

Reaction to fire classification report

1. Introduction

This classification report determines the classification granted to *the overhead acoustic panel produced by Paweł Sumiński Fabryka Miękkich Ścian*, ul. Glubczycka 37/3, 02-424 Warsaw, in accordance with the procedures indicated in the PN-EN 13501-1+A1:2010 standard.



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The Institute of Ceramics and Construction Materials has the status of notified body No. 1487 in the field of reaction to fire testing

REACTION TO FIRE CLASSIFICATION in accordance with PN-EN 13501-1+A1:2010

Principal	<i>Paweł Sumiński Fabryka Miękkich Ścian Ul. Glubczycka 37/3, 02-424 Warszawa</i>
Prepared	<i>Ceramics and Construction Materials Institute Glass and Construction Materials Department in Cracow Ul. Cementowa 8, 31-983 Kraków Gypsum and Construction Chemicals Company</i>
Notified Unit no.	<i>1487</i>
Name of the product	<i>Fluffo AIR overhead acoustic panel</i>
Rating Report No.	<i>SG-64/17/N</i>
Release No.	<i>1</i>
Date of release	<i>22.12.2017</i>

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2. Detailed information about the classified product

2.1 General Provisions

Product, *Fluffo AIR overhead acoustic panel produced by Paweł Sumiński Fabryka Miękkich Ścian*, consists of high-density glass wool secured with glass fibre covered with polyamide flock. The product is used as a suspended, acoustic ceiling panel.

2.2 Description of the product

Product, *Fluffo AIR overhead acoustic panels produced by Paweł Sumiński Fabryka Miękkich Ścian*, has been described below or has been provided in the research reports, which are the basis of the classification, described in 3.1.

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Description of the product

Fluffo AIR overhead acoustic panel consisting of high-density glass wool secured with glass fibre (thickness 40mm) covered with polyamide flock. Total thickness of the sample: 41mm, density of the sample: 0,07 g/cm³

3. Research reports and research results which are the basis for the classification

3.1 Research reports

Name of the laboratory	Name of the Principal	Research report	Research method
<i>Gypsum and Construction Chemicals Company ICiMB, OSiMB in Cracow</i>	<i>Paweł Sumiński Fabryka Miękkich Ścian Ul. Głębczycka 37/3, 02-424 Warszawa</i>	<i>136/17/SG/N</i>	<i>PN-EN 13823:2010</i>
<i>Gypsum and Construction Chemicals Company ICiMB, OSiMB in Cracow</i>	<i>Paweł Sumiński Fabryka Miękkich Ścian Ul. Głębczycka 37/3, 02-424 Warszawa</i>	<i>137/17/SG/N</i>	<i>PN-EN ISO 11925-2:2010</i>

3.2 Research results

Research method and number	Parameter	Number of tests	Results	
			Continuous parameter – average value (m)	Compliance with the parameter
PN-EN 13823:2010 136/17/SG/N	<i>FIGRA_{0,2MJ} [W/s]</i>	3	<i>570,6</i>	<i>n/a</i>
	<i>FIGRA_{0,4MJ} [W/s]</i>		<i>524,92</i>	<i>n/a</i>
	<i>LFS < edge of the sample</i>		<i>n/a</i>	<i>Yes</i>
	<i>THR_{600s} [MJ]</i>		<i>2,13</i>	<i>n/a</i>
	<i>SMOGR_A [m²/s²]</i>		<i>9,95</i>	<i>n/a</i>
	<i>TSP_{600s} [m²]</i>		<i>7,26</i>	<i>n/a</i>
	<i>Flaming droplets/particles</i>		<i>n/a</i>	<i>No</i>
PN-EN ISO 11925-2:2010 69/16/SG/N	<i>F_s ≤ 150mm in 60s time</i>	12	<i>n/a</i>	<i>Yes</i>

4. Classification and its scope of application

4.1 Classification base

The rating has been determined in compliance with PN-EN 13501-1+A1:2010 standard.

4.2 Classification

Product, *Fluffo AIR overhead acoustic panel produced by Paweł Sumiński Fabryka Miękkich Ścian*, was classified in terms of its reaction to fire as follows:

D

Due to production of smoke, the product obtained additional classification:

s1

Due to presence of flaming droplets/particles, the product obtained additional classification:

d0

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The classification format for reaction to fire of construction products, with the exception of floors and linear products for thermal wire insulation is as follows:

Fire characteristic		Smoke production			Flaming droplets	
<i>D</i>	<i>-</i>	<i>s</i>	<i>1</i>	<i>,</i>	<i>d</i>	<i>0</i>

Reaction to fire classification: <i>D-s1,d0</i>
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4.3 Scope of application

This classification is valid for the Fluffo AIR overhead acoustic panel produced by Paweł Sumiński Fabryka Miękkich Ścian described in the point 2.2 of this classification report.

Classification applies to products mounted on non-flammable surfaces classified as A1 or A2-s1, d0, with the aid of adhesives mentioned in the product description or other mechanical accessories.

This classification applies to the end uses in accordance with the technical requirements, which must be fulfilled by buildings and their location. In accordance with the ordinance of the Minister of Infrastructure of 12 April, 2002 on technical conditions to be met by buildings and their location, together with subsequent changes, this rating corresponds to the product description of *Fluffo AIR overhead, acoustic panel produced by Paweł Sumiński Fabryka Miękkich Ścian* as ***flame retardant and non-dripping***.

5. Restrictions

This classification document is not a technical approval or product certificate.

This report loses its validity in case of modifications to the product or its production process, also where the system of factory production control undergoes significant changes.

Report approved by:
MSc Eng. Michał Wieczorek

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Gipsu i Chemii Budowlanej
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