

This classification report replaces the classification report EUFI29-23000306-T14 dated 8 May 2023 and classification report EUFI29-23000306-T16 dated 10 May 2023. Reports are combined as one report.

**EXTERNAL EXPOSURE TO FIRE CLASSIFICATION REPORT
OF ROOF COVERING**

Sponsor: **Bestor Group AS**
Valdeku 168
EE-11217 Tallinn

Prepared by: **Eurofins Expert Services Oy**
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Notified Body No: 0809

Products: **FATRAFOL 810/V (1,2 mm and 2,0 mm)**

Classification report No: EUFI29-23000306-T21

Date of issue: 21 March 2024

1 Introduction

This classification report defines the classification assigned to the roof covering products **FATRAFOL 810/V (1,2 mm and 2,0 mm)** in accordance with the procedures given in EN 13501-5:2016.

2 Description of the roof covering and substrate

The product **FATRAFOL 810/V (1,2 mm and 2,0 mm)** are described below.

Top layer

- Product name: FATRAFOL 810/V (2,0 mm)
- Product description: roofing membrane on the basis of PVC-P reinforced with a polyester grid
- Nominal mass per unit area: 2390 g/m²
- Thickness: 2,0 mm
- Manufacturer: Fatra, a.s., třída Tomáše Bati 1541, 763 61 Napajedla, Česká republika

Glass fleece

- Product name: microlith® - glass fiber mat
- Nominal mass per unit area: 120 g/m²
- Manufacturer: Alpax s.r.o. , Terronská 19/580 ,160 00 Praha 6, Česká republika

Mineral wool insulation board

- Product name: PAROC ROS 50
- Thickness: 50 mm
- Manufacturer: Paroc Group, Energiakuja 3, FI-00180 Helsinki, Finland

Polyethylene foil (PE foil), vapour control barrier

- Product name: fatrapar 200
- Nominal thickness: 0,2 mm
- Manufacturer: PYTLÍK, a.s., IČ: 26459990, Bečovská1326/9, 104 00 Praha 10 – Uhřetěves, Česká republika

The product **FATRAFOL 810/V (1,2 mm)** are described below.

Top layer

- Product name: FATRAFOL 810/V (1,2 mm)
- Product description: roofing membrane on the basis of PVC-P reinforced with a polyester grid
- Nominal mass per unit area: 1430 g/m²
- Thickness: 1,2 mm
- Manufacturer: Fatra, a.s., třída Tomáše Bati 1541, 763 61 Napajedla, Česká republika

Glass fleece

- Product name: microlith® - glass fiber mat
- Nominal mass per unit area: 120 g/m²
- Manufacturer: Alpax s.r.o. , Terronská 19/580 ,160 00 Praha 6, Česká republika

Mineral wool insulation board

- Product name: PAROC ROS 50
- Thickness: 50 mm
- Manufacturer: Paroc Group, Energiakuja 3, FI-00180 Helsinki, Finland

Polyethylene foil (PE foil), vapour control barrier

- Product name: fatrapar 200
- Nominal thickness: 0,2 mm
- Manufacturer: PYTLÍK, a.s., IČ: 26459990, Bečovská1326/9, 104 00 Praha 10 – Uhřetěves, Česká republika

3 Test reports and test results in support of classification

3.1 Test report

Name of laboratory	Name of sponsor	Test report	Test method and date
Eurofins Expert Services Oy	Bestor Group AS	EUFI29-23000306-T13	CEN TS 1187 Test 2 8 May 2023
Eurofins Expert Services Oy	Bestor Group AS	EUFI29-23000306-T15	CEN TS 1187 Test 2 10 May 2023

3.2 Test 2

Test pitch: 30°

Roof covering: **FATRAFOL 810/V (2,0 mm)**

Substrate: Wood particle board, OSB 3 density 581 kg/m³, thickness 18 mm

(Manufacturer: KRONOSPAN OSB, spol.s r. o. Na Hranici 6, CZ -587 04 Jihlava, Czech Republic)

Parameter	Criteria							Compliance
	Mean	Max	Spec. 1	Spec. 2	Spec. 3	Mean	Max	
Damaged length at 2 m/s wind speed – roof covering	≤ 550	≤ 800	400	351	360	370	400	Yes
Damaged length at 2 m/s wind speed – substrate	≤ 550	≤ 800	0	0	0	0	0	Yes
Damaged length at 4 m/s wind speed – roof covering	≤ 550	≤ 800	416	444	357	406	4444	Yes
Damaged length at 4 m/s wind speed – substrate	≤ 550	≤ 800	0	0	0	0	0	Yes

Roof covering: **FATRAFOL 810/V (1,2 mm)**

Substrate: Wood particle board, OSB 3 density 581 kg/m³, thickness 18 mm

(Manufacturer: KRONOSPAN OSB, spol.s r. o. Na Hranici 6, CZ -587 04 Jihlava, Czech Republic)

Parameter	Criteria							Compliance
	Mean	Max	Spec. 1	Spec. 2	Spec. 3	Mean	Max	
Damaged length at 2 m/s wind speed – roof covering	≤ 550	≤ 800	436	397	452	428	452	Yes
Damaged length at 2 m/s wind speed – substrate	≤ 550	≤ 800	0	0	0	0	0	Yes
Damaged length at 4 m/s wind speed – roof covering	≤ 550	≤ 800						Yes
Damaged length at 4 m/s wind speed – substrate	≤ 550	≤ 800	0	0	0	0	0	Yes

Roof covering: **FATRAFOL 810/V (1,2 mm)**

Substrate: Standard wood particle board density 680 kg/m³

Parameter	Criteria							Compliance
	Mean	Max	Spec. 1	Spec. 2	Spec. 3	Mean	Max	
Damaged length at 2 m/s wind speed – roof covering	≤ 550	≤ 800	460	-	-	460	460	Yes
Damaged length at 2 m/s wind speed – substrate	≤ 550	≤ 800	0	-	-	0	0	Yes
Damaged length at 4 m/s wind speed – roof covering	≤ 550	≤ 800	466	-	-	466	466	Yes
Damaged length at 4 m/s wind speed – substrate	≤ 550	≤ 800	0	-	-	0	0	Yes

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-5:2016.

4.2 Classification

The roof covering products **FATRAFOL 810/V 1,2mm....2,0 mm** in relation to its external fire performance is classified:

B_{ROOF} (t2)

4.3 Field of application

This classification is valid for the following conditions:

- Roofing membrane on the basis of PVC-P reinforced with a polyester grid manufactured by “Fatra, a.s., třída Tomáše Bati 1541, 763 61 Napajedla, Česká republika” with a trademarks of “FATRAFOL 810/V” which to be for internal and external use in roofs, walls and ceilings
- for the system which complies with definition in clause 2 and produced in the manufacturing plant defined in this report
- thicknesses 1,2 mm...2,0 mm
- for any roof angle
- any combustible and non-combustible substrates with thickness ≥ 18 mm and density 510 kg/m^3

5 Limitations

This classification report does not represent type approval or certification of the products.

Espoo, 21 March 2024

Taru Huokuniemi
Senior Expert

DISTRIBUTION

Customer

Electronically approved