

Waterproofing membrane FATRAFOL 803

TL 5-1004-06

6

16.10.2014

Product description

FATRAFOL 803 (803/V) is an unreinforced membrane on a base of plasticized polyvinylchloride (PVC-P), type T according to the Standard EN 13967.

FATRAFOL 803 is produced by calendering and lamination, FATRAFOL 803/V by a multi-extrusion processing. All the production variants are described by this Technical Data Sheet - further like FATRAFOL 803, only.

Usage

FATRAFOL 803 is identified first of all for the clamped waterproofing of ground and underground buildings to aggressive, pressure and sucking water and as a waterproofing layer of waterproofing systems to leakage of liquids and leaches into the ground waters. The membrane is suitable for insulation of excavated tunnels, ground tanks, reservoirs, agricultural buildings, water constructions and dispose of industrial products, which chemical influence respond to the membrane resistance warranted by the producer. The applied membrane fulfils also a function of anti-radon barrier within its waterproofed function.

The membrane is not identified for the direct contact with drinking water and for the applications due to long-life exposition to the atmospheric influences, mostly UV-radiation.

Application

FATRAFOL 803 is applied conformable with fundamentals set and described in the Construction and Technological Prescription of the Producer being valid in the time of waterproofing providing.

The membrane can be mutual joined by hot air welding. The laying and joining can be made under the temperature till up to -5 °C.

Product data

FATRAFOL 803 fulfils requirements of the Standard EN 13967.

Thickness [mm] (EN 1849-2)	Width [mm] (EN 1848-2)	Length[m] (EN 1848-2)	Quantity [m ²]
FATRAFOL 803			
0.60 ± 0.05	1300 ± 20	50 (-0; +2.5)	65
1.00 ± 0.10	1300 ± 20	30 (-0; +1.5)	39
1.50 ± 0.15	1300 ± 20	20 (-0; +1)	26
2.00 ± 0.20	1200 ± 20	15 (-0; +0.7)	18
FATRAFOL 803/V			
1.00 ± 0.10	2000 ± 20	25 (-0; +1.2)	50
1.00 ± 0.10	2000 ± 20	30 (-0; +1.5)	60
1.50 ± 0.15	2000 ± 20	15 (-0; +0.7)	30
1.50 ± 0.15	2000 ± 20	20 (-0; +1)	40
1.50 ± 0.15	2000 ± 20	25 (-0; +1.2)	50
2.00 ± 0.20	2000 ± 20	15 (-0; +0.7)	30
3.00 ± 0.30	2000 ± 20	10 (-0; +0.5)	20

Colour: FATRAFOL 803 is produced in a colour of milky transparent, brown RAL 8025 and yellow RAL 1012. The back layer of the yellow membrane is black.

FATRAFOL 803/V is produced in a colour of brown RAL 8025.

Packing, transport, storage: FATRAFOL 803 is packed into rolls, which are laid on wood pallets and fixed with a packing film. There is recommended to transport the membrane in covered transport means and storage in original closed packs. 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 of individual product thicknesses				
		0.60 mm	1.00 mm	1.50 mm	2.00 mm	3.00 mm
Visible defects	EN 1850-2	meets	meets	meets	meets	meets
Straightness	EN 1848-2	meets	meets	meets	meets	meets
Maximum tensile force	EN 12311-2 method A	≥ 420 N/50 mm	≥ 700 N/50 mm	≥ 1050 N/50 mm	≥ 1400 N/50 mm	≥ 1450 N/50 mm
Elongation at maximum tensile force		≥ 250 %	≥ 250 %	≥ 250 %	≥ 250 %	≥ 300 %
Joint strength	EN 12317-2	≥ 340 N/50 mm	≥ 560 N/50 mm	≥ 840 N/50 mm	≥ 1120 N/50 mm	≥ 1200 N/50 mm
Tear resistance	EN 12310-1	≥ 100 N	≥ 200 N	≥ 400 N	≥ 600 N	≥ 800 N
Water tightness to liquid water, 400 kPa	EN 1928 method B	meets	meets	meets	meets	meets
Resistance to static load	EN 12730 method B	meets 20 kg	meets 20 kg	meets 20 kg	meets 20 kg	meets 20 kg
Reaction to fire	EN 13501-1	Class E	Class E	Class E	Class E	Class E
Resistance to impact	EN 12691 method A	meets 600 mm	meets 900 mm	meets 1750 mm	meets 1750 mm	meets 1750 mm
	EN 12691 method B	meets 2000 mm	meets 2000 mm	meets 2000 mm	meets 2000 mm	meets 2000 mm
Durability of watertightness against artificial ageing, 60 kPa	EN 1296 EN 1928	meets	meets	meets	meets	meets
Durability of watertightness against chemicals, 60 kPa (Ca(OH) ₂ ; 10% NaCl)	EN 1847 EN 1928	meets	meets	meets	meets	meets
Water vapour transmission - factor μ	EN 1931	25000 ± 7000	25000 ± 7000	25000 ± 7000	25000 ± 7000	25000 ± 7000
Mass per unit area - informative value	EN 1849-2	0.76 kg.m ⁻²	1.31 kg.m ⁻²	1.97 kg.m ⁻²	2.62 kg.m ⁻²	3.93 kg.m ⁻²

Safety instruction

Waste disposition

FATRAFOL 803 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.

Related documentation

- Construction and technologic regulation of waterproofing system FATRAFOL-H
- Manufacturing control system certificate No. 1390-CPD-0022/06/Z of waterproofing membrane Stafol 914, Ekoplast 806, Aquaplast 805, Fatrafol 803 according to the Standard ČSN EN 13967:2005, emitted by CSI, a. s., Prague, workstation Zlín
- Manufacturing control system certificate No. 1390-CPD-0546/08/Z of waterproofing membrane Fatrafol 803/V according to the Standard ČSN EN 13967:2005, emitted by CSI, a. s., Prague, workstation Zlín

Producer

Fatra, j.c., třída T. Bati 1541, 763 61 Napajedla, Czech Republic

tel.: +420 577 50 3323 (1111)

fax: +420 577 50 2253 (3001)

e-mail: fatrafol@fatra.cz

<http://www.fatra.cz>