

❖ Double Cantilever -Tilted - Modules Racked in Landscape

The 'Dual Purlin' design with modules racked in 'landscape' consists of two (East/West) parallel 'Z' purlins perpendicular to the solar modules width, attached at optimum strength locations. This 'High-Low' form of Z purlins allows addition tilt of the solar modules without compromising the economy of the low slope T structure design.

The Double Cantilever 'T' structure can be with either Straight or Tapered beams. The center point of the beam attaches to the column with a uniform overhang applied in the field by welding or bolting to the columns.

Modules

60 or 72 cell (39"W): up to 9 rows - 49'-3" wide structure

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

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

Purlins

Zee Purlin: Cold Formed #14ga. Steel ASTM A570 Gr. 55

Typ Size: varies by design

Finish: ASTM A653 G90 Galvanized

Module Mounting to Purlin

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

Preferred: SkyGrip Self Grounding Mid Clamps

Option:

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

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



Double Cantilever-Dual Purlin-Added Southern Tilt



Dual Zee Purlins – Create added Tilt Angle



Optional Decking – Adds Shade Between Modules