

**roboost**

®

# Steel Roof Mounting Base Manual

**blubase**<sup>™</sup>  
STRONG IN SOLAR SUPPORT

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

## PREPARATION

Required tools:

- Tape measure
- Hex key 5mm
- Ratchet wrench 8mm and 13mm

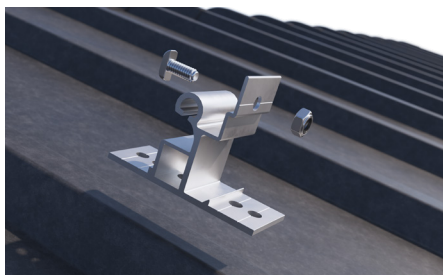
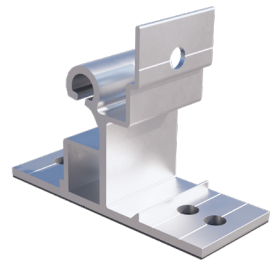
1. Check that the roof subsurface is sufficiently strong (replace if necessary).
2. To ensure a firmly secured mounting base, the steel roof should have a minimum plate thickness of 0.5mm.
3. Observe the NEN standards at all times.

## MOUNTING BASE

### STEP 1

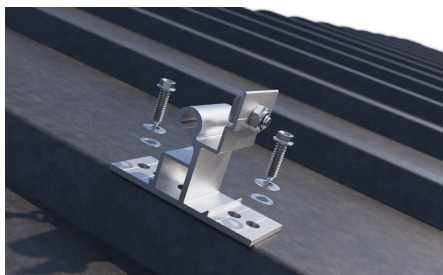
Install the mounting base by spacing them according to the results of the Blubase calculation tool.

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



### STEP 2

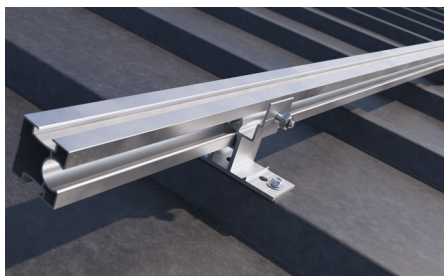
Insert a hammer-head screw and a lock nut into the **outermost** mounting bases (as per mounting profile).



### STEP 3

Secure the mounting base with self-tapping sheet-metal screws with a neoprene ring.

## MOUNTING PROFILE



### STEP 4

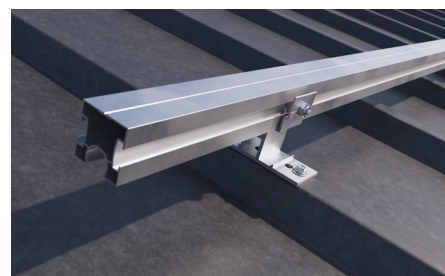
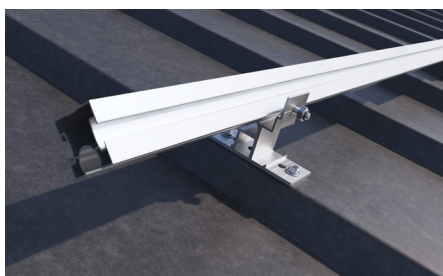
Place the mounting profile against the mounting bases.

### STEP 5

Rotate the mounting profile around the rotation element of the mounting base. Ensure that the profiles left and right are aligned.

### STEP 6

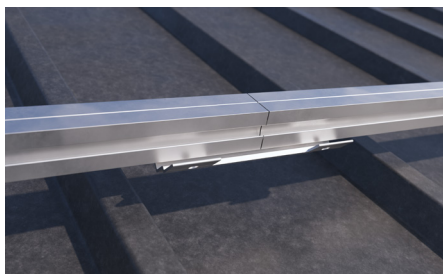
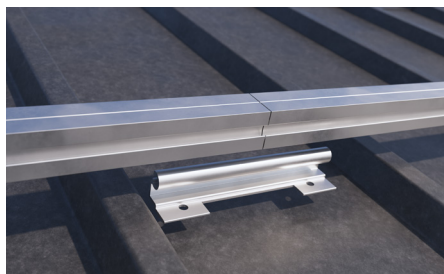
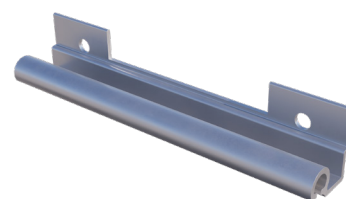
Tighten the lock nut into the hammer-head screw so that the mounting profile can no longer rotate or slip free from the mounting base.



## PROFILE COUPLING

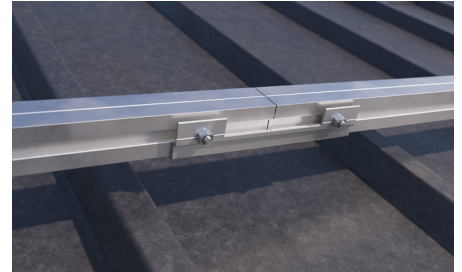
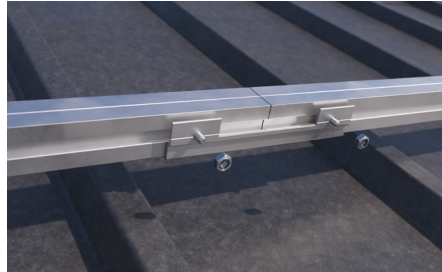
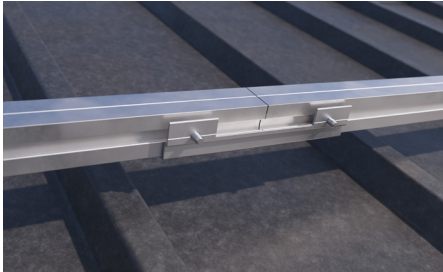
### STEP 7

If necessary, fit a profile coupling to connect two mounting profiles. Rotate the profile coupling into the mounting profiles.



**STEP 8**

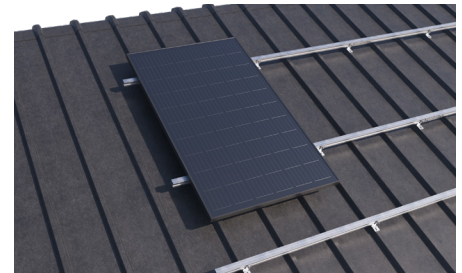
Install the profile coupling using two hammer-head screws and lock nuts. Two hammer-head screws and lock nuts for each profile coupling are sufficient. Tighten the lock nuts to prevent the profile from rotating or slipping free.



**SOLAR PANELS**

**STEP 9**

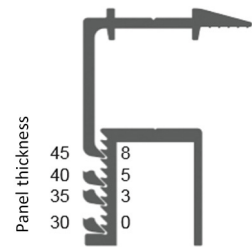
Place the first panel onto the mounting profiles. Ensure that the distance between the panel and the roof edge is 500mm.



**STEP 10**

Attach an end clamp to the ends.

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

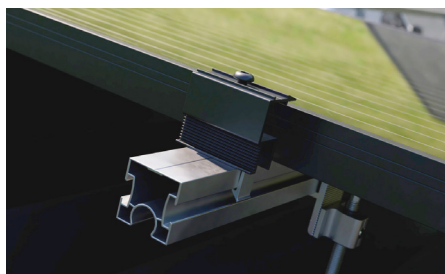


**STEP 10.1**

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

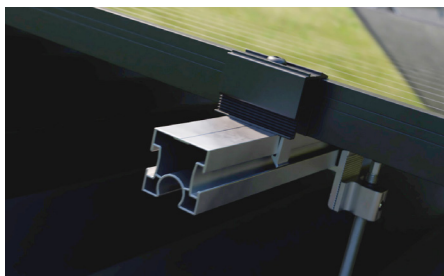
**STEP 10.2**

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

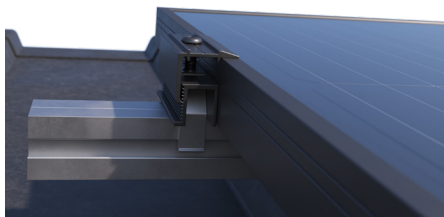


**STEP 10.3**

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

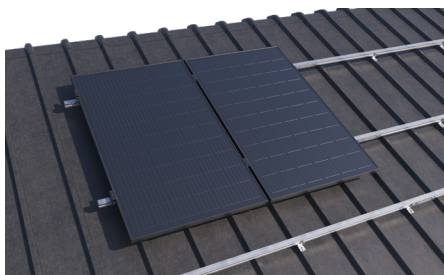
**STEP 10.4**

Slide the clamp towards the panel.

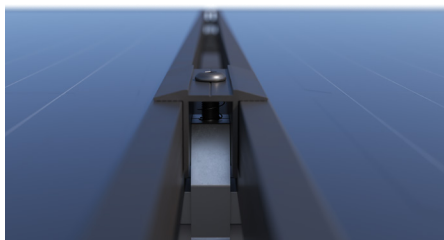
**STEP 10.5**

Press the end clamp tightly against the panel.

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

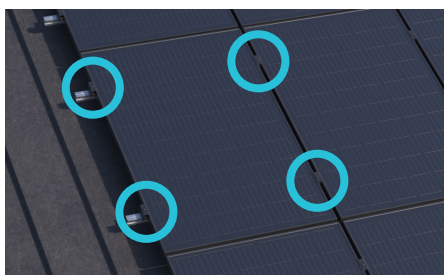
**STEP 11**

Place the second panel on top of the mounting profiles.

**STEP 12**

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