



Waterproofing membrane FATRAFOL 810/V

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Product description	<p>FATRAFOL 810/V is a roofing membrane on the basis of PVC-P reinforced with a polyester grid. It is resistant to UV-radiation and can be exposed to the direct weathering influences. The membrane is not compatible with bitumen.</p> <p>FATRAFOL 810/V by a multi-extrusion processing.</p>
Usage	<p>FATRAFOL 810/V is intended for:</p> <ul style="list-style-type: none">• mechanically fastened roofs (membrane)<ul style="list-style-type: none">- with spot or linear fastening- using fastened fixing discs adhered to membrane• ballasted flat roofs, when ballast is placed later in time• pitched ballasted roofs• other ballasted roofs, where due to small size, logistics or other reasons the use of FATRAFOL 810/V is more advantageous than that of FATRAFOL 818/V-UV
Application	<p>The laying of FATRAFOL 810/V can be made by specialized and for this purpose trained firms at the constructions.</p> <p>FATRAFOL 810/V is applied conformable with fundamentals being set and described in a Construction and Technologic Instruction of the producer, being valid in the time of waterproofing providing. The membrane must be fixed to a stable part of a roofing coating by suitable way and it is by means of special anchoring elements. The kind of anchoring must be proposed for the particular applications so for being the membrane secured from the dimensional changes and wind suction.</p> <p>The membrane can be mutual jointed by welding of hot air or heat key (one-trace weld). The laying and jointing can be made under the temperature till up to -5 °C.</p>
Product data	<p>FATRAFOL 810/V fulfils requirements of the Standard EN 13956.</p> <p>FATRAFOL 810/V is as a part of roof waterproofing system FATRAFOL-S certified according to European Technical Approval ETA-12/0013 (Systems of mechanically fastened flexible roof waterproofing membranes FATRAFOL-S), emitted in accordance</p>

with ETAG 006.

Dimensions:

Thickness [mm] (EN 1849-2)	Width [mm] (EN 1848-2)	Length [m] *) (EN 1848-2)	Quantity [m ²]	Weight of the roll [kg]**)
1.20 (-0.06; +0.12)	2000 (-10; +20)	25 (-0; +1)	50	78
	2000 (-10; +20)	20 (-0; +1)	40	61
	1000 (-5; +10)	25 (-0; +1)	25	39
	2050 (-10; +20)	25 (-0; +1)	51.25	75
	1025 (-5; +10)	25 (-0; +1)	25.625	37
	1600 (-10; +20)	25 (-0; +1)	40	61
	1600 (-10; +20)	20 (-0; +1)	32	49
1.50 (-0.07; +0.15)	2000 (-10; +20)	20 (-0; +1)	40	78
	1000 (-5; +10)	20 (-0; +1)	20	39
	2050 (-10; +20)	20 (-0; +1)	41	75
	1025 (-5; +10)	20 (-0; +1)	20.5	38
	1600 (-10; +20)	20 (-0; +1)	32	61
	1600 (-10; +20)	15 (-0; +0.7)	24	46
	1300 (-10; +20)	20 (-0; +1)	26	47
750 (-10; +20)	20 (-0; +1)	15	27	
1.80 (-0.09; +0.18)	2000 (-10; +20)	16.5 (-0; +0.8)	33	77
	1000 (-5; +10)	16.5 (-0; +0.8)	16.5	39
	2050 (-10; +20)	16.5 (-0; +0.8)	33.825	78
	1025 (-5; +10)	16.5 (-0; +0.8)	16.9	37
	1600 (-10; +20)	16.5 (-0; +0.8)	26.4	61
2.00 (-0.10; +0.20)	2000 (-10; +20)	15 (-0; +0.7)	30	78
	1000 (-5; +10)	15 (-0; +0.7)	15	39
	2050 (-10; +20)	15 (-0; +0.7)	15	74
	1025 (-5; +10)	15 (-0; +0.7)	15	37
	1600 (-10; +20)	15 (-0; +0.7)	24	61
2.40 (-0.12. +0.24)	2000 (-10; +20)	13 (-0; +0.65)	26	81
	1600 (-10; +20)	13 (-0; +0.65)	20.8	64
*) The membrane can be provided also in another winding lengths (deviation from the nominal length is of - 0 %; + 5 %) after agreement between producer and customer.				
**) Informative value				

Colour:

FATRAFOL 810/V is produced in a basic colour of the top layer of light grey RAL 7040 and dark grey RAL 7012. It can be produced in other colours after agreement between producer and customer.

The colour of a back layer is grey.

Performance:

FATRAFOL 810/V basic constructions have reinforcement fabric finely designed top smooth matte surface layers.

Packing, transport, storage:

FATRAFOL 810/V is packed into the rolls, which are laid on the wood pallets and fixed by a packing film. FATRAFOL 810/V 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 of individual product Thicknesses				
		1.20 mm	1.50 mm	1.80 mm	2.00 mm	2.40 mm
Visible defects	EN 1850-2	meets				
Straightness	EN 1848-2	≤ 50 mm				
Flatness	EN 1848-2	≤ 10 mm				
Dimensional stability	EN 1107-2	max. ± 0,3 %				
Maximum tensile force	MD	≥ 1000 N/50 mm			≥ 1100 N/50 mm	
	CD	≥ 1000 N/50 mm			≥ 1100 N/50 mm	
Elongation at maximum tensile force MD	MD	≥ 15 %				
	CD	≥ 20 %				
Tear resistance	MD	≥ 200 N			≥ 250 N	
	CD	≥ 220 N			≥ 270 N	
Foldability at low temperature	EN 495-5	≤ -25 °C				
Joint peel resistance	MD	≥ 260 N/50 mm				
	CD	≥ 260 N/50 mm				
Joint shear resistance	MD	≥ 1000 N/50 mm			≥ 1100 N/50 mm	
	CD	≥ 1000 N/50 mm			≥ 1100 N/50 mm	
Water tightness, 400 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 1000 mm	meets 1250 mm		meets 1750 mm	
	EN 12691 method B	meets 2000 mm				
Exposure to UV radiation, elevated temperature and water (5000 h)	EN 1297	meets, grade 0				
Water vapour properties - factor μ	EN 1931	15000 ± 30 %				
Resistance to root penetration	EN 13948 FLL test	meets				

MD - Machine Direction, CD - Cross Direction

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	<ul style="list-style-type: none">● Construction and technologic regulation of roofing waterproofing system FATRAFOL-S (PN 5415/2011)● Certificate of conformity of the factory production control according to EN 13956:2012, emitted by CSI, a. s., Prague, workstation Zlín● European Technical Approval ETA-12/0013, emitted by Technický a zkušební ústav stavební Praha, s. p.
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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