



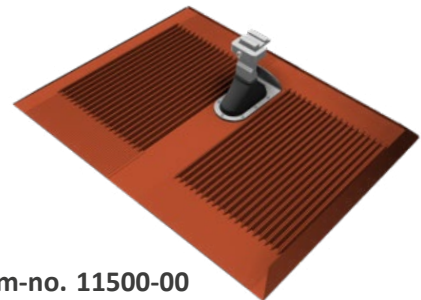
FOR CONCRETE ROOF TILES



UNIQUE ON THE MARKET

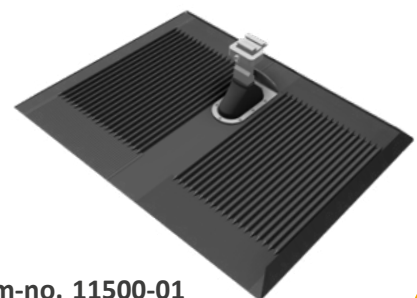
Your advantages with our products

- » Universal roof replacement panel with integrated console and rubber sleeve made of UV-resistant EPDM; hose clamp included.
- » Integrated snow and ice deflector.
- » Easy to shape panel to fit almost any shape of tile.
- » Raised panel sides protect from driving rain.
- » Corrosion- and UV-resistant.
- » **Dimensions Alpha-Plate:**
Length 457 mm, width 586 mm, height 82 mm
- » **Dimensions console:**
Length 150 mm, width 35 mm, height 190 mm
- » **Material:** Aluminum
- » **Colours:** Brick red (similar to RAL 8004) and anthracite (similar to RAL 7016)
- » Weight: 1.25 kg



Item-no. 11500-00

Colour: Brick red



Item-no. 11500-01

Colour: Anthracite



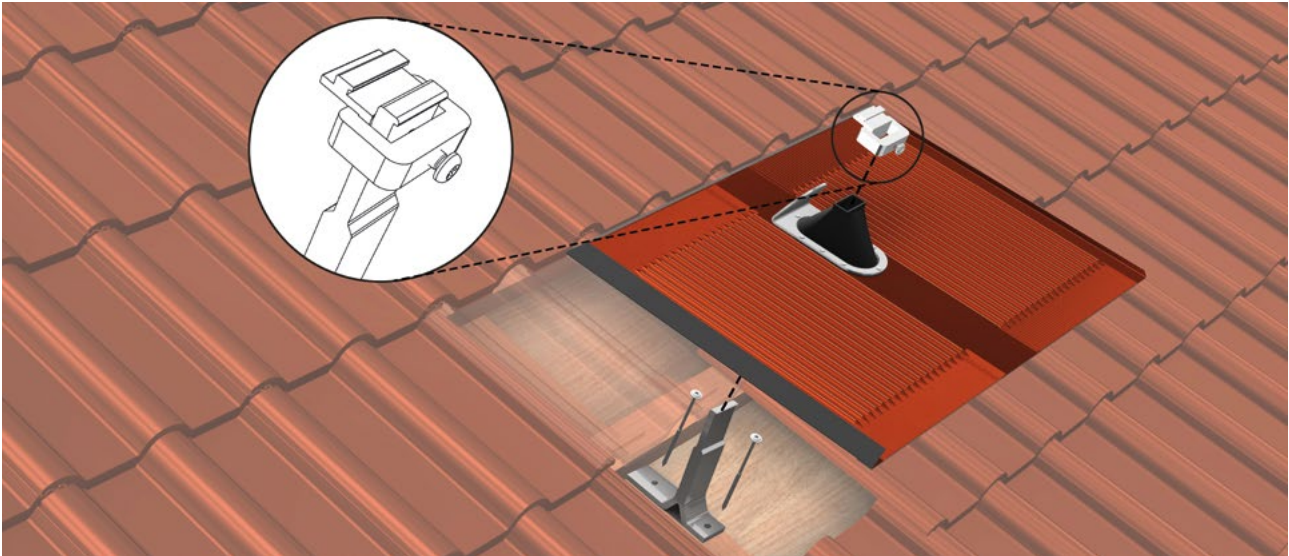
EN 1090-1
Factory
Production
Control



www.tuv.com
ID 9000039073



*Our warranty conditions apply. They can be viewed online at www.sl-rack.com

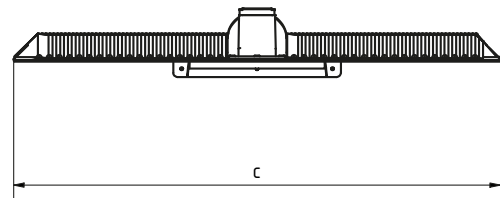
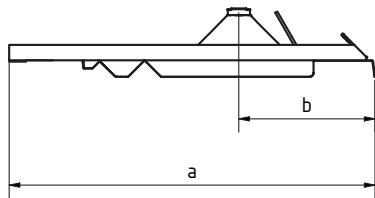


**For a perfekt roof attachment!
Please note and ensure the following:**

- » Minimum roof pitch 10°, as per ZVDH ; ZVDH specifications regarding the sub-roof must be observed.
- » Roof tiles must be dry and free from debris during the installation in order to achieve a waterproof connection.
- » **Batten spacing between 300 mm and 380 mm.**
- » **Tiles with interlocking pyramids on the bottom and extreme bead differences / waviness are not compatible.**
- » **Avoid the formation of water pockets: Locking lugs of the roof tiles might have to be removed before placing them back.**
- » **One Alpha-Plate substitutes one roof tile.**
- » Alpha-Plates must not be installed **directly** one above the other.
- » The overlapping area on the sides must be at least 10 cm.
- » The Alpha-Plate is not a substitute for a verge tile, it must be moved inwards by one tile. If necessary use the rafter spanning profile.
- » If a roof tile with a mounted storm clip is replaced with an Alpha-Plate, the storm clip must be mounted on the adjacent tile.
- » Special approvals upon request.
- » Please send your inquiry regarding tiles to sales@sl-rack.de

Dimensions

	a	b	c
Alpha-Plate	457 mm	152 mm	586 mm



Accessories



- » **Optional: Alpha-Flex 120**
Item no. 11512-00
- Mounting plate for console
- Lateral adjustability
- Grounding lug can be attached
- Incl. Alpha-Flex-Console Mounting Clamp



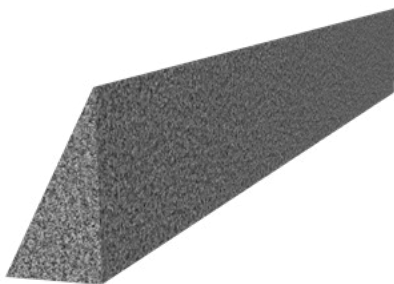
- » **Optional Alpha-Flex-Console Mounting Clamp**
Item no. 11501-02



- » **Optional: Alpha-Flex 2000**
Item no. 11501-2000
- Profile can span the width of up to 2 rafters (required in case an appropriate attachment for the console or mounting plate is not available)
- Better load distribution if multiple consoles are utilized
- Lateral adjustability
- Grounding lug can be attached



- » **Optional Potential Equalization Clamp for SL Alu and Alpha-Flex**
Item no. 11101-20



- » **Optional: Foam wedge**
Item no. 97401-00
- Optional component for rodent protection for extreme types of tiles
- Self-adhesive full foam strip
- Malleable structure
- Made of rot-proof net foam



- » **Optional Vertical Clamp Combination**
Item no. 11105-05

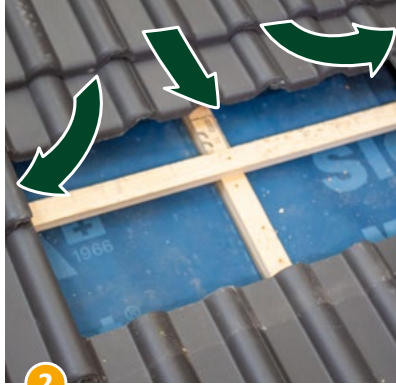


Alpha-Plate
Installation video

Installation

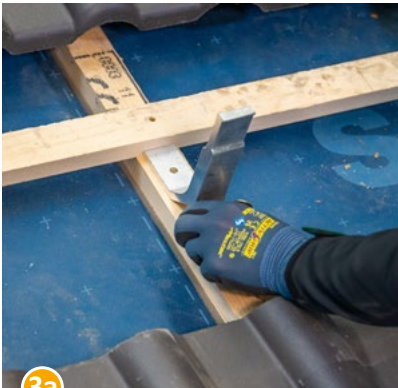


Remove tiles in the installation area (max. 3 tiles) and position the remaining tiles ...

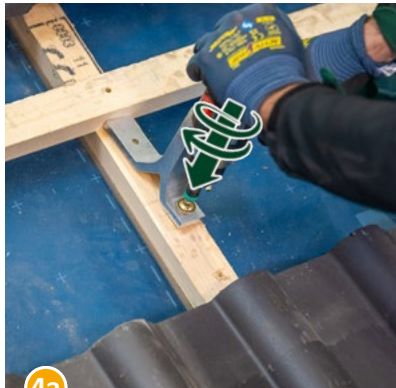


... under the top row so that the cross batten is easily visible and accessible.

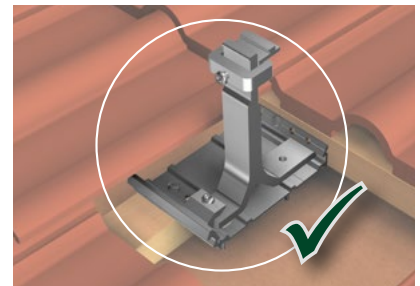
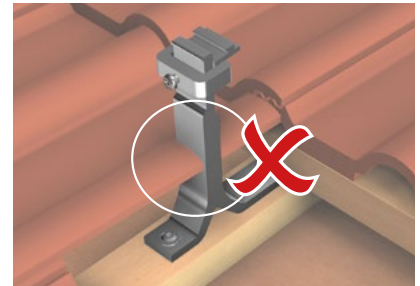
STANDARD METHOD OF CONSOLE ATTACHMENT



Slide the long side of the console against the roof batten, which serves as a reference point.

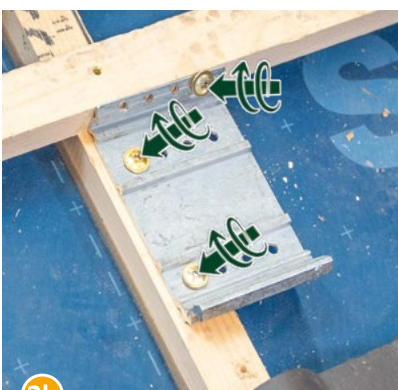


Attach the console with 2 wood screws.
Proceed to step 10.



Installation with Alpha-Flex:
If the console cannot be centered on the tile below, we recommend the use of Alpha-Flex.
Proceed to step 3b.

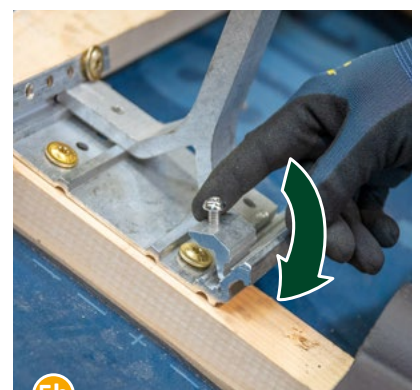
ALTERNATIVE ATTACHMENT WITH ALPHA-FLEX 120



With the groove facing upwards, position Alpha-Flex on the roof batten, offset it left/right and attaching it with a min. of 3 wood screws.



Insert the long side of the console into the upper groove of the Alpha-Flex.

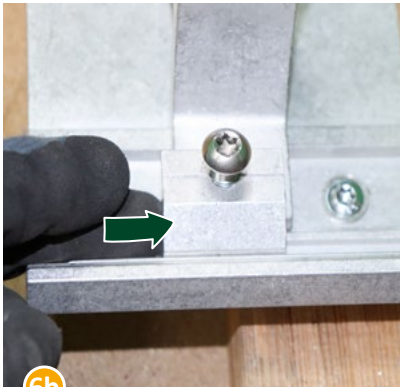


Hook the Alpha-Flex-Console Mounting Plate in ...



Alpha-Plate
Installation video

Installation



6b ... and center it over the console.



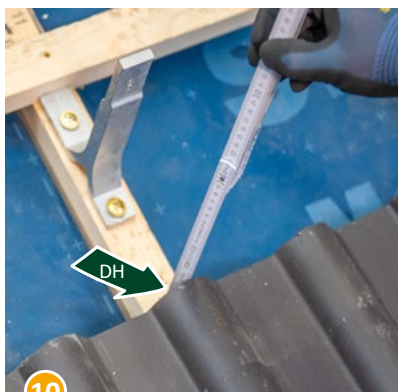
7b Fixate it by tightening the bolt with 10 Nm.



8b *Optional:* Hook the Potential Equalization Clamp into the bottom of the Alpha-Flex and tilt it forward.



9b Insert the cable and fixate the position by tightening the bolt to 10 Nm.



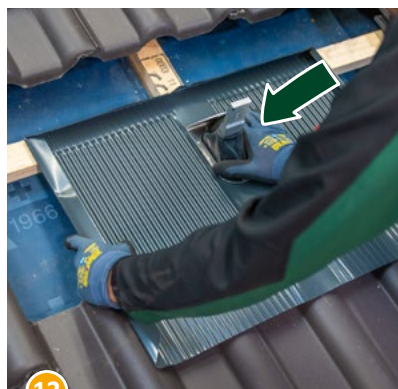
10 Determine the height of the roof tile (DH), that needs to be compensated.



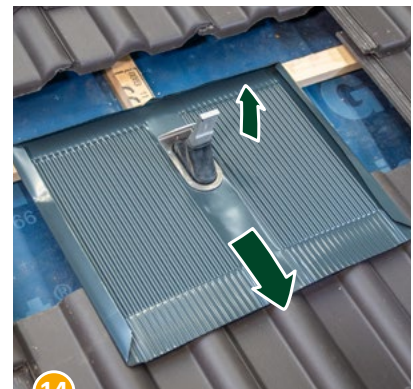
11 Adjust the height of the Alpha-Plate by bending the support plate on the back accordingly.



12 Height of roof tile (DH) = Height of support plate (SH).



13 Place the opening in the support plate on the upper horizontal batten and put the Alpha-Plate with its riveted sealing sleeve over the console.



14 Align the Alpha-Plate and ensure that there are no unintentional indentations in the top and center area, which could lead to the formation of water pockets. Leave the rear sheet metal edging slightly bent forward.



Alpha-Plate
Installation video

Installation



15 Completely peel off the protective paper from the adhesive strip on the back of the Alpha-Plate.

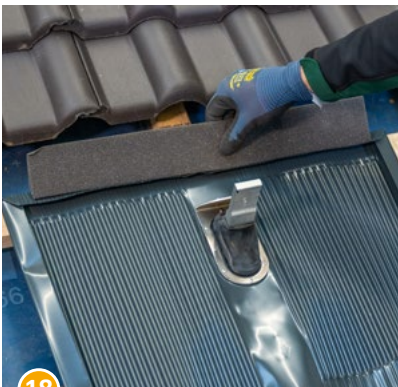
Make sure the surface to be bonded to is dry, clean and dust-free!



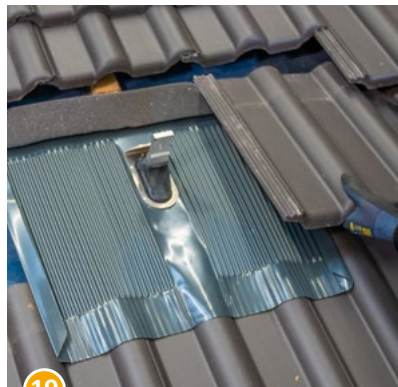
16 Starting from the center and working outwards, press down the Alpha-Plate firmly and form-fitting ...



17 ... making sure no water pockets can form in the top and center area.



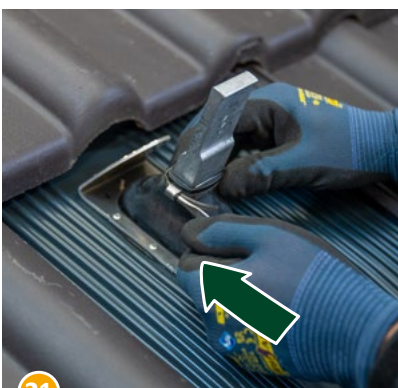
18 Peel off the protective paper from the adhesive strip on the foam wedge (*Item no. 97401-00*) and stick the foam wedge to the upper side of the metal edge.



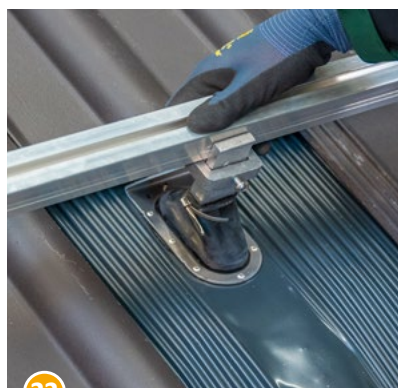
19 Put all tiles ...



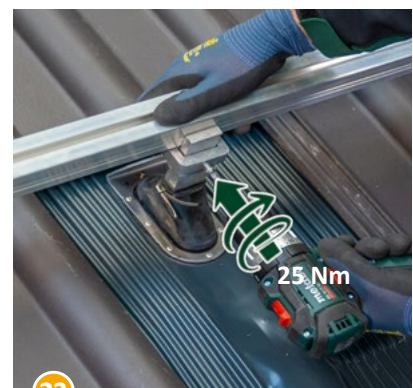
20 ... back into place.
Note: Check overlapping on the sides (min. 10 cm).



21 Additionally secure the top of the sealing sleeve by using the hose clamp (*Item no. 11502-00-06*). Place the clamp into the groove of the sleeve and tighten it.



22 Slide the Clamp Combination over the console, drop the rail on top and push it in. Adjust the height through positioning the Clamp Combination on the console.



23 Now fixate the position by tightening the bolt to 25 Nm.

Done!



Technical Data

Material	Rolled aluminum sheet metal, EPDM rubber sleeve, aluminum (console, clamp combination, snow- and ice deflector), galvanized steel (support plate).
Design Tool	SL-Rack Configurator Solar.Pro.Tool
Statics	The structural analysis is carried out in accordance with the current country-specific standards (EN 1991, EC1 for Germany). Depending on snow loads, wind loads, or when utilizing large modules, it may be necessary to use more than the usual 4 fastening points. Make sure to observe the installation manual of the respective module manufacturer. The load-bearing capacity of the roof has not been evaluated by SL Rack.

SL Rack
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