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CLASSIFICATION REPORT

FOLLOWING prEN 13501-5

1. BASIC DATA

Subject of classification: **Characteristics of roof exposed to external fire**

Element name and type: Hydro-insulating foil FATRAFOL P 918, 1,5 mm thick

Identification number:

PK5-01-05-010-A-0

Date of issue: 2005-08-30

Test report owner: ALIACHEM Inc.
Branch FATRA
Tomáš Baťa Blvd.

Issuing organization: PAVUS, Inc.
Authorized Body AO 216
Prosecká 412/74
190 00 PRAHA 9
Fire testing laboratory Veselí nad Lužnicí

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2. INTRODUCTION

- 2.1. This classification report determines the classification of particular element in accordance with methods given in ČSN EN 13501-5.
- 2.2. This classification report has 5 pages and shall be only used as a whole.

3. DETAILED INFORMATION ON CLASSIFIED ELEMENT

3.1. Detailed roof description

Composition from the upper layer:

- Hydro-insulating foil FATRAFOL P 918, 1,5 mm thick
- Mineral fibre insulation ROCKWOOL Dachrock, 60 mm thick
- Vapour-proof foil FATRAPAR, 0,15 mm thick
- Backing slab from chipboard panels

Hydro-insulating foil FATRAFOL P 918, 1,5 mm thick, mineral fibre insulation ROCKWOOL Dachrock, 60 mm thick and vapour-proof foil FATRAPAR, 0,15 mm thick were anchored to the backing slab through wood screws and oval washers.

The tests have been performed on backing slabs made according to ČSN P ENV 1187, test method No. 1, clause 4.4.2.2.b) - valid for all continuous timber slabs, for all slabs from timber boards with even edges and for all non combustible slab with maximum 5 mm gaps.

Roof pitch tested at 15° is in praxis determined according to ČSN P ENV 1187, testing method 1, clause 4.10.1, for roof pitch up to 20°.

3.2. Description

FATRAFOL P 918, 1,5 mm thick, is a roof hydro-insulating foil based on thermoplastic poly-olefins, with in-built glass fleece. FATRAFOL P 918 foil is designed primarily for single-layer coatings of flat roofs, mechanically anchored to backing.

4. FIRE TEST REPORT AND TEST RESULTS USED FOR THIS CLASSIFICATION

4.1. Test report

Laboratory name Address Accreditation No.	Test report Customer	Test report No.	Test method
PAVUS, a. s. Veselí nad Lužnicí AZL č. 1026.1	ALIACHEM Inc. Branch FATRTA Tomáš Baťa Blvd. 763 61 Napajedla.	Pr-05-1.02.150	ČSN P ENV 1187 - Testing method 1

4.2. Test results of roofs, exposed to external fire

Parameter	Criteria	Test results				Consist.
		Specimen 1	Specimen 2	Specimen 3	Specimen 4	
Fire spread in internal plane, up direction	< 0,700 m	0,210	0,140	0,120	0,140	YES
Fire spread in external plane, up direction	< 0,700 m	0,210	0,170	0,230	0,210	YES
Fire spread in internal plane, down direction	< 0,600 m	0,160	0,140	0,120	0,140	YES
Fire spread in external plane, down direction	< 0,600 m	0,160	0,170	0,230	0,210	YES
Maximum length of internal burning	< 0,800 m	0,670	0,610	0,600	0,650	YES
Maximum length of external burning	< 0,800 m	0,670	0,610	0,660	0,650	YES
Flaming drops/particles dripping form exposed side	None	None	None	None	None	YES
Flaming drops/particles penetrating roof	None	None	None	None	None	YES
Single burned-through hole	< 25 mm ²	0	0	0	0	YES
Summary of all burned-through holes	< 4500 mm ²	0	0	0	0	YES
Lateral fire spread	< Edges *	0	0	0	0	YES
Internal glowing	None	0	0	0	0	YES
Fire spread radius (horizontal roof)	< 0,200 m	0	0	0	0	YES

* measuring area edges

