

**roboost**

®

# Steel Roof Bracket Portrait Manual

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

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

## PREPARATION

Required tools:

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

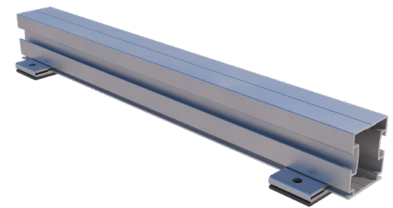
1. Check that the roof subsurface is sufficiently strong (replace if necessary).
2. To ensure that the steel roof bracket is secured firmly, a steel roof must have a minimum plate thickness of 0.5mm.
3. Observe the NEN standards at all times.

## STEEL ROOF BRACKET 250/400

### STEP 1

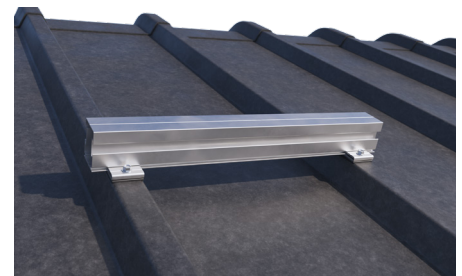
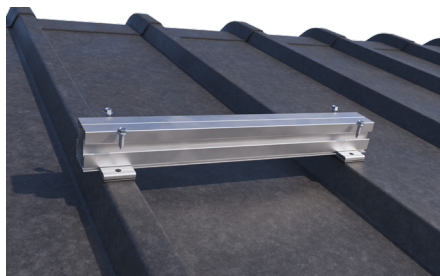
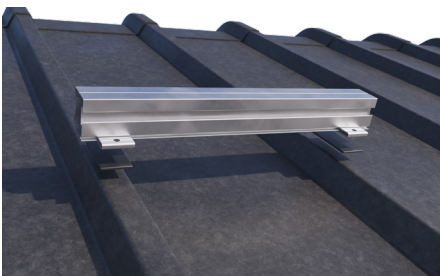
Install the steel roof brackets by spacing them according to the results of the Blubase calculation tool.

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



### STEP 2

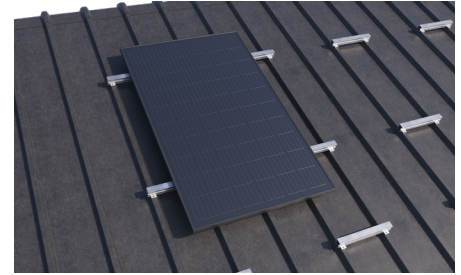
Secure the bracket with self-tapping sheet-metal screws with a neoprene ring.



## SOLAR PANELS

### STEP 3

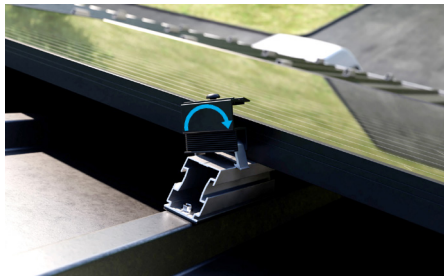
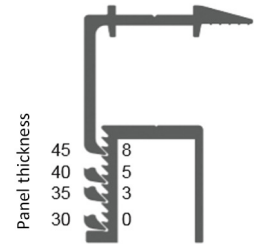
Place the first panel onto the steel roof brackets. Ensure that the distance between the panel and the roof edge is 500mm.



### STEP 4

Attach an end clamp to the ends.

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

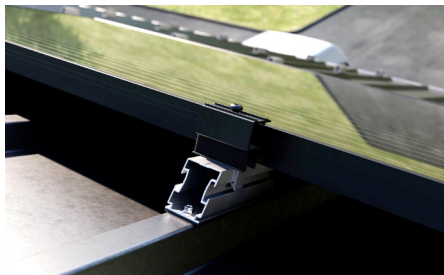


#### STEP 4.1

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

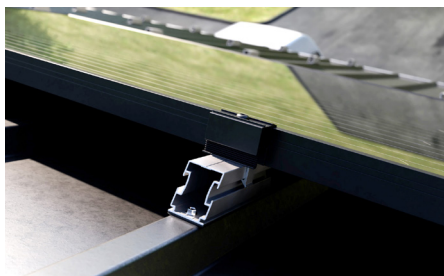
#### STEP 4.2

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



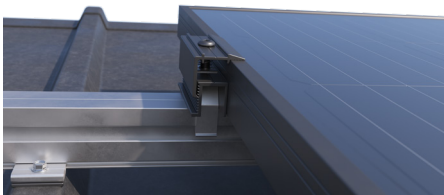
#### STEP 4.3

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



#### STEP 4.4

Slide the clamp towards the panel.



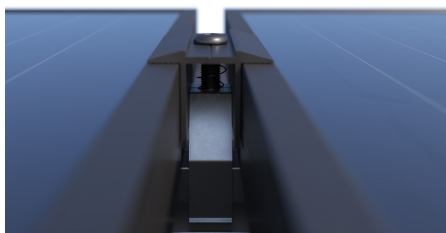
#### STEP 4.5

**Caution!** Mount the clamps in the centre of the mounting profile where possible.

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

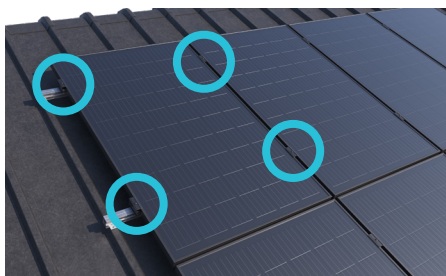
**STEP 5**

Place the second panel on top of the steel roof brackets.

**STEP 6**

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