❖ Double Cantilever - Shared 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.
The 'Shared Purlin' design consists of (East/West) parallel purlins evenly spaced North to South, perpendicular to the solar modules length. Purlins are located under the ends of the module. Adjacent module rows share the purlin and top clamps, which are positioned onto the module frames 'short end'.

Modules
60 cell (65"): 6, 7, 8 or 9 rows, up to a 49'-6" 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 - Straight Beam


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Purlin End Cap - Trim

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