

## PRODUCT DATA SHEET

# Sarnafil® TG 76-18 FSA

POLYMERIC MEMBRANE FOR ADHERED ROOF WATERPROOFING



### DESCRIPTION

Sarnafil® TG 76-18 FSA (thickness 1.8mm) is a multi-layer synthetic roof waterproofing sheet based on premium-quality flexible polyolefins (FPO), with inlay of glass non-woven/glass scrim and Polyester/fiber glass fleece backing according to EN 13956. Sarnafil® TG 76-18 FSA is a hot air weldable, UV-resistant roof membrane, designed for use in all global climatic conditions.

### USES

Roof waterproofing membrane for exposed flat roofs on smooth substrates. Fully bonded roof surfaces by factory-applied self-adhesive film.

### CHARACTERISTICS / ADVANTAGES

- Fast installation of membrane
- Instant wind uplift resistance through the self-adhesive backing
- Proven performance over decades
- Resistant to permanent UV irradiation
- High dimensional stability due to glass fleece inlay
- Resistant against impact load and hail
- Resistant to all common environmental influences
- Resistant to micro-organisms
- Hot air welding without use of open flames

### SUSTAINABILITY

- Conformity with LEED v4 MRc 2 (Option 1): Conformity with LEED v4 MRc 2 (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations.
- Conformity with LEED v4 MRc 3 (Option 2): Building Product Disclosure and Optimization - Sourcing of Raw Materials.
- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization - Material Ingredients.
- Conformity with LEED v2009 MRc 4 (Option 2): Recycled Content.
- IBU Environmental Product Declaration (EPD) available (ongoing).

### APPROVALS / CERTIFICATES

- Sarnafil® TG 76-18 FSA is designed and manufactured to meet most international recognised standards.
- Polymeric sheets for roof waterproofing according to EN 13956, certified by notified body 1213-CPD-3914 and provided with the CE-mark.
- Reaction to fire according to EN 13501-1.
- Official Quality Approvals and Agreement Certificates and approvals.
- Monitoring and assessment by approved laboratories.
- Quality Management system in accordance with EN ISO 9001/14001.

### PRODUCT INFORMATION

#### Packaging

Sarnafil® TG 76-18 FSA standard rolls are wrapped individually in a blue PE-foil.

Packing unit:	see price list
Roll length:	15.00 m
Roll width:	2.00 m
Roll weight:	72.00 kg

<b>Appearance / Colour</b>	Surface:	matt
	Colours:	
	Top surface:	beige
	Bottom surface:	black
<b>Shelf life</b>	The product must be installed within 18 months of production date.	
<b>Storage conditions</b>	Rolls must be stored in a horizontal position on pallet and protected from direct sunlight, rain and snow. Do not stack pallets of rolls during transport or storage.	
<b>Product Declaration</b>	EN 13956	
<b>Visible Defects</b>	Pass	(EN 1850-2)
<b>Length</b>	15 m (-0 % / +5 %)	(EN 1848-2)
<b>Width</b>	2 m (-0.5 % / +1 %)	(EN 1848-2)
<b>Effective Thickness</b>	1.8 mm (-5 % / +10 %)	(EN 1849-2)
<b>Straightness</b>	≤ 30 mm	(EN 1848-2)
<b>Flatness</b>	≤ 10 mm	(EN 1848-2)
<b>Mass per unit area</b>	2.3 kg/m <sup>2</sup> (-5 % / +10 %)	(EN 1849-2)

## TECHNICAL INFORMATION

<b>Resistance to Impact</b>	hard substrate	≥ 900 mm	(EN 12691)
	soft substrate	≥ 1500 mm	
<b>Hail Resistance</b>	rigid substrates	≥ 25 m/s	(EN 13583)
	flexible substrates	≥ 37 m/s	
<b>Resistance to Static Load</b>	soft substrate	≥ 20 kg	(EN 12730)
	rigid substrate	≥ 20 kg	
<b>Tensile Strength</b>	longitudinal (md) <sup>1)</sup>	≥ 500 N/50mm	(EN 12311-1)
	transversal (cmd) <sup>2)</sup>	≥ 500 N/50mm	
1) md = machine direction, 2) cmd = cross machine direction			
<b>Elongation</b>	longitudinal (md) <sup>1)</sup>	≥ 2 %	(EN 12311-2)
	transversal (cmd) <sup>2)</sup>	≥ 2 %	
1) md = machine direction, 2) cmd = cross machine direction			
<b>Dimensional Stability</b>	longitudinal (md) 1)	≤ 0.2 %	(EN 1107-2)
	transversal (cmd) 2)	≤ 0.1 %	
1) md = machine direction, 2) cmd = cross machine direction			
<b>Joint Peel Resistance</b>	≥ 300 N/50mm		(EN 12316-2)
<b>Joint Shear Resistance</b>	≥ 300 N/50mm		(EN 12317-2)
<b>Foldability at Low Temperature</b>	≤ -25 °C		(EN 495-5)
<b>External Fire Performance</b>	BROOF(t1) < 20°		(EN 1187) (EN 13501-5)
<b>Reaction to Fire</b>	Class E	(EN ISO 11925-2, classification to EN 13501-5)	
<b>Effect of Liquid Chemicals, Including Water</b>	on request		(EN 1847)
<b>Resistance to UV Exposure</b>	Pass (> 5000 h / grad 0)		(EN 1297)
<b>Water Vapour Transmission</b>	μ = 150 000		(EN 1931)

## SYSTEMS

### System Structure

Wide range of accessories is available e.g. prefabricated parts, roof drains, scuppers, protection sheets and separation layers.

The following accessories shall be used:

- Sarnafil® T 66-15 D Sheet for detailing
- Sarnafil® T Metal Sheet
- Sarnabar®
- Sarnafil® T Prep / Sarnafil® T Wet Task Set
- Sarnacol® T 660
- Solvent T 660
- Sarnafil® T Clean
- Primer 780
- Primer 600

## APPLICATION INFORMATION

### Ambient Air Temperature

+5°C min. / +60°C max.

### Substrate Temperature

+5°C min. / +60°C max.

The application temperature must exceed the dew point by at least 3°C.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

The smooth substrate has to be one of the following materials:

- Sarnatherm PIR GT / Kingspan TR 27 (Primer 780 or Primer 600)
- Kingspan TR 26 Alu (no Primer)
- MW Bondrock MV (Primer 780 or Primer 600)
- Sarnatherm® T 200 G (use of Primer to be defined)
- Sarnatherm® PIR VV (Primer 780 or Primer 600)
- OSB 3 / Plywood (Primer 780 or Primer 600)
- Concrete (Primer 780 / Primer 600)
- Metal composite panel released by TM Roofing (e.g. Brucha Panel) (no Primer)

The substrate surface/supporting layer must be uniform, smooth and free of any sharp protrusion or burrs, clean, dry and free of grease, bitumen, oil and dust.

Due to self-adhesion of the membrane all layers of the roof build-up and substrate must be secured against wind uplift.

### SUBSTRATE PREPARATION

Primer 600 / Primer 780 according to valid product data sheet.

### APPLICATION

Installation works must be carried out only by Sika instructed contractors for roofing.

Installation of some ancillary products, e.g. contact adhesives / cleaners is limited to temperatures above +5 °C. Please observe information given by Product Data Sheets. Special measures may be compulsory for installation below +5 °C ambient temperature due to safety requirements in accordance with national regulations.

### APPLICATION METHOD / TOOLS

#### Installation procedure:

According to the valid installation instructions of manufacturer for Sarnafil® TG 76-18 FSA system for fully adhered roofs.

#### Fixing Method:

Mechanical fixing at the roof perimeter with Sarnabar is obligatory to keep membrane in place.

Adhered roof junction areas and flashings: Sarnafil® TG 66- is adhered to substrate layers such as reinforced concrete rendering, timber panels, metal sheets, etc. by contact adhesive Sarnacol® T 660. Seam overlaps are welded by hot air.

#### Welding Method:

Before welding the seams must be prepared with Sarnafil® T Prep. Overlap seams are welded by electric hot air welding equipment, such as manual hot air welding machines and pressure rollers or automatic hot air welding machines with controlled hot air temperature.

#### Recommended type of equipment:

- Leister Triac, for manual welding
- Sarnamatic, for automatic welding

Welding parameters including temperature, machine speed, air flow, pressure and machine settings must be evaluated, adapted and checked on site according to the type of equipment and the climatic situation prior to welding. The effective width of welded overlaps by hot air must be minimum 20 mm.

The seams must be mechanically tested with screw driver to ensure the integrity / completion of the weld. Any imperfections must be rectified by hot air welding.

## IMPORTANT CONSIDERATIONS

Geographical / Climate

The use of Sarnafil® TG 76-18 FSA membrane is limited to geographical locations with average monthly minimum temperatures of -50 °C. Permanent ambient temperature during use is limited to +50 °C.

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## ECOLOGY, HEALTH AND SAFETY

Fresh air ventilation must be ensured, when working (welding) in closed rooms.

## REGULATION (EC) NO 1907/2006 - REACH

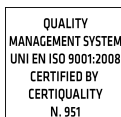
This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w)

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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