



Waterproofing membrane FATRAFOL 813/VS

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Product description **FATRAFOL 813/VS** is a waterproofing membrane on basis of plasticized polyvinylchloride with build-in glass fleece, T - type according to the ČSN EN 13967:2005/A1:2007 Standard. The membrane is produced by multiple extrusion. It is furnished with a signal upper layer.

FATRAFOL 813/VS is also stable to high temperatures - has a high resistance and good chemical resistance to waters polluted with oil substances. The signal layer enables simple checking of continuity of the coated waterproofing sheeting.

Usage FATRAFOL 813/VS is identified for clamped insulation of ground and underground constructions against to aggressive power- and percolating waters. The membrane is suitable first of all for applications of jointing under high surrounding temperatures and for working the long vertical surfaces - on which it is not slacking - under extreme climatic conditions.

The membrane can be used into surroundings, where there could come to contamination with oil substances - like there are - mineral oils and diesel fuel.

Application FATRAFOL 813/VS is applied in conformity with fundamentals being set in a Construction and Technological Instruction of the producer valid in time of insulation providing.

The membrane can be mutual joined by hot air welding. Laying and jointing can be made already at the temperatures from -5 °C.

Product data FATRAFOL 813/VS fulfils requirements of the Standard ČSN EN 13967:2005/A1:2007 a ČSN EN 14909:2006.

Dimensions:

Thickness [mm] (EN 1849-2)	Width [mm] (EN 1848-2)	Length [m] (EN 1848-2)	Quantity [m ²]
1.50 (-0.07; +0.15)	2050 (-10; +20)	20 (-0; +1)	41
2.00 (-0.10; +0.20)	2050 (-10; +20)	15 (-0; +0,75)	30.75

Colour:

FATRAFOL 813/VS is produced in a colour of signal yellow upper layer. Reverse side of the membrane is black.

Packing, transport, storage: FATRAFOL 813/VS is packed into the rolls, which are laid on the wood pallets and fixed by a packing film. FATRAFOL 813/VS 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	
		1.50 mm	2.00 mm
Visible defects	EN 1850-2	meets	meets
Straightness	EN 1848-2	≤ 50	≤ 50
Square weight - informative value	EN 1849-2	1.93 kg.m ⁻²	2.58 kg.m ⁻²
Dimensional stability, MD	EN 1107-2	max. ± 0.5 %	max. ± 0.5 %
Tensile strength	EN 12311-2	≥ 11 N/mm ²	≥ 11 N/mm ²
Elongation at break	method B	≥ 125 %	≥ 125 %
Resistance to tear	EN 12310-1	≥ 300 N	≥ 300 N
Foldability at low temperature (top surface)	EN 495-5	≤ -25 °C	≤ -25 °C
Joint strength	EN 12317-2	≥ 770 N/50 mm	≥ 1000 N/50 mm
Water tightness to liquid state, 400 kPa	EN 1928 method B	meets	meets
Resistance to static loading	EN 12730 method B	meets 20 kg	meets 20 kg
Reaction to fire	EN 13501-1	Class E	Class E
Impact resistance	EN 12691 method A	meets 1750 mm	meets 2000 mm
	EN 12691 method B	meets 2000 mm	meets 2000 mm
Durability of watertightness against artificial ageing	EN 1296 EN 1928	meets	meets
Durability of watertightness against chemicals (Ca(OH) ₂ ; 10% NaCl)	EN 1847 EN 1928	meets	meets
Durability of watertightness against chemicals (petroleum, transformer oil)	EN 1847 EN 1928	meets	meets
Water vapour transmission - factor μ	EN 1931	25000 ± 7000	25000 ± 7000

MD - Machine Direction

Safety regulation	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 waterproofing system FATRAFOL-H● Manufacturing control system certificate No. 1390-CPD-0068/10/Z of waterproofing membrane FATRAFOL 813/V and FATRAFOL 813/VS according to the Standards ČSN EN 13967:2005/A1:2007 and ČSN EN 14909:2006, emitted by CSI, a. s., Prague, workstation Zlín
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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