

Waterproofing membrane FATRAFOL 810

TL 5-1008-06

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Product description FATRAFOL 810 (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.

FATRAFOL 810 is produced by calendering and lamination, FATRAFOL 810/V by a multi-extrusion processing. All the production variants are described in this Technical Data Sheet - further like FATRAFOL 810, only.

Usage FATRAFOL 810 is identified first of all for making the one-layer coating coverings of flat roofs, mechanically anchored to the underley without loading layer.

Application The laying of FATRAFOL 810 can be made by specialized and for this purpose trained firms at the constructions.

FATRAFOL 810 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.

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.

Product data FATRAFOL 810 fulfils requirements of the Standard EN 13956.

FATRAFOL 810 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 [m ²]	Weight of the roll [kg]**)
FATRAFOL 810				
1.20 (-0.06; +0.12)	1300 (-6; +13)	20 (-0; +1)	26	41
	650 (-3; +6)	20 (-0; +1)	13	21
	215 (-2; +4)	40 (-0; +2)	8.6	13
	160 (-2; +4)	40 (-0; +2)	6.4	10
	120 (-2; +4)	40 (-0; +2)	4.8	8
1.50 (-0.07; +0.15)	1300 (-6; +13)	20 (-0; +1)	26	51
	1000 (-5; +10)	20 (-0; +1)	20	38
	650 (-3; +6)	20 (-0; +1)	13	26
	215 (-2; +4)	32 (-0; +1.5)	6.88	14
	160 (-2; +4)	32 (-0; +1.5)	5.12	10
2.00 (-0.10; +0.20)	1300 (-6; +13)	15.4 (-0; +0.7)	20	39
FATRAFOL 810/V				
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)	51.12	80
	1025 (-10; +20)	25 (-0; +1)	25.625	39
	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	80
	1025 (-10; +20)	20 (-0; +1)	20.5	40
	1600 (-10; +20)	20 (-0; +1)	32	61
	1600 (-10; +20)	15 (-0; +0.7)	24	46
	1300 (-10; +20)	20 (-0; +1)	26	50
	750 (-10; +20)	20 (-0; +1)	15	29
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 (-10; +20)	16.5 (-0; +0.8)	16.9	39
	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	79
	1025 (-10; +20)	15 (-0; +0.7)	15	39
	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 is produced in a basic colour of the upper layer of light grey RAL 7040 and in colour variants of dark grey RAL 7012, green RAL 6000, red RAL 3016, blue RAL 5015, copper brown RAL 8004 and white RAL 9010.

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

Packing, transport, storage:

The colour of a back layer is grey.

FATRAFOL 810 is packed into the rolls, which are laid on the wood pallets and fixed by a packing film. FATRAFOL 810 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:

FATRAFOL 810					
Characteristic		Test standard	Values of individual product Thicknesses		
			1.20 mm	1.50 mm	2.00 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		
	CD		≥ 950 N/50 mm		
Elongation at maximum tensile force	MD		≥ 15 %		
	CD		≥ 15 %		
Tear resistance	MD	EN 12310-2	≥ 180 N		
	CD		≥ 180 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	≥ 900 N/50 mm		
	CD		≥ 850 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		
Impact resistance		EN 12691 method A	meets 1000 mm	meets 1250 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		
Rezistance to root penetration		EN 13948 FLL test	meets		

MD - Machine Direction, CD - Cross Direction

FATRAFOL 810/V							
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 %					
Tensile strength	MD	EN 12311-2 method A	≥ 1000 N/50 mm	≥ 1000 N/50 mm	≥ 1100 N/50 mm		
	CD		≥ 1000 N/50 mm	≥ 1100 N/50 mm		≥ 1200 N/50 mm	
Elongation at break	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**Scrap disposal**

FATRAFOL 810 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 roofing waterproofing system FATRAFOL-S (PN 5415/2011)

Manufacturing control system certificate No. 1390-CPD-0026/06/Z of waterproofing membrane FATRAFOL 810 according to Standard

ČSN EN 13956:2006, emitted by CSI, a. s., Prague, workstation Zlín

Manufacturing control system certificate No. 1390-CPD-0033/06/Z of waterproofing membranes FATRAFOL 810/V according to 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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