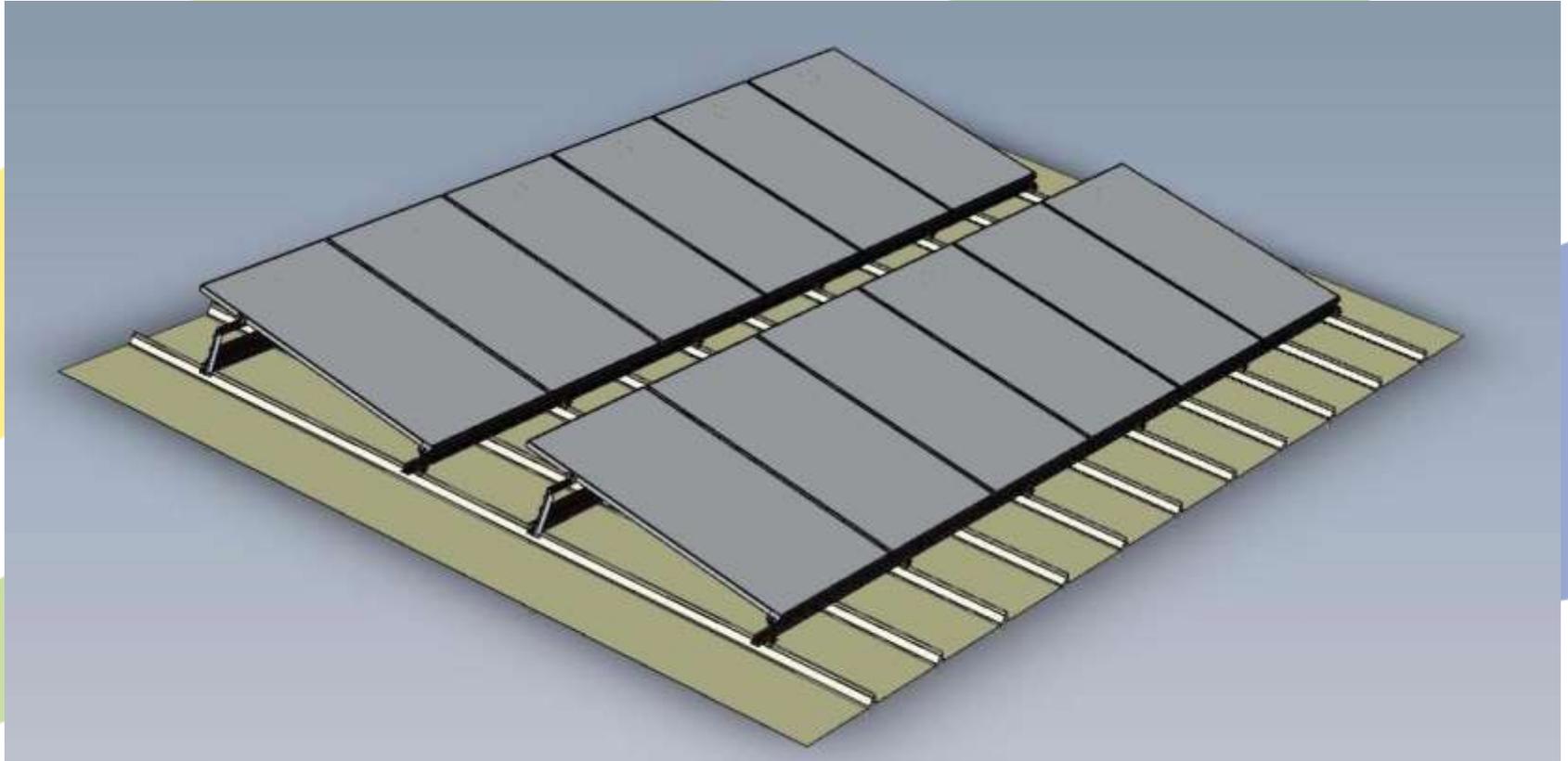


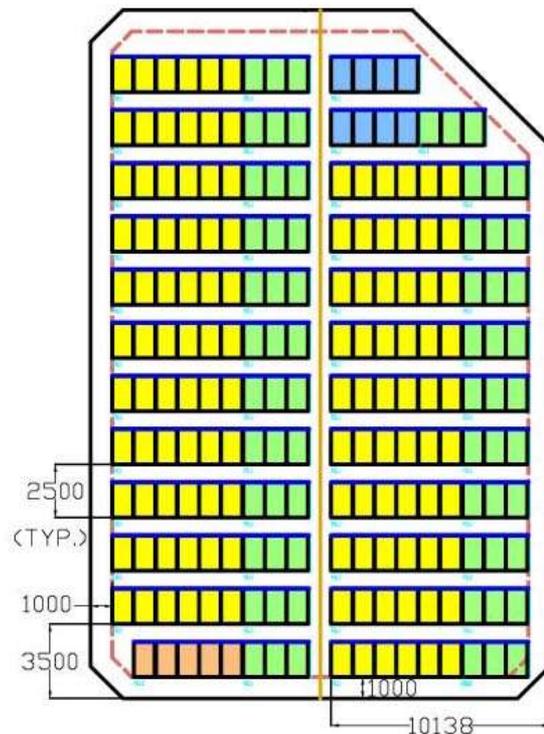
VICERACK – Portrait/Cantilevered Installation Field Guide



MODULE LAYOUT

BEFORE YOU BEGIN MAKE SURE YOU HAVE THE CURRENT MODULE PLAN

- Mark the starting point by installing string lines using the dimensions provided on the drawing.
- The string lines will create an axis allowing you to plot 1 full row of Racking units.
- Once this row is installed, adjacent rows can be installed square in the N/S direction.



Crimp seams if necessary to get the S-5! clamps to fit over the seam and sit flat.

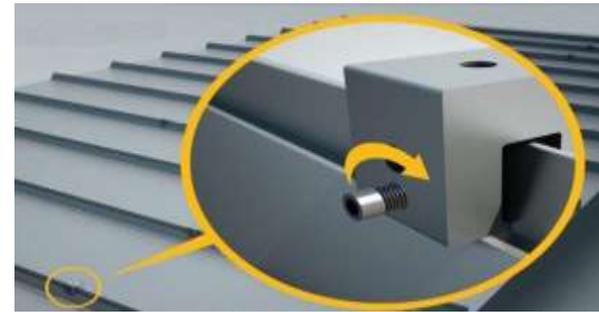


LAYOUT & S-5! CLAMPS

(13N·m, 10ft·lb)



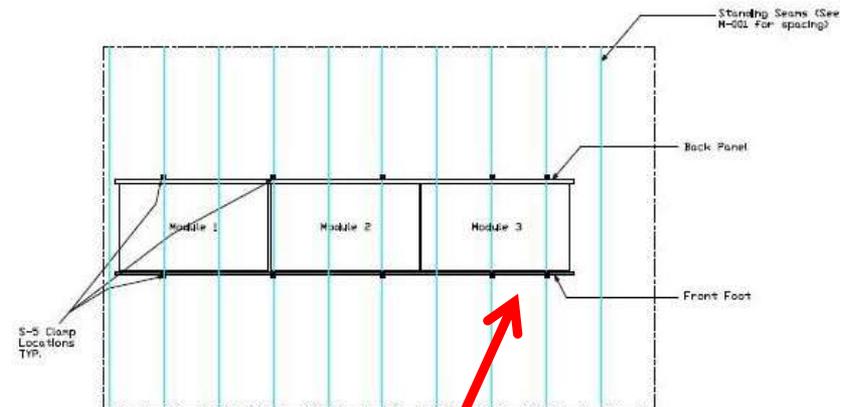
- Use a String Line to mark the location points for the S-5! seam clamps.



Fasten the S-5! clamp by tightening the set screw located on the side of the clamp. The bit used to fasten the clamp is included in packaging from S-5!



S-5! clamps are typically installed on every 2nd seam. At the end however, the S-5! clamp must be installed on the last seam (both ends of the racking unit). In some cases this may require clamps to be 'doubled up' (ie. Clamps installed on two consecutive seams).



S-5! clamps 'doubled up'

S-5! CLAMP TO FRONT FEET

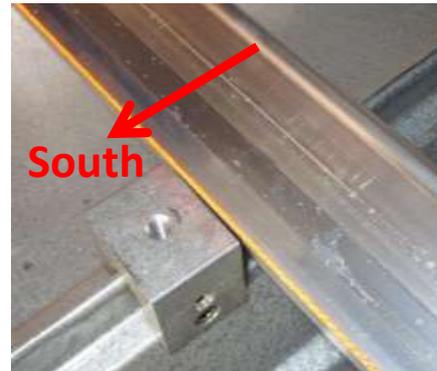
(13N·m, 10ft·lb)



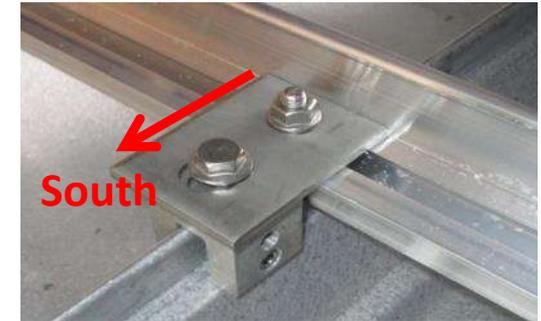
Front Foot Connection hardware includes:

- Flat Plate
- T-Bolt & Nut
- S-5! Bolt (supplied by S-5!)

Note: Same components are used to connect the Rear Wind Deflector assembly



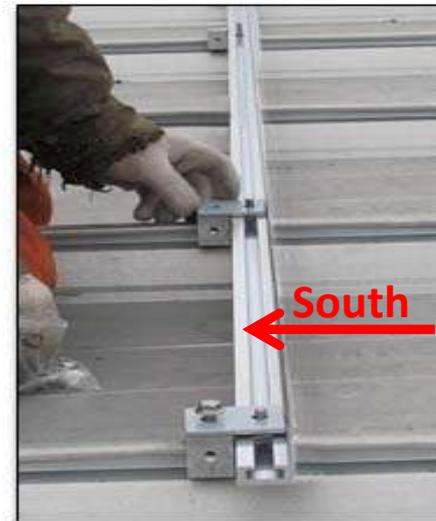
Place the S-5! against the Front Foot so the clamp makes contact with the Front Foot. Make sure the front foot is installed with the channel facing south.



Place the connection plate on top of S-5! Clamp. Line plate edge flush with the top bead of the Front Foot. Attach slotted end of plate to S-5! and "hole end" of plate to front foot using t-bolt.

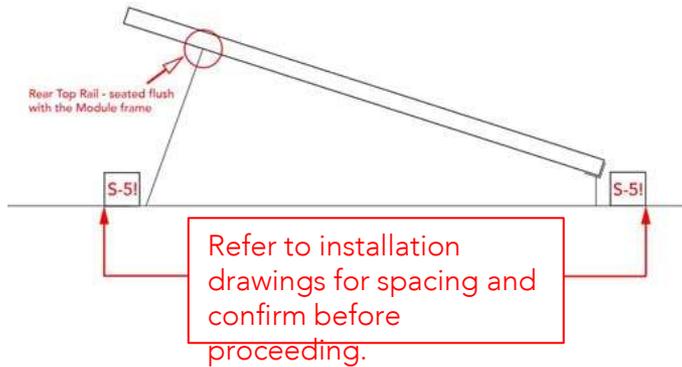


Important: keep overhang distances the same, front and back. Otherwise PV Modules will not line up with the Module Clamps.



Front foot with S5! clamps every other seam and doubled up at end of row.

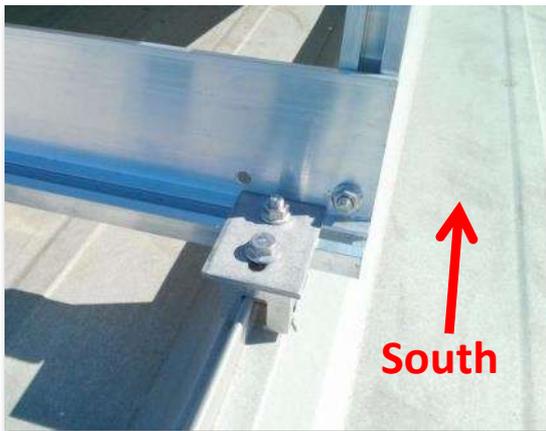
LAYOUT & S-5! CLAMP TO REAR FOOT (WIND DEFLECTOR ASSEMBLY) (13N·m, 10ft·lb)



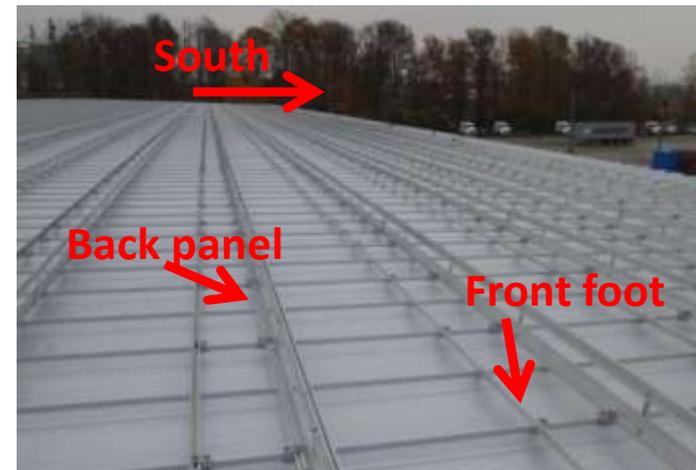
S-5! spacing is taken from leading edge of each S-5! clamp. It is important to check the fit of the PV Module once your first Racking Unit is assembled on the roof. The Rear Top Rail should sit flush with the Module frame.



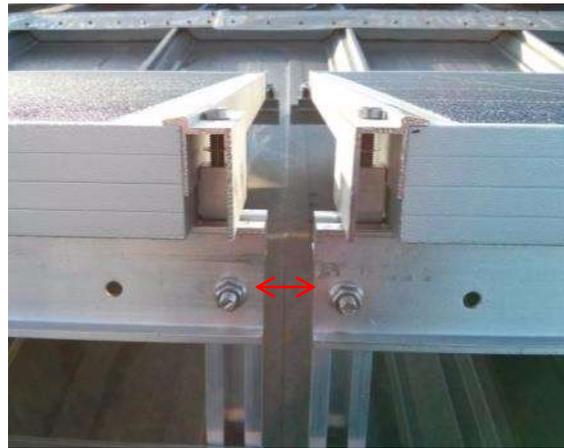
Back panel showing S5! connection to seam.



- Make sure the overhang on the Back Panel is the same as on the Front Foot.
- Once the Back Panel has been tightened it will stand by itself, ready for PV Modules.



RACKING UNIT SPACING



Leave a 3/4" gap between Racking Units, at both Front Foot and Rear Wind Deflector locations.



It is important to match the overhang distance between Front and Rear Feet in order to line up top and bottom module clamps.

SADDLE CLAMPS (FRONT FOOT MODULE CLAMPS)

(17-23N·m, 13-17ft·lb)



***NOTE* West and East Saddle Clamps are different and are NOT INTERCHANGEABLE.**

Saddle Clamps snap onto the top bead of the Front Foot. These clamps allow the modules to be seated in place, while adjusting them to square.

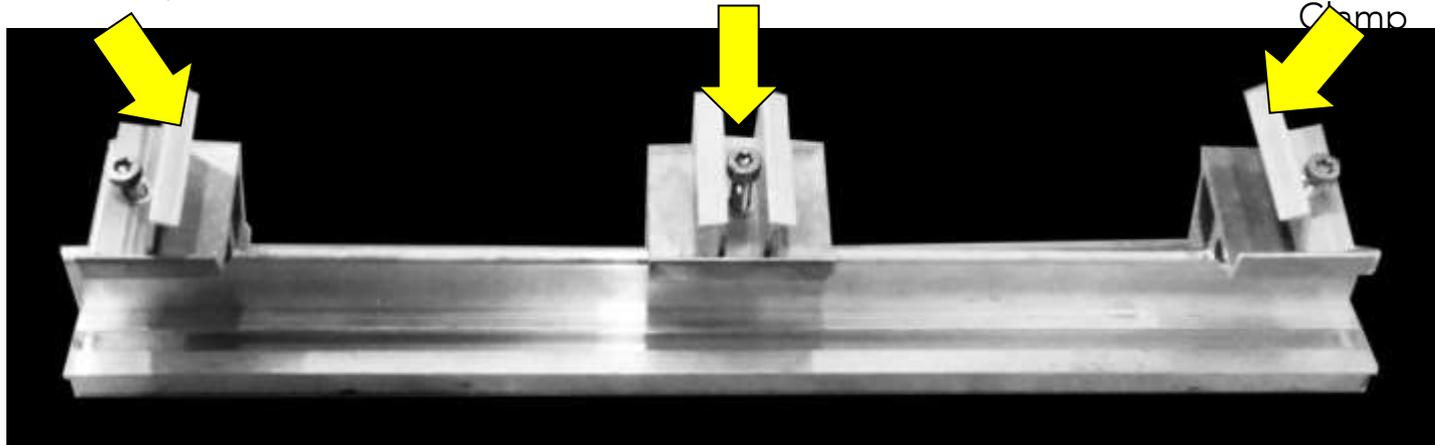
Do not tighten these clamps until the neighboring modules are in place.

All Module clamps use Torx40 bits

West Saddle Clamp

Mid Saddle Clamp

East Saddle Clamp



CLIC-LOC CLAMPS (REAR MODULE CLAMPS)

(8-10N·m, 6-8ft·lb)



It is important to leave no less than .25" from the end of the Top Rail, to the leading edge of the Clic-Loc Clamp

- The module frame should always make full contact with the inside edge of the Clic-Loc End Clamp, to ensure the intergraded Bonding Nodes are properly embedded in the module frame.
- The outside edge of the clamp should also be flush with the outside module frame.
- Clic-Loc End Clamps are snapped into the Top Rail by pushing downwards on the clamp.
- Tighten the T-40 bolt to the suggested torque spec.



- Once the Clic-Loc End Clamp is secure and the module is in place, position the Clic-Loc Mid Clamp flush with the module frame surface.
- Clic-Loc Mid clamps are snapped into the Top Rail by pushing downwards on the clamp.
- Tighten the T-40 bolt to the suggested torque spec.

It is important to square the first module accurately to ensure all neighboring modules will line up correctly.

It is suggested to leave all remaining Top and Bottom module clamps in the Racking Unit loose in case adjustment is needed once you reach the end of the Racking Unit.

INSTALLING & BONDING/GROUNDING RACKING UNITS



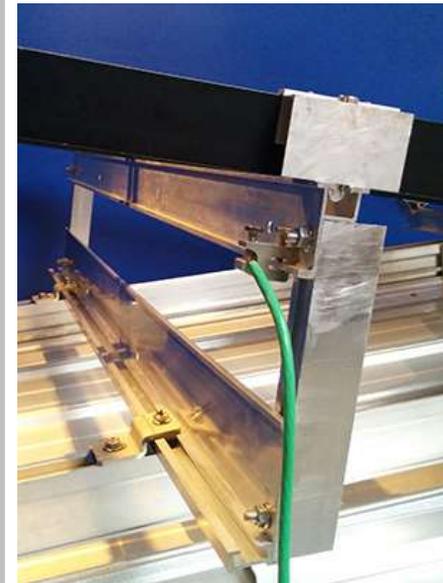
Racking Units are manufactured to accommodate multiple modules. Your installation drawing (M-001) will indicate where each Racking Unit type is plotted in the array design.

Modules in Portrait orientation should be installed with the junction boxes towards the back of the Racking Unit. This will allow for PV leads to be connected after installation.



Each Racking Unit must be bonded to the neighboring RU. SGB-4 Grounding Lugs are provided to connect a copper grounding wire between the Racking Units. (Copper grounding wire not supplied by ARS)

Connect the SGB-4 to the bottom lip of the rear Top Rail.



At the end of a Row of Racking Units, use the SGB-4 Grounding Lug to connect the copper wire down to the main/home run. (Copper grounding wire not supplied by ARS)