



## ❖ Single Cantilever - Modules Racked in Portrait

The 'Dual Purlin' racked design with modules facing south consists of two parallel Zee purlins (East/West), perpendicular to the solar modules length with attachments positioned on modules long frame at optimum strength locations. Purlins are in two heights creating the desired module tilt angle. Module rows are spaced apart to avoid shading.

Single cantilever column and beam supports can be either 'Full' or 'Partial' cantilever, where the beam attaches to the column. In this form, we offer straight beams applied in the field by welding or bolting to the columns. Standard designs available for 5, 10 or 15 degree tilts and sealed roof with decking.

### Modules

60 or 72 cell (39" Wide): 5, 6, 7 or 8 columns up to 26'-8" wide

### Columns

Wide Flange Beam: ASTM A992 Gr. 50

Spacing: 27ft O.C.

Finish: One coat tinted water base rust inhibitive primer

Optional: Hot Dip Galvanized ASTM A123

### Beams

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### Purlins

Zee & Hat & Z Purlins: Cold Formed #14ga. Steel ASTM A 570 Gr.55

Size: Custom Depending On Tilt Angle

Finish: ASTM A653 G90 Galvanized

### Trim

Cold Formed #14ga. Steel Gr. 55

Finish: ASTM A653 G90 Galvanized

### Module Mounting to Purlins

Top Clamps: W/2 Self Drilling Screws-#12

Preferred: SkyGrip - Self Grounding Mid Clamps

Options:

Top Clamps W/Bolt Thru-Purlin (requires predrilled holes)

Thru-Bolt Module Frame to Purlin (requires predrilled holes)



Partial Cantilever- Modules Racked 5 degrees



Full Cantilever- Modules Racked 5 degrees



Full Cantilever & Decking-Modules Racked 10 Degrees



Partial Cantilever -Modules Racked 5 Degrees