properties	Including aluminium profiled rim

This classification is valid for the following end use applications:

Substrate	Non-combustible (class A1/A2 according to EN 13238:2010)
Air gap	No air gap
Methods and means of fixing	Mechanically
Joints	Including 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

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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