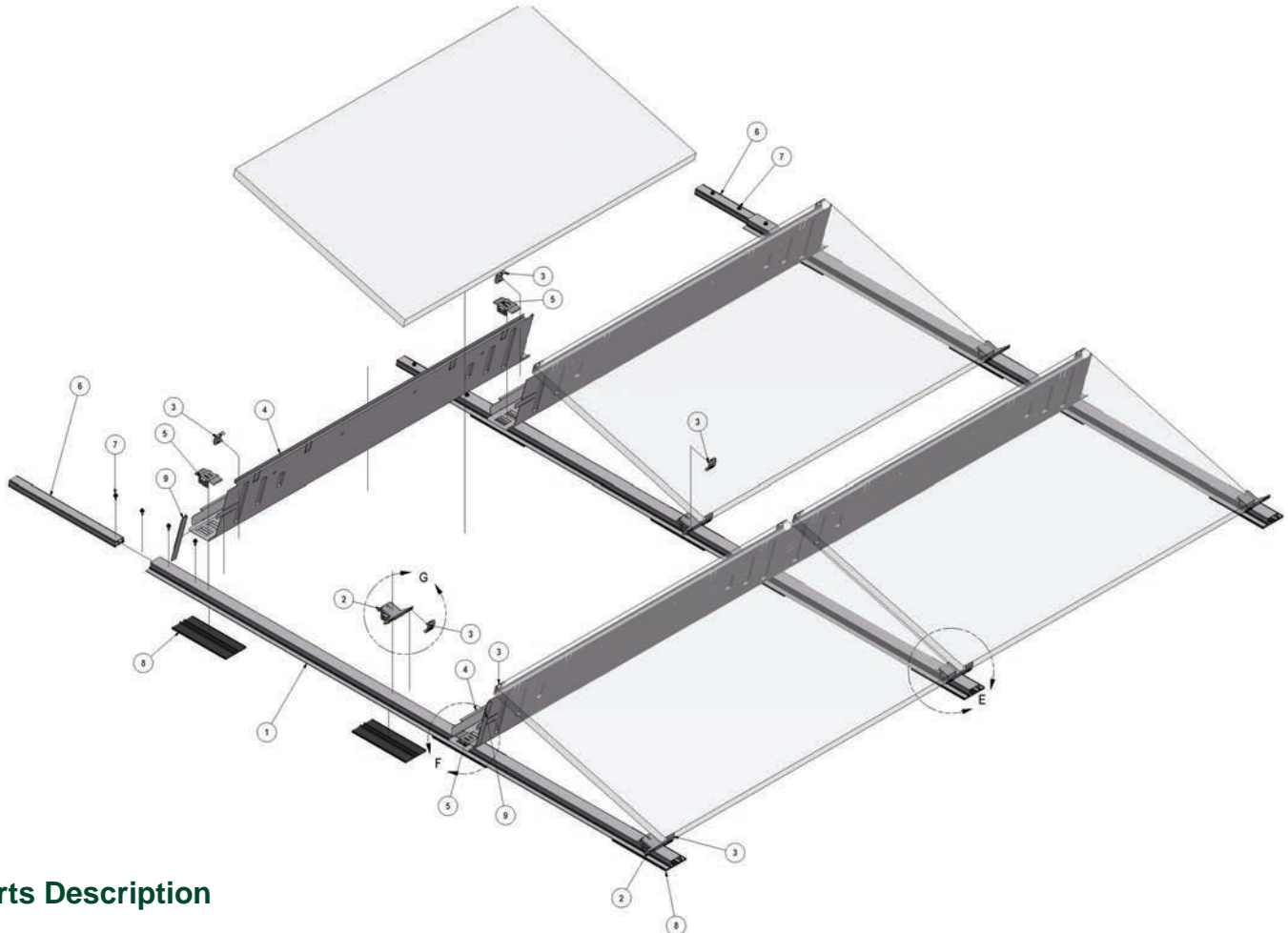


AluGrid

Solar Mounting System for Flat Roof Applications

The following instructions offer a guide to installing the AluGrid solar mounting system for flat roof top applications. More information on the AluGrid may be found in the **AluGrid product sheet**. Please review the list of components to become familiar with the system before installing.



Parts Description

- 1 AluGrid Rail
- 2 AluGrid Bottom Support
- 3 AluGrid Module Clamp (clamps available for modules with thicknesses from 30 to 50 mm)
- 4 AluGrid Windsafe
- 5 AluGrid Fastening Clamp
- 6 AluGrid Splice*
- 7 Self Drilling Screws*
- 8 AluGrid EPDM Support
- 9 AluGrid Stiffener

*Connector and self drilling screws are sold in a kit as needed, depending on number of rows in design.

- **AluGrid Product Sheet**
- **AluGrid Tool Instructions**

AluGrid Assembly

Install protective barrier on roof. If surface mats are used, place on roof first. If using the provided EPDM support, attach to rail bottom.



Position rails. Arrange the rails parallel to each other with an axis distance of one module width apart, plus an additional inch of space. The rails must be aligned with the front edge squared.



Interconnecting rows. If the design calls for rails to be connected (as in the image on first page), it is accomplished using an AluGrid splice (Item #169005-001), ordered separately. To install splice, insert six (6) inches into one rail end, securing in place with two self-drilling screws. Insert next rail onto splice, securing with two additional self-drilling screws.



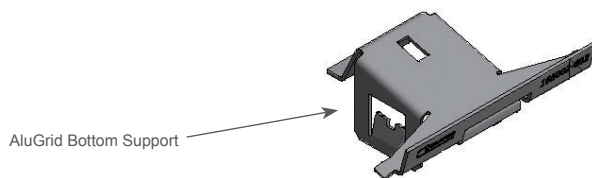
Each splice must have four self-drilling screws when this step of installation is complete.



Install bottom supports of modules. Mark the connection locations of each bottom support, taking care to keep locations in-line on each rail. To install bottom supports, simply snap them into place over each rail.



For configurations that have multiple rows of modules, care should be taken to avoid module shading from other rows.



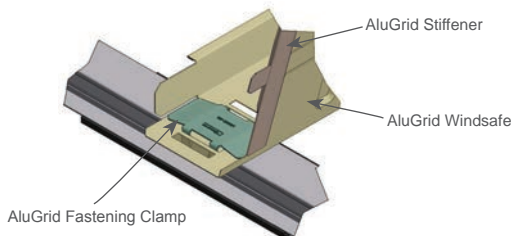
AluGrid Bottom Support

Install rear Windsafe and fastening clamps.

On rails, mark necessary position for rear Windsafe™ sheet based on module size. Working from outer row edge, place the Windsafe metal sheet in position and secure in place with small rear fastening clamp.

Slide the second Windsafe over the first, threading into place. The first metal sheet must be in back of the second. Align Windsafe metal sheets laterally.

When the two Windsafe sheets are in position, place a fastening clamp over both, stepping down on clamp to secure it in place. A rubber mallet may be needed to create a snug fit.



Repeat AluGrid Windsafe installation as needed until end of rails.

Install AluGrid Stiffener. Place stiffener over the last Windsafe when end of row is reached, using a rubber mallet if needed. Secure in place by bending tab around edge with pliers.



Module Mounting

Position lower edge of module over AluGrid bottom support. In order to install module cables, module must be held in position until cable clips and cables are installed.



Connect module cables. Press in cable clips (sold separately) into the inner side of Windsafe metal sheet. Follow with appropriate cables.



Lay modules on upper edge in groove of AluGrid Windsafe. When modules are in place bend tabs, located on upper outer edge of Windsafe, around module frame.



Clamp modules. Fasten the module clamps using the AluGrid module clamping pliers. Each module **must** be installed with four clamps.

Please note:

- The loading must be chosen according to the values that are specified in the super-imposed load calculation. Pavers up to 4 inches wide can be used.
- Loading material is not included the AluGrid system.
- The remaining load-bearing capacity of the building must be higher than the calculated distributed load of the system.

