



## PAVUS, a.s.

AUTHORIZED BODY 216  
NOTIFIED BODY 1391  
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 :**

**PK5-03-12-008-A-0**

**Name and type of  
element :**

*Waterproof membrane FATRAFOL 810/V of 1.2 mm up to  
2.0 mm in thickness*

**Sponsor :**

*Fatra, a.s.*

*tř. Tomáše Bati 1541*

*763 61 Napajedla*

**Issuing organization :**

*PAVUS, a.s.*

*Authorized body 216*

*Notified body 1391*

*Accredited certification body for product certification No.3041  
– accreditation issued by Czech Accreditation Institute, o.p.s.  
– certificate of accreditation No. 240/2011*

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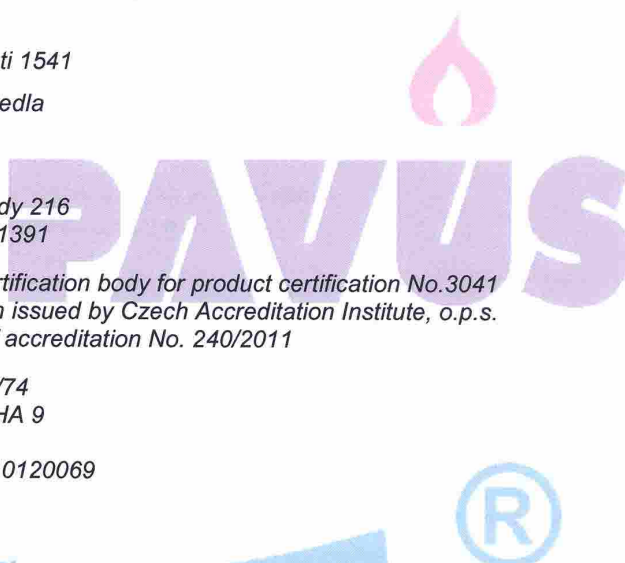
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## 1. INTRODUCTION

- 1.1. This Classification report specifies the classification of the concerned element in conformity to the procedures set forth in ČSN EN 13501-2+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 FATRAFOL 810/V of 1.2 mm up to 2.0 mm in thickness* is a roof waterproof PVC-P membrane is produced by a multi-extrusion processing, reinforced with a polyester grid.

### 2.2. Detailed roof description

Composition from the top layer – specimen 1 and 2:

*Waterproof membrane FATRAFOL 810/V of 1.2 mm in thickness*

Thermal insulation – PIR-boards, thickness of 60 mm

Vapour barrier – PE-foil, thickness of 0.20 mm

Chipboard panel baseboard

Anchorage of waterproof membrane FATRAFOL 810/V (thickness of 1.2 mm), of thermal insulation represented by PIR-boards (thickness of 60 mm) and of vapour barrier of PE-foil (thickness of 0.20 mm) into the chipboard panel baseboard was carried out mechanically using anchors placed in the overlap of the membrane.

Composition from the top layer – specimen 3:

*Waterproof membrane FATRAFOL 810/V of 2.0 mm in thickness*

Thermal insulation – PIR-boards, thickness of 200 mm

Vapour barrier – PE-foil, thickness of 0.20 mm

Chipboard panel baseboard

Anchorage of waterproof membrane FATRAFOL 810/V (thickness of 2,0 mm), of thermal insulation represented by PIR-boards (thickness of 200 mm) and of vapour barrier of PE-foil (thickness of 0.20 mm) into the chipboard panel baseboard was carried out mechanically using anchors placed in the overlap of the membrane.

The tests were performed on the chipboard panel baseboard constructed as per art. 6.5.4.3 b) - the results apply for all wooden sheet boards of a minimum thickness of 12 mm, for all boards made of wooden planks with straight edges and for all non-flammable boards with gaps of 5 mm maximum.

The tested roof angle of 5° is in practice specified by the art. 6.5.4.4.1 for the roof angle up to 10°.

## 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	Fatra, a.s. tř. Tomáše Bati 1541 763 61 Napajedla	Pr-11-2.041 2011-04-03	ČSN P ENV 1187 – test method 3

### 3.2. Test results of roofs exposed to external fire

Roof angle: 5°

Baseboard: chipboard panel board 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)
External fire spread time $T_E$	$\geq 30 \text{ min}$	$\geq 10 \text{ min}$		30 min	30 min	yes	-	-
Time until the fire penetration $T_p$	$\geq 30 \text{ min}$	$\geq 15 \text{ min}$	$> 5 \text{ min}$	-	-	yes	-	-

## 4. CLASSIFICATION AND THE FIELD OF DIRECT APPLICATION

### 4.1. Reference

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

### 4.2. Classification

The product - *FATRAFOL 810/V of 1.2 mm up to 2.0 mm in thickness* – has been classified based on its behaviour under the tests of roofs exposed to external fire into the following class:

**B<sub>ROOF</sub> (t3)**

### 4.3. Field of application

This classification is valid for the following end use applications:

*Waterproof membrane FATRAFOL 810/V of 1.2 mm up to 2.0 mm in thickness* is used as an anchored membrane for waterproofing roof systems with a roof angle up to 10°. The thermal insulation represented by PIR-board may be used in thickness of 60 mm up to 200 mm. It is valid for all wooden sheet baseboards with the minimal thickness of 12 mm, for all boards made of wooden planks with straight edges as well as for all non-flammable boards with gaps of 5 mm maximum.

## 5. LIMITATION

This classification report does not substitute a type approval or product certificate.

This classification is valid unless the conditions, under which it was issued, have been changed.

The sponsor may ask the issuing organization to review the influence of changes on the validity of this Classification.

Elaborated by:

Checked by:

Approved by:



Jiří Příbyl

Fire testing laboratory

**PAVUS, a. s.**

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