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PG GENERAL NOTES:

If provided refer to construction drawings for project specific details. Construction drawings have precedence over these installation guidelines.

TECHNICAL SPECIFICATIONS:

Material Types: 16G ASTM A653 GR50 Steel
G235 Galvanization

Hardware: Stainless Steel

Bonding and Grounding: UL2703 Listed Continuous Bonding Path.

TOOLS REQUIRED OR RECOMMENDED FOR LAYOUT, ATTACHMENTS & INSTALLATION:

- Drill (**Do Not Use An Impact Driver**)
- 7/16" Socket
- Torque Wrench
- Tape Measure
- Chalk Reel
- Optional Spacers (See Diagram - Page Right)

GENERAL HARDWARE:

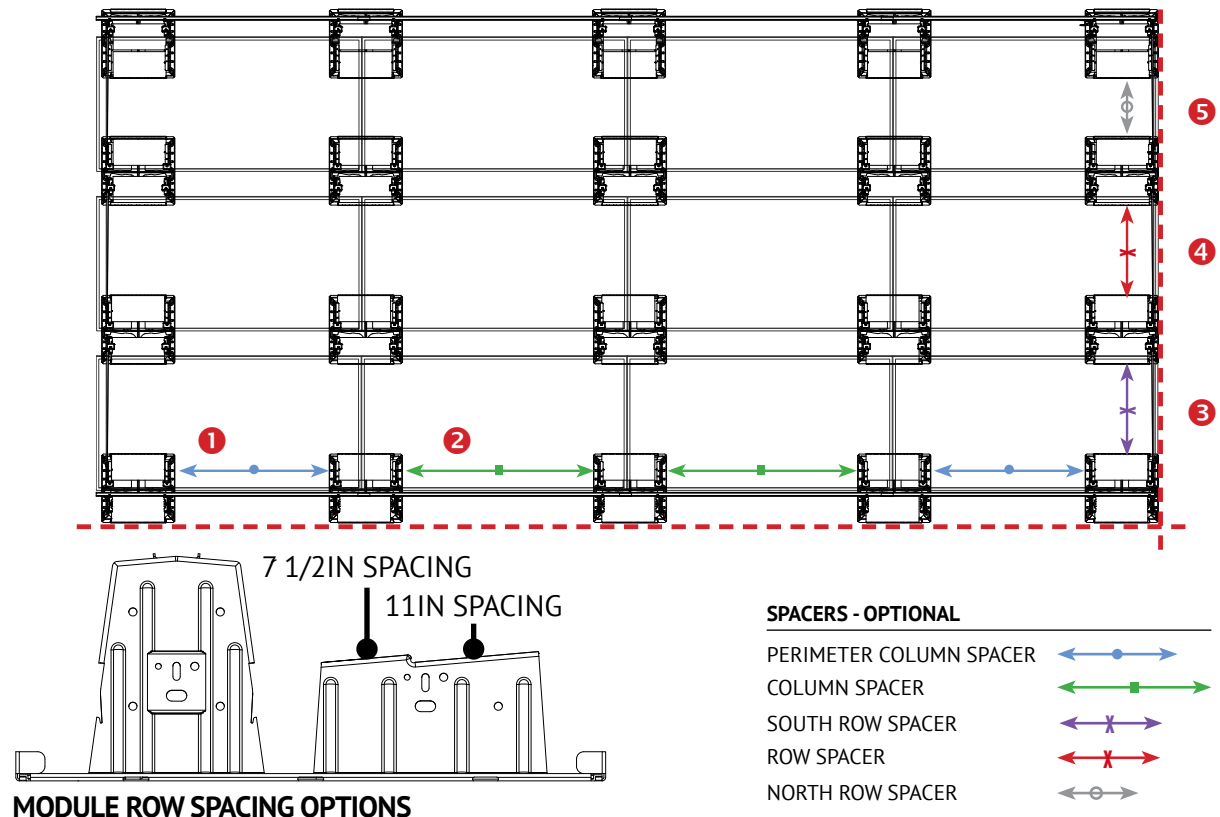
- ¼-20 X 2 ½" Hex Head Bolt - Module Clamps
- ¼-20 X 1" Hex Head Bolt - Wind Deflectors
- ¼-20 Stainless Steel U-Nuts
- ¼" Flat Washer 1 ½" O.D.

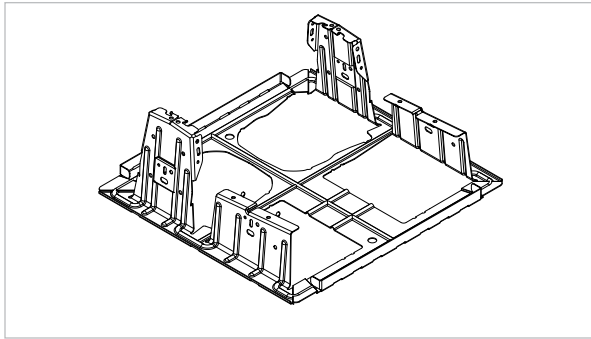
SAFETY:

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.

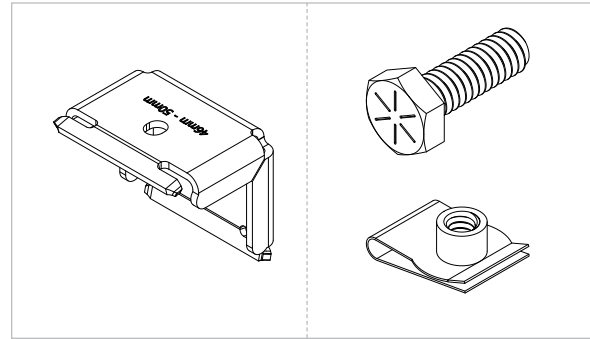
LAYOUT ASSISTANCE TOOL:

| Module Dimensions: | RM5 | Module location: | Spacing Equations (in Inches): | |
|---|-----|----------------------------|--------------------------------|------------------------------|
| | | | For 7.5" inter-row option: | For 11" inter-row option: |
| Module Length (ML) = | 1 | Perimeter Column Spacing = | $ML + (G/2) - 32.04"$ | |
| Module Width (MW) = | 2 | Interior Column Spacing = | $ML + G - 21.36"$ | |
| Preferred module gap? (1/4" - 1" is permissible) | 3 | South Row Spacing = | $(MW \times 0.996) - 12.79"$ | $(MW \times 0.996) - 12.79"$ |
| | 4 | Row Spacing = | $(MW \times 0.996) - 12.79"$ | $(MW \times 0.996) - 9.25"$ |
| East/West Module Gap (G) = | 5 | North Row Spacing = | $(MW \times 0.996) - 21.97"$ | $(MW \times 0.996) - 18.46"$ |

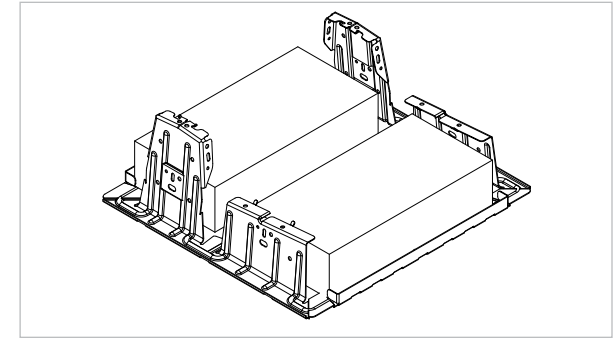




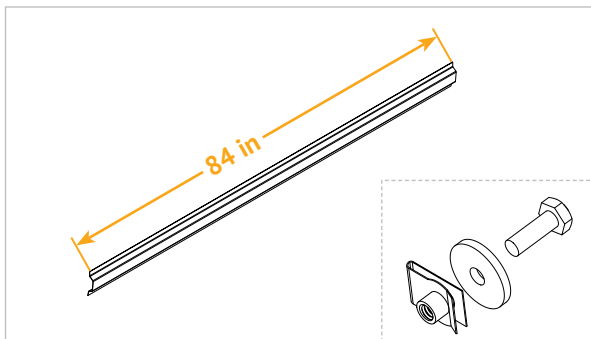
BALLAST BAY: The Ballast Bay is constructed of a high strength low alloy G235 Galvanized Steel. This system has a modular design that allows for easy installation around roof obstructions and accommodates roof undulations. The Ballast Bays are designed to nest within each other to optimize shipping logistics. **NOTE: Systems installed on PVC roofs require ballast bays with pre-installed Santoprene pads.**



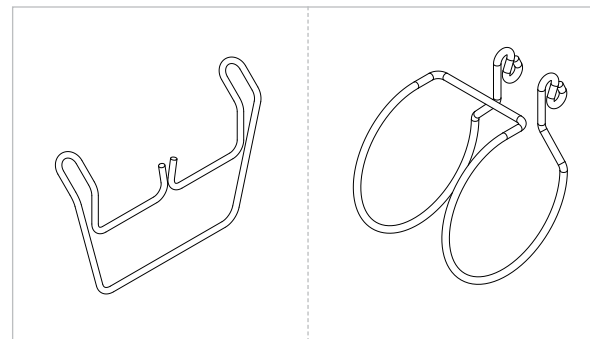
CLAMP & HARDWARE: The Module Clamp is made of Stainless Steel and can be used with module frame heights indicated on the clamp. The clamps are a portion of the UL2703 Listed system when installed according to this installation guide. A 1/4"-20 stainless steel bolt and u-nut are the associated hardware for installing clamps. **NOTE: U-Nuts come in packages separate from Clamp Kit.**



BALLAST BLOCK: The RM ballast bay can fit up to 2 standard 4"x8"x16" solid concrete cap blocks. Block weight can range from 26 - 38 lbs. and shall meet ASTM C1491 requirements for freeze thaw durability. Verify your block weights before using the Unirac U-Builder online design tool.

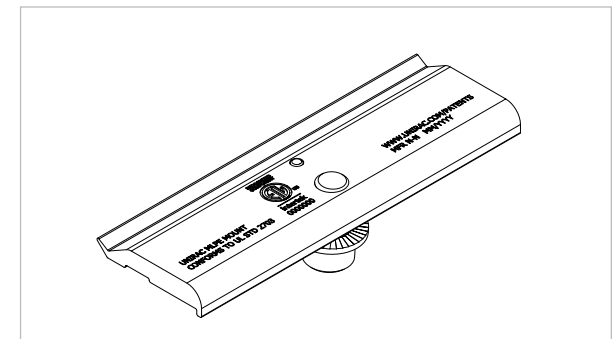


WIND DEFLECTOR: 18G G180 steel wind deflector aids in ballast reduction and provides fire mitigation. A 1/4" - 20 stainless steel bolt and fender washer (1.5" O.D) are associated hardware for wind deflectors. **NOTE: U-Nuts come in packages separate from deflector hardware.**



OPTIONAL WIRE MANAGEMENT: Custom Unirac wire clip along with mounting options for various off the shelf wire management clips.

NOTE: All conduit and wire ways should be grounded & bonded per the (NEC) National Electric Code.



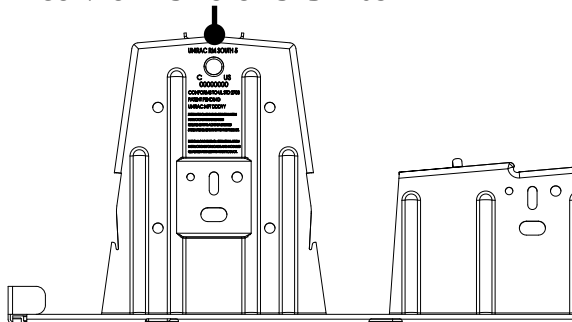
OPTIONAL MICROINVERTER MOUNTING: Microinverter / Power optimizer bracket, see page B for additional instructions.

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. RM ROOFMOUNT has been classified to the system level fire portion of UL1703. It has achieved Class A performance for low sloped roofs when used in conjunction with type 1 and type 2 module constructions. Please see the specific conditions below for mounting details 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).

Refer to page right for proper installation of wind deflectors for required fire mitigation.

NOTE: Type I or Type II information is generally located on back of modules or through manufacturers documentation. Some building codes and fire codes require minimum clearances around such installations, and the installer should check local building code requirements for compliance.

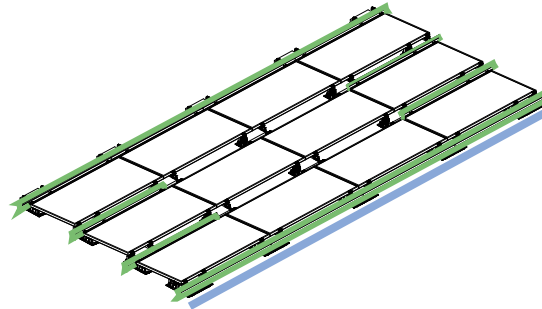
Unirac RM
CONFORMS TO UL STD2703



| Module Type | System level Fire Rating | Mitigation |
|-------------|--------------------------|--|
| Type 1 | Class A | Prescriptive. See notes & Illustration Below |
| Type 2 | Class A | Prescriptive. See notes & Illustration Below |

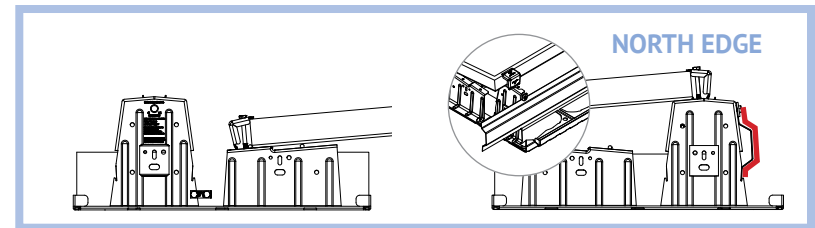
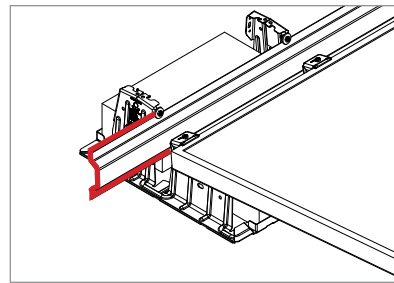
TYPE 1 / TYPE 2 CLASS A FIRE RATING MOUNTING ORIENTATION

Unirac RM has achieved Class A system level fire performance for type 1 and type 2 module constructions. In order to maintain the fire rating for type 1 modules wind deflectors must be installed on the north edge of the array. Type 2 modules require wind deflectors to be installed on the north and south edges of the array and at all perimeter modules. **NOTE: See page 7 for installation of wind deflectors.**



Please use the U-builder tool to optimize the usage of wind deflectors for fire mitigation.

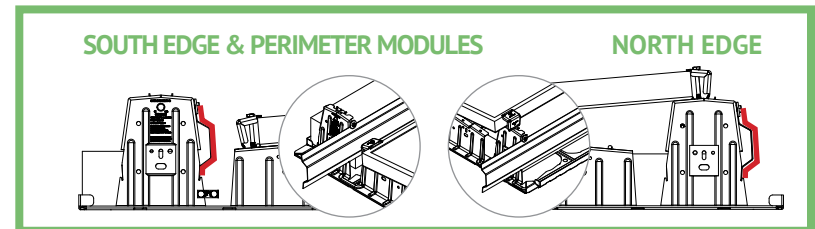
- Type I Requires fire mitigation on North Edge when there are no additional wind deflectors throughout the array
- Type II Requires fire mitigation on all perimeter modules within array.



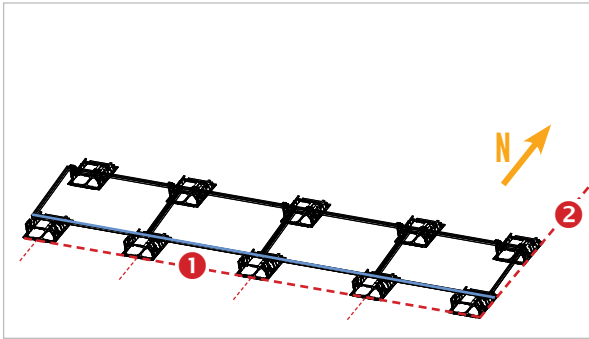
TYPE I: Install wind deflectors on North edge of array.

EAST/WEST EDGES: Install wind deflectors in each row with 6" overhang on east and west edges. This applies for any deflector installed on east and west edges throughout the array.

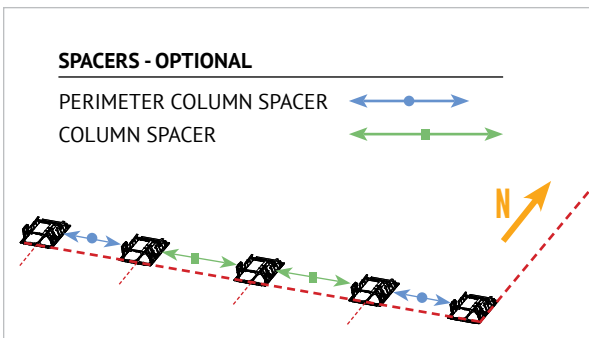
TORQUE VALUE: 10FT-LBS
All Wind Deflector Hardware
(1/4-20 x 1inch bolt, 1/4-20 u-nut & 1/4inch flat washer 1 1/2in O.D.)



TYPE II: Install wind deflectors on all perimeter modules within array
NOTE: Wind deflector should be secured to supplemental bay by two hardware kits.

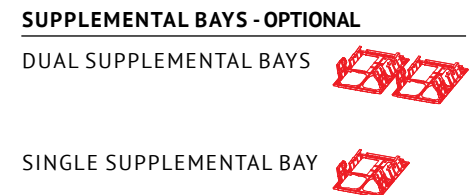
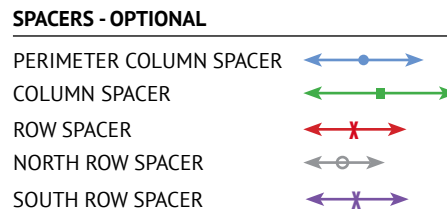
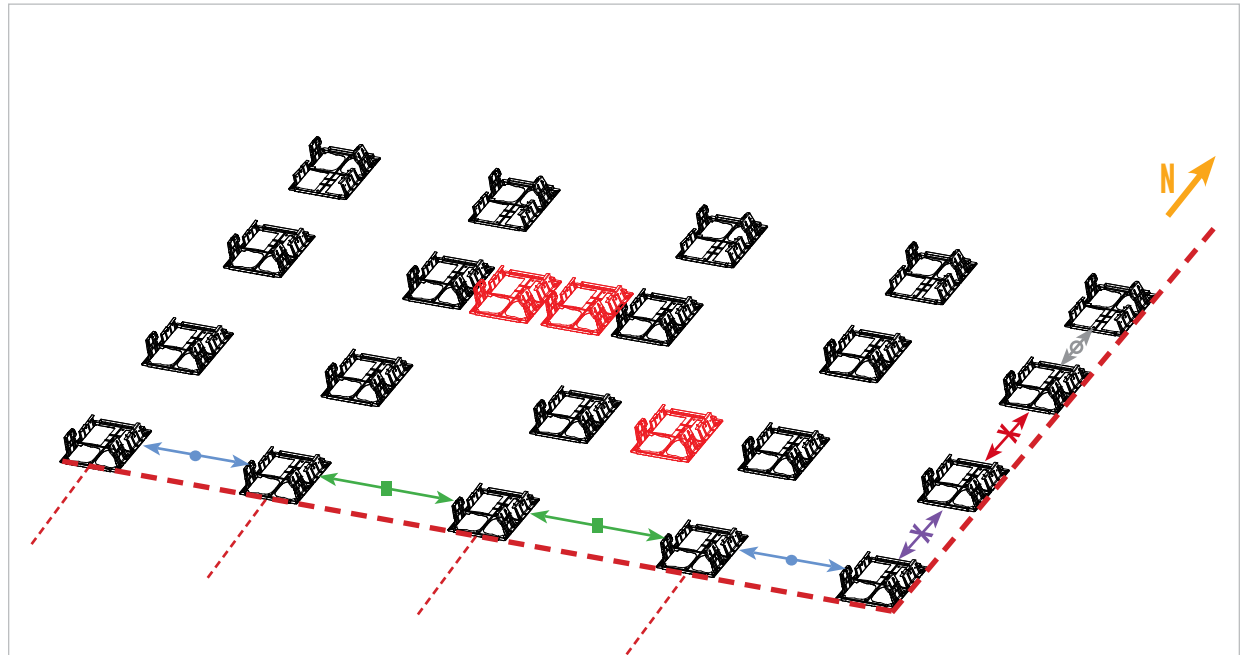


SNAP SOUTH PERIMETER CHALK LINE, THEN EAST OR WEST PERIMETER CHALK LINE. As best practice, on south edge of array mark lines to locate the center of each bay.



PLACE SOUTH PERIMETER BAYS FIRST. If slip sheets are required, place per manufacturers recommendations.

NOTE: Custom spacers can be made to aid in the placement of bays on the roof. See page 1.

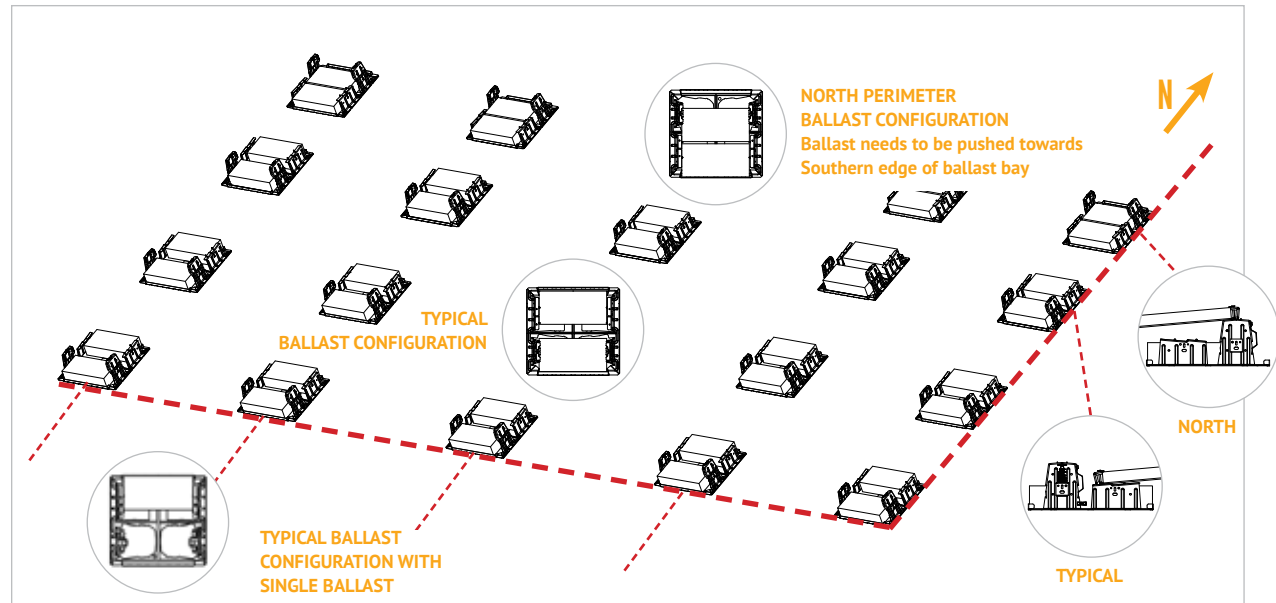


PLACE ALL BAYS.

NOTE: If mechanical attachment is required, place prior to installation of modules.

NOTE: If supplemental bay is required, install after the primary bays are installed. Supplemental bay needs to be centered in between primary bays.

PLACE ALL BALLAST: A maximum of two (2) ballast blocks can be placed in each ballast bay, typically pushed into the retention feature on the north or south edge. The North perimeter requires ballast blocks to be pushed towards the southern edge of the ballast bay to accommodate wind deflectors. Site specific ballast calculations should be created for each individual project in accordance with the U-Builder design software. This system has been rated for the mechanical load provisions of UL2703. In addition, it has been designed and tested to comply with the more rigorous requirements of SEAOC PV1, PV2 and ASCE 7.



SOUTHERN EDGE MODULE PLACEMENT: Each bay has two spacing options, select the appropriate tab according to layout requirements.

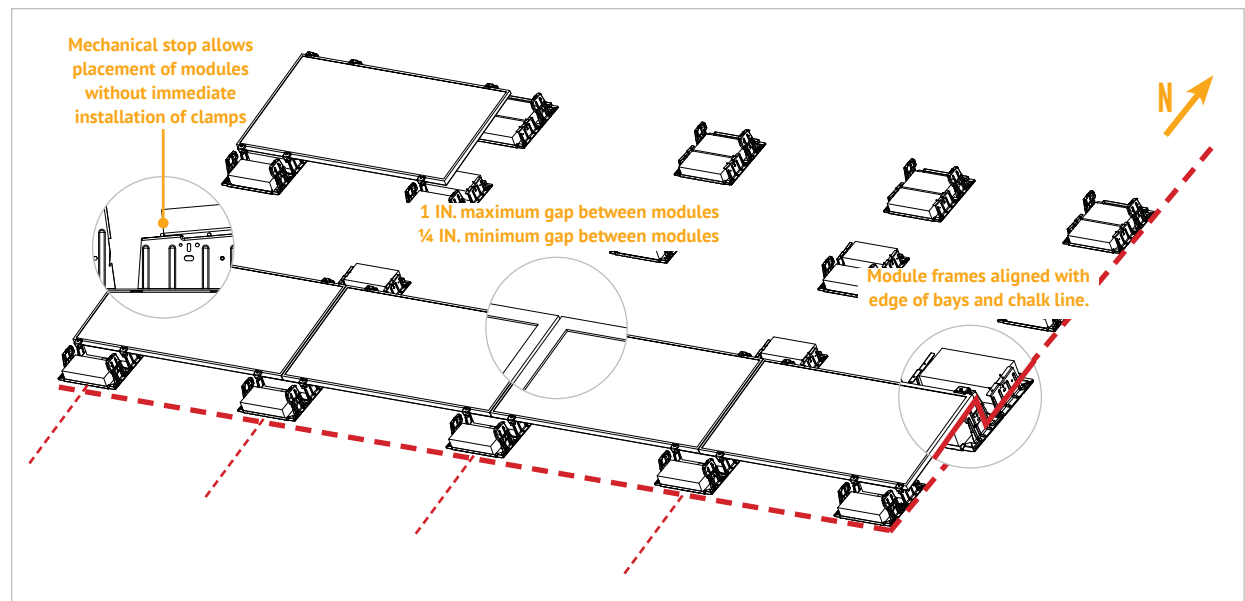
Place southern row of modules on bays. You may adjust second row of bays. Do not adjust southern most row of bays

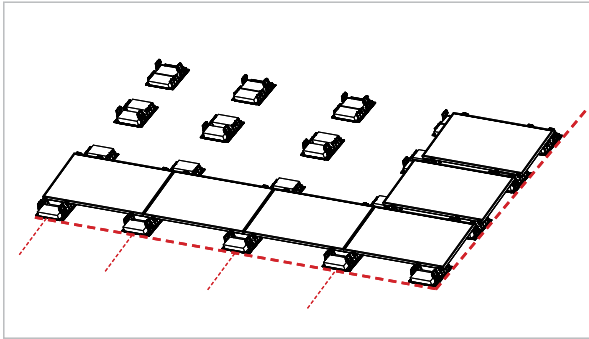
1 IN. Maximum gap between modules

¼ IN. Minimum gap between modules

NOTE: Modules may be placed on bays without immediate installation of clamps.

NOTE: Modules shall be mounted in landscape orientation only.



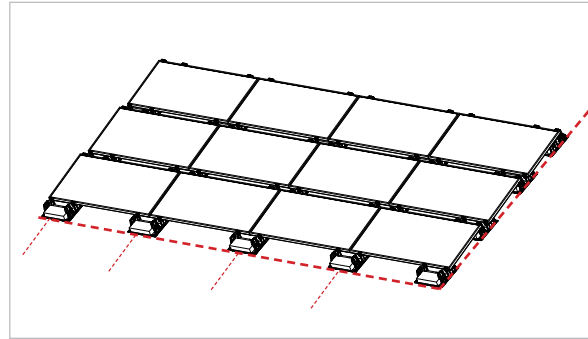


EAST OR WEST EDGE MODULE PLACEMENT

NOTE: Modules may be placed on bays without immediate installation of clamps.

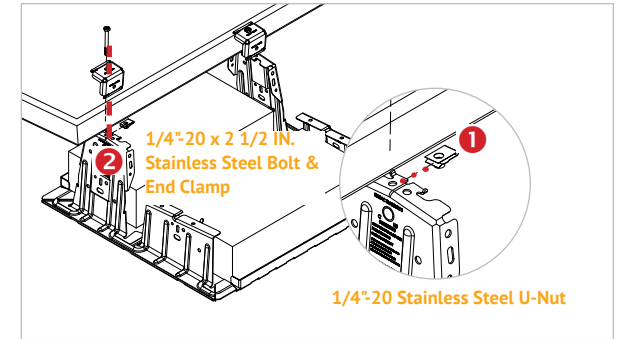
NOTE: Modules shall be mounted in landscape orientation only.

NOTE: Install wind deflector at the time of module installation. See Page 7 for installation guide.



COMPLETE MODULE PLACEMENT

NOTE: Wiring, wire management, and electrical QC should be done as each row is built, especially in case of 7.5" row spacing to ensure adequate room for installation.

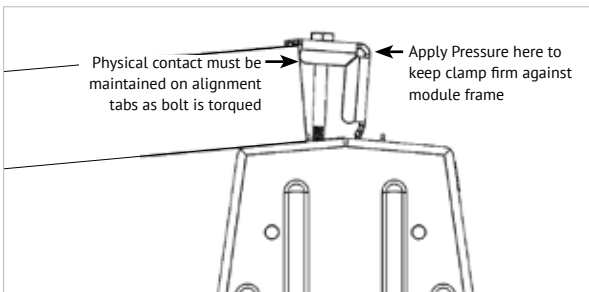


INSTALL U-NUT & INSTALL CLAMPS

NOTE: U-NUT - Single Use Only - Do not re-torque once fully seated

NOTE: CLAMP AND BOLT - Single Use Only - Do not re-torque once fully seated

TORQUE VALUE: 7FT-LBS to achieve UL2703 required clamp load



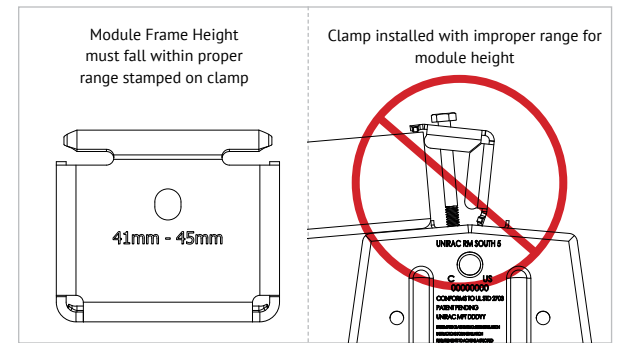
PROPER CLAMP INSTALLATION:

- Clamp is stamped for module frame height on each leg
- Clamp should be firmly held against module frame while being torqued



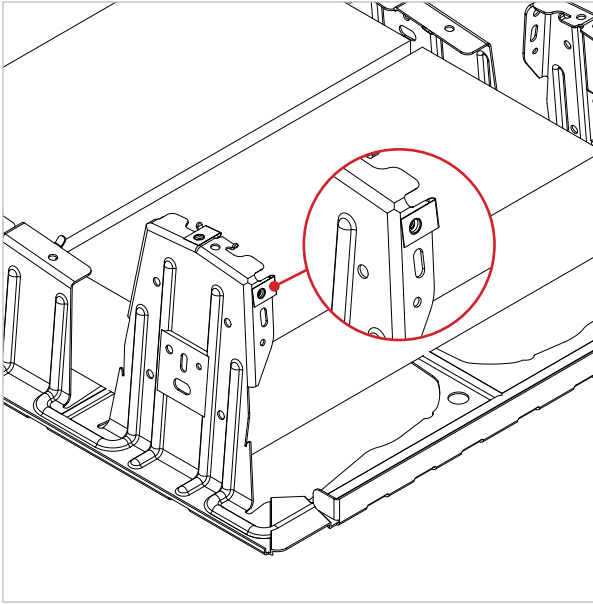
PROBLEM – CLAMP NOT SEATED AGAINST MODULE DURING TORQUING

- Clamp needs to be held securely against the module frame during torquing for proper installation

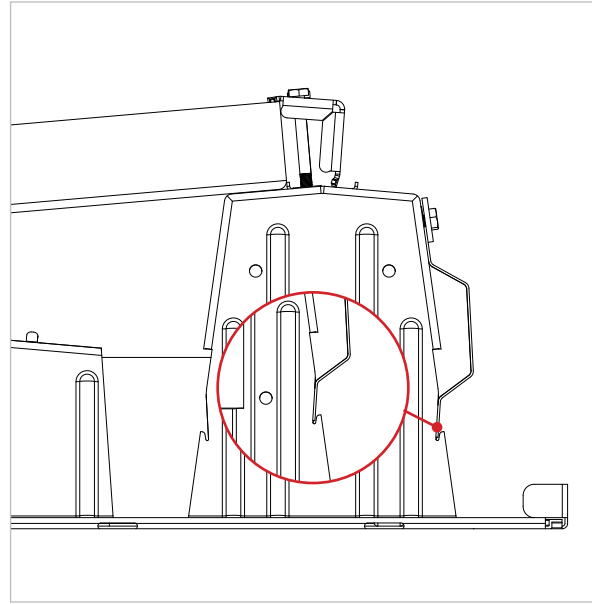


PROBLEM – NOT USING PROPER SIZE OF CLAMP FOR MODULE FRAME HEIGHT

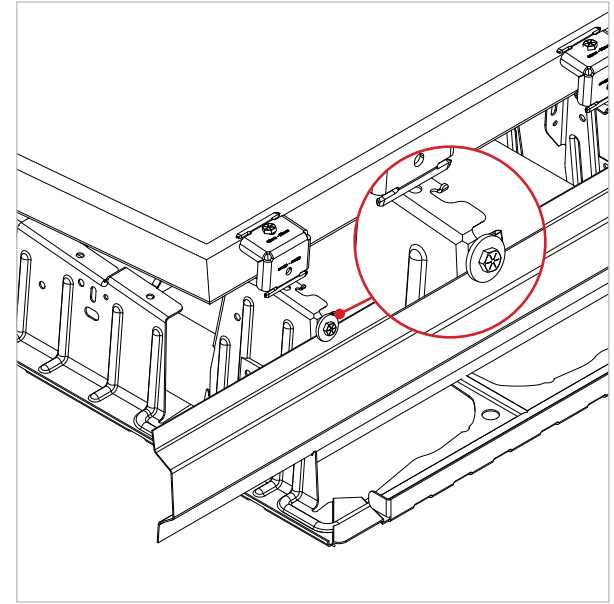
- Double check the stamping on clamp to use the correct leg of clamp for module frame height
- The module height shall fall within the range shown on the top of the clamp
- Excessive angle on clamp will inhibit required clamp load on module



STEP 1 - U-NUTS: Install u-nuts on side flange



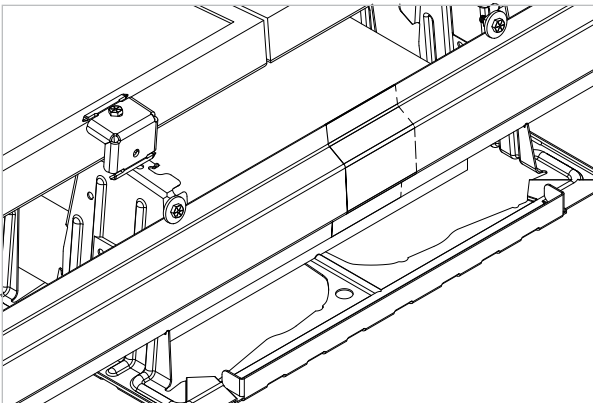
STEP - 2 WIND DEFLECTOR: Position wind deflector in the slots provided in the bay



STEP 3 - HARDWARE: Secure wind deflector with 1 1/2" O.D. flat washer and 1/4-20 x 1" Bolt, as shown above

TORQUE VALUE: 10FT-LBS

NOTE: If the system requires wind deflectors do not leave arrays without installing wind deflectors. Wind deflectors are critical aerodynamics components in the case of any wind event.



INSTALL BALLAST BAY WIND DEFLECTORS

NOTE: Wind deflectors overlap at splice

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.

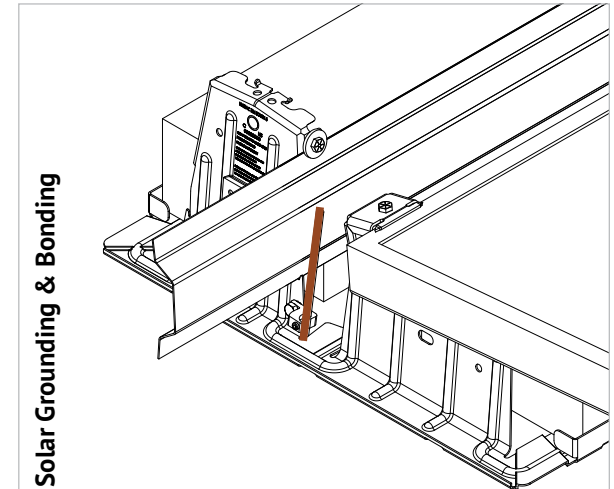
Unirac ROOFMOUNT is intended to be used with PV modules that have a system voltage less than or equal to that allowable by the National Electric Code (NEC). It is the installer's responsibility to check adherence to local codes.

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 | 6.5 ft-lbs (75 in-lbs) |
| IlSCO Lug GBL-4 | #10-32 | 2.9 ft-lbs (35 in-lbs) |
| Wiley 6.7 | 1/4"-20 | 10 ft-lbs (120 in-lbs) |

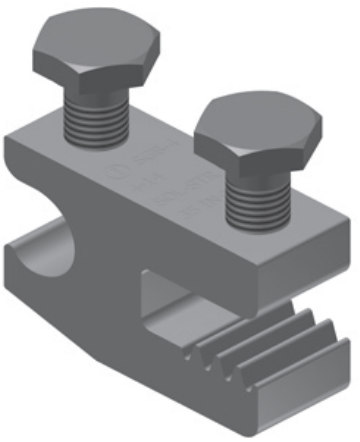
NOTE: In order to prevent corrosion induced by dissimilar metals, it is important to verify that the bare copper wire does not come into contact with aluminum or galvanized steel. These materials must be kept separate.

Although conformance with UL2703 was demonstrated without the use of oxide inhibitor material, it is recommended by IlSCO to provide an optimized bonding solution for their lay-in lug.




All Lugs Solar Grounding & Bonding

GROUNDING NOTE:
Can be installed on any location with a flat surface on the bay in order to ground the system.



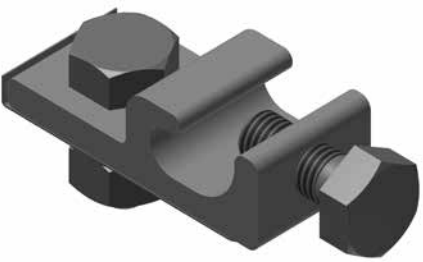
IlSCO SGB-4 Solar Grounding & Bonding

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, 8AWG: 25 in-lbs



Wiley WEEB-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



MECHANICAL LOAD TEST QUALIFICATION

The Unirac RM system has been tested to the mechanical load provisions of UL2703 and covers the following basic parameter(s):

- Tested loads: 25 psf up, 54 psf down
- Certification Loads: 16.7 psf up, 36 psf down, 5 psf down-slope

TESTED MODULE

| Module Manufacturer | Model / Series |
|---------------------|----------------|
| Hyundai | HIS-S325TI |

ELECTRICAL BONDING & GROUNDING TEST MODULES: This racking system may be used to ground and/or mount a PV module complying with UL 1703 only when the specific module has been evaluated for grounding and/or mounting in compliance with the included instructions.

VERIFIED COMPATIBLE MODULES:

| Manufacture | Module Model / Series |
|---------------------|---|
| Aleo | P18 & P19 S18, S19, S59, & S79 |
| Astronergy | CHSM6610(P/M)/HV CHSM6612(P/M)/HV CHSM72(P/M)-HC |
| AU Optronics | PM Series |
| Auxin | AXN6M610T, AXN6P610T, AXN6M612T & AXN6P612T |
| Axitec | AC-xxxM/60S, AC-xxxP/60S, AC-xxxP/60V, AC-xxxM/60V, AC-xxxM/72S, AC-xxxP/72/S, AC-xxxP/72V, AC-xxxM/72V, AC-xxxP/156-60S, AC-xxxMH/144S, AC-xxxMH/144V, AC-xxxMH/120S, AC-xxxMH/120V |
| Boviet | BVM6610 & BVM6612 |
| BYD | P6K Series, MHK |
| Canadian Solar | CS5A-M, CS6P-M, CS6X-P, CS6U-P, CS6U-M, CS6K-MS, CS6K-M, CS6V-M, CS6K-P, CS6P-P, CS3L-P, CS3U-P, CS3U-MB, CS3U-MS, CS3U-PB, CS3K-P, CS3K-MS, CS3K-MB, CS3K- PB, CS3W-P & CS1(K/H/U)-MS, CS3U-PB-AG, CS3(U/K)-MB-AG, CS3W-P-PB-AG, ELPS CS6(P/A)-MM |
| Centrosolar America | C-Series & E-Series |
| CertainTeed | CTxxxMxx-01, CTxxxPxx-01, CTxxxMxx-02 & CTxxxMxx-03, CTxxxMxx-04 |

| Manufacture | Module Model / Series |
|--------------------------|---|
| ET Solar | ETAC & ET Modules |
| Eco Solargy | Orion 1000 & Apollo 1000 |
| Flextronics | FXS |
| GCL | GCL-P6 & GCL-M6 Series |
| Hansol | TD-AN3, TD-AN4, UD-AN1 & UB-AN1 |
| Hanwha SolarOne | HSL 60 & HSL 72 |
| Heliene | 36M, 60M, 60P, 72M & 72P Series |
| HT-Solar | HT72-156(M/P), HT72-156P-C, HT72-156P(V)-C HT60-156M-C, HT60-156M(V)-C |
| Hyundai Heavy Industries | MG, TG, RG, & KG Series, MI, RI, KI, HI & TI Series |
| ITEK | iT, iT-HE & iT-SE Series |
| Japan Solar | JPS-60 & JPS-72 Series |
| JA Solar | JAP6-60, JAM6-60, JAP6-72, JAM6-72 |
| JA Solar | JAP6(k)-60-xxx/4BB, JAP60SY-xxx/ZZ, JAM6(k)-60-xxx/ZZ, JAM60SY-xxx/ZZ |
| JA Solar | JAP6(k)-72-xxx/4BB, JAP72SY-xxx/ZZ, JAM6(k)-72-xxx/ZZ, JAM72SY-xxx/ZZ Note: i. YY: 01, 02, 03, 09, 10 ii. ZZ: SC, PR, BP, HiT, IB, MW YY = Backsheet, ZZ Cell technology |

| Manufacture | Module Model / Series |
|----------------------|--|
| Jinko | JKMxxxP-60, JKMxxxPP-60, JKMxxx PP-60B, JKM xxx M-60, JKM xxx M-60B, JK07B (JKMSxxxPP-60), JKMxxx PP-60(Plus), JKMxxxM-60HL, JKMxxxM-60L, JKMxxxM-60BL, JKMxxxM-60LV, JKMxxxM-60-V, JKMxxxPP-60B-J4, JKMSxxxM-60, JKMSxxxPP-60B-J4, JKMSxxxPP-60, JKMSxxxP-60, JKMxxxP-72, JKMxxxPP-72, JKMSxxx-72, JKMSxxxP-72, JK07A (JKMSxxxPP-60 & JKMSxxxPP-72), JKMxxxM-72, JKMxxxM-72-V, JK- MxxxM-72L-V, JKMxxxM-72HL-V, JKMxxx-72L-V, JKMxxxPP-72-V, JKMxxxPP-72(Plus), JKMxxxPP-72B, JKMxxxP-72B, |
| Kyocera | KD-F Series |
| LG Electronics | N1K-A5, N1C-A5, Q1C(Q1K)-A5, N2T-A5, N2W-A5, S2W-A5, S1C-A5, E1C-A5, E1K-A5, N1K-V5 N1C-V5, Q1C-V5, Q1K-V5, N2W-V5, N2T-J5 |
| LONGi | LR6-60 & LR6-72 Series LR4-60 & LR4-72 Series |
| Mission Solar Energy | MSE MONO & MSE PERC |

Please see the RM5 UL2703 Test Report at Unirac.com to ensure the exact solar module selected is approved for use with RM5

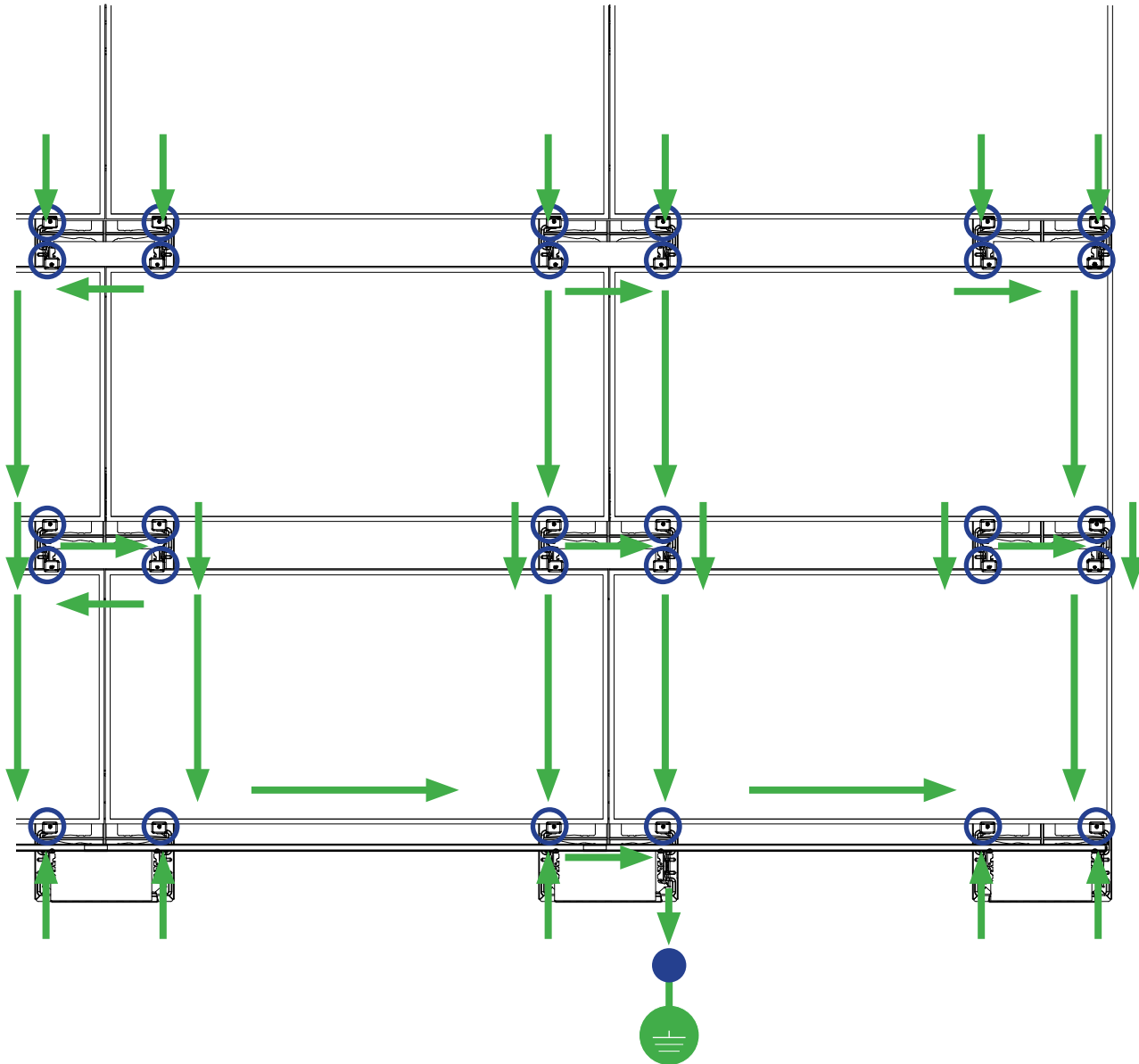
ELECTRICAL BONDING & GROUNDING TEST MODULES: This racking system may be used to ground and/or mount a PV module complying with UL 1703 only when the specific module has been evaluated for grounding and/or mounting in compliance with the included instructions.





VERIFIED COMPATIBLE MODULES (CONTINUED):

| Manufacture | Module Model / Series |
|---------------------|---|
| Mitsubishi | MJE & MLE Series |
| Neo Solar Power Co. | D6M Series |
| Phono Solar Tech. | Standard Modules |
| Panasonic | VBHNxxxSA15 & SA16, VBHNxxxKA01 & KA02 VBHNxxxSA17(G/E) & SA18(E), VBHNxxxKA03 & KA04 |
| Peimar | SGxxxM (FB/BF) |
| Q.Cells | Q.PLUS/PEAK/PRO - L G4.x, B.LINE PLUS/PRO - L G4.x Q.PLUS L-G4.2/TAA, Q.PEAK DUO L-G-5.2 & Q.PEAK DUO L-G5.3 |
| Q.Cells | Q.PRO L-G2 |
| Q.Cells | Q.PRO BFR G4x Q.PEAK G4.1/MAX, Q.PRO/Q.PLUS G4, Q.PEAK-G4.1/TAA, Q.PEAK BLK G4.1/TAA, Q.PLUS BFR G4.1 Q.PLUS BFR G4.1/TAA, Q.PLUS BFR G4.1/MAX, B.LINE (PLUS/PRO) BFR G4.1, Q.PRO EC-G4.4 Q.PEAK BLK G4.1 & Q.PEAK G4.1 |
| Q.Cells | Q.PEAK-G3 & G3.1, Q.PEAK BLK G3 & G3.1, Q.PLUS BFR G3.1, Q.PLUS/PRO G3 |

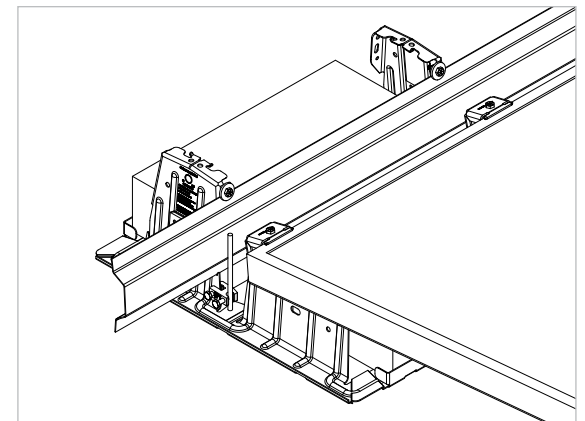
| Manufacture | Module Model / Series |
|-------------|--|
| Q.Cells | Q.PEAK DUO G5, DUO BLK G5 Q.PEAK DUO L-G5, L-G5.(1/2/3) Q.PEAK DUO L-G6, 6.2, 6.3 Q.PEAK DUO G7, G7.2, L-G7.(1/2/3) Q.PEAK DUO G8 (BLK)(+), Q.PEAK DUO L-G8.(1/2/3) B.LINE PEAK DUO G7, G7.2 B.LINE PEAK DUO L-G7, L-G7.(1/2/3) B.LINE PEAK DUO L-G5.(1/2/3) |
| Q.Cells | Q.PEAK DUO XL G9.2 & G9.3 Q.PEAK DUO ML G9(+) |
| REC | PEAK & ECO PeakEnergy 72, TwinPeak |
| REC | TwinPeak (2)(Black)(2), N-Peak TwinPeak2S(B)(XV) TP3M (Black) REC AA (Black) |
| Renesola | 60 Cell Modules & Vitrus2 |
| Risen | RSM60-6, RSM72-6, RSM144-6 |
| Seraphim | SEG-6 & SRP-6 Series |
| Sharp | ND-24CQCJ & ND-25CQCS, ND-Q235F4 & ND-F4Q300, NU-SA, NU-SC |
| Silfab | SLA-M/P & SLG-M/P SIL ML/NL/BL/NT |
| Solaria | PowerXTxxxR-PD/BD/AC PowerXTxxxC |
| SolarTech | STU HIT & STU PERC |

| Manufacture | Module Model / Series |
|------------------------|---|
| SolarWorld | Sunmodule Protect/Plus |
| Suniva | Optimus Series, MV Series |
| Suntech | STP "XXX" |
| Sun Edison/Flextronics | F-Series / FLEX FXS, R-Series / FLEX FXS |
| S-Energy | SN72 & SN60 Series |
| SunPower | X-Series 72 & E-Series 72, X-Series 96 & E-Series 96, P-Series, Sig Black |
| Talesun | TP572, TP596, TP654, TP660, TP672, Hipor M, Smart |
| Trina | PA05, PD05, DD05 PD14, PE14, DD14, DE14 |
| Upsolar | UP-Mxxx |
| URE | D7K_H8A, D7M_H7A, D7M_H8A |
| Vikram | Eldorado, Solivo & Somera |
| Winaico | WST & WSP Series |
| Yingli | YGE 60 Cell YGE 60 Cell Series 2 YLM 60 YLM 72 YLM-VG |



-  Fault Current Ground Path
-  Ground Lug
-  Grounding Clip & Bolt
-  Min. 10 AWG Copper Wire

Module Frame
 Module Bay w/ Grounding Clips



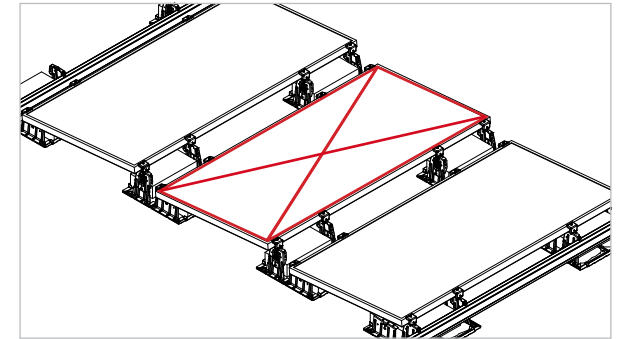
TEMPORARY GROUNDING & BONDING PROCEDURE: Periodic inspections should be conducted on the PV array to ensure there are not loose components, loose fasteners or corrosion. If any of the above items are found, the affected components are to be immediately replaced.

NOTE: If a module must be removed or replaced, a temporary bonding jumper must be used to ensure safety of the personnel and PV system.

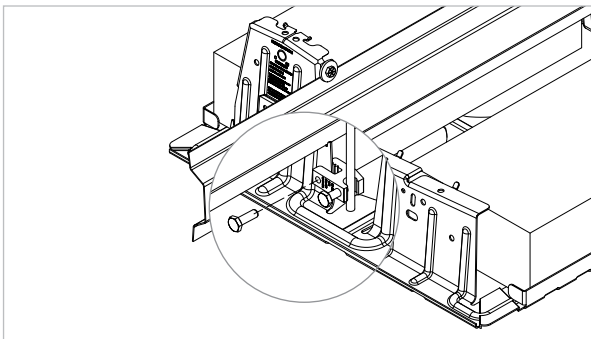
NOTE: Removing a PV module from a system is not considered to be routine maintenance. This type of activity should only be performed by trained and qualified installers.

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 materials must be kept separate.

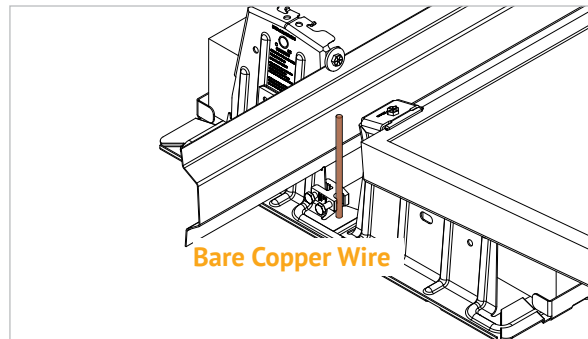
APPROVED LUGS and Terminal Torque see Page 8



BONDING JUMPER REQUIRED: One example of a module removal that will require the use of a bonding jumper

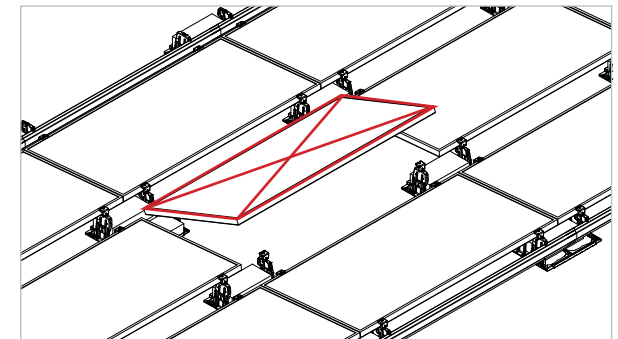


ATTACH LUGS: Use approved lug(s) to install on adjacent bays where the module is being removed.



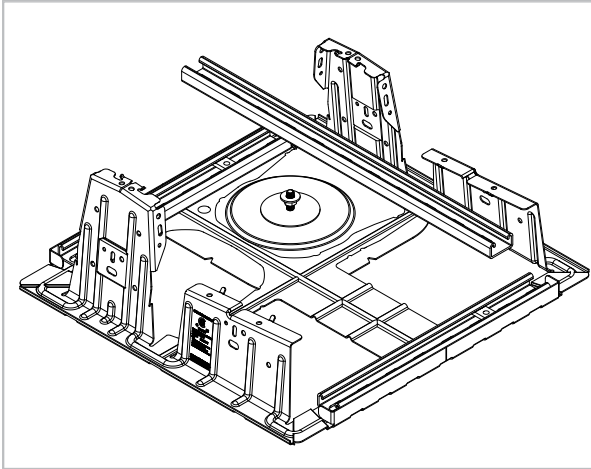
INSERT COPPER WIRE: Insert bare copper wire into each lug, providing a bonding jumper across the missing module location.

Remove module & reverse the operation after maintenance is complete

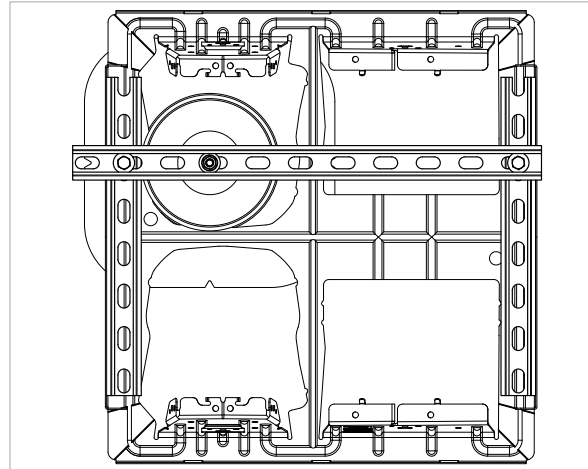


BONDING JUMPER NOT REQUIRED, due to integrated bonding/grounding path throughout module frames/bays around this location.

NOTE: CLAMP AND BOLT - Single Use Only - Use new clamps after any module replacements or system maintenance.

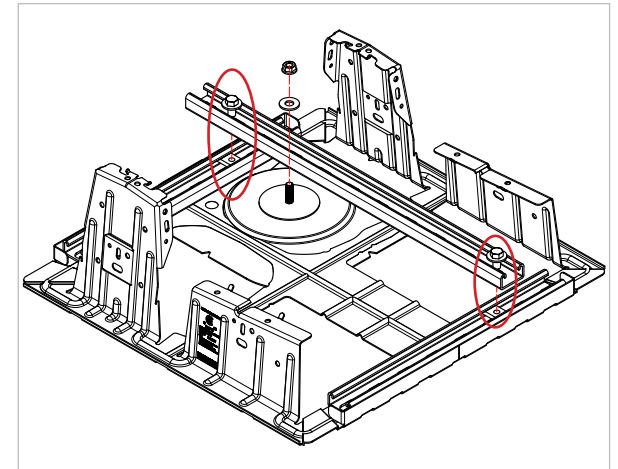


STEP 1 - PLACE NUT AND WASHER: Include the nut and washer on the anchor stud prior to placing the stud through the strut.



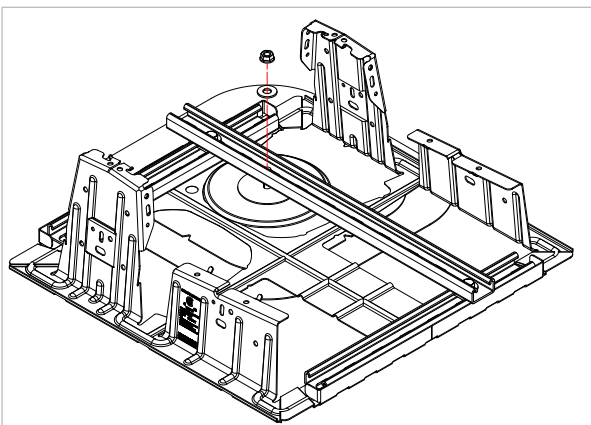
STEP 2 - POSITION ROOF ATTACHMENT: Position Roof Attachment under bay requiring attachment and install according to manufacturer installation instructions.

NOTE: Position attachment so that it is close to center of the bay as possible.



STEP 3 - PLACE UNISTRUT: Position strut sections on bay as pictured above. Align the cross-strut with the anchor's stud. Connect side strut sections to cross strut using a strutnut, bolt, and washer as pictured.

NOTE: Metal base of attachment where stud is located cannot exceed a height of 1/4".



STEP 4 - SECURE UNISTRUT TO ROOF ATTACHMENT: Place 3/8" washer and 3/8-16 serrated flange nut on anchor stud, serrations facing down and tighten to 30 ft-lb.

TORQUE VALUE: 30FT-LBS



PRE-INSTALL MICROINVERTERS: Install MLPE in a location on the module that will not interfere with ballast bays or grounding lugs. To use trunk cable most efficiently, install MLPE components in the same locations on all modules in the same row.

TORQUE VALUE: 20FT-LBS

