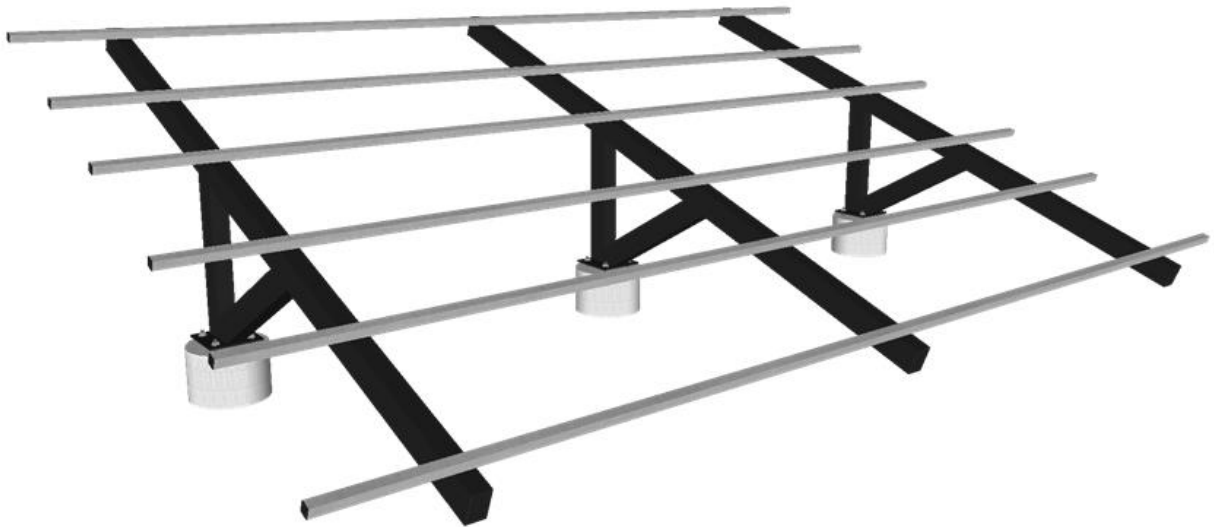




NuSolar PV Ground Mount Kits

- 3P20-9 / 3P20-10 / 4P20-9 / 4P20-10



Installation Manual

NuSolar PV Ground Mount

- 3P20-9 / 3P20-10 / 4P20-9 / 4P20-10

Components:

	3P20-9, 3P20-10	4P20-9, 4P20-10
Component	Quantity	
6" X 4" Rect. Tube Epoxy Finished Steel Truss Post	3	4
12' 2" X 2" Square Tube Galvanized Steel Rail	12	12
10' 2" X 2" Square Tube Galvanized Steel Rail	0	6
2" X 2" Plastic End Caps	12	12
Pier Foundation Bolt Template	1	1
4 – 5/8" Dia. X 14" Heavy Hex Bolts	12	16
Box of #14 x 3" Self-Drilling Screws	1	1
Box of #12 x 2" Self-Drilling Screws	1	1
5/8" Nuts & Washers	24	32

Layout:

	LAYOUT			
MODEL #	# OF MODULES	ORIENTATION	PIER SPANS(ft.)	RAIL CANTILEVER(in.)
3P20-9	18	3X6 PORTRAIT	9'	18"
3P20-10	21	3X7 PORTRAIT	10'	20"
4P20-9	27	3X9 PORTRAIT	9'	18"
4P20-10	30	3X10 PORTRAIT	10'	20"

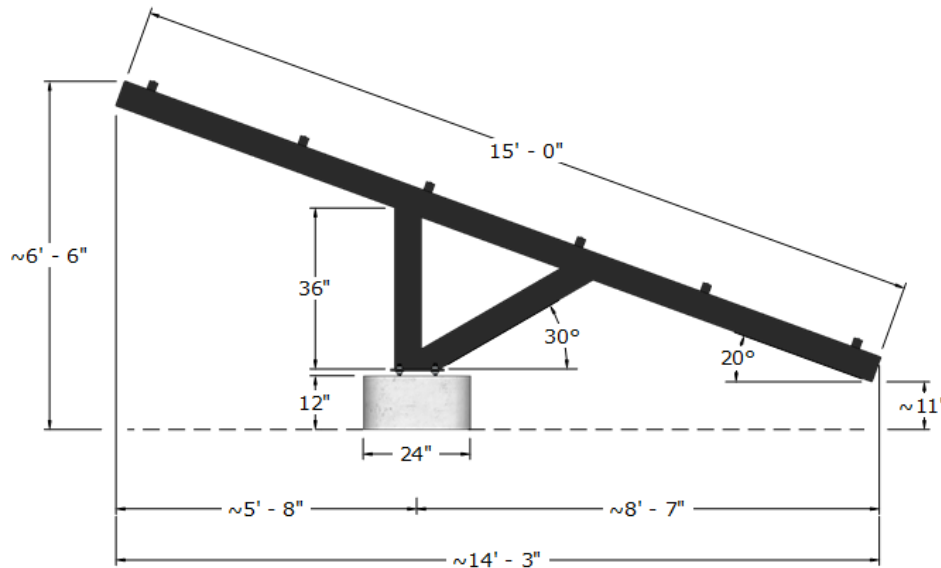
Sizing:

	SYSTEM SIZE (W)					
MODEL #	(260W)	(270W)	(280W)	(285W)	(300W)	(310W)
3P20-9	4680	4860	5040	5130	5400	5580
3P20-10	5460	5670	5880	5985	6300	6510
4P20-9	7020	7290	7560	7695	8100	8370
4P20-10	7800	8100	8400	8550	9000	9300

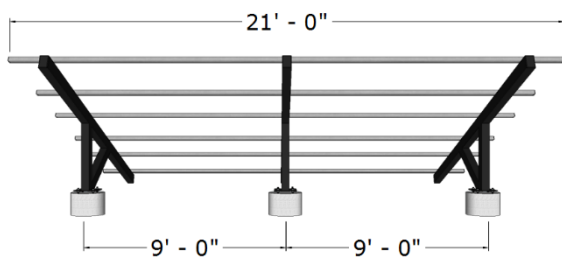
NuSolar PV Ground Mount

- 3P20-9 / 3P20-10 / 4P20-9 / 4P20-10

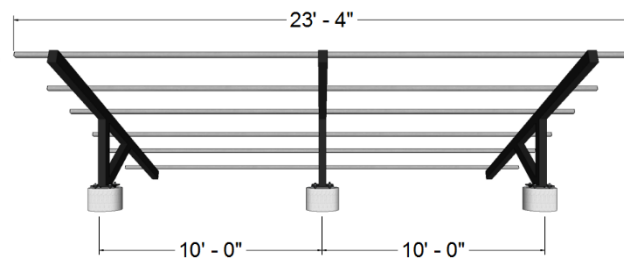
General Dimensions:



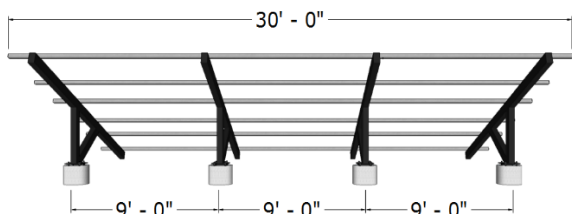
3P20-9



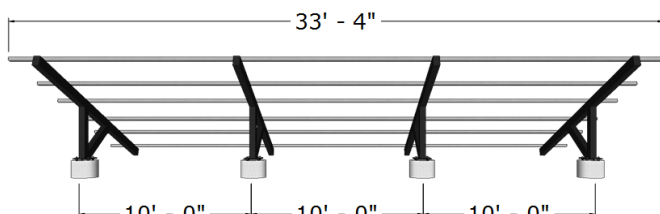
3P20-10



4P20-9



4P20-10



NuSolar PV Ground Mount

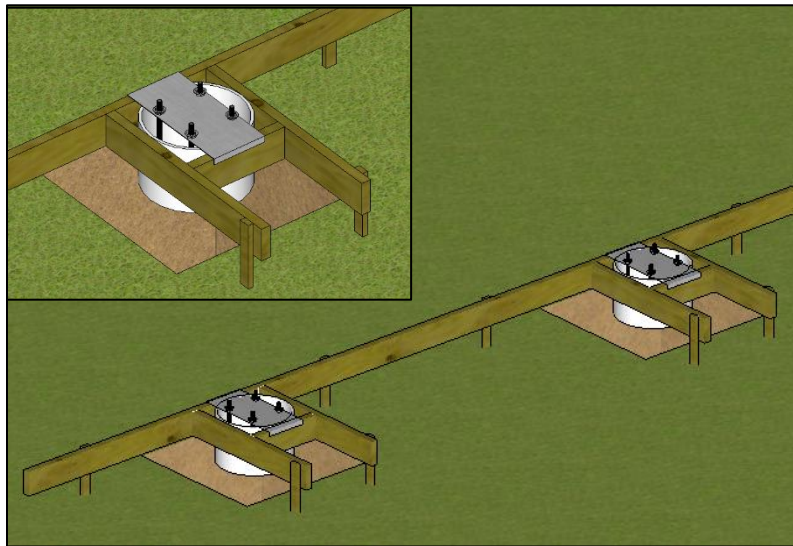
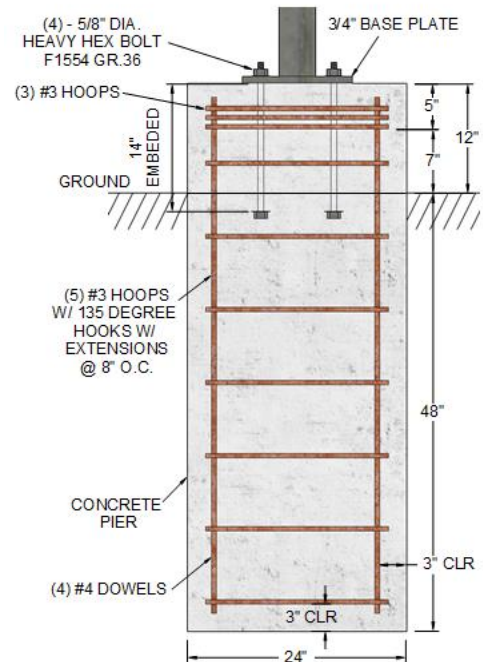
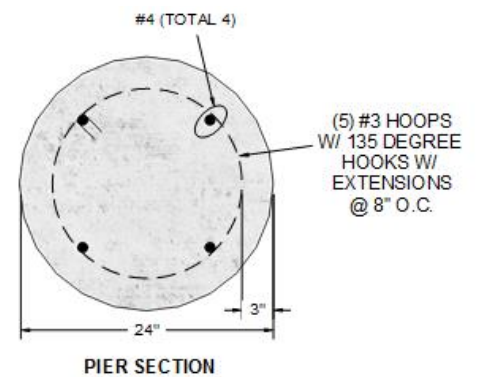
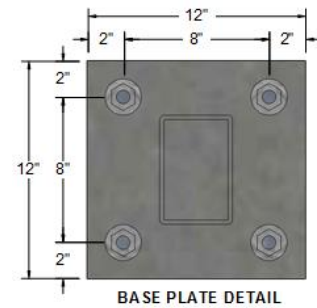
- 3P20-9 / 3P20-10 / 4P20-9 / 4P20-10

Pier Installation

Necessary components not included in Kit:

- 24" Dia. Sonotube Concrete Form
- #4 Dowels & #3 hoops

1. Measure and align pier footing locations.
2. Dig pier footings 2ft Dia. x 4ft deep.
3. Set rebar in footing as shown in diagrams.
4. Cut concrete form to 12in. height* and center on the footing.
5. Place 5/8" Heavy Hex bolts inside the bolt template and onto form.
6. Fill footing and form with concrete.
7. When concrete begins to set remove form.
8. Remove templates and smooth top of concrete with trowel.
9. Re-align bolts with template if necessary.



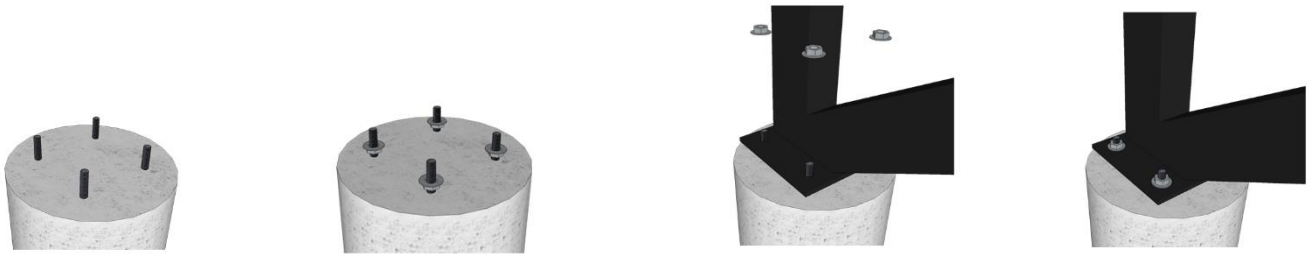
*12" is suggested pier height if on level ground. Piers must be formed such that the bolts are in line and pier heights are level relative to each other.

NuSolar PV Ground Mount

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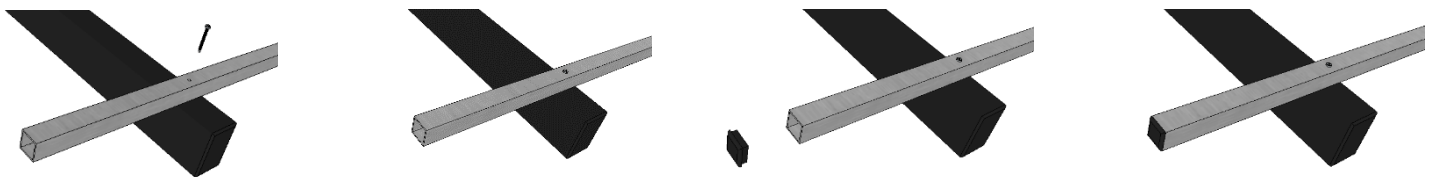
Post Installation

1. Tighten bottom nuts and washers onto pier bolts. Leave about 1" on space between the bottom nuts and top of concrete pier. Do not tighten flush to pier.
2. Set Truss Post on top of pier bolts.
3. Tighten top nuts and washers to top of post base plate.
4. Level and plumb post by raising or lowering each bolt as needed.

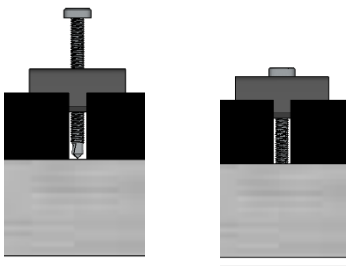


Rail Installation

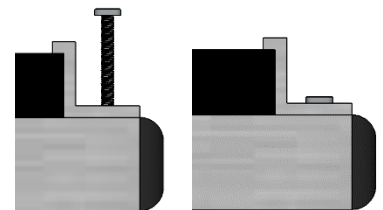
1. Pre-drill rails to match appropriate span. Cut middle rail if necessary. (See Layout Table)
2. Using #14 x 3" Self-Drilling Screws, Screw Rails into truss posts.
3. Cut 2"x2" rail ends after modules are installed. (See rail cantilever section of Layout Table)
4. Insert end caps on the end of rails.



Module Mounting



Secure mid-clamps with #14 x 3" Self-Drilling Screws
Secure end-clamps with #12 x 2" Self-drilling screws



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