



Waterproofing membrane FATRAFOL 818/V

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Product description	FATRAFOL 818/V is a roofing membrane on PVC-P basis with inbuilt glass fleece. It is produced a variant with UV stabilization only, marked FATRAFOL 818/V-UV . Membrane is produced by a multi-extrusion processing.
Usage	<p>FATRAFOL 818/V-UV is identified for providing the one layer coating of flat roof coverings being loaded with aggregates, functional or vegetative layers. It is not suitable for mechanical anchoring of the coating coverings and for the coverings without added loading layer.</p> <p>FATRAFOL 818/V-UV is long term resistant to UV radiation that is why the membrane is identified first of all for applications, where there is impossible to ensure protection from direct influence of weathering influences within the entire area of the roof cladding – as e. g. it is pawing on beds.</p> <p>FATRAFOL 818/V-UV can be used for working of attics. Due to working of passages and other broken details going out of the roof cladding there is suitable to apply a FATRAFOL 804 membrane for making the details.</p>
Application	<p>The laying of FATRAFOL 818/V-UV can be made by specialized and for this purpose trained firms. The membrane 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.</p> <p>When polystyrene or an element made of asphalt are the adjacent layer of the membrane coating within the roofing covering, there is necessary to hinder them from a direct contact with them with a separation layer.</p> <p>The membrane can be mutual connected by hot air welding with manual or automatic welding instruments. The laying and jointing can be made under temperatures above -5 °C.</p>

Product data

FATRAFOL 818/V-UV fulfils requirements of the Standard EN 13956.

Dimensions:

Thickness [mm] (EN 1849-2)	Width [mm] (EN 1848-2)	Length [m] *) (EN 1848-2)	Quantity [m²]
1.20 (-0.06; +0.12)	2050 (-10; +20)	20 (-0; +1.0)	41.00
		25 (-0; +1.0)	51.25
1.50 (-0.07; +0.15)	2050 (-10; +20)	15 (-0; +0.7)	30.75
		20 (-0; +1.0)	41.00
1.80 (-0.09; +0.18)	2050 (-10; +20)	16.5 (-0; +0.8)	33.825
2.00 (-0.10; +0.20)	2050 (-10; +20)	15 (-0; +0,7)	30.75
*) The membrane can be provided also in another lengths after agreement with customer.			

Colour:

FATRAFOL 818/V-UV is produced in a colour light grey RAL 7040 and black grey RAL 7021.

Packing, transport, storage:

FATRAFOL 818/V-UV is packed into the rolls, which are laid on the wood pallets and fixed by a packing film. FATRAFOL 818/V-UV 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	
Visible defects	EN 1850-2	meets	meets	meets	meets	
Straightness	EN 1848-2	≤ 30 mm	≤ 30 mm	≤ 30 mm	≤ 30 mm	
Flatness	EN 1848-2	≤ 10 mm	≤ 10 mm	≤ 10 mm	≤ 10 mm	
Dimensional stability	EN 1107-2	max. ± 0,1 %	max. ± 0,1 %	max. ± 0,1 %	max. ± 0,1 %	
Tensile strength	MD CD	EN 12311-2 method B	≥ 11 N/mm ² ≥ 11 N/mm ²	≥ 11 N/mm ² ≥ 11 N/mm ²	≥ 11 N/mm ² ≥ 11 N/mm ²	≥ 11 N/mm ² ≥ 11 N/mm ²
Elongation at break	MD CD		≥ 200 % ≥ 200 %	≥ 200 % ≥ 200 %	≥ 200 % ≥ 200 %	≥ 200 % ≥ 200 %
Tear resistance	MD CD	EN 12310-2	≥ 90 N ≥ 90 N	≥ 110 N ≥ 110 N	≥ 140 N ≥ 140 N	≥ 150 N ≥ 150 N
Foldability at low temperature		EN 495-5	≤ -30 °C	≤ -30 °C	≤ -30 °C	≤ -30 °C
Joint peel resistance	MD CD	EN 12316-2	≥ 250 N/50 mm ≥ 250 N/50 mm	≥ 250 N/50 mm ≥ 250 N/50 mm	≥ 250 N/50 mm ≥ 250 N/50 mm	≥ 250 N/50 mm ≥ 250 N/50 mm
Joint shear resistance	MD CD	EN 12317-2	≥ 500 N/50 mm ≥ 500 N/50 mm	≥ 650 N/50 mm ≥ 650 N/50 mm	≥ 800 N/50 mm ≥ 800 N/50 mm	≥ 800 N/50 mm ≥ 800 N/50 mm
Water tightness to liquid state 400 kPa		EN 1928 method B	meets	meets	meets	meets
Resistance to static load		EN 12730 method B	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
Impact resistance		EN 12691 method A	meets 1000 mm	meets 1250 mm	meets 1500 mm	meets 1500 mm
		EN 12691 method B	meets 2000 mm	meets 2000 mm	meets 2000 mm	meets 2000 mm
Exposition to UV-radiation, higher temperature and water		EN 1297	meets grade 0	meets grade 0	meets grade	meets grade
Water vapour properties - factor μ		EN 1931	20000 ± 4000	20000 ± 4000	20000 ± 4000	20000 ± 4000
Resistance to root penetration		EN 13948 FLL test	meets	meets	meets	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 No. 1390-CPD-0140/09/Z of waterproofing membrane FATRAFOL 818/V according to Standard ČSN EN 13956:2006, emitted by CSI, a. s., Prague, workstation Zlín
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Producer:	Fatra, j.c., třída Tomáše Bati 1541, 763 61 Napajedla, Czech Republic tel.: +420 577 50 3323 (1111) e-mail: studio@fatrafol.cz fax: +420 577 50 2253 (3001) http://www.fatrafol.cz
