

Mounting methods: FlatFix Fusion – Alkorsolar

There are two methods of attaching a FlatFix Fusion system to a Alkorsolar roof anchor. The method depends on the position of the PV system in regards to the roofing membrane. Both methods will be described below.

Method 1: Modules parallel with the roofing membrane.

Fixate the Alkorsolar roof Anker to the roof according to the specifications of Renolit. Place the Omega-bracket over the FlatFix Fusion base profile and on the Alkorsolar roof anchor. Make sure that the slotted hole is centered with the center of the FlatFix Fusion profile and the Alkorsolar roof anchor. Fasten the Omega-bracket to the Alkorsolar roof anchor using self-tapping sheet metal screws 6,0x25mm (art. nr.100-3010). Place the sliding bushing in the slotted hole and fasten the Omega Bracket to the FlatFix Fusion profile using self-tapping sheet metal screws 6,0x25mm (art. nr.100-3010). The sliding bushing in the slotted hole will allow for thermal expansion and contraction of the PV array. Make sure the screws go in straight. Do not overturn the screws, as soon as the rubber on the screws distorts slightly the screw is fasten correctly. See below pictures and appendix for details.

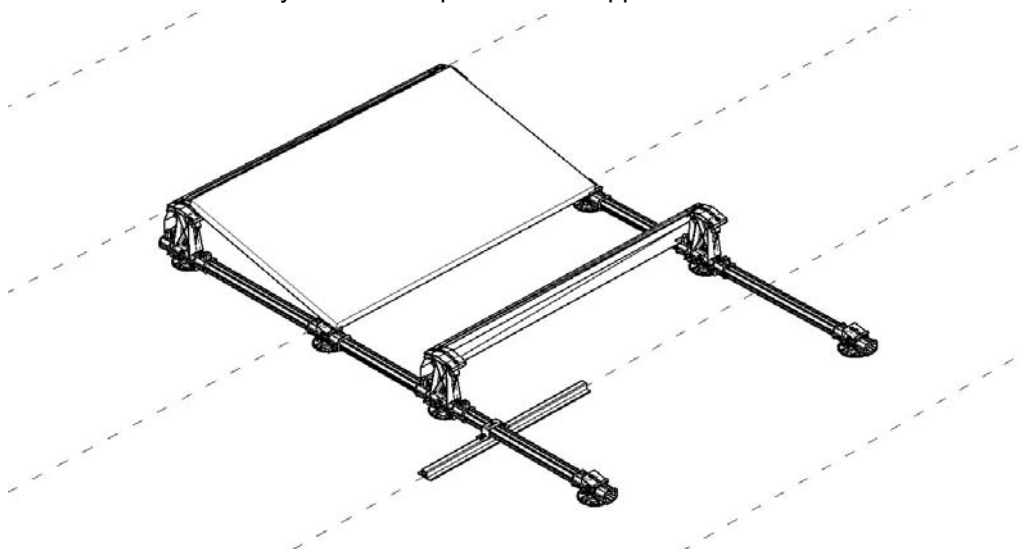


Fig 1. Overview

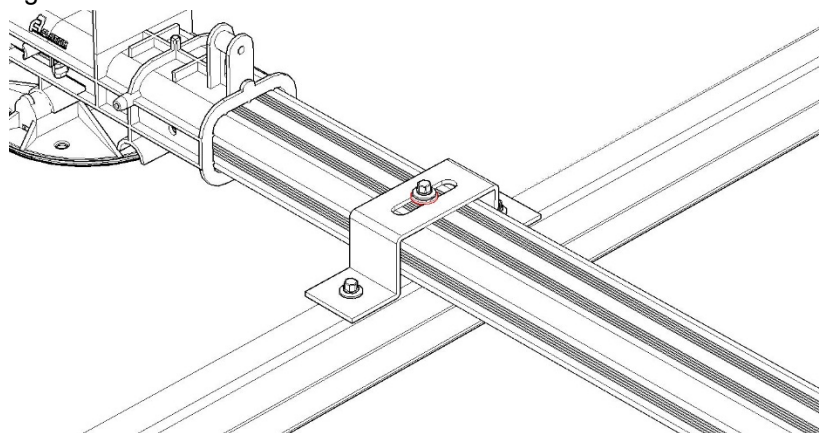


Fig 2. Mounting detail

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Method 2: Modules perpendicular to the roofing membrane.

Fixate the Alkorsolar roof Anker to the roof according to the specifications of Renolit. Place the L-brackets on the Alkorsolar roof anchors. Fasten the L-brackets to the Alkorsolar roof anchors using self-tapping sheet metal screws 6,0x25mm (art. nr.100-3010). Place the U-profile over the FlatFix Fusion base profile. Make sure that one of the slotted holes is centered with the center of the FlatFix Fusion profile. Place the sliding bushing in the slotted hole and fasten the Omega Bracket to the FlatFix Fusion profile using self-tapping sheet metal screws 6,0x25mm (art. nr.100-3010). The sliding bushing in the slotted hole will allow for thermal expansion and contraction of the PV array. Fasten the U-profile to the L-bracket using self-tapping sheet metal screws 6,0x25mm (art. nr.100-3010). Make sure the screws go in straight. Do not overturn the screws, as soon as the rubber on the screws distorts slightly the screw is fasten correctly. See below pictures and appendix for details.

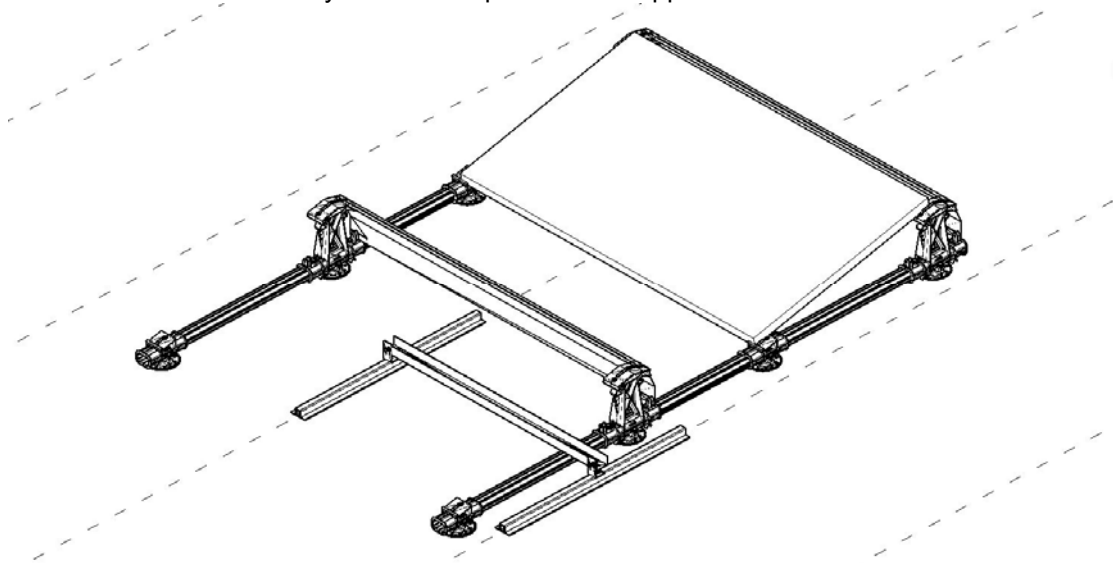


Fig 3. Overview

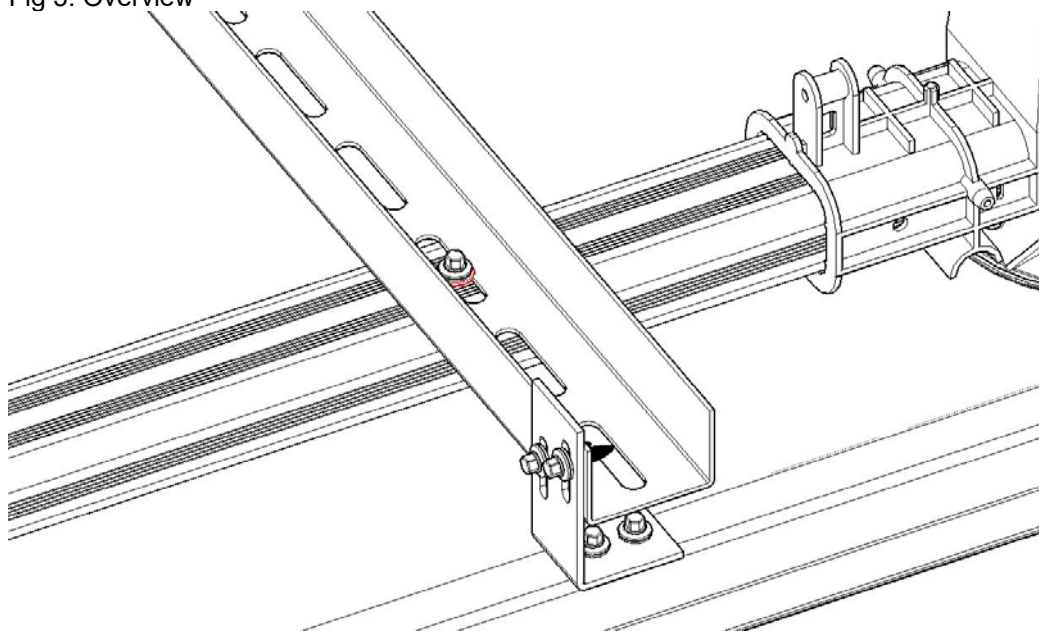


Fig 4. Mounting detail

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Appendix

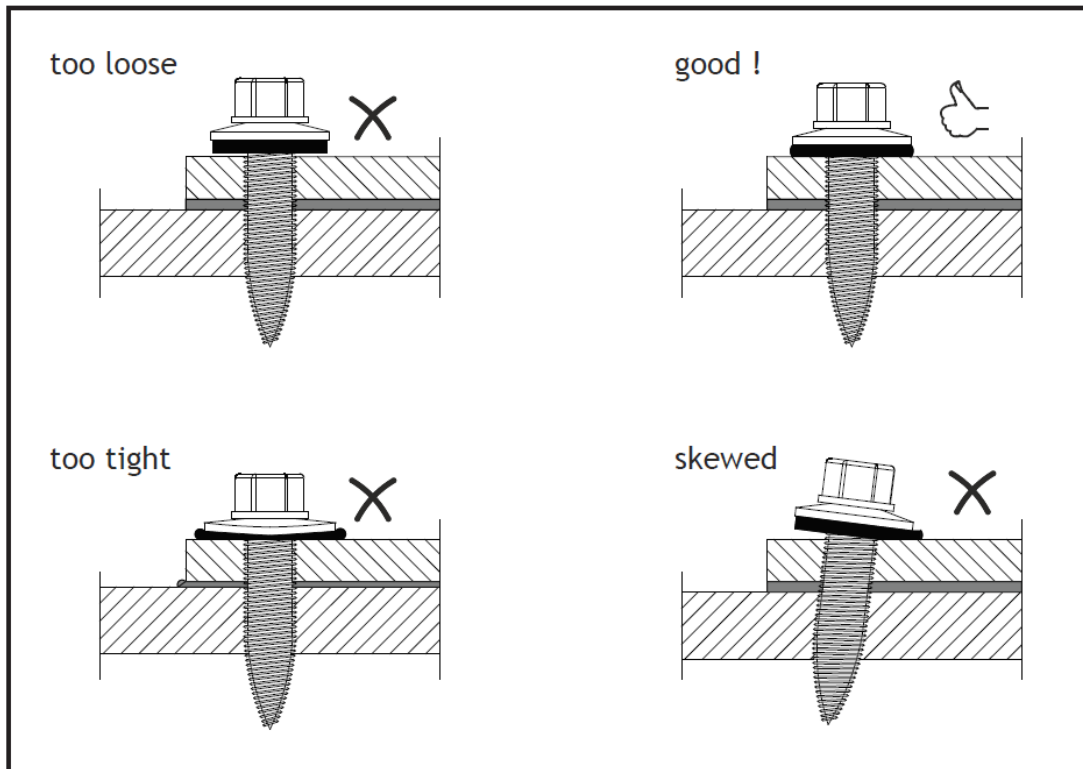


Fig 5. Screw fastening.

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