



TL 5-1052-2022

Issue No.: 3

Uncontrolled printing

Effective from: 25.06.2023

## Waterproofing membrane FATRAFOL 818

### PRODUCT DESCRIPTION

**FATRAFOL 818** is a waterproofing roof membrane made on the basis of plasticised polyvinyl chloride (PVC) reinforced with glass fibre fleece. The membrane is stabilised against UV radiation.

### TECHNICAL PARAMETERS

Parameter	Standard	Value for assigned thickness		
		1.50 mm	1.80 mm	2.00 mm
Visible defects	EN 1850-2	pass		
Streightness	EN 1848-2	≤ 30 mm		
Flatness	EN 1848-2	≤ 10 mm		
Mass per unit area	EN 1849-2	1.80 kg/m <sup>2</sup>	2.15 kg/m <sup>2</sup>	2.39 kg/m <sup>2</sup>
Water tightness, 400 kPa	EN 1928 method B	pass		
Reaction to fire	EN 13501-1	class E		
Joint peel resistance	EN 12316-2	≥ 250 N/50 mm		
Joint shear resistance	EN 12317-2	≥ 650 N/50 mm	≥ 800 N/50 mm	≥ 800 N/50 mm
Tensile strength	EN 12311-2 method B	≥ 11 N/mm <sup>2</sup>		
Elongation at break		≥ 200 %		
Impact resistance	EN 12691 method A	≥ 1250 mm	≥ 1250 mm	≥ 1500 mm
	EN 12691 method B	≥ 2000 mm		
Resistance to static load	EN 12730 method B	≥ 20 kg		
Tear resistance	EN 12310-2	≥ 110 N	≥ 140 N	≥ 150 N
Rezistance to root penetration	EN 13948 FLL test	pass		
Dimensional stability	EN 1107-2	max. ± 0,1 %		
Foldability at low temperature	EN 495-5	≤ -30 °C		
Exposure to UV radiation, elevated temperature and water (5000 h)	EN 1297	pass, grade 0		
Water vapour properties - moisture resistance factor μ	EN 1931	18000 ± 30 %		

Mass per unit area tolerance: -5 % / +10 %

## APPROVALS / CERTIFICATES

- Declaration of performance and CE marking according to harmonised EN 13956
- Environmental product declaration (EPD) according to ISO 14025

## DIMENSIONS

Thickness [mm] (EN 1849-2)	Width [mm] (EN 1848-2)	Length [m] (EN 1848-2)	Quantity on the roll [m <sup>2</sup> <sup>*)</sup>
1.50	2050	20.0	41.000
1.80	2050	16.5	33.825
2.00	2050	15.0	30.750

*The membrane can be produced in other dimensions upon agreement.*

*Thickness tolerance: -5 % / +10 %, width tolerance: -0.5 % / +1 %, length tolerance: -0 % / +5 %*

*\*)  
informative value*

## COLOUR AND APPEARANCE

The colour of the top layer is light grey ~ RAL 7035. The colour of the bottom layer is grey.

The colour shade of various production batches of the membranes may differ. Minor colour differences are not considered justified grounds for a claim.

FATRAFOL 818 has the top layer with a slightly textured, matt to semi-gloss surface.

## USAGE

FATRAFOL 818 is intended as a single-ply covering for flat roofs:

- with ballast
- with an operation layer – pavers on support pads, vehicular operation surface or vegetation layers

FATRAFOL 818 is unsuitable for mechanically fastened roof coverings without ballast or operation layer.

To insulate drainages and other complex details that may appear on the roof deck, FATRAFOL 804 detailing membrane should preferably be used.

For easier insulation of vertical surfaces (parapets) it is recommended to use the FATRAFOL 810 (810/V) membrane, however, the use of FATRAFOL 818 membrane is not excluded.

## APPLICATION

FATRAFOL 818 can be laid on roofs only by specialised firms whose workers have been trained properly.

FATRAFOL 818 is applied in compliance with the principles determined and described in the Construction and Technological Instruction FATRAFOL-S (PN 5415/2011), as amended at the time of the membrane's application, which is available at [www.fatrafol.cz](http://www.fatrafol.cz).

## STORAGE

Store at temperatures between -5 °C and +30 °C. On the site, it is necessary to protect the membrane against pollution. It is recommended to protect the membrane against weather effects until it is applied on the roof.

## MORE INFORMATION

For more information, please see the manufacturer's website [www.fatrafol.cz](http://www.fatrafol.cz).

## LEGAL CLAUSE

The technical data contained herein is based on our current knowledge and experience and relate to the use of the products under normal conditions for application. The information that is included in the current Technical Data Sheet is determined by the method of use and is incomplete. Before using this product, the user is obliged to check whether the product is suitable for the intended use. In addition to that, all users should contact the dealer or manufacturer of this product to obtain additional technical information regarding its use in case they are of the opinion that the information available to them requires some explanation, for both the standard and specific use of this product. Please always make sure that you have the latest version of the product's Technical Data Sheet at your disposal. This Data Sheet and additional information can be obtained from the sales or technical representative of the manufacturer or on the manufacturer's website.

## PRODUCER

Fatra, a. s., třída Tomáše Bati 1541, 763 61 Napajedla, Czech Republic  
tel.: +420 577 50 3325 (1111)  
e-mail: [studio@fatrafol.cz](mailto:studio@fatrafol.cz)  
<http://www.fatrafol.cz>

