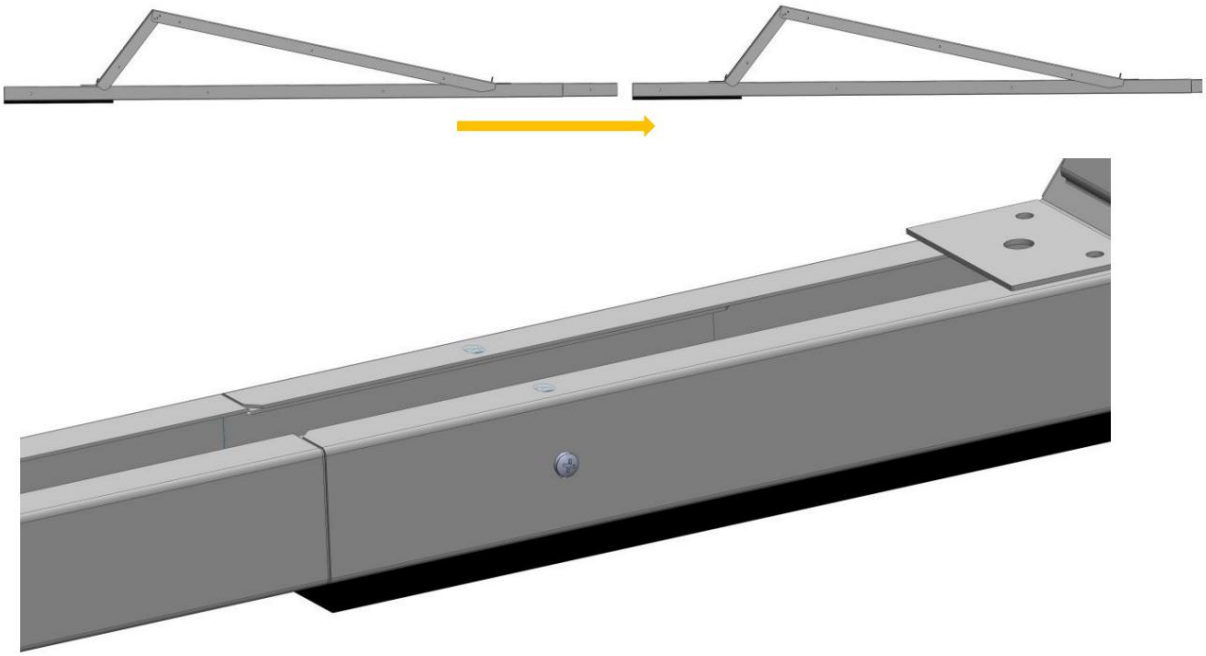
SolarSpeed

assembly instructions

STEP 1: Assemble base units

Place the base units on a flat and stable roof surface.
Connect the base units by sliding the bracing of the first base unit into the rail of the base unit behind it.
Secure with two stainless steel sheet screws (Ø6.3) or stainless steel pop rivets in the pre-drilled holes at the top or on the side of the connectors.



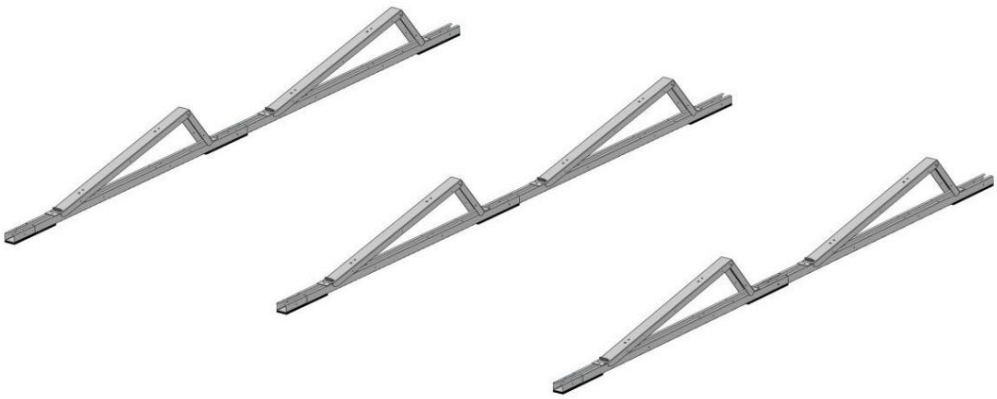
STEP 2: Attach the end rubber to the end of the column

On the last base unit of each column, an end rubber should be attached to the end of the rail.

Remove the protective film from the end rubber, glue the rubber to the profile and press firmly. Make sure the rail is grease-free.

STEP 3: Align the rows

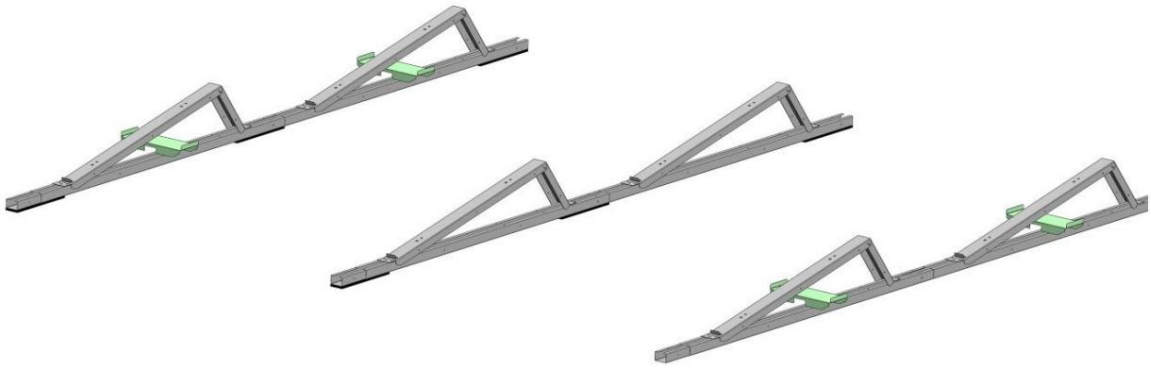
Align the rows according to plan, taking into account the length of the panels.

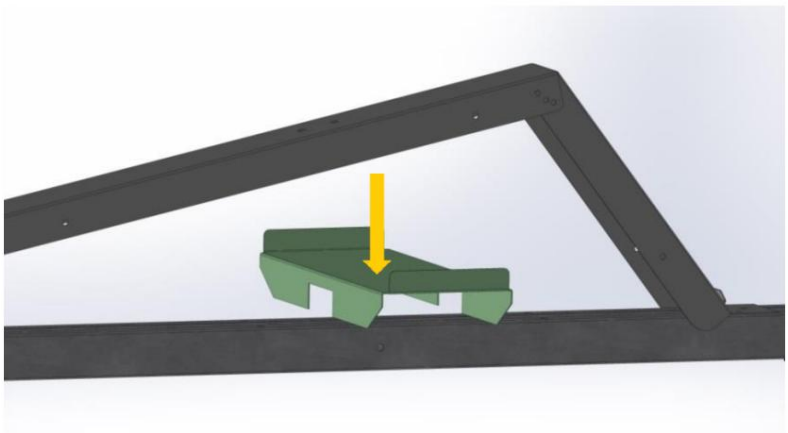


Tip! To correctly determine and maintain the distance between the base units in a simple way, Avasco has developed a spacer. This is available on request.

STEP 4: Provide ballast

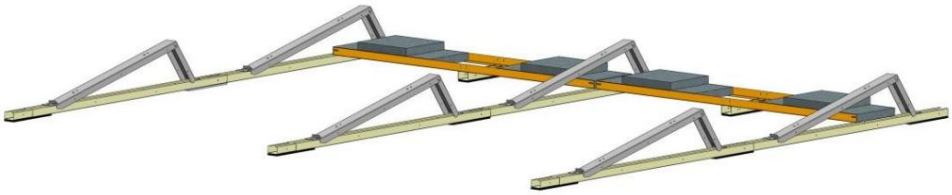
Ballast is placed on the ballast carriers that can be easily mounted by sliding them with the cut-out over the ground rail.





After mounting the SolarSpeed backplate (step 6), it is also possible to place additional ballast on the end of the setup/columns.

Als het niet mogelijk is voldoende ballast te plaatsen door middel van de ballastbeugels of als er een extra OW-verbinding moet komen ter versteviging van het frame, kan de ballast geplaatst worden op L-profielsets. bestaan uit twee L-profielen en een centrale steun die voorkomt dat ze doorbuigen. Deze sets worden eenvoudig gemonteerd door ze te bevestigen met roestvrijstalen plaatschroeven (Ø6,3) of roestvrijstalen popnagels in de voorgeboorde gaten. Elke L-profiel moet worden bevestigd aan de rails aan beide zijden van het paneel en aan de centrale steun door middel van ten minste één plaatschroef.

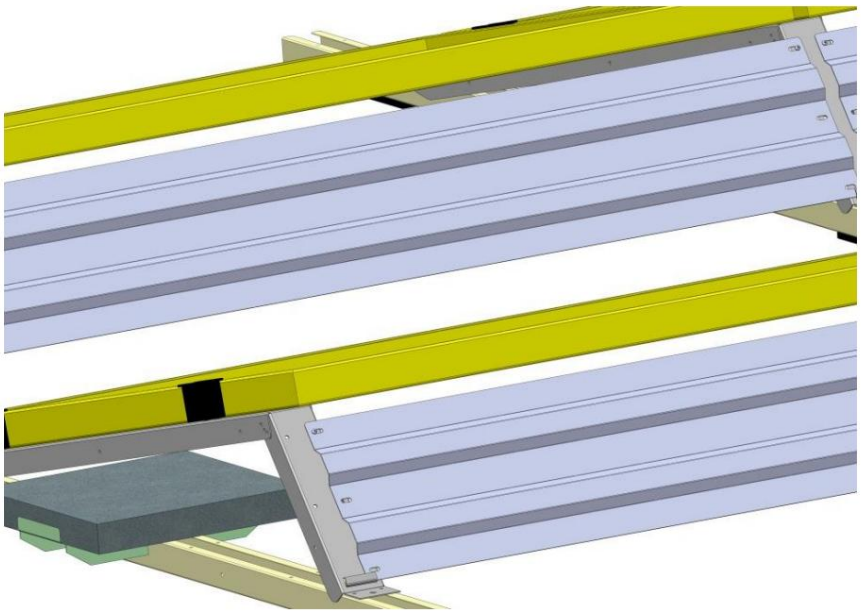


STEP 5: Mounting the solar panels

Place the panels on the mounting triangles and clamp them with the appropriate end and centre clamps.
The clamping instructions for the PV modules should be supplied by the module manufacturer. All drawings in this manual are purely illustrative.

Notes:
• Use only stainless steel mounting parts
• Always clamp with the correct torque

STEP 6: Mounting the Solarspeed Backplate



Place the SolarSpeed backplate on the back of the SolarSpeed mounting triangle and fasten using stainless steel sheet metal screws (Ø6.3) (minimum 4 per backplate).

The backplate is essential to reduce the required ballast and must always be mounted on each panel.

General remarks

• The installer should always check that the rubber protection (provided on the bottom of the base unit) is sufficient when installing on soft or semi-soft ground. The installer should also check the compatibility of the rubber protection with the roof surface.

• Special installation instructions must be followed for the following installations

• Less than 5 km as the crow flies from the coast: All fixing materials must be 316 stainless steel.
• In an aggressive environment: All materials must be stainless steel with appropriate specifications to be determined according to the aggressive substances.
• In a salty environment: Anodised aluminium or stainless steel construction.

These specific versions can be supplied on request.

• Particular attention should be paid to roofs with an E-W slope and to roofs that move easily up and down (e.g. due to vibrations from wind loads or other causes):

- Without additional connections in the E-W direction, the installation may tend to

Without additional connections in the East-West direction, the installation may tend to "slide" unevenly.

- These East-West connections can be mounted on the North-South beams and/or on the top of the triangle. This should be considered on a case-by-case basis.

- In cases where you are dealing with negative and/or positive sloping roofs, we

recommend that a connection is made at the ridge.

- In case of doubt, contact a specialised engineering office.

- For roofs with a slope in the NZ direction and where there is a slope (negative + positive) on both sides, it is

For roofs with a slope in the NZ direction and where there is a slope (negative + positive), it is recommended to make a connection at the ridge.

• Clamps:

Only use clamps authorised and/or recommended by the module manufacturer.
In aggressive, windy or sea-salt-rich environments (e.g. close to the coast): Same remarks as for mounting material.

• Special attention to roofs in extreme conditions:

Extreme conditions are:

o Roofs with a height >15m
o Windy areas
o Places where buildings or other objects can create a wind tunnel effect
o Other

• All panels must be fitted with backplates, which are fastened with sufficient stainless steel sheet screws with diameter 6.3mm.
• All panels on the sides of the installation must be provided with covers, which are fastened with sufficient sheet metal screws with diameter 6.3mm.
• Provide sufficient ballast for each panel.
• Always use O-W connections.
• If in doubt, contact a specialised design office.

- Installers should always provide sufficient ballast depending on the situation. If in doubt, contact a specialised design office.

- Avasco can never be held liable if assembly materials not supplied by Avasco are used.