



Waterproofing membrane FATRAFOL 810

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Vydání: 8

Product description

FATRAFOL 810 (810/V, 810 AA, 810/V AA) 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.

FATRAFOL 810 (810 AA) is produced by calendaring and lamination, FATRAFOL 810/V (810/V AA) by a multi-extrusion processing. FATRAFOL 810 AA has a higher fire resistance. All the production variants are described by 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. FATRAFOL 810 can be used also for the roofs being partly loaded.

If a foamed polystyrene or element of asphalt is an adjacent layer of the sheet coat in the roofing covering, there is necessary to hinder them from the direct contact with - by a separation layer of textile of synthetic fibres of a square mass of 300 g/m^2 at least. The membrane separation can be made also with a glass fleece of a square mass of 120 g/m^2 at least under the application of softened polystyrene.

FATRAFOL 810 must not be used as a waterproofing layer at any building constructions containing tars.

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 above $-5 \text{ }^\circ\text{C}$.

Product data

FATRAFOL 810 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]
FATRAFOL 810			
1.20 (-0.06; +0.12)	1300 (-6; +13)	20 (-0; +1)	26
	650 (-3; +6)	20 (-0; +1)	13
	215 (-2; +4)	40 (-0; +2)	8.6
	160 (-2; +4)	40 (-0; +2)	6.4
1.50 (-0.07; +0.15)	1300 (-6; +13)	20 (-0; +1)	26
	650 (-3; +6)	20 (-0; +1)	13
2.00 (-0.10; +0.20)	1300 (-6; +13)	15.4 (-0; +0.7)	20
FATRAFOL 810/V			
1.20 (-0.06; +0.12)	2000 (-10; +20)	25 (-0; +1)	50
	2000 (-10; +20)	20 (-0; +1)	40
	1000 (-5; +10)	25 (-0; +1)	25
	2050 (-10; +20)	25 (-0; +1)	51.25
1.50 (-0.07; +0.15)	2000 (-10; +20)	20 (-0; +1)	40
	2000 (-10; +20)	15 (-0; +0.7)	30
	1000 (-5; +10)	20 (-0; +1)	20
	2050 (-10; +20)	20 (-0; +1)	41
1.80 (-0.09; +0.18)	2000 (-10; +20)	16.5 (-0; +0.8)	33
	1000 (-5; +10)	16.5 (-0; +0.8)	16.5
	2050 (-10; +20)	16.5 (-0; +0.8)	33.825
2.00 (-0,10; +0,20)	2000 (-10; +20)	15 (-0; +0,7)	30
FATRAFOL 810 AA			
1.50 (-0.07; +0.15)	1300 (-6; +13)	20 (-0; +1)	26
FATRAFOL 810/V AA			
1.50 (-0.07; +0.15)	2000 (-10; +20)	20 (-0; +1)	40
1.20 (-0.06; +0.12)	2000 (-10; +20)	25 (-0; +1)	50
*) 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.			

Colour:

FATRAFOL 810 is produced in a basic colour of the upper layer of light gray - No. 2761 and in colour variants of dark gray - No. 2003, orange - No. 3105, red - No. 3104, blue - No. 9113, glaucous - No. 7060, white - RAL 9010 and copper brown - No. 3503.

FATRAFOL 810/V is produced in a basic colour of the upper layer of light gray - No. 2761 and in colour variants of dark gray - No. 2003, red - No. 3104, blue - No. 9113, glaucous - No. 7060, white - RAL 9010, creamy - No. 2732 and green RAL 6002.

FATRAFOL 810 AA a FATRAFOL 810/V AA are produced in a colour of light gray - No. 2761 and dark gray - No. 2003 only.

Packing, transport, storage:

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, FATRAFOL 810 AA				
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 %		
Tensile strength	MD CD	EN 12311-2 method A	≥ 1000 N/50 mm ≥ 950 N/50 mm	
Elongation at brake	MD CD		≥ 15 % ≥ 15 %	
Tear resistance	MD CD	EN 12310-2	≥ 180 N ≥ 180 N	
Foldability at low temperature		EN 495-5	≤ -25 °C	
Joint peel resistance	MD CD	EN 12316-2	≥ 260 N/50 mm ≥ 260 N/50 mm	
Joint shear resistance	MD CD	EN 12317-2	≥ 900 N/50 mm ≥ 850 N/50 mm	
Water tightness to liquid state 10 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	
Exposition to UV-radiation, higher temperature and water		EN 1297	meets, grade 0	
Water vapour properties - factor μ		EN 1931	21000 ± 3000	
Characteristics of roof exposed to external fire **)		P ENV 1187	B _{ROOF} (t1), B _{ROOF} (t3)	
Resistance to root penetration		EN 13948 FLL test	meets	
<p>*) The membranes meet the test pressure of 60 kPa.</p> <p>**) The FATRAFOL 810 AA achieved within a given ply-structure of roofing coat a classification of AA rating according to BS 476-3:1958.</p> <p>MD - Machine Direction, CD - Cross Direction</p>				

FATRAFOL 810/V, FATRAFOL 810/V AA					
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			
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	≥ 1000	≥ 1000 N/50 mm	
	CD	method A	N/50 mm	≥ 1100 N/50 mm	
Elongation at brake	MD		≥ 1000	≥ 18 %	
	CD		N/50 mm	≥ 20 %	
Tear resistance	MD	EN 12310-2	≥ 200 N		
	CD		≥ 220 N		
Foldability at low temperature	EN 495-5	≤ -25 °C			
Joint peel resistance ^e	MD	EN 12316-2	≥ 260 N/50 mm		
	CD		≥ 260 N/50 mm		
Joint shear resistance	MD	EN 12317-2	≥ 1000 N/50 mm		
	CD		≥ 1000 N/50 mm		
Water tightness to liquid state 10 kPa *)	EN 1928 method B	meets			
Resistance to static load	EN 12730 method B	meets 20 kg			
Resistance 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			
Exposition to UV-radiation, higher temperature and water	EN 1297	meets, grade 0			
Water vapour properties - factor μ	EN 1931	21000 ± 3000			
Characteristics of roof exposed to external fire **)	P ENV 1187	B _{ROOF} (t1), B _{ROOF} (t3), C _{ROOF} (t4)			
Resistance to root penetration	EN 13948 FLL test	meets			

*) The membranes meet the test pressure of 60 kPa.
 **) The FATRAFOL 810 AA achieved within a given ply-structure of roofing coat a classification of AA rating according to BS 476-3:1958.
 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
- 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

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Kdo

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Pro koho - -

Číslo výtisku

Konec dokumentu