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Solar Mounting Solutions

AEE Solar

New Products for 2018

New Products for 2018

- S100 Tile Replacement
- Junction Box XL
- Universal Wire Clamp
- RL
- MLPE Frame Attachment

S100 Tile Replacement

New!

- Superior Mounting Solution for Tile Roofs

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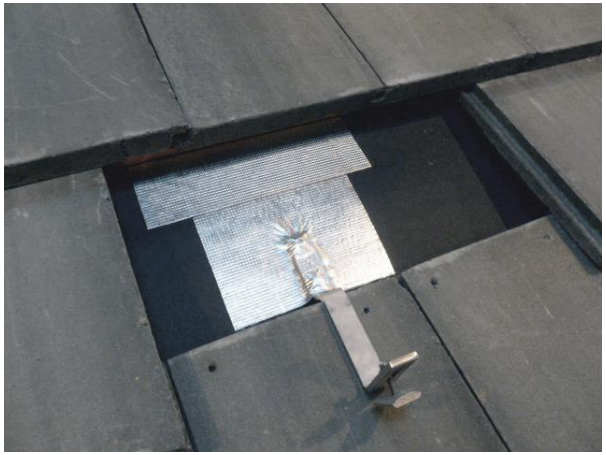
Current Tile Solutions

- Tile Hooks
  - Fitment Issues
  - Grinding Tiles
- Standoffs
  - Time consuming process
  - Cutting/Drilling Tiles
- OSHA regulations - (Sept 2017)
  - Grinding/Cutting Tiles - Silica dust exposure – lung cancer, respiratory failure, kidney disease
  - Employers must implement a written control plan inclusive of medical exams, chest x-rays, and lung tests every 36 months
  - Mandate cutting equipment with integrated water delivery system



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The Cost of Broken Tiles

- Broken tiles contribute up to $0.035/Watt to solar installations on tile roofs
  - Cost of replacement tiles
  - Time and labor involved with sourcing correct tiles
  - Additional labor to install replacements for broken tiles
  - Mobilization costs – going back out in the field after the job is done to replace broken tiles

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The SnapNrack Tile Replacement Solution

- Eliminates grinding/cutting of Tiles
- Net positive tile consumption
  - Tiles that are removed can be used to replace those broken over the course of install
- Labor Savings

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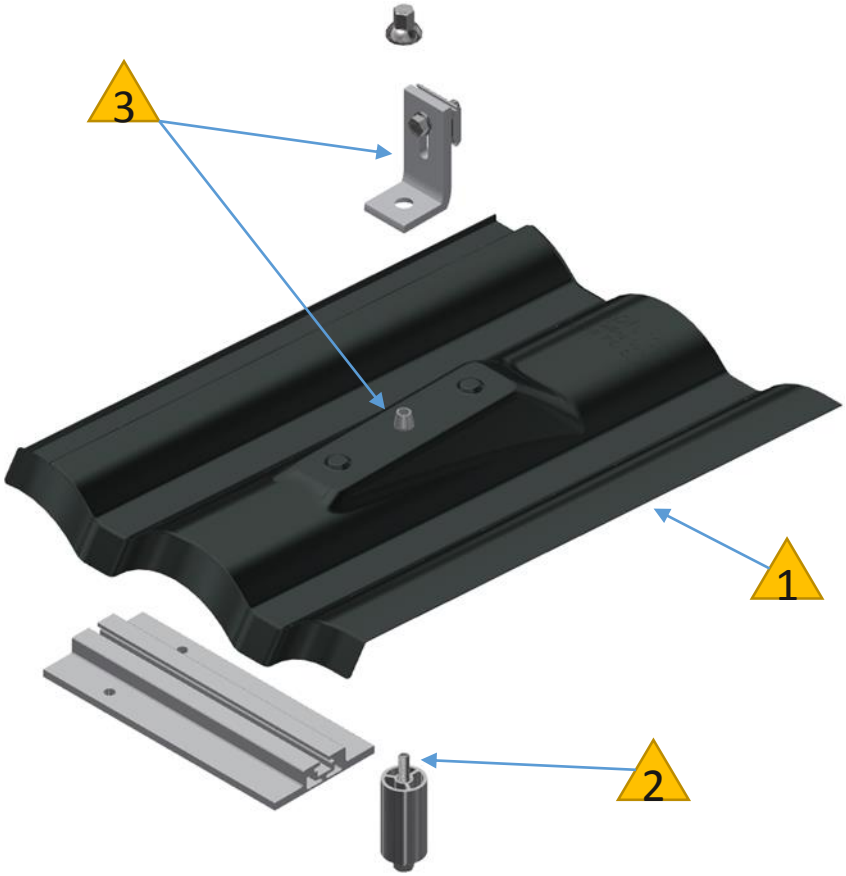
Features and Benefits

1. Soft aluminum flashing material is easily formed for the best fit yet withstands harsh environments
2. Standoff with threaded stud provides the simplest operation without any loose parts
3. Patent pending umbrella technology maintains a weatherproof seal
   - Priced competitively with Universal tile products on the market



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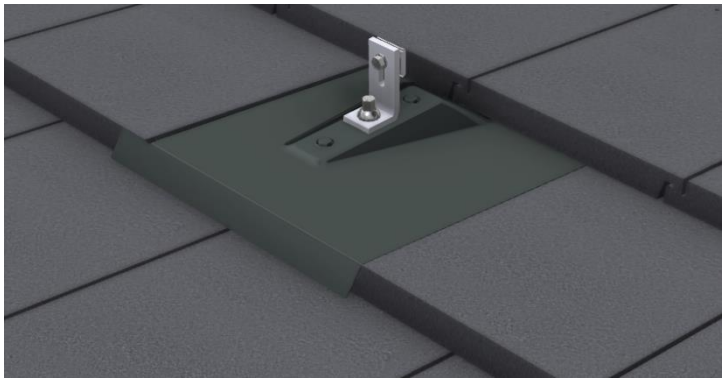
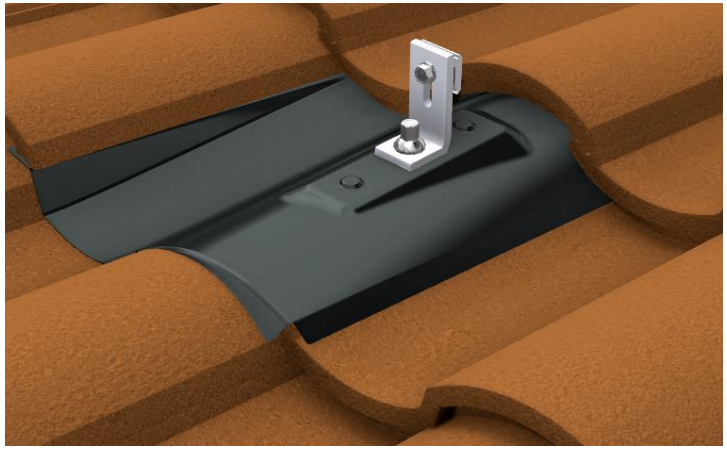
Tile Types

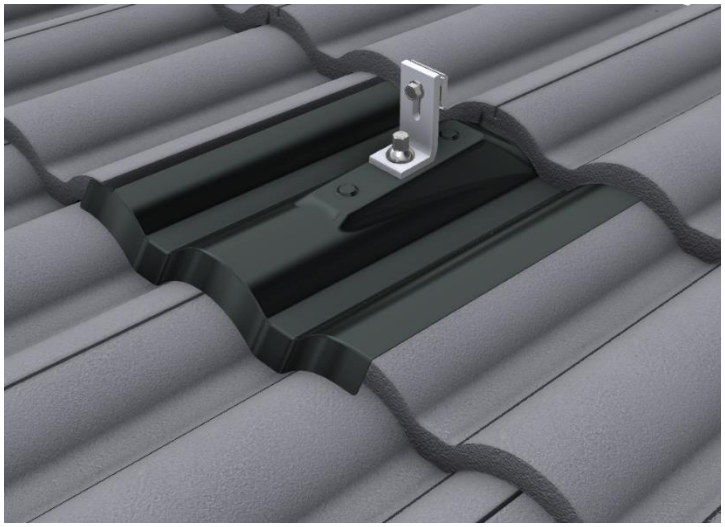
- S100 Flat Tile Replacement Kit
  - 242-01110



- S100 W Tile Replacement Kit
  - 242-01112



- S100 S Tile Replacement Kit
  - 242-01114



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Junction Box XL

- New Larger Junction Box
  - 75% more working room
  - Multiple arrays and accessories

Overall Dimensions [in]:

10.7 L x 9.4 W x 3.5 H

vs.

8.9 L x 6.4 W x 3.5 H

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Junction Box Portfolio

242-01104 J-Box R for Rail

Mounting features that Snap-In to SnapNrack rail without the need for additional roof penetrations

New!

242-01113

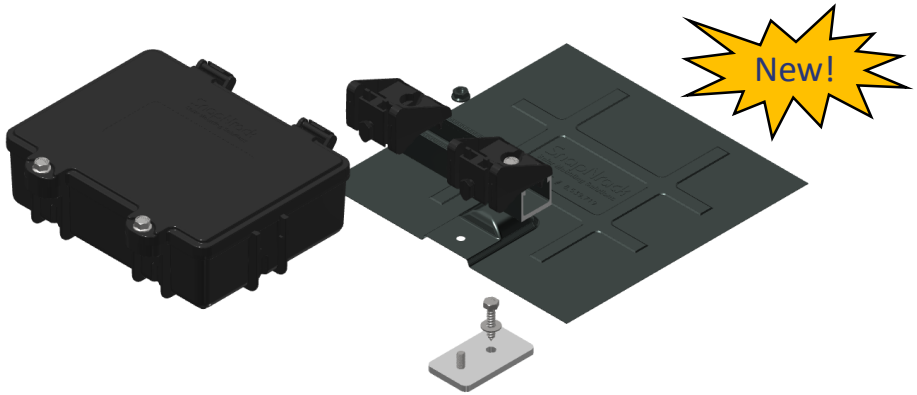
J-Box S w/Comp Kit

Standard size box with a SnapNrack base track and Comp Shingle Flashing for use with Railless systems

New!

242-92120 J-Box XL for Rail

Extra Large Junction Box with mounting features that Snap-In to SnapNrack rail without the need for additional roof penetrations



New!

242-92121 J-Box XL w/Comp Kit

Provided with a SnapNrack base track and Comp Shingle Flashing for use with Railless systems

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Universal Wire Clamp

- 242-02150 Universal Wire Clamp R
  - Leverages existing features of the clamps for rail
  - Combines existing trunk cable and 4-wire clamps into a single clamp
  - Compatible with any combination of PV wires, Engage cables and Q cables

TRUNK CABLE CLAMP &
4-WIRE CLAMP FOR RAIL
242-02103
242-02102

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Mounting System

SnapNrack RL Component Overview - Simple as ABC

A Mounts

B Mounts

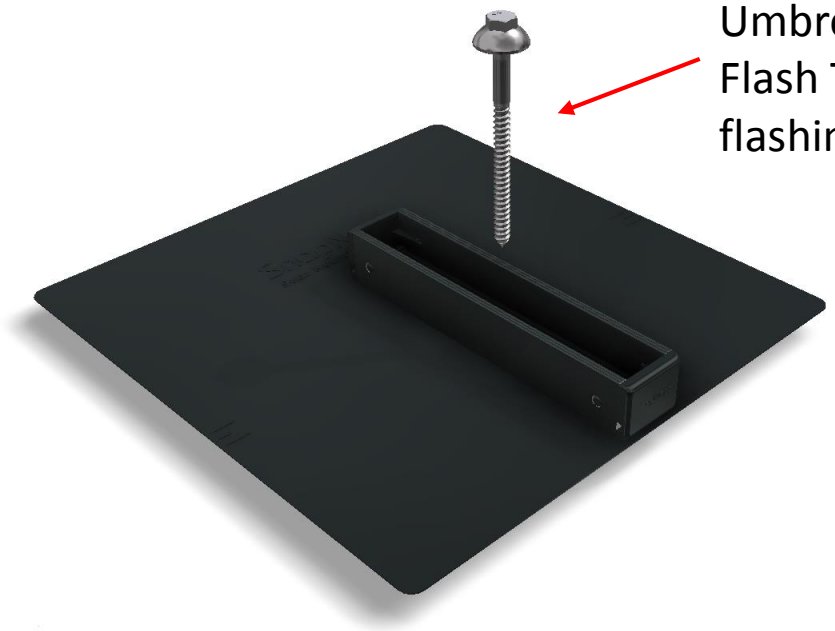
Complete System Solution

Industry Leading 20 Year Warranty

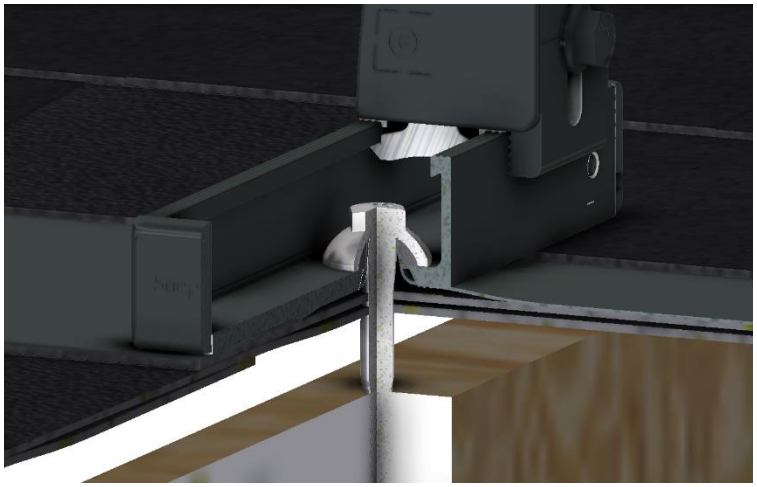
C Link Clamp

Umbrella Bolt Sealing

SnapNrack RL Components – Flash Track



Umbrella Lag secures Flash Track and flashing to the roof.



- Single lag screw secures flashing, base, and mount assembly to the roof.
- Patent Pending Umbrella Bolt technology provides 20 year weatherproofing
  - Flashing protrudes into cavity underneath lag

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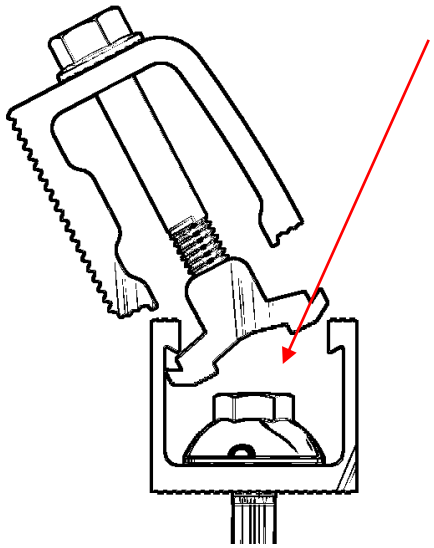
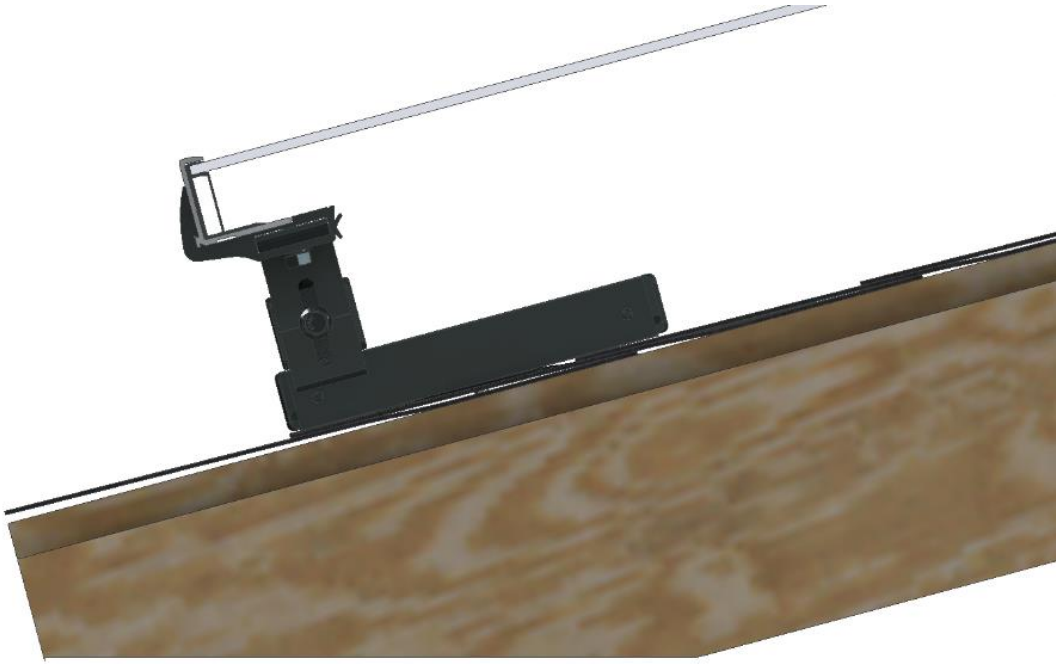
SnapNrack RL Components – A and B Mounts

Mounts snap into Flash Track channel





- Flash Track allows for a full 6 inches of North-South adjustability

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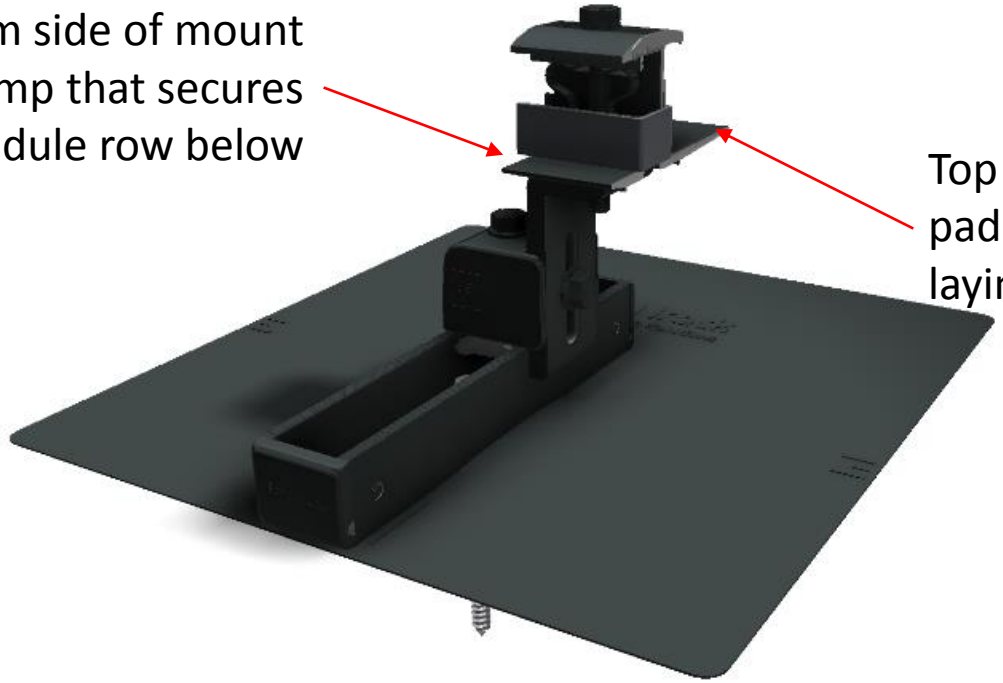
SnapNrack RL Components – A Mounts

- Top of the line aesthetics without the need for a skirt
- A Mounts provide a secure sleeve-in module attachment
  - No need to reach over the module
  - No bottom-side fastening of modules required
- 1.5” of vertical adjustability with string line feature for easy levelling
- A mounts are module frame height specific (32mm, 35mm, 38mm, 40mm)

SnapNrack RL Components – B Mounts

Bottom side of mount provides clamp that secures the module row below



Top of mount provides landing pad and drop in sleeve for laying modules down above

- B Mount provides clamping to secure top edge of module prior to installing next row up the roof
- B Mounts are module frame height specific (32mm, 35mm, 38mm, 40mm)
- Landing pad on top provides space to sleeve next row of modules with no need for additional clamping
- All mechanical fastening is done along the top of the row

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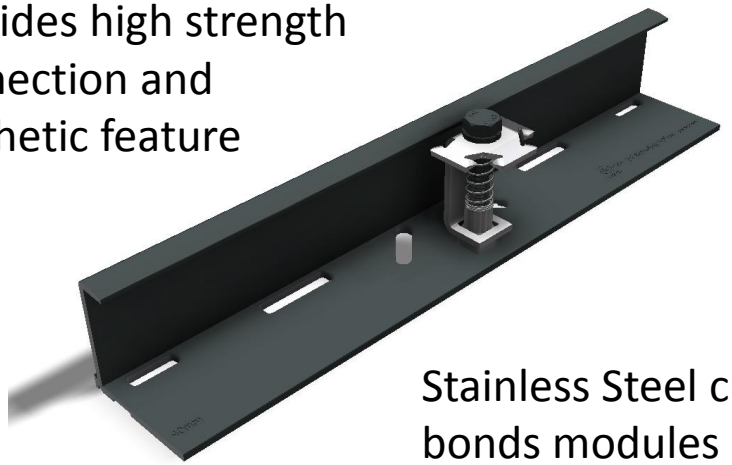
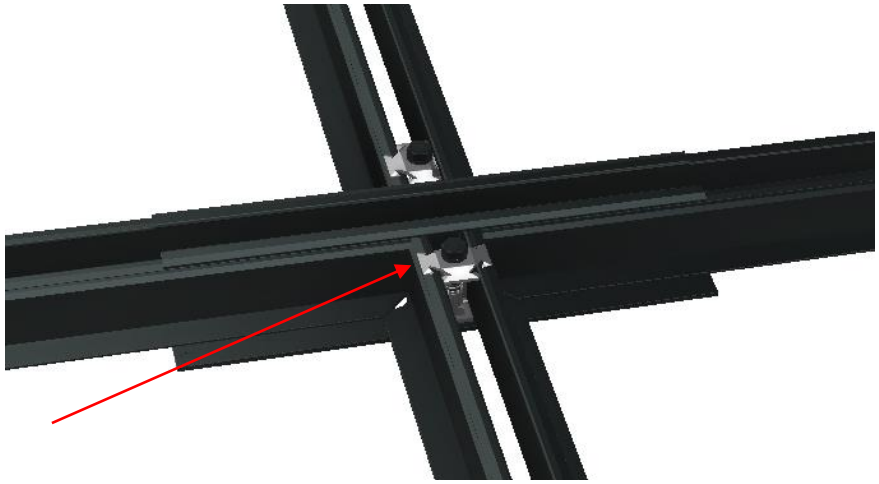
SnapNrack RL Components – C Links

Aluminum sleeve provides high strength connection and aesthetic feature



Stainless Steel clamp bonds modules and creates rigid structure



- C Links provide bonding and structural connection between two modules in a row
- C Links are module frame height specific (32mm, 25mm, 38mm, 40mm)
- C Links can be installed independently or in conjunction with A Mounts and/or B Mounts

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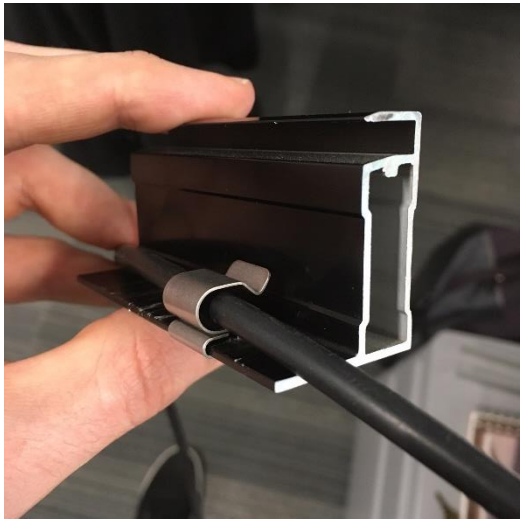
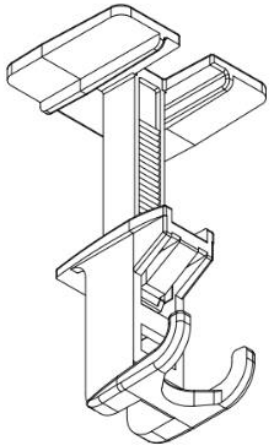
Wire Management

- New Smartclip provides wire management at any point along the module
  - 232-01170 Smart Clip I
  - 232-01173 Smart Clip II
- Easily tucks wires away within the module envelope to avoid any unintended removal over time
- Wire Saver provides the ability to secure loose wires post module install
  - 242-92262 Wire Saver
- Perfect for last minute wire management





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Optional Ridge Mount

- Extended B mount for use where jurisdictions do not require setbacks from the peak of the roof

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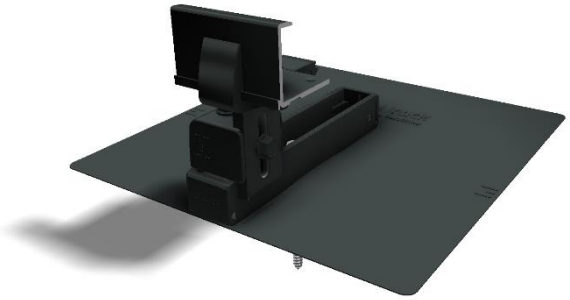
SnapNrack RL Component Overview - Simple as ABC



RL Railless System	
RL Comp Flash Track Kit	242-92250
RL A Mount, 32mm	242-92332
RL A Mount, 35mm	242-92335
RL A Mount, 38mm	242-92338
RL A Mount, 40mm	242-92340
RL B Mount, 32mm	242-92432
RL B Mount, 35mm	242-92435
RL B Mount, 38mm	242-92438
RL B Mount, 40mm	242-92440
RL C Link, 32mm	242-92532
RL C Link, 35mm	242-92535
RL C Link, 38mm	242-92538
RL C Link, 40mm	242-92540
RL Ridge Mount, 32mm	242-92632
RL Ridge Mount, 35mm	242-92635
RL Ridge Mount, 38mm	242-92638
RL Ridge Mount, 40mm	242-92640
RL Mount Sleeve, 32mm	232-01532
RL Mount Sleeve, 35mm	232-01535
RL Mount Sleeve, 38mm	232-01538
RL Mount Sleeve, 40mm	232-01540
RL Flash Track Spacer	242-92254

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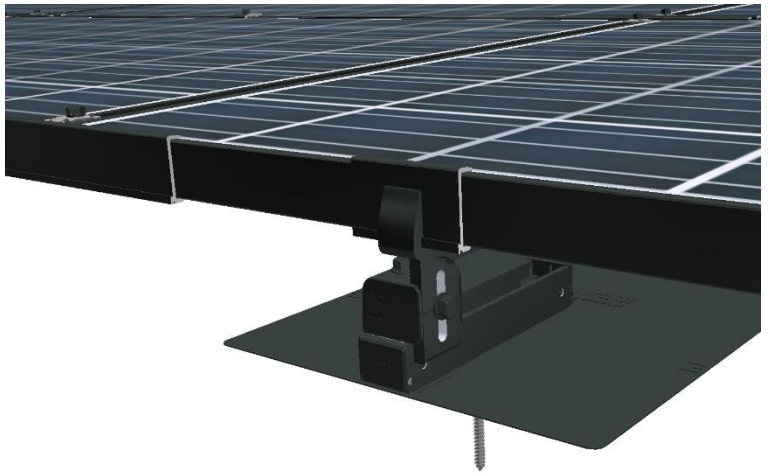
RL Features and Benefits

- Elimination of rail provides cost-saving benefit for entire system
- Smaller individual components means easier logistics to get parts on the roof
- Unique A Mount design provides a sleek finish to front of array without needing a skirt (though it is optional)
- Pre-assembled mounts and single tool installation make job fast and easy
- System design requires only securing module on top side meaning less steps during install



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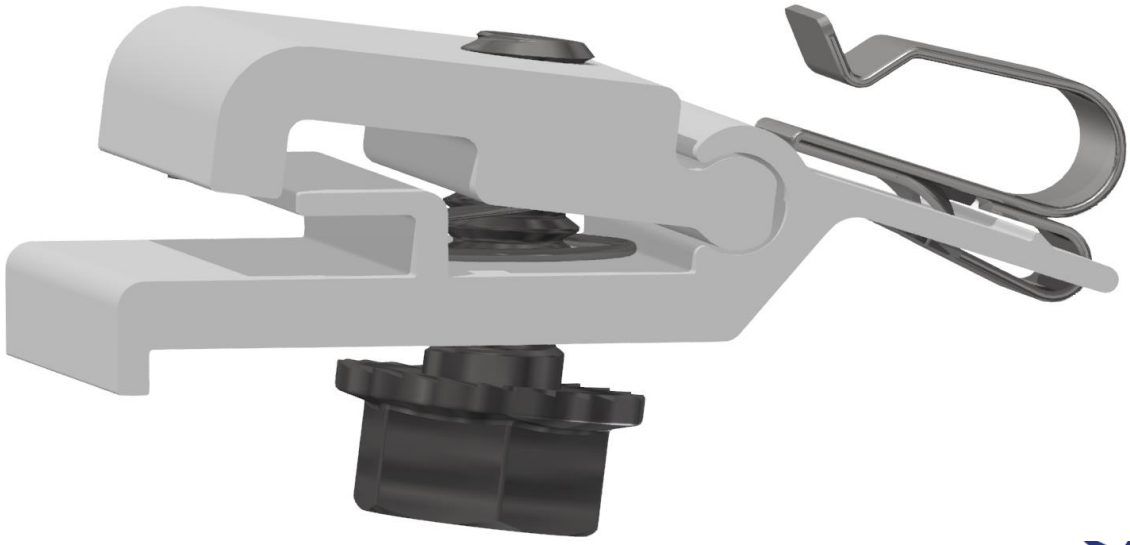
MLPE Frame Attachment

- 242-02151 MLPE Frame Attachment Kit
  - Secures to inside of module frame with alignment features to prevent rotation and ensure proper attachment
  - Single bolt clamps onto MLPE device and module frame using standard ½” socket
  - Includes Smart Clip for managing wires from MLPE device securely



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Availability

- Universal Wire Clamp
  - Order Now, material stocked in most locations, available with standard lead time
- RL, Tile Replacements, and J-Box-XL
  - Product is available for order now
  - Lead time dependent on order volume
  - Standard package quantities
    - RL – A Mount, B Mount, C Link, Wire Saver, MLPE attachment – 20 pcs
    - RL – Ridge Mount – 10 pcs
    - RL Smart Clips – 100 pcs
    - Tile Replacements – 10 pcs
    - J-Box – 1 pc

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Questions?

Appendix Deck Level Flashing for S100

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