

roboost

®

Corrugated Roof Hanger Bolt Manual

blubase[™]
STRONG IN SOLAR SUPPORT

! OBSERVE THE APPLICABLE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS AT ALL TIMES

PREPARATION

Required tools:

- Tape measure
- Drill
- Wood drill 7mm (pre-drilling for hanger bolt)
- Hex key 5mm
- Ratchet wrench 8mm, 13mm and 17 mm

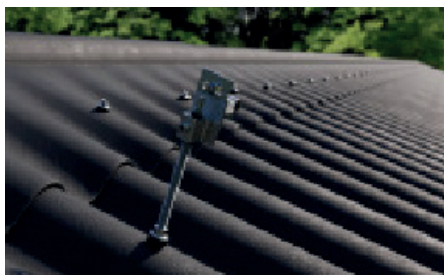
1. Check that the roof subsurface is sufficiently strong (replace if necessary).
2. Observe the NEN standards at all times.

HANGER BOLTS 200/250/300

STEP 1

Install the hanger bolts by spacing them according to the results of the Blubase calculation tool.

Bear in mind that the distance between the solar panels and the edge of the roof should be 500mm at all times.



STEP 2

Drill a 7mm hole where the hanger bolt is required and tighten the hanger bolt securely.

Caution! Mount the hanger bolt on a convex part of the corrugated sheet. Any water discharge flows through the concave sections.

STEP 3

Tighten the rubber closure cap securely. The EPDM ensures a watertight connection.

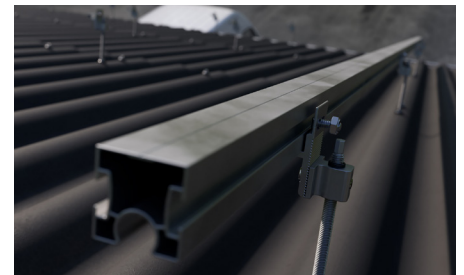
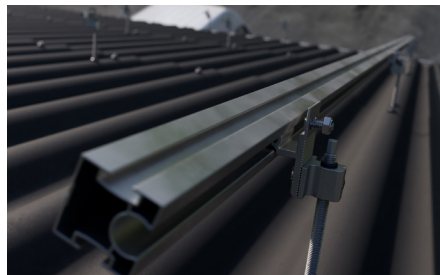
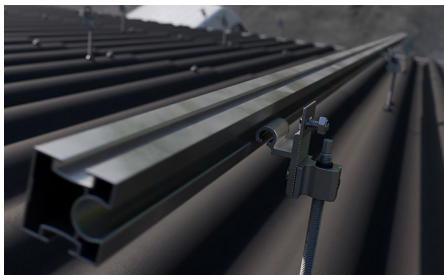


MOUNTING PROFILE

STEP 4

Once the adjustable rotating element on the hanger bolt is in the correct position, secure the rotating element to the hanger bolt by tightening the screw.

Caution! The tightening torque of the screw connection is 9 Nm. Then mount the mounting profile. The mounting profile is mounted to the hanger bolts with a hammer-head screw and lock nut.



SOLAR PANELS

STEP 5

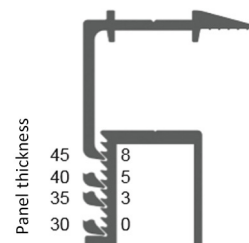
Place the first panel onto the mounting profiles. Ensure that the distance between the panel and the roof edge is 500mm.

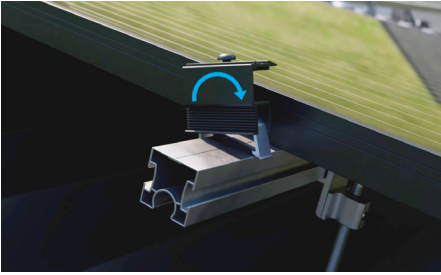


STEP 6

Attach an end clamp to the ends.

Caution! The tightening torque of the screw connection is 9 Nm.

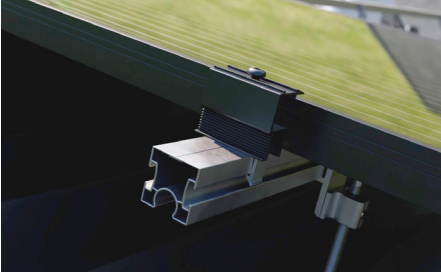


**STEP 6.1**

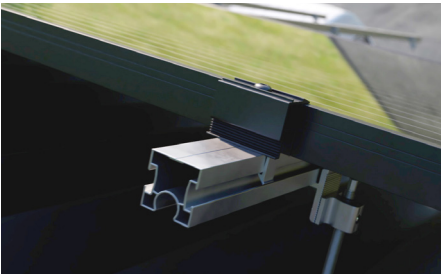
Hook in the universal clamp behind the lip on top of the hammer-head chamber (see illustration).

STEP 6.2

Twist the clamp smoothly over the rail until it clicks into place on the other side of the hammer-head chamber.

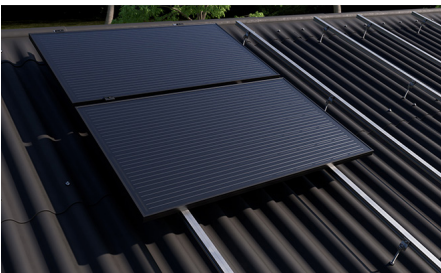
**STEP 6.3**

Check that the clamp is securely in place, as illustrated.

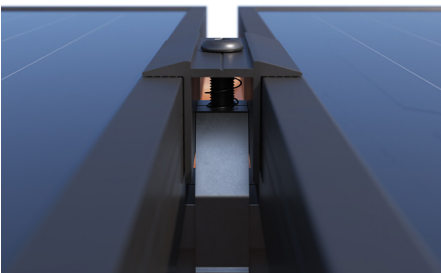
**STEP 6.4**

Slide the clamp towards the panel.

The end clamp is positioned correctly if it rests against both the panel and the mounting profile.

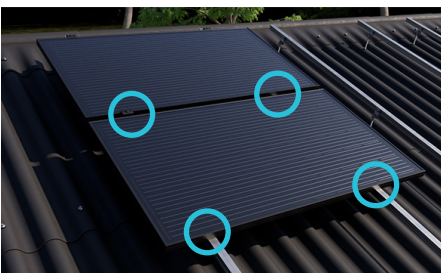
**STEP 7**

Place the second panel on top of the mounting profiles.

**STEP 8**

Install an intermediate clamp in between the panels. Press the panels tightly against the intermediate clamp.

Caution! The tightening torque of the screw connection is 9 Nm.



All panels are clamped at four points.

DISCLAIMER

BLUBASE

- This manual is a general guide (and is therefore not specific to one project) for the straightforward and efficient installation of solar panels using the Blubase mounting system. No rights may be derived from this manual.
- For the installation of the Blubase roboost mounting system the buildings should have a height of max. 12 metres. If the building is taller, please contact Blubase in advance for a project-specific, customised solution.

IMPORTANT

- Installing solar panels on an existing building will change its structural load and/or construction. We therefore recommend that the structural calculations for an existing building are updated by a specialist, taking into account the solar panels to be placed and current regulations such as NEN6702, NEN7250, NEN1991-1-4+A1+C2:2011/NB:2011 and NPR 6708:2013 in particular for wind, snow and water loads.
- The building insurer must be contacted in advance.
- The following building-related elements should be checked and approved in view of the existing structural arrangements:
 - The additional weight load of the entire PV system that will be installed
 - Geometry change of the roof surface
 - Wind pressure, snow load and water load, with simulation of accumulations
 - The loads for the structure, roof coverings and insulation during the installation
 - The suitability of the roof covering and insulation (point pressure) at the contact points between the mounting system and the existing construction
 - The consequences of the thermal interaction between the building and the PV system
 - The consequences of any vibrations of the building and/or PV system