



Waterproofing membrane FATRAFOL 810/V

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Product description	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.
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

FATRAFOL 810/V fulfils requirements of the Standard EN 13956.

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 with ETAG 006.

Dimensions:

Thickness [mm] (EN 1849-2)	Width [mm] (EN 1848-2)	Length ^{*)} [m] (EN 1848-2)	Quantity [m²]	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
1.80 (-0.09; +0.18)	750 (-10; +20)	20 (-0; +1)	15	27
	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
2.00 (-0.10; +0.20)	1600 (-10; +20)	16.5 (-0; +0.8)	26.4	61
	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
2.40 (-0.12; +0.24)	1600 (-10; +20)	15 (-0; +0.7)	24	61
	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}				

<u>Colour:</u>	<p>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.</p> <p>The colour of a back layer is grey.</p>
<u>Performance:</u>	<p>FATRAFOL 810/V basic constructions have reinforcement fabric finely designed top smooth matte surface layers.</p> <p>FATRAFOL 810/V can be produced on surface by designed D205 and D336 quality (according to Fatra Sampler), and depending on agreement between producer and subscriber.</p>
<u>Packing, transport, storage:</u>	<p>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.</p>

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	EN 12311-2 method A	≥ 1000 N/50 mm				≥ 1100 N/50 mm
	CD		≥ 1000 N/50 mm				≥ 1100 N/50 mm
Elongation at maximum tensile force	MD		≥ 15 %				
	CD		≥ 20 %				
Tear resistance	MD	EN 12310-2	≥ 200 N				≥ 250 N
	CD		≥ 220 N				≥ 270 N
Foldability at low temperature		EN 495-5	≤ -25 °C				
Joint peel resistance	MD	EN 12316-2	≥ 260 N/50 mm				
	CD		≥ 260 N/50 mm				
Joint shear resistance	MD	EN 12317-2	≥ 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 ± 4500				
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)● Manufacturing control system certificate Standard ČSN EN 13956:2006, emitted by CSI, a. s., Prague, workstation Zlín● European Technical Approval ETA-12/0013, emitted by Technický a zkušební ústav stavební Praha, s. p.
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