

AERORACK 2.0

by **KB RACKING®**



INSTALLATION MANUAL AERORACK 2.0

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BEFORE YOU BEGIN

Read all instructions carefully and completely.

IMPORTANT

Always observe all governing codes and ordinances.

For Reference Only – Images and diagrams used in this manual are for reference only. Your project will have specific documents and dimensions (provided separately).

Secure & Dry Storage – Store parts in a secure, dry location during installation. Wet storage stains are prevented by sufficient ventilation and protection from moisture.

Roof Flooding – Ensure proper rooftop drainage. Constant submersion of PV supports in water may damage parts. Consult with a KB Racking® Project Manager if this is the case.

Check Parts – Ensure the correct type and quantities of parts have been delivered.

Damaged Parts – If you have received damaged parts, immediately notify your KB Racking® Project Manager.

Modules – Racking system to be used with modules where compatibility from manufacturer has been approved.

Fire Rating - Racking system is to be mounted over a fire-resistant roof covering rated for the application.

Grounding – Racking system may be used to ground and/or mount a PV module complying with UL1703 or UL61730 only when the specific module has been evaluated for grounding and/or mounting in compliance with the included instructions. Refer to page 4.

FOR YOUR SAFETY

While installing the PV system, proper safety equipment should be worn.



CAUTION/ATTENTION

KB Racking® components may have shifted during shipping. Take extra care when moving and unpacking components.

Les composants de KB Racking® peuvent ont déplacé au cours du transport. Prendre des précautions supplémentaires lorsque vous déplacez et déballage les composants.



DANGER

Only qualified professionals should install solar panels, DC cabling, and any anti-lightning safety devices.

Seulment les professionnels qualifié devrait installer les panneaux solaires, les fils CC, et les dispositifs de sécurité contre la foudre.

KB RACKING® IS NOT RESPONSIBLE FOR ANY DAMAGES INCURRED ONCE SHIPMENT HAS BEEN SIGNED FOR AND RECEIVED.

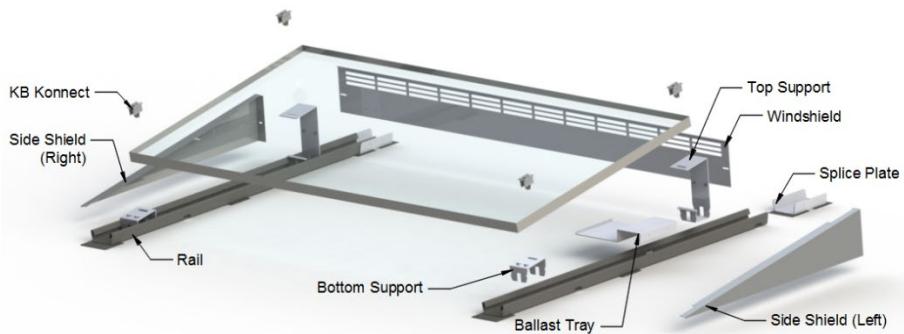
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UL2703 List of Approved Modules

Module Manufacturer	Module Type
Boviet	Boviet 35mm Module Frames: BVMYYYYM-xxx-H-HC-BF-ZZ Where "YYYY" can be 6610 / 6612 / 7610 / 7612 & "ZZ" can be DG or Blank.
Canadian Solar	Canadian Solar 35mm Module Frames: CS7N-xxxMB-AG
JA Solar	JA Solar 30mm, 35mm & 40 mm Module Frames: JAMYYZZZ-xxx/AA Where "YY" can be 54 / 72 / 78; "ZZZ" can be D10 / D30 / S10 / S30 / S31 & "AA" can be MB / MR
Jinko	Jinko 40mm Module Frames: JKMxxxM-72HL4-Y Where "Y" can be v / tv
Longi	Longi 35mm Module Frames: LRY-72ZZZ: Where "Y" can be 4 / 5 & "ZZZ" can be HBD / HPH
Qcells	Qcells 35 mm Module Frames: Q.YYY ZZZ Where "YYY" can be PEAK DUO / TRON & "ZZZ" can be XL-G10.2 / XL-G10.3 / XL-G10.c / XL-G10.d / XL-G10.3 BFG / XL-G10.d BFG / XL-G11.3 / XL-G11.3 BFG / XL-G11S.3 BFG* / XL-G2.3 BFG
Silfab	Silfab 35 mm Module Frames: SIL-xxx-YY Where "YY" can be HC+ / HM / BG / HC / HN
Talesun	Talesun 30 mm Module Frames: TD6IYYM Where "YY" can be 60 / 72
Trina	Trina 35 mm Module Frames: TSM-YYY Where "YYY" can be DEG18MC.20(II) / DEG21C.20
VSUN	VSUN 35 mm Module Frames: VSUNxxx-144YYY Where "YYY" can be BMH-DG / BMH(BB) / M(BB/BW) / MH(BW)
ZnShine	ZnShine 30 & 35 mm Module Frames: ZXMY-AAA-xxx/M Where "Y" can be 6 / 7 & "AAA" can be SH144 / NHLDD144 / SHLDD144 / NH120 / NH144 / SH108

System Overview



Standard Components

<input type="checkbox"/> Axx-04B	AeroRack 2.0 – xx Deg. Module Top Support
<input type="checkbox"/> Axx-03B	AeroRack 2.0 – xx Deg. Module Bottom Support
<input type="checkbox"/> A00-01B-xx	AeroRack 2.0 Rail – xx mm
<input type="checkbox"/> A00-02B-TEK	AeroRack 2.0 – Rail Splice with TEK Screw
<input type="checkbox"/> A00-13B-TEK	AeroRack 2.0 – Double Ballast Tray
<input type="checkbox"/> Axx-0xB	AeroRack 2.0 – xx Deg. Windshield
<input type="checkbox"/> Axx-0xB-TEK	AeroRack 2.0 – xx Deg. Side Shield (<i>Left or Right, optional</i>)
<input type="checkbox"/> C02-35E	KB Konnect Clamp
<input type="checkbox"/> KB00-AL-01-xx	KB Konnect End Clamp, xx mm (30, 35, 40)
<input type="checkbox"/> C01-xxE	End Block, xx mm (Used for Alternative End Clamp Thickness)
<input type="checkbox"/> RPM3-45	3mm Roof Protection Mat 4 x5" (<i>un-attached</i>) *
<input type="checkbox"/> 9410-53258-SSTEK	Hex Washer TEK Screw, #8x5/8"
<input type="checkbox"/> 9111-M616-SS0	Hex Bolt, M6x16, Serrated Flange

**Pre-attached Roof Protection Mats are included on the following components: Rail, Rail Splice, and Ballast Tray.
Unattached mats are placed under exposed Rail edges, per "Installing the Rails" section of this manual.*

Tools and Equipment Required for Installation

<input type="checkbox"/> 5mm Allen Bit	<input type="checkbox"/> Spacer Sticks* (Pre-cut wooden spacers to consistently space supports – not supplied)
<input type="checkbox"/> 10mm Hex Socket / Wrench	<input type="checkbox"/> Torque Wrench
<input type="checkbox"/> 1/4" Hex Socket / Wrench	<input type="checkbox"/> Safety Glasses
<input type="checkbox"/> Power Drill	<input type="checkbox"/> Safety Gloves

Add-on Components

Ballast Tray Kit

<input type="checkbox"/> A00-13B-TEK	AeroRack 2.0 – Double Ballast Tray
--------------------------------------	------------------------------------

High Capacity Mounts (HCM) Kit

<input type="checkbox"/> HCMxx-01B	High Capacity Mount, xx Deg. Bottom Support
<input type="checkbox"/> HCMxx-02B	High Capacity Mount, xx Deg. Top Support

High Uplift Solution Support (HUS) Kit

<input type="checkbox"/> HUSxx-01B	High Uplift Solution, xx Deg. Support
<input type="checkbox"/> HUSxx-01B-INN	High Uplift Solution, xx Deg. Inverted Support

***Anchor Kits** – Refer to Anchored Solutions Installation Manual Provided Separately

Preparing for Installation

- 1 Clean roof surface and remove all dirt and debris.

IMPORTANT

Inspect roof for damage prior to installation and record any existing damage with a digital camera.

- 2 Ensure proper drainage on the roof. Water accumulations may lower the load reserve of the rooftop and decrease lifespan.

- 3 Ensure the correct type and quantities of parts have been delivered.

If you have received damaged or missing parts, immediately notify your KB Racking® Project Manager.



CAUTION

Wear safety gloves when handling parts. Newly fabricated parts may have sharp edges.



PLEASE READ THE FOLLOWING



If roof/building edge has a fall distance of 10ft (3m) or greater,

Appropriate safety measures must be taken (i.e. harnesses) for installation of panels closer than 6.5ft (2m) to roof edges or skylights.

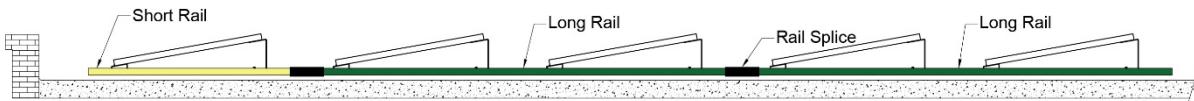
NOTE: Please note that KB Racking® Inc. requires all arrays to be no closer than 3ft (0.9m), unless otherwise stated, from a building's roof edge to validate wind load calculations and ensure the system is safely ballasted.

Installing the Rails

1

Before you begin, ensure you have the following documents **provided separately**: *Layout Diagram*, *Rail Table*, and *Spacing Diagram*.

Example of ODD NUMBER of PANELS



Example of EVEN NUMBER of PANELS

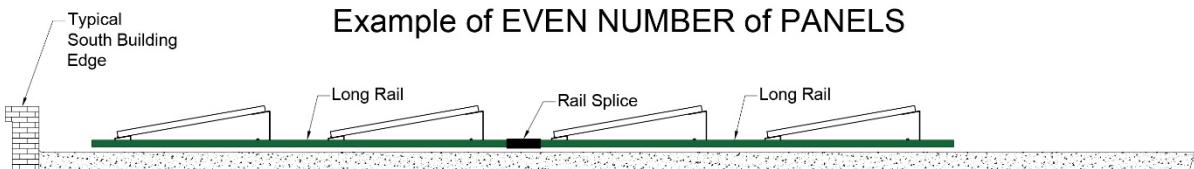


Fig. 1 – Use your *Rail Table* to determine which size of Rail to use.

2

Place your first Rail for an array. Refer to your *Rail Table* and *Layout Diagram* (Figure 8). The *Rail Table* provides the Rail size (short or long). The *Layout Diagram* provides the system location relative to the roof edge.

Tip: Your first Rail for a column of panels may be SHORT or LONG, depending on the number of panels in a column. Use your *Rail Table* to determine which combination of Rails to use, per Figure 1.

SHORT Rails are only used:

1. At the end of a N/S column, AND
2. Where there are an odd number of panels in a N/S column.

3

Use your *Spacing Diagram* to obtain the E/W Rail Spacing (see example, Figure 9).

4

Complete the first row of rails of the array. Lay Rails adjacent to each other. Use chalk lines or spacer sticks to consistently align Rails and ensure Rails remain parallel to each other (Figure 2-3).

- 5 Continue installing rows of Rails as required. Use your *Rail Table* and *Layout Diagram* to determine specific quantities and combinations of Rails.
- 6 Install Rail Splices to connect Rails. Equally space two Rails within a splice. Use the pre-punched holes on the splice to align and install 4x TEK Screws (Figure 4-5). **Torque to 7.5 Nm (5.5 ft-lbs)**
- 7 Complete the Rail installation by placing Roof Protection Mats at the ends of Rails as needed. Peel the mask off the double-sided tape and adhere the mat to the underside of a Rail to cover the Rail edge (Figure 6-7).



Fig. 2 – Use spacer sticks to aid placement



Fig. 3 – Align Rails



Fig. 4 – Assemble Rail and Splice Plate



Fig. 5 – Connect two (2) Rails with Splice Plate

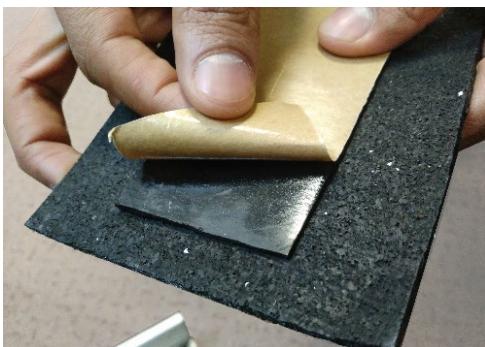


Fig. 6 – Peel mask off tape



Fig. 7 – Mat covers exposed Rail edge

How to Use Your Layout Diagram

1 From the layout, use the N/S and E/W dimensions at a corner of your roof as the ORIGIN (i.e. the beginning) of your installation.

2 Note the following items on your project specific *Layout Diagram*:

NORTH ARROW	DIMENSIONS	LEGEND
ARRAY NUMBERS	ROOF STRUCTURES	

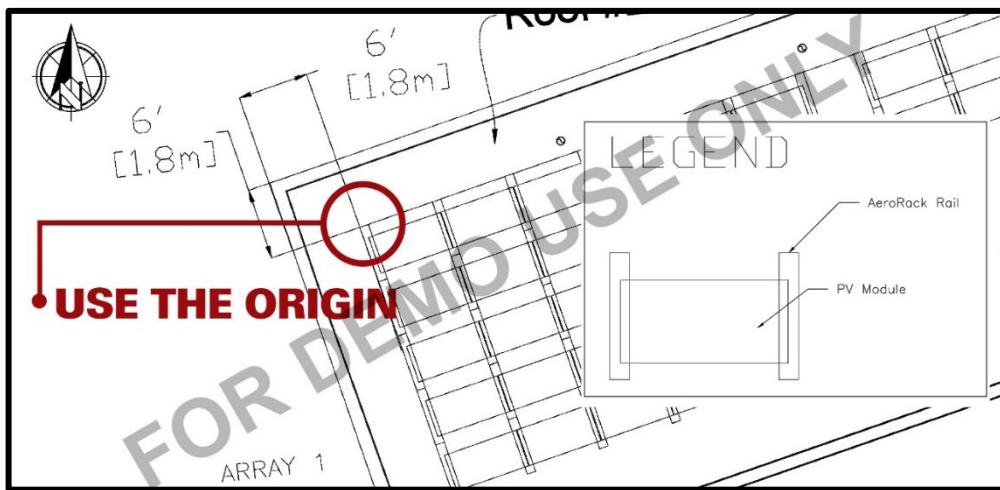


Fig. 8 – Sample Layout Diagram

How to Use Your Spacing Diagram

- 1 Your *Spacing Diagram* will indicate the following important dimensions:
 - N/S SUPPORT SPACING** (N/S distance between Supports)
 - INTER-SUPPORT SPACING** (inter-row distance between Supports)
 - E/W RAIL SPACING** (E/W distance between Rails)
 - ROW SPACING** (N/S distance between similar points)Record these numbers and do not confuse them.
- 2 *Recommended:* Create spacer sticks for the first three dimensions above.

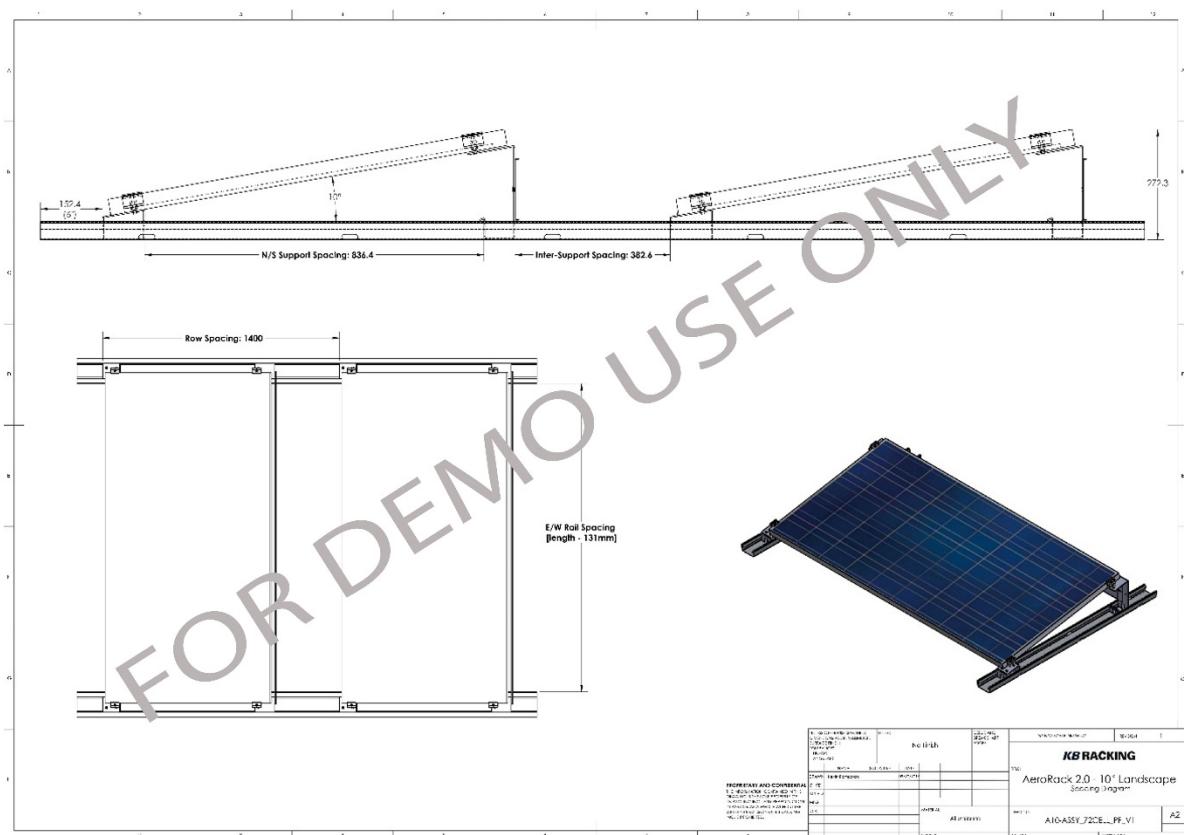


Fig. 9 - Sample Spacing Diagram

Installing Module Supports

- 1 Mark 15cm (6") from the South edge of a Rail (Figure 10).
- 2 Click-in the first Bottom Support by aligning the front of the support at the 6" mark. Apply downward pressure by stepping on the support (Figure 11). All four (4) click-in features of the support must be engaged with the rail.
- 3 Use the *Spacing Diagram* to obtain the N/S Support Spacing.
- 4 Click-in the Module Top Support at the distance obtained in Step 3, with your spacing stick (see example, Figure 12-13).

Tip: Hold the support at the top flange with both hands. Centre the support within the Rail channel and apply pressure by stepping on the bottom flange of the support. Applying pressure at the bottom flange first will click-in this flange alone. To completely click-in the Top Support, apply pressure with hands on the top flange.

IMPORTANT

Complete the first row before installing additional rows to fix the distances between the module supports.

- 5 Click-in all supports using the methods outlined above.



Fig.10 – Measure the first Bottom Support of the row



Fig. 11 – Click in the Module Bottom Support



Fig. 12 – Use pre-cut wood spacers to evenly space supports



Fig. 13 – Click-in the Module Top Support



PLEASE READ THE FOLLOWING



Following the installation of the module supports, ensure that the surface of the roof is well protected at the N/S ends of each column of rails. Any rail excess that may pose a threat of damage to the roof structure should have some roof protections pads placed underneath. Alternatively, these excess sections could be cut off with a Circular Saw.

NOTE

The system requires at least 15cm (6in) of rail extending beyond supports at each end of a column of rails.

Installing Double Ballast Trays

- 1 Double ballast trays are only required wherever they are shown on the *Ballast Layout* (see example, Figures 18).
- 2 Install Ballast Trays under PV panels, top-down, onto rails (see example illustration, Figure 14). Refer to the *Shading Diagram*, provided separately, for configuration requirements. Install 4 TEK screws through tray and rail.

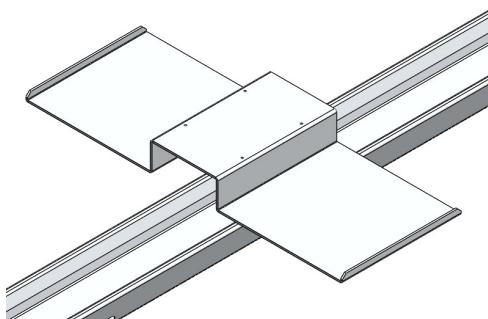


Fig. 14 – Install Tray 'top-down' on Rail

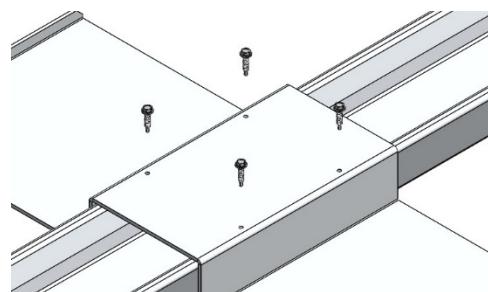


Fig. 15 – Install TEK Screws

- 3 Place Ballast under panels according to your project specific *Ballast Layout* and *Shading Diagram* (see example, Figure 16-17).

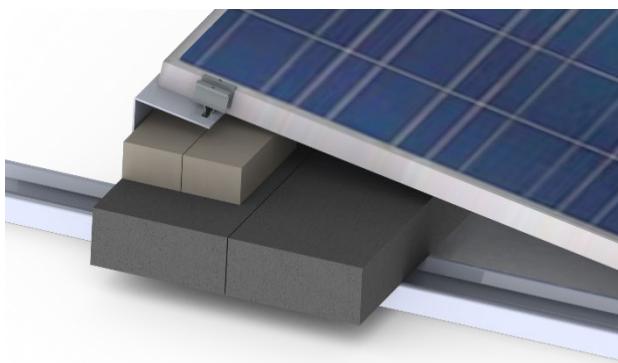


Fig. 16 – Example of ballast on rail



Fig. 17 – Example of ballast on tray

How to Use Your Ballast Layout

- 1 Ensure you have the *Ballast Layout* and *Shading Diagram* documents, both provided separately.

The *Ballast Layout* shows the combinations of stones required at each rail, to ballast the adjacent panels.

The *Shading Diagram* shows sample arrangements of stones (Figure 17).

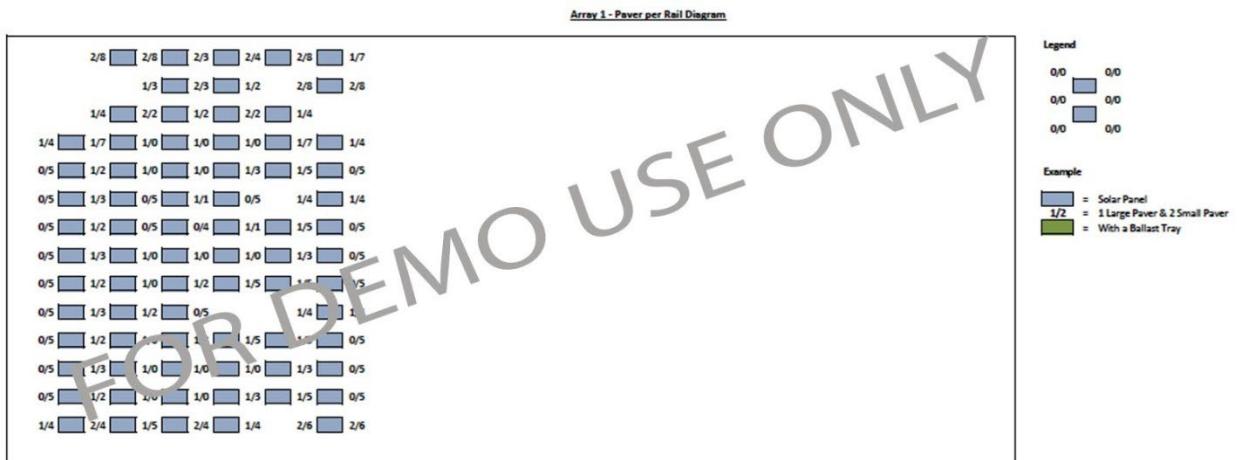


Fig. 18 – Sample Ballast/Paver Layout

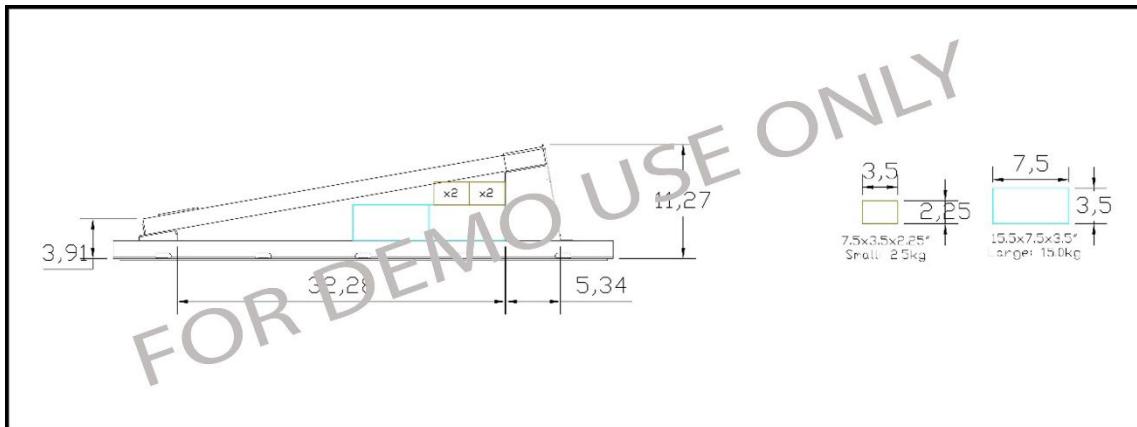


Fig. 19 – Sample Ballast/Paver Shading Diagram

Installing PV Modules

- 1 Begin at an array edge. Place a PV module across two Bottom Supports.
- 2 Lay down the PV module onto the Top Supports.
- 3 Align the module. Each support features an etching. The edge of a PV module must be on this etching to ensure the panel is centered across all four supports (E/W).

IMPORTANT

Strong winds can lift panels. Once installed, PV Modules should not be left unsupervised without windshields installed.

- 4 Continue placing PV modules for an entire row.
- 5 Secure PV modules beginning at the start of a row. Clamps at module edges require end blocks, OR KB konnect end clamps. Click clamps into slots on the support and use a 5mm allen-key to secure the clamp (Figures 20-24).

IMPORTANT

End blocks provided by KB Racking are designed to match your PV Module thickness when the module is not 30, 35 or 40mm which use KB konnect end clamps. If end clamps do not match the module thickness, notify your builder immediately.

IMPORTANT

Each solar panel requires FOUR (4) clamps.

IMPORTANT

To prevent damage to solar panel and clamp, do not exceed recommended torque setting below.

Do not use hammer drills, impact drivers, or long allen keys.

- 6 Continue installing adjacent PV modules. To ensure proper clamping, pull panels firmly together while installing (see example, Figure 23-24).
- 7 **Torque KB Konnect to 8.3Nm (6.1 ft-lb).** Clamps must sit flush to each panel being clamped. This ensures the panel frames are pierced.
- 8 Begin the next row. Repeat steps 1-7 until all panels are installed.

IMPORTANT

KB Konnect clips are designed for single use only.

If clips are removed for maintenance purposes, new KB Konnect clips must be re-installed. Clamp body and bolt are multi-use.

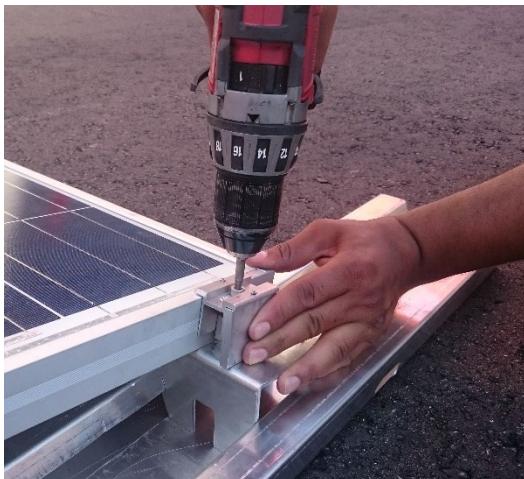


Fig. 20 – Fasten KB Konnect End Clamp, with End Block

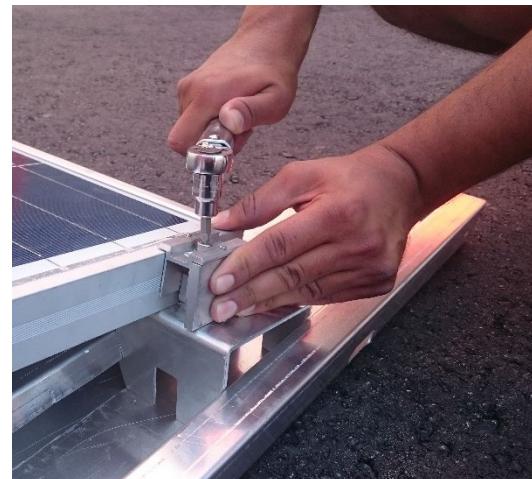


Fig. 21 – Torque KB Konnect End Clamp, with End Block

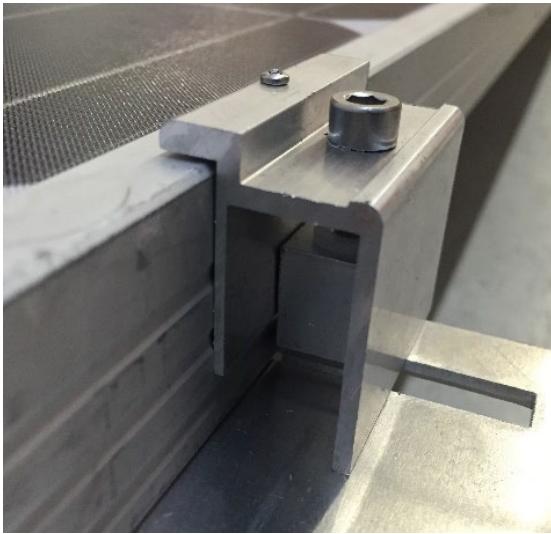


Fig. 22 – KB Konnect End Clamp



Fig. 23 – Two adjacent modules pulled together prior to securing clamp.



Fig. 24 – Two adjacent modules pulled together while securing clamp.

Installing Cable Systems

- 1 After all modules are in place, string cables can be put into the middle notch of the Module Top Supports and Bottom Supports

Tip: Rails can be used as cabling channels either under or to the side of the supports, within the rail channel.



Fig. 25 – Rail cabling through supports

IMPORTANT

In case there are any anti-lightning safety devices on the roof, a qualified professional should integrate them into the solar installation.

Installing Windshields

LANDSCAPE

- 1 Start at the end of a row. Place the windshield flat against the Top Support.
Flanges face away from supports.
- 2 Align slots on the shield to the press-fit nuts on the Top Supports.
Slide the shield as far to the outside edge of the array as permitted by the slots.
- 3 Use two M6 bolts to secure the shield to two supports.
Torque to: 11.8 Nm (8.7 ft-lbs)
- 4 Install remaining shields. Continue sliding shields to fit.



Fig. 26 – Align shield with inner press-fit nut

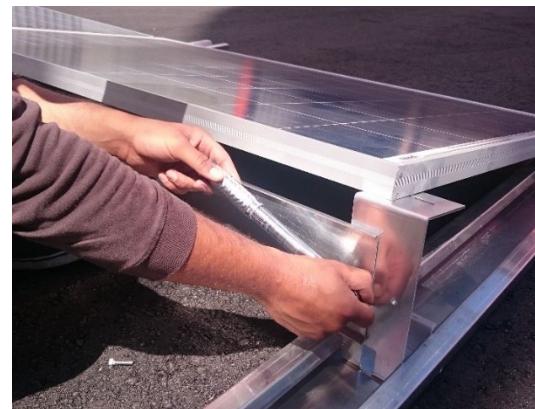


Fig. 27 – Torque shield to the Module Top Support

IMPORTANT

Windshields are designed to accommodate various lengths of panels. For smaller 60 Cell panels, it may be necessary to overlap and/or flip windshields.

Windshields must be mounted through the provided slot, and may slide along this slot to fit the system.



60 CELL WINDSHIELDS CAN OVERLAP/FLIP

PORTRAIT

- 1 Place the Portrait Windshield flange across two rails, aligning the shield with the back edge of a PV module (Figure 26).
- 2 Hold the shield in place, parallel to the back edge of the PV module. Drill through both the shield and rail with a #11 drill.
- 3 Insert a 3/16" Rivet in each hole. Rivet the shield to the rail.

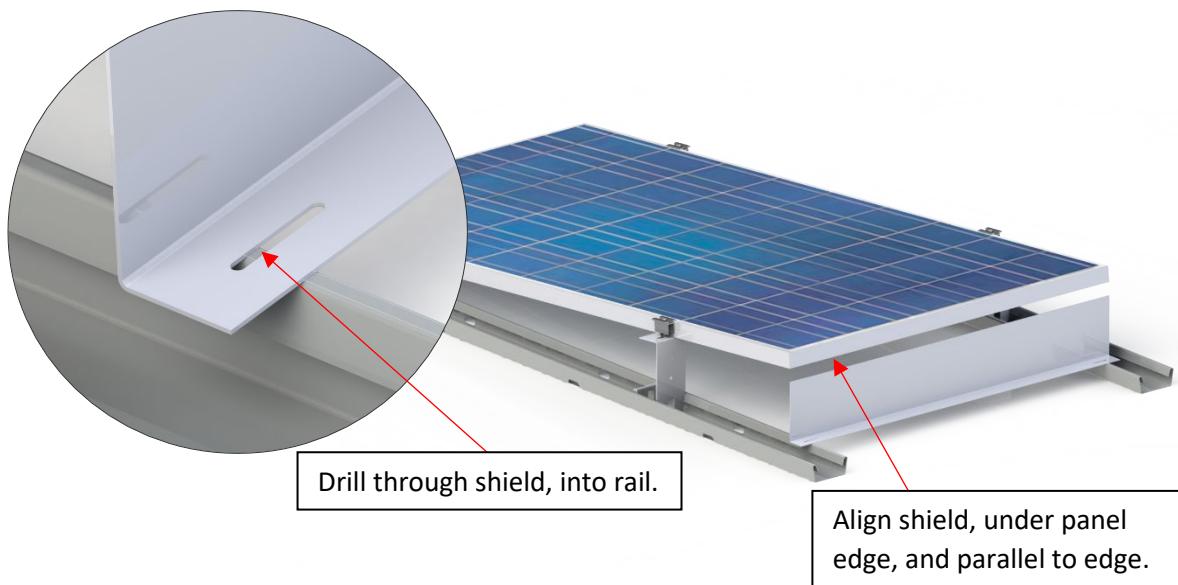


Fig. 28 – Installation of Portrait Shield

Installing Side Shields (optional)

- 1 Install Side Shields at the end of rows (Figure 27). Left and/or Right-hand shields can be installed depending on your project requirements.
- 2 Place Side Shield by aligning the rear slot with the outer press-fit nut on a Top Support. Use an M6 bolt to hand-tighten the rear of the shield.

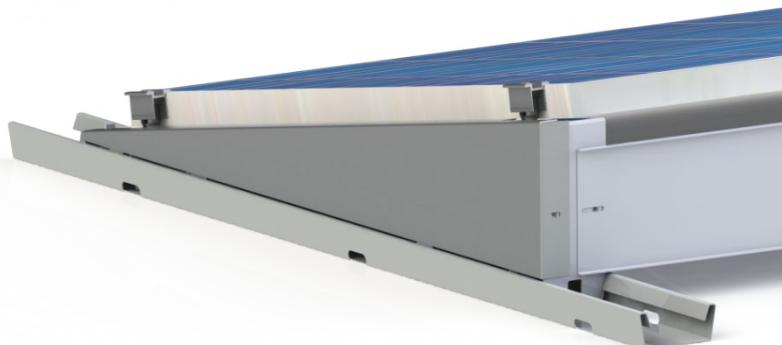


Fig. 29 – Side Shield aligned with outer press-fit nut

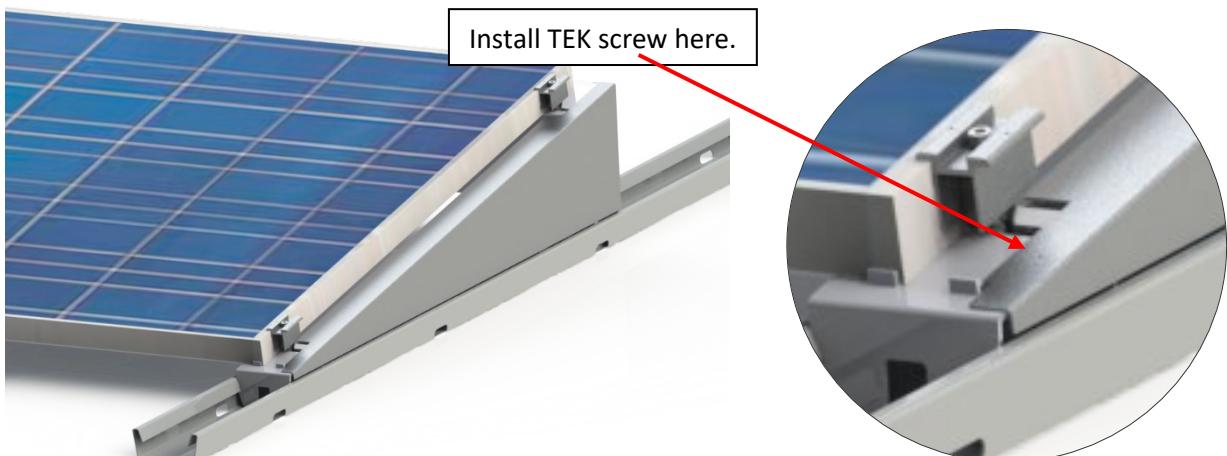


Fig. 30 – Side Shield alignment and securement

- 3 Using the pre-punched hole at the front of the side shield to locate and install a TEK Screw (Figure 28).
Torque to 7.5 Nm (5.5 ft-lb).
- 4 Torque the M6 bolt at the rear of the shield to **11.8 Nm (8.7 ft-lb)**.

Installing ETL Certified Grounding Lugs

IlSCO Grounding Lug

- 1 Fasten grounding lugs (not provided) onto any one Rail per Array.
Tighten bolt.
Torque to: 5Nm (3.69ft-lb).
- 2 Insert #6 AWG – RW75 uninsulated copper ground wire into wire slot.
Tighten bolt.
Torque to: 5.08Nm (3.75ft-lb).



Fig. 31 - Grounding Lug Schematic (Tyco model, 2058729-1 shown as an example)

IMPORTANT

For the purpose of electrical bonding, only one grounding lug is required per array per 20x25 panels in the E/WxN/S directions, respectively. Panels may be installed in landscape or portrait orientation. If array area exceeds 20x25 panels, then additional grounding lugs are required, per each additional area.

Maximum Series Fuse Rating: 30 Amps



PLEASE READ THE FOLLOWING



The module clamps contain protruding screws that pierce the panel frame to provide an electrical bonding connection between the panel and racking. The grounding continues through the racking to the base Rail where the system is connected to a grounding wire through grounding lugs.

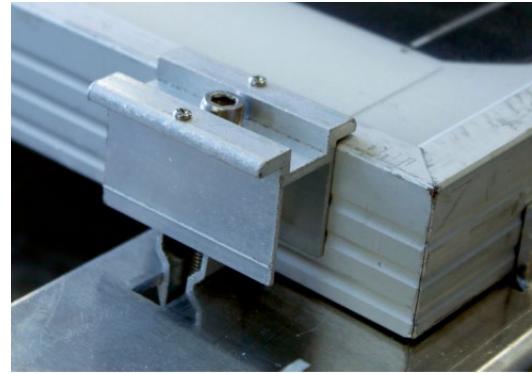
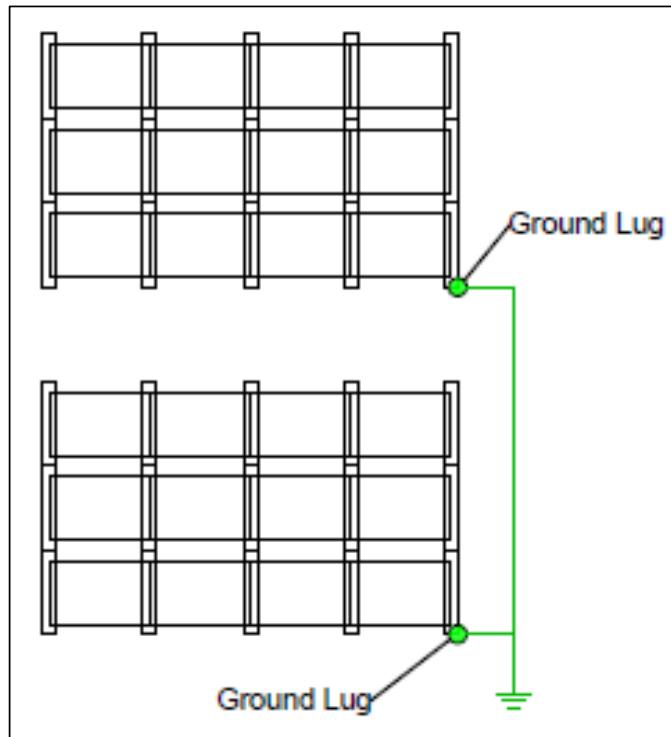


Figure 32 – Module Clamp with pierce screws

For the purpose of electrical bonding, only one grounding lug is required per array per 20x25 panels in the E/WxN/S directions, respectively. Panels may be installed in landscape or portrait orientation. If array area exceeds 20x25 panels, then additional grounding lugs are required, per each additional area.



Basic Wiring Diagram, Use as Example Only

Grounding and Bonding Diagram

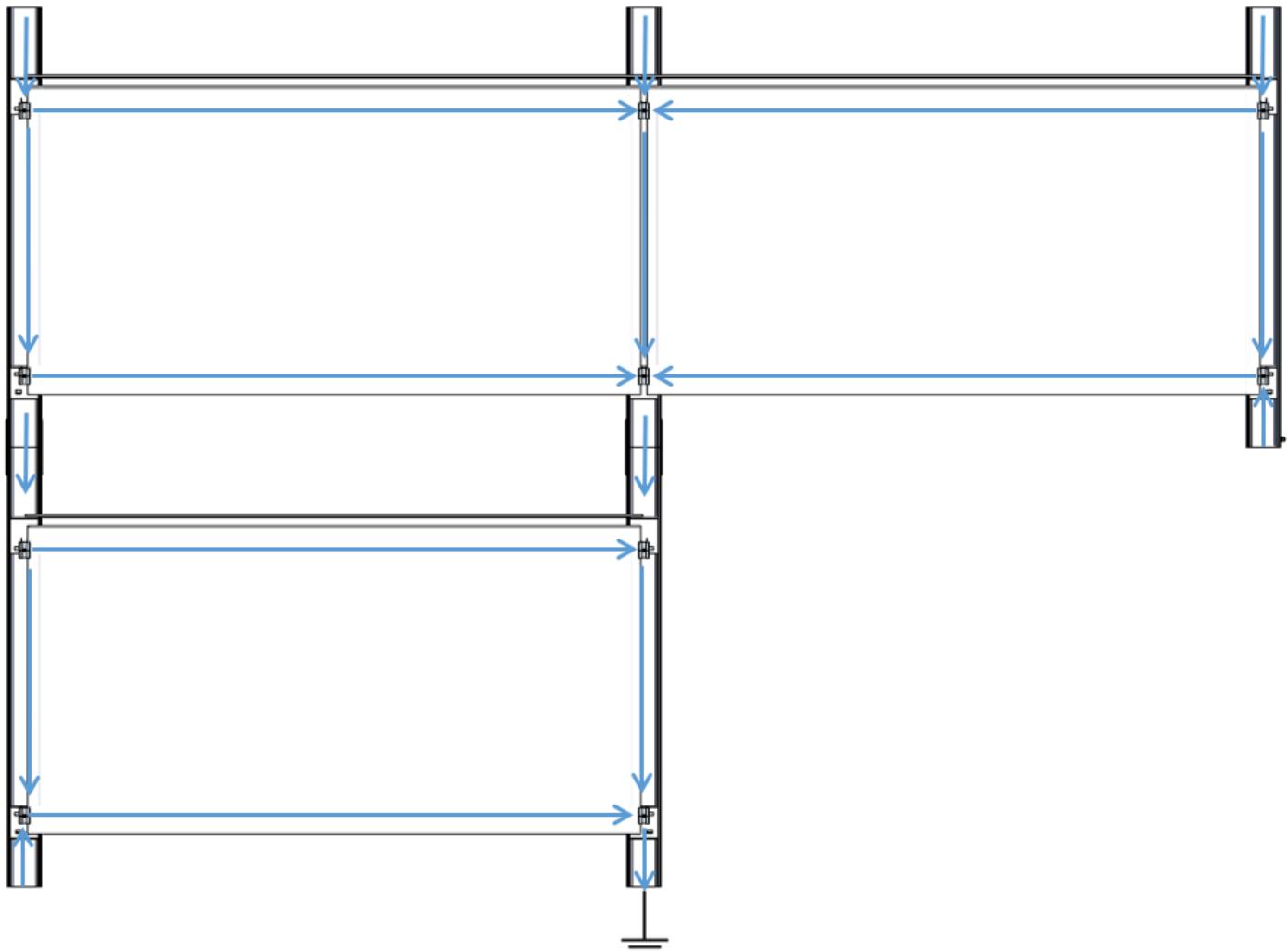


Figure 33 – Minimum Grounding and Bonding Path

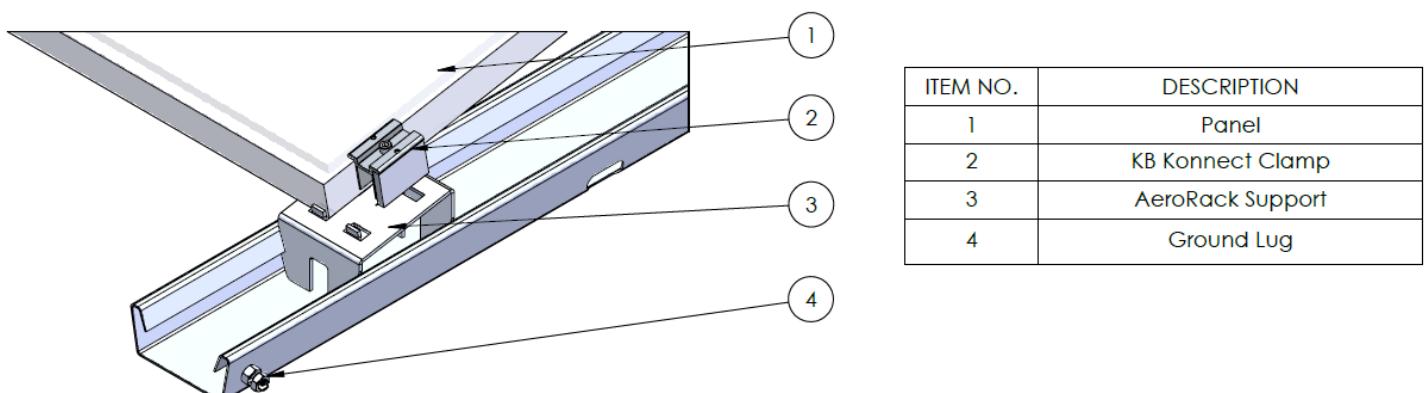


Figure 34 – Electrical Bonding Path



PLEASE READ THE FOLLOWING



Installer is responsible for and shall provide an appropriate method of direct-to-earth grounding in accordance with the latest edition of the Canadian Electrical Code Part 1, CSA 22.1 Safety Standard for Electrical Installations or the National Building Code, including NEC 250: Grounding and Bonding, and NEC 690: Solar Photovoltaic Systems.

Please refer to your local Building and Electrical Codes.



PLEASE READ THE FOLLOWING



Keep Copper away from Aluminum components in a fashion that maintains a minimum of $\frac{1}{4}$ " separation.



PLEASE READ THE FOLLOWING



The bonding path for grounding is a result of the interconnection of all components in the array;

During scheduled maintenance, the removal of modules, windshields or other components must be carefully and methodically considered. The bonding path will not be disrupted by module removal. The module with the support connected to the grounding lug must be removed last.

At all times, the array must be interconnected to the grounding lug (as well as during maintenance).

Completing the Installation

1

For each array, ensure the following items are correctly installed and torqued:

- i.* Module clamps
- ii.* Grounding lugs
- iii.* Windshields

Product Maintenance Information

To maximize life span and ensure peak performance, KB Racking® recommends routine maintenance checks. The following checks should be completed every 6 months to maintain the system's integrity.

- Remove debris from rooftop that can damage panels or stop solar absorption.
- Clean solar panels and remove bird waste.
- Check clamps and hardware to ensure intended connections are secured.
- Check that windshields are in place and secured.
- Check for damaged components. Damaged components shall be replaced immediately in accordance with these instructions.

A P P E N D I X A

APPENDIX A | Installing High Capacity Mount Supports (HCM)

IMPORTANT

HCM Supports are installed after the four corner supports have been installed. The HCM Support is installed before the windshield.

For module locations that require HCM's and HUS's, remove the HCM Top Support where HUS Supports are installed.

- 1 Center the top support (HCMxx-02B) on the high side of the panel. Fit top support into place from high edge of panel until it is fully in contact with the module. This may require you to slightly push up on the panel.

NOTE: The Top Support should sit firmly on the roof surface.

- 2 Click the KB konnect end clamp (see Fig. A1) into the top support slot. Install with either KB konnect end clamp or KB konnect clamp and end block.

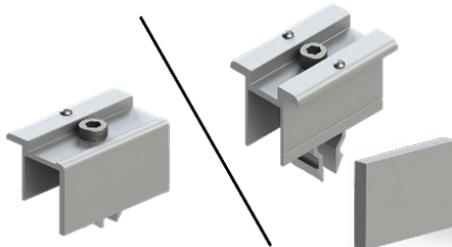


Fig. A1 – KB Konnect End Clamp, KB Konnect Clamp with End Block

- 3 Secure the support to the panel by tightening the clamp bolt. Torque to **8.3Nm (6.1ft-lb)**.

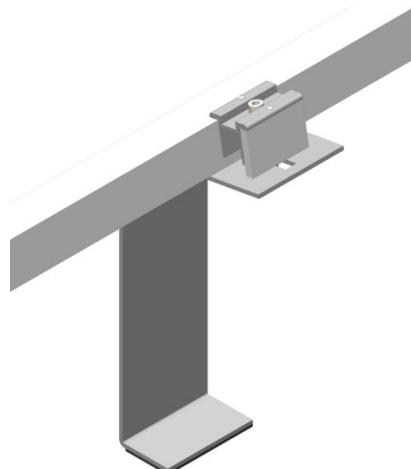


Fig. A2 – Assembled HCM Top Support

APPENDIX A | Installing High Capacity Mount Supports (HCM)

4

Center the bottom support (HCMxx-01B) on the low edge of the panel. Slide bottom support under the panel and secure to the panel flange by pulling the support towards you. Verify that center and outer flanges (see Fig. A3) of the support grip the panel flange tightly.

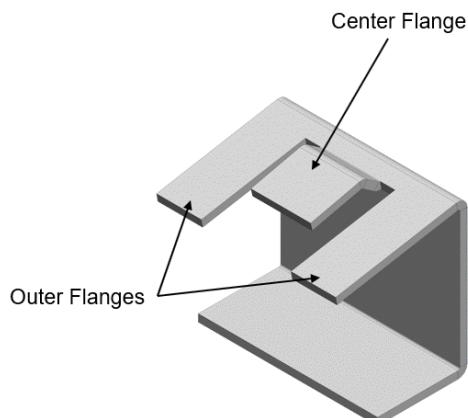


Fig. A3 – HCM Bottom Support

5

Verify that the HCM Bottom Support is in place:

Check to feel that the panel flange is in between the outer flanges of the bottom support. It will not be visible under the panel, but you will be able to feel that it is correctly in place, as seen in Fig. A4.

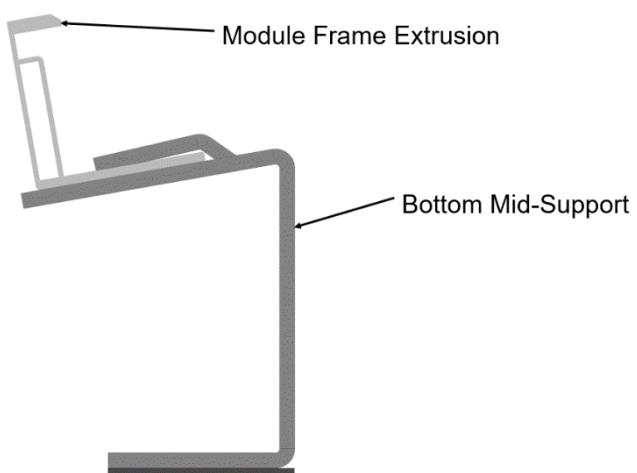


Fig. A4 – HCM Bottom Support Secured to Panel Flange

A P P E N D I X B

APPENDIX B | Installing High Uplift Solution Supports (HUS)

IMPORTANT

HUS supports are only to be installed on the northside of panels.

For module locations that require HCM's and HUS's, remove the HCM top support where HUS supports are installed.

- 1 Center the HUS support (HUSxx-01B) on the northside of the panel between two supports (Exx-01B). Move the support into place until it is in contact with the module (see Fig. B1). There may be a small gap between the support and panel—this is not a cause for concern. If using Inverted supports (HUSxx-01B-INN) repeat the same process.

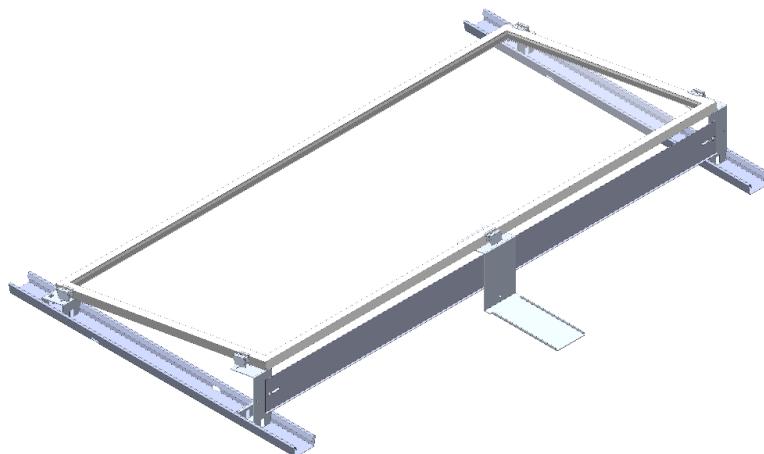


Fig. B1 – AeroRack with High Uplift Solution Support

- 2 Click the KB konnect end clamp (see Fig. B2) into the top support slot. Install with either KB konnect end clamp or KB konnect clamp and end block.

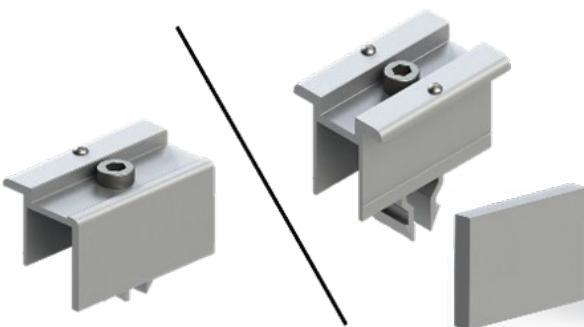


Fig. B2 – KB Konnect End Clamp, KB Konnect Clamp with End Block

APPENDIX B | Installing High Uplift Solution Support (HUS)

- 3 Secure the KB Konnect end clamp to the module (see Fig. B3). The clamp may be tightened with either a standard drill or a torque wrench to the recommended torque setting - **8.3 Nm/6.1 ft-lb**.

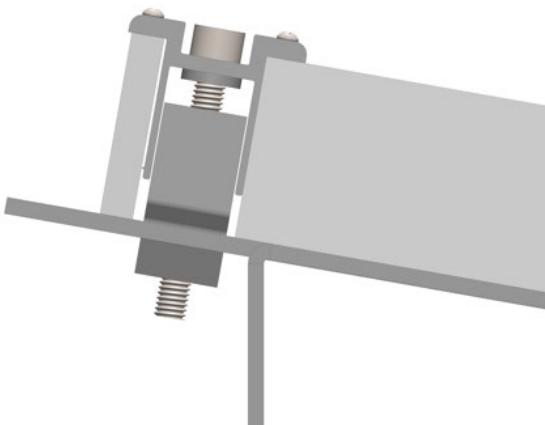


Fig. B3 – Module Fastened to HUS Support with KB konnect clamp and end block

- 4 Place the Ballast stones on the HUS support once the support is secured to the panel. Ballast stones are to be placed on the ballast tray in the same fashion as the AeroRack supports.