



**PAVUS, a.s.**

AUTHORIZED BODY 216  
NOTIFIED BODY 1391  
ACCREDITED CERTIFICATION BODY FOR  
PRODUCTS N° 3041

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## CLASSIFICATION REPORT ON THE EXTERNAL FIRE EXPOSURE OF ROOFS

The object of  
classification :

*Roofs and roof coverings*

*in accordance with ČSN EN 13501-5+A1:2010, clause 8.1 and 9*

Issue number:

**PK5-01-11-003-A-0**

Product name and type:

*Waterproof membrane FATRAFOL 810/V,  
thickness of 1.2 mm to 1.5 mm*

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 products N° 3041  
- Accreditation issued by Czech Accreditation Institute, Public  
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## 1. INTRODUCTION

- 1.1. This Classification Report specifies the classification method for the product conformity with the procedures set forth in ČSN EN 13501-5+A1.
- 1.2. This Classification Report has 4 pages and it can be used or reproduced as a whole only.

## 2. DETAILS OF CLASSIFIED PRODUCT

### 2.1. General

*Waterproof membrane FATRAFOL 810/V, thickness of 1.2 mm to 1.5 mm* is the PVC-P roof waterproof membrane made by rolling and lamination, reinforced with a polyester grid.

### 2.2. Detail roof description

Composition from the upside – specimen 1 to 4

*Waterproof membrane FATRAFOL 810/V, thickness of 1.5 mm*  
thermal insulation – mineral fibre boards ISOVER, thickness of 60 mm  
vapor barrier - FATRAPAR foil, thickness of 0.20 mm  
underlying chipboard panel

Composition from the upside - specimen 5 and 6

*Waterproof membrane FATRAFOL 810/V, thickness of 1.2 mm*  
thermal insulation – mineral fibre boards ISOVER, thickness of 60 mm  
vapor barrier - FATRAPAR foil, thickness of 0.20 mm  
underlying chipboard panel

Anchorage of *waterproof membrane FATRAFOL 810/V (thickness of 1.2 mm to 1.5 mm)*, thermal insulation – mineral fibre boards ISOVER (*thickness of 60 mm*) and vapor barrier FATRAPAR (*thickness of 0.2 mm*) into the underlying chipboard panel was carried out mechanically using the anchors placed in the overlap of the foil.

The tests were performed on the underlying boards from chipboards made according to clause 6.5.2.3 b) – it is valid for all wood coherent boards, all boards from wood decks with straight edges and for all non-flammable coherent boards with cracks maximum 5 mm.

The roof pitch, tested at 15°, is determined in practice according to clause 6.5.2.5.1 for a roof pitch to 20°.

## 3. TESTS REPORTS / EXTENDED APPLICATION REPORTS AND TEST RESULTS IN SUPPORT OF CLASSIFICATION

### 3.1. Test report

Name of the Laboratory Address Accreditation number:	Name of sponsor of the Test Report	Report number	Test method
PAVUS, a. s. Veselí nad Lužnicí AZL č. 1026	Fatra, a.s. tř. Tomáše Bati 1541 736 61 Napajedla	Pr-11-2.045 2011-04-15	ČSN P ENV 1187 – Test method 1

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

Pitch: 15°

Substrate: underlying chipboard panel and composition according to 2.2.

Parameter	Criteria	Test results of the specimen						Conformity
		Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5	Specimen 6	
Propagation of fire in inner plane upwards	< 0,700 m	0,110	0,160	0,340	0,100	0,110	0,110	YES
Propagation of fire in outer plane upwards	< 0,700 m	0,130	0,180	0,410	0,130	0,130	0,120	YES
Propagation of fire in inner plane downwards	< 0,600 m	-	0,030	-	-	-	-	YES
Propagation of fire in outer plane downwards	< 0,600 m	-	0,050	-	-	-	-	YES
maximum length of inner burn-away	< 0,800 m	0,110	0,190	0,340	0,100	0,110	0,110	YES
maximum length of outer burn-away	< 0,800 m	0,130	0,230	0,410	0,130	0,130	0,120	YES
burning drops/particles falling off the heated side	none	none	none	none	none	none	none	YES
burning drops/particles penetrating through the roof	none	none	none	none	none	none	none	YES
monolithic burnt-through hole	< 25 mm <sup>2</sup>	-	-	-	-	-	-	YES
total of all the burnt-through holes	< 4500 mm <sup>2</sup>	-	-	-	-	-	-	YES
total of all the burnt-through holes	< edges *	-	-	-	-	-	-	YES
inner glowing	none	-	-	-	-	-	-	YES
fire propagation radius(horizontal roof)	< 0,200 m	-	-	-	-	-	-	YES

\* edges of the measuring zone



## 4. CLASSIFICATION AND FIELD OF APPLICATION

### 4.1. Reference of classification

This classification has been carried out in accordance with clause 8.1 and 9, ČSN EN 13501-5 + A1.

### 4.2. Classification

The product – *Waterproof membrane FATRAFOL 810/V, thickness of 1.2 mm to 1.5 mm* - is, in conformity with its behaviour under the tests of the roofs exposed to the impingement of external fire, classified into the class below:

**B<sub>ROOF</sub> (t1)**

### 4.3. Field of application

This classification applies for the following end-use applications:

*Waterproof membrane FATRAFOL 810/V, thickness of 1.2 mm to 1.5 mm* is intended for coating of the flat roofing, anchored mechanically to the substrate in the roof pitch to 20°. It is valid for all underlying wood coherent boards, all boards from wood decks with straight edges and for all non-flammable coherent boards with cracks maximum of 5 mm.

## 5. LIMITATIONS

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

This classification is valid, if it does not occur to the changes of conditions, under which was issued.

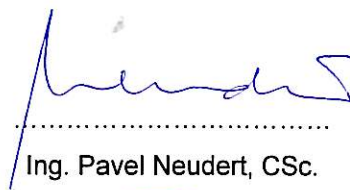
The customer may request the issuing authority to review the influence of changes to the classification availability.

Elaborated by:



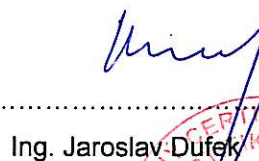
Jiří Příbyl  
Fire testing laboratory

Checked by:



Ing. Pavel Neudert, CSc.

Approved by:



Ing. Jaroslav Dufek

**PAVUS, a. s.**

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