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CLASSIFICATION REPORT

UNDER CSN EN 13501-5

1. BASIC DATA

The object of classification:	**Behaviour of roofs under external fire**
Name and type of element:	Hydro-insulating foil FATRAFOL 810
Identification number:	**PK5-01-07-033-A-0**
Date of issue:	2007-10-03
The Report owner:	FATRA, a.s. Tr. Tomase Bati 1541, 763 61 Napajedla
Issuing organization:	PAVUS, a. s. Authorized Body AO 216 Prosecka 412/74 190 00 PRAGUE 9 Testing Laboratory Veseli Nad Lužnici
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2. INTRODUCTION

2.1. This Classification Report specifies the classification method for a concerned element in conformity with the procedures set forth in CSN EN 13501-5.

2.2. This Classification Report has 4 pages and it can be used as a whole only.

3. DETAILED INFORMATION ON THE ELEMENT TO BE CLASSIFIED

3.1. Detailed description of the roof

Composition from the top layer:

Hydro-insulating foil FATRAFOL 810, thick 1,5 mm

thermal insulation of mineral fibres, thick 60 mm

steam-proof foil FATRAPAR E, thick 0,15 mm

baseboard of chipboard panels

The tests were conducted on the baseboards made under CSN P ENV 1187, test method 3, cl. 4.4.2.2 b) - valid for all the wooden connected boards, all the boards of wooden planks with straight edges, and all the incombustible boards with gaps of max. 5 mm.

The FATRAFOL 810 hydro-insulating foil (thick 1,5 mm), thermal insulation of mineral fibres (thick 60 mm) and FATRAPAR E steam-proof foil (thick 4,0 mm) were anchored to the baseboards of wood chipboards using the bolts and oval washers.

Roof gradient tested at 5° is determined in practice in conformity with CSN P ENV 1187, test method 3, cl. 6.3. for the roof gradient up to 10°.

3.2 Description

The FATRAFOL 810 hydro-insulating roofing (tl. 1.5 mm) is a PVC-P based roof sheeting reinforced with polyester grid, it resists to UV radiation and can be exposed to the direct climatic influences. The hydro-insulating foil FATRAFOL 810 (thick 1.5 mm) is made by way of rolling and lamination. The hydro-insulating foil FATRAFOL 810 (thick 1.5 mm) is applied in anchored state for the hydro-insulating systems of roofs.

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

4.1. The Test Report

Name of the Laboratory Address Accreditation number:	Sponsor of the Test Report	Report number	Testing Procedure
PAVUS, a. s. Veseli nad Lužnici Accr.T.Lab. No. 1026	FATRA, a.s. Tr. Tomase Bati 1541, 736 61 Napajedla	Pr-07-2.137	CSN P ENV 1187- Test Method 3

4.2. Test results of the roofs exposed to external fire

Parameter	Criteria			Test results		Conformity		
	Class BROOF (t3)	Class CROOF (t3)	Class DROOF (t3)	Specimen 1	Specimen 2	Class B	Class C	Class D
Fire external propagation's critical time T_E	> 30 min	> 10 min	< 10 min	30 min	30 min	yes	-	-
Critical time till burn-through Tp	> 30 min	> 15 min	> 5 min	-	-	yes	-	-

5. CLASSIFICATION AND DIRECT APPLICATION FIELD

5.1 Reference and field of direct application

This classification was carried out in conformity with clause 9, CSN EN 13501 - 5

5.2 Classification

Hydro-insulating foil FATRAFOL 810, thick 1.5 mm in the tested composition was classified into the following class:

B_{ROOF} (t3)

5.3 Application Field

This classification is valid for the following practical application:

Hydro-insulating foil FATRAFOL 810, thick 1.5 mm is intended for the roofs in a fire hazard area, being used in mechanically anchored condition for the hydro-insulating systems of the roofs at a gradient of up to 10°. This applies to all the wooden connected boards, all the boards of wooden planks with straight edges, and all the incombustible boards with gaps of max. 5 mm.

6. PROVISIONS OF UTILIZATION

6.1 Restrictions

The time limitation of this Classification Report's validity is 5 years since the issuance date of this Report.

6.2 Caution

This Classification Report does substitute neither the type approval nor the product certificate.

Elaborated by:

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