



Waterproofing membrane FATRAFOL 803

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Product description	<p>FATRAFOL 803 (803/V, 803/VS) is an unreinforced membrane on a base of plasticized polyvinylchloride (PVC-P), type T according to the Standard EN 13967.</p> <p>FATRAFOL 803 is produced by calendering and lamination, FATRAFOL 803/V (803/VS) by a multi-extrusion processing.</p> <p>All the production variants are described by this Technical Data Sheet - further like FATRAFOL 803, only.</p>
Usage	<p>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 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.</p> <p>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.</p>
Application	<p>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.</p> <p>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.</p>

Product data

FATRAFOL 803 fulfils requirements of the Standard EN 13967.

Dimensions:

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
1.00 ± 0.10	2000 ± 20	30 (-0; +1.5)	60
1.50 ± 0.15	1300 ± 20	20 (-0; +1)	26
2.00 ± 0.20	1200 ± 20	15 (-0; +0.7)	18
FATRAFOL 803/V			
0.60 ± 0.08	2000 ± 20	25 (-0; +1.2)	50
0.60 ± 0.08	2000 ± 20	30 (-0; +1.5)	60
0.80 ± 0.09	2000 ± 20	25 (-0; +1.2)	50
0.80 ± 0.09	2000 ± 20	30 (-0; +1.5)	60
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
FATRAFOL 803/VS			
1.50 ± 0.15	2000 ± 20	20 (-0; +1)	40
2.00 ± 0.20	2000 ± 20	15 (-0; +0.7)	30

Colour:

FATRAFOL 803 is produced in a colour of RAL 8025 and RAL 1012. The back layer of the yellow membrane is black.

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

FATRAFOL 803/VS is produced in a colour of yellow. The back layer is black.

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:

FATRAFOL 803					
Characteristic	Test standard	Value			
		0.60 mm	1.00 mm	1.50 mm	2.00 mm
Visible defects	EN 1850-2	pass	pass	pass	pass
Straightness	EN 1848-2	pass	pass	pass	pass
Tensile strength	EN 12311-2	$\geq 15 \text{ N/mm}^2$	$\geq 15 \text{ N/mm}^2$	$\geq 15 \text{ N/mm}^2$	$\geq 15 \text{ N/mm}^2$
Elongation at break	method B	$\geq 250 \%$	$\geq 250 \%$	$\geq 250 \%$	$\geq 250 \%$
Joint strength	EN 12317-2	$\geq 340 \text{ N/}$ 50 mm	$\geq 560 \text{ N/}$ 50 mm	$\geq 840 \text{ N/}$ 50 mm	$\geq 1120 \text{ N/}$ 50 mm
Tear resistance	EN 12310-1	$\geq 180 \text{ N}$	$\geq 200 \text{ N}$	$\geq 400 \text{ N}$	$\geq 600 \text{ N}$
Water tightness to liquid water, 400 kPa	EN 1928 method B	pass	pass	pass	pass
Resistance to static load	EN 12730 method B	pass 20 kg	pass 20 kg	pass 20 kg	pass 20 kg
Reaction to fire	EN 13501-1	Class E	Class E	Class E	Class E
Resistance to impact	EN 12691 method A	pass 600 mm	pass 900 mm	pass 1750 mm	pass 1750 mm
	EN 12691 method B	pass 2000 mm	pass 2000 mm	pass 2000 mm	pass 2000 mm
Durability of watertightness against artificial ageing, 60 kPa	EN 1296 EN 1928	pass	pass	pass	pass
Durability of watertightness against chemicals, 60 kPa (Ca(OH) ₂ ; 10% NaCl)	EN 1847 EN 1928	pass	pass	pass	pass
Water vapour transmission - factor μ	EN 1931	25000 $\pm 30 \%$	25000 $\pm 30 \%$	25000 $\pm 30 \%$	25000 $\pm 30 \%$
Mass per unit area - informative value	EN 1849-2	0.79 kg.m^{-2}	1.31 kg.m^{-2}	1.97 kg.m^{-2}	2.62 kg.m^{-2}

FATRAFOL 803/V							
Characteristic	Test standard	Value					
		0.60 mm	0.80 mm	1.00 mm	1.50 mm	2.00 mm	3.00 mm
Visible defects	EN 1850-2	pass	pass	pass	pass	pass	pass
Straightness	EN 1848-2	pass	pass	pass	pass	pass	pass
Tensile strength	EN 12311-2 method B	≥ 15 N/mm ²	≥ 15 N/mm ²	≥ 15 N/mm ²	≥ 15 N/mm ²	≥ 15 N/mm ²	≥ 15 N/mm ²
Elongation at break		≥ 250 %	≥ 250 %	≥ 250 %	≥ 250 %	≥ 250 %	≥ 270 %
Joint strength	EN 12317-2	≥ 340 N/50 mm	≥ 450 N/50 mm	≥ 560 N/50 mm	≥ 840 N/50 mm	≥ 1120 N/50 mm	≥ 1200 N/ 50 mm
Tear resistance	EN 12310-1	≥ 120 N	≥ 160 N	≥ 200 N	≥ 400 N	≥ 600 N	≥ 800 N
Water tightness to liquid water, 400 kPa	EN 1928 method B	pass	pass	pass	pass	pass	pass
Resistance to static load	EN 12730 method B	pass 20 kg	pass	pass 20 kg	pass 20 kg	pass 20 kg	pass 20 kg
Reaction to fire	EN 13501-1	Class E	Class E	Class E	Class E	Class E	Class E
Resistance to impact	EN 12691 method A	pass 540 mm	pass 720 mm	pass 900 mm	pass 1750 mm	pass 1750 mm	pass 1750 mm
	EN 12691 method B	pass 2000 mm	pass 2000 mm	pass 2000 mm	pass 2000 mm	pass 2000 mm	pass 2000 mm
Durability of watertightness against artificial ageing, 60 kPa	EN 1296 EN 1928	pass	pass	pass	pass	pass	pass
Durability of watertightness against chemicals, 60 kPa (Ca(OH) ₂ ; 10% NaCl)	EN 1847 EN 1928	pass	pass	pass	pass	pass	pass
Water vapour transmission - factor μ	EN 1931	25000 ± 30 %	25000 ± 30 %	25000 ± 30 %	25000 ± 30 %	25000 ± 30 %	25000 ± 30 %
Mass per unit area - informative value	EN 1849-2	0.79 kg.m ⁻²	1.05 kg.m ⁻²	1.31 kg.m ⁻²	1.97 kg.m ⁻²	2.62 kg.m ⁻²	3.93 kg.m ⁻²

FATRAFOL 803/VS			
Characteristic	Test standard	Value	
		1.50 mm	2.00 mm
Visible defects	EN 1850-2	pass	pass
Straightness	EN 1848-2	pass	pass
Tensile strength	EN 12311-2	$\geq 15 \text{ N/mm}^2$	$\geq 15 \text{ N/mm}^2$
Elongation at break	method B	$\geq 270 \%$	$\geq 270 \%$
Joint strength	EN 12317-2	$\geq 840 \text{ N/50 mm}$	$\geq 1120 \text{ N/50 mm}$
Tear resistance	EN 12310-1	$\geq 400 \text{ N}$	$\geq 500 \text{ N}$
Water tightness to liquid water, 400 kPa	EN 1928 method B	pass	pass
Resistance to static load	EN 12730 method B	pass 20 kg	pass 20 kg
Reaction to fire	EN 13501-1	Class E	Class E
Resistance to impact	EN 12691 method A	pass 1750 mm	pass 1750 mm
	EN 12691 method B	pass 2000 mm	pass 2000 mm
Durability of watertightness against artificial ageing, 60 kPa	EN 1296 EN 1928	pass	pass
Durability of watertightness against chemicals, 60 kPa (Ca(OH) ₂ ; 10% NaCl)	EN 1847 EN 1928	pass	pass
Water vapour transmission - factor μ	EN 1931	25000 $\pm 30 \%$	25000 $\pm 30 \%$
Mass per unit area - informative value	EN 1849-2	1.97 kg.m ⁻²	2.62 kg.m ⁻²

Safety instruction**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 (PN 5416/2011)
- Certificate of conformity of the factory production control according to EN 13967:2012 emitted by CSI, a. s., Notified Body 1390

Legal Clause

The technical data contained herein are based on our current knowledge and experience and relate to the use of products under normal application conditions. The information that is included in the current technical data sheet is provided according to a method of use and is incomplete. Before using this product, the user has to check whether the product is suitable for intended use. In addition to that, all the users should contact the dealer or manufacturer of this product to obtain further technical information regarding its use if they are of the opinion that the information available to them requires any explanation, for both the normal and specific use of this product. Please always check that you have the latest version of the product technical data sheet at your disposal. This data sheet and further information can be obtained from the sales or technical representative of the manufacturer or at the website www.fatrafol.cz.

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