

## Product Data Sheet

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Sika-Trocal<sup>®</sup> Metal Sheet Type S

# Sika-Trocal<sup>®</sup> Metal Sheet Type S

## Metal sheets and coils laminated with Sikaplan<sup>®</sup> PVC roof waterproofing membrane

### Product Description

Sika-Trocal<sup>®</sup> Metal Sheet Type S is a galvanised steel sheet laminated with 0.8 mm Sikaplan<sup>®</sup> S top surface membrane based on premium quality Polyvinylchlorid (PVC). Bottom surface is coated with grey lacquer for transport protection.

### Uses

Production of profiles for perimeter flashings, junctions, fastening and anchorage for all Sikaplan<sup>®</sup> PVC roof waterproofing membranes.

### Characteristics / Advantages

- Outstanding resistance to weathering; including permanent UV irradiation
- Resistant against common environmental influences
- Durable adhesion of top surface laminate to metal sheet
- Sikaplan<sup>®</sup> PVC waterproofing membranes can be welded to top surface laminate by hot air or solvent welding.
- Sika-Trocal<sup>®</sup> Metal Sheet can be cut and folded as any other zinc- or galvanised metal sheets

### Tests

#### Approvals / Standards

- Complies with EN 10346 – galvanised steel sheets
- Quality management system EN ISO 9001/14001

### Product Data

#### Form

#### Appearance

Surface:	Smooth
Thickness:	Sikaplan <sup>®</sup> laminate: 0.8 mm
	Galvanised metal: 0.6 mm
	Total: 1.4 mm

#### Colour

Top surface :	light grey, slate grey
Bottom surface:	grey

Construction



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**Packaging**

## Sika-Trocal® Metal Sheet Type S

- packing unit 30 sheets per pallet
  - length 2.00 m
  - width 1.00 m
  - weight 5.75 kg/m<sup>2</sup>
  - weight per sheet 11.50 kg
- packing unit 30 sheets per pallet
  - length 3.00 m
  - width 1.00 m
  - weight 5.75 kg/m<sup>2</sup>
  - weight per sheet 17.25 kg

## Sika-Trocal® Metal Coil Type S

- packing unit 1 coil per pallet
    - length 300.00 m
    - width 1.00 m
    - weight 5.75 kg/ m<sup>2</sup>
    - weight per coil 1725.00 kg
  - packing unit 4 coils per pallet
    - length 30.00 m
    - width 1.00 m
    - weight 5.75 kg/m<sup>2</sup>
    - weight per coil 172.50 kg
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**Storage****Storage Conditions/  
Shelf-Life**

Sika-Trocal® Metal sheets shall be stored in horizontal position, protected against sunlight, rainfall and snow. Do not stack more than two palettes. Product does not expire during correct storage.

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**Technical Data****Material Basis**

Top layer: premium quality homogeneous PVC  
Bottom layer: galvanised steel (quality DX51D Z275), coated with lacquer for transport protection

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**System  
Information****System Structure**

Compatible products:

- Sikaplan® G
- Sikaplan® S
- Sikaplan® SG
- Sikaplan® SGK
- Sikaplan® SgmA
- Sikaplan® 18 D

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**Application  
Conditions / Limits****Temperature**

The use of Sika-Trocal® Metal Sheet Type S is limited to geographical locations with average monthly minimum temperatures of -30 °C. Permanent ambient temperature during use is limited to +50 °C.

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**Compatibility**

Top surface is not resistant against tar, bitumen, oil and solvent containing media.

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## Installation Instructions

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### Installation Procedure

Based on the valid installation instructions for the relevant Sikaplan® roof waterproofing membrane.

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### Installation Method / Tools

Sika-Trocal® Metal Sheet may be cut and folded with commonly used tools for metal sheet works. Standard construction rules must be observed.

#### Cutting and bending:

The cutting tools must be in properly grinded condition.

Blunt blades will crush and tear the top surface laminate, which can cause undesirable edge delamination.

Keep necessary width of die clearance in any case (~ 0.04 mm).

The starting to cut the Sika-Trocal® Metal Sheet shall be from the reverse side.

All cutting fines and teeth's shall be removed.

Folding Sika-Trocal® Metal Sheets to profiled shape, the bending radius shall be 2 to 3 times of the flashing thickness (1.4 mm to 1.8 mm).

Excessive edge pressure can damage the coating.

#### Fixing of Metal Sheets:

Countersunk and stainless steel screws or spikes shall be used to fix Sika-Trocal® Metal Sheet profiles.

Spacing between fixing centres depends upon the mechanical stresses likely to occur.

The min. fixing distances, as specified in installation instructions shall be observed.

To avoid possible damage to the membrane caused by the screw head, patches of membrane are recommended to weld over each screw head.

#### Jointing of Fixed Metal Sheets:

The Sika-Trocal® Metal Sheet or profile elements shall be positioned and fixed in such a way to keep a gap between each element of 4 mm to 5 mm as expansion opening.

A shelf adhesive tape in width of 30 mm to 40 mm shall be applied over the expansion opening to cover each profile end.

Each side of the joint shall then be waterproofed by welding of an unreinforced PVC sheet strap in width of 100 mm, prior to the installation of Sikaplan® PVC waterproofing membrane area.

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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: -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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<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>REACH</b>	<p><b>European Community Regulation on chemicals and their safe use (REACH: EC 1907/2006)</b></p> <p>This product is an article within the meaning 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. Therefore, there are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation.</p> <p>Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w).</p>
<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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