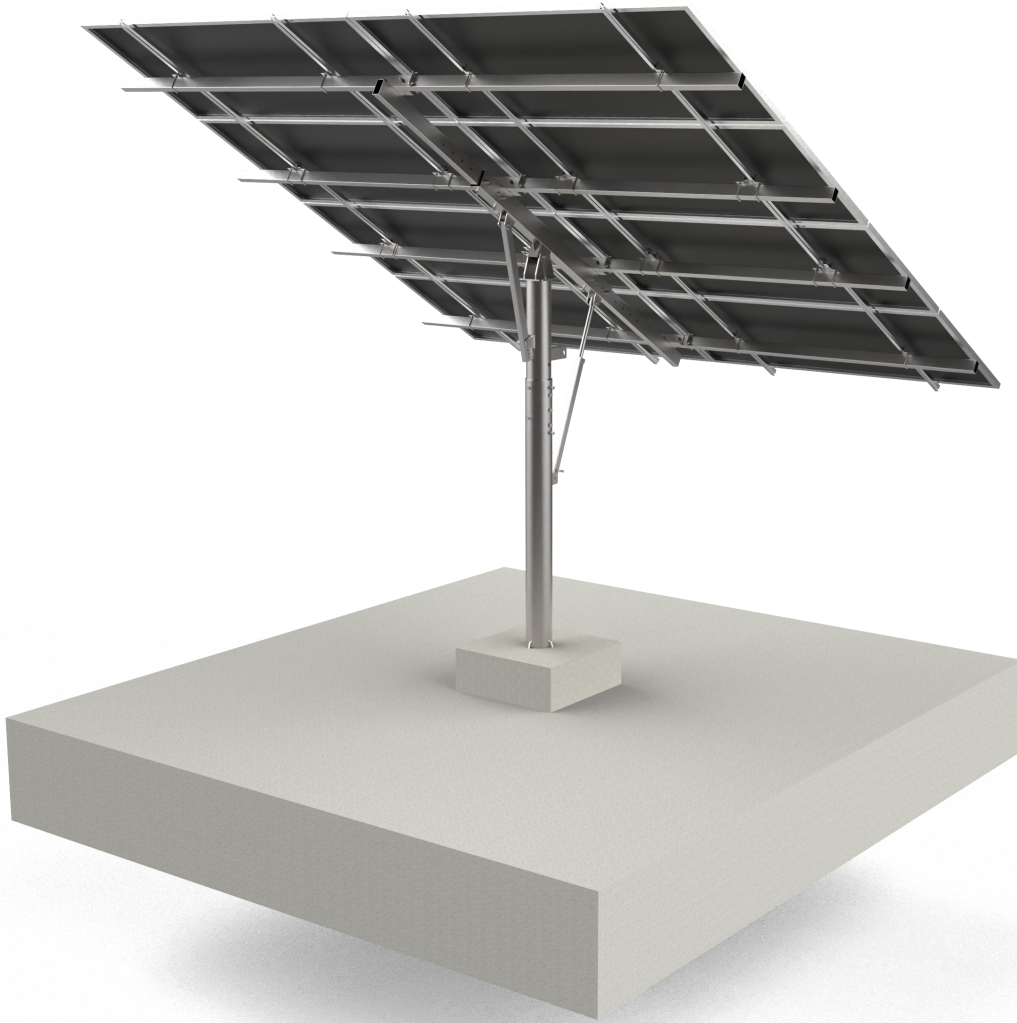




Installation Instructions for Solar Pole Mount

🇨🇦 SPM26-12 PROUDLY DISTRIBUTED IN CANADA



(The picture is for reference only. Please refer to the actual product.)



Scan for the digital install guide
rsbcglobal.com/SPMmanual

1.Tools



Tape Measure



Box Level



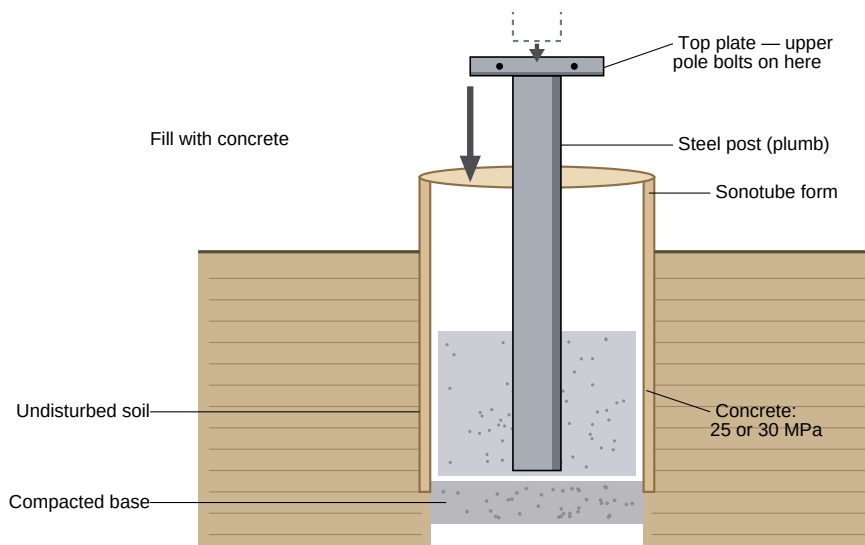
Impact Driver

Impact Sockets
M6–M18Impact Driver Bits
13, 17, 19, 22, 24, 27 mm

Torque Wrench

2.Foundation Installation

Stand the post in the hole and pour in the concrete. As you pour, poke the concrete to remove air pockets. Hold a level on the post and check two sides (90° apart). Keep adjusting until the post is straight up and down. Brace the post so it can't move until the concrete has set for at least 24 hours.



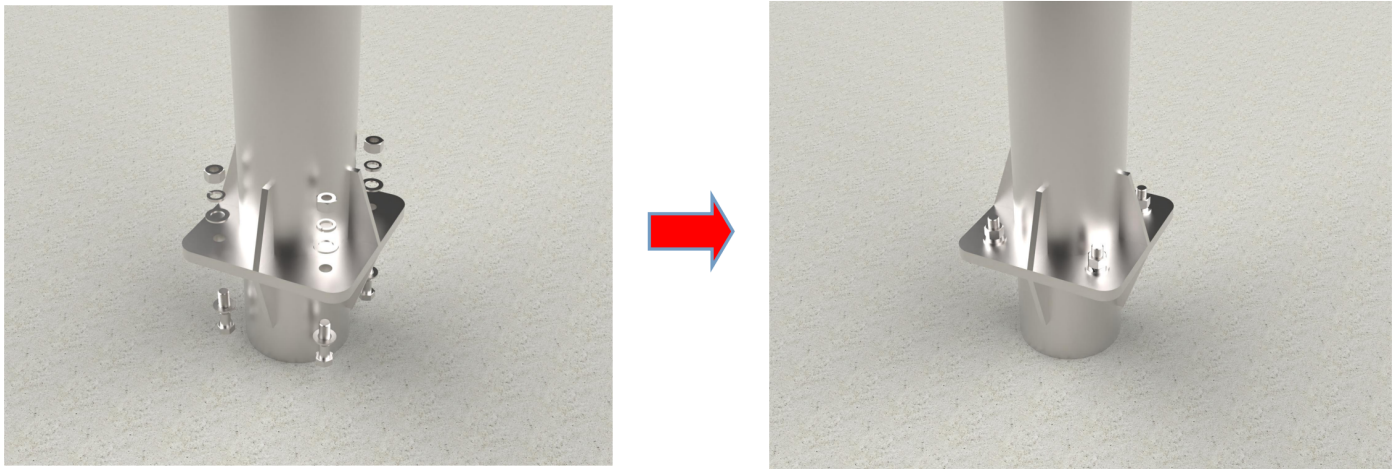
3. Install the structure

A. Join the Post Sections



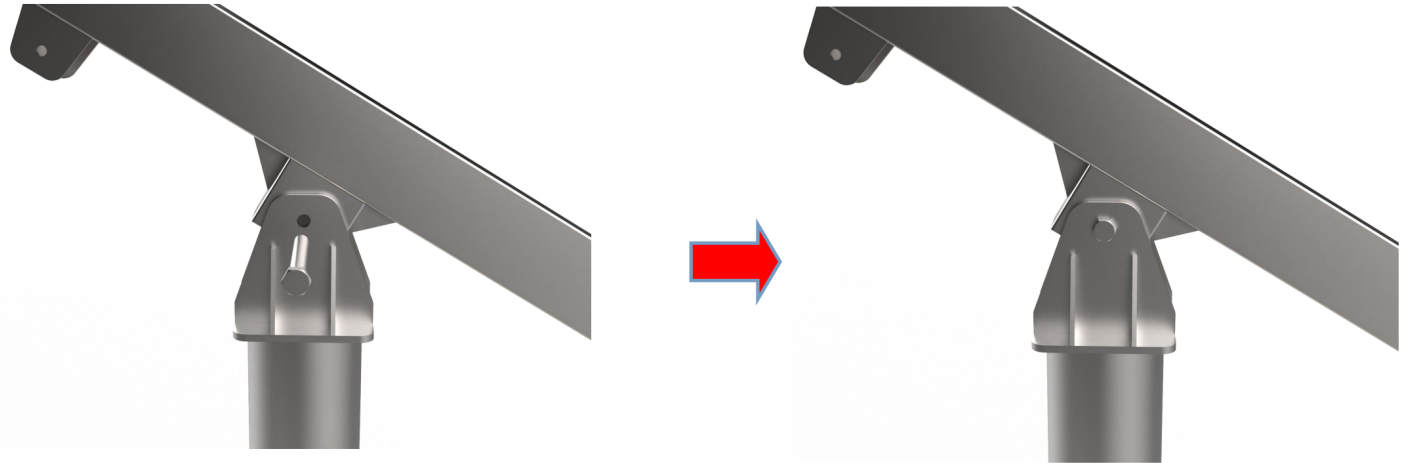
3× M16×220 + 8× M12×40 bolts.
Stack each: bolt, 2 washers,
spring washer, nut.
Sockets: 24 mm / 19 mm.

B. Bolt the Base Bracket to the Foundation



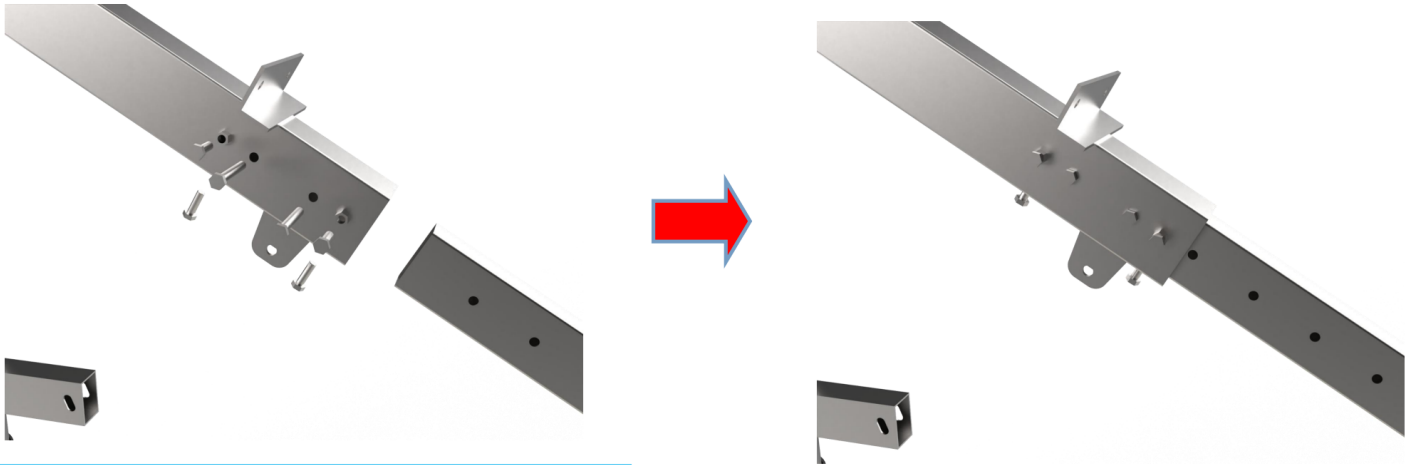
Bolt the base bracket to the
foundation pile: 4× M18×60.
Socket: 27 mm.

C. Install the Main Beam & Posts



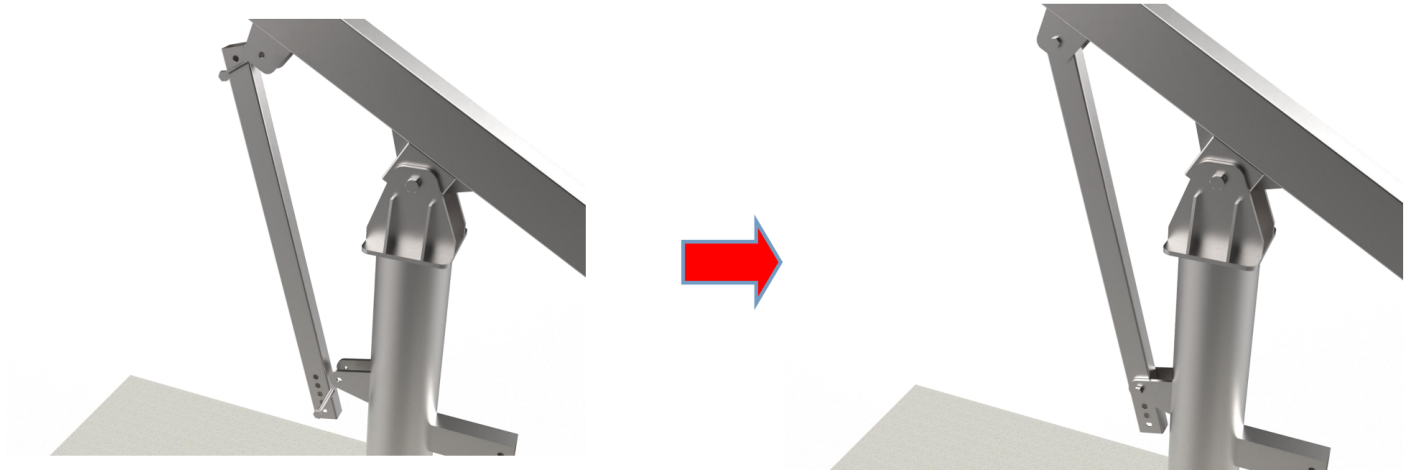
1× M16×140 bolt. Bolt + 2
washers + spring washer + nut.
Socket: 24 mm.

D. Install the Secondary Beams



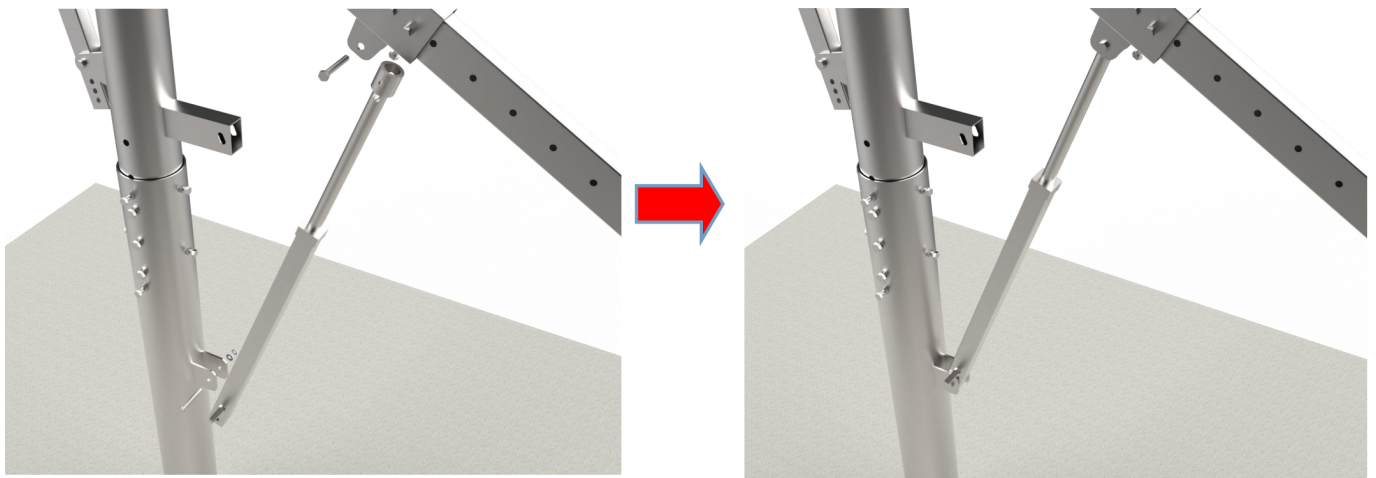
2× M12×110 + 6× M12×40 bolts.
Repeat on the other end.
Socket: 19 mm.

E. Install the Diagonal Brace

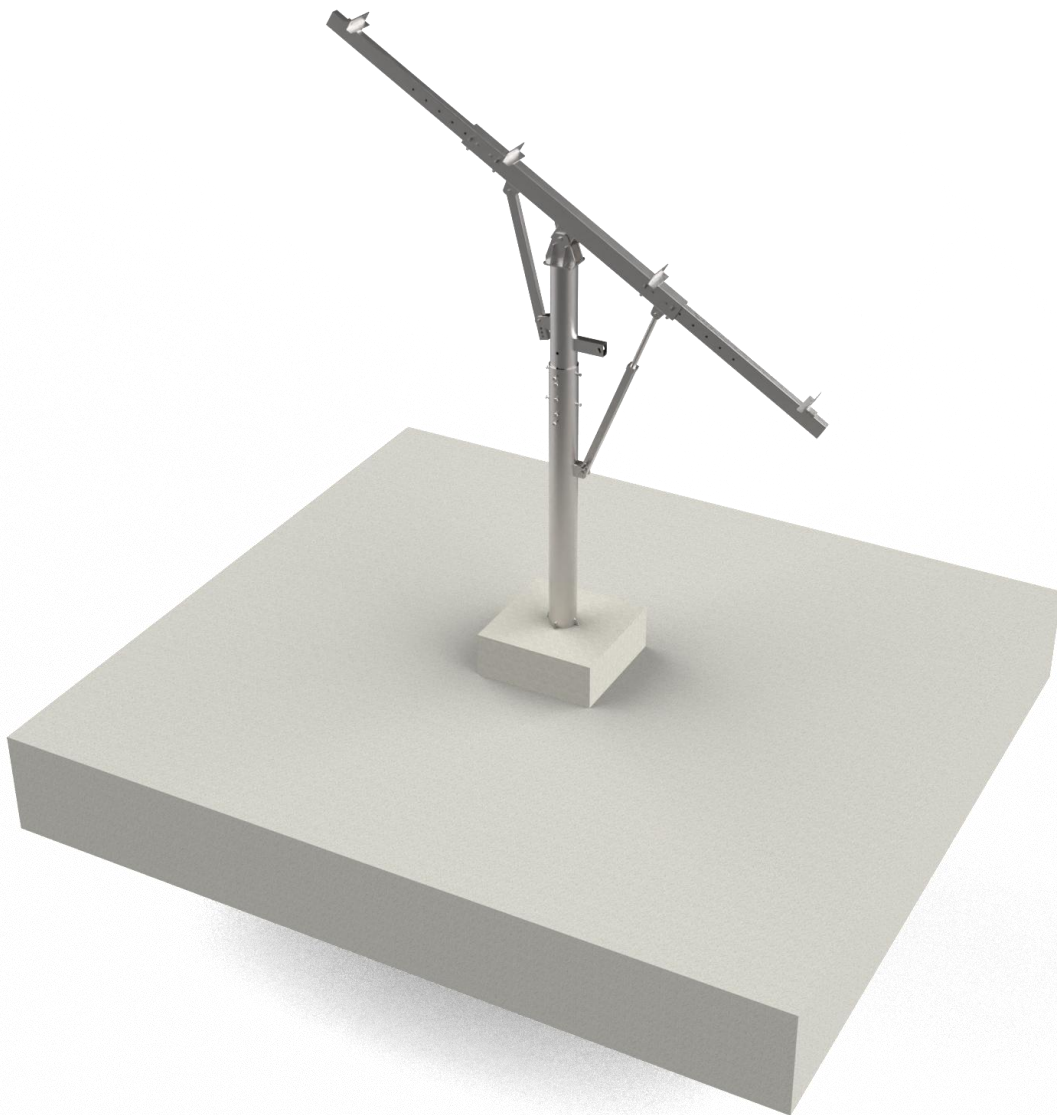
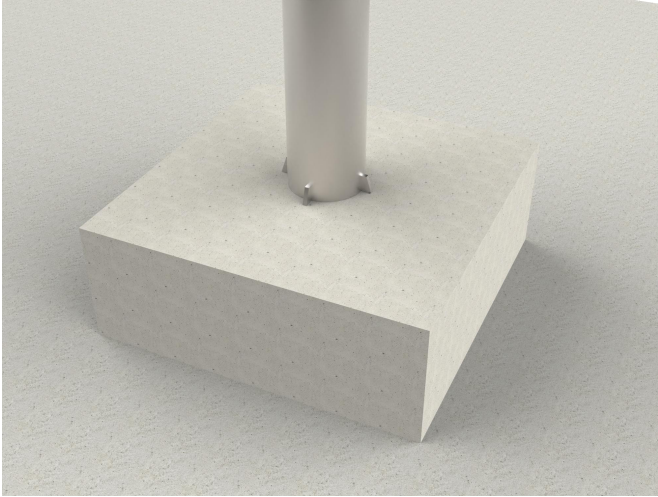


2× M12×90 bolts.
Socket: 19 mm.

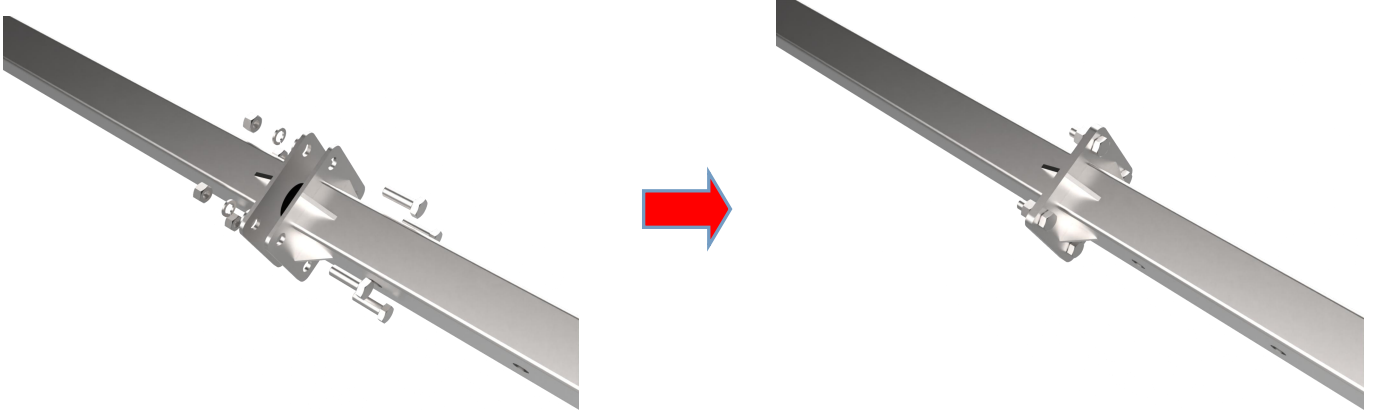
F. Install the Adjustable Strut



Set the strut to length; cap the top
with the round sleeve. Bolt each
end: 1× M14×100. Socket: 22 mm.

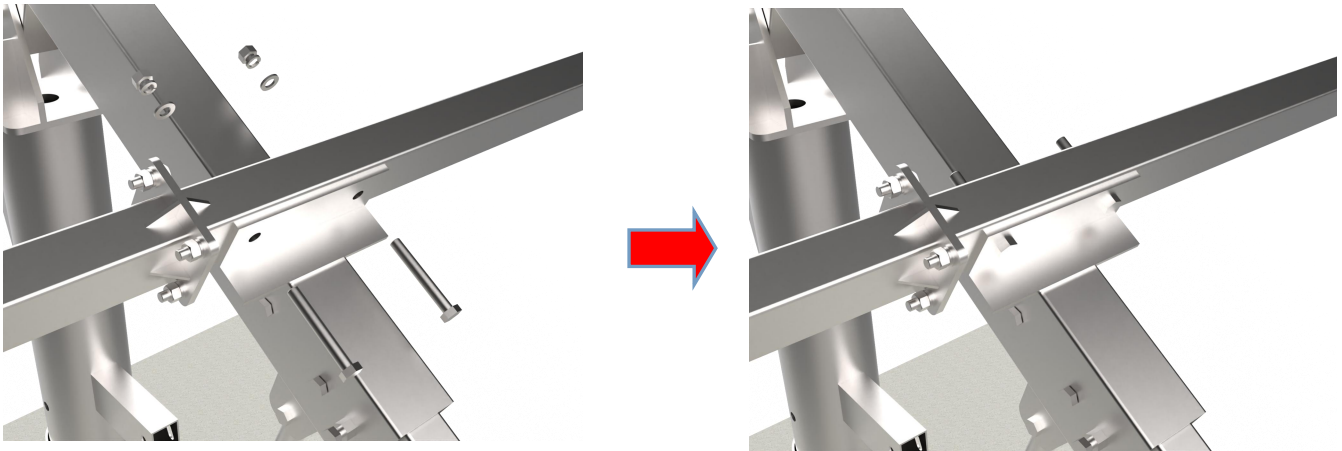


G. Connect the Steel Rails

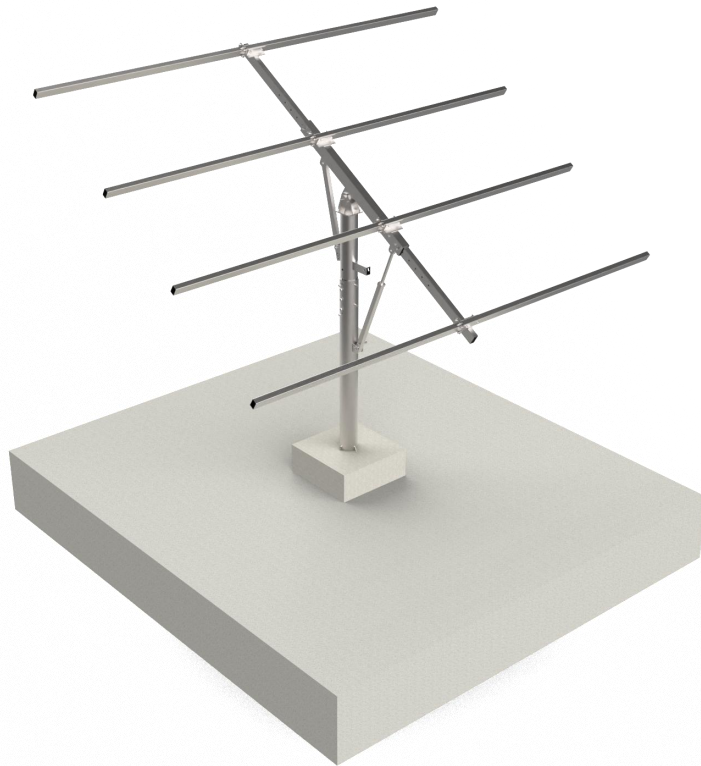


Join the 2200 mm + 2500 mm rails:
4× M10×30 bolts. Socket: 17 mm.

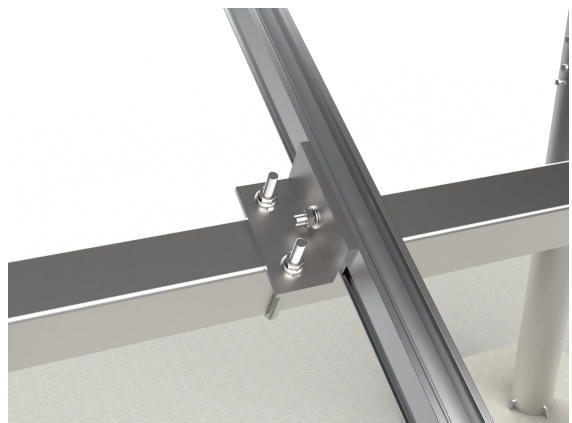
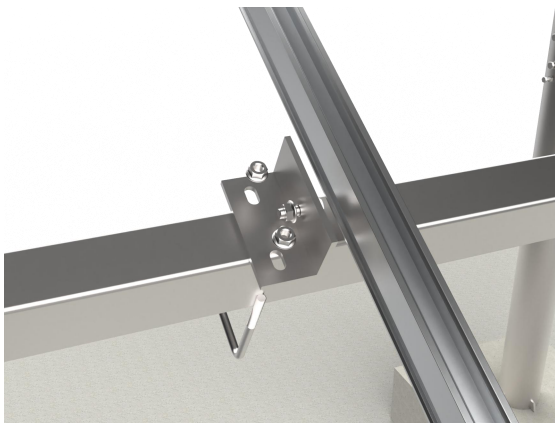
H. Fasten the Steel Rails



2× M12×90 bolts.
Socket: 19 mm.



I. Install the Pegasus Aluminum Rails



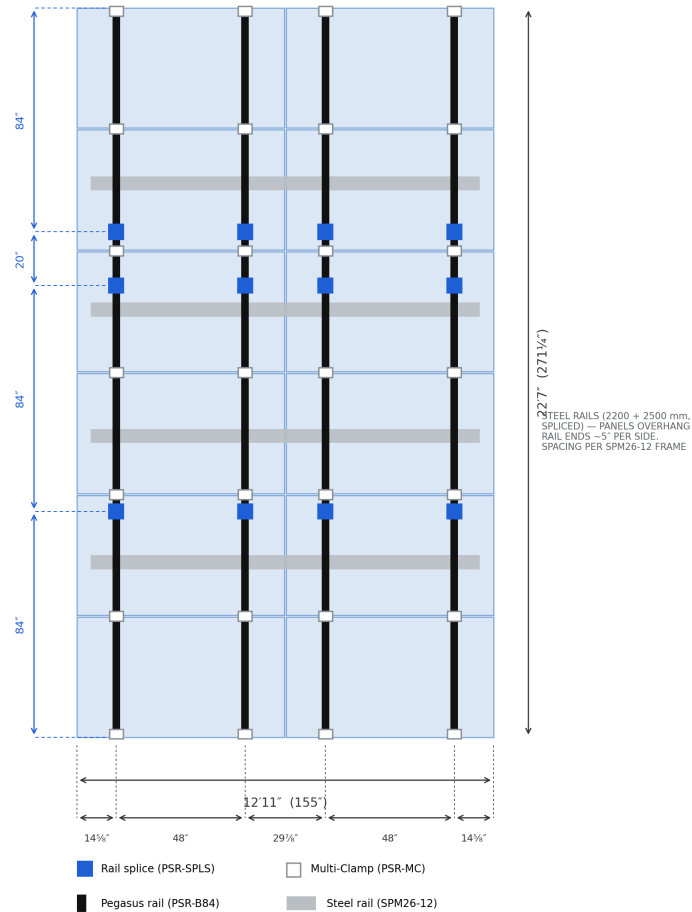
Secure the Pegasus aluminum rails with T-bolts. Add rail splices as needed to suit the panel layout.

J. Pegasus Rail Layout — 12-Panel Configuration

Twelve 77.2" × 44.65" modules (e.g. Longi LR8-54HGBB-500W), LANDSCAPE, 2 wide × 6 high.

4 VERTICAL RAIL RUNS — EACH: 84" + 84" + 20" + 84"

SPLICES AT 84", 168" AND 188" FROM THE BOTTOM END — SAME ON ALL RUNS



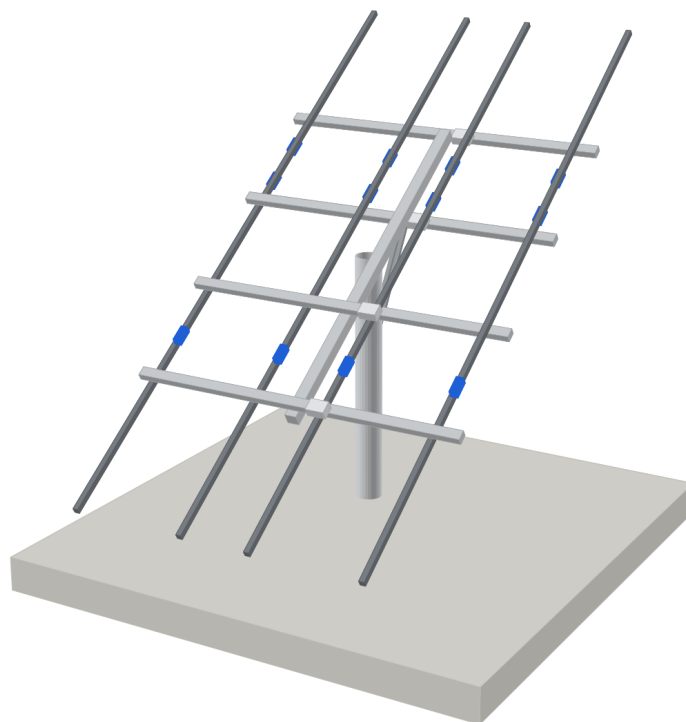
Rail schedule (per vertical run — 4 identical runs, bottom to top)

Position from BOTTOM end of run	Piece	Part
0" – 84"	Full rail	PSR-B84 (84")
84" – 168"	Full rail	PSR-B84 (84")
168" – 188"	20" cut piece	cut from 13th PSR-B84
188" – 272"	Full rail	PSR-B84 (84")

Splices at 84", 168" and 188" from the bottom end — same on all four runs.

12 × PSR-SPLS bonded structural splices total. One 84" rail cut into four 20" pieces supplies the short section for every run (13 rails total).

J-1. Mount the Rails Across the Steel Rails

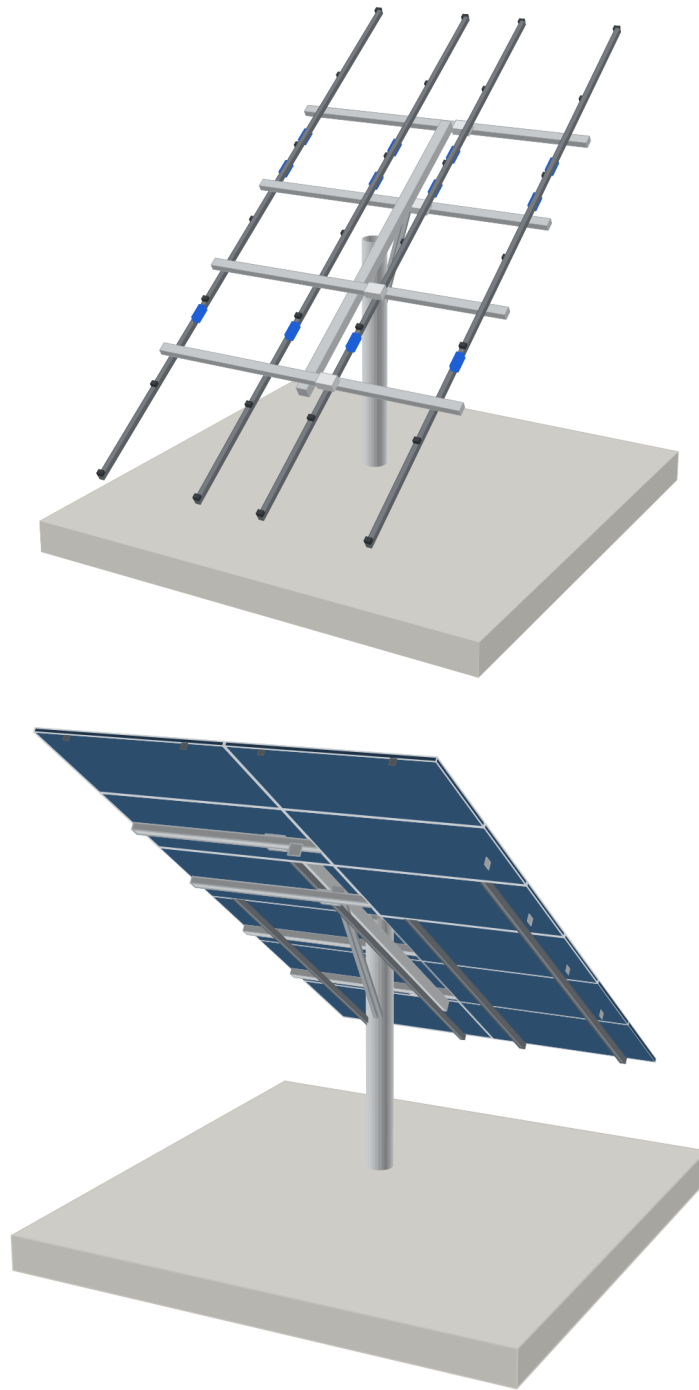


1. Stand the four runs vertically (up-slope), crossing all four steel rails at the positions shown on the layout: 14-5/8" in from each module column edge, 48" between the two rails of each column.
2. Bolt every rail-to-steel crossing with an L-bracket and dovetail T-bolt (Step I) — 4 brackets per run, 16 total.
3. Install the PSR-SPLS splices at 84", 168" and 188" before tightening the brackets. Keep every splice clear of the steel-rail brackets.
4. Fit multi-clamps at the 7 marked heights per run; leave loose for panel install.
5. Cap all eight rail ends (PSR-CAP).

Parts used in this section

Part	Description	Qty
PSR-B84-US	Pegasus Rail 84" (12 full + 1 cut into 20" pieces)	13
PSR-SPLS	Bonded structural splice (3 per run)	12
PSR-MCB-US	Multi-Clamp mid/end 30–40 mm (7 per run)	28
PSR-CAP	End cap (2 per run)	8
PSR-MLP	MLPE mount (1 per module)	12
PSR-BBOX / PSR-NSJ	BondBox / North-South bonding jumper	1 / 1
PIF2-BDT T-bolts	Dovetail T-bolts, rail-to-steel brackets (4 per run)	16

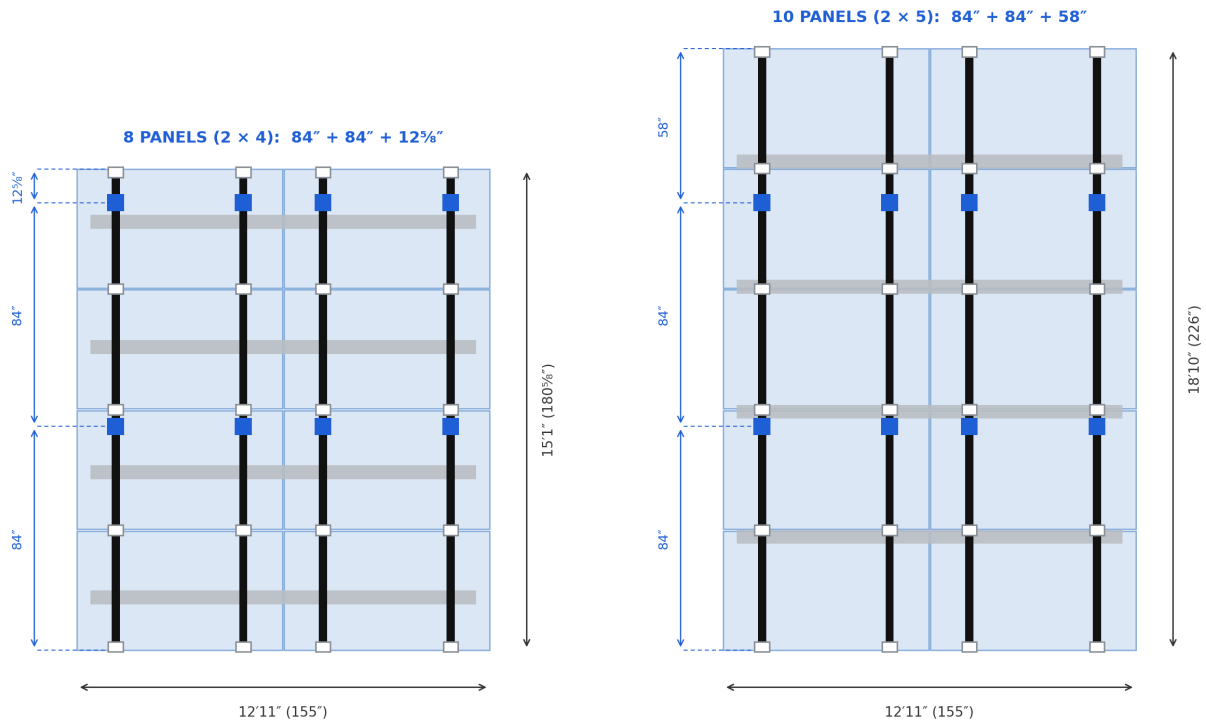
J-2. Set the Panels



Set panels LANDSCAPE, row by row, bottom row first — 2 modules per row, 6 rows. Clamp heights fall at each row boundary (45.3" row pitch). Torque clamps and T-bolts to the values in Section 5. Check that all bolts are tightened properly.

J-3. Alternate Configurations — 8 and 10 Panels

Same four rail runs and rail positions as the 12-panel layout — only the run length, splice positions and row count change. Modules landscape, 2 wide.

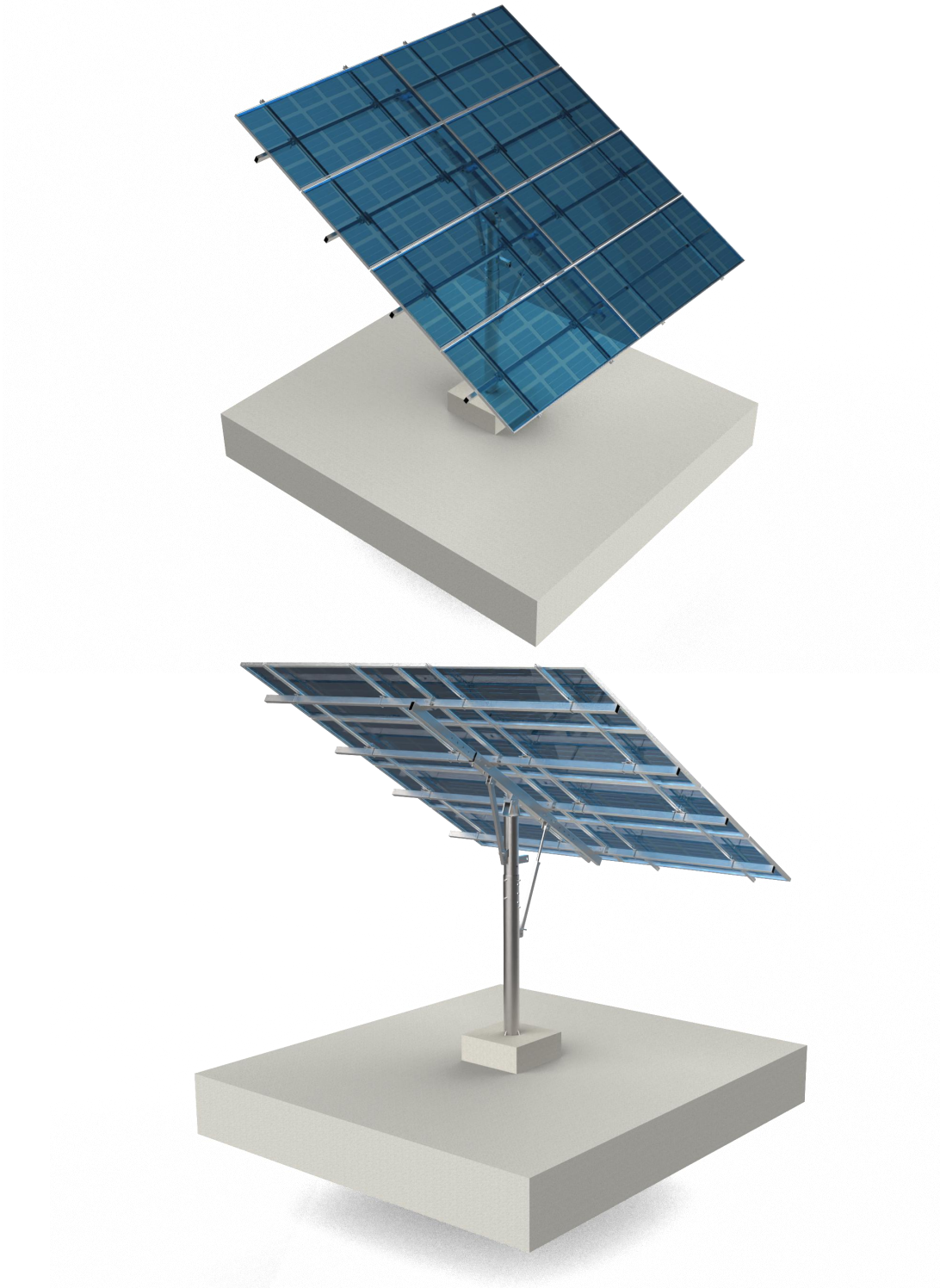


Hardware by configuration (4 vertical runs in all cases)

Configuration	Run build (bottom to top)	Rails	Splices	Clamps	Caps
8 panels - 2 x 4 - 15'1" tall	84" + 84" + 12-5/8" (splices @ 84", 168")	9	8	20	8
10 panels - 2 x 5 - 18'10" tall	84" + 84" + 58" (splices @ 84", 168")	12	8	24	8
12 panels - 2 x 6 - 22'7" tall	84" + 84" + 20" + 84" (splices @ 84", 168", 188")	13	12	28	8

Cutting: 8-panel - one 84" rail yields all four 12-5/8" pieces (9 rails total).
 10-panel - cut one 58" piece from each of four rails (12 rails total).
 Keep the array centred on the steel rails; all splices land between steel rails.

4. Install the solar panels



Check that all bolts are tightened properly.

5. Bolt Torque & Socket Sizes

(hot-dip galvanized bolts)

Bolt Size	Socket Size	Torque (N·m)
M8	13 mm	18–26
M10	17 mm	38–48
M12	19 mm	65–85
M14	22 mm	120–150
M16	24 mm	165–210
M18	27 mm	240–310



Angle Adjustment: Remove the bolt from one end of the diagonal brace. Adjust the telescopic rod to the desired position. Then reinstall and tighten the bolt on the diagonal brace.