



**PAVUS, a.s.**  
AUTHORIZED BODY 216  
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ACCREDITED CERTIFICATION BODY FOR  
PRODUCT CERTIFICATION NO. 3041

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# CLASSIFICATION REPORT ON ROOFS EXPOSED TO EXTERNAL FIRE

**Subject of classification:** *Roofs and roof covering  
according to ČSN EN 13501-5+A1: 2010, art.8.3 and 9*

**Identification number:**

**PK5-03-14-006-E-0**

**Name and type of element:**

*Waterproof membrane PLASTIFOIL F, thickness of 1.2 mm*

**Sponsor:**

Technický a zkušební ústav stavební Praha s.p.  
Branch České Budějovice  
Nemanická 441  
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Czech Republic

**For company:**

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**Issuing organization:**

*PAVUS, a.s.*  
*Authorized body 216*  
*Notified body 1391*

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## 1. INTRODUCTION

- 1.1. This Classification report specifies the classification of the concerned element in conformity to the procedures set forth in ČSN EN 13501-5 + A1.
- 1.2. This Classification report includes 3 pages and may be used as a whole only.

## 2. DETAILED INFORMATION ON THE CLASSIFIED ELEMENT

### 2.1. General

*Waterproof membrane PLASTIFOIL F (thickness of 1.2 mm)* is a PVC-P based roof membrane reinforced with polyester grid.

### 2.2 Detailed roof description

Composition from the top layer – test specimen 1 and 2:

*Waterproof membrane PLASTIFOIL F, thickness of 1.2 mm*

Rigid mineral wool, thickness of 40 mm

Thermal insulation – boards of expanded polystyrene EPS 70S of 200 mm in thickness

Rigid mineral wool, thickness of 20 mm

Vapour barrier from PE foil (thickness of 0.2 mm)

Substrate of trapezoidal sheet

Anchorage of *waterproof membrane PLASTIFOIL F (thickness of 1.2 mm)*, rigid mineral wool (thickness of 40 mm), boards of expanded polystyrene EPS 70S (thickness of 200 mm), rigid mineral wool (thickness of 20 mm) and vapour barrier from PE foil (thickness of 0.2 mm) to substrate boards from trapezoidal sheet was performed mechanically by anchors placed in membrane overlap.

The tests were carried out on substrates of trapezoidal sheet according to 6.5.4.4.2 d) – the results apply for all profiled and imperforate steel sheets and all non-flammable continuous boards with a thickness of 10 mm at least.

The tested roof pitch of 5° is in practice specified for a roof pitch up to 10° as per art. 6.5.4.4.1.

## 3. TEST REPORTS / EXTENDED APPLICATION REPORTS AND TEST RESULTS USED FOR THIS CLASSIFICATION

### 3.1. Test report

Name of laboratory Address Accreditation number	Sponsor of test report	Report number	Test method
PAVUS, a. s. Veselí nad Lužnicí ATL No. 1026	Technický a zkušební ústav stavební Praha s.p. Branch České Budějovice Nemanická 441 370 10 České Budějovice Czech Republic	Pr-14-2.055 2014-05-16	ČSN P CEN/TS 1187 –test method 3

3.2. Test results of roof exposed to external fire

Pitch: 5°

Substrate: substrate board from trapezoid sheet and composition as per 2.2.

Parameter	Criteria			Test results		Conformity		
	Class B <sub>ROOF</sub> (t3)	Class C <sub>ROOF</sub> (t3)	Class D <sub>ROOF</sub> (t3)	Specimen 1	Specimen 2	Class B <sub>ROOF</sub> (t3)	Class C <sub>ROOF</sub> (t3)	Class D <sub>ROOF</sub> (t3)
Time of external fire spread $T_E$	≥ 30 min	≥ 10 min		30 min	30 min	yes	-	-
Time to fire penetration $T_p$	≥ 30 min	≥ 15 min	> 5 min	-	-	yes	-	-

4. CLASSIFICATION AND DIRECT FIELD OF APPLICATION

4.1. Reference of classification

This classification was carried out in conformity with article 8.3 and 9 of ČSN EN 13501 - 5 + A1.

4.2 Classification

The product – *waterproof membrane PLASTIFOIL F (thickness of 1.2 mm)* – has been classified based on its behaviour under tests of roofs exposed to external fire into the following class:

**B** ROOF (t3)

4.3. Field of application

This classification applies for following end use applications:

*Waterproof membrane PLASTIFOIL F (thickness of 1.2 mm)* is intended as an anchored band for waterproof systems of roofs with a pitch up to 10°. It applies for profiled and imperforate steel sheets and all non-flammable continuous boards with a thickness of 10 mm at least.

5. LIMITATION

This Classification report does not represent type approval or certification of the product.

This classification is valid unless the conditions, under which it was issued, have been changed. The customer may request the issuing authority to review the influence of changes to the classification validity.

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