



**PAVUS**<sup>®</sup>  
FIRE TESTING INSTITUTE

## PAVUS, a.s.

AUTHORIZED BODY AB 216  
NOTIFIED BODY 1391  
ACCREDITED CERTIFICATION BODY FOR PRODUCT CERTIFICATION No. 3041

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# REACTION TO FIRE CLASSIFICATION REPORT

**Subject of classification:** *Construction products excluding floorings and linear pipe thermal insulation products in accordance with ČSN EN 13501-1:2019, clause 11  
Floor coverings in accordance with ČSN EN 13501-1:2019, clause 12*

**Report No.:**

**PK1-01-23-027-E-0**

**Product name:**

*SEMPRE TERM GRAFIT EPS 033  
(boards from expanded polystyrene)*

**Sponsor:**

*Technický a zkušební ústav stavební Praha, s.p.  
Pobočka Ostrava  
U Studia 14  
700 30 Ostrava - Zábřeh  
Czech Republic*

**For company:**

*SEMPRE Farby Sp. z o.o.  
Ul. Gen. J. Kuźtronia 60  
43-301 Bielsko-Biała  
Polska*

**Prepared by:**

*PAVUS, a.s.  
Accredited certification body for product certification No. 3041  
- accreditation issued by Czech Accreditation Institute, p. s. c.,  
- Certificate of Accreditation No. 588/2022  
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## 1 INTRODUCTION

- 1.1 This Classification Report specifies classification method for *SEMPRE TERM GRAFIT EPS 033 (boards from expanded polystyrene)* in conformity with the procedures set forth in ČSN EN 13501-1:2019.
- 1.2 This Classification Report has 3 pages and it can be used or reproduced as a whole only.

## 2 DETAILS OF CLASSIFIED PRODUCT

### 2.1 General

The product *SEMPRE TERM GRAFIT EPS 031 (boards from expanded polystyrene)* is manufactured by the company *SEMPRE Farby Sp. z o.o.*, Ul. Gen. J. Kuźnia 60, 43-301 Bielsko-Biala, Polska. Boards from expanded polystyrene *SEMPRE TERM GRAFIT EPS 031* are used *SEMPRE TERM GRAFIT EPS 031* polystyrene boards made of polystyrene foam are used for insulation requiring transmission of low mechanical loads, including thermal insulation of walls in External Thermal Insulation Composite Systems (ETICS, light - wet method), thermal insulation of multi-layer walls with a ventilated or non-ventilated air gap, thermal insulation of ring beams as stay-in-place formwork under the plastering, thermal insulation of lintels and panelling, external prefabricated composite sandwich panels, insulation of ceilings from below in External Thermal Insulation Composite Systems, insulation of sloped roof under the load-bearing structure.

### 2.2 Product description

Thickness: min 10 mm  
 Density: (12 - 14) kg/m<sup>3</sup>  
 Composition: EPS

## 3 REPORTS AND RESULTS IN SUPPORT OF THIS CLASSIFICATION

### 3.1 Reports

Name of the Laboratory Address Accreditation number:	Name of sponsor of the Test Report	Report number Date of issue	Test method
<i>PAVUS, a.s.</i> <i>Veselí nad Lužnicí</i> <i>AZL č. 1026</i>	<i>Technický a zkušební ústav</i> <i>stavební Praha, s.p.</i> <i>Pobočka Ostrava</i> <i>U Studia 14</i> <i>700 30 Ostrava - Zábřeh</i> <i>Česká republika</i>	<i>Pr-23-1.077</i> <i>2023-06-09</i>	<i>ČSN EN ISO 11925-2:2020</i> <i>ČSN EN 15715:2010</i>

### 3.2 Results

Test method	Parameter	Number of tests	Results	
			Continuous parameter-mean	Compliance with parameters
<i>ČSN EN ISO 11925-2</i> <i>Surface exposure</i> <i>Thickness of 10 mm</i>	<i>F<sub>s</sub> ≤ 150 mm up to 20 s</i> <i>Filter paper non-ignition</i>	6	- -	<i>yes (E, E<sub>n</sub>)</i> <i>yes (E, E<sub>n</sub>)</i>
<i>ČSN EN ISO 11925-2</i> <i>Edge exposure</i> <i>Thickness of 10 mm</i>	<i>F<sub>s</sub> ≤ 150 mm up to 20 s</i> <i>Filter paper non-ignition</i>	6	- -	<i>yes (E, E<sub>n</sub>)</i> <i>yes (E, E<sub>n</sub>)</i>

## 4 CLASSIFICATION AND FIELD OF APPLICATION

### 4.1 Reference of classification

This classification has been carried out in accordance with ČSN EN 13501-1:2019.

### 4.2 Classification

The product – *SEMPRE TERM GRAFIT EPS 033 (boards from expanded polystyrene)* - in relation to its reaction to fire behaviour is classified:

**Reaction to fire classification: E, E<sub>fl</sub>**

### 4.3 Field of application

This classification is valid for the following product parameters:

Thickness: 10 mm and more  
Density: (12 - 14) kg/m<sup>3</sup>  
Composition: cannot be changed

The classification is valid for the following end use applications:

The product *SEMPRE TERM GRAFIT EPS 033 (boards from expanded polystyrene)* is intended for using in accordance with clause 2.1 of this report.

## 5 LIMITATIONS

This classification is valid unless the conditions, under which it was issued, have been changed (i.e., until the materials used, the composition or design of the product or the technical regulations relating to the product change).

The sponsor may request the issuing authority to review the influence of changes on the classification validity.

This classification document does not represent type approval or certification of the product.

Elaborated by:



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Pavla HEJNÁ  
Fire testing laboratory

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Approved by:



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Jan TRIPES

