

rofast

®

East-West Manual



blubase[™]
STRONG IN SOLAR SUPPORT

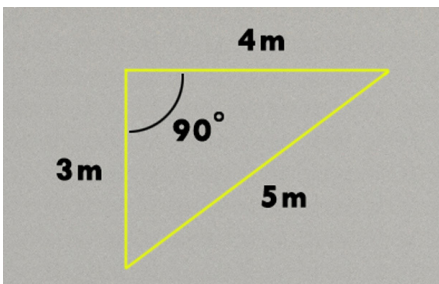
! OBSERVE THE APPLICABLE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS AT ALL TIMES
! OUR ONLINE CALCULATOR IS A GUIDE FOR THE BALLAST PLAN

PREPARATION

Required tools:

- Tape measure
- Installation batten
- Hex key 5mm
- Socket wrench SW5

Always check that the flat roof can support the weight of the system (with ballast).

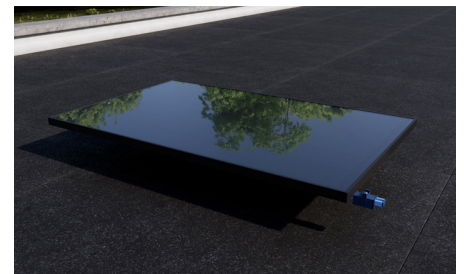


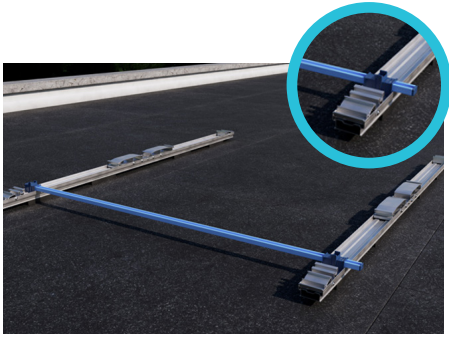
STEP 1

Start by setting out the field at right angles.

STEP 2

Adjust the Solar Construct Nederland installation batten to match the solar panel you will be using. The adjusted installation batten makes it easy to determine the distance between the various underlying elements.





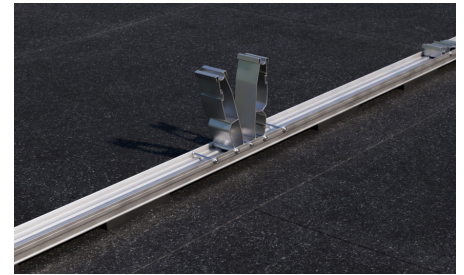
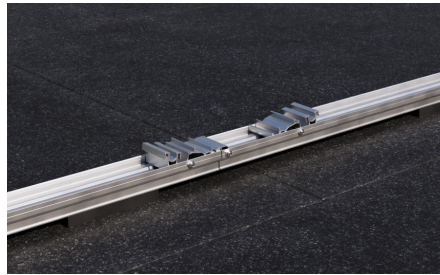
UNDERLYING ELEMENTS

STEP 3

Place two start profiles in the field with right angles. Use the underside of the adjusted installation batten to determine the distance between the two start profiles.

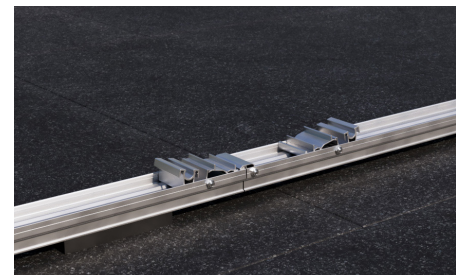
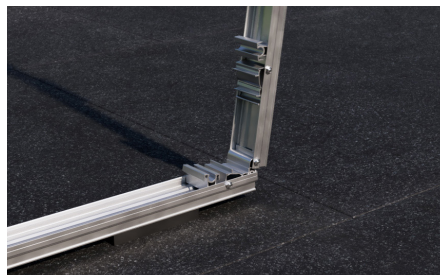
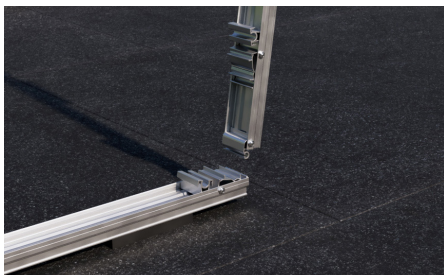
STEP 4

Fold the two uprights upwards and click them into position.



STEP 5

Once the start profiles have been placed into position, the intermediate profiles can simply be rotated into the start profiles.

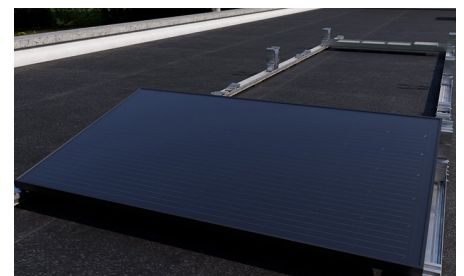
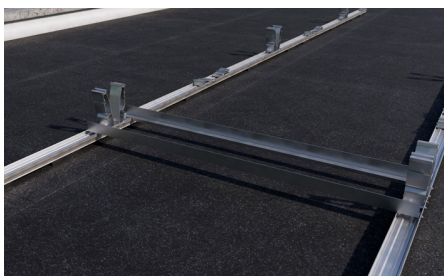


BALLAST FOR HOOK PROFILES

STEP 6

The ballast holders/trays are placed into the underlying elements. Once the ballast holders/trays are in position, the ballast for the entire system can be added.

Our online calculator is a guide for the required amount of ballast.

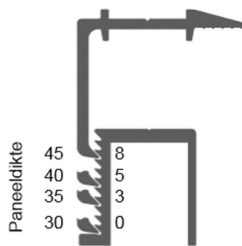
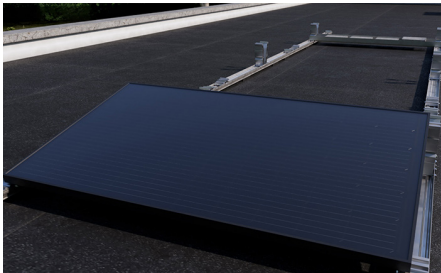


SOLAR PANELS

STEP 7

Place the solar panels on the (extended) profiles of the underlying elements. Position the panel in the middle, so that both sides are equal.

Panels with a width between **990mm and 1034mm** are placed against the plastic lip. Panels with a width between **1035mm and 1070mm** fit against the aluminium bottom profile, which pushes away the plastic lip. A separate item is available for panels with a width between **1071mm and 1150mm**.



STEP 8

Attach an end clamp to the ends. Tighten it in until the gripping point is reached.

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

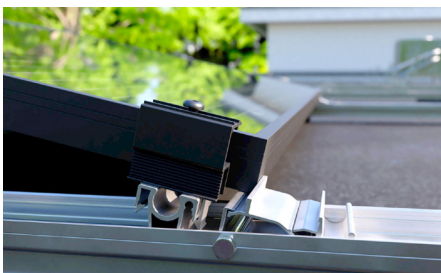


STEP 8.1

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

STEP 8.2

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



STEP 8.3

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



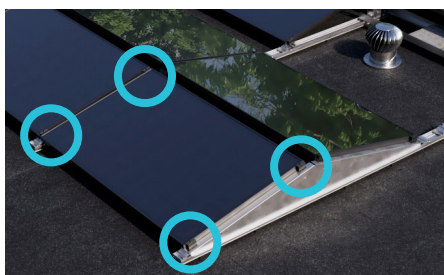
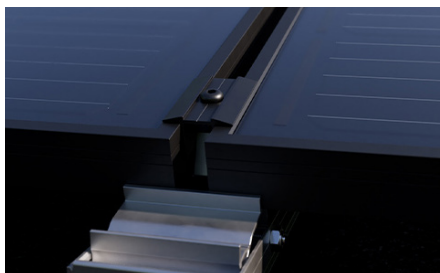
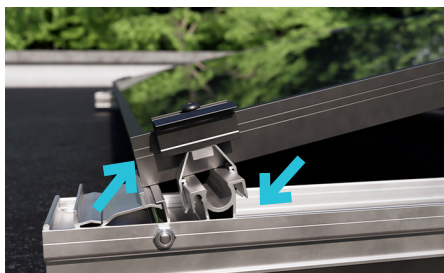
STEP 8.4

Slide the clamp towards the panel.

STEP 9

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.

SIDE PANELS (OPTIONAL)**STEP 10**

The side panels are installed at six points with self-tapping screws.

Caution! Side panels are optional. Side panels are not included as standard.

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 rofast 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.
- If a flat roof is sloping more than four degrees, the Blubase rofast mounting system must be secured/anchored to prevent movement.
- An online calculation tool is available for the ballast calculation. Although this tool was developed in collaboration with the TNO Bouw research organisation according to NEN 7250, the results should be used as a guideline only. Blubase does not supply any ballast material.

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