qspv

Pitched Roof
Manual

blubase™
STRONG IN SOLAR SUPPORT

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

! OUR ONLINE CALCULATOR PROVIDES GUIDANCE IN CREATING YOUR INSTALLATION PLAN

PREPARATION

Required tools:

- Tape measure
- Hex key 5mm
- Open-end wrench 13mm & 15mm

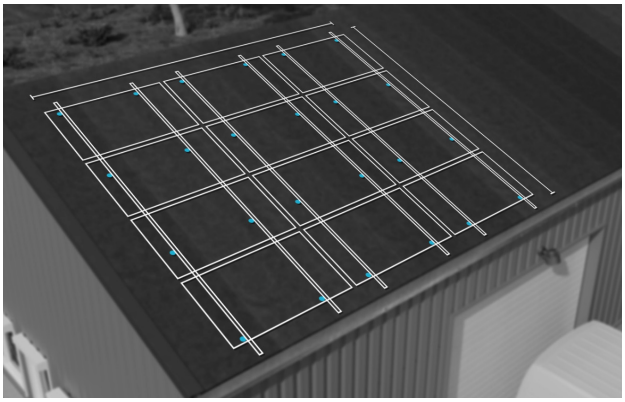
1. Check that the roof subsurface is sufficiently strong (replace if necessary)
2. Observe the NEN standards at all times.
3. We always advise to consult a roof specialist when installing the QS PV-Anchors.

QS PV-ANCHOR

STAP 1

Mark out the positions of the QS PV-Anchors with spacings according to the Blubase calculation tool.

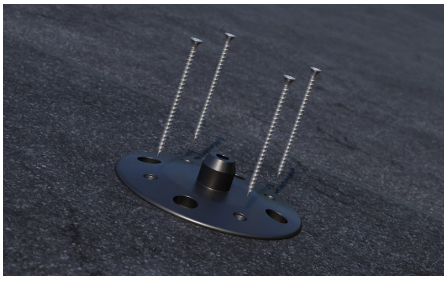
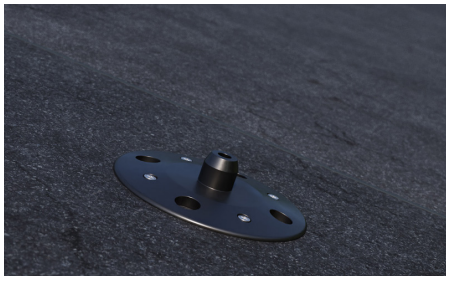
Please note that the anchor should not protrude more than 200mm beyond the outer rail and there should be a margin of 500mm from solar panels to the eaves.



STAP 2

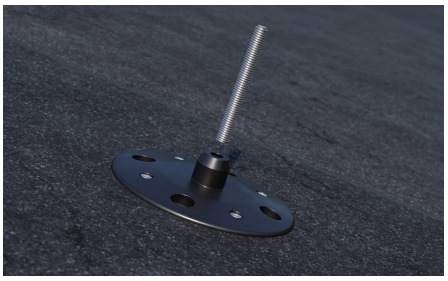
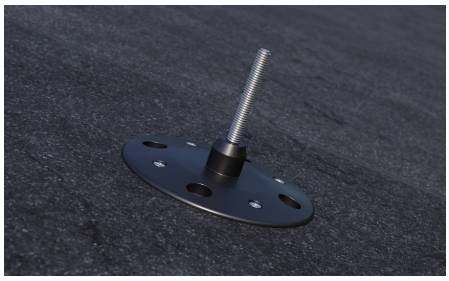
Place the black plastic base plate on the roof covering at the desired location. Fix the plastic base plate with 4 screws.

The screw selected depends on the thickness of the insulation and the roof substrate in which the screw is to be fixed. Blubase does not supply these screws. We advise you to contact Quick Slide in this regard (www.dakverkoop.nl)

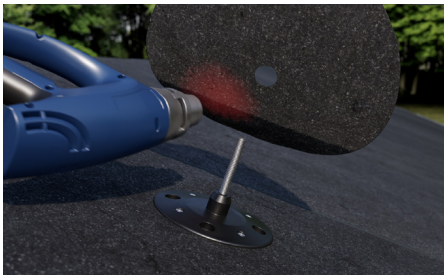
STAP 3

Then screw in the supplied threaded rod until hand tight.

STAP 4.1

Now heat the centre of the underside of the packing seal until the bitumen visibly flows and slip the sealing cuff over the anchor and press it down firmly.

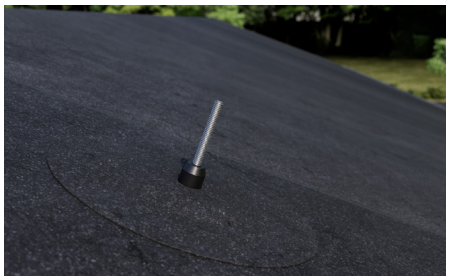


STAP 4.2

The cuff is then bonded to the roof material in a watertight manner. Work from the inside out.

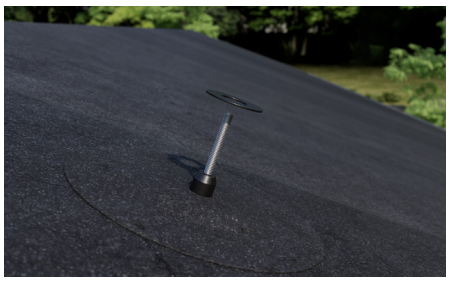
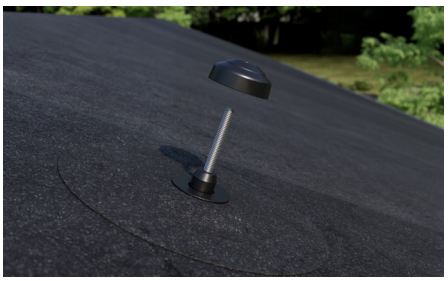
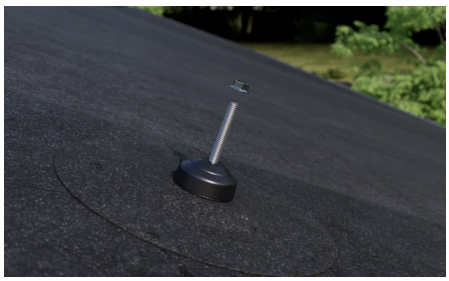
Ensure that a watertight bond is created all around the cuff. (can also be applied with a bristle burner).

Is the roof material made of PVC or EPDM? Then go to www.dakverkoop.nl for installation instructions.



STAP 5

Install the special black EPDM sealing ring and cover. Then screw on the 1st locknut and tighten it.

STAP 6

Screw on the 2nd locknut and lower it to the top of the 1st locknut. Then fit the rotation adapter and secure it with the 3rd locknut. Now tighten the 3rd locknut securely.



MOUNTING PROFILE

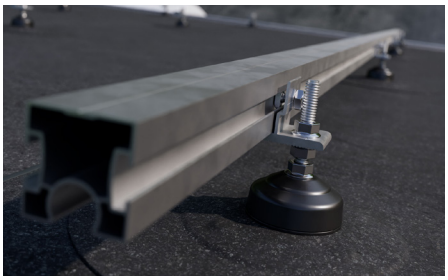
STAP 7

When all anchors have been fitted, the mounting rail can be attached. Make sure the anchors are aligned straight.

STAP 8

Place the mounting profile against the roof hooks and rotate the mounting profile around the rotation element of the QS PV-Anchor. Ensure that the profiles left and right are aligned.

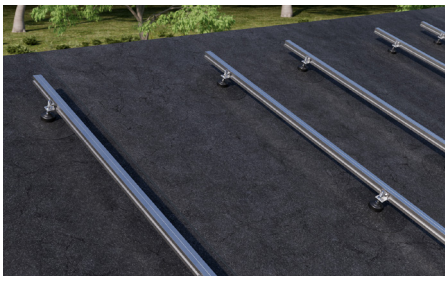




STAP 9

Secure the mounting rail with a hammer head bolt and nut, and tighten securely.

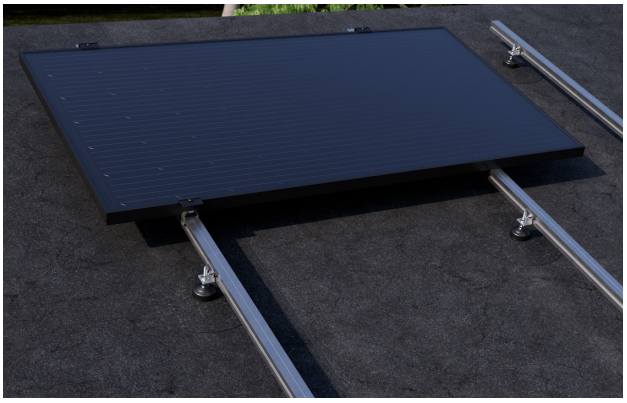
Please note that the outer rail should not protrude more than 200mm beyond the anchor.

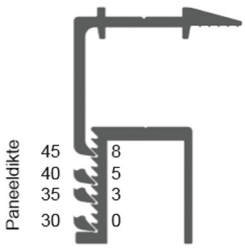


SOLAR PANELS

STAP 10

Place the first panel on the QS PV-Anchors.

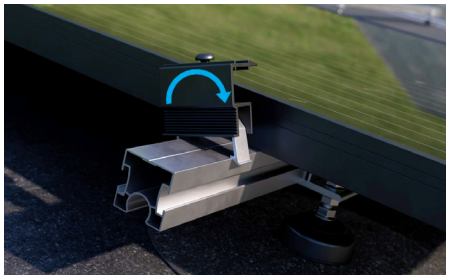




STAP 11

Attach an end clamp to the ends.

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

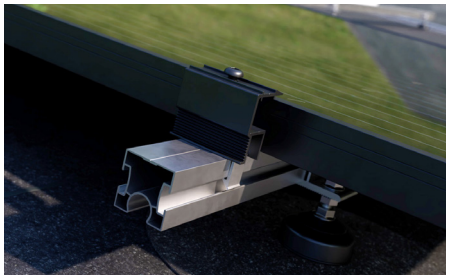


STEP 11.1

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

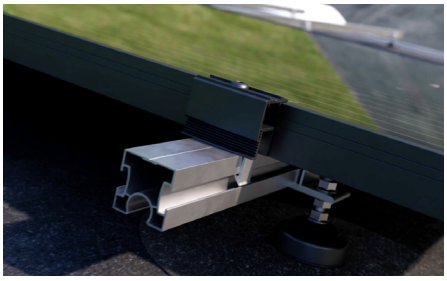
STEP 11.2

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



STEP 11.3

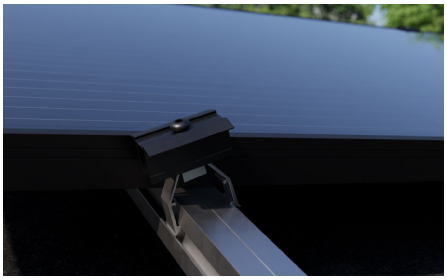
Check that the clamp is securely in place, as illustrated.

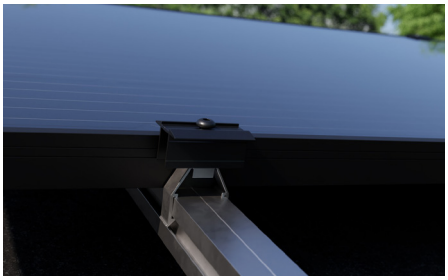


STAP 11.4

Slide the clamp towards the panel.

The end clamp is correctly positioned when it rests against both the panel and the profile of the underlying element.

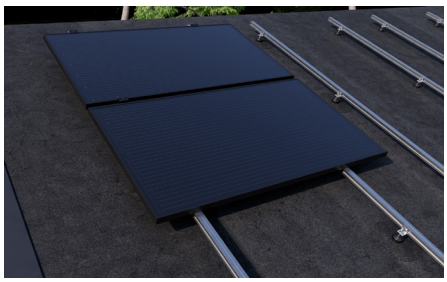




STAP 12

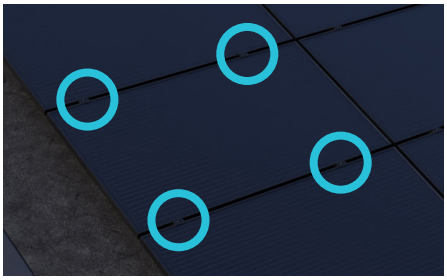
Install an intermediate clamp in between the panels. Press the panels tightly against the intermediate clamp.

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



STAP 13

Place the second panel on top of the mounting profiles.



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.
- If a flat roof is sloping more than four degrees, the Blubase RoBoost 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.
- Please follow the general terms and conditions of Blubase dated January 2018.

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