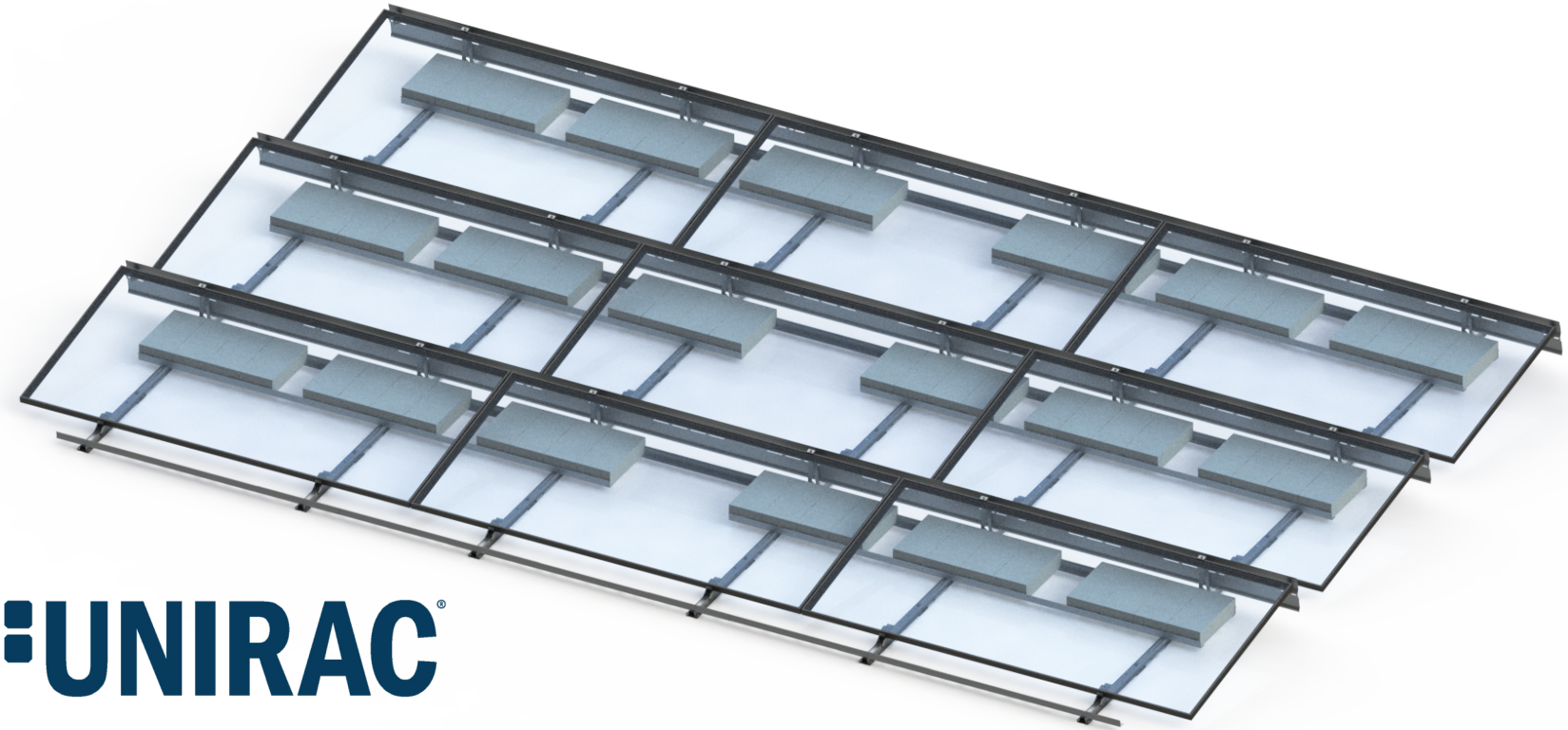
# GRIDFLEX 10D INSTALLATION GUIDE



UNIRAC

## UNIRAC Code-Compliant Installation Manual

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**PUB2026JUL10**

# GRIDFLEX 10D INSTALLATION GUIDE

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## TECHNICAL SPECIFICATIONS:

Maximum System Voltage: 1500V

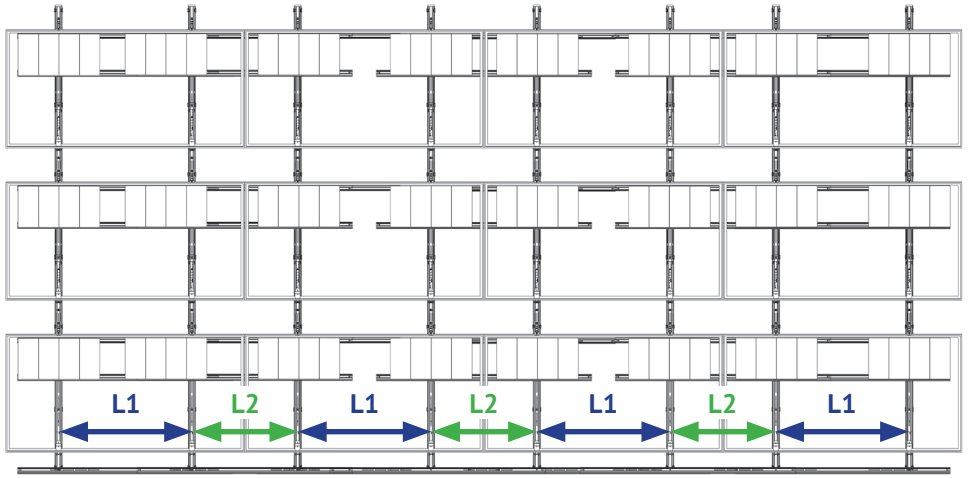
Allowable Module Length Dimensions: 65" to 100"

Allowable Module Width Dimensions: 39" to 52"

Hardware: Stainless steel

## TOOLS REQUIRED OR RECOMMEND FOR LAYOUT, ATTACHMENTS, AND INSTALLATION:

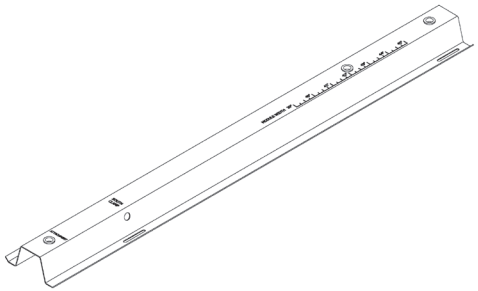
- Drill (Do Not Use an Impact Driver)
- 3/8" Socket
- Torque Wrench
- Tape Measure
- Chalk Reel
- Optional L1 and L2 Span Spacers



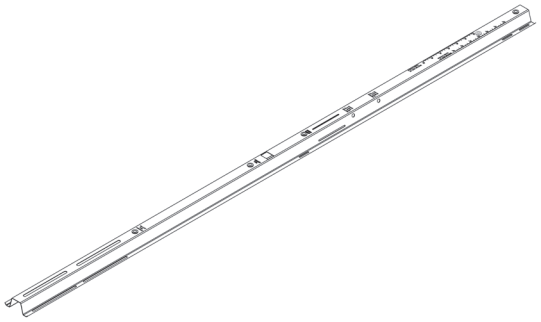

- ***Refer to construction drawing for L1 and L2 spans.***
- ***L1 and L2 spans are measured from rail center to rail center***

**IMPORTANT**

All applicable OSHA safety guidelines should be observed when working on a PV installation job site. The installation and handling of PV solar modules, electrical installation and PV racking systems involves handling components with potentially sharp metal edges. Rules regarding the use of gloves and other personal protective equipment should be observed.

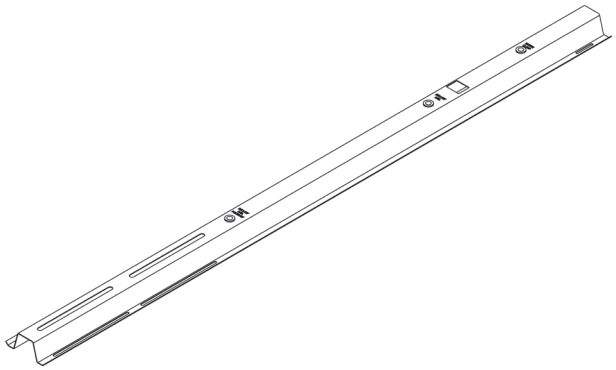


**SOUTH RAIL (P/N: 380012/380022)**
The rail is made of structural steel, pre-assembled with 1/4" SS Riv-Hex nuts. Module width scale is marked on rail, for overlap alignment.

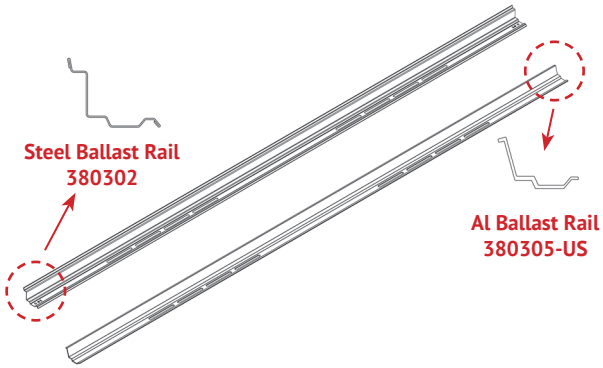


**MID RAIL (P/N: 380101/380111/380121/ 380131)**
The rail is made of structural steel, pre-assembled with 1/4" SS Riv-Hex nuts.

**NOTE:**
**Mid rails 380101 & 380111 have a provision to adjust the row to row spacing (10" or 13"). Two module-width scales, each corresponding 10" and 13" row spacing are printed on rail, so that rails are overlapped to achieve accurate module width connection.**

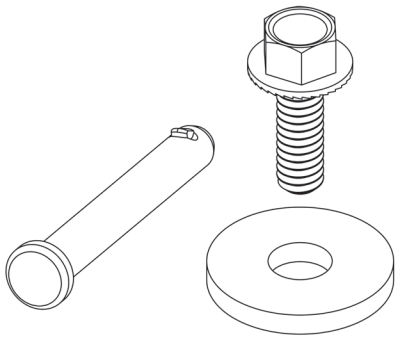


**NORTH RAIL (P/N: 380201)**
The rail is made of structural steel, pre-assembled with 1/4" SS Riv-Hex nut .



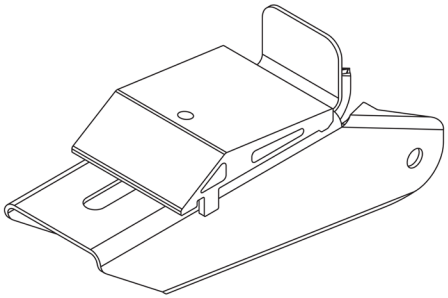

**BALLAST RAILS (P/N: 380302/ 380305-US)**
Ballast rails are made of structural steel or Aluminum and can hold up to 8 standard 4"x8"x16" solid concrete cap blocks

**P/N stands for Part Number**

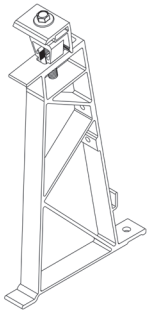


**HARDWARE KIT (P/N: 380930)**
This Kit is consists of

- Serrated Flange Hex Head Bolt, 0.25-20 x 0.75 *(Qty: 100)*
- Flat Washer 11-32 x 1 x 1.25 *(Qty: 40)*
- Self-Locking Clevis Pin, 0.25 x 1.925 *(Qty: 20)*

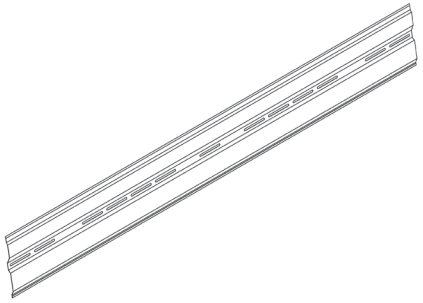


**SOUTH CLAMP (P/N: 380701)**
The south clamp assembly is made of a structural steel and engages the return flange underneath the module to secure the module.



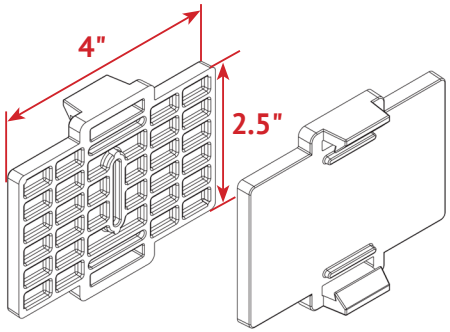
**NORTH STANCHION (P/N: 380601)**
The north stanchion assembly is made of a mill finish Aluminum and secures the module.

**Rated for Multi Use**

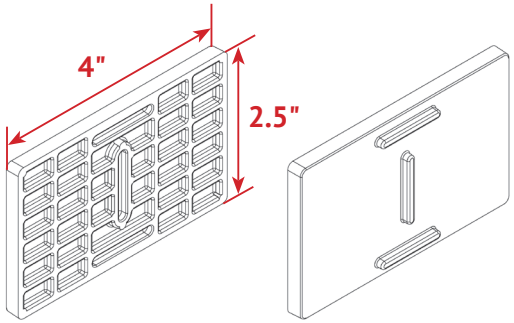


**WIND DEFLECTORS (P/N: 380400/ 380410/380420/ 380430/ 380440/ 380450/380401 380402)**
Wind deflectors are made of steel. Multiple lengths are available to accommodate different module lengths

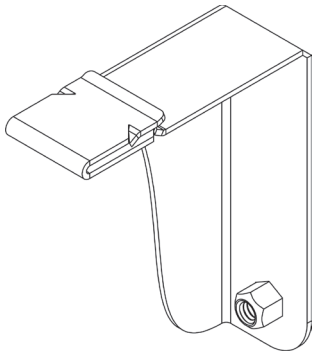
**IMPORTANT: WIND DEFLECTORS ARE REQUIRED ON ALL MODULES**



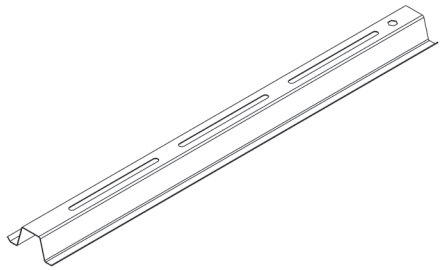

**CLIP-ON ROOF PAD (P/N: 380802)**
Roof Pad provides a protective interface between the rails and roofing material to protect the roof membrane.



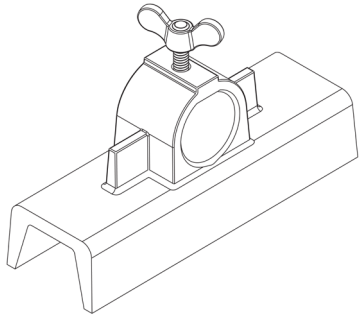

**ROOF PAD STACK (P/N: 380800)**
Roof Pad Stack is placed beneath the Clip-on-Roof Pad to level the array at uneven surfaces.



**WIND DEFLECTOR BRACKET (P/N: 380405)**
The wind deflector end bracket is made of steel and reinforces the cantilever of the wind deflector at the edges of array.

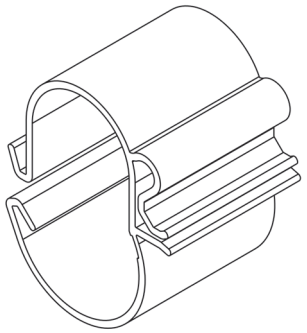


**SOUTH RAIL STIFFENER (P/N: 380050/380051)**
The south rail stiffener is made of steel and reinforces the mid rail to south rail connection.

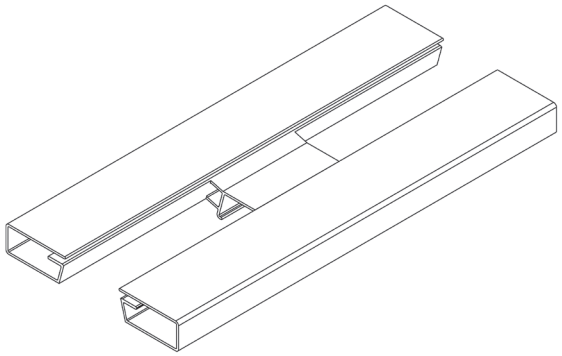


**GRIDFLEX SPACER ASSEMBLY (P/N: GFSPACE1)**
The GridFlex Spacer Assembly is a durable plastic component designed to attach securely to standard conduit. Serving as a guide jig, it ensures precise alignment and consistent spacing when laying base rails on the roof, making installation faster, easier, and more accurate.

## WIRE MANAGEMENT ACCESSORIES (OPTIONAL)



**WIRE MANAGEMENT CLIP, (P/N: 380902)**
The wire management clip is made of PVC, ***f1 rated for outdoor use per UL 746C***, and is used to route wires in the east-west direction along the ballast rail



**HOMERUN WIRE MANAGEMENT COVER (P/N: 380922/ 380942)**
The homerun wire management cover is made of PVC, ***f1 rated for outdoor use per UL 746C***, and is used to route and protect homerun bundles running north-south direction between modules rows.

**NOTE: Use the appropriate Homerun Wire Management Cover based on row spacing:**

- **380922 — For 13 in. row spacing**
- **380942 — For 17 in. row spacing**

**NOTE**
**The following ratings apply to the Wire Management Clip and Homerun Wire Management cover components:**

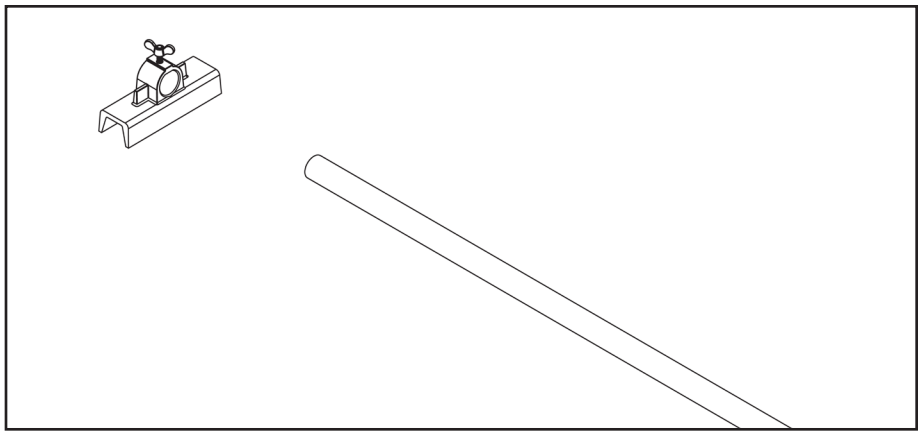
- **Maximum wire fill:**
  - **12 x #10AWG**
  - **8 x #8AWG**
  - **5 x #6AWG**
- **Maximum Operating Temperature: 80°C**
- **Not rated for mechanical strength.**

**Made in USA Components Part Number Data**

| PART NUMBER | DESCRIPTION |
|---|---|
| 380302-US | GF10 BALLAST RAIL |
| 380305-US | GF10 AL BALLAST RAIL |
| 380101-US | GF10 MR, MW 39-45", RS 10/13" |
| 380121-US | GF10 MR, MW 39-45", RS 17" |
| 380111-US | GF10 MR, MW 45-52", RS 10/13" |
| 380131-US | GF10 MR, MW 45-52", RS 17" |
| 380201-US | GF10 NR |
| 380012-US | GF10 SR, MW 39-45" |
| 380022-US | GF10 SR, MW 45-52" |
| 380400-US | GF10 WIND DEFLECTOR <69" |
| 380401-US | GF10 WIND DEFLECTOR 69-73" |
| 380402-US | GF10 WIND DEFLECTOR 73-77" |
| 380410-US | GF10 WIND DEFLECTOR 77-82" |
| 380420-US | GF10 WIND DEFLECTOR 82-87" |
| 380430-US | GF10 WIND DEFLECTOR 87-92" |
| 380440-US | GF10 WIND DEFLECTOR 92-97" |
| 380450-US | GF10 WIND DEFLECTOR 97-100" |
| 380802-US | CLIP-ON ROOF PAD |
| 380800-US | ROOF PAD STACK |
| 380050-US | GF10 RAIL STIFFENER, MW 39-45" |
| 380051-US | GF10 RAIL STIFFENER, MW 45-52" |
| GFSPACE1 | GRIDFLEX SPACER ASSEMBLY |
| 380930 | GFXD HARDWARE KIT |
| 380922/380942 | HOMERUN COVER ASSEMBLY |
| 380902 | BALLAST RAIL CLIP |

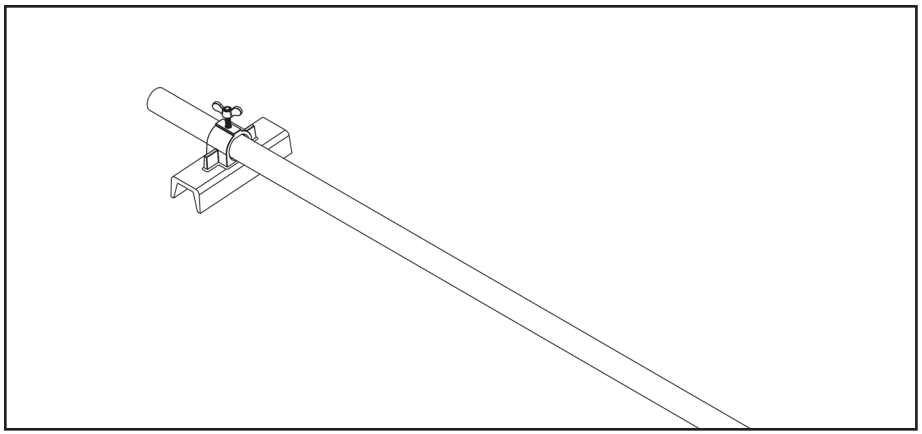
**AL -** Aluminum
**MR -** Mid Rail
**NR -** North Rail
**SR -** South Rail
**MW -** Module Width
**RS -** Row Spacing

## SETTING UP GRIDFLEX SPACER JIG



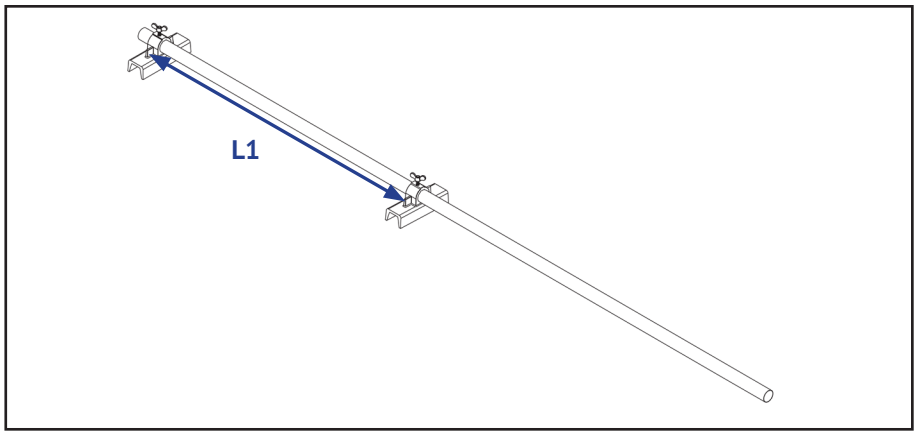
**STEP 1**

- Take a standard metallic conduit pipe with a length equal to a few inches longer than one module length.
- Place a GridFlex Spacer onto one end of the conduit pipe.



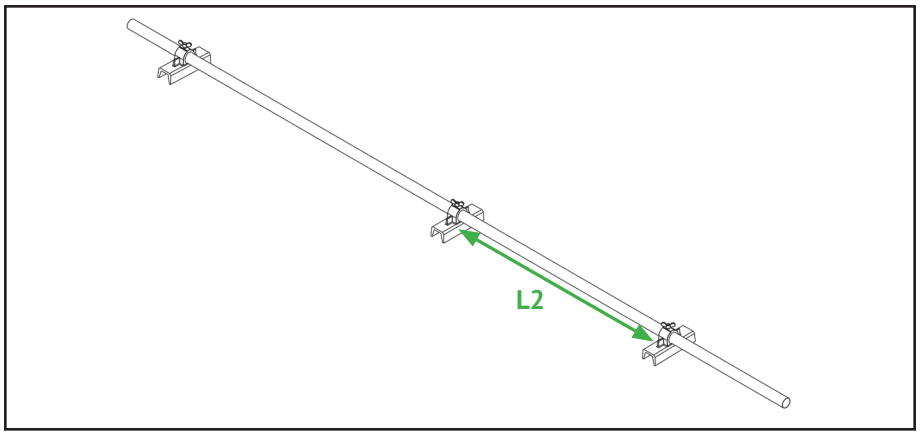
**STEP 2**

- Tighten the wing bolt to secure the GridFlex Spacer to the conduit pipe.




**STEP 3**

- Measure the L1 span distance from the first GridFlex Spacer and attach the second GridFlex Spacer.




**STEP 4**

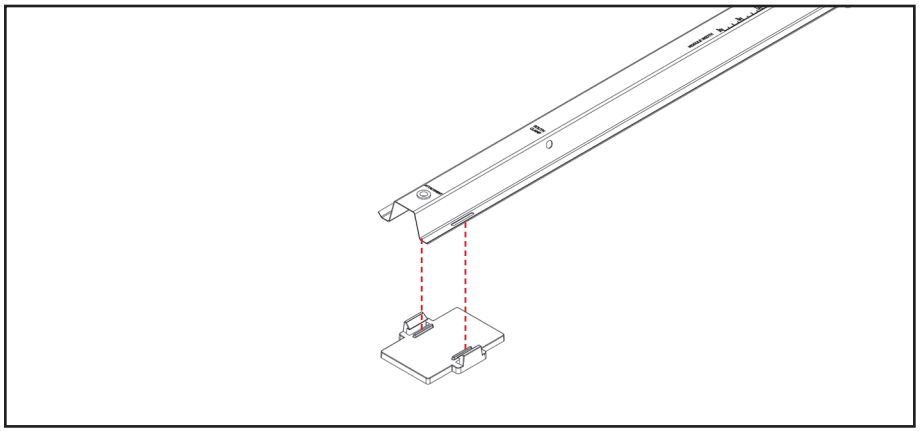
- Measure the L2 span distance from the second GridFlex Spacer and attach the third GridFlex Spacer.

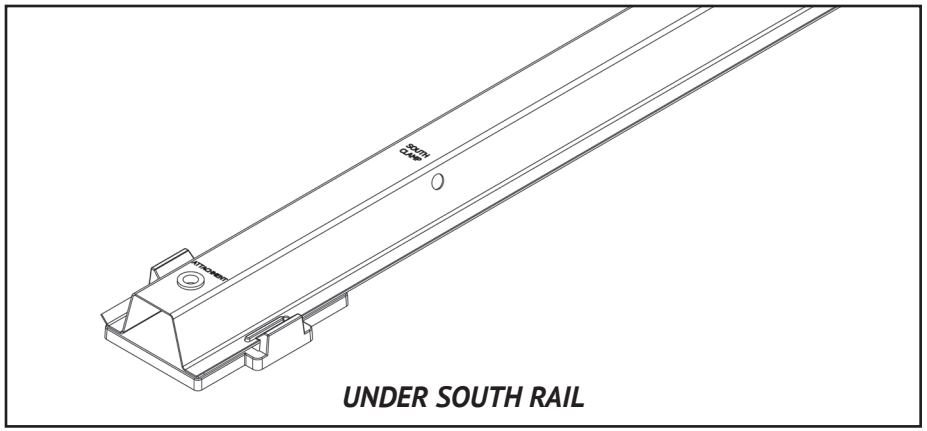
## INSTALL ROOF PADS ON RAILS

Attach roof pads to all pre-punched slots in rails. Install a roof pad under every north stanchion, rail overlap, and south clamp located at the south edge of the array.

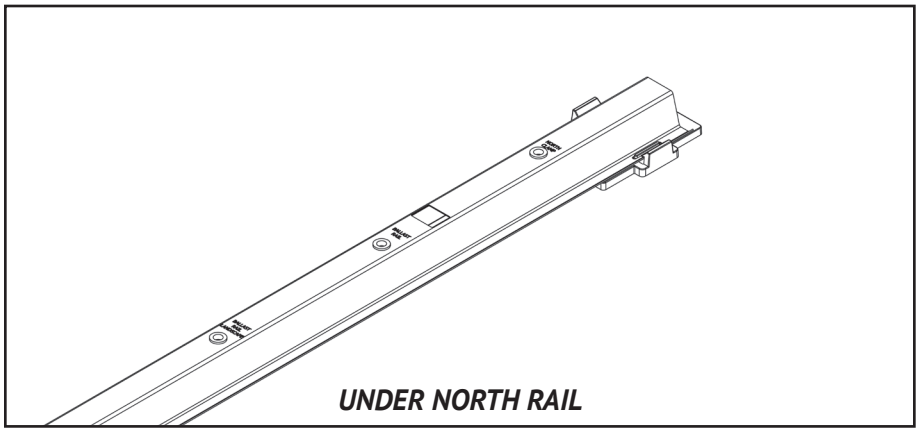
**⚠ CAUTION**

**Ensure there is no direct contact between metal parts and the roof membrane to prevent damage and potential leaks.**

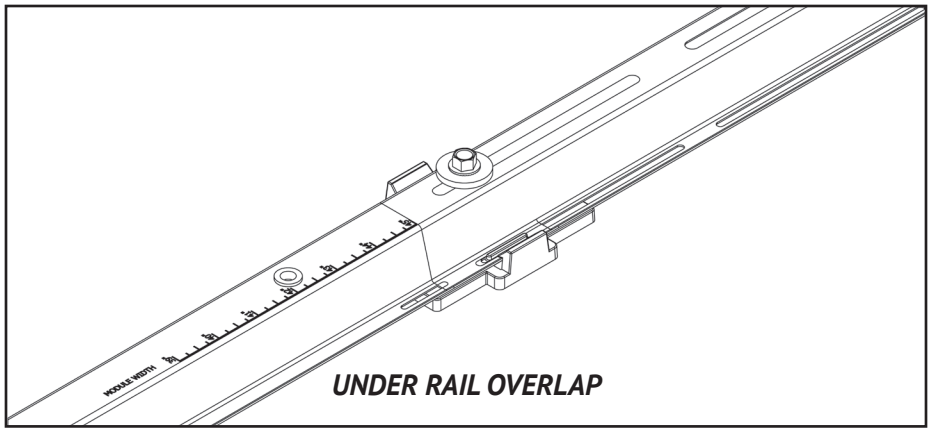




*UNDER SOUTH RAIL*



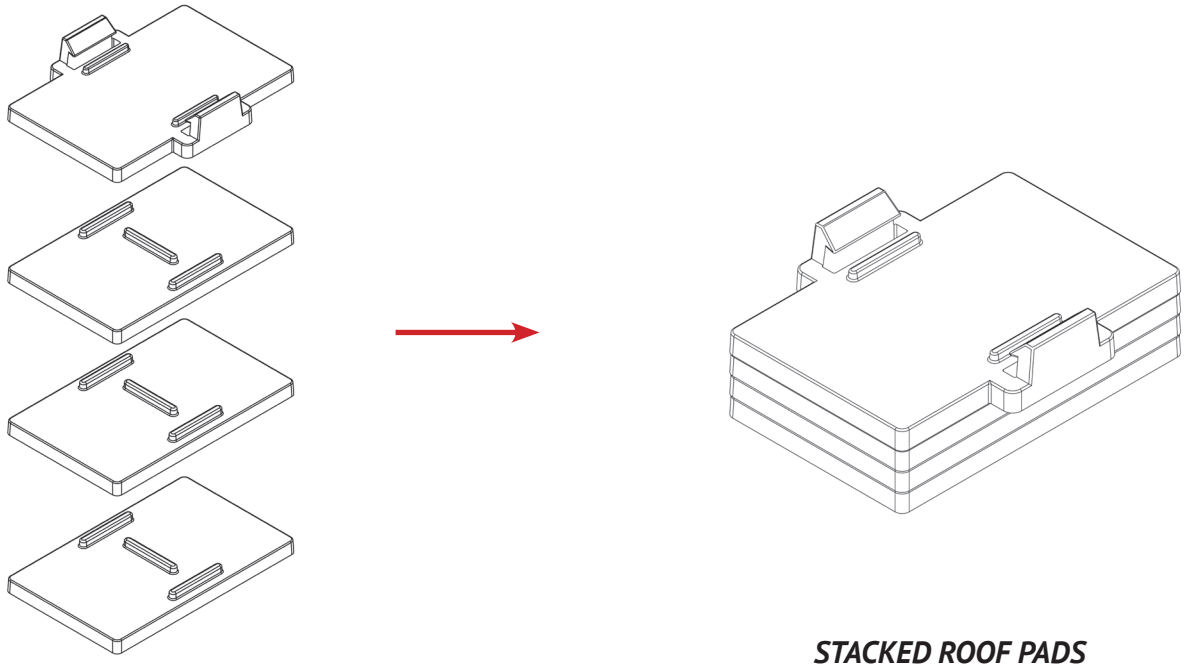
*UNDER NORTH RAIL*



*UNDER RAIL OVERLAP*

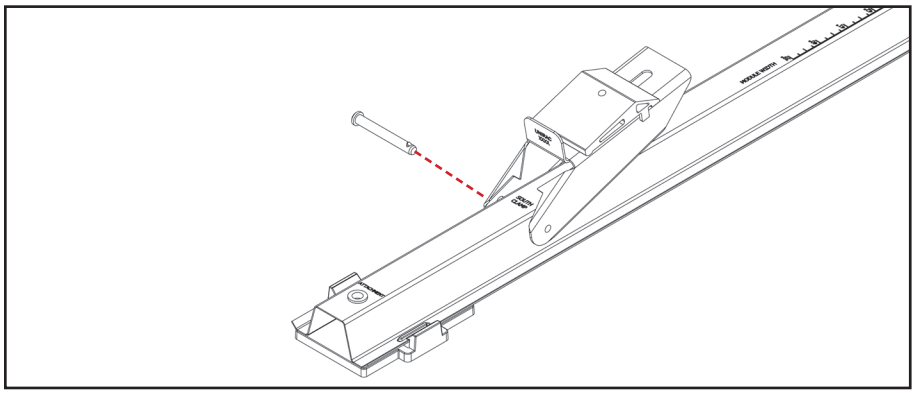
## ROOF PADS INSTALLATION AT ROOF UNDULATIONS

- When roof undulations occur at Base Rail locations, place a stack of Roof Pads beneath the Base Rail to provide support.
- Do not stack more than three (3) Roof Pads at any location.

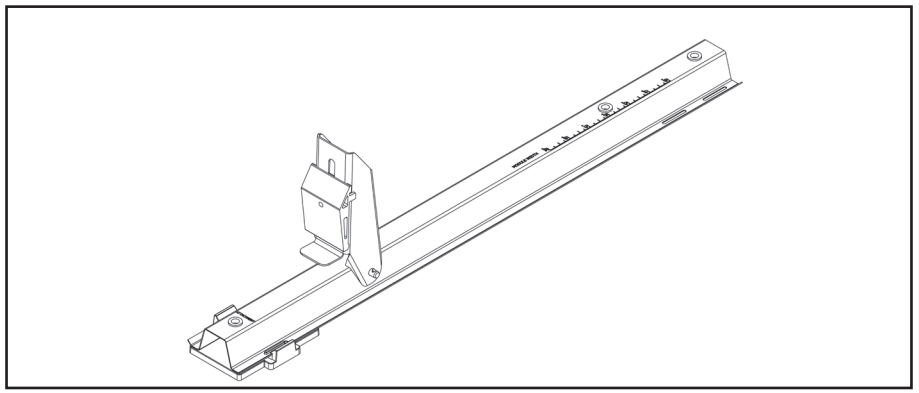


*STACKED ROOF PADS*

## STEP 6: ATTACH SOUTH CLAMP



- Place the south clamp at the specified location on the base rail.
- Align holes in the south clamp with the side holes of rail and insert a clevis pin (from either direction).
- Rotate the south clamp to vertical.

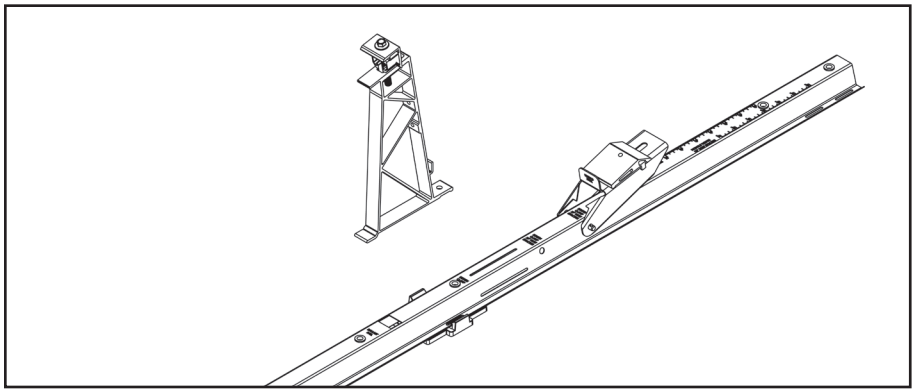


- Rotate the south clamp to vertical.

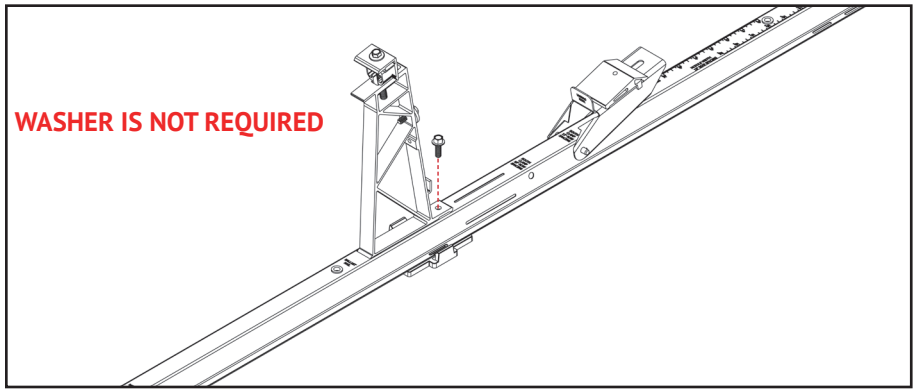
**⚠ CAUTION**

**Ensure Clevis Pin is fully inserted.**

## STEP 7: ATTACH NORTH CLAMP:

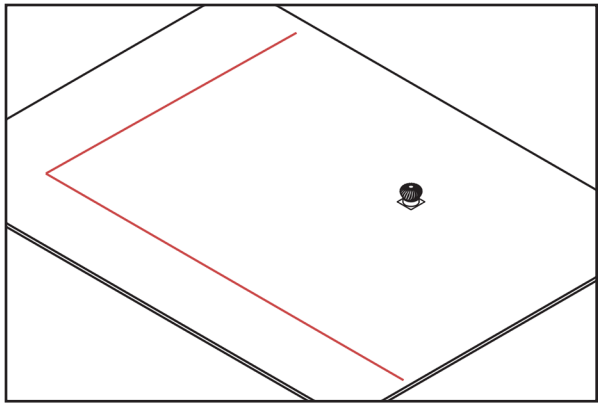


- Insert the front tab of the North Clamp into the slot on the base rail at the specified location.



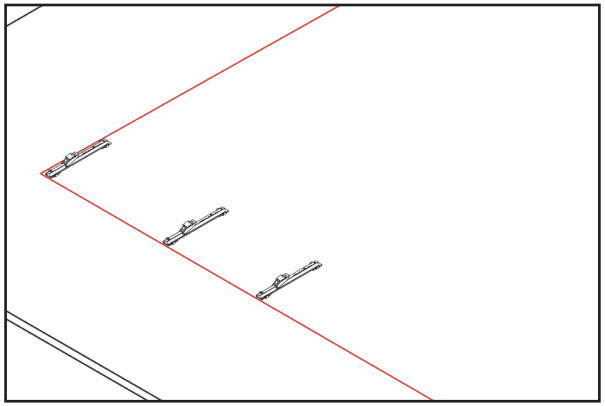

- Secure with a $^{1}/_{4}$-20 hex head bolt through the rear hole into the riv-nut

**Torque value – 12 ft-lbs**



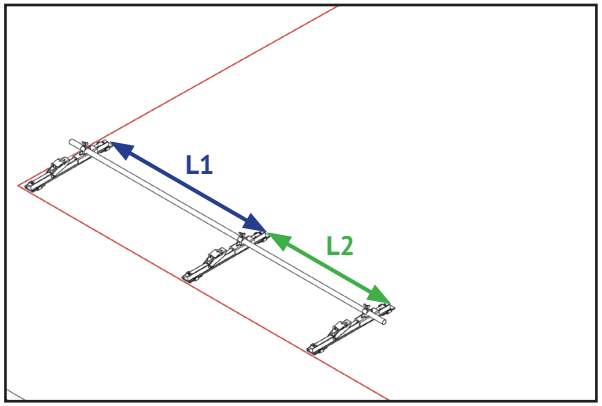
**STEP 1: MARK ARRAY LAYOUT ON ROOF:**

- Use chalk line to mark distances from roof edge as called out in construction documents.



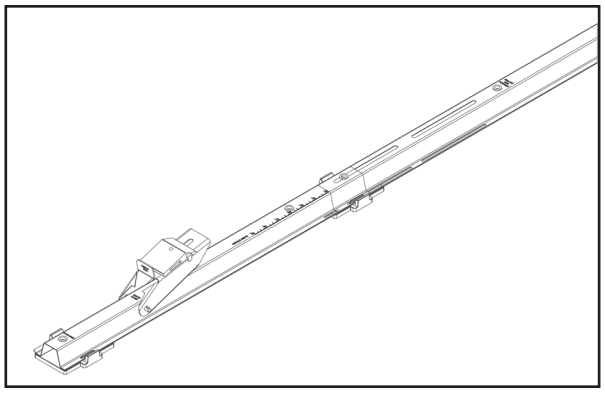
**STEP 2: LOCATE ARRAY ON ROOF:**

- Place south rails on previous chalk lines.

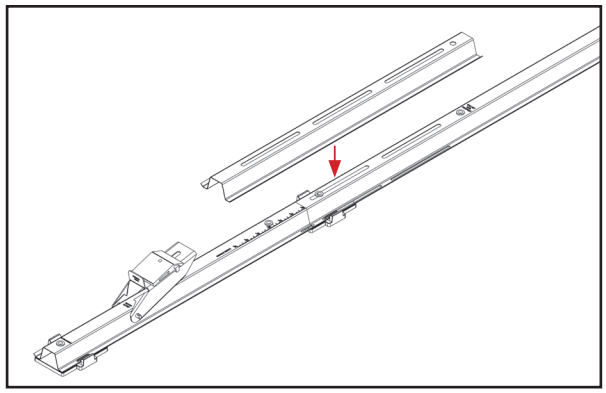



**STEP 2: LOCATE ARRAY ON ROOF (CONT.):**

- Place the south rails at the L1 and L2 rail spans using the GridFlex Spacer Jig.
- Continue the process to place all south rails in the array.

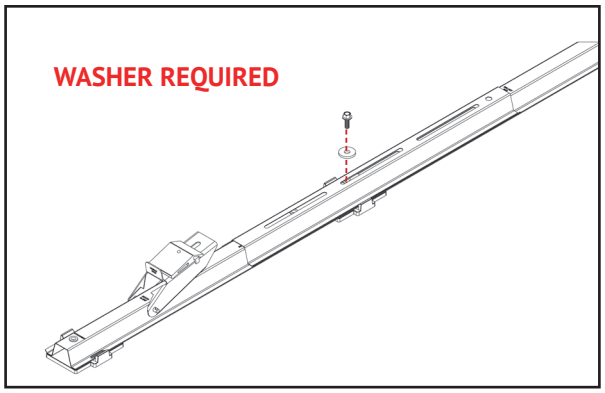


**STEP 3: ATTACH MID RAIL TO SOUTH RAIL:**
Overlap Mid-Rails on top of South Rails, use the measurement scale printed on the rail to determine the overlap length. Match the value on scale to the module width.



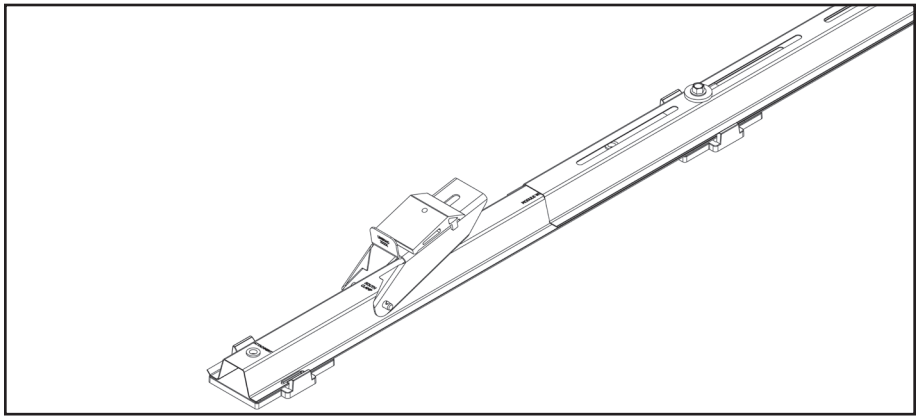
**STEP 4: ATTACH STIFFENER TO MID RAIL & SOUTH RAIL ASSEMBLY:**

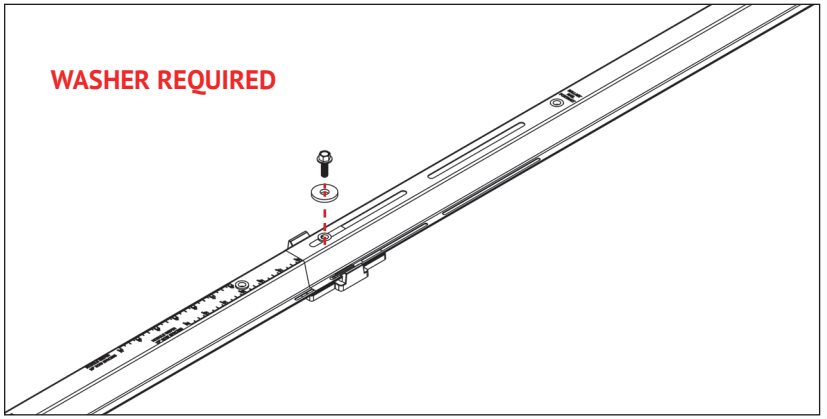
- Place the stiffener over both the mid and south rails, ensuring the hole in the stiffener aligns with the hole in the mid rail labeled 'Ballast Rail Portrait.




**STEP 5: SECURE MID RAIL TO SOUTH RAIL:**

- Insert a $^{1}/_{4}$-20 hex bolt with a flat washer through the slot in the stiffener and into the riv-nut on the south rail.






**STEP 5: ATTACH MID RAIL TO SOUTH RAIL (CONT.):**

**Torque $^1/_4$-20 hex bolt to 12 ft-lbs**

**NOTE: Stiffener is not needed for base rails with mechanical attachments**

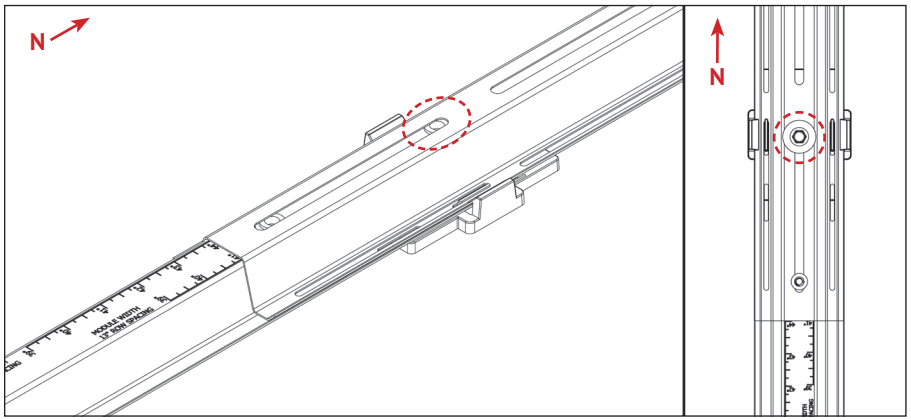
**STEP 6: ATTACH MID-RAIL TO MID-RAIL/ MID-RAIL TO NORTH-RAIL :**

- Overlap next rail (Mid or North) on top of rail laid on roof, use the measurement scale **(10", 13" or 17" row spacing)** printed on the rail to determine the overlap length.
- Match the value on scale to the module width.
- Insert $^1/_4$-20 hex bolt with flat washer into riv-nut and secure the rails.

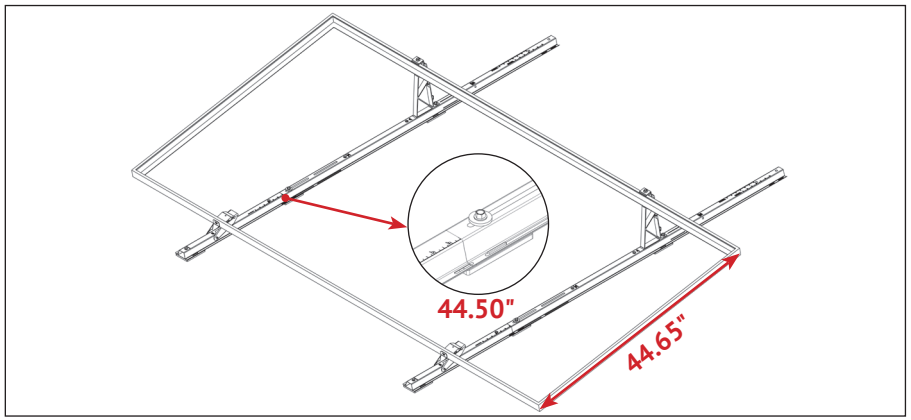
**Torque value – 12 ft-lbs**

**NOTE: Different SKUs are available for 10"/13" and 17" row spacing.**

**In STEP 5 and STEP 6**

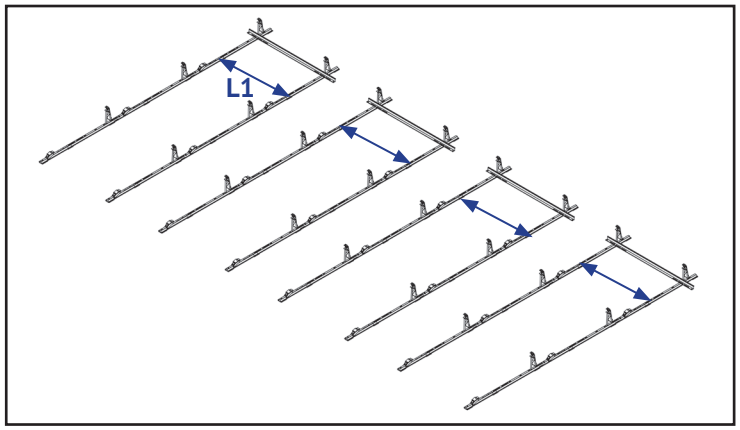



- If two riv-nuts are showing in the rail slots, secure the rails to the riv-nut that is closer to the North side.

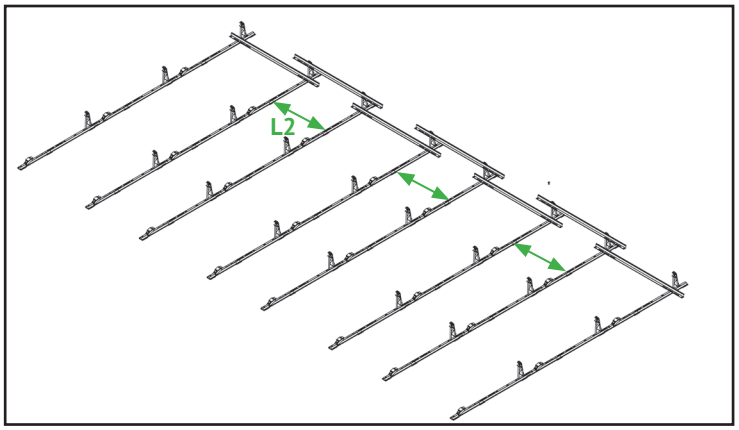



- For modules that do not measure to 1/4" increments, round down to the next 1/4" mark.
- For example, If module width is 44.65" overlap base rails at 44.50".

**STEP 7: BALLAST RAILS INSTALLATION (NORTH-SIDE OF BALLAST BLOCK):**

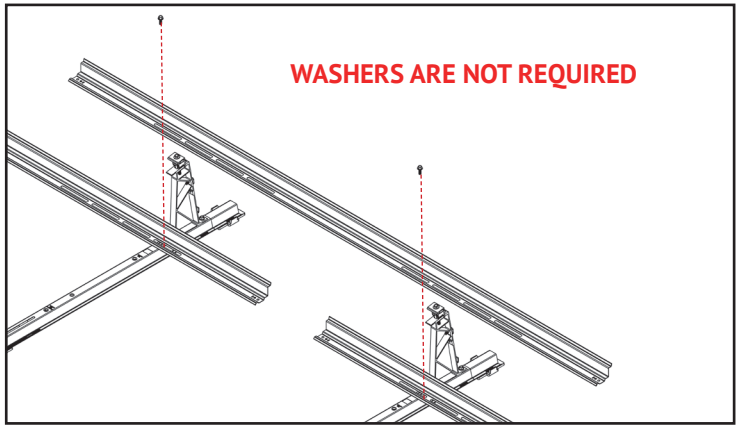



- Place the ballast rails at L1 span locations at array edges



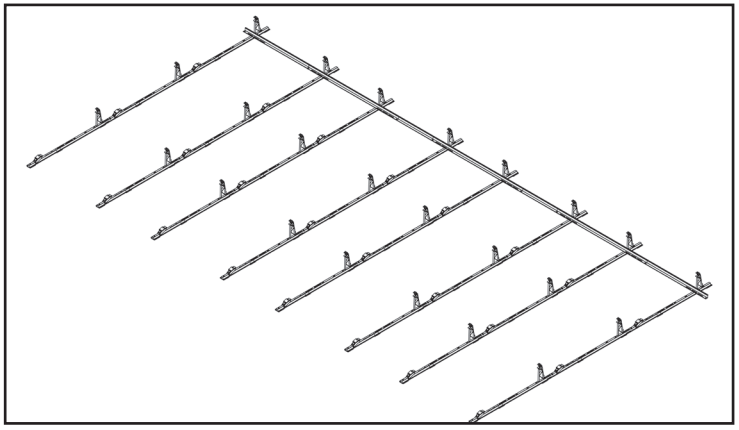

- Then place the ballast rails at L2 span locations.
- Align the slots in the ballast rails with the holes on the base rail.

**IMPORTANT : Ensure L2 ballast rails are placed on top of L1 ballast rails.**



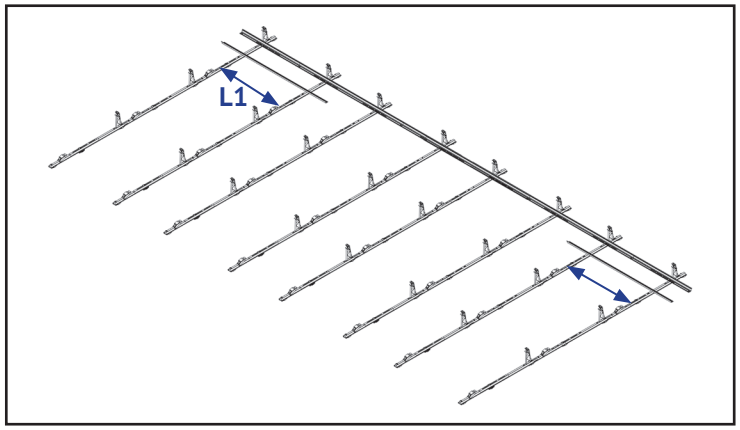

- Secure the ballast rail to the mid/north rails with a $^{1}/_{4}$-20 hex head bolt at a specified location to place ballast blocks in Portrait orientation.

**Torque value – 12 ft-lbs**

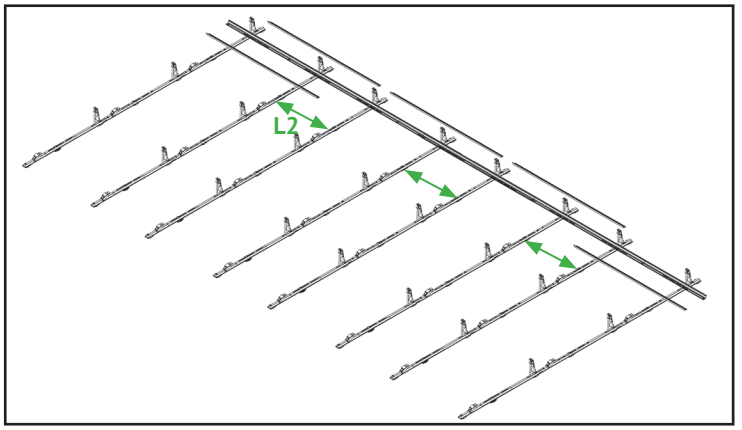


**NOTE**
**Always install Steel Ballast Rails (380302-US) on the north side of the ballast block.**

**STEP 8: BALLAST RAILS INSTALLATION (SOUTH-SIDE OF BALLAST BLOCK):**

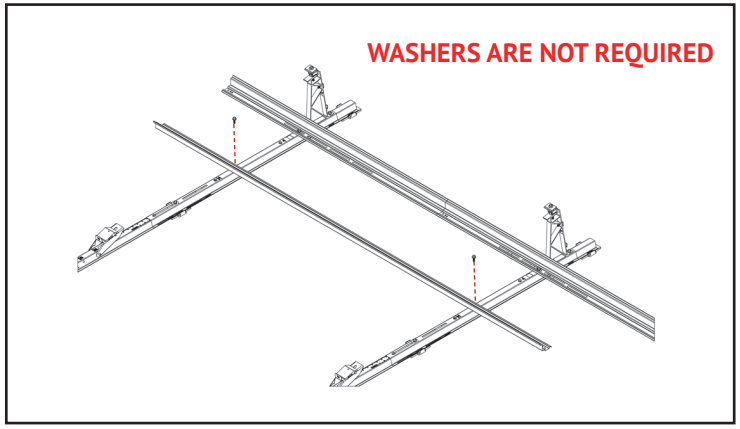



- Place the ballast rails at L1 span locations at array edges



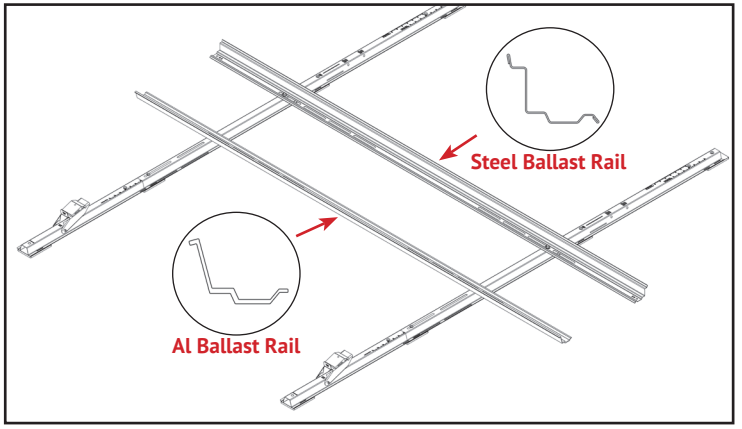

- Then place the ballast rails at L2 span locations.
- Align the slots in the ballast rails with the holes on the base rail.

**IMPORTANT : Ensure L2 ballast rails are placed on top of L1 ballast rails.**

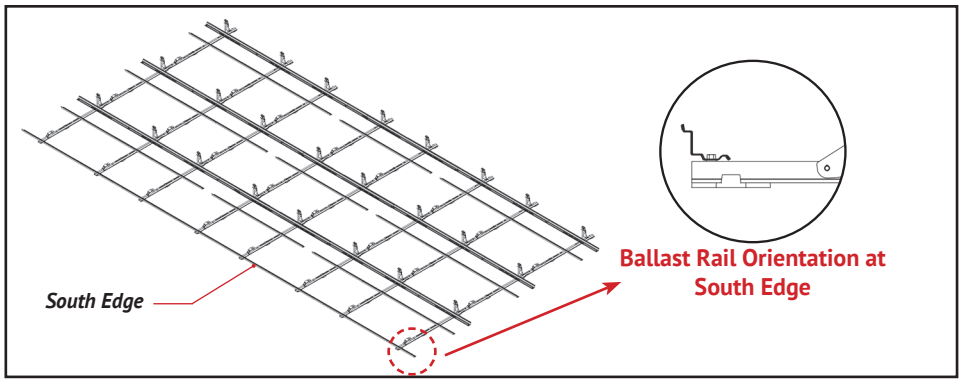



- Secure the ballast rail to the mid/north rails with a $^{1}/_{4}$-20 hex head bolt at a specified location to place ballast blocks in Portrait orientation.

**Torque value – 12 ft-lbs**




**NOTE**
**If the construction drawings include the aluminum ballast rails (380305-US), install them at the south ballast rails position.**

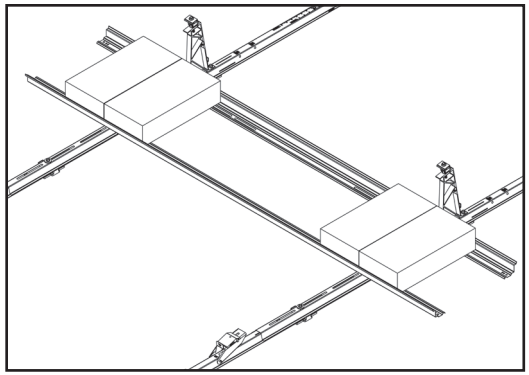


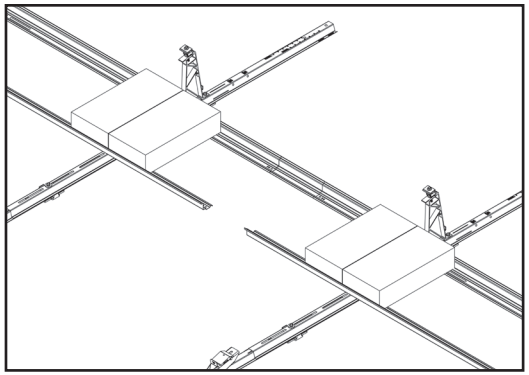

**STEP 9: BALLAST RAILS INSTALLATION (SOUTH EDGE OF ARRAY):**

- Follow **STEP 7** to install ballast rails on the south edge of the array.

**Note:**

**Always use Steel ballast rails (380302-US) at the south edge of the array.**

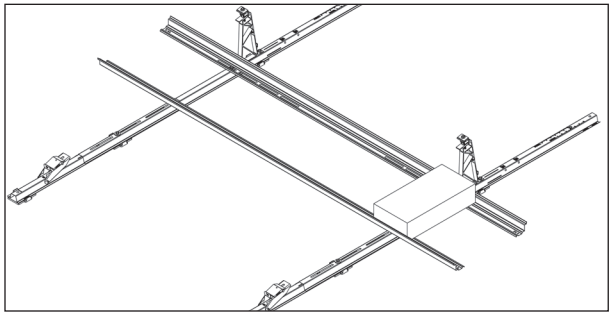




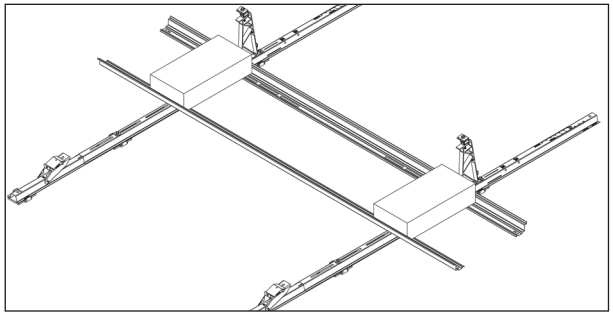
**STEP 10: LAY BALLAST BLOCKS:**

- Lay ballast blocks into ballast rails and quantity of blocks to be placed should be as per engineering report or U-Builder report.
- Ballast block placement for a given number of blocks - See pages ***16 & 17***

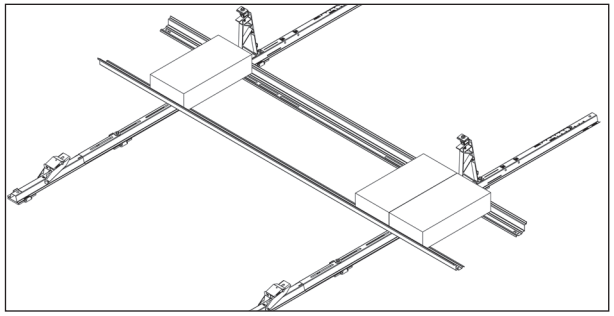
## BALLAST BLOCKS CONFIGURATIONS AT EAST -WEST EDGES



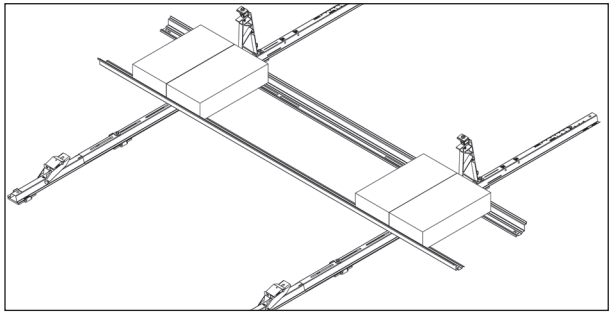
1-Block Configuration



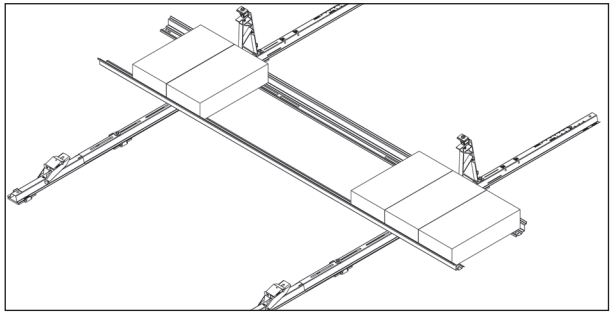
2-Block Configuration



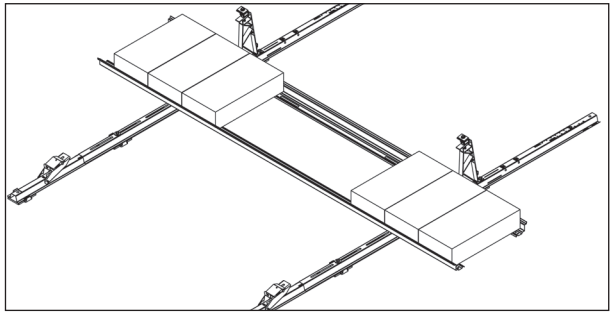
3-Block Configuration



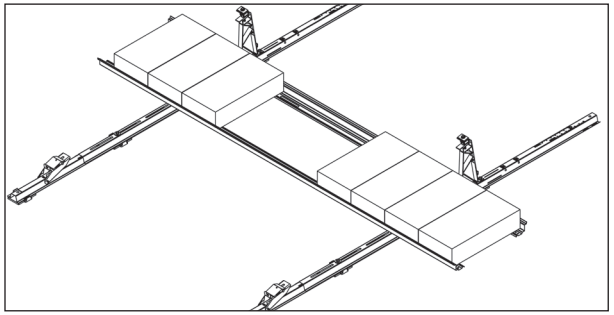
4-Block Configuration



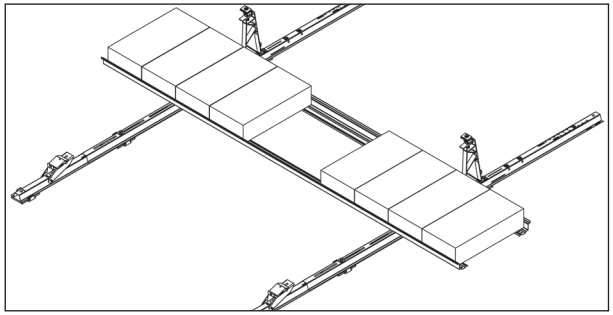
5-Block Configuration



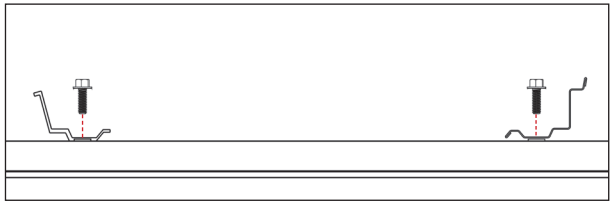
6-Block Configuration



7-Block Configuration

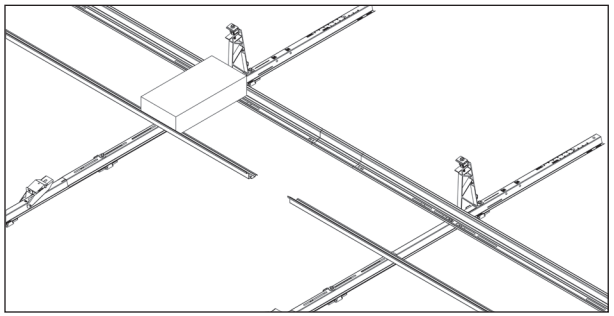


8-Block Configuration

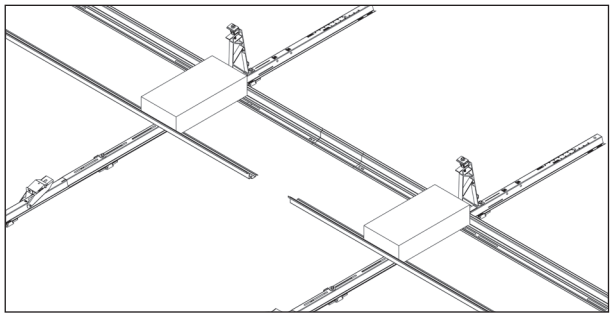


**NOTE:**
**Ballast blocks are concentrated around the base rails. For an odd number of ballast blocks, place higher number of ballast blocks closer to array edge.**

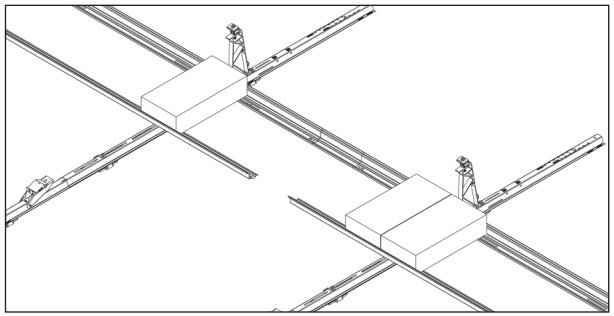
## BALLAST BLOCKS CONFIGURATIONS AT L2 SPANS



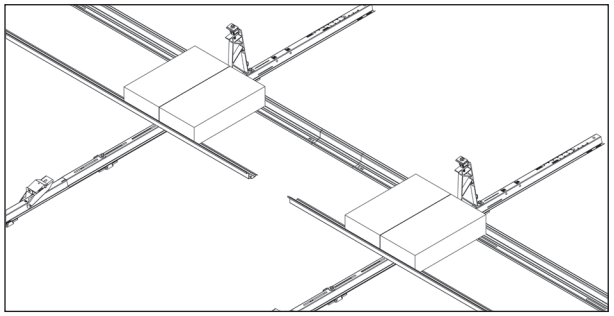
1-Block Configuration



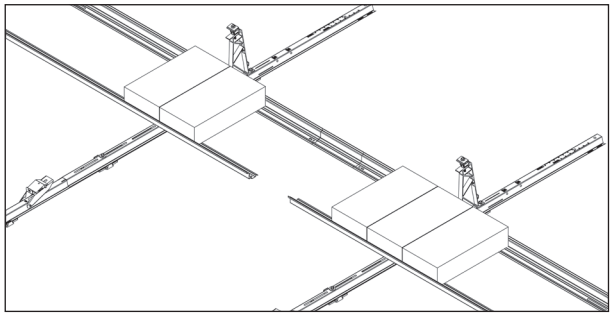
2-Block Configuration



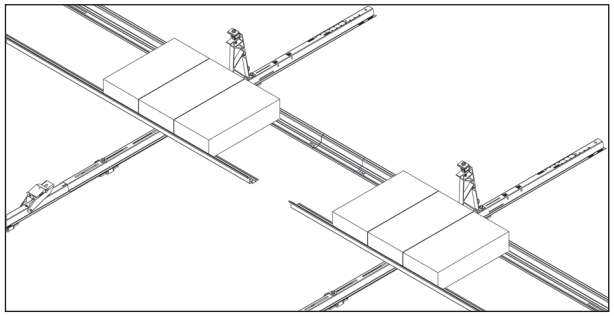
3-Block Configuration



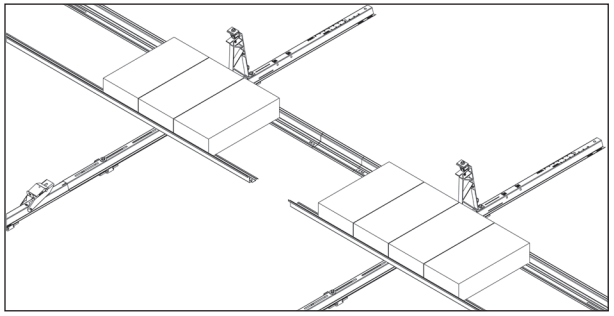
4-Block Configuration



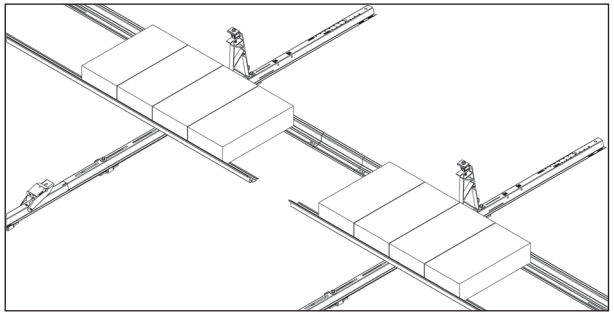
5-Block Configuration



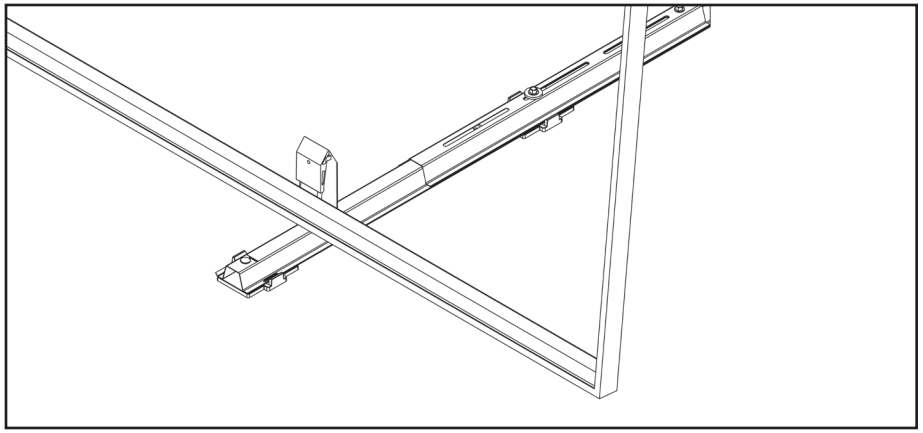
6-Block Configuration



7-Block Configuration

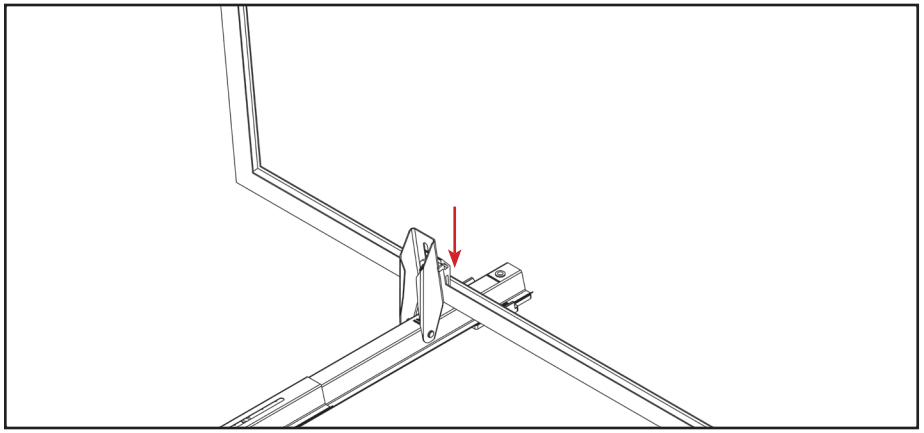


8-Block Configuration



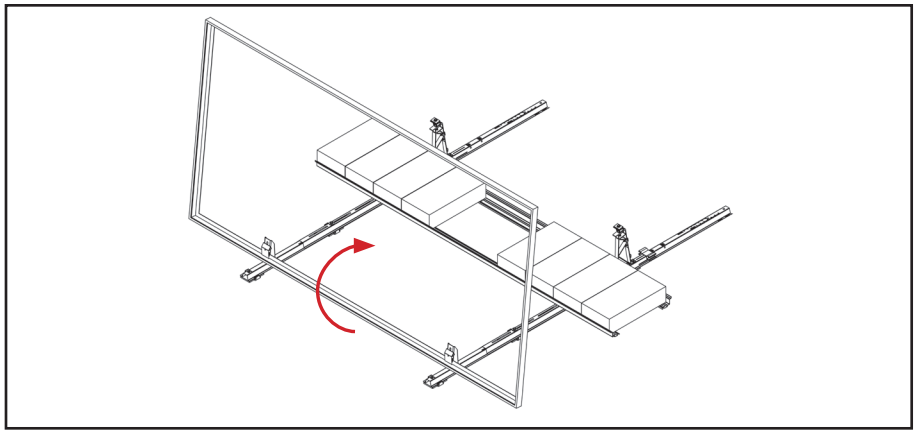
**STEP 11:**
Place module at South Clamps.

**NOTE: To maintain the fire rating, orient the module J-Box away from the array east and west edges.**

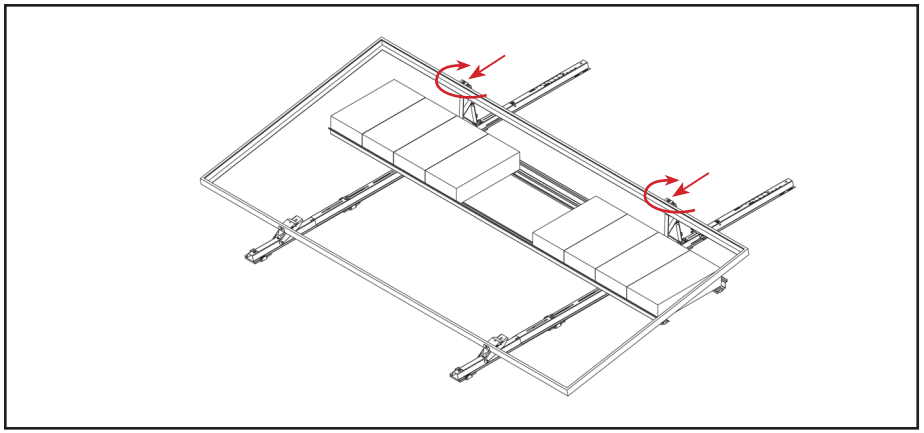


**STEP 12:**
Push sliders down to fully engage module flange and tighten the bolt.

**Torque the bolt to 12 ft lbs**



**STEP 13:**
Rotate the module downward and position it on the north stanchions.

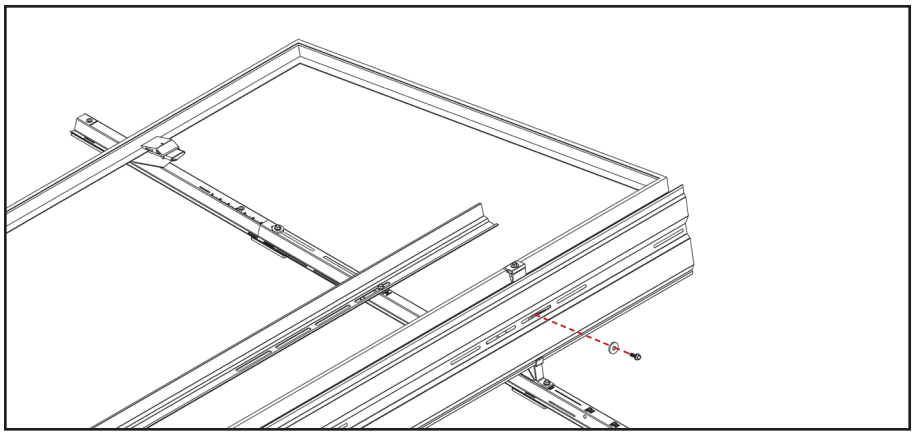


**STEP 14:**
Slide the north clamps onto the module and tighten the bolts.

**Torque the bolt to 12 ft-lbs.**

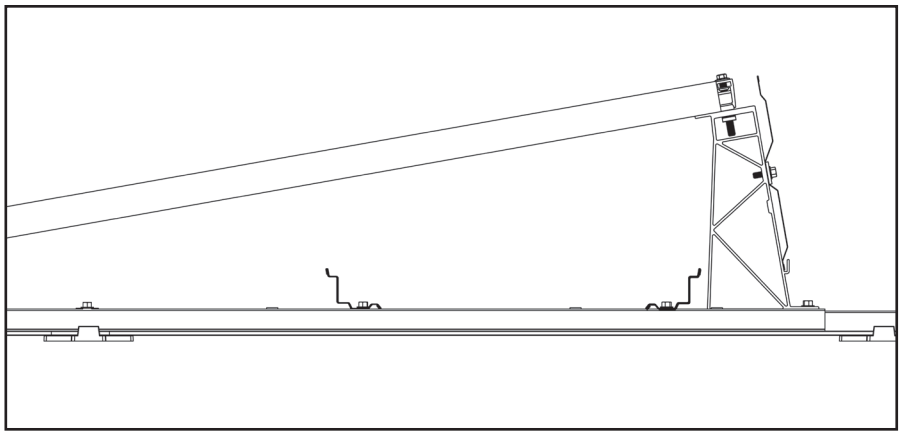
Complete modules installation by repeating STEP 12 to STEP 15.

**NOTE: Ensure clamps are fully seated against the module.**



**STEP 15: INSTALL WIND DEFLECTOR**

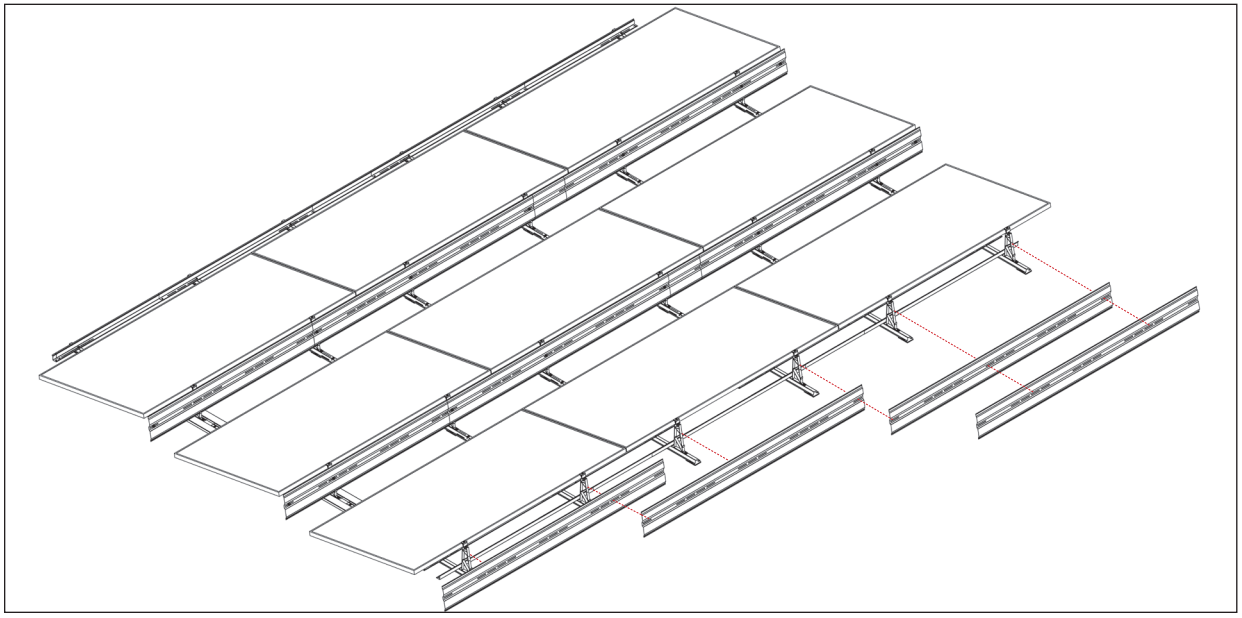
- Position the wind deflector in the tab of the north stanchion.
- Align the wind deflector with the module end and slots of the north stanchion holes.



**STEP 16:**

Secure wind deflector to north stanchion with a $^{1}/_{4}$-20 hex head bolt and washer.

**Torque the bolt to 12 ft-lbs.**



**NOTE**

**A row of "n" modules requires "n+1" wind deflectors"**

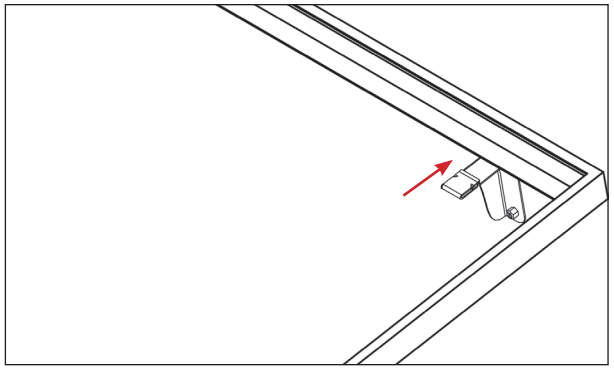
**⚠ CAUTION**

**Ensure that each wind deflector is attached to three north stanchions, while the east and west edge wind deflectors are attached to only two north stanchions.**

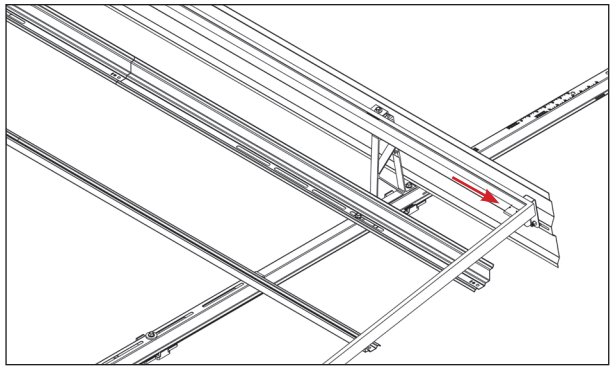
**⚠ CAUTION**

**Install wind deflectors immediately after modules are installed. Failure to do so may result in system instability or damage during high wind conditions.**

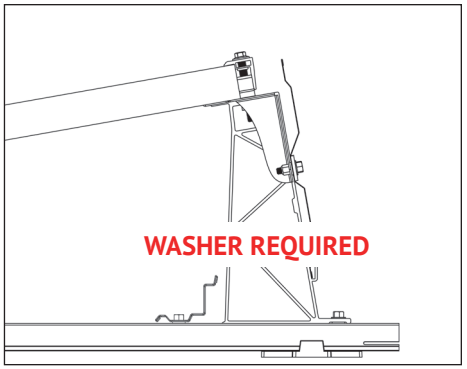
**STEP 17: WIND DEFLECTOR BRACKET INSTALLATION**



Position bracket within 3" of module edge and pull it to engage with module's return flange. .

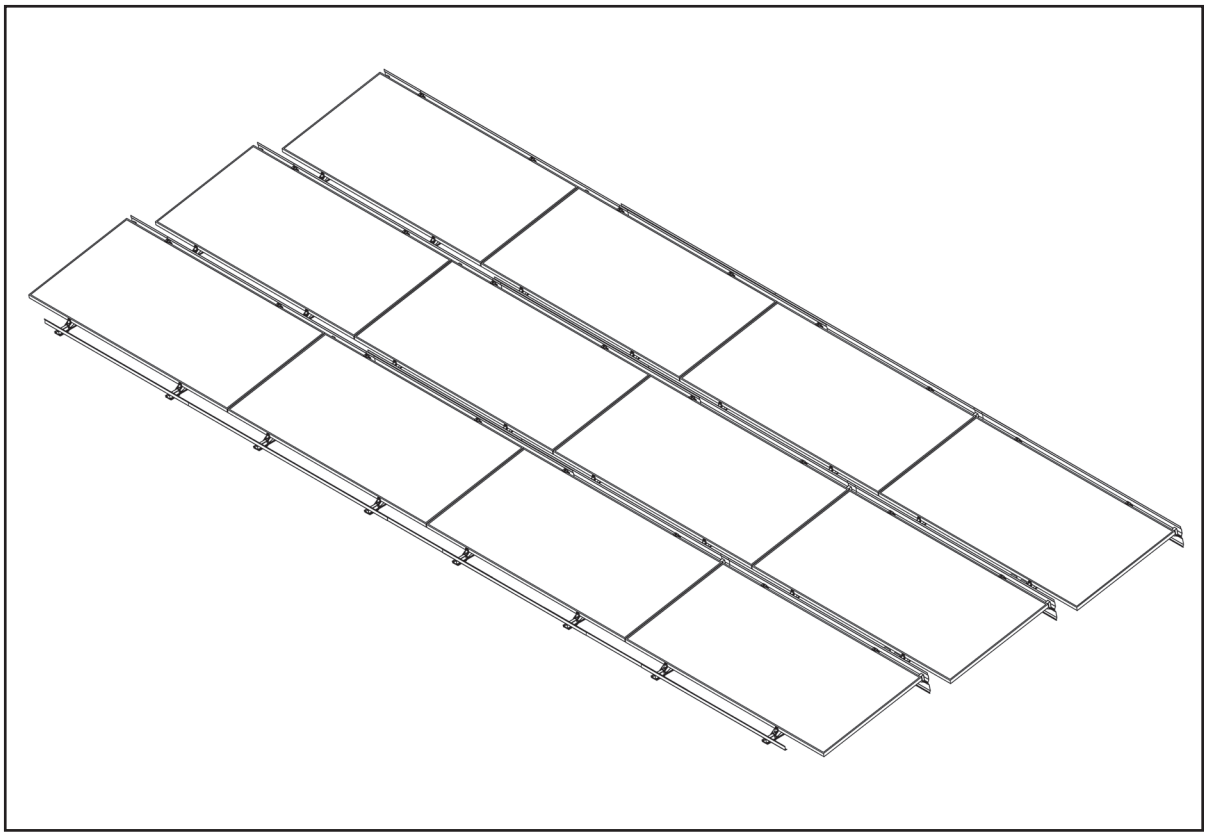


Secure the bracket to the wind deflector with a $^{1}/_{4}$-20 hex head bolt and washer.

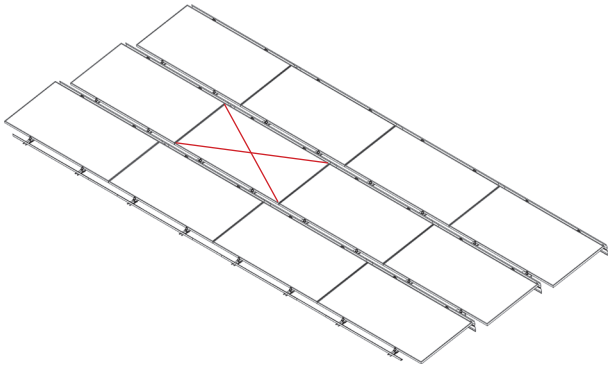



**Torque the bolt to 12 ft-lbs.**

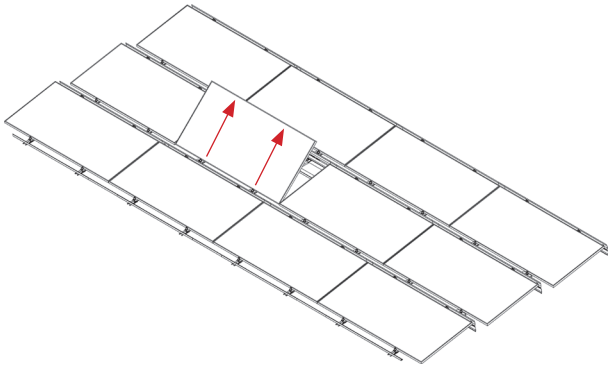
**NOTE: Wind deflector brackets are installed only at the east and west edges of the array.**



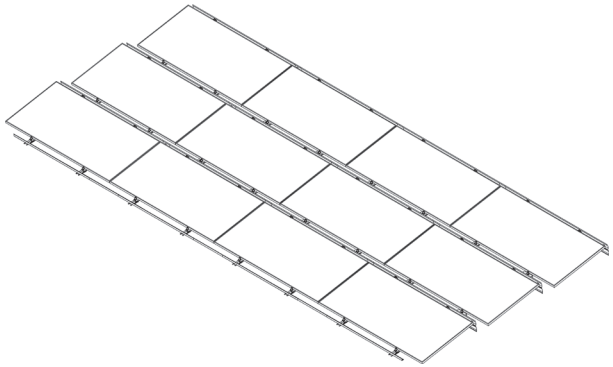
**STEP 18:**
Verify that all fasteners are tightened to the **12 ft-lbs** torque.



**STEP 1:** Locate the module to be replaced. Loosen the hexagonal bolt in both the north stanchion's clamp to which the module is connected.



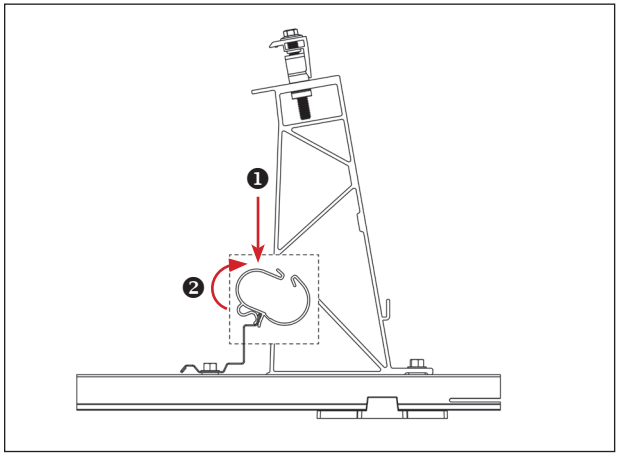
**STEP 2:** Now lift the module from north edge and rotate it to vertical towards the south.
Loosen the bolt in the south clamp.



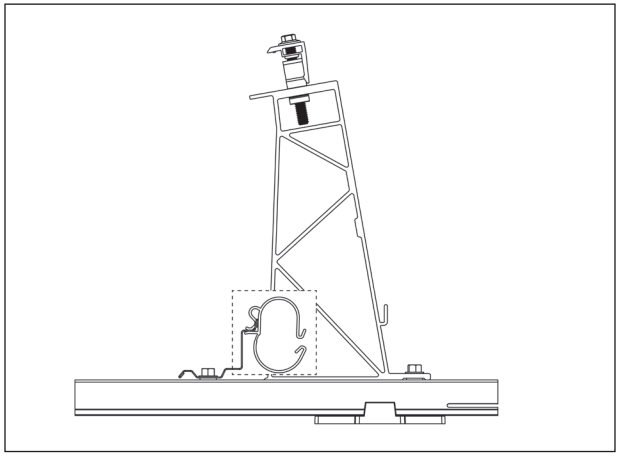
**STEP 3:** Remove the module and re install the new module by following steps mentioned on ***page 18***.

**IMPORTANT:**
**Unirac recommends periodic re-inspection of the installation for loose components, loose fasteners, and any corrosion, such that if found, the affected components are to be immediately re-tightened or replaced.**

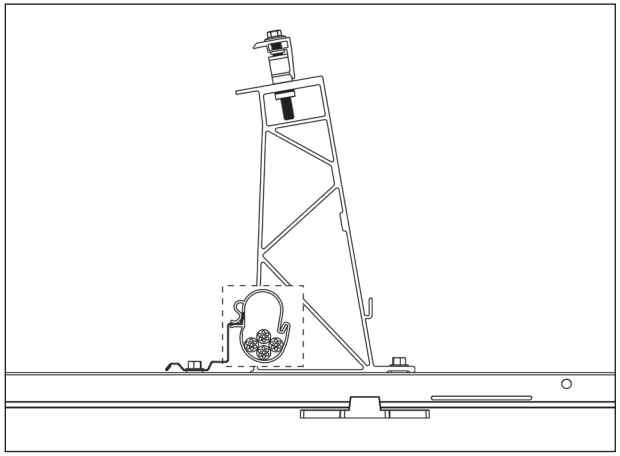
## INSTALL WIRE MANAGEMENT CLIP




- Place the wire management clip on the ballast rail and press it to engage.

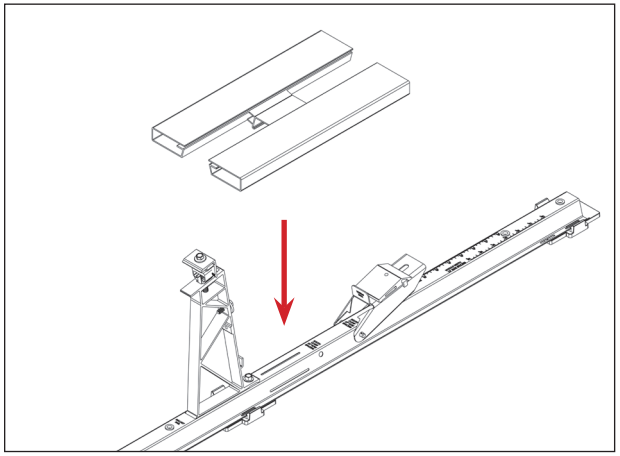


- Rotate the wire management clip to secure it to the ballast rail.

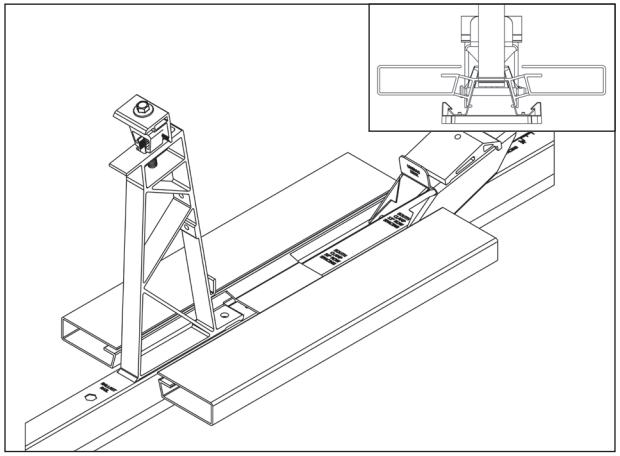


- Ensure the clip is fully locked after placing all wires into the clip.

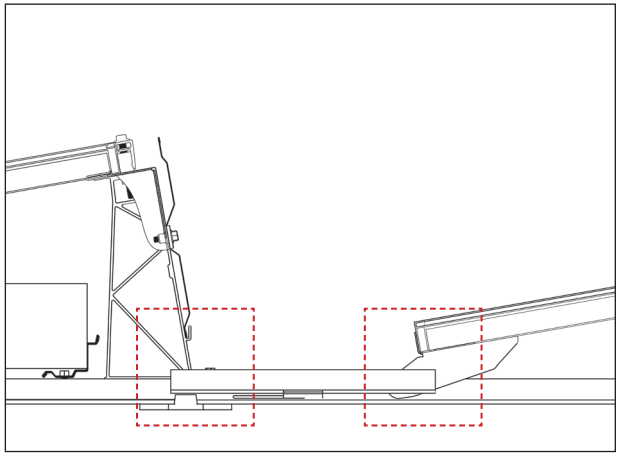
## INSTALL HOMERUN WIRE MANAGEMENT COVER



- Place the Homerun cover over the mid-rail.



- Press down until the tabs engage with the side slots of the mid-rail.



**NOTE: Ensure the Homerun Wire Management Cover extends beneath the module edge on the north end and beneath the wind deflector on the south end.**

**⚠ CAUTION**

- **Events such as high winds and seismic activity may cause array movement and displace wire management components. Inspect all wire management components after such events or at a minimum interval of 5 years and immediately reposition or replace any displaced or damaged components.**

**GROUNDING LUG MOUNTING DETAILS AS REQUIRED BY CODE & ENGINEER OF RECORD:** The Ilsco lug has a green colored set screw for grounding indication purposes. One lug is recommended per continuous array, not to exceed 150ft X 150ft.
Unirac GridFlex 10 is intended to be used with PV modules that have a system voltage less than or equal to that allowable by the National Electric Code (NEC). It is the installer's responsibility to check adherence to local codes.

**NOTE: The installation must be conducted in accordance with the National Electric Code ANSI / NFPA 70.**

| GROUND LUG | BOLT SIZE | TORQUE VALUE |
|---|---|---|
| Ilsco Lug SGB-4 | 1/4" - 20 | 6.5ft-lbs (75 in-lbs) |
| Ilsco Lug GBL-4 | #10 - 32 | 2.9ft-lbs (35 in-lbs) |
| Wiley 6.7 | 1/4" - 20 | 10ft-lbs (120 in-lbs) |

**NOTE: In order to prevent corrosion induced by dissimilar metals, it is important to verify that the bare copper wire does not come into contact with aluminum or galvanized steel. These metals must be kept separate.**

Although conformance with UL2703 was demonstrated without the use of oxide inhibitor material, it is recommended by Ilsco.

Ilsco SGB.4 Solar Grounding & Bonding



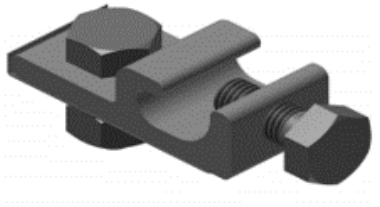
**TERMINAL TORQUE:**
Install conductor and torque to the following: **4-14 AWG: 35 in-lbs**

Ilsco GBL-4 Solar Grounding & Bonding



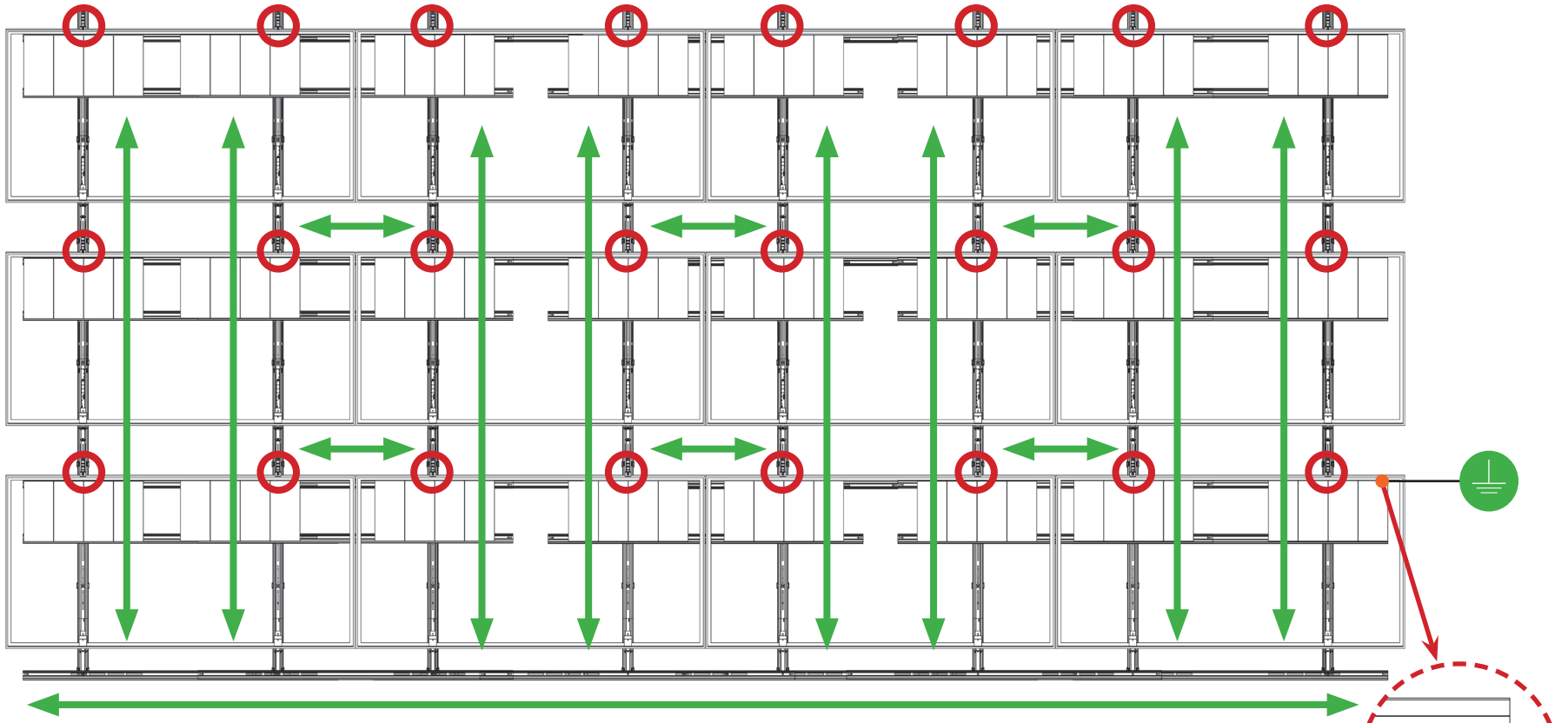
**TERMINAL TORQUE:**
Install conductor and torque to the following: **4-6 AWG: 35 in-lbs, 8 AWG: 25 in-lbs**

Wiley WEWB-Lug 6.7 Solar Grounding & Bonding



**TERMINAL TORQUE:**
Install conductor and torque to the following: **4-6 AWG: 10 ft-lbs, 6-14 AWG: 7 ft-lbs**

**All Lugs in this page are rated for Single Use Only.**




Bonding Clamp

Grounding Lug

Min. 10AWG, 105°C Copper Wire

Grounding location on Ballast Rail

**NOTE: Grounding path can be established by installing the ground lug and copper wire connection at specified locations on ballast rails**

**SYSTEM LEVEL FIRE CLASSIFICATION:** The system fire class rating is only valid when the installation is conducted in accordance with the assembly instructions contained in this manual over a fire resistant roof covering rated for the application. GridFlex 10 has been classified to the system level fire portion of UL2703. It has achieved Class A performance for low sloped roofs when used in conjunction with type 1, 2, 3 with a metal frame, 19, 22, 25, 29 and 30 module constructions. Please see the specific conditions for mounting details described within this document required to maintain the Class A fire rating. Minimum and maximum roof slopes are restricted through the system design and layout rules. The fire classification rating is only valid on roof pitches less than 2:12 (slopes < 2 inches per foot, or 9.5 degrees).

**IMPORTANT: Wind Deflectors are required throughout the array to maintain Class A fire rating.**

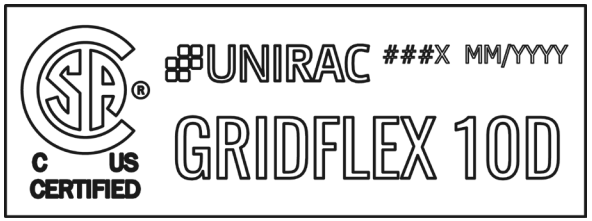
**NOTE: Fire Type information can be found on back of modules or through manufacturers documentation. Some building codes and fire codes require minimum clearances around PV racking installations, and the installer should check local building code requirements for compliance.**

**CLASS A FIRE RATING MOUNTING ORIENTATION**

GridFlex 10 has achieved Class A system level fire performance for type 1, 2, 3 with a metal frame, 19, 22, 25, 29 and 30 module constructions. In order to maintain the fire rating, the module J-Box must be oriented away from the array east-west edges.

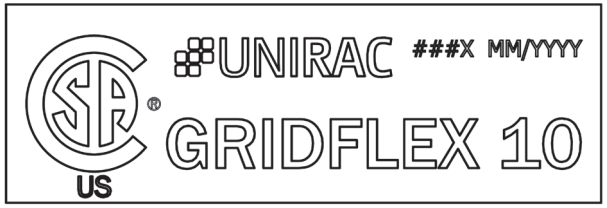
**UL2703 System Label:** To comply with UL2703 system rating, North rail has a stamp of system label as shown below



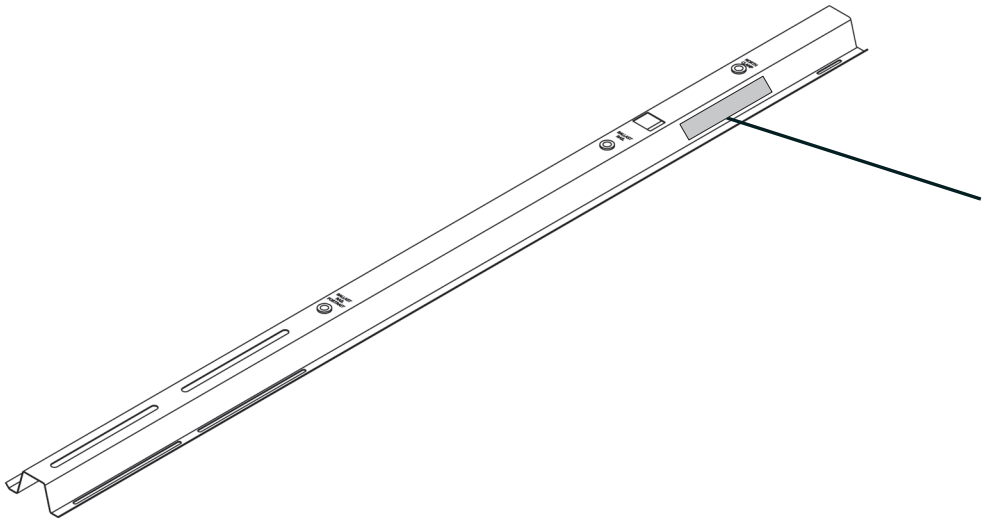










###X - Vendor ID
MM/YYYY - Month and Year of Manufacturing



**Note: North Rail has a system label at the location shown in the diagram.**

**MECHANICAL LOAD TEST QUALIFICATION**

The GridFlex 10 system has been tested to the mechanical load provisions of UL2703 and covers the following basic parameters:

- PV module may have reduced load rating, independent of the GridFlex 10 rating. Please consult the PV module manufacturer's installation guide for more information.
- Load rating may vary based on PV module area. Please Contact Unirac for more information

See the table below for UL 23703 system design loads in the up, down, and downslope directions for the various system installation configurations

| Module Manufacturer | Model | Module Area (sq ft) | Downward Design Load (psf) | Upward Design Load (psf) Non-South Row Modules & South Row Modules with Either Ballasting or Mechanical Attachment South of the South Row Modules | Upward Design Load (psf) South Row Modules with South Rail Stiffener | Downslope Design Load (psf) |
|---|---|---|---|---|---|---|
| Jinko | JKMxxxM-72HL4-TV | 27.76 | 50.48 | 31.01 | 10.03 | 8.93 |
| ZN Shine | ZXM8-TPLDD132 | 33.44 | 17.59 | 18.55 | 5.38 | 6.20 |
| SunPower | SPR-P19-390-COM | 22.2 | 60.12 | 38.57 | #N/A | 11.91 |

The following table lists the modules that have been mechanically load tested according to the CSA TIL NO. A-40 standard and UL 2703installation configurations

| Module Manufacturer | Model | Module Area (sq ft) | Downward Design Load (psf) | Upward Design Load (psf) Non-South Row Modules & South Row Modules with Either Ballasting or Mechanical Attachment South of the South Row Modules | Downslope Design Load (psf) |
|---|---|---|---|---|---|
| Jinko | JKMxxxM-72HL4-TV | 27.76 | 40.5 | 34.1 | 7.2 |

**NOTE: Design loads are equal to tested loads with 1.5 safety factor applied.**

**Electrical Bonding and Grounding Test Modules**

The list below is not exhaustive of compliant modules but shows those that have been evaluated and found to be electrically compatible with the GridFlex 10 system.

| Manufacture | Module Model / Series |
|---|---|
| Aionrise | AION60G1<br>AION72G1 |
| Aleo | P-Series<br>S-Series |
| AMPS | AMPS-xxxN-108BB<br>AMPS-xxxP-54BB |
| Aptos Solar | DNA-108-(MF/BF)10-xxxW<br>DNA-120-(MF/BF)10-xxxW<br>DNA-120-(MF/BF)23<br>DNA-120-(MF/BF)26<br>DNA-120-MF10<br>DNA-144-(MF/BF)23<br>DNA-144-(MF/BF)26<br>DNA-144-BF10-xxxW-DG |
| Astronergy | CHSM6612 M, M/HV<br>CHSM6612P/HV Series<br>CHSM6612P Series<br>CHSM66M(DG)/F-BH<br>CHSM72M(DG)/F-BH (Fire Type 29 only)<br>CHSM72M-HC<br>CHSM72N(DG)/F-BH (Fire Type 29 only) |
| Auxin | AXN6M610T<br>AXN6P610T<br>AXN6M612T<br>AXN6P612T<br>AXNG1M SERIES |

| Manufacture | Module Model / Series |
|---|---|
| Axitec | AC-xxx(M/P)/60S<br>AC-xxx(M/P)/72S<br>AC-xxxMH/120(S/V/SB/VB)<br>AC-xxxMH/144(S/V/SB/VB)<br>AC-xxxP/156-60S<br>AC-xxxTGB/108BB<br>AC-xxxTGB/144TS<br>AC-xxxTGB/144WS-US<br>AC-xxxTGB/96BB |
| Bluesun Solar | BSMxxxM10-72HBD |
| Boviet Solar | BVM6610<br>BVM6612<br>BVM6612M-XXXS-H-HC-BF-DG<br>BVM7612M-H-HC-BF-DG |
| BYD | MHK-36 Series<br>P6K |
| Canadian Solar | CS1(H/K/U/Y)-MS<br>CS3K-(MB/MB-AG/MS/P/P HE/PB-AG)<br>CS3L-(MS/P), CS3N-MS<br>CS3U-(MB/MB-AG/MS/P/P HE/PB/PB-AG)<br>CS3W-(MB-AG/MS/P/P-PB-AG)<br>CS3Y-MB-AG, CS5A-M<br>CS6.1-54TM-H<br>CS6.1-60TM-H<br>CS6.1-72TB-H<br>CS6.2-48TM-xxxH |

| Manufacture | Module Model / Series |
|---|---|
| Canadian Solar (Cont.) | CS6.2-66TB-xxxH<br>CS6.2-66TB-xxxHR<br>CS6K-(M/MS/MS AllBlack/P/P HE)<br>CS6P-(M/P), CS6R-MS<br>CS6R-xxxMS-HL<br>CS6U-(M/P/P HE), CS6W-(MB-AG/MS)<br>CS6W-xxx-TB-AG<br>CS6X-P, CSX-P, CS7L-MB-AG<br>CS7L-MB-AG<br>CS7L-TB-AG<br>CS7L-xxxMB-AG<br>CS7N-xxxMB-AG<br>CS7N-xxx MS<br>CS7N-xxxTB-AG<br>ELPS CS6(A/P)-MM |
| Centrosolar America | C-Series & E-Series |
| CertainTeed | CT2xxMxx-01<br>CT2xxPxx-01<br>CT54M10XXX-N07<br>CT72M10XXX-N07<br>CTM10400HC11-06<br>CTM10400HC11-08<br>CTM10400HC11-09<br>CTTCxxxHC12-08<br>CTxxxHC11-04<br>CTxxxHC11-06<br>CTxxxMxx-01<br>CTxxxMxx-02<br>CTxxxMxx-03<br>CTxxxMxx-04<br>CTxxxPxx-01 |

- Unless otherwise noted, all modules listed above include all wattages and specific models within that series. Variable wattages are represented as "xxx"
- Items in parenthesis are those that may or may not be present in a compatible module's model ID
- Slashes "/" between one or more items indicates that either of those items may be the one that is present in a module's model ID.
- The frame profile must not have any feature that might interfere with the bonding devices that are integrated into the racking system
- Use with a maximum over current protection device OCPD of 30A
- Please see GridFlex 10 information at Unirac.com to ensure the exact solar module selected is approved for use with GridFlex 10
- Listed models can be used to achieve a Class A fire system rating, for low slope applications, only when modules fire typed 1, 2, 3 with a metal frame, 19, 22, 25, 29 or 30.

**Electrical Bonding and Grounding Test Modules**

The list below is not exhaustive of compliant modules but shows those that have been evaluated and found to be electrically compatible with the GridFlex 10 system.

| Manufacture | Module Model / Series |
|---|---|
| Eco Solargy | Apollo 1000<br>Orion 1000 |
| EMMVEE | ExxxHCBT144-T<br>Titanium Clear |
| ET Solar | ET AC Module<br>ET-M772BH520-550WW/WB<br>ET-M772BHxxxTW/TB<br>ET Module<br>ET-N772TBHxxxGL |
| Fellow Energy | FE72-18X(ND) |
| First Solar | FS-6XXX(A)<br>FS-6XXX(A)-P<br>FS-6XXX(A)-P-I |
| Flextronics | FXS-xxxBB |
| Freedom Forever | FF-MP1-BBB-xxx<br>FF-MP-BBB-xxx |
| FreeVolt | PVGraf |
| GCL | GCL-M6 Series<br>GCL-P6 |
| Gstar Solar | GSD7S54T-xxxBT<br>GSP7G54M(H) |
| Hansol | TD-AN3<br>TD-AN4<br>UB-AN1<br>UD-AN1 |
| Hanwha SolarOne | HSL 60 |

| Manufacture | Module Model / Series |
|---|---|
| Heliene | 132HC M10 SL Monofacial Module<br>144HC M10 NTYP SL Bifacial Module<br>144HC M10 SL Bifacial<br>144HC M6<br>156HC M10 NTYP SL Bifacial Module<br>156HC M10 SL Bifacial<br>36M, 36P 60M, 60P, 72M & 72P Series |
| H-SAAE | HT60-156M(V)-C<br>HT60-156M-C<br>HT72-156(M/P)<br>HT72-156M(PD)-BF<br>HT72-156M(PDV)-BF<br>HT72-156P(V)-C<br>HT72-156P-C<br>HT72-166M<br>HT72-18X<br>HT72-18X(ND)-F |
| Hyperion Solar (Runergy) | HY-DH108N8B<br>HY-DH108P8(B)<br>HY-DH144P8<br>HY-DH156N8<br>HY-DH156P8 |
| Hyundai | HiA-SxxxHG<br>HiD-SxxxRG(BK)<br>HiN-SxxxXG(BK)<br>HiN-TxxxNF(BK)<br>HiN-TxxxNI<br>HiN-TxxxNJ<br>HiN-TxxxOJ<br>HiS-S400PI<br>HiS-SxxxGI |

| Manufacture | Module Model / Series |
|---|---|
| Hyundai (Cont.) | HiS-SxxxOJ<br>HiS-SxxxXG(BK)<br>HiS-SxxxYH(BK)<br>HiS-TxxxNJ<br>KG, MG, RW, TG, RI, RG, TI, KI, HI Series |
| Illuminate USA | IL5-72HBD-xxx M<br>IL8-66HGD-xxx M |
| Imperial Star | ISM7-SHDD108-400/M |
| INDEPWR Solar | iPWR-M10-60BX2S-xxxW<br>iPWR-M10-54BX2S-xxxW |
| ITEK | iT-SE Series |
| Japan Solar | JPS-60<br>JPS-72 Series |
| JA Solar | JAM54S30 xxx/MR<br>JAM54S31 xxx/MR<br>JAM6(K)-60/xxx<br>JAM66D45 LB<br>JAM72D10 xxx/MB<br>JAM72D30MB<br>JAM72D40 xxx/MB<br>JAM72S30 /MR<br>JAM78D10MB<br>JAP6(k)-72-xxx/4BB<br>JAP6 60-xxx<br>JAP72S##-xxx/**<br>JAP6(k)-60-xxx/4BB, JAP60S##-xxx/**<br>JAM6(k)-72-xxx/**, JAM72S##-xxx/**<br>JAM6(k)-60-xxx/**, JAM60S##-xxx/**<br>i. ##: 01, 02, 03, 09, 10<br>ii. **: SC, PR, BP, HiT, IB, MW, MR<br>** = Backsheet, ## Cell technology |

- Unless otherwise noted, all modules listed above include all wattages and specific models within that series. Variable wattages are represented as "xxx"
- Items in parenthesis are those that may or may not be present in a compatible module's model ID
- Slashes "/" between one or more items indicates that either of those items may be the one that is present in a module's model ID.
- The frame profile must not have any feature that might interfere with the bonding devices that are integrated into the racking system
- Use with a maximum over current protection device OCPD of 30A
- Please see GridFlex 10 information at Unirac.com to ensure the exact solar module selected is approved for use with GridFlex 10
- Listed models can be used to achieve a Class A fire system rating, for low slope applications, only when modules fire typed 1, 2, 3 with a metal frame, 19, 22, 25, 29 or 30.

**Electrical Bonding and Grounding Test Modules**

The list below is not exhaustive of compliant modules but shows those that have been evaluated and found to be electrically compatible with the GridFlex 10 system.

| Manufacture | Module Model / Series |
|---|---|
| Jinko | JKM<br>JKMS Series<br>JKMxxxM-6RL3-B<br>JKMxxxM-72HBL-V<br>JKMxxxM-72HL4-(T)V<br>JKMxxxM-72HL4-TV<br>JKMxxxM-72HLM-TV<br>JKMxxxM-72HL-V<br>JKMxxxM-7RL3-TV |
| Jinko(Cont.) | JKMxxxM-7RL3-V<br>JKMxxxN-54HL4-B<br>JKMxxxN-72HL4-BDV<br>JKMxxxN-72HL4-BDV *(30mm&35mm Frame Height)*<br>JKMxxxN-72HL4-BDX<br>JKMxxxN-72HL4-TV |
| Kyocera | KD-F<br>KU Series |
| LA Solar | BLA Model<br>LSxxxBF<br>LSxxxBL<br>LSxxxHC<br>LSxxxHC(166)<br>LSxxxHC (430-450 watt range) |

| Manufacture | Module Model / Series |
|---|---|
| LG Electronics | LGxxx(A1C/M1C/M1K/N1C/N1K/Q1C/Q1K/ QAC/QAK)-A6<br>LGxxx(E1C/E1K/N1C/N1K/N2T/N2W/S1C/S2W/Q1C/Q1K)-A5<br>LGxxx(M1C/N1C/Q1C/Q1K)-N5<br>LGxxx(N1C/N1K/N2T/N2W)-E6<br>LGxxx(N1C/N1K/N2W/Q1C/Q1K)-V5<br>LGxxx(N1C/N1K/N2W/S1C/S2W)-G4<br>LGxxx(N1K/N1W/N2T/N2W)-L5<br>LGxxxN1K-B6<br>LGxxxN2T-B5<br>LGxxxN2T-J5<br>LGxxxN2W-B3<br>LGxxxN3K-V6 |
| LONGi | LR4-60(HPB/HPH)<br>LR4-72(HPH)<br>LR4-72HBD xxxM<br>LR5-54HABB-xxx M (fire type 29 only)<br>LR5-54-HPB-xxx M<br>LR5-72HBD xxx M<br>LR6-60<br>LR6-60(BK/HPB/HPH/HV/PB/PE/PH)<br>LR6-72<br>LR6-72(BK/HV/PB/PE/PH)<br>LR7-72HGD-xxx M<br>LR8-54HGBB<br>LR8-66HGD-xxx M<br>RealBlack LR4-60HPB<br>RealBlack LR6-60HPB |

| Manufacture | Module Model / Series |
|---|---|
| Maxeon | SPR-MAX3-xxx-COM<br>SPR-MAX3-XXX-R<br>SPR-MAX3-XXX-BLK-R<br>SPR-MAX6-xxx<br>SPR-MAX6-xxx-BLK |
| Meyer Burger | Meyer Burger Black<br>Meyer Burger White<br>Meyer Burger Glass |
| Mission Solar Energy | MSE Mono<br>MSE Perc<br>MSExxx(SR8T/SR8K/SR9S/SX5T)<br>MSExxx(SX5K/SX6W)<br>MSExxxHT0B<br>MSExxxSX6Z<br>MSExxxSX9R<br>MSH10-xxxHN4G<br>MSH10-xxxHT4T<br>MSI10-xxxHN4G<br>MSI10-xxxHT4G<br>MSI10-xxxHT4T<br>MSN10xxxHT4T<br>MSExxxSX9Z |
| Mitrex | Mxxx-I3H<br>Mxxx-L3H |
| Mitsubishi | MJE<br>MLE Series |
| mSolar | 108BB HC Series (TXI10-xxx108BB)<br>144BB HC Series (TXS6-xxx144BB) |
| Neo Solar Power Co. | D6M Series |

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- Slashes "/" between one or more items indicates that either of those items may be the one that is present in a module's model ID.
- The frame profile must not have any feature that might interfere with the bonding devices that are integrated into the racking system
- Use with a maximum over current protection device OCPD of 30A
- Please see GridFlex 10 information at Unirac.com to ensure the exact solar module selected is approved for use with GridFlex 10
- Listed models can be used to achieve a Class A fire system rating, for low slope applications, only when modules fire typed 1, 2, 3 with a metal frame, 19, 22, 25, 29 or 30.

**Electrical Bonding and Grounding Test Modules**

The list below is not exhaustive of compliant modules but shows those that have been evaluated and found to be electrically compatible with the GridFlex 10 system.

| Manufacture | Module Model / Series |
|---|---|
| NE Solar | NESE xxx-60MH-M6<br>NESE xxx 66MHB-G12<br>NESE xxx-72MHB-M10<br>NESE xxx 72MHT-M10<br>NESE xxx 72THB-M10<br>NESE xxx 72MHB-M10 |
| Panasonic | EVPVxxx<br>EVPVxxx(H/K/PK/HK/HK2)<br>VBHNxxxKA<br>VBHNxxxKA03/04<br>VBHNxxxSA06/SA06B/SA11/SA11B<br>VBHNxxxSA15/SA15B/SA16/SA16B<br>VBHNxxxSA17/SA17G/SA17E/SA18/SA18E<br>VBHNxxxZA01/ZA02/ZA03/VBHNxxx-ZA04 |
| Peimar | SGxxxM (FB/BF)<br>SMxxxM |
| Philadelphia Solar | PS-M108(HCBF)-400W (30 & 35mm frames)<br>PS-M144(HCBF)-xxxW<br>PS-MNB144(HCBF)-xxxW<br>PS-MNB156(HCBF)-xxxW |
| Phono Solar | PSxxxM1-20/U<br>PSxxxM1-20UH<br>PSxxxM1-20/UH<br>PSxxxM1H-20/U<br>PSxxxM1H-20UH<br>PSxxxM1H-20/UH<br>PSxxxM-24/T<br>PSxxxM-24/TH |

| Manufacture | Module Model / Series |
|---|---|
| Phono Solar (Cont.) | PSxxxM4(H)-24/TH<br>PSxxxMH-24/T<br>PSxxxMH-24/TH |
| Prism Solar | P72 Series, P72X-xxx |
| Q Cells | Peak G5(SC) , G6(+)(SC)(AC), G7, G8(+),<br>Peak L-G5, L-G6, L-G7, L-G8(BFF)<br>Plus, Pro, Peak, G3, G4,<br>Plus, Pro, Peak L-G2, L-G4, L-G5<br>Q.PEAK DUO( BLK)-G6+<br>Q.PEAK DUO (BLK)-G7<br>Q.PEAK DUO (BLK) G8(+)<br>Q.PEAK DUO (BLK) ML-G10(a)(+)<br>Q.PEAK DUO (BLK) ML-G9(+)<br>Q.PEAK DUO BLK G10(+)<br>Q.PEAK DUO BLK G10+ /AC<br>Q.PEAK DUO BLK ML-G10+/AC<br>Q.PEAK DUO BLK ML-G10.C+<br>Q.PEAK DUO BLK ML-G10.C1+/AC<br>Q.PEAK DUO BLK ML-G10+ / t<br>Q.PEAK DUO BLK ML-G10+ / TS<br>Q.PEAK DUO-G10+<br>QPEAK DUO G10.C1+ AC<br>Q.PEAK DUO L-(G7/G7.1/G7.2/G7.3/G7.7)<br>Q.PEAK DUO L-(G8/G8.1/G8.2/G8.3)<br>Q.PEAK DUO L-G6.3 / BFG<br>Q.PEAK DUO L-G8.3 (BFF/BFG/BGT)<br>Q.PEAK DUO ML-G12S.3/BFG<br>Q.PEAK DUO ML-G12S.3 / BFG,<br>Q.PEAK DUO ML-G12S.7/BFG<br>Q.PEAK DUO ML-G12S.d / BFG<br>Q.PEAK DUO XL-(G10/G10.2/G10.3/G10.c/G10.d) |

| Manufacture | Module Model / Series |
|---|---|
| Q Cells (Cont.) | Q.PEAK DUO XL-(G11.2/G11.3)<br>Q.PEAK DUO XL-(G9/G9.2/G9.3)<br>Q.PEAK DUO XL-G10.3/BFG<br>Q.PEAK DUO XL-G10.d/BFG<br>Q.PEAK DUO XL-G11.3/BFG<br>Q.PEAK DUO XL-G11S<br>Q.PEAK DUO XL-G11S.3 / BFG<br>Q.PEAK DUO XL-G9.3/BFG<br>Q.TRON BLK M-G2(.H1)(.F1)(.C1)+/AC<br>Q.TRON BLK M-G2+ AC<br>Q.TRON BLK M-G2.H+<br>Q.TRON BLK M-G2.H1+/AC.<br>Q.TRON BLK M-G2+ SERIES<br>Q.TRON M-G2+ SERIES<br>Q.TRON XL-G2.3 / BFG<br><br>Q.PEAK DUO BLK ML-G10.XY+/AC (where “X” = any letter between A to W, where “Y” = any number between 1 to 9.) |
| REC | RECxxxAA (BLK/Pure/Pure-R/ Pure-RX/ Pure 2/ Pro M)<br>RECxxxAA Pure-RX<br>RECxxxAA PURE-RX-DC<br>RECxxxNP (N-PEAK)<br>RECxxxNP2 (Black)<br>RECxxxNP3 Black<br>RECxxxPE<br>RECxxxPE72<br>RECxxxTP<br>RECxxxTP2(M/BLK2)<br>RECxxxTP2S(M)72 |

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- Slashes "/" between one or more items indicates that either of those items may be the one that is present in a module's model ID.
- The frame profile must not have any feature that might interfere with the bonding devices that are integrated into the racking system
- Use with a maximum over current protection device OCPD of 30A
- Please see GridFlex 10 information at Unirac.com to ensure the exact solar module selected is approved for use with GridFlex 10
- Listed models can be used to achieve a Class A fire system rating, for low slope applications, only when modules fire typed 1, 2, 3 with a metal frame, 19, 22, 25, 29 or 30.

**Electrical Bonding and Grounding Test Modules**

The list below is not exhaustive of compliant modules but shows those that have been evaluated and found to be electrically compatible with the GridFlex 10 system.

| Manufacture | Module Model / Series |
|---|---|
| REC (Cont.) | RECxxxTP3M (Black)<br>RECxxxTP4 (Black)<br>RECxxxTP72 |
| Renesola | All 60-cell modules<br>RS6-xxxNBG-E3 |
| Risen | RSM Series, RSM110-8-xxxBMDG |
| SEG Solar | SEG-xxx-BMA-BG<br>SEG-xxx-BMA-HV<br>SEG-xxx-BMA-TB<br>SEG-xxx-BMB-BG<br>SEG-xxx-BTA-BG<br>SEG-xxx-BMB-HV<br>SEG-XXX-BMB-TB<br>SEG-xxx-BMD-BG<br>SEG-xxx-BMD-HV<br>SEG-xxx-BMD-TB<br>SEG-xxx-BTB-BG<br>SEG-xxx-BTD-BG |
| S-Energy | SL40-60MAI/MBI/MCI-xxxV<br>SL45-60BGI/BHI<br>SL45-60MBI-xxxZ<br>SN60 Series<br>SN72 |
| Seraphim | SEG-(6PA/6PB/6MA/6MA-HV/6MB/E01/E11)<br>SRP-(6QA/6QB)<br>SRP-320-375-BMB-HV<br>SRP-390-405-BMD-HV<br>SRP-390-450-BMA-HV |

| Manufacture | Module Model / Series |
|---|---|
| Seraphim (Cont.) | SRP-xxx-6MB-HV<br>SRP-xxx-BMC-HV<br>SRP-xxx-BMD-HV<br>SRP-xxx-BMZ-HV<br>SRP-xxx-BTA-BG<br>SRP-xxx-BTB-BG<br>SRP-xxx-BTC-BG |
| Sharp | NU-SA<br>NU-SC Series |
| Silfab | SILxxx(BG/BK/BL/HC/HC+/HL/HM/HN/ML/NL/NT/NX/NU/QD/QM)<br>SIL-xxx XL<br>SIL-xxx XM<br>SIL-xxx XM+<br>SLA-M, SLA-P, SLG-M, SLG-P & BC Series |
| Sirius | ELNSM54M-HC-BF Series<br>ELNSM54M-HC-N<br>ELNSM54M-HC Series |
| Solar4America | S4Axxx-108MH10BB<br>S4Axxx-108MH10xxx<br>S4Axxx-108TH10xxx<br>S4Axxx-144MH10xxx<br>S4Axxx-144TH10xxx<br>S4Axxx-144TH16xxx<br>S4Axxx-72MH5BB |
| SolarEver USA | SE-166*83-xxxM-120N<br>SE-182*91-xxxM-108N<br>SE-182*105-xxxM-96-BD |
| Solaria | PowerXT-xxxR-(AC/PD/BD)<br>PowerXT-xxxC-PD<br>PowerXT-xxxR-PM (AC)<br>PowerX-400R |

| Manufacture | Module Model / Series |
|---|---|
| Solar Space | SS8-54HDB-xxx-N<br>SS8-54HD-xxx-N<br>SS8-72HD-xxx-M<br>SS8-72HD-xxx-N<br>SS8-78HD-xxx-M<br>SS9-66HD-xxx-N<br>SSA-48HDB-xxx-N<br>SSA-48HD-xxx-N<br>SSA-54HDB-xxx-N<br>SSA-54HD-xxx-N<br>SSA-66HD-xxx-N |
| Solartech | STU HJT, STU PERC & Quantum PERC |
| SolarWorld | Sunmodule Protect<br>Sunmodule Plus/Pro |
| Sonali | SS-M-360 to 390 Series<br>SS-M-390 to 400 Series<br>SS-M-440 to 460 Series<br>SS-M-430 to 460 BiFacial Series |
| Sun Edison | F-Series<br>R-Series |
| Suniva | MV Series<br>Optimus Series (35mm) |
| Sunmac Solar | M754SH-BB Series |
| SunPower | AC, X-Series, E-Series & P-Series<br>SPR E20 435 COM (G4 Frame)<br>Axxx-BLK-G-AC<br>SPR-Mxxx-H-AC<br>SPR-Mxxx-BLK-H-AC |

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- Items in parenthesis are those that may or may not be present in a compatible module's model ID
- Slashes "/" between one or more items indicates that either of those items may be the one that is present in a module's model ID.
- The frame profile must not have any feature that might interfere with the bonding devices that are integrated into the racking system
- Use with a maximum over current protection device OCPD of 30A
- Please see GridFlex 10 information at Unirac.com to ensure the exact solar module selected is approved for use with GridFlex 10
- Listed models can be used to achieve a Class A fire system rating, for low slope applications, only when modules fire typed 1, 2, 3 with a metal frame, 19, 22, 25, 29 or 30.

**Electrical Bonding and Grounding Test Modules**

The list below is not exhaustive of compliant modules but shows those that have been evaluated and found to be electrically compatible with the GridFlex 10 system.

| Manufacture | Module Model / Series |
|---|---|
| Sunpro Power | SPDGxxx-120M12<br>SPDGxxx-N108M10<br>SPDGxxx-N144M10 |
| SunTech | STP<br>STPXXXS - B60/Wnhb |
| Talesun | Hipor M<br>Smart<br>TD6I72M<br>TD7G72M<br>TM3G54M<br>TM3G66M<br>TM7G54M<br>TM7G60M<br>TM7G72M<br>TP572<br>TP596<br>TP654<br>TP660<br>TP672<br>TP6F72M<br>TP6F72M(H)<br>TP7G54M(H) |
| Tesla | SC, SC B, SC B1, SC B2, TxxxS, TxxxH<br>Tesla Solar Panel<br>TSP-415/TSP-420 |
| Thornova | TS-BG54<br>TS-BG72<br>TS-BGT72(xxx) |

| Manufacture | Module Model / Series |
|---|---|
| Trina | DE06<br>DE09.05<br>DE09C.07<br>DEG15HC.20(II)<br>DEG15MC.20(II)<br>DEG15VC.20(II)<br>DE18M(II)<br>DEG18MC.20(II) DE19<br>DEG19C.20<br>PA05<br>PD05<br>DD05, DD06<br>PD14, PE14, DD14, DE14, DE15,<br>DE15V(II)<br>TSM-DE06X.05(II)<br>TSM-DE09.05<br>TSM-DE09.08<br>TSM-DE09C.07<br>TSM-DE15H(II)<br>TSM-DEG21C.20<br>TSM-NE09RC.05<br>TSM-NE09RH.05<br>TSM-NE19RC<br>TSM-NEG19RC.20<br>TSM-NEG21C.20 |
| TSMC | TS-150C2 CIGSw |
| Universal Solar | UNI4xx-144BMH-DG<br>UNI5xx-144BMH-DG<br>UNIxxx-108M-BB<br>UNIxxx-120M-BB<br>UNIxxx-120MH |
| Upsolar | UP-MxxxM(-B)<br>UP-MxxxP |

| Manufacture | Module Model / Series |
|---|---|
| URECO | D7Kxxx(H7A/H8A)<br>D7Mxxx(H7A/H8A)<br>F6MxxxE7G-BB<br>FAKxxx(C8G/E8G)<br>FAMxxxE7G-BB<br>FAMxxxE8G(-BB)<br>FBKxxxM8G<br>FBMxxxM7G-BB<br>FBMxxxMFG-BB |
| Vikram Solar | Eldora, Somera, Ultima<br>PREXOS VSMDHT.60.AAA.05<br>PREXOS VSMDHT.72.AAA.05<br>Paradea VSMDH.72.AAA.05 |
| Vina | VNS-72M1-5-xxxW-1.5<br>VNS-72M3-5-xxxW-1.5<br>VNS-144M1-5-xxxW-1.5<br>VNS-144M3-5-xxxW-1.5<br>VNS-120M3-5-xxxW-1.0 |
| VSUN | VSUN4xx-144BMH<br>VSUN4xx-144BMH-DG<br>VSUN5xx-144BMH-DG<br>VSUNxxx-108BMH<br>VSUNxxx-108M-BB<br>VSUNxxx-120BMH<br>VSUNxxx-120M-BB<br>VSUNxxx-132BMH<br>VSUNxxx-144BMH<br>VSUNxxx-144M-BB<br>VSUNxxx-144MH<br>VSUNxxx-144M-BW |

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**Electrical Bonding and Grounding Test Modules**

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| Manufacture | Module Model / Series |
|---|---|
| VSUN (Cont.) | VSUNxxx-60M-BB<br>VSUNxxx-72MH<br>VSUNxxxN-144BMH<br>VSUNxxxN-144BMH-DG<br>VSUNxxxN-144MH |
| Waaree | Arka Series WSMDi<br>Bi-55-xxx<br>BiN-08-xxx |
| Winaico | WSP Series<br>WST |
| Yingli | YGE & YLM Series |
| Yotta Energy | YSM-B450-1 |
| ZNShine Solar | ZXM6-72 Series<br>ZXM6-NH120 Series<br>ZXM6-NH144<br>ZXM6-NHLDD144<br>ZXM7-SH108 Series<br>ZXM7-SHDB144<br>ZXM7-SHLDD144<br>ZXM7-UHLDD144<br>ZXM8-GPLDD132 Series<br>ZXM8-TPLDD132<br>ZXM7-UHLDD108 |

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