



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 roofs covering
in accordance with ČSN EN 13501-5+A1:2010, clause 8.1

Issue number:

PK5-01-11-008-A-0

Product name and type:

Waterproof membrane EKOFOL 819N

Sponsor:

Fatra, a.s.
tř. Tomáše Bati 1541
736 61 Napajedla

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 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 *EKOFOL 819/V* (thickness of 1.5 mm) is the PVC-P roof membrane reinforced with PE grid. Membrane is made by multiple extrusion.

2.2. Detail roof description

Composition from the upside:

Waterproof membrane EKOFOL 819/V, thickness of 1.5 mm

heat insulation – mineral fibre boards ISOVER S, thickness of 60 mm

vapour barrier foil FATRAPAR, thickness of 0.2 mm

underlying chipboard panel

Anchorage of *waterproof membrane EKOFOL 819/V* (thickness of 1.5 mm), heat insulation - mineral fibre boards ISOVER S (thickness of 60 mm) and vapour barrier foil 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 joints maximum of 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-11-2.102 2011-09-05	ČSN P ENV 1187 – Test method 1

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

Parameter	Criteria	Test results of the specimen				
		Specimen 1	Specimen 2	Specimen 3	Specimen 4	Conformity
Propagation of fire in inner plane upwards	< 0.700 m	0.400	0.330	0.310	0.360	YES
Propagation of fire in outer plane upwards	< 0.700 m	0.430	0.360	0.350	0.410	YES
Propagation of fire in inner plane downwards	< 0.600 m	0.090	0.140	0.080	0.040	YES
Propagation of fire in outer plane downwards	< 0.600 m	0.110	0.170	0.110	0.070	YES
maximum length of inner burn-away	< 0.800 m	0.490	0.470	0.390	0.400	YES
maximum length of outer burn-away	< 0.800 m	0.540	0.530	0.460	0.480	YES
burning drops/particles falling off the heated side	none	none	none	none	none	YES
burning drops/particles penetrating through the roof	none	none	none	none	none	YES
monolithic burnt-through hole	< 25 mm ²	-	-	-	-	YES
total of all the burnt-through holes	< 4,500 mm ²	-	-	-	-	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, ČSN EN 13501-5 + A1.

4.2. Classification

The product – *waterproof membrane EKOFOL 819/V (thickness of 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_{ROOF} (t1)

4.3. Field of application

This classification applies for the following end-use applications:

The product *waterproof membrane EKOFOL 819/V (thickness of 1.5 mm)* is intended for carrying out of one-layer roof coverings of flat roofs, which are anchored to a substrate mechanically, without loading layer.

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.

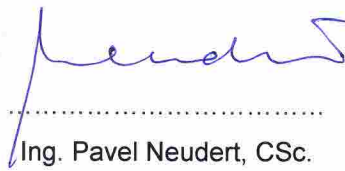
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