

# Waterproofing membrane FATRAFOL 814

TL 5-1010-06

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## Product description

FATRAFOL 814 is a roofing membrane on PVC-P basis with inbuilt glass fleece. The upside is furnished with a special anti-slip embossing.

It is resistant to UV-radiation and can be exposed to the direct weathering influences.

## Usage

FATRAFOL 814 is identified for waterproofing of terraces of dwelling houses and balconies as treat-type- layer. The membrane is suitable for the creation of pavements on flat roofs waterproofed with FATRAFOL membranes.

The membrane meets the Standard ČSN 74 4507 being according to the Regulation of Ministry of Local Development No. 137 of June, 09. 1998

- requirement of factor value achievement of sliding friction under dry and wet conditions at minimum value of 0.6 at all roofing values of the entire complex and that is why it is suitable absolutely for pavement parts of constructions used by the public.

The membrane must not come to the contact with organic solvents of all type and other chemicals, too, where the material volatility is not provided; for example: with acetone, petrol, phenol, oils of all kinds, nitrocellulose lacquers, esters, ketones and aromatic hydrocarbons.

## Application

The laying of FATRAFOL 814 can be made by specialized and for this purpose trained firms at the constructions.

FATRAFOL 814 is applied generally on the level surfaces, only, being conformable with fundamentals set and described in a Construction and Technologic Instruction of the producer which is valid in the time of waterproofing providing. Underlay planeness and its downtaking should provide, that any local water slops will occur.

The membrane is laid mostly to joint and it is waterproof connected in the band edges by a hot air blowing on a tape of an aid tape piece of sheet being fixed to the stable part of underlay by means of special anchoring elements. The anchoring kind have to be designed for the concrete application in such a way so, that the membrane is secured to the dimensional changes and wind suction. The membrane ending on the wall or roof periphery is made by membrane welding on the profiles of plate being coated by plastics. The working of the broken details, passages, small pillars of the guard rails or stair-rails, etc. must be fixed with a detail homogeneous membrane - FATRAFOL 804. The membrane bands are welded with a hot air onto a finished waterproof coating roofing made of FATRAFOL membrane due to sheet application as the pavements.

FATRAFOL 814 can be connected mutual by welding of a hot air. The laying and jointing can be provided under the temperature till up to 0 °C.

## Product data

FATRAFOL 814 meets the requirements of the Standard EN 13956.

Dimensions:

Thickness [mm] (EN 1849-2)	Width [mm] (EN 1848-2)	Length* [m] (EN 1848-2)	Quantity [m <sup>2</sup> ]
2.50 (-0.12; +0.25)	1000 (-5; +10)	12 (-0; +0.6)	12

\*) 1.5 m of the membrane (1.5 m<sup>2</sup>) is added due to compensation for a defect winding beginning caused by pressure marks per each roll compared to nominal value. It is a winding of 13.5 m (13.5 m<sup>2</sup>) per roll in total.

Colour:

FATRAFOL 814 is produced in a basic colour of the upper layer of light grey - No. 2761, dark gray - No. 2003 and glaucous - No. 7060 and copper browns - No. 3503. The colour of a back sheet is black - No. 6001.

Packing, transport, storage:

FATRAFOL 814 is packed into the rolls, which are laid on the wood pallets and fixed by a packing film. FATRAFOL 814 must be transported in covered transporting means and stored in original closed packing. The recommended storage temperature is from -5 °C to +30 °C. There is necessary to protect the product from pollution at the building site. There is recommended to protect it from weathering influences till the processing time.

Technical parameters:

Characteristic	Test standard	Values
Visible defects	EN 1850-2	meets
Straightness	EN 1848-2	≤ 5 mm
Flatness	EN 1848-2	≤ 5 mm
Dimensional stability	EN 1107-2	max. ± 0.2 %
Tensile strength	EN 12311-2	≥ 8 MPa
Elongation at break	method B	≥ 150 %
Tear resistance	EN 12310-2	≥ 130 N
Foldability at low temperature	EN 495-5	≤ -35 °C
Joint peel resistance	EN 12316-2	≥ 250 N/50 mm
Joint shear resistance	EN 12317-2	≥ 650 N/50 mm
Water tightness, 10 kPa *)	EN 1928 method B	meets
Resistance to static load	EN 12730 method B	meets 20 kg
Reaction to fire	EN 13501-1	class E
Resistance to impact	EN 12691 method A	meets 1750 mm
	EN 12691 method B	meets 2000 mm
Exposure to UV radiation, elevated temperature and water	EN 1297	meets, grade 0
Water vapour properties - factor μ	EN 1931	10500 ± 2500
External fire performance **)	ENV 1187	B <sub>ROOF</sub> (t1)

\*) The samples pass also at the pressure of 60 kPa.

\*\*\*) The evaluated laminations are mentioned in their classification records.

**Safety instruction****Scrap disposal**

FATRAFOL 814 must be disposed conformable with valid legal regulations. The clear scrap can be recycled, scrap not suitable for recycling you can depony. Waste, polluted by dangerous substances, is necessary to dispose by burning in the incinerator of dangerous wastes.

**Safety at work and health protection**

There is necessary to keep all safety, hygienic and fire regulations valid in the time of laying and membrane joining.

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**Related documentation**

- Construction and technologic regulation of roofing waterproofing system FATRAFOL-S
- Manufacturing control system certificate No. 1390-CPD-0028/07/Z of waterproofing membranes FATRAFOL 804, FATRAFOL 807, FATRAFOL 808, FATRAFOL 814 according to Standard
- ČSN EN 13956:2006, emitted by CSI, a. s., Prague, workstation Zlín

**Producer**

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