

❖ Double Cantilever - Shared Purlin – Modules in Landscape

Double cantilever beam designs 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 ‘Shared Purlin’ design consists of two (East/West) parallel purlins evenly spaced north to south, located below the length of the module perpendicular to the solar modules width. Adjacent module rows share the purlin and top clamps, which are positioned along the ‘long side’ of module frame at the optimum strength locations.

Modules

60 or 72 cell (39” Wide) 9, 10, 11, 12, 13 or 14 rows, up to a 46’-7” 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

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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- Shared Purlin – Modules



Double Cantilever-Shared Purlin-Straight Beam



Double Cantilever-Shared Purlin-Modules Landscape