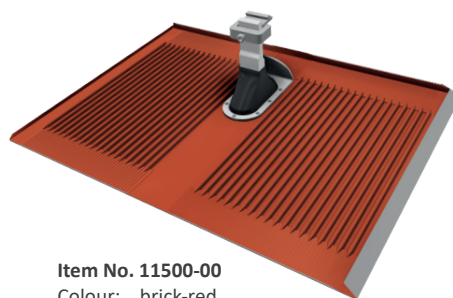**SL Rack**

Schletter Ludwig

FOR **CONCRETE ROOF TILES**

UNIQUE ON THE MARKET

How you will benefit from our products

» Universal replacement plate for **nearly** all types of roofing tile

» Up to 60% reduction in roof connections and assembly materials

» Suitable for high snow load (up to 1,500 kg)

» Simplified warehousing

» No mechanical cutting needed

» Min rafter width from 36 mm with 6 mm wood screws or from 48 mm with 8 mm wood screws

» RAILS can be height-adjusted thanks to pre-mounted clamp combination (for vertical rail installation, exchange with optional vertical clamp combination, item No. 11105-05)

» Tried and tested rapid attachment system for rails

» Just one tool needed: Torx TX40

» Sealed by a riveted-on rubber collar in UV-resistant EPDM and raised edges to the plate

» The recesses between the corrugations create areas of reduced wind, meaning water flows longitudinally downwards

» With integrated snow and ice repeller

» Installation with a single layer of battens or with crossbars

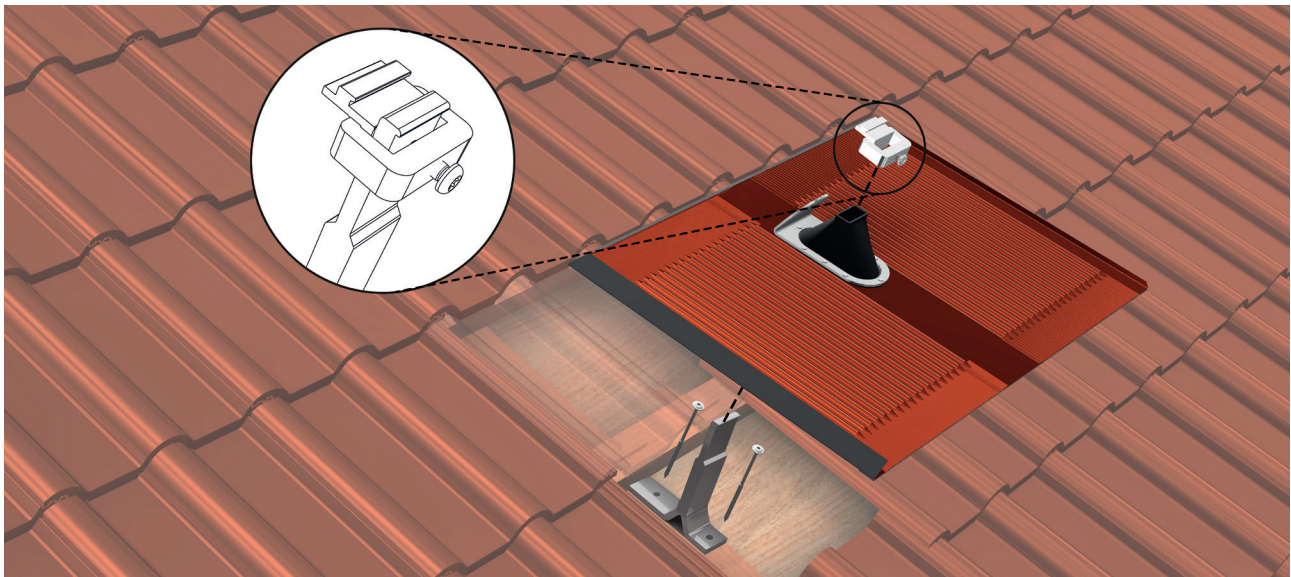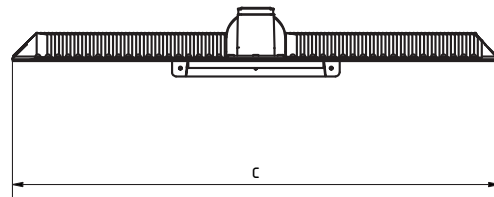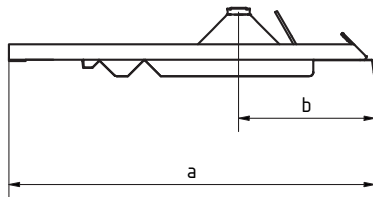**Item No. 11500-00**
Colour: brick-red
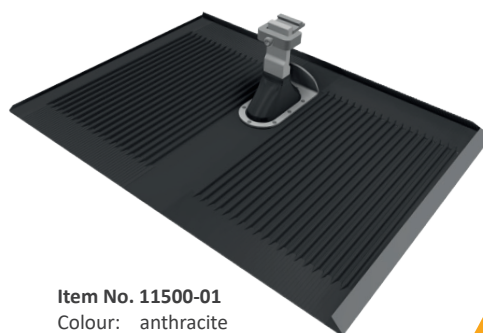
Item No. 11500-01
Colour: anthracite

Durability 10 Years Warranty*

*Our warranty conditions apply. These can be viewed at any time online at **www.sl-rack.de**

SL Rack GmbH | 83527 Haag i. OB | Phone: +49 8072 3767-0 | sales@sl-rack.com | www.sl-rack.com

Dimensions

|	a	b	c
Alpha-Plate	approx. 457 mm	approx. 152 mm	approx. 586 mm

So your roof mounts sit perfectly: Check for suitability before installation!

» Minimum inclination of the Alpha plate 12 %

» To ensure a seal, the roof tiles need to be dry and free from dirt during installation

» **The tile gauge should not be longer than the Alpha plate (see dimensions, dimension a).**

» **Roofing sheets with locking pyramids underneath and extremely pronounced corrugation / waves are not compatible**

» **Pooling water is to be avoided: The attachment lugs of overlying tiles may need to be removed**

» Alpha plates may not be installed **directly** on top of each other

» Special approval on consultation

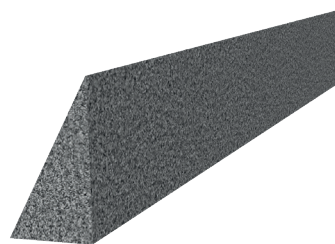» For questions about tiles, visit sales@sl-rack.de

Accessories

» **Alpha-Flex 120**
Item No. 11512-00

- Mounting plate of the bracket
- Lateral displacement of the bracket for correction
- Additional mount for grounding
- Incl. Alpha-Flex bracket fixture
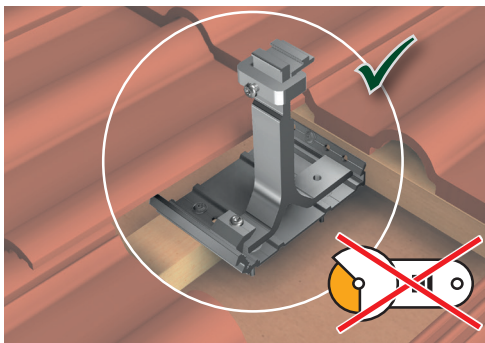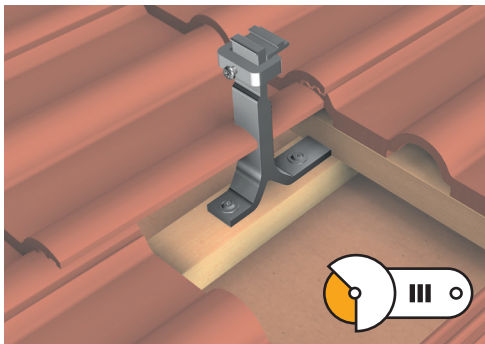
» **Foam wedge**
Item No. 97401-00

- optional component for extreme brick variants for rodent protection
- Self-adhesive full foam strip
- Malleable structure
- Made of rot-proof net foam

» **Alpha-Flex 2000**
Item No. 11501-2000

- Spans up to two rafters (if they have no clean area to attach the bracket or mounting plate)
- Better load distribution through the use of several brackets
- Lateral displacement of the bracket for correction
- Additional mount for grounding

Optional vertical clamp combination
Item No. 11105-05
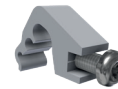
Optional equipotential bonding terminal for SL Alu and Alpha-Flex
Item No. 11101-20

Optional Alpha-Flex 120 mounting plate incl. bracket fixture
Item No. 11512-00

Optional Alpha-Flex bracket fixture
Item No. 11501-02

Optional foam wedge for Alpha-Plate
Item No. 97401-00

Optional rafter-spanning strip Alpha-Flex 2000
Item No. 11501-2000

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**Alpha plate
assembly video**

Assembly procedure

1 Remove the roofing at the area of installation (max. 3 tiles) and place the outer sections...

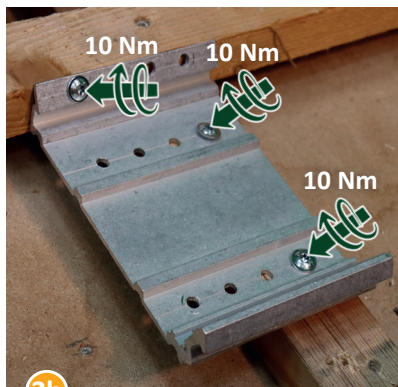**2** ...below the upper row so that the horizontal battens can be easily viewed and worked on.

3a With the long member upwards, place the bracket on the roofing batten (batten aids in orientation).

4a Attach the batten: fix in position by tightening the screws (min. 2 screws, 10 Nm).
Jump forward to step 10.

ALTERNATIVE ATTACHMENT WITH THE ALPHA-FLEX

3b Position the Alpha-Flex with the slot upwards. Arrange it on the roofing batten so it sticks out to left or right and attach (min. 3 screws, 10 Nm).

4b With the long member upwards, hook the bracket onto the upper slot of the Alpha-Flex.

5b Hook the Alpha-Flex bracket fixture...

6b ...and arrange it centrally over the bracket.
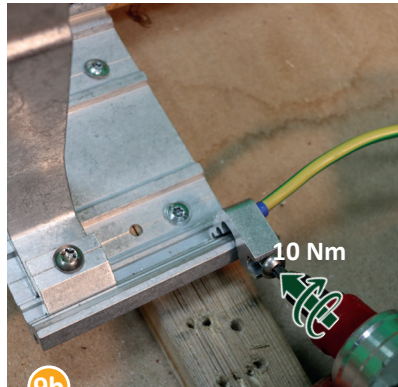

7b Fix it in place by tightening the screw (10 Nm).
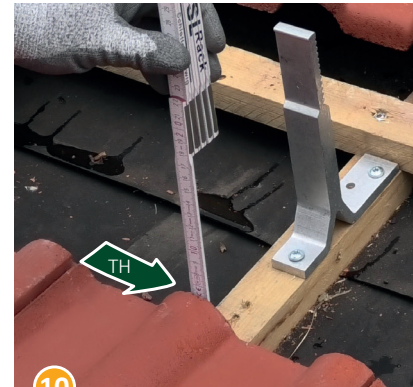
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Assembly procedure

8b *Optional:* hook the equipotential bonding clamp onto the bottom of the Alpha-Flex and fold it forwards.
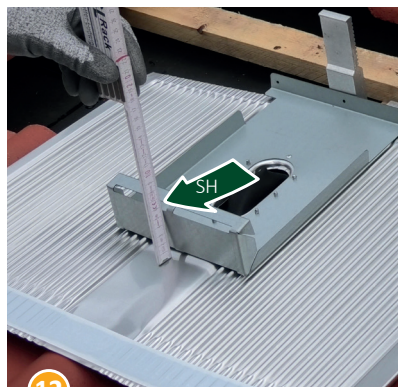

9b Attach the equipotential bonding clamp: fix it in place by tightening the screw (10 Nm).
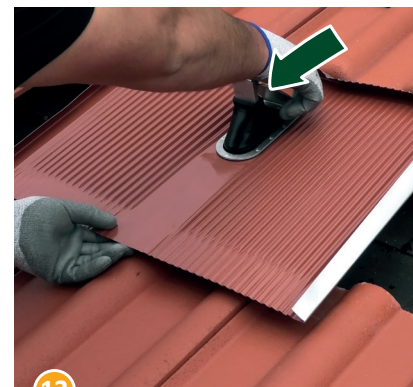
10 Nm

10 Determine the tile height (TH) to be compensated for.
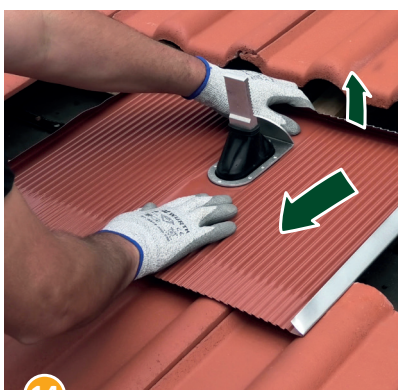
TH

11 Set the height of the Alpha plate by unfolding the support plate on the rear to the suitable extent.


**12** Tile height (TH) = Support plate height (SH).

SH

13 Place the opening in the support plate over the upper horizontal batten and slot the Alpha plate with its riveted-on sealing collar over the bracket.

14 Orient the Alpha plate, making sure that careless indentations do not lead to water pooling in the central and upper areas. Set the upper edging of the plate slightly backwards if full coverage of the upper lip is not already given.
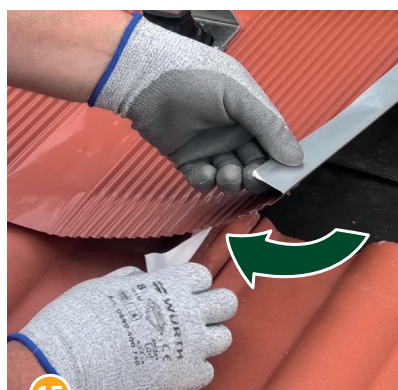
15 Completely remove the protective foil on the adhesive strip on the underside of the Alpha plate;
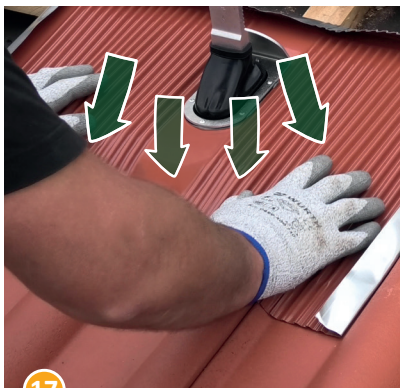**Make sure the area to be adhered to is clean, dust-free, and dry!**

Start centrally
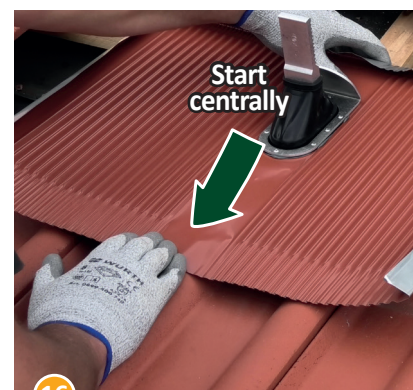
16 Starting from the centre, push the plate tightly and firmly into shape...
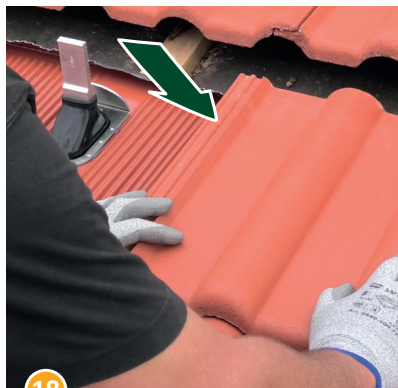
⚠️

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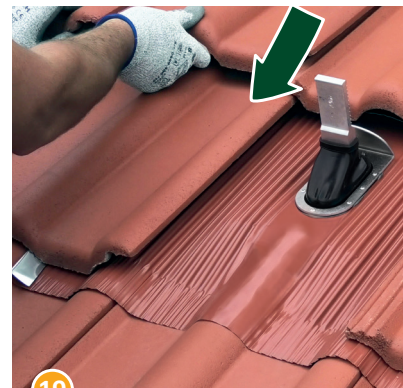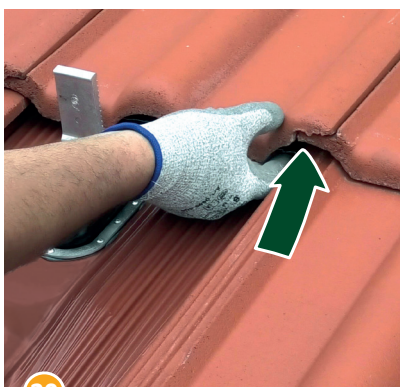*Schletter Ludwig*

Alpha plate assembly video

17 ...making sure, once again, that the central and upper areas do not lead to water pooling.
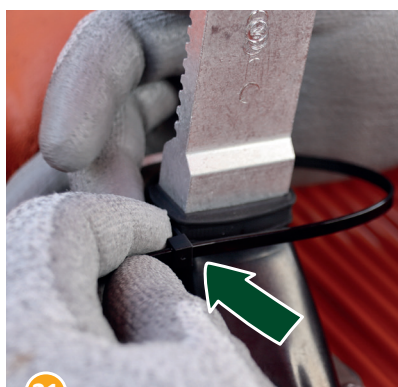

18 Reassemble the roofing.

19

20 Where the tiles overlap, press the edge of the plate from below onto the tiles.

21 Additionally secure the sealing collar by means of a cable tie. To this end, seat the cable tie in the groove, place the locking end of the tie at one of the four corners of the collar, pull it tight and cut off the excess.
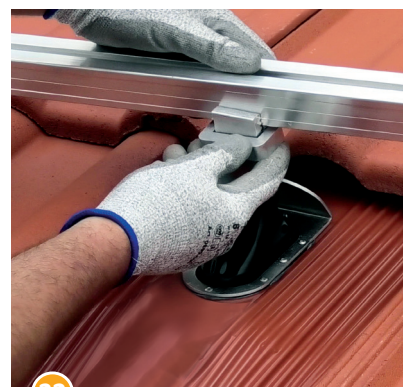
22 Replace the clamp combination on the bracket, place the crossbar on top, hook it in place, adjusting the height using the clamp combination on the bracket...

23 ...and fix in place by tightening the screw (15 Nm).

Done!

Notes

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Technical specifications

Material	Rolled sheet aluminium, rubber collar in EPDM, aluminium (bracket, clamp combination, snow or ice repeller) and galvanised steel (support plate)
Planning aids	SL-Rack configurator **Solar.Pro.Tool.**
Statics	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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