

❖ Double Cantilever - Dual Purlin – Modules in Portrait

Double cantilever beam designs otherwise known as a ‘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.

The ‘Dual Purlin’ design with modules in ‘portrait’ consists of two (East/West) parallel purlins evenly spaced below the module and perpendicular to the solar modules length at the optimum strength locations.

Modules

60 cell (65"): 6, 7, 8 or 9 rows up to 49'-3" wide structure

72 Cell (77"): 5, 6 or 7 rows up to 45'-4" 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

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

Typ Size: 10" x 3-1/2"

Finish: ASTM A653 G90 Galvanized

Trim

Purlin End Caps: Cold Formed #14ga. Steel (Gr. 55)

Typ Size: 10-1/8" x 2-1/8" #14ga.

Finish: ASTM A653 G90 Galvanized

Module Mounting to Purlin

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

Option: Top Clamps W/Thru-Bolt (requires drilled hole)

Preferred: SkyGrip Top Clamps-Self Grounding



Double Cantilever- Dual Purlin - Straight Beam



Double Cantilever- Dual Purlin - Tapered Beam



Dual Purlin -Tapered Beam-Hot Dip Galvanized



Purlin End Cap - Trim