



PRODUCT SHEET

ACOUSTIC PET FELT PANELS





ATLAS MALL COMPLEX, TEHRAN

■ WOOL PANEL COLOR



HW-31



HW-34



HW-05



HW-04



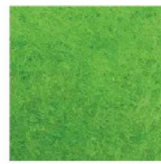
HW-32



HW-35



HW-43



HW-46



HW-46



HW-02



HW-08



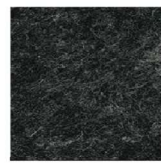
HW-24



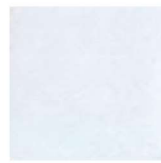
HW-36



HW-37



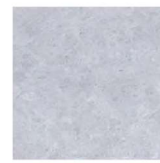
HW-03



HW-07



HW-11



HW-30



HW-19



HW-49



HW-13



HW-14



HW-25



HW-01

PETFELT Acoustic Panel

FIRE RESISTANT REPORT



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TESTS AND RESULTS

Test Conducted:
This test is conducted as per EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests, Class B. And the test methods as following:
1. EN 13823:2010 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.
2. EN ISO 11925-2:2010 Reaction to fire tests - Ignitability of building products subjected to direct impingement of flame - Part 0: Single flame source test.

Mounting and fixing (For EN 13823):

The specimen was installed with screws on the standard substrate (calcium silicate boards with a density of 900 kg/m³).

Test Results:

Test method	Parameter	Number of tests	Results
EN 13823	FIGRA _{ave} (W/s)	3	5.1
	THR _{600s} (MJ)		7.3
	SMOGR _{ave} (m ³ /s)		7.3
	TSP _{600s} (m ³)		Yes
EN ISO 11925-2	LFS < edge of specimen	6	No
	Flaming particles or droplets		Yes
EN ISO 11925-2	Exposure = 30 s	6	Ignition of the filter paper
			No

Remark:

FIGRA - Fire growth rate index used for classification purposes [W/s]
For the classes A2 and B, FIGRA_{ave} MJ
For the classes C and D, FIGRA_{ave} MJ
LFS - Lateral flame spread [m]
THR_{600s} - Total heat release within 600 s [MJ]
SMOGR_{ave} - Smoke growth rate [m³/s]
TSP_{600s} - Total smoke production within 600 s [m³]



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Classification and direct field of application:

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

Classification:

The product "PET ACOUSTIC PANEL" classification is as following:

Fire behaviour	Smoke production	Flaming droplets
B	s	1
Reaction to fire classification: B - s1, d0		

Remark:

The classes with their corresponding fire performance are given in annex A. Reaction to fire classification is based on the 7-step scale of A1 to F, where A1 is good and F is bad

Statement:

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Warning:

This classification report does not represent type approval or certification of the product. The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

Annex A

Table 1 - Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products.

Class	Test method(s)	Classification criteria	Additional classification
A1	EN ISO 1182* and EN ISO 1716	ΔT _{700°C} and ΔT _{600°C} ≤ no sustained flaming) and PCS2.0MJ/kg [†] and PCS3.4MJ/kg [†] and PCS3.0MJ/kg [†]	-
	EN ISO 1182* or EN ISO 1716	ΔT _{750°C} and ΔT _{600°C} ≤ 1520 s and PCS3.0MJ/kg [†] and PCS4.0MJ/kg [†] and PCS3.0MJ/kg [†]	-



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EN 13823	FIGRA<120W/s and LFS<edge of specimen and THR _{600s} <7.5MJ	Smoke production and flaming droplets/particles †
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B	EN 13823 and EN ISO 11925-2 [‡] Exposure = 30s	FIGRA<120W/s and LFS<edge of specimen and THR _{600s} <7.5MJ Fast150mm within 60 s	Smoke production † and flaming droplets/particles †
C	EN 13823 and EN ISO 11925-2 [‡] Exposure = 30s	FIGRA<250W/s and LFS<edge of specimen and THR _{600s} <15MJ Fast150mm within 60 s	Smoke production † and flaming droplets/particles †
D	EN 13823 and EN ISO 11925-2 [‡] Exposure = 30s	FIGRA<750W/s and LFS<edge of specimen and THR _{600s} <30MJ Fast150mm within 60 s	Smoke production † and flaming droplets/particles †
E	EN ISO 11925-2 [‡] Exposure = 15s	Fast150mm within 20 s	flaming droplets/particles †
F	No performance determined		

* For homogeneous products and substantial components of non-homogeneous products.
† For any external non-substantial component of non-homogeneous products.
‡ Alternatively, any external non-substantial component having a PCS < 0.0 MJ/m², provided that the product satisfies the following criteria of EN 13823: FIGRA < 20 W/s, and LFS < edge of specimen, and THR_{600s} < 4.0 MJ, and d1, and d2.
§ For any internal non-substantial component of non-homogeneous products.
¶ In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.
‡ s1 = SMOGR_{ave} < 30m³/s and TSP_{600s} < 50m³; s2 = SMOGR_{ave} < 180m³/s and TSP_{600s} < 200m³; s3 = not s1 or s2.
§ d1 = no flaming droplets/particles in EN 13823 within 600 s; d2 = not d1 or d1.
¶ Ignition of the paper in EN ISO 11925-2 results in a d2 classification.
‡ Pass = no ignition of the paper (no classification); Fail = ignition of the paper (d2 classification).
§ Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.



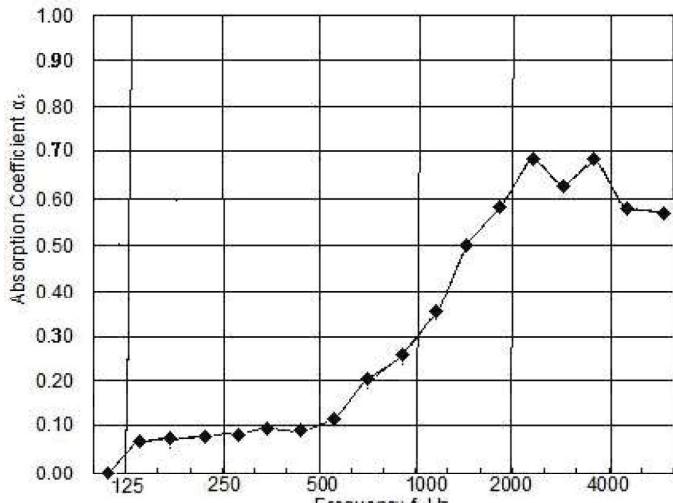
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RESULTS

Fire Behaviour	Smoke Production	Flaming Droplet
B	S	1
		d
		0

Reaction to Fire Classification: B_S, d0

B	EN 13823	FIGRA < 120W/s LFS < edge of specimen THR _{600s} < 7.5 MJ	Smoke production and flaming droplets/particles
	EN ISO 2_11925 Exposure = 30s	f _s < 150mm within 60s	



Frequency f, Hz	a _s (1/3 oct)
100	0.00
125	0.05
160	0.05
200	0.05
250	0.07
315	0.08
400	0.07
500	0.12
630	0.20
800	0.25
1000	0.35
1250	0.51
1600	0.57
2000	0.68
2500	0.64
3150	0.67
4000	0.56
5000	0.55
6300	/
8000	/



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