

# Sarnafil® G 445-13

## Protection sheet

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**Product Description** Sarnafil® G 445-13 is a protection sheet based on polyvinyl chloride (PVC) with inlay of glass non-woven containing flame retardant.

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**Uses** Sarnafil® G 445-13 is used as a protection layer on top of Sarnafil® G roof waterproofing membrane in ballasted flat roof systems.

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**Characteristics / Advantages**

- Easy and safe application
- Excellent weldability
- Good mechanical strength
- Recyclable

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### Tests

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**Approvals / Standards**

- Reaction to fire according to EN 13501-1
- Quality management system EN ISO 9001/14001

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### Product Data

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#### Form

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**Appearance**

Surface:	smooth
Colour top surface:	beige
Colour bottom surface:	dark grey

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**Packaging:**

Packing unit:	26 rolls per pallet
Roll length:	15.00 m
Roll width:	2.00 m
Roll weight:	51.00 kg

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#### Storage

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**Storage Conditions** Sarnafil® G 445-13 rolls must be stored in a horizontal position on pallet and protected from direct sunlight, rain and snow.

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**Shelf-Life** Sarnafil® G 445-13 does not expire during correct storage.

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Roofing



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## Technical Data

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<b>Material Basis</b>	Polyvinyl chloride (PVC)	
<b>Length</b>	15.00 m	
<b>Width</b>	2.00 m	
<b>Thickness</b>	1.3 mm (-5 / +10 %)	EN 1849-2
<b>Mass per unit area</b>	1.7 kg/m <sup>2</sup> (-5 / +10 %)	EN 1849-2
<b>Reaction to fire</b>	E	EN 11925-2, classification to EN 13501-1
<b>Tensile stress:</b>	≥ 10 N/mm <sup>2</sup>	EN 12311-2
<b>Elongation:</b>	≥ 130 %	EN 12311-2
<b>Water vapour transmission properties:</b>	μ 13000	EN 1931
<b>Resistance to impact:</b>	≥ 750 mm	EN 12691
<b>Resistance to root penetration</b>	Pass	EN 13948
<b>Foldability at low temperature:</b>	≥ -20 °C	EN 495-5

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## System Information

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<b>System Structure</b>	Ancillary products:	- Sarnacol® 2170
	Compatible products:	- All types of Sarnafil® G/S membranes

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## Application Conditions / Limits

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<b>Resistance</b>	Not applicable for permanent exposure to UV irradiation. Not suitable as a primary waterproofing membrane. Not compatible with direct contact to other plastics, e.g. EPS, XPS, PIR or PF. Not resistant to tar, bitumen, oil and solvent containing materials.
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## Installation Instructions

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<b>Application Method</b>	Sarnafil® G 445-13 protection sheets are loosely laid with the jointing method chosen according to the expected stresses:
	Low stresses: Overlap the sheets by 50 mm and adhere with Sarnacol® 2170.
	High stresses: Overlap the sheets by 80 mm and hot air weld with a hand welder or the Sarnamatic automatic welder.

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<b>Notes on Installation / Limits</b>	Installation works must be carried out only by Registered Sarnafil Contractors.
	Temperature limits for the installation of the Sarnafil® G 445-13:
	Substrate temperature: -30 °C min. / +60 °C max. Ambient temperature: -20 °C min. / +60 °C max.
	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.

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# Roofing

<b>Value Base</b>	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.
<b>Local Restrictions</b>	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.
<b>Ecology, Health and Safety Information</b>	The product does not fall within the EC-regulation of hazardous goods. As a result, a material safety data sheet following EC-Guideline 91/155 EWG is not needed to bring the product to the market, transport or use it. The product does not damage the environment when used as specified.
<b>Protective Measures</b>	Fresh air ventilation must be ensured, when working (welding) in closed rooms. Regulatory safety requirements must be observed.
<b>Transportation Class</b>	The product is not classified as hazardous good for transport.
<b>Disposal</b>	The material is recyclable. Any disposal must be according to regulatory requirements.

All data in our product information are based on our current knowledge and experience. They do not release users from careful testing of the application and strict observation of the relevant processing regulations because of the wide range of possible influences during the application and use of our products. Legally valid assurances of specific characteristics or suitability for special purposes of application other than those provided in our documentation for the specific product cannot be inferred from our information. Any protective rights or existing laws and provisions must be followed by the recipient or processor of our products at their own responsibility. Moreover our general terms and conditions of sale and guarantee are valid.



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