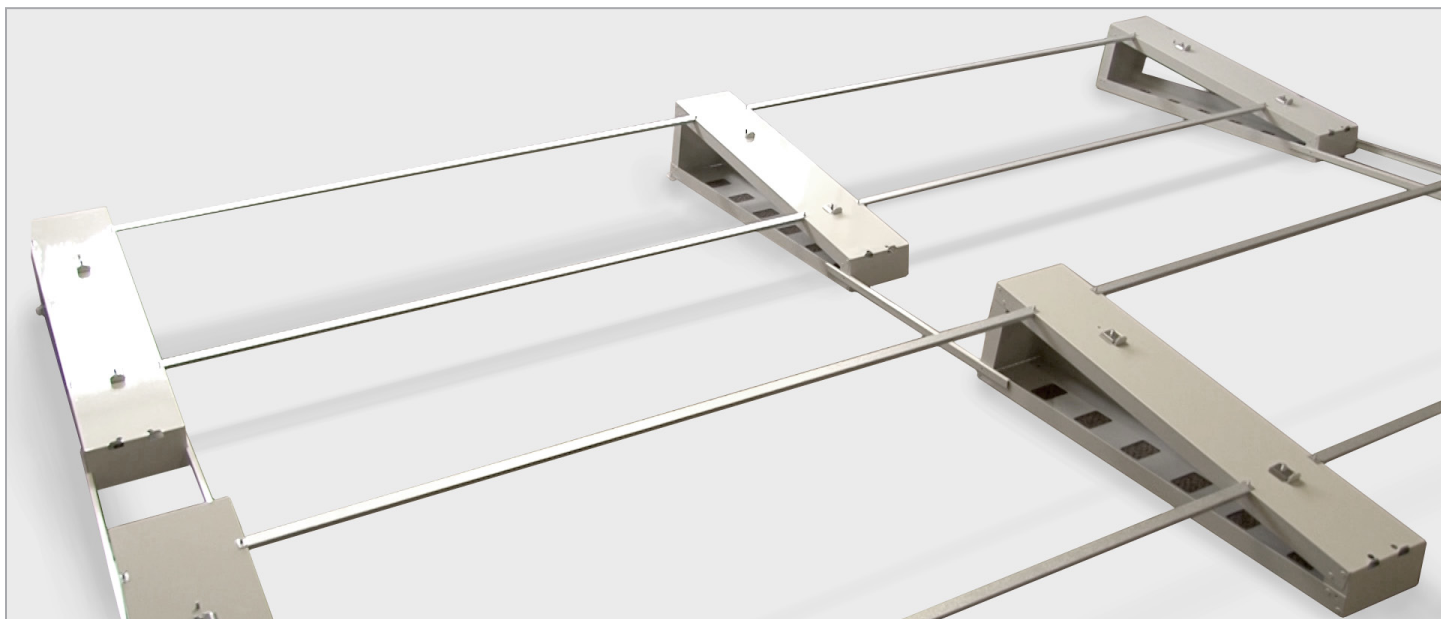




INSTALLATION GUIDE

5° & 10° End of Panel Clamping Ballasted Roof Racking System



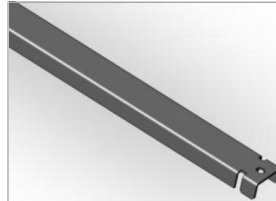
INCLUDED PARTS



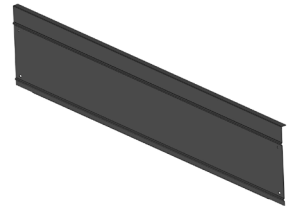
Mid Row Support



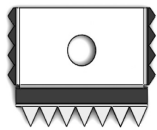
End-of-Row Support



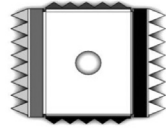
Center Brace



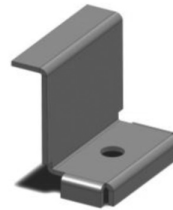
Deflector



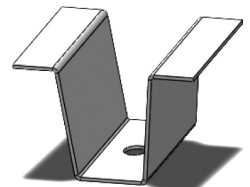
End Grounding Clip



Mid Grounding Clip



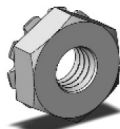
End Clamp



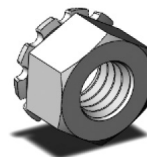
Mid Clamp



Row-to-Row Spacer



*10-32
Stainless Steel KEPS Nut*



*5/16-18
Stainless Steel KEPS Nut*

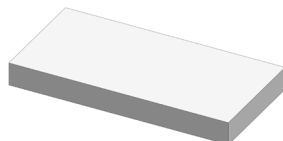


*10-32 x 1/2"
Stainless Steel Hex Cap Screw*

INSTALLER PROVIDED PARTS



*WEEBL-6.7
(Provided by Installer)*



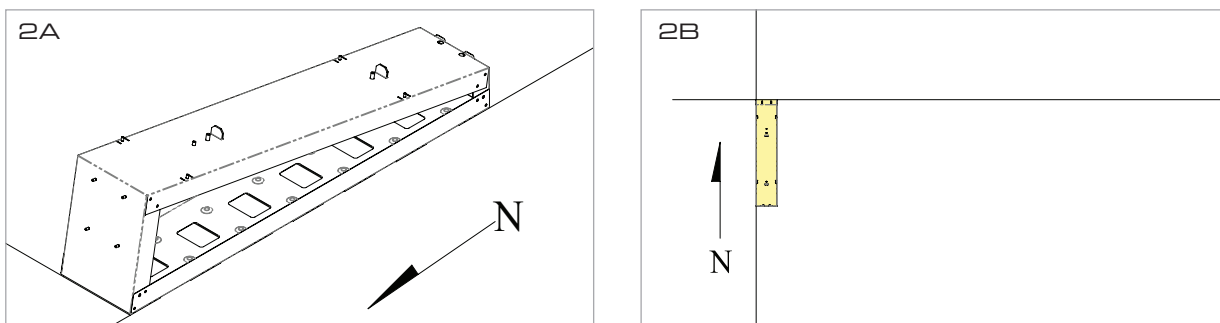
*8" x 16" NOM
Concrete Ballast Block*

FAST AND EASY ASSEMBLY

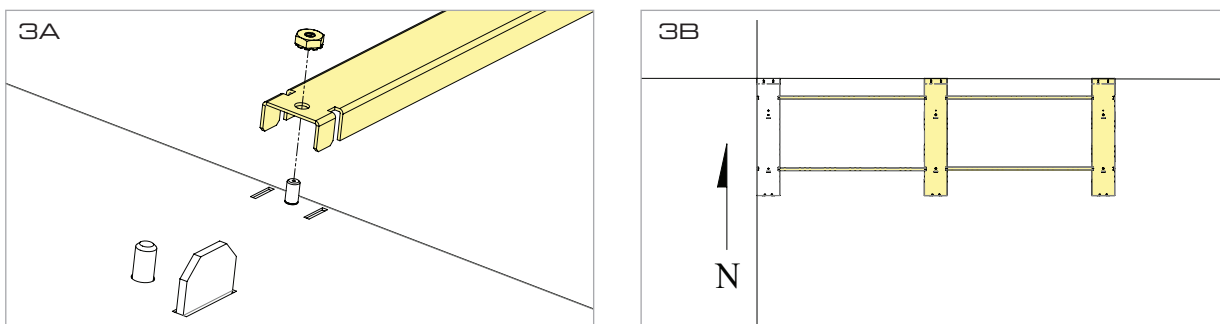
INSTALLATION

- 1 Snap chalk lines for the north and east or west edges per plan.

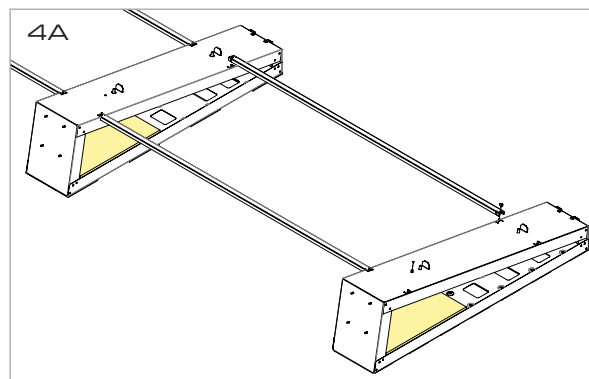
- 2 Place the North end of the first **End-of-Row Support** along your chalk lines in either the North-East or North-West corner of the array. The **End-of-Row Support** has an extra 1/4-20 stud for the **WEEBL-6.7 lug** as shown in diagram 2A.



- 3 Add (1) **Mid Row Support** using (2) **Center Braces** to establish the spacing between them. Secure the **Center Braces** using (4) of the provided **10-32 Stainless Steel KEPS nuts**; torque nuts to 28 in-lbs. Continue the row by adding another **Mid Row Support**, (2) **Center Braces** and (4) nuts. Repeat until only one more support is required to finish the row, that last support will be an **End-of-Row Support**. If there is a break in the row, use an **End-of-Row Support** on both sides of the opening.

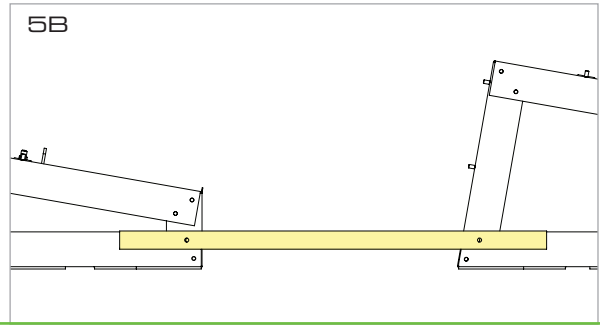
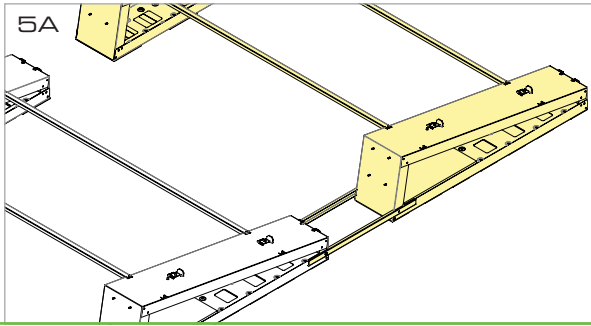


- 4 Add ballast into the **End-of-Row Supports** and the **Mid Row Supports** as required. Ballast to be placed inside the supports as shown in diagram 4A.



5

Begin building the next row south, as in steps 2 through 4, using the *Row-to-Row Spacer* as required establishing the location of the row. Number and location of spacers determined by engineering drawing. Attach each *Row-to-Row Spacer* using two of the *10-32 x 1/2 Stainless Steel Hex Cap Screw* tightening each to 28 in•lbs of torque.

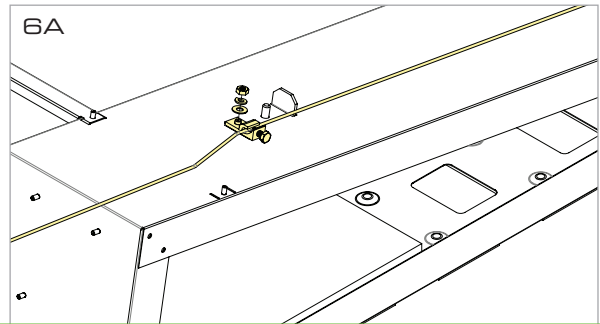


6

At the end of every row and at breaks within a row, install a *WEEBL-6.7 lug* with the stainless flat washer, split lock washer and nut provided with *WEEBL-6.7 lug* as shown in the figure 6A. Torque $\frac{1}{4}$ -20 nut to 10 ft•lbs. Run a copper equipment grounding conductor to each lug from row to row and between *End-of-Row Supports* at breaks in rows and torque bolt to 7 ft•lbs.

IMPORTANT: WEEBL 6.7 rated for one 14 AWG to 6 AWG or two 10 AWG, two 12 AWG.

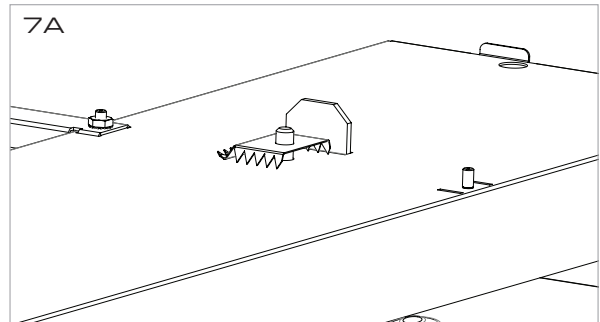
NOTE: Equipment grounding conductor size and quantity must be based on local and National Electrical Codes (NEC). Article 690, 250.



7

Place the *End Grounding Clips* on the threaded studs located on the *End-of-Row Supports*. Make sure the clips are oriented like shown in diagram 7A for proper grounding of the solar panel to the rack.

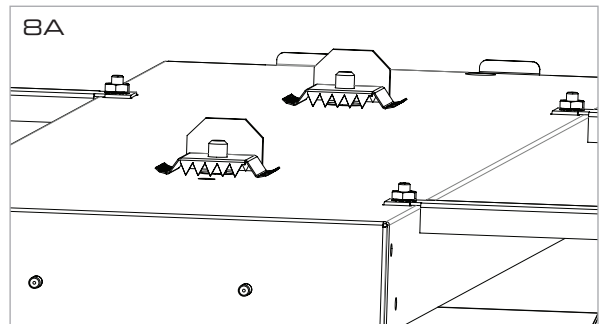
NOTE: The End Grounding Clips are sharp, handle with care to avoid injury.



8

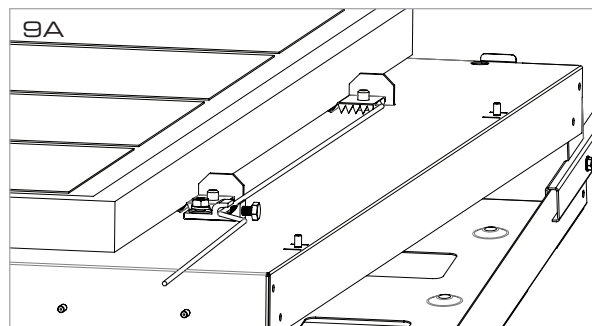
Place the *Mid Grounding Clips* on the threaded studs located on the *Mid Row Supports*. Make sure the clips are oriented like shown in diagram 8A for proper grounding of the solar panel.

NOTE: The Mid Grounding Clips are sharp, handle with care to avoid injury.



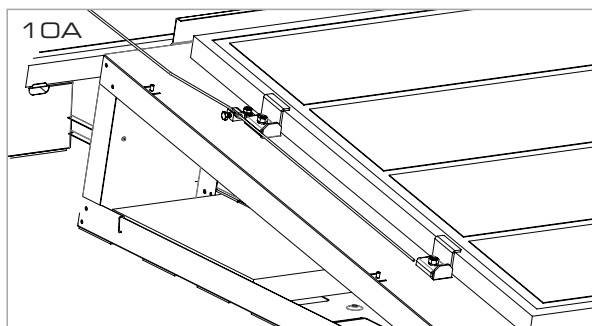
9

Install solar panels on to the racking system making sure that the sharp upward pointing teeth of the *End Grounding Clip* and the *Mid Grounding Clip* are under the edge of the panel.



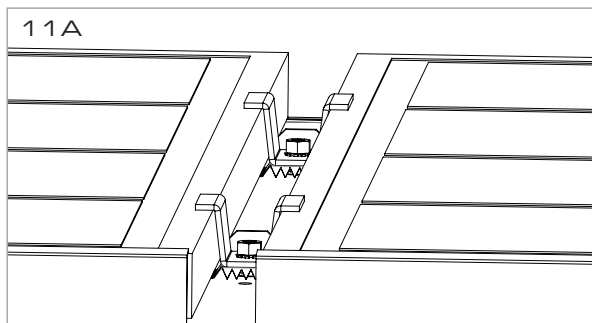
10

After installing the solar panels, place the *End Clamp* on the *End Grounding Clip* located on the *End-of-Row Support*. Add the *5/16-18 Stainless Steel KEPS Nuts* and tighten to 13 ft•lbs.



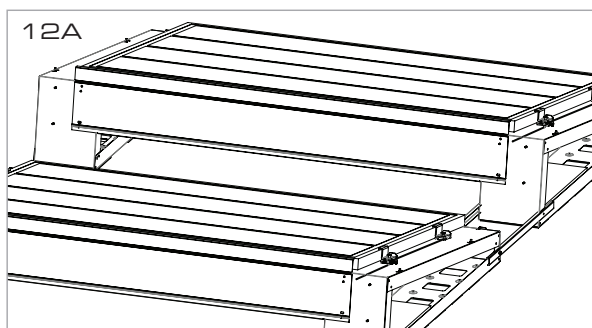
11

After installing the *End Clamps*, place (2) of the *Mid Clamps* on the 5/16-18 studs located on the *Mid Row Supports*. Add the *5/16-18 Stainless Steel KEPS Nut* and tighten to 13 ft•lbs. Repeat step 10 at end of row.



12

Add the *Deflector* and (4) *10-32 Stainless Steel KEPS Nuts* to all modules. Torque nuts to 28 in•lbs.



SAFETY INFORMATION

NOTICE

- Solar Mounting Solutions ballasted flat roof PV racking system is designed to be used with PV modules that have been certified and listed to UL 1703.
- A minimum of one ballast block per support is required, unless instructed otherwise by engineering layout.
- Stainless steel can seize. Apply anti-seize compound, avoid spinning on at a high rate of speed, and keep hardware out of the sun before installation.
- NOTE: The End Grounding Clips and Mid Grounding Clips are sharp, handle with care to avoid injury.

FIRE SAFETY

- This assembly is to be mounted over a fire resistant roof covering rated for the application.
- Consult your local authority for guidelines and requirements for building or structural fire safety.
- Roof constructions and installations may affect fire safety of a building: improper installation may create hazards in the event of a fire.

GROUNDING

- For grounding and bonding requirements of completed system please refer to regional and national safety and electricity standards.