

GroundTrac®

The Original "Top-Down" PV Mounting System for Ground Applications

Benefits of GroundTrac® Patent#6,360,491

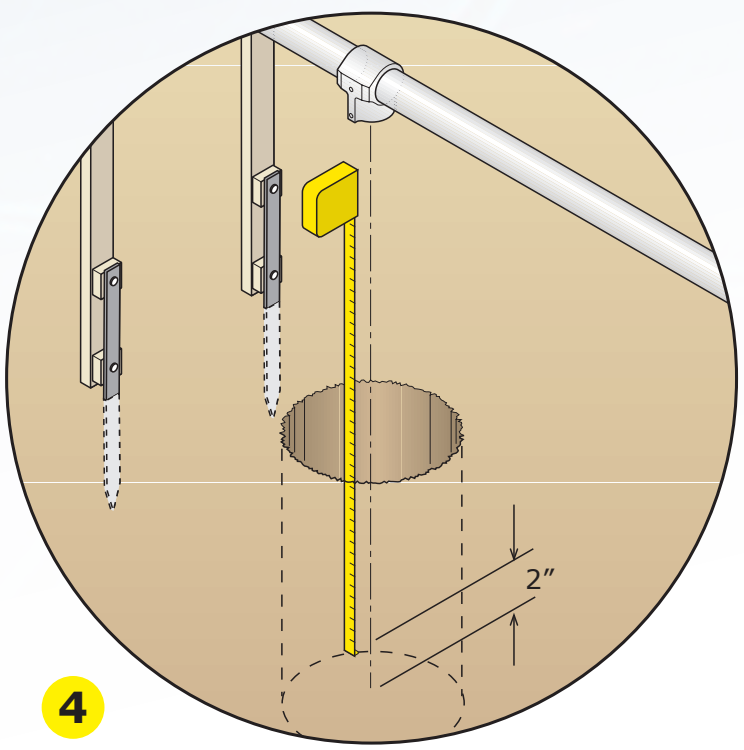
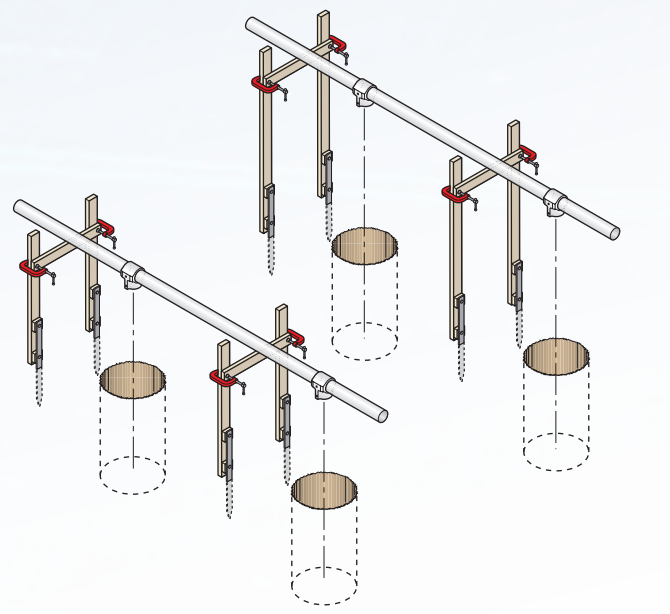
- Industry's preferred low cost and easiest to install ground mount system
 - From kW to MW projects
- Patented ground mount system ships from available stock
- Proprietary Drop-N-Lock rail insert works with all ProSolar GroundTrac® rails
- Over 10 years of ProSolar's proven design
- Pre-engineered and tested for easy permitting
- Rails are available pre-slotted at listed load centers



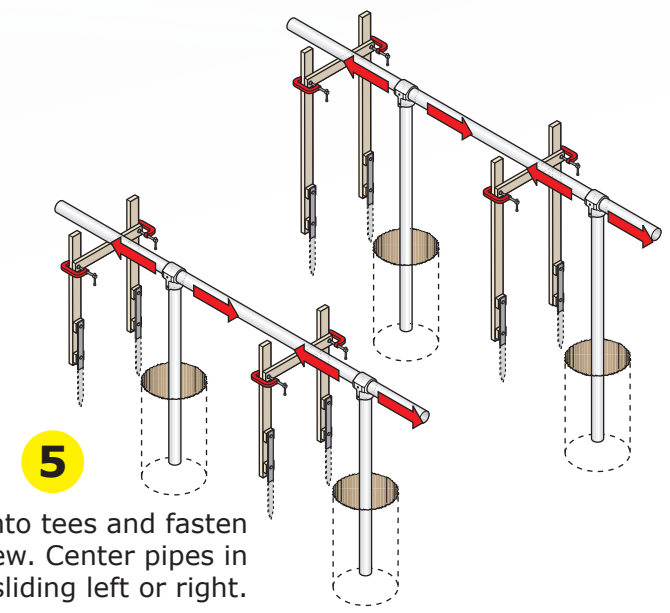
1 Dig footings. Lateral footing spans listed on page 4 (bottom). Front to rear footing spans listed in angle charts on page 4 (top).

2 Assemble re-usable grade stakes (ProSolar metal grade stake kit shown). Recommend 2"x 4" vertical support. Use 1/2" drill bit and 9/16" socket to attach grade stake kit to 2" x 4". Attach 1" x 4" wooden horizontal support using 3-1/2" (min.) C-clamps. Grade stake kit includes: 24" threaded metal stake, aluminum spacer block, bolt and washer.

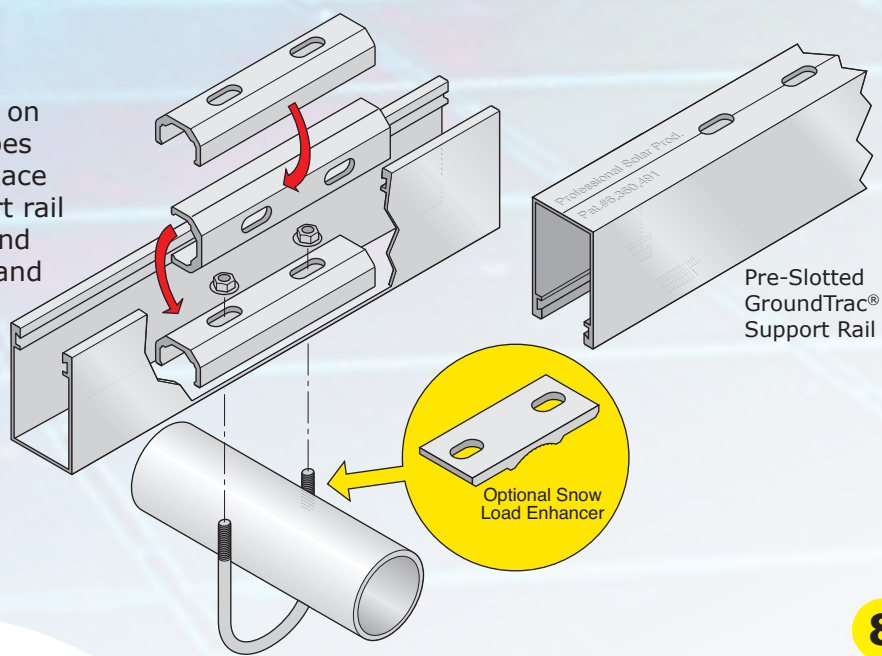
3 Place horizontal 1-1/2" schedule 40 galvanized water pipe with slip-on Hollaender® Tees. Adjust C-clamps as necessary to level pipe.



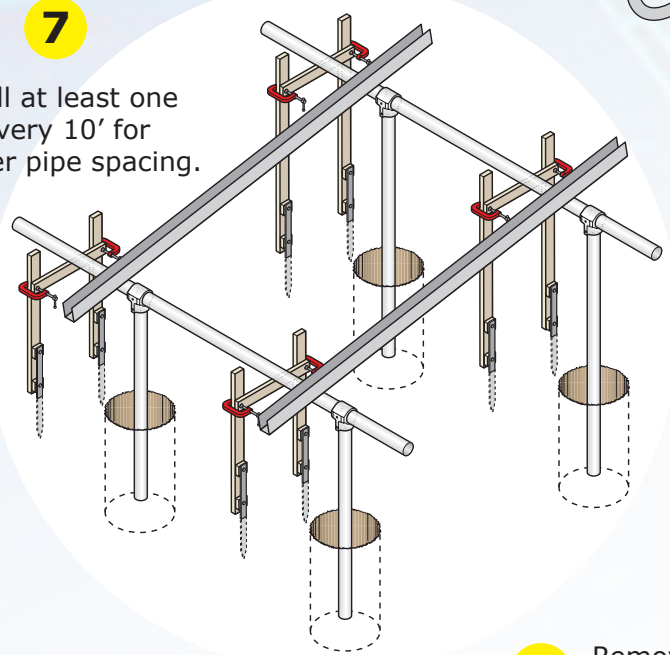
5 Insert vertical pipes into tees and fasten lower tee set screw. Center pipes in footings by sliding left or right.



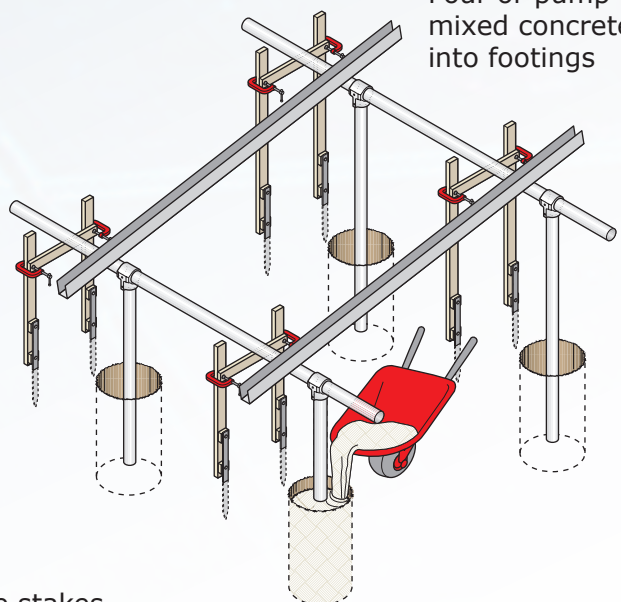
6 Rest pre-slotted rail on top of horizontal pipes and insert U-bolt. Place Drop-N-Lock support rail insert into the rail and align with U-bolt. Hand tighten nuts.



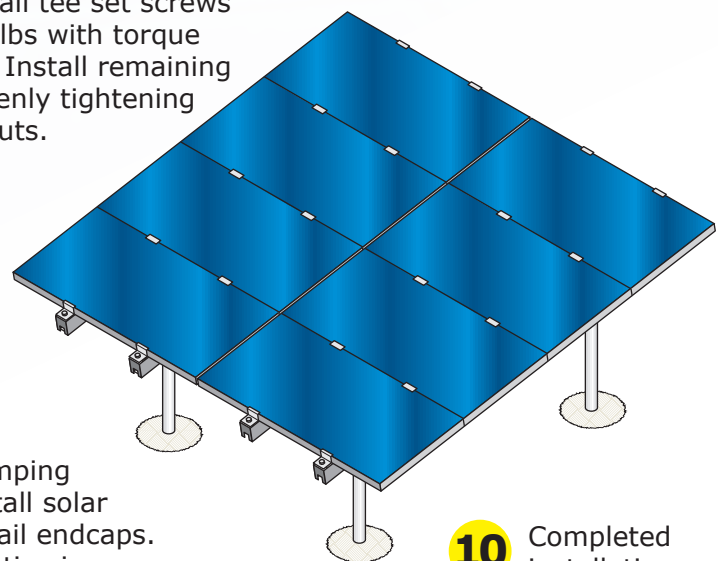
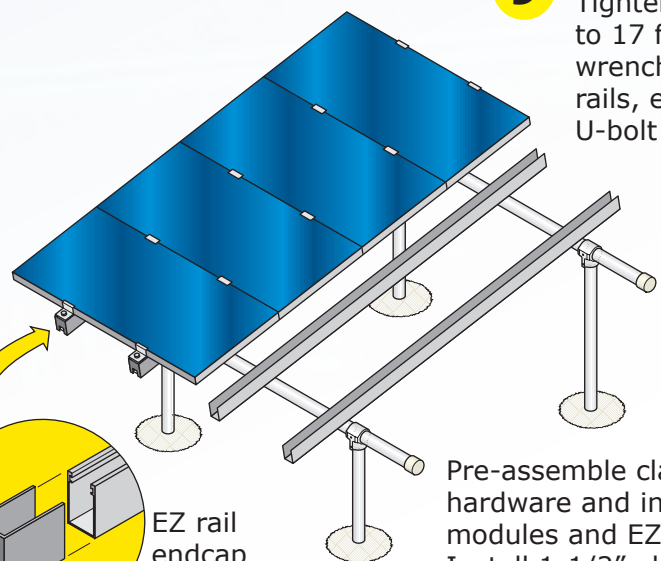
7 Install at least one rail every 10' for proper pipe spacing.



8 Pour or pump mixed concrete into footings



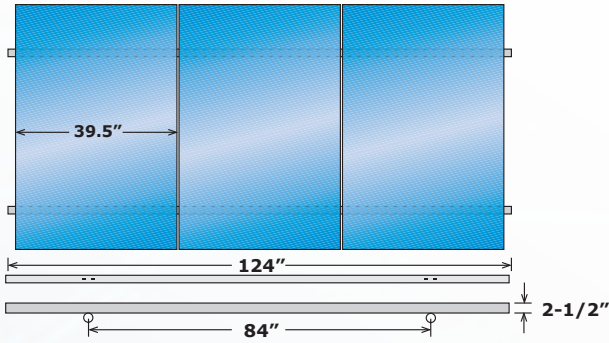
9 Remove grade stakes. Tighten all tee set screws to 17 ft-lbs with torque wrench. Install remaining rails, evenly tightening U-bolt nuts.



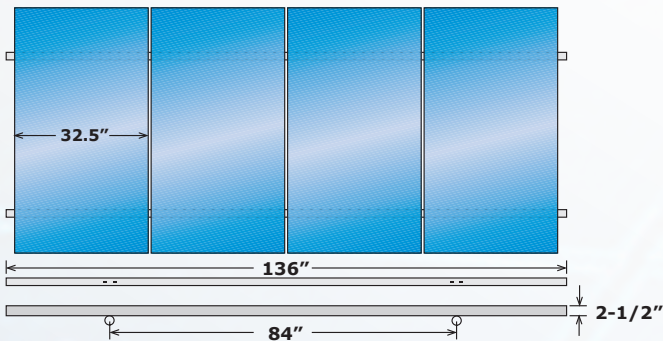
Pre-assemble clamping hardware and install solar modules and EZ rail endcaps. Install 1-1/2" plastic pipe endcaps for schedule 40 pipe as necessary.

10 Completed installation.

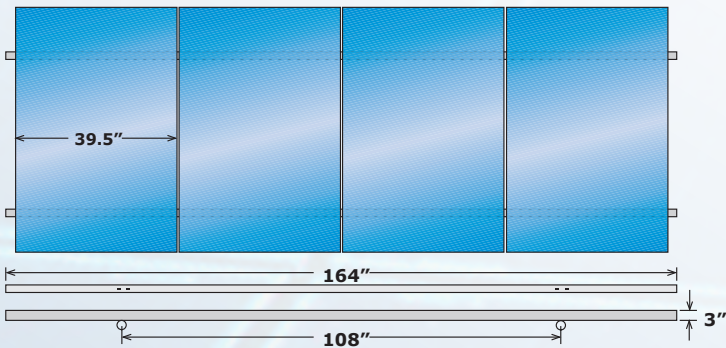
124" x 2-1/2" Support Rail
Supports up to (3) 39.5" Wide Modules



136" x 2-1/2" Support Rail
Supports up to (4) 32.5" Wide Modules

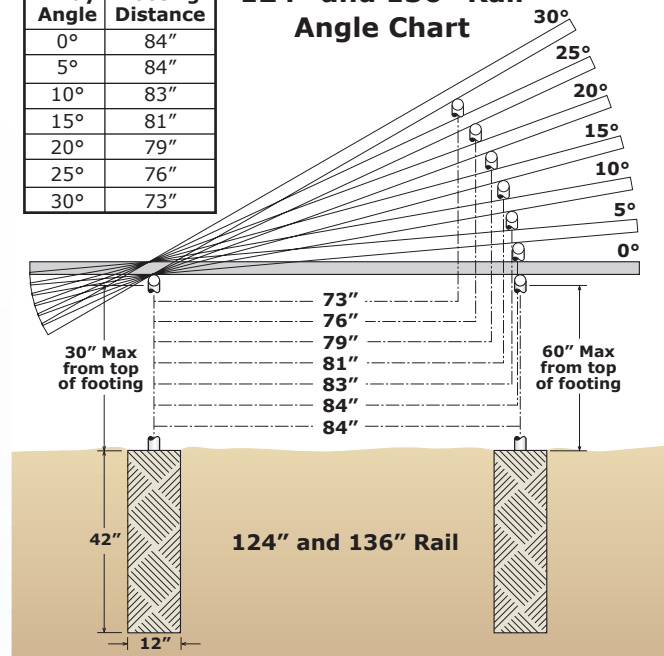


164" x 3" Support Rail
Supports up to (4) 39.5" Wide Modules

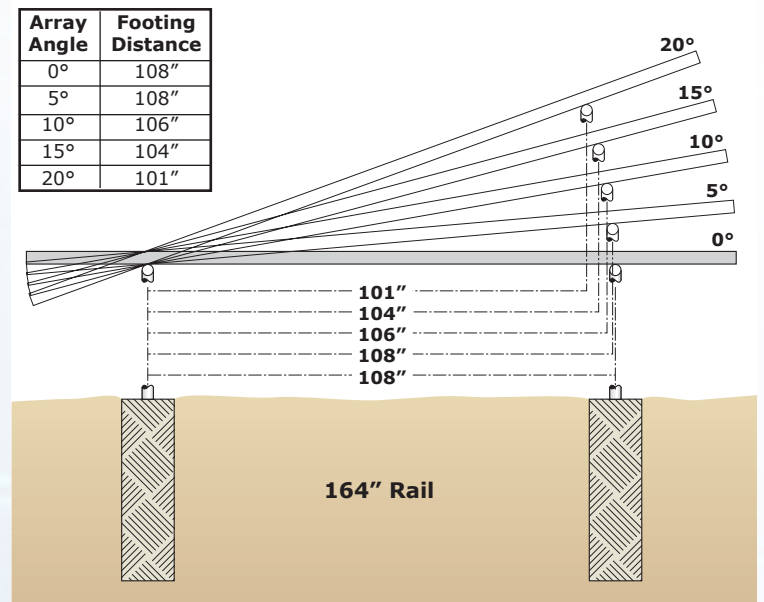


Array Angle	Footing Distance
0°	84"
5°	84"
10°	83"
15°	81"
20°	79"
25°	76"
30°	73"

124" and 136" Rail Angle Chart



164" Rail Angle Chart



GroundTrac® Rail Sizes	124" x 2-1/2"	136" x 2-1/2"	164" x 3"
Number of Modules	(3) 39.5" wide modules	(4) 32.5" wide modules	(4) 39.5" wide modules
Lateral footing span (max) non-snow load	10'	10'	8'
Lateral footing span (max) 30 lb/ft ² snowload	6'	6'	Not snowload rated
Front to back footing spacing	See Angle Chart	See Angle Chart	See Angle Chart
Pre-slotted rails at:	84" on Center	84" on Center	108" on Center

Photo courtesy: Accurate Air & Electric

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