

PRODUCT DATA SHEET

Sarnafil® TG 76-18 E Felt PS

Polymeric FPO membrane for adhered roof waterproofing roof slope $\geq 20^\circ$

DESCRIPTION

Sarnafil® TG 76-18 E Felt PS (thickness 1.8 mm) is a multi-layer synthetic roof waterproofing membrane based on flexible polyolefins (FPO), containing stabilizers, with inlay of glass-non-woven and polyester/glass mix fleece backing. Sarnafil® TG 76-18 E Felt PS is a hot air weldable, UV-resistant roof membrane, designed for adhered roofs with roof slope $\geq 20^\circ$.

(DE/E1 FPO-BV-E-GV-K-PV-1.8)

USES

Waterproofing membrane for adhered roofs with roof slope $\geq 20^\circ$ and increased fire protection.

FEATURES

- Increased fire protection
- Proven performance over decades
- Resistant against impact and hail
- Resistant against all common environmental influences
- Resistant against micro-organisms
- Compatible to old bitumen

CERTIFICATES AND TEST REPORTS

- Polymeric sheets for roof waterproofing according to DIN EN 13956, certified by notified body 1213-CPD-3914 and provided with the CE-marking
- DIN/TS 20000-201:2025-02
- DIN 18531-2
- Reaction to fire according to DIN EN 13501-1: Class E
- External fire performance tested according to DIN EN 1187 and classified according to DIN EN 13501-5: BROOF(t1)
- Resistance to flying sparks and radiant heat according to DIN 4102-7 (Sika tested roof structures)

PRODUCT INFORMATION

Packaging	Rolls are wrapped individually in a PE-foil.	
	Roll length:	15 m
	Roll width:	2 m
	Roll weight:	60 kg
Packaging units: see current price and product range overview.		
Appearance and colour	Top surface:	beige window grey (nearest RAL 7040)
	Bottom surface:	Polyester fleece backing
Shelf life	If stored properly the product retains its properties.	
Storage conditions	Store rolls horizontal in unopened and undamaged original packaging between +5 °C und +30 °C on pallets. Protect from direct sunlight, rain and snow. Do not stack pallets during transport or storage.	

Visible defects	pass	(DIN EN 1850-2)
Length	15 m (-0 % / +5 %)	(DIN EN 1848-2)
Width	2 m (-0.5 % / +1%)	(DIN EN 1848-2)
Effective thickness	1.8 mm (-5 % / +10 %)	(DIN EN 1849-2)
Straightness	≤ 30 mm	(DIN EN 1848-2)
Flatness	≤ 10 mm	(DIN EN 1848-2)
Mass per unit area	2 kg/m ² (-5 % / +10 %)	(DIN EN 1849-2)

TECHNICAL INFORMATION

Resistance to impact	hard substrate	≥ 1.000 mm	(DIN EN 12691)
	soft substrate	≥ 1.500 mm	
Hail resistance	rigid substrate	≥ 25 m/s	(DIN EN 13583)
	flexible substrate	≥ 33 m/s	
Resistance to static loading	hard substrate	≥ 20 kg	(DIN EN 12730)
	soft substrate	≥ 20 kg	
Tensile strength	longitudinal (md)*	≥ 500 N/50 mm	(DIN EN 12311-2)
	transversal (cmd)*	≥ 500 N/50 mm	
	*md= machine direction *cmd = cross machine direction		
Elongation	longitudinal (md)*	≥ 2 %	(DIN EN 12311-2)
	transversal (cmd)*	≥ 2 %	
	*md= machine direction *cmd = cross machine direction		
Dimensional stability	longitudinal (md)*	≤ 0.2 %	(DIN EN 1107-2)
	transversal (cmd)*	≤ 0.1 %	
	*md = machine direction *cmd = cross machine direction		
Joint peel resistance	≥ 300 N/50 mm		(DIN EN 12316-2)
Joint shear resistance	≥ 300 N/50 mm Crack outside the joint seam		(DIN EN 12317-2)
Foldability at low temperature	≤ -20 °C		(DIN EN 495-5)
Reaction to fire	Class E		(DIN EN ISO 11925-2) (Classification according to DIN EN 13501-1)
Effect of liquid chemicals, including water	on request		(DIN EN 1847)
Exposure to bitumen	pass		(DIN EN 1548)
Retention of properties after heat ageing	B _{ROOF} (t1) < 20°, > 20°		(DIN EN 13501-5) (DIN CEN/TS 1187)
	Resistance to flying sparks and radiant heat according to DIN 4102-7 (tested roof structure of Sika)		
	Fulfilled for roof slope ≥ 20°		(DIN CEN/ TS 1187) (DIN 4102-7)
Resistance to UV exposure	pass (> 5.000 h)		(DIN EN 1297)
	Grade 0		(DIN/TS 20000-201:2025-02 / DIN EN 1297)

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Water-vapour transmission rate	$\mu = 150.000$	(DIN EN 1931)
Watertightness	pass 400 kPa/ 72 h	(DIN EN 1928) (DIN/TS 20000-201:2025-02 / DIN EN 1928)

APPLICATION INFORMATION

Ambient air temperature	-20 °C min. / +60 °C max.
Substrate temperature	-30 °C min. / +60 °C max.

SYSTEM INFORMATION

System structure	System accessories: ▪ Sarnacol® 2142 S ▪ Sarnafil® T 66-15 D (sheet for detailing) ▪ Sarnafil® TS 77 stripes ▪ Sarnafil® metal sheets ▪ Sarnabar® fastening system ▪ Sarnafil® prefabricated parts ▪ Sarnafil® T Clean, Sarnafil® T Prep, Sika® Speed Clean set ▪ Sarnafil® roof drains and scuppers
Compatibility	Sarnafil® TG 76-18 E Felt PS is suitable for laying directly on existing, sufficiently cleaned, and leveled bitumen waterproofing, e.g. renovation of old flat roofs. Color changes to the surface are possible with direct contact with bitumen.

BASIS OF PRODUCT DATA

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

ECOLOGY, HEALTH AND SAFETY

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 the 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).

APPLICATION INSTRUCTIONS

The installation of the roofing membrane should be carried out by Sika® Roofing trained applicators.

SUBSTRATE PREPARATION

The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc. The supporting layer must be compatible to the membrane and free of oil and grease. Cut open any blisters in the old waterproofing and repair. The safety of the existing roof buildup in terms of wind uplift must be ensured. Any insufficient secured sections or components (e.g. chippings, slating etc.) must be removed to provide a smooth surface.

Substrates:

- OSB boards
- Slated/mineral sprinkled bituminous sheets
- Laminated and coated Mineral wool insulation boards
- Laminated PU insulation boards*
- EPS insulation boards

*for bonding on Aluminium-laminated PU insulation boards consult the Sika technical support.

APPLICATION METHOD / TOOLS

The seams of the roofing membranes are joined using hot air welding equipment. The welding process is carried out using automatic welding machines or hand-held welding devices. The welding temperature depends on a number of factors such as the ambient temperature, weather conditions and the welding speed. Information about the basic settings for hot air welding devices can be found in the currently valid installation instructions, which can be requested from us.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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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