



Waterproofing membrane FATRAFOL 803/VST Thickness 1.50 mm

Data Sheet No.: TL 5-1033-16

Issue No.: 2

Effective from: 07.03.2019

Uncontrolled printing

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| Product description | FATRAFOL 803/VST is an unreinforced membrane with the signal layer. FATRAFOL 803/VST is produced from virgin raw materials on a base of plasticized polyvinylchloride (PVC-P). |
| Usage | <p>FATRAFOL 803/VST is waterproofing membrane for:</p> <ul style="list-style-type: none">- tunnels, constructed by tunnel boring machines (TBMs), drill and blast method or cut and cover method,- underground structures beeing part of tunnels. <p>FATRAFOL 803 / VST is designed for building structures loaded with water acting hydrostatic pressure.</p> |
| Application | <p>FATRAFOL 803/VST 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>The bands are generally joined using a double-track hot-wedge welding machine. The welding machine must be set up according to test welds that were made at the site under existing weather conditions.</p> |

Product data

FATRAFOL 803/VST fulfils requirements for the polymeric geosynthetic barriers according to the Standard EN 13491.

Dimensions:

| Thickness [mm] (EN 1849-2) | Width [mm] (EN 1848-2) | Length [m] (EN 1848-2) | Quantity [m ²] |
|-------------------------------|---------------------------|---------------------------|----------------------------|
| 1.50 (-0.08;+0.15) | 2000 (-10; +20) | 20 (-0; +1) | 40 |

The membrane can be provided also in another winding lengths after agreement between producer and customer.

Colour:

FATRAFOL 803/VST is produced in a colour of signal yellow upper layer. Reverse side of the membrane is black.

Packing, transport, storage:

FATRAFOL 803/VST is packed into rolls, which are laid on wood pallets and fixed with a packing film. There is recommended to transport the membrane in covered transport means and storage in original closed packs. 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 | Value |
|--|--|----------------------------|---|
| Visible defects | | EN 1850-2 | Meets |
| Straightness | | EN 1848-2 | Meets |
| Mass per unit area | | EN 1849-2 | 1.7 kg/m ² - 2.0 kg/m ² |
| Water permeability | | EN 14150 | < 10 ⁻⁶ m ³ .m ⁻² .d ⁻¹ |
| Tensile strength | | EN ISO 12311-2 method B | 17 N/mm ² - 2 N/mm ² / + 3 N/mm ² |
| Elongation | | | ≥ 270 % |
| Static puncture test (CBR test) | | EN ISO 12236 | ≥ 1.9 kN |
| Tear strength | | ISO 34-1 method B | ≥ 50 kN/m |
| Joint strength | | EN 12317-2 | ≥ 840 N/50 mm |
| Low temperature behaviour (cold bending) | | EN 495-5 | ≤ -30 °C |
| Resistance to weathering - variation in tensile strength - variation in elongation | | EN 12224 | ≤ 25 % |
| Resistance to oxidation - variation in tensile strength | | EN 14575 | ≤ 25 % |
| Chemical resistance - variation in elongation - variation in tensile strength | Method A: acidic medium | EN 14414 | ≤ 10 % |
| | Method B: alkaline medium | | ≤ 10 % |
| Chemical resistance - variation in elongation | Method C: diesel + higher hydrocarbons | | ≤ 20 % |
| | Method D: syntetic leach | | ≤ 10 % |
| Root penetration | | CEN/TS 14416 | No perforation |

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| Fire resistance | EN ISO 11925-2 | Class E |
| Water tightness (400 kPa) | EN 1928 method B | Meets |
| Dimensional change after heating | EN ISO 1107-2 | $\leq \pm 2 \%$ |

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| 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 waterproofing system FATRAFOL-T (PN 5421/2016)● Certificate of conformity of the factory production control according to EN 13491:2004/ A1:2006, issued by TZÚ, s.p., Brno |
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