TRAPEZ 2

SL Rack
Schletter Ludwig

Trapez 2
Item no. 13202-01

Your advantages with our products

- Simplest attachment method for a railbased system on trapezoidal sheet metal roofs
- Fits bottom channel of any RAIL
- Pre-installed EPDM rubber is UV-resistant and ensures water-sealing of the attachment
- Always mount in pairs facing each other
- Optional: Potential-Equalization Plate
- Self-tapping screws incl. EPDM sealing washer available separately
- Material: stainless steel, EPDM rubber

*Our warranty conditions apply.
They are available at www.sl-rack.de

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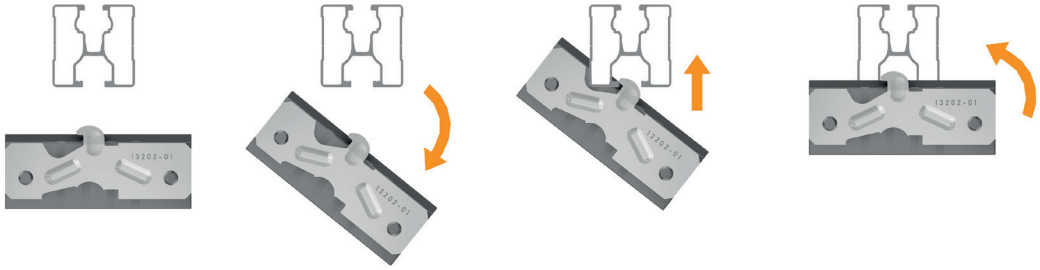
Installation

Please note: according to DIN EN 1990-4:2018 para. 5.5.1. a minimum sheet metal thickness of 0.75 mm is required for the load-bearing layer, unless the trapezoidal sheet metal manufacturer obtained a general approval from the building authority that allows lower sheet thicknesses. Please verify!

1. Insert Trapez 2 into the bottom rail channel.

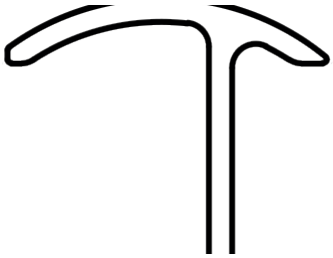


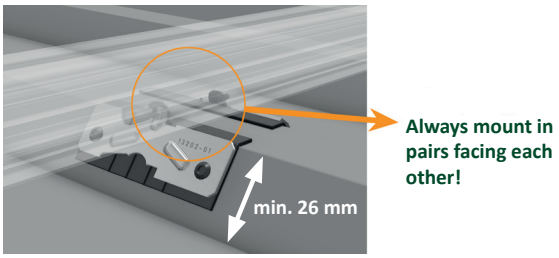
2. Place the rail with the attached Trapez 2 elements onto the ribs. The steel or aluminum sheet has to have a minimum thickness of 0.5 mm. Now press the element onto the flank of the rib, which has to have a min. height of 26 mm.

   The angle of inclination of the flank should lie between 8-45°.

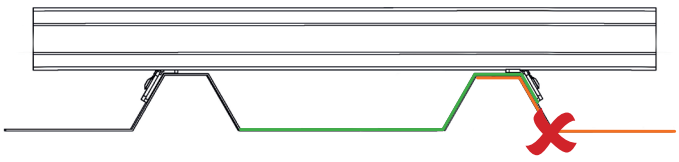
   We recommend placing individual pieces of rubber underneath the rail, where it lays on top of the rib to prevent chafing of the coating of the metal sheet due to thermal expansion.

   Please ensure that the rail connectors are not positioned on a rib.

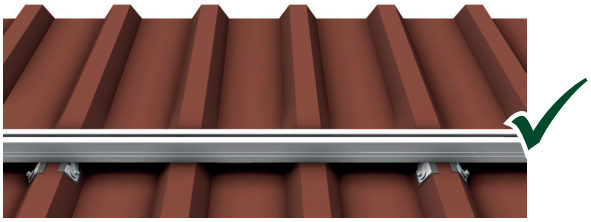




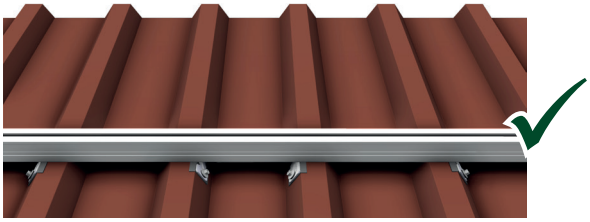
3. Trapez 2 should not be installed where two trapezoidal sheets are joining. However, if this can not be avoided by moving to the flank of the adjacent rib, an additional screw on the top of the rib, where the 2 sheets join, needs to be installed, to ensure proper water-sealing.



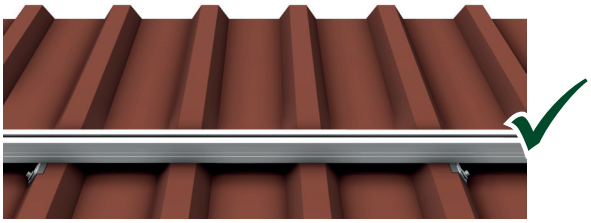
The attachments should always be positioned symmetrically.



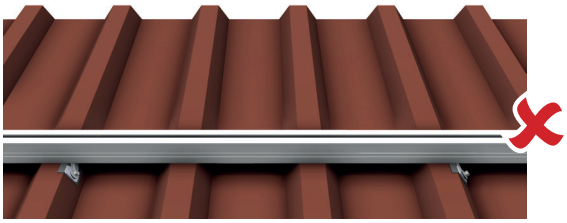
In pairs on the flanks of one rib



In pairs on the flanks of adjoining ribs

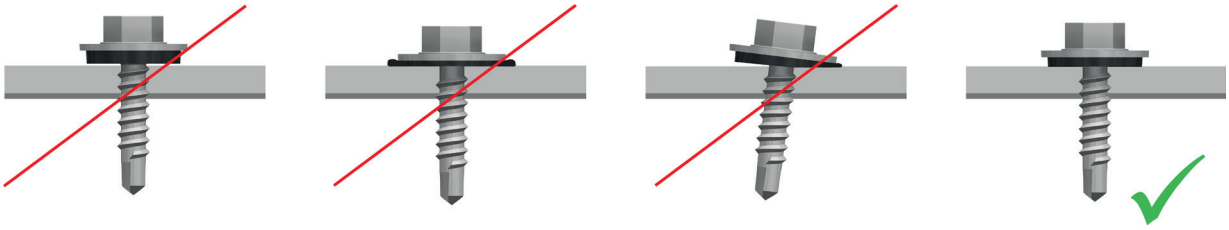


Individual on flanks of ribs further apart, pointing in opposite directions.



It is essential to avoid mounting several Trapeze 2 on flanks pointing in the same direction.

4. Place the seperately available self-drilling screw incl. EPDM sealing washer exactly at a 90° angle to the flank and fixate it with a tightening torque of 2 Nm with a cordless screw driver with depth stop. This is the only way to ensure a water-sealing connection through the pre-installed EPDM rubber strip on the bottom. Pay special attention to the sealing washer. The screw must not be tightened either too loosely, nor too tightly, so that the sealing washer can perform its function optimally. Incorrect tightening can quickly lead to leaks.



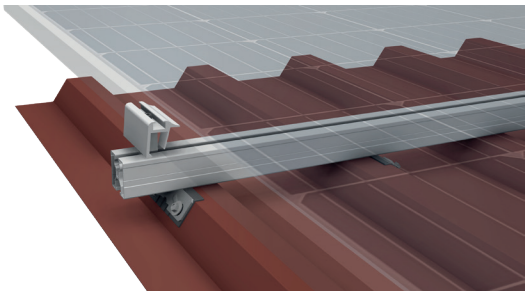
too loose | too tight | oblique | correct

Note:
Once the screw has been installed, it must not be loosened and screwed into the same hole again.

In order for compression forces to be transferred, the Trapez 2 element must pull the rail onto the sheet metal when being fixated with the screws.

5. Place the module onto the rail and press the claw of the end clamp into the rail channel. Now fixate the end clamp with Torx 40 with a tightening torque of 6 Nm.

6. Use mid clamps between the modules and also fixate them with a tightening torque of 6 Nm. Finalize the row of modules in portrait orientation with an end clamp.



Accessories

Item no.

93155-25 **Self-tapping screw 5.5 x 20-25, sealing washer Ø 16 mm**

Drilling capacity steel..... 0.5 mm - 2.0 mm
Drilling capacity aluminum..... 0.5 mm - 2.0 mm
Packaging unit (PU)..... 100 pieces

93160-25 **Self-tapping screw 6.0 x 25-25, sealing washer Ø 16 mm**

Drilling capacity steel..... 0.4 mm - 2.0 mm
Drilling capacity aluminum..... 0.5 mm - 2.0 mm
Packaging unit (PU).....100 pieces

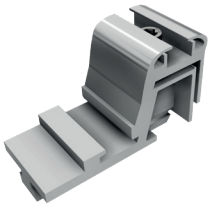
93161-25 **PREMIUM Self-tapping screw 6.0 x 25, sealing washer Ø 16 mm**

Drilling capacity steel.....0.5 mm - 1.5 mm
Drilling capacity aluminum.....0.4 mm - 2.0 mm
Packaging unit (PU).....100 pieces

93155-26 **Self-drilling screw 5.5 x 25, sealing washer Ø 16 mm**

Drilling capacity steel..... 0.4 mm - 1.5 mm
Drilling capacity aluminum..... 0.4 mm - 5.0 mm
Packaging unit (PU)..... 100 pieces

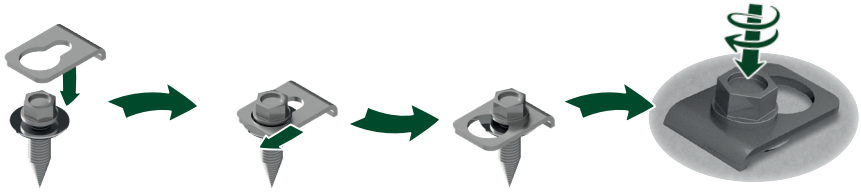
Beware of metal swarf on the roof!



91202-00 **Cross Connector**

93201-00 **Potential Equalization Plate**

The Potential Equalization Plate transfers the potential of the system/modules to the trapezoidal roof, provided that the trapezoidal sheet metal roof is already grounded. The Potential Equalization Plate has to be placed between the screw head and the sealing washer.



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Technical Data

Material	Stainless steel, EPDM rubber (sealing)
Design Tool	SL-Rack-Configurator **Solar.Pro.Tool.**
Statik	The statics calculation takes place as per the current country-specific standards (EN 1991, EC1 for Germany). Depending on snow or wind loads or for large modules, it may be necessary to use more than the standard 4 attachment points. Please make sure to comply with the instructions of the module manufacturer contained in the installation manual. We do not assess the load-bearing capacity of the roof.

Your opinion is important to us!

We want to make your everyday work easier.
Your praise, criticism and suggestions for improvement help us to do this. We look forward to your feedback.

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