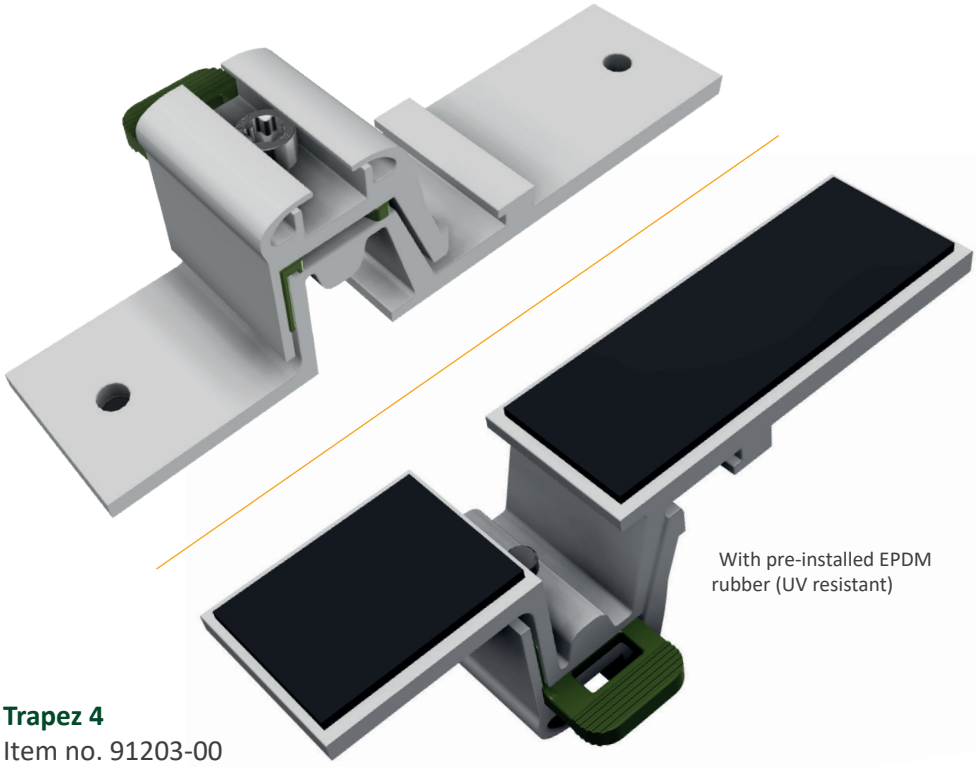
TRAPEZ 4

SL Rack
Schletter Ludwig



With pre-installed EPDM rubber (UV resistant)

Trapez 4
Item no. 91203-00

Your advantages with our products

- Convenient and time-saving installation from the top
- Installation on top of the rib ensures best accessibility and greatest possible distance from the waterbearing layer
- Integrated plastic spacer offers the option of a sliding connection of the rail to accommodate thermal expansion
- Due to the increased contact area, higher forces can be transferred via the trapezoidal sheet
- Optional: Potential Equalization Plate
- Pre-installed EPDM rubber is UV resistant and ensures water-sealing of the attachment
- Self-tapping screws incl. EPDM sealing washer available separately
- Material: Aluminum, EPDM rubber, plastic

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

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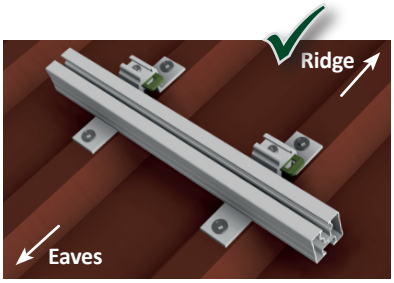
Installation

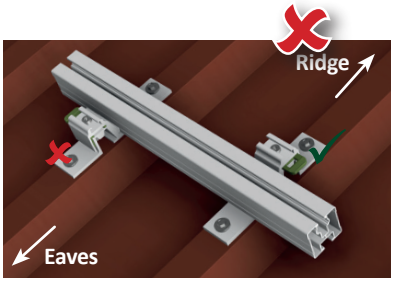
Please note: according to DIN EN 1990-4:2018 para. 5.5.1. a minimum sheet metal thickness of 0.75 mm is required for the load-bearing layer, unless the trapezoidal sheet metal manufacturer obtained a general approval from the building authority that allows lower sheet thicknesses. Please verify!

1. Place Trapez 4 on top of the rib and center it. The clamps should always face towards the ridge.

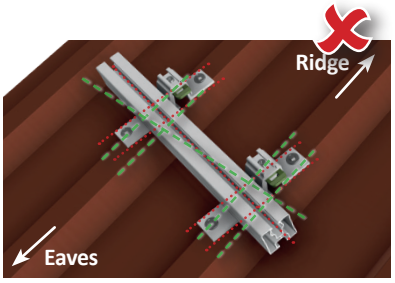
   The attachments should always be positioned symmetrically.



Use at least 2 Trapez 4 attachments per RAIL and follow the instructions in the structural report. Ensure the clamps are facing towards the ridge.

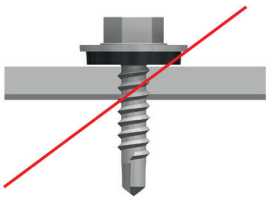


The clamps always have to face in the same direction (ridge).

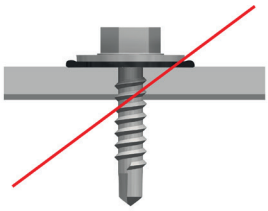


Always mount Trapez 4 parallel so that the RAILs run perpenticular to the ridge.

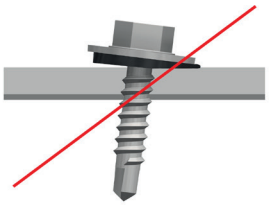
2. Place the seperately available self-drilling screw incl. EPDM sealing washer exactly at a 90° angle to the rib and fixate it with a tightening torque of 2 Nm with a cordless screw driver with depth stop.
   This is the only way to ensure a water-sealing connection through the pre-installed EPDM rubber 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.



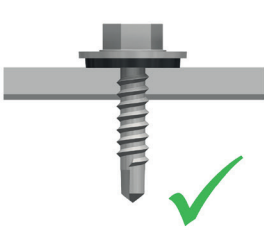
too loose



too tight

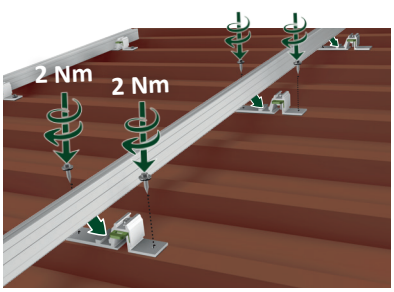


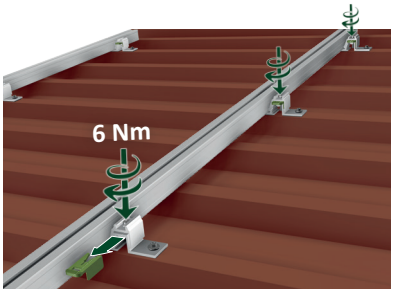
oblique



correct

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

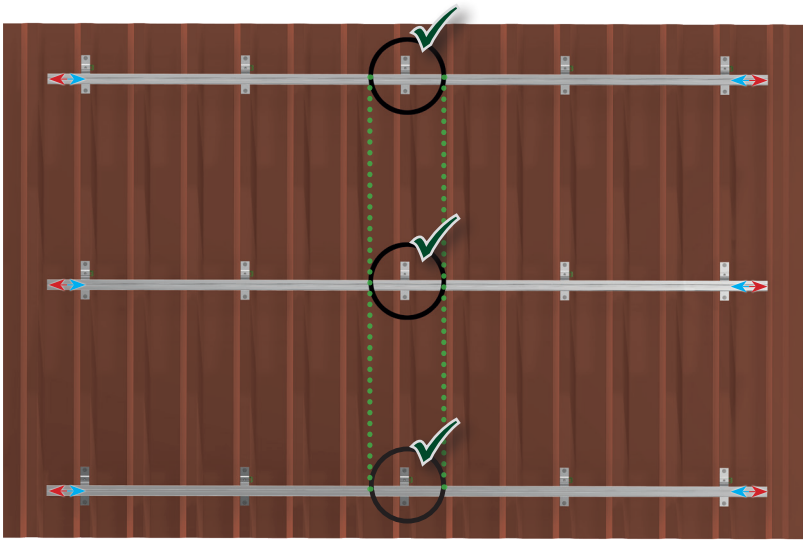




3. Lay the RAIL down and press it in, so that the claw hooks into the bottom rail channel. Fixate the bolt at the head of Trapez 4 with Torx 40 with a tightening torque of 6 Nm. The minimum number of Trapez 4 connectors per rail is stated in the structural report.

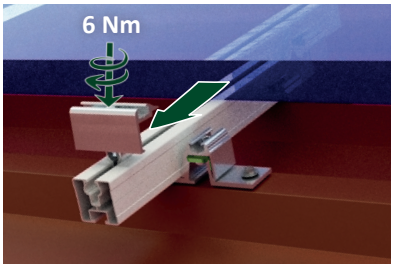
4. The green plastic spacers allow the system to slide. By removing the spacer the rail will be fixated.

5. We want a combination of both. The rail should be fixed in the middle and allowed to slide to the left and right at the same time, so that the linear expansions between rail, trapezoidal roof and substructure can be compensated.



✓ Always remove the middle spacer from each RAIL. Ensure that the Trapez 4 attachments without the spacer are in a line.

6. 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.



7. 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.

8. In case landscape orientation is required, a cross-rail system is necessary. It can be built with the use of additional cross connectors and continuous rails.

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

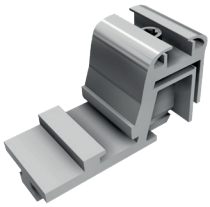
93161-25 **PREMIUM Self-tapping screw 6.0 x 25, sealing washer Ø 16 mm**

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

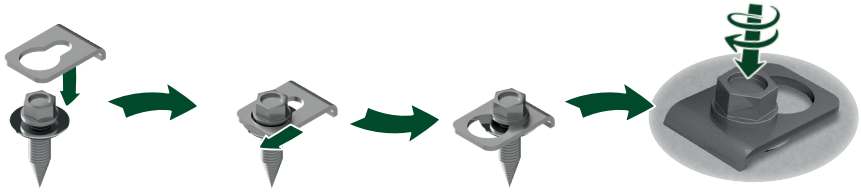
Beware of metal swarf on the roof!



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	Aluminum, EPDM rubber (sealing), plastic (spacer)
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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Version 05/2024 V10