

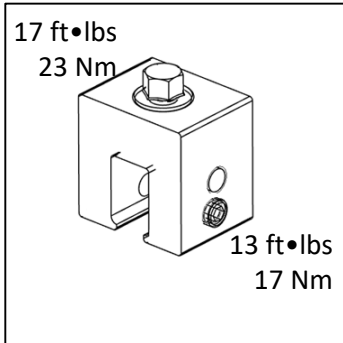
SKYRACK Standing Seam Field Guide



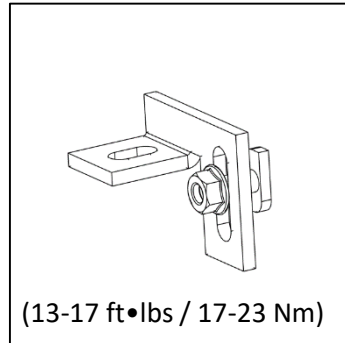
TOOL LIST

String Line
Measuring Tape
Sharpie
13mm Socket
Torx 40 bit
Impact Driver

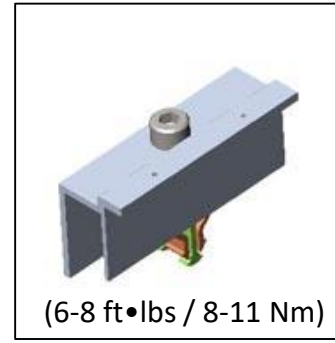
Components with Torque Values:



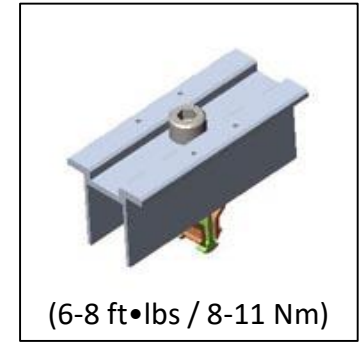
98121-02
Standing Seam Clamp



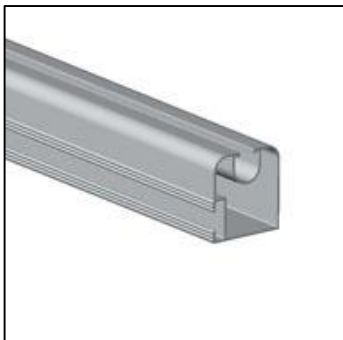
92873
Miracle Bracket



1412b
ClikLoc end-clamp



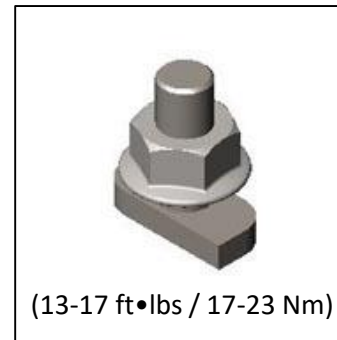
1411b
ClikLoc mid-clamp



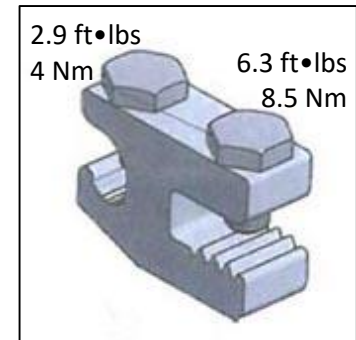
8395
SkyRail3



1946
Splice bar with bonding
washer - SkyRail3



3220: T-bolt
3501: Nut



8210
IlSCO SGB-4 lug

Standing Seam Roof: Standing Seam CLAMPS



- On standing seam roof, standing seam clamps are used
- Use string line to mark the location points for clamps
- Use 5mm allen bit to secure the clamp



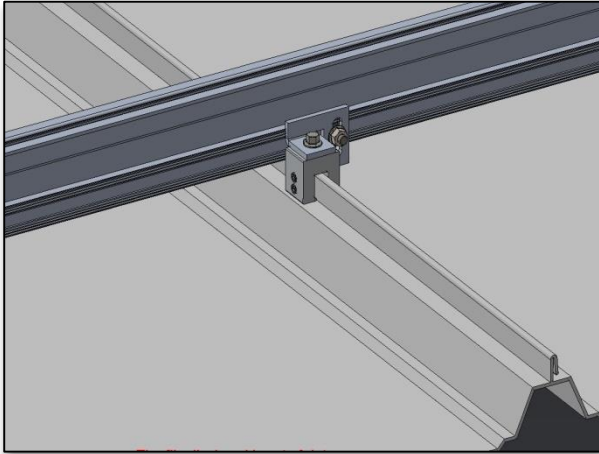
Crimp seams if necessary to get the clamps to fit over the seam and sit flat.



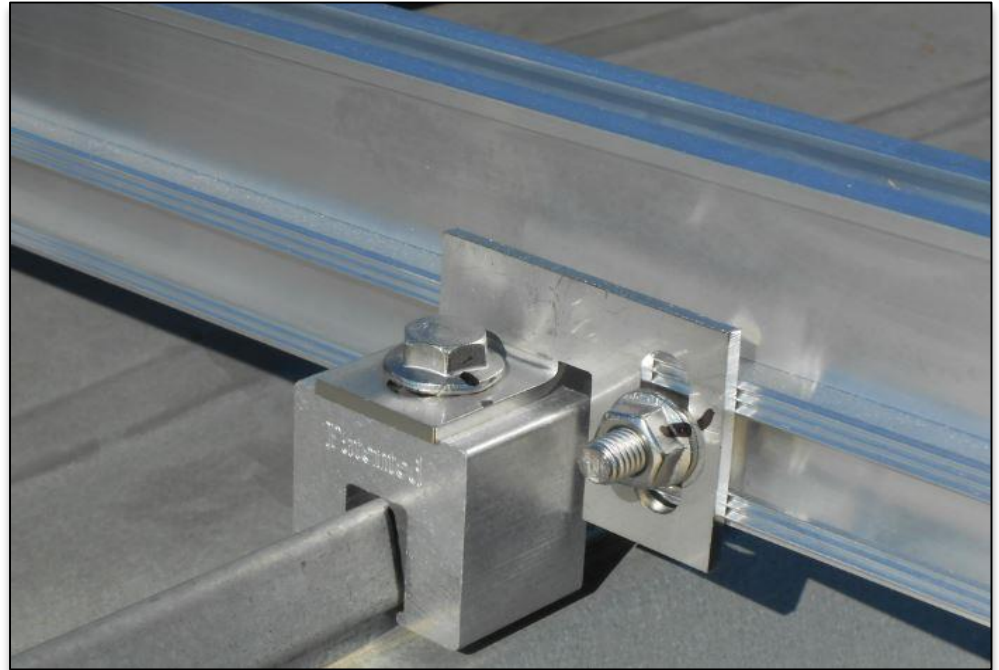
- Standing seam clamps will work with SKYRACK in the vertical or horizontal position

Miracle Brackets (17-23N·m, 13-17ft·lb)

Standing Seam Clamp

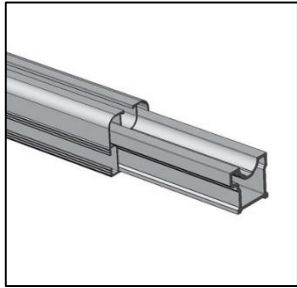


Attach miracle bracket to seam clamp using supplied hex bolt

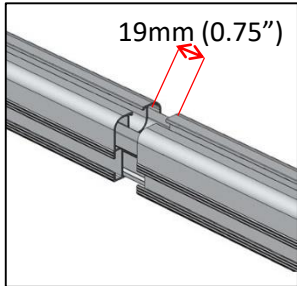


IMPORTANT NOTE: before installing all rails for entire array, always confirm using modules, or accurate measuring, that expected module row lengths will not only fit on installed rails, but that there will be no interference between rail splice points and modules clamps.

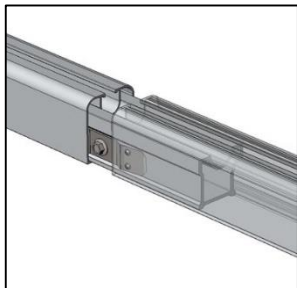
Module Rail Splicing



Step 1 –
Insert splice bar into first rail

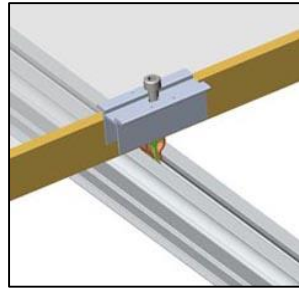


Step 2 – Slide second rail over splice – gap between rails = 19mm (0.75")

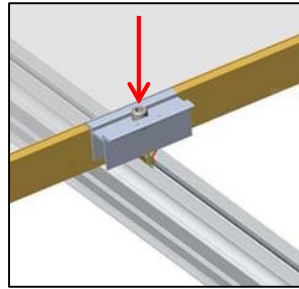


Step 3 – back side of rail/splice showing grounding washer

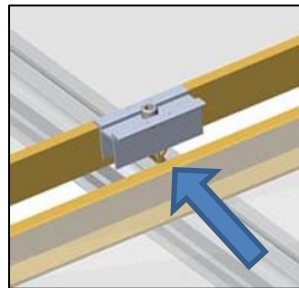
Module Clamping



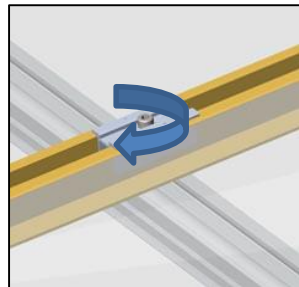
Step 1 – Place clamp on rail near first module



Step 2 – Push down sharply on bolt with tool. Confirm teeth are engaged with rail

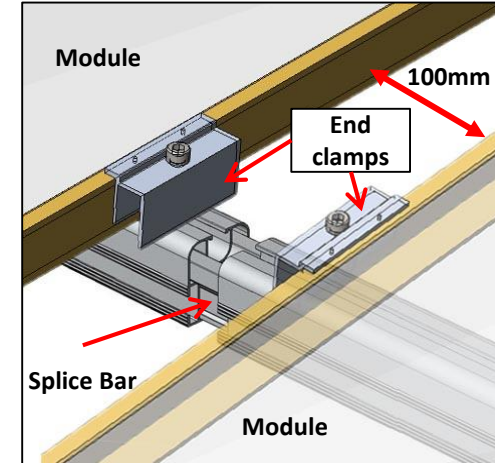


Step 3 – Slide next module tight to/under clamp



Step 4 – **Torque bolt to 6-8 ft•lbs (8-11 Nm) or to module manufacturer's specified torque.**

Expansion Splice

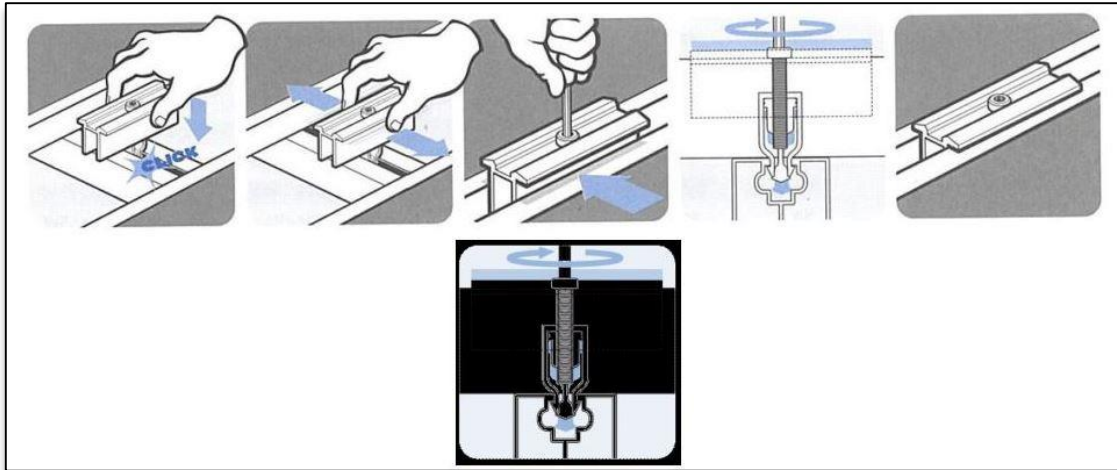


Expansion splices - *only where indicated on Layout (using end-clamps and standard splice bar):*

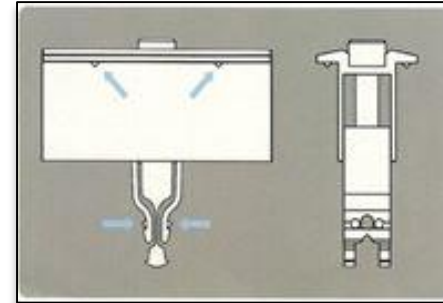
- Expansion splices typically installed after every 18m of continuously joined rails
- Leave 100mm (4") between modules. Cut rails in between modules if needed.
- Use end-clamps on either side of expansion splice
- **Leave 19mm (0.75") between rail ends**

Placing Solar Modules – ClicLoc Clamps (8-11N·m, 6-8ft·lb)

NOTE: All module clamps use Torx 40 bit. Supplied with every order.



ClicLoc mid-clamp with integrated grounding nodes.



Use a mid-clamp as a temporary spacer to ensure an even 3/4" (20mm) gap around modules

- Snap ClicLoc clamp into rail by pushing downwards. Tighten once clamp is flush with module
- Once ClicLoc end clamp is secure and module in place, snap the ClicLoc mid-clamp into the rail flush against module
- Confirm modules are flush with clamps. Taking time/care in getting the first PV module square, following modules line up more easily
- Consult installation layout when placing the first module. Ensure there is enough space on all rails to fit all required modules and clamps before proceeding

****Torque module clamps to 6-8 ft-lbs (8-11Nm) using Torx 40 bit. Do not over-torque****



Grounding – IlSCO SGB-4 (4N·m, 2.9ft·lb)

- As per diagram, use SGB-4 to bond one rail per row of modules. System grounding must be in accordance with the National Electrical Code, ANSI/NFPA 70.

