



Patent Pending

*Your **sole** supplier for residential solar mounting solutions*

We are grateful you have chosen our Sol Attach product for your tilted roof solar needs. We believe you will not only find that our product is the most economical and aesthetically pleasing solution for your company, but also that with these simple instructions will prove our product is the easiest mounting solution on the market.

Installer Responsibilities:

To be assured that the Sol Attach mount is used correctly, it is necessary that installers follow these guidelines. To disregard them will void the limited manufacturer's warranty and may prove hazardous.

1. Have the system designed by a qualified professional who takes into consideration snow load, wind speed, necessary pull out strengths of fasteners, types of substrates, and structural integrity of the building to which the array is being mounted.
2. It is incumbent upon the installer to perform a pre-installation inspection of the building roof structure and to insure that it is sound and adequate to support the weight of the array and that the Sol Attach mount chosen is the correct product for the job. It is also the installer's responsibility to insure that the roof substrate and rafters are in good condition and that the mounting feet are adequately secured to the substrate or rafters according to local and national building codes.
3. The installer is responsible to obtain all necessary building permits and comply with all local and national building codes.
4. Chose and use appropriate sealants and or flashings in accordance with the respective manufacturers' particular instructions and guidelines.
5. Only use parts included with the Sol Attach mount purchased and insure that the Sol Attach mounts have not been damaged in shipping or storage or transit to the jobsite.
6. Insure the mounting feet set flat on the roofing surface. In the event that it is necessary to trim part of the top layer of a shingle so the foot does not rock or set unevenly, it is the installer's responsibility to insure it is trimmed and sealed in accordance with approved roofing techniques and guidelines.
7. Insure that the Sol Attach mounts chosen and installed do not compromise or hinder the proper installation of the photovoltaic electrical system.
8. These instructions do not address wire management. It is the installer's responsibility to secure wiring in accordance with the module manufacturers' instructions as well as local building codes.
9. These mounts are not intended to ground the photovoltaic modules or system. Each module must be grounded to each other with bare copper wire according local building codes.

Top Mount

End-clamp assembly

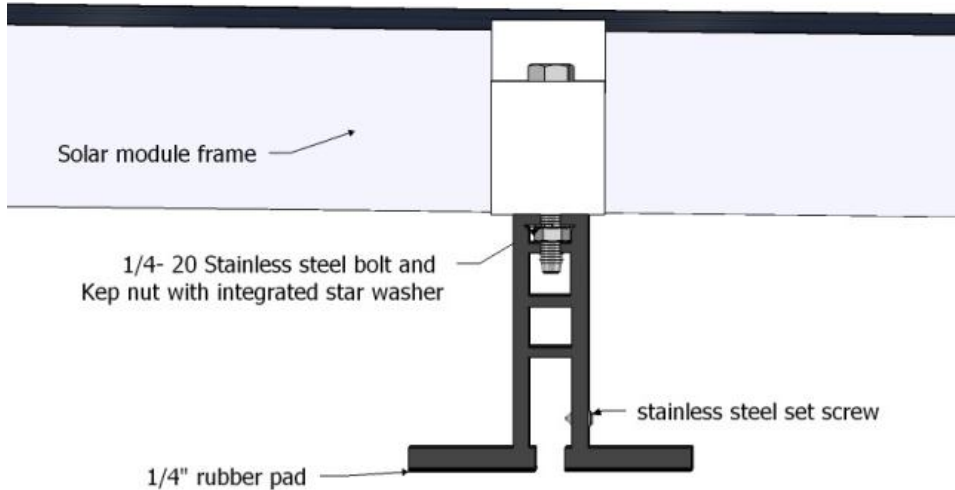


Fig 1

Mid-clamp assemblies

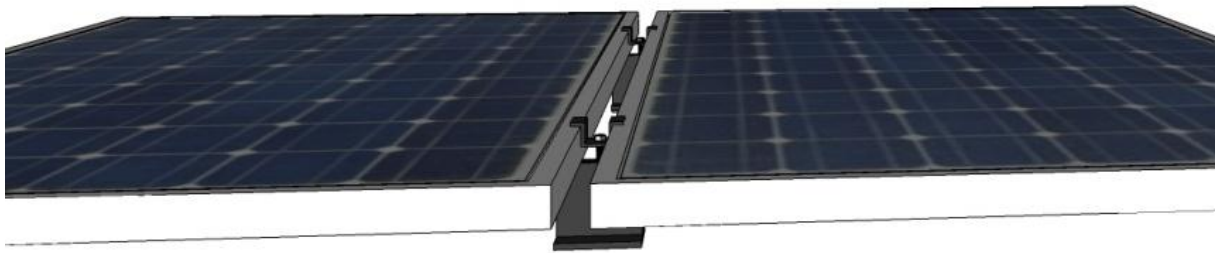


Fig 2

The Sol Attach end-clamps and mid-clamps are much like “traditional” rail system clamps. However, instead of using t-bolts which stick upward and give a rather unfinished look, the Sol Attach system uses 1/4” bolts which are screwed downward into the clamps when they are tightened.

- First, insert the bolt end down through the appropriate sized end-clamp or mid-clamp.
- Then turn a Kep nut, containing a grounding star washer, loosely onto the end of the bolt.
- Finally, slide the Kep nut/ bolt assembly into the top groove of the Sol Attach mount and tighten once the modules are in place.

Standing Seam Installation Description

1. Position mounting feet on roof, parallel to the roof ridge (fig 3). Press the mounting feet down flat to the roof and secure the mounting feet by tightening the set screws against standing seam.

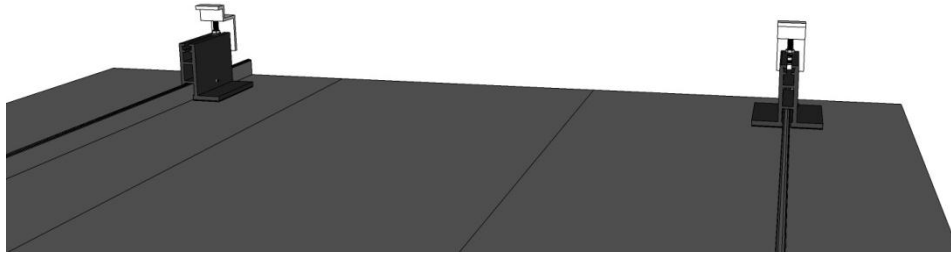


Fig 3

2. Add two more feet parallel with upper mounting feet. Position them so that the module frame will land on these feet one inch from the upper edge of the mounting feet (fig 4).

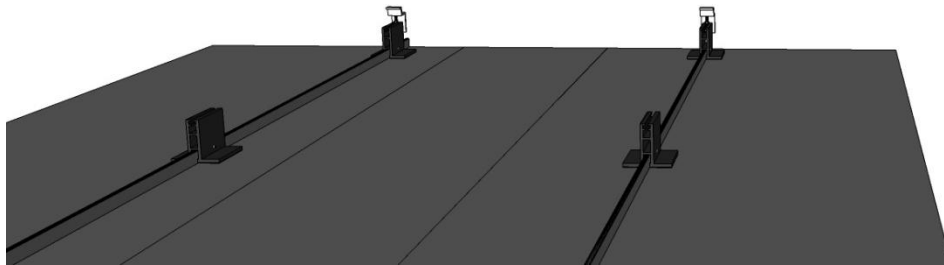


Fig 4

3. Install module firmly up against end-clamps (fig 5). Tighten end-clamps against module frame and then tighten upper flange nuts against mounting feet to stabilize the end-clamp against upper end of mounting feet (figs 1, 2).

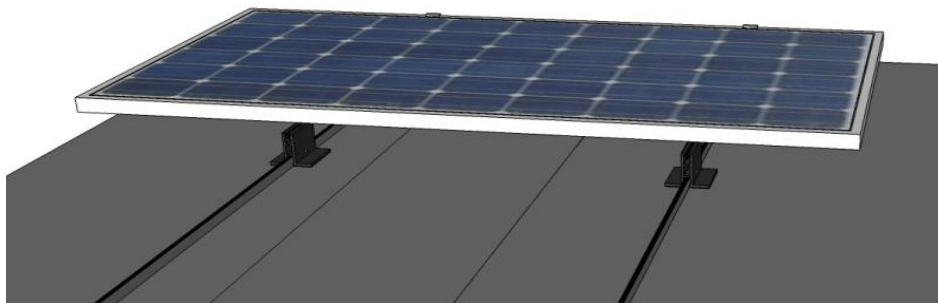


Fig 5

- Secure two more mounting feet parallel with first mounting feet. Position these feet so that the next module will land on them at one inch from the upper end of the mounting feet (fig 6).

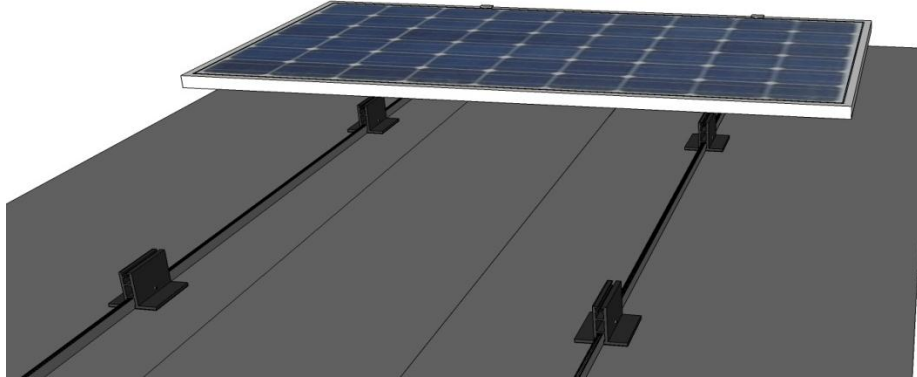


Fig 6

- Add two mid-clamps tight against first module. Add second module tight against mid-clamps. Tighten mid-clamps against both modules (fig 7).

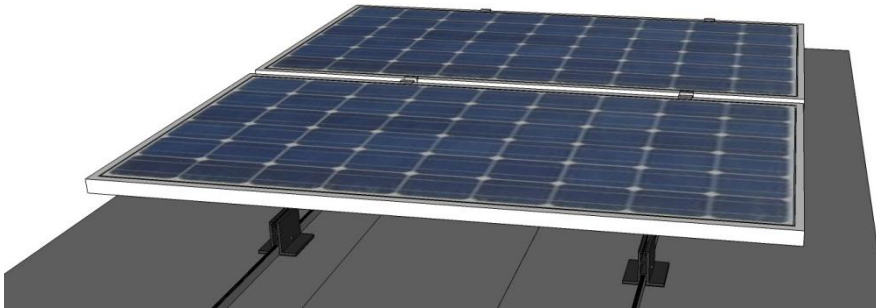


Fig 7

- Repeat process in steps 5 and 6 for each module of first column. Install final panel with two end clamps at the bottom following the process in steps 1 and 2.

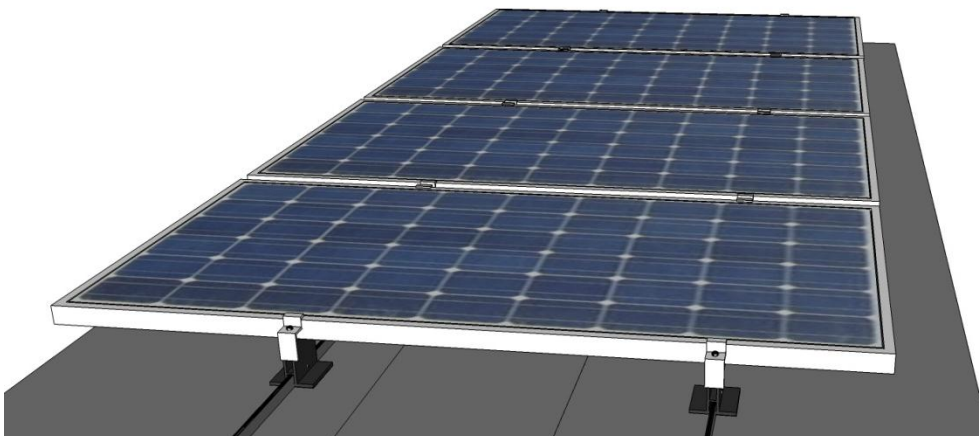


Fig 8