

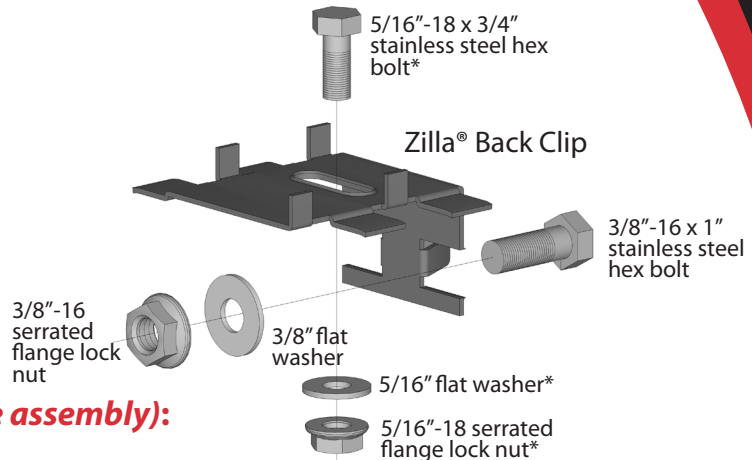
Zilla® Back Clip Installation Instructions

Use the following instructions to install the Zilla® Back Clip (patented/patent(s) pending).

Parts included in the assembly:

- Zilla Back Clip
- 5/16"-18 x 3/4" stainless steel hex bolt*
- 5/16" flat washer*
- 5/16"-18 serrated flange lock nut*
- 3/8"-16 x 1" stainless steel hex bolt
- 3/8" flat washer
- 3/8"-16 serrated flange lock nut

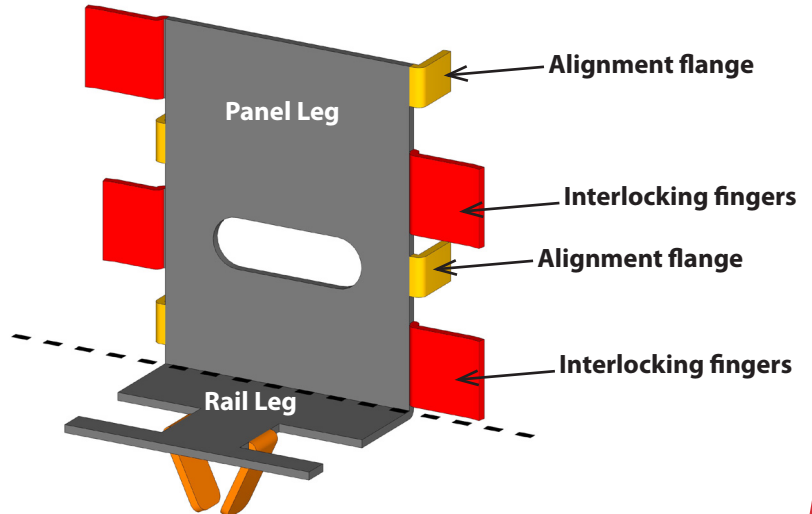
* verify hardware per panel manufacturer.



Parts & Tools needed (in addition to the assembly):

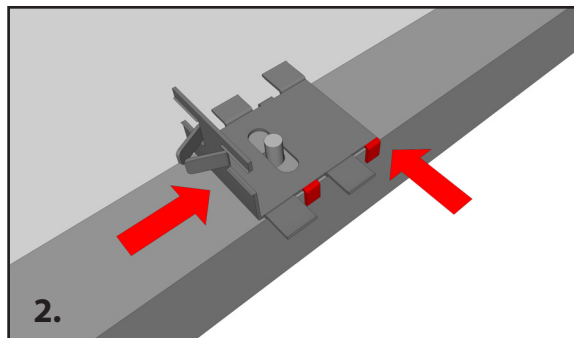
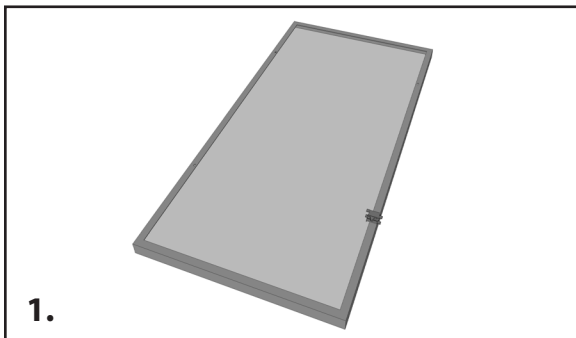
- Zilla® Racking System made in whole or combination of Zilla® Rac 2.0, or Zilla® Dual Grip with an available slotted channel perpendicular to the slope of the system on the uphill side.
- PV panel(s) with four mounting holes
- Torque wrench
- 9/16" socket to fit 3/8" hardware
- 1/2" socket to fit 5/6" hardware*
- 1/2" wrench or crescent wrench*

* verify hardware per panel manufacturer.



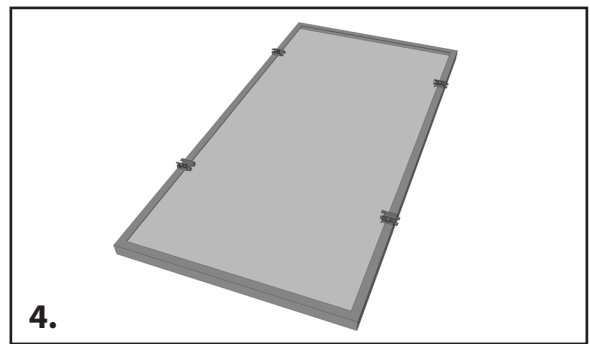
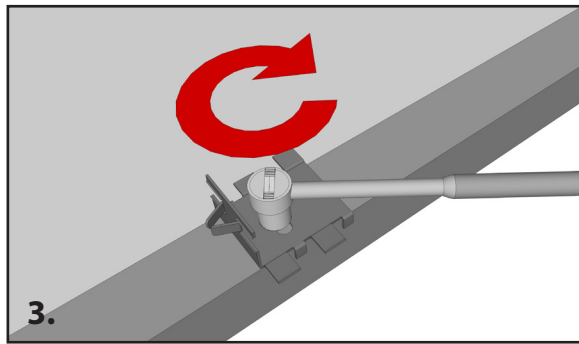
Installation Steps

Mount Clips on PV Panel(s)



1. Place PV Panel on non-scratch secure surface, face down.

2. Place the panel leg of the Zilla Back Clip flush against back side of PV panel frame. Align the clip slot over the panel mounting hole. Using the appropriate hex bolt to fit the panel, insert bolt through the frame hole and clip slot from the back side. Force clip towards top edge of panel tight against the bolt and press Alignment Flanges flush to outside edge of panel.

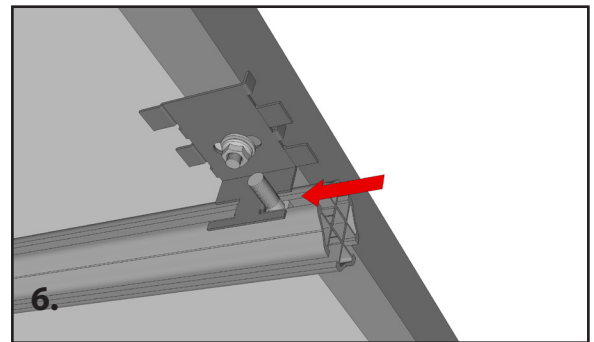
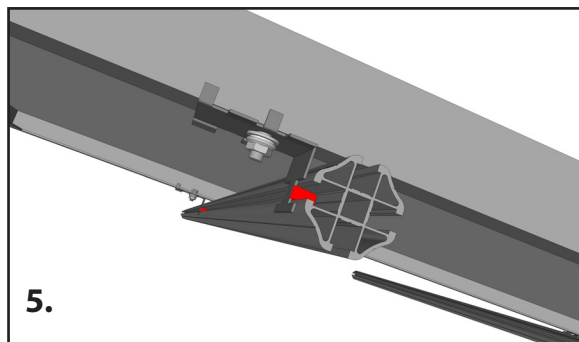


3. Grasp the head of the bolt from the back side with a matching wrench. Place the matching flat washer, and serrated flange lock nut over the bolt and engage the nut to capture the hardware. Ensure proper clip alignment from Step #2 then use a torque wrench to tighten the nut to 15 ft-lbs.
4. Install the remaining three Zilla Back Clips by repeating Steps #2 and #3.

Install the Panels across the array

Check the racking to ensure the vertical and parallel spacing between the rails matches the spacing between the Zilla Back Clips. Slide the 3/8"-16 bolts for each panel into the slot of rail before starting for speedy assembly.

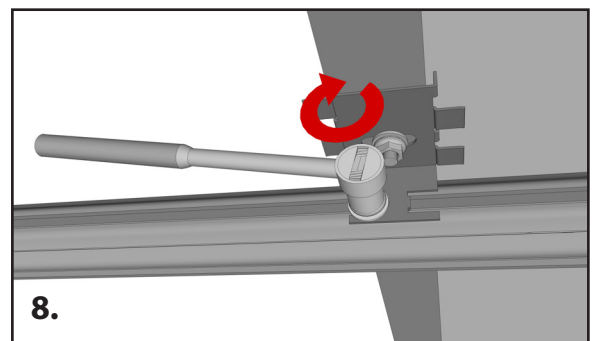
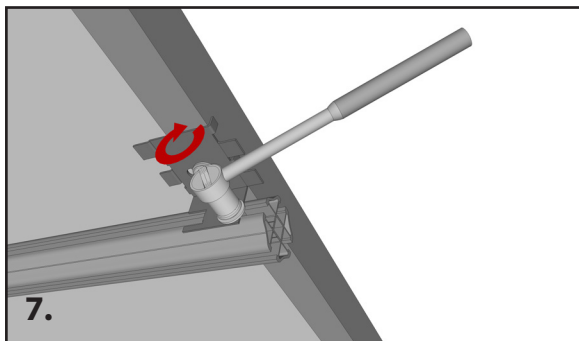
Installer Tip: The first panel on the rack will require four anchor bolts, each panel after that requires one bolt per rail (two total per panel) at the exposed end to anchor each panel across the array. Installer Tip: Keep one of two rails loose for field adjustment (more space between rails is better than less).



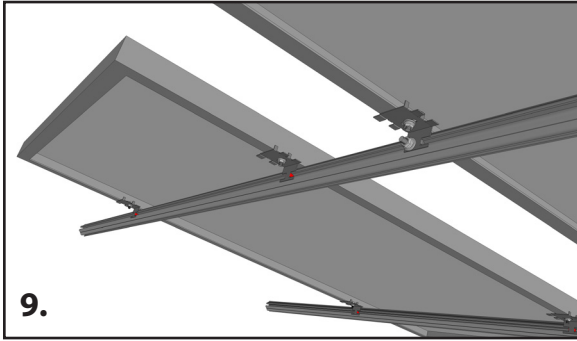
5. Set the first panel frame flush against the rails with the Rail Leg and Retention Tabs above each rail, facing down. Slide the panel down until the Rail Legs rest against the top face of each rail and the Retention Tabs engage into the slot of the rails. Move the panel horizontally into place.

Installer tip: For ease of Zilla Back Clip install for a roof flush mount system, set one of two rails loose for field adjustment and utilize an adjustable mounting part, such as an L-Foot, to shift the rail and L-Foot into place. For other racking systems, such as a ground mount, utilize a U-Bracket for the same method.

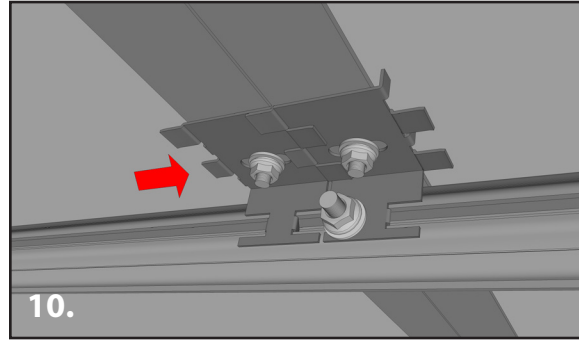
6. Slide a 3/8"-16 x 1" hex bolt into the adjacent slot of rail against the Retention Tab to capture the Rail Leg. Secure both clips, one on each rail.



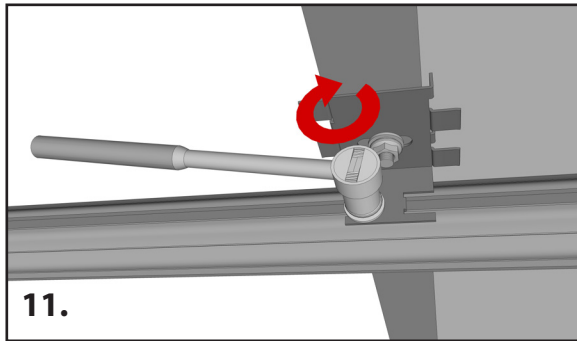
7. Place the matching flat washer, and serrated flange lock nut over the bolt and engage the nut to capture the hardware. Ensure proper panel location then use a torque wrench to tighten the nut to 15 ft-lbs.
8. Repeat Step #6 on the exposed clips on the other side of the panel.



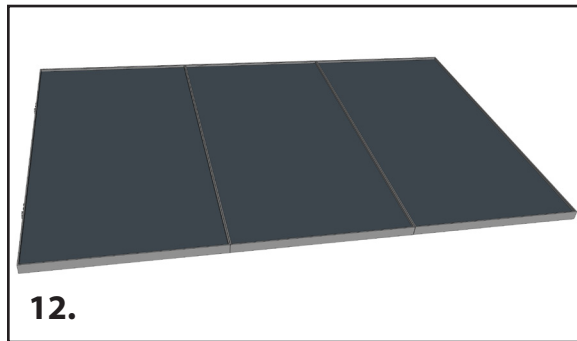
9. Repeat Step #5 to set next panel. Slide horizontally towards previously installed panel.



10. Ensure Interlocking Fingers of the two clips are fully engaged, both rails.



11. Repeat Steps #6 and #7 on the exposed clips to lock panel in place.



12. Return to Step #5 for each consecutive panel and continue throughout array per project design. Ensure all Interlocking Fingers are engaged on all clips, both rails.



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