

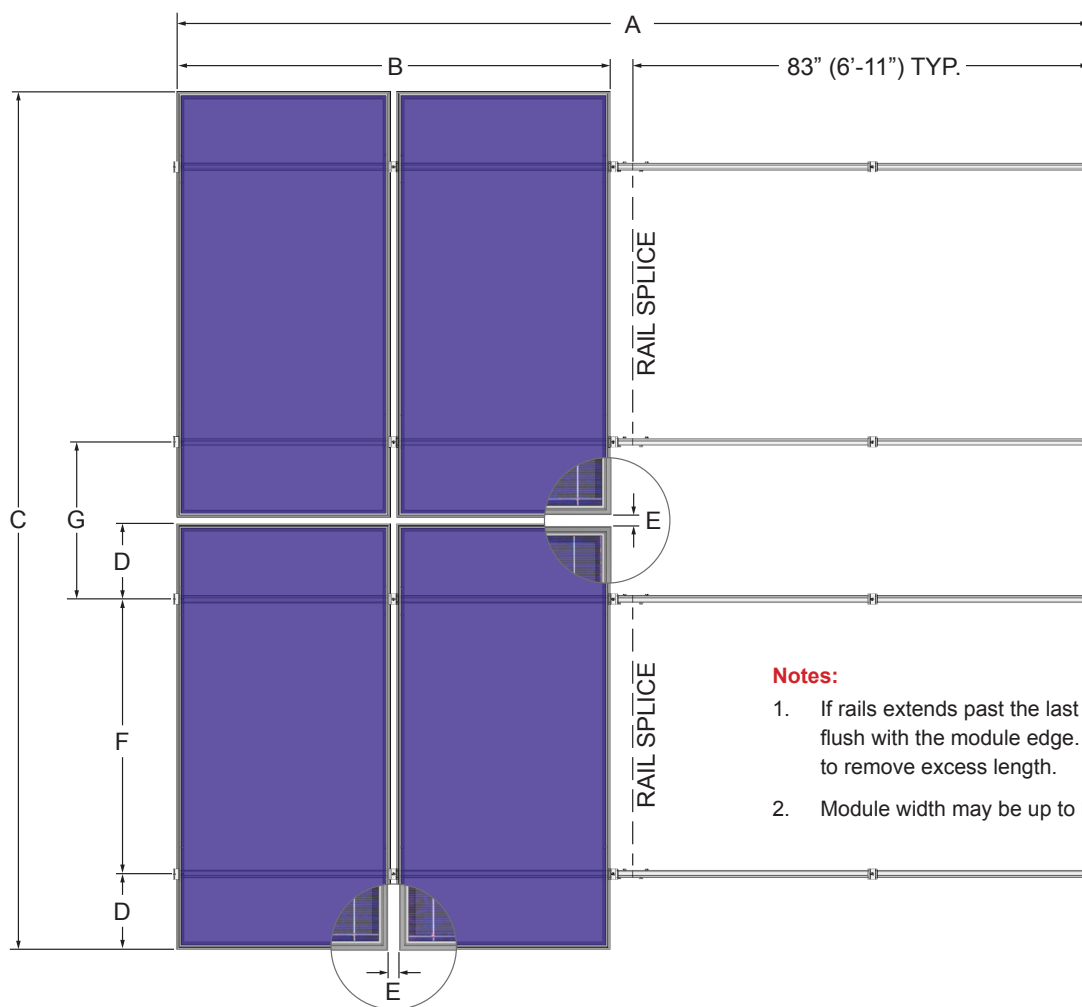


Zilla® Rac Pac®

(Universal Modular Rail Mounting Kit)

Installation Guide

ZRP-BLK / ZRP-MF



Notes:

1. If rails extend past the last module, mark the rails where flush with the module edge. Lift each module & cut the rail to remove excess length.
2. Module width may be up to but NOT exceed, 41.0" wide.

Developing your Array Layout

A) Total Rail Length = number of Rac Pacs connecting with splices in a single line x 83". See Note 1.

B) Total Array Width = (Module Width x number of modules in a row) + [(number of modules in row - 1) x 1"]. See Note 2.

C) Total Array Height = (Module Height x number of modules in a column) + [(number of modules in column - 1) x 1"]

D) Distance from Module Mounting location on rail to edge of module = (Typically Module Length x 1/4)

E) Distance Between Modules = 1" (spacing for integrated use of Zilla® Top Row Grounding Assembly, sold separately)

F) Rail Separation = Module Length - (D x 2)

G) Row Separation Rail to Rail = (D x 2) + 1"

Requirements

- PV modules may be up to, but not exceed, 41.0" wide.
- Engineer of record to assess suitability of existing structural lateral and gravity force resisting systems to handle additional loads.
- Rail design is based on typical 60 and 72 cell module widths.

All dimensions referring to module size must be verified with the module manufacturers specification sheet for the module chosen to be attached to the Zilla® Rac Pac® Rail System. Installer is responsible for verifying compliance with module manufacturer and AHJ prior to installation.

PATENTS PENDING

Zilla® So Simple It's ScarySM

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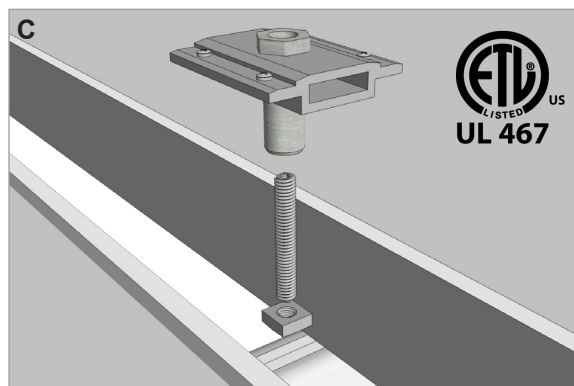
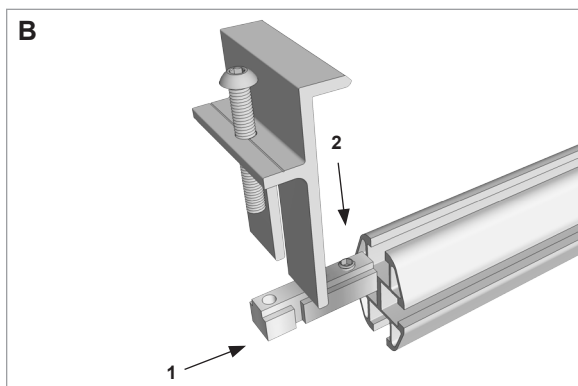
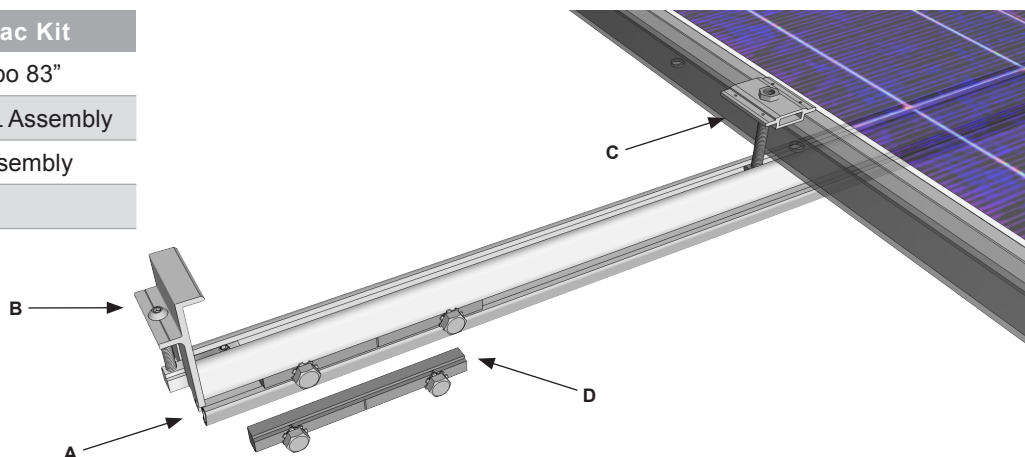
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Detail Components

ZRP-BLK / ZRP-MF

Components in each Rac Pac Kit		
A	2x	Zilla® Quad Combo 83"
B	4x	Zilla® End Clip XL Assembly
C	4x	Zilla® Top Clip Assembly
D	4x	Zilla® Splice Kit



A) Zilla® Quad Combo

- integrated raceway for wire concealment
- extruded recycled aluminum
- patent pending

B) Zilla® End Clip XL Assembly

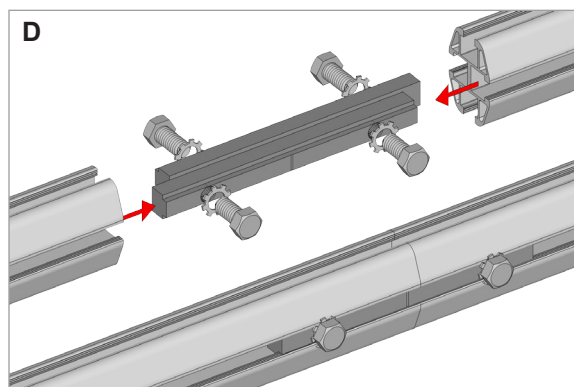
- Allows modules from 26mm up to 52mm
- 5/16"-18 mounting hardware
- patent pending

C) Zilla® Top Clip Assembly

- UL 467 Grounded module attachment solution
- 5/16"-18 mounting hardware
- patent pending

D) Zilla® Splice Kit

- Approved electrical bond between Zilla® Rails
- Quick and easy to install
- 3/8"-16 Hardware



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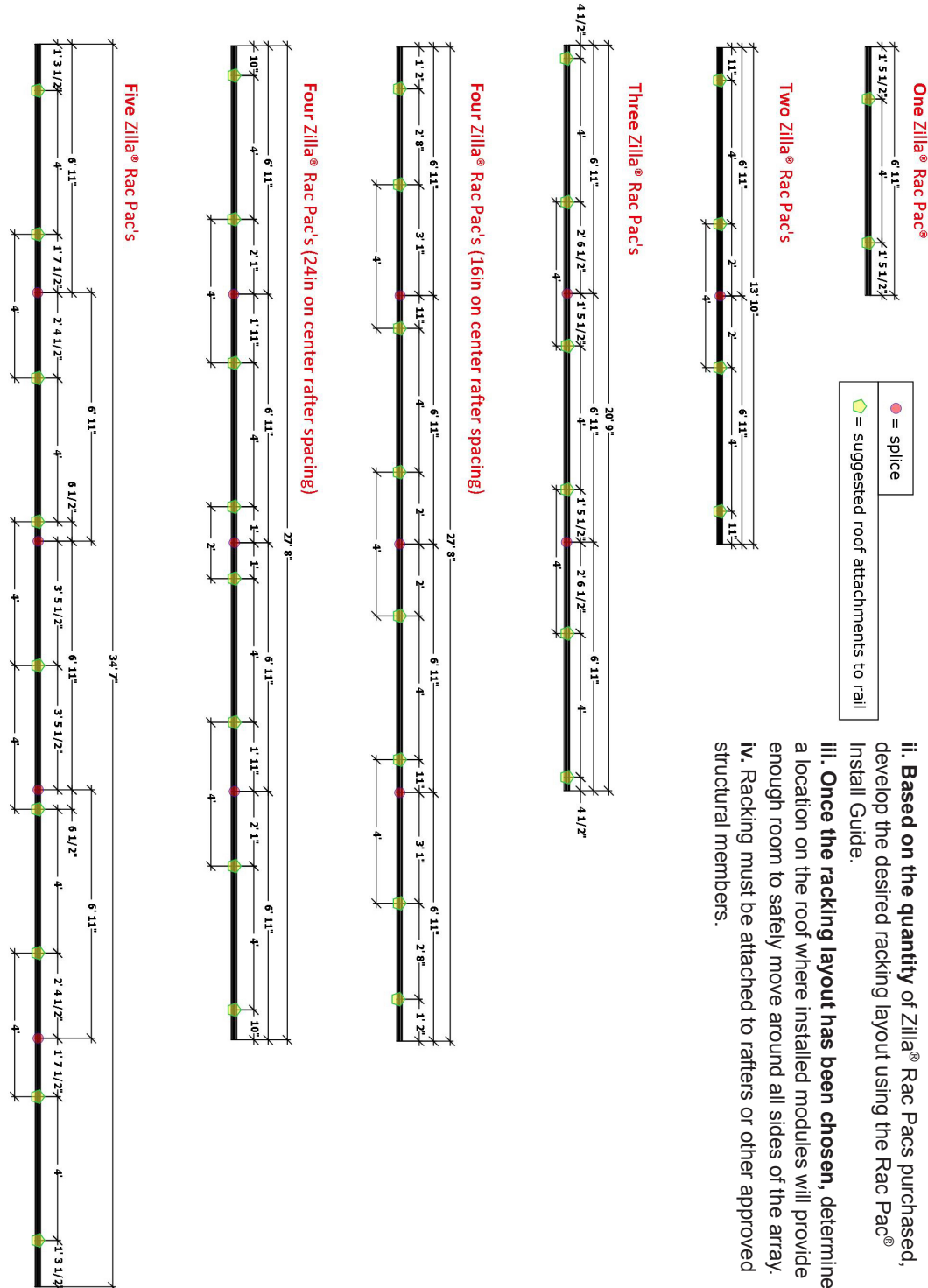


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Suggested Roof Connections

ZRP-BLK / ZRP-MF



NOTE:

- Before beginning installation**, determine governing design codes as outlined by AHJ (Authority Having Jurisdiction). Incorporate AHJ amendments to codes when ensuring design applicability. Allowable snow and wind loads must be verified with AHJ prior to installation. Before beginning installation, verify design compliance with AHJ. The materials supplied in this document follow ASCE 7-05 standards. To use the information as intended, ensure that the supporting structure has the following features:
 - Designs for suggested roof connections** in this install guide are based on the assumption of 16" or 24" on-center member spacing.
- Based on the quantity** of Zilla® Rac Pacs purchased, develop the desired racking layout using the Rac Pac® Install Guide.
- Once the racking layout has been chosen**, determine a location on the roof where installed modules will provide enough room to safely move around all sides of the array.
- Racking must be attached to rafters or other approved structural members.

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