

## Sika-Trocal® SGK 1.2 mm

### Polymeric membrane for roof waterproofing

<b>Product Description</b>	Sika-Trocal® SGK 1.2 mm is a multi-layer, synthetic roof waterproofing sheet based on premium-quality polyvinyl chloride (PVC) with inlay of glass non-woven and polyester fleece backing according to EN 13956.
<b>Uses</b>	Roof waterproofing membrane for exposed flat roofs: <ul style="list-style-type: none"><li>■ Partially adhered by Sika-Trocal® C 300 adhesive.</li><li>■ Loose laid and mechanically fastened.</li></ul>
<b>Characteristics / Advantages</b>	<ul style="list-style-type: none"><li>■ Outstanding resistance to weathering, including permanent UV irradiation</li><li>■ High resistance to ageing</li><li>■ High resistance to hailstones</li><li>■ Resistant to all common environmental influences</li><li>■ High resistance to mechanical influences</li><li>■ High tensile strength</li><li>■ High dimensional stability</li><li>■ Excellent flexibility in cold temperatures</li><li>■ High water vapour permeability</li><li>■ Outstanding weldability</li><li>■ Optimised adhesion to substrate by polyester fleece backing</li><li>■ Polyester backing provides separation to bitumen surfaces</li><li>■ Recyclable</li></ul>
<b>Approval / Standards</b>	<ul style="list-style-type: none"><li>■ Polymeric sheets for roof waterproofing according to EN 13956, certified by notified body 1213-CPD-4125 and provided with the CE-mark.</li><li>■ Reaction to fire according to EN 13501-1.</li><li>■ External fire performance tested according to ENV 1187 and classified according to EN 13501-5: BROOF(t1) and BROOF(t3).</li><li>■ Official Quality Approvals and Agreement Certificates and approvals.</li><li>■ Monitoring and assessment by approved laboratories.</li><li>■ Quality Management system in accordance with EN ISO 9001/14001.</li><li>■ Production according to Responsible Care policy of Chemical Industry.</li></ul>



<b>Appearance / Colours</b>	Surface:	slightly structured
	Colours:	
	Top surface:	light grey (nearest RAL 7047) slate grey (nearest RAL 7015)
	Bottom surface:	dark grey
	Top surface of sheet in other colours available on request, subject to minimum order quantities.	
<b>Packaging</b>	Packing unit:	see price list
	Roll length:	20.00 m
	Roll width:	2.00 m
	Roll weight:	65.20 kg
<b>Storage Conditions / Shelf-Life</b>	Rolls must be stored in a horizontal position on pallet and protected from direct sunlight, rain and snow. Product does not expire during correct storage.	
	Do not stack pallets of rolls during transport or storage.	

## Technical Data

<b>Product Declaration</b>	EN 13956	
<b>Visible defects</b>	Pass	EN 1850-2
<b>Length</b>	20.00 m (- 0 % / + 5 %)	EN 1848-2
<b>Width</b>	2.00 m (- 0.5 % / + 1 %)	EN 1848-2
<b>Straightness</b>	≤ 30 mm	EN 1848-2
<b>Flatness</b>	≤ 10 mm	EN 1848-2
<b>Effective thickness</b>	1.2 mm (- 5 % / + 10 %)	EN 1849-2
<b>Mass per unit area</b>	1.63 kg/m <sup>2</sup> (- 5 % / + 10 %)	EN 1849-2
<b>Water tightness</b>	Pass	EN 1928
<b>Effects of liquid chemicals, including water</b>	On request	EN 1847
<b>External fire performance Part 1-4</b>	BROOF(t1)<20°, BROOF(t3) <10°/<70°	EN 13501-5
<b>Reaction to fire</b>	E	EN ISO 11925-2, classification to EN 13501-1
<b>Hail resistance</b>		EN 13583
<b>rigid substrate</b>	≥ 17 m/s	
<b>flexible substrate</b>	≥ 25 m/s	
<b>Joint peel resistance</b>	≥ 300 N/50 mm	EN 12316-2
<b>Joint shear resistance</b>	≥ 500 N/50 mm	EN 12317-2
<b>Water vapour transmission properties</b>	μ = 20'000	EN 1931
<b>Tensile strength</b>		EN 12311-2
<b>longitudinal (md)<sup>1)</sup></b>	≥ 600 N/50 mm	
<b>transversal (cmd)<sup>2)</sup></b>	≥ 600 N/50 mm	
<b>Elongation</b>		EN 12311-2
<b>longitudinal (md)<sup>1)</sup></b>	≥ 50 %	
<b>transversal (cmd)<sup>2)</sup></b>	≥ 50 %	
<b>Resistance to impact</b>		EN 12691
<b>hard substrate</b>	≥ 500 mm	
<b>soft substrate</b>	≥ 1250 mm	
<b>Tear strength</b>		EN 12310-2
<b>longitudinal (md)<sup>1)</sup></b>	≥ 150 N	
<b>transversal (cmd)<sup>2)</sup></b>	≥ 150 N	
<b>Dimension stability</b>		EN 1107-2
<b>longitudinal (md)<sup>1)</sup></b>	≤ 0.3 %	
<b>transversal (cmd)<sup>2)</sup></b>	≤ 0.3 %	
<b>Foldability at low temperature</b>	≤ -25 °C	EN 495-5
<b>UV exposure</b>	Pass (> 5'000 h / grade 0)	EN 1297

<sup>1)</sup> md = machine direction

<sup>2)</sup> cmd = cross machine direction

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## System Information

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### System Structure

Ancillary products according to local price list:

- Sika-Trocal® S 1.5 unreinforced sheet for detailing.
  - Sika-Trocal® SG 1.5 roofing sheet for strips.
  - Moulded corner pieces, prefabricated corners and pipe flashings
  - Sika-Trocal® Metal Sheet Type S
  - Sika-Trocal® Cleaner L 100
  - Sika-Trocal® Welding Agent
  - Sika-Trocal® Seam Sealant
  - Sika-Trocal® C 300 (One-component PU adhesive for surface bonding)
  - Sika-Trocal® C 733 (Contact adhesive)
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### Application Details

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#### Substrate Quality

The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc.

In case of adhesion by Sika-Trocal® C 300, all layers of the built-up and substrate must be secured against wind uplift.

The Polyester fleece laminated to Sika-Trocal® SGK underside separates sufficiently from any incompatible substrate. It prevents from direct contact to bitumen or plastic material, e.g. expanded polystyrene (EPS), extruded polystyrene (XPS), polyurethane (PUR), polyisocyanurate (PIR) or phenolic foam (PF) for compatibility in the built-up.

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### Application Conditions / Limits

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#### Temperature

The use of Sika-Trocal® SGK membranes is limited to geographical locations with average monthly minimum temperatures of -25 °C.  
Permanent ambient temperature during use is limited to +50 °C.

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#### Compatibility

The PVC compound is not compatible with direct contact to other plastics, e.g. EPS, XPS, PUR, PIR or PF.

The PVC compound is not resistant to tar, bitumen, oil and solvent containing materials.

Compatibility to bitumen or plastic surfaces below the membrane is achieved by incorporated Polyester fleece backing.

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## Installation Instructions

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### Installation Method / Tools

#### Installation procedure:

According to the valid installation instructions of manufacturer for Sika-Trocal® SGK types for adhered system.

#### Fixing Method:

Partially adhered by Sika-Trocal® C 300 adhesive.

Adhesive is applied to substrate in strips out of the container and spread into thin film by squeegee. The sheet is rolled out into adhesive bed to bond instantly to the Polyester fleece surface. The roof perimeter is mechanically fixed by Sika-Trocal® Metal Sheet Type S profile to create a peel stop or as otherwise indicated in the appropriate application guide

#### Welding Method:

Overlap seams are welded by electric hot welding equipment, such as manual hot air welding machines and pressure rollers or automatic hot air welding machines with controlled hot air temperature capability

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 should be minimum 20mm.

If local weather conditions allow cold welding of sheet overlaps with Sika-Trocal® Welding Agent, it is permitted for Sika-Trocal® SGK system for exposed roofs. The effective width of welded overlap by cold welding must be 30 mm.

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

Edges must be sealed by Sika-Trocal® Seam Sealant.

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### Notes on Installation / Limits

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

Temperature limits for the installation of the membrane:

Substrate temperature:    -25 °C min. / +60 °C max. for hot air welding  
  +5 °C min. / +60 °C max. for cold welding

Ambient temperature:    -15 °C min. / +60 °C max. for hot air welding  
  +5 °C min. / +60 °C max. for cold welding

Installation of some ancillary products, e.g. contact adhesives/thinners is limited to temperatures above +5 °C. Please refer to the respective 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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<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>	A Safety Data Sheet following EC-Regulation 1907/2006, Article 31 is not needed to bring the product to the market, to transport or to 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. Local safety regulations must be observed.
<b>Transportation Class</b>	The product is not classified as hazardous good for transport.
<b>Disposal</b>	The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

**Legal note:** 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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