



Fix2000 / Fix2000 KlickTop

Features and Benefits

- Custom manufactured fastening element for trapezoidal sheet metal roofs
- Attaches quickly and easily with four self-drilling, self-sealing screws
- Penetrates directly into the corrugation — not the roof substructure

The **Fix2000** is a proven fastening element, custom manufactured for trapezoidal sheet metal roofs. Made of high-quality stainless steel, the Fix2000 uses four self-drilling, self-sealing screws to secure the device to the system resulting in an even distribution of forces on the roof structure. The Fix2000 penetrates directly into the corrugation and not into the wooden or steel substructure of the building.

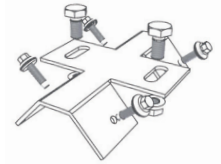
Fix2000 with the KlickTop Connection

The addition of the KlickTop to the Fix2000 results in material cost and time savings. The Klicktop eliminates additional on-site assembly by allowing for quick connection of the rails to the Fix2000 attachment.

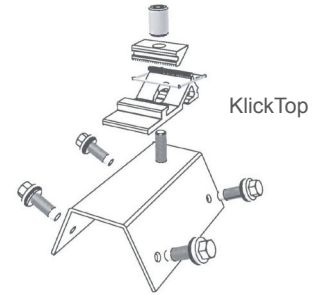
Please note: Distances between clamps in ridge-eaved direction have to be measured precisely as there is no adjustability once the screws are placed. However, it is easy to align them using a string or chalk line.

With glass-glass laminates, it is recommended to not begin installation of the mounting system until the modules have been received and are ready to be installed, since clearances can depend upon the modules. Refer to module manufacturer for additional information.

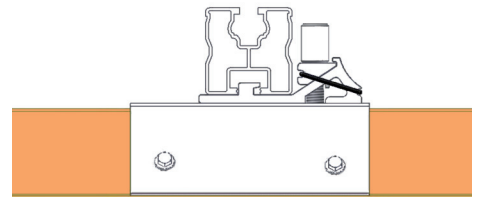
➔ Refer to Fix2000 Checklist for ordering instructions



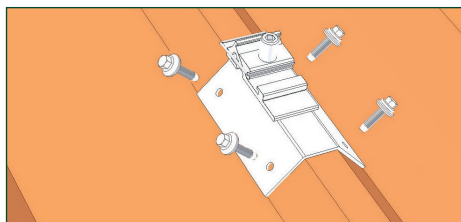
Fix2000



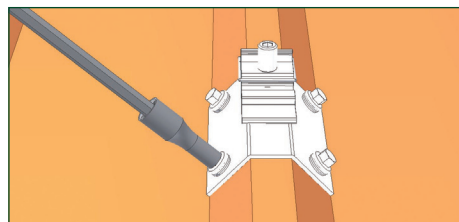
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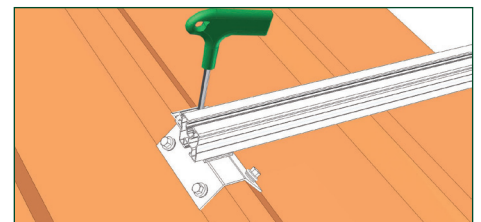
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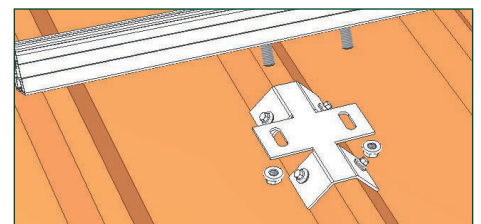
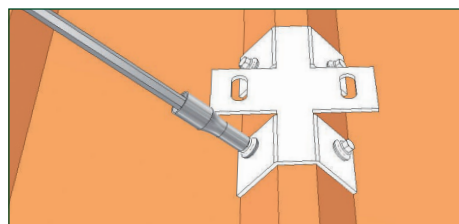
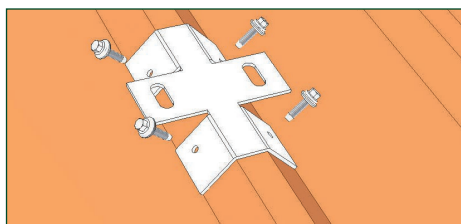
1 Fix2000 connection



2 Fasten with self-drilling screw until a slight pressure on gaskets occur. Using a depth-stop is suggested.



3 If using the KlickTop, the rail may be connected directly and tightened with Allen wrench. If using Fix2000 without the KlickTop two hex screws and M10 nuts are installed and tightened from above (lower image above).





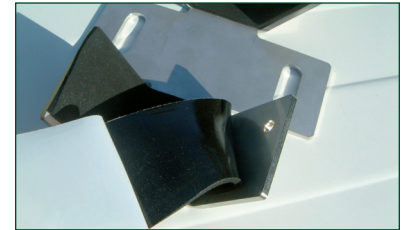
Technical Considerations

Assembly

- To ensure accurate transfer of compressive forces, the clamp should be in contact with the roof on all three sides while the plate is being screwed into place.
- The screws should be secured so that they are not able to strip out at any time during installation.
- Screws should not be uninstalled and reinstalled in the same location.
- The roof should be able to bear the additional weight of the PV system.
- The sheet metal thickness for steel roofs must be at least 24 gauge while aluminum roofs must be at least 20 gauge.
- The attachment of the trapezoidal sheet metal to the roof must be able to accommodate the uplift.
- Ensure that the components are accurately attached to the roof to avoid overlap.
- For better distribution of forces when using Fix2000 (not KlickTop) use two sets of M 10 bolts.
- Note that the rail connector does not fall on the ridge of the trapezoidal sheet metal.
- The KlickTop fits with the Eco05, Solo05, Profi05, and ProfiPlus profiles.

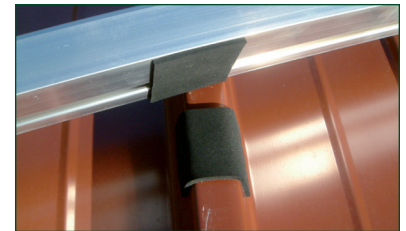
Sealing

- The screws are fitted with seals to prevent water from entering the bracket.
- Note that in extreme weather conditions water can rise up into the bracket from below the holes.
- Rising water into the bracket does not cause corrosion problems due to the stainless steel sheet metal used.
- To prevent residual leakage in single-layer trapezoidal metal sheets, use an EPDM rubber mat (available separately) on the inner seal before assembly.
- Note that with trapezoidal sheet metal roofs, condensation is more of a problem than small leakage.



Structural Analysis

- To determine the forces for the Fix2000 on a trapezoidal roof, structural analysis methods are used (with the addition of roof edge dimensions).
- When determining maximum snow load, the weight of the PV system should be taken into account. If the PV system will cover the entire trapezoidal roof, pressure-resistant rubber should be used at every junction point.
- Wind uplift calculations will determine how the clamps will be arranged. It may be useful to stagger clamps.



Technical Data

Material	Fasteners: stainless steel 1.4301; bolts: stainless steel
Shape	Suitable for all standard trapezoidal sheet metal designs and overlapping elements
Structural Analysis	Calculations in accordance with current national standards Systems should be designed with the appropriate number of mounting points, based on structural analysis.
Ordering	Use the required checklist and Schletter calculator to determine the system requirements and cost.

System price and layout can be determined quickly and easily with the Schletter calculator!