

PRODUCT DATA SHEET

Sarnafil® TG 76-15 E Felt PS

POLYMERIC MEMBRANE FOR ADHERED ROOF WATERPROOFING

PRODUCT DESCRIPTION

Sarnafil® TG 76-15 E Felt PS (thickness 1,5 mm) is a multi-layer, synthetic roof waterproofing sheet based on flexible polyolefins (FPO), containing stabilisers, with inlay of glass non-woven and Polyester / Glass mix fleece backing according to EN 13956. Sarnafil® TG 76-15 E Felt PS is a hot air weldable, UV-resistant roof membrane, designed to use in all global climatic conditions.

USES

Waterproofing membrane for:

- Fully bonded exposed sloped roofing systems

CHARACTERISTICS / ADVANTAGES

- Proven performance over decades
- Various colours available
- Resistant to permanent UV exposure
- High dimensional stability from glass fleece inlay
- Resistant to micro-organisms
- Hot air weldable
- No open flame equipment required

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 13956 - Polymeric sheets for roof waterproofing
- External fire performance tested according to ENV 1187 and classified according to EN 13501-5: BROOF(t2), also for direct contact to EPS boards.

PRODUCT INFORMATION

Packaging

Sarnafil® TG 76-15 E Felt PS standard rolls are wrapped individually in a blue PE-foil.

Packing unit	Refer to price list
Roll length	20,00 m
Roll width	2,00 m
Roll weight	74,00 kg

Refer to current price list for packaging variations.

Appearance / Colour

Surface	matt
Colours	
Top surface	beige grey (~RAL 7040)
Bottom surface	black

Shelf Life

5 years from date of production

Storage Conditions

Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between +5 °C and +30 °C. Store in a horizontal position. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to packaging.

Product Declaration	EN 13956	
Visible Defects	Pass	(EN 1850-2)
Length	20,00 m (-0 % / +5 %)	(EN 1848-2)
Width	2,00 m (-0,5 % / +1 %)	(EN 1848-2)
Thickness	1,5 mm (-5 % / +10 %)	(EN 1849-2)
Straightness	≤ 30 mm	(EN 1848-2)
Flatness	≤ 10 mm	(EN 1848-2)
Mass per unit area	1,85 kg/m ² (-5 % / +10 %)	(EN 1849-2)

TECHNICAL INFORMATION

Resistance to Impact	<u>hard substrate</u>	<u>≥ 600 mm</u>	(EN 12691)
	<u>soft substrate</u>	<u>≥ 1300 mm</u>	
Hail Resistance	<u>rigid substrate</u>	<u>≥ 25 m/s</u>	(EN 13583)
	<u>flexible substrate</u>	<u>≥ 37 m/s</u>	
Resistance to Static Load	<u>soft substrate</u>	<u>≥ 20 kg</u>	(EN 12730)
	<u>rigid substrate</u>	<u>≥ 20 kg</u>	
Tensile Strength	<u>longitudinal (md)¹⁾</u>	<u>≥ 500 N/50 mm</u>	(EN 12311-2)
	<u>transversal (cmd)²⁾</u>	<u>≥ 500 N/50 mm</u>	
¹⁾ md = machine direction ²⁾ cmd = cross machine direction			
Elongation	<u>longitudinal (md)¹⁾</u>	<u>≥ 2 %</u>	(EN 12311-2)
	<u>transversal (cmd)²⁾</u>	<u>≥ 2 %</u>	
¹⁾ md = machine direction ²⁾ cmd = cross machine direction			
Dimensional Stability	<u>longitudinal (md)¹⁾</u>	<u>≤ 0,2 %</u>	(EN 1107-2)
	<u>transversal (cmd)²⁾</u>	<u>≤ 0,1 %</u>	
¹⁾ md = machine direction ²⁾ cmd = cross machine direction			
Joint Peel Resistance	≥ 300 N/50 mm		(EN 12316-2)
Joint Shear Resistance	≥ 300 N/50 mm		(EN 12317-2)
Foldability at Low Temperature	≤ -20 °C		(EN 495-5)
External Fire Performance	BROOF (t2) < 20°, > 20°		(EN 13501-5) (ENV 1187)
Reaction to Fire	Class E	EN ISO 11925-2, classification to EN 13501-1	
Effect of Liquid Chemicals, Including Water	Resistant to many chemicals. Contact Sika Technical Services for additional information.		
Exposure to Bitumen	Pass ³⁾		(EN 1548)
³⁾ Sarnafil® T is compatible to old bitumen			
UV Exposure	Pass (> 5 000 h / grade 0)		(EN 1297)
Water Vapour Transimission	μ = 150 000		(EN 1931)
Water Tightness	Pass		(EN 1928)

APPLICATION INFORMATION

Ambient Air Temperature -20 °C min. / +60 °C max.

Substrate Temperature -20 °C min. / +60 °C max.

SYSTEM INFORMATION

System Structure

The following products must be considered for use depending on roof design:

- 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
- Sarnacol® 2142S Adhesive
- Sarnafil® T Clean

Ancillary products: wide range of accessories is available e.g. prefabricated parts, roof drains, scuppers, walkway pads and decor profiles

Compatibility

Sarnafil® TG 76-15 E Felt PS can be installed on all thermal insulation types and levelling layers suitable for roofing. No additional separation layer is required. Sarnafil® TG 76-15 E Felt PS is suitable for installation directly on top of existing, clean, level bituminous roofing, e.g. re-roofing over old flat roofs. Discolouration of the membrane surface may occur if in direct contact with bitumen.

Bonding Sarnafil® TG 76-15 E Felt PS using Sarnacol® 2142S, is compatible with old bitumen waterproofing. (Not suitable for re-roofing over synthetic, rubber or ECB roofing).

The substrate can be one of the following materials:

- Slated/mineralized bitumen sheets; new and aged
- EPS: compressive strength ≥ 100 kPa (10 %), Density ≥ 20 kg/m³
- OSB, plywood, fibre cement boards
- Mineral fibre boards (e.g. Bondrock MV)
- PUR/PIR insulation boards, (e.g. Sarnatherm PIR GT, Kingspan TR 27)
- Concrete, lightweight concrete

VALUE BASE

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

FURTHER DOCUMENTS

- Installation instructions: Sarnafil® TG Type Systems For Fully Bonded For Exposed Roofs

LIMITATIONS

Installation work must only be carried out by Sika trained and approved contractors, experienced in this type of application.

- Do not apply to wet, damp or unclean surfaces
- Ensure Sarnafil® TG 76-15 E Felt PS is prevented from direct contact with incompatible materials (refer to compatibility section).
- Sarnafil® TG 76-15 E Felt PS must only be applied to compatible substrates (refer to compatibility section).
- The use of Sarnafil® TG 76-15 E Felt PS membrane is

limited to geographical locations with average monthly minimum temperatures of -50 °C. Permanent ambient temperature during use is limited to +50 °C.

- The use of some ancillary products such as adhesives, cleaners and solvents is limited to temperatures above +5 °C. Observe temperature limitations in the appropriate Product Data Sheets.
- Special measures may be compulsory for installation below +5 °C ambient temperature due to safety requirements in accordance with national regulations.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

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).

APPLICATION INSTRUCTIONS

EQUIPMENT

Hot welding overlap seams

Electric hot air welding equipment, such as hand held manual hot air welding equipment and pressure rollers or automatic hot air welding machines with controlled hot air temperature capability of a minimum +600 °C.

Recommended type of equipment:

- Manual: Leister Triac
- Automatic : Sarnamatic 681
- Semi-automatic: Leister Triac Drive

SUBSTRATE QUALITY

The supporting structure must be of sufficient structural strength to apply all new and existing layers of the roof build-up. Complete roof system must be designed and secured against wind uplift loadings. The substrate must be smooth and free of any sharp protrusions or burrs, etc. compatible with the membrane, clean, damp (No standing water) and free of grease and dust. Loose chippings, mineral granules, sand etc. must be removed. Existing bitumen roof waterproofing must be repaired if damaged.

APPLICATION METHOD / TOOLS

Installation procedure

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Reference must be made to the Installation instructions: Sarnafil® TG Type Systems For Fully Bonded For Exposed Roofs.

Fully bonded roof surfaces and detailing

The membrane is bonded to the substrate and flashings by using Sarnacol® 2142S adhesive.

Hot welding overlap seams

Overlap seams must be welded by electric hot welding equipment. 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 conditions prior to welding. The effective width of welded overlaps by hot air must be a minimum 20 mm.

Butt joints must be covered with a Sarnafil® TG 66-15 cover strip welded on either side.

Testing overlap seams

The seams must be mechanically tested with screwdriver (rounded edges) to ensure the integrity/completion of the weld. Any imperfections must be rectified by hot air welding.

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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