

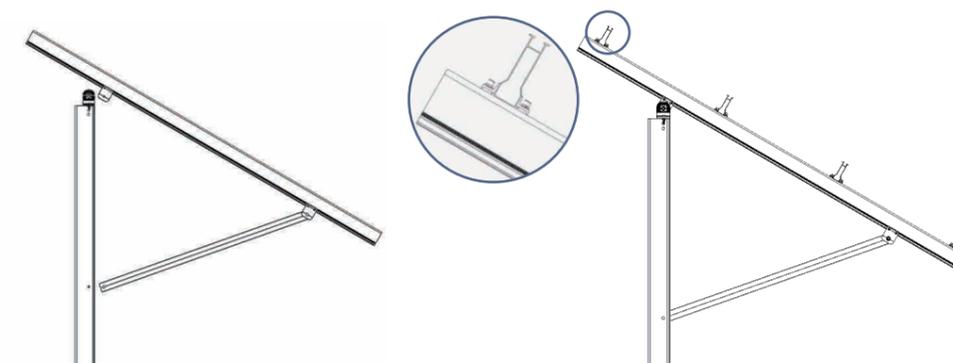


Installation Steps



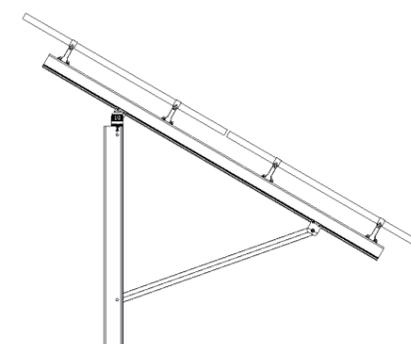
Step 1: Pile the Open Post by Pile Machine

Step 2: Install and adjust the Top Cap

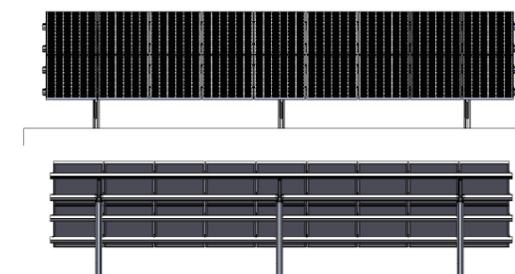


Step 3: Install the Assembly of Beam

Step 4: Install the Rail by Rail Clamp



Step 5: Install the Modules



Finish

Introduction

GS Pile Ground System is applied for large commercial and utility PV systems on non-sandy ground, suitable for both framed and frameless module installation.

In GS Pile Ground System, Open Post can be piled into the ground quickly 1-2 meters by pile machine, and then easily mounting the pre-assembled Al-Beam structure, GS Rail with clamps.

Our mission is to simplify your installation and ensure the structure safety. Grace Solar, your best choice.

Benefits

- ❖ **Easy Installation**
Parts have been highly pre-assembled in the factory to save your installation time
- ❖ **Safety and Reliability**
Structure has been checked and tested strictly to deal with extreme weather conditions
- ❖ **Flexibility and Adjustable**
Smart design reduces the difficulties in the installation on most conditions
- ❖ **10 Years Warranty**
10-years warranty for the material and structure provided by Grace Solar

Technical Information

Install Site	Open Field, non Sandy
Angle of Inclination	0-45°
Structure Height	3m Less
Max Wind Speed	up to 60m/s
Snow Load	1.4KN/m ²
Rail Material	Aluminum Alloy

Post Material	Hot-dip Galvanized Steel Q235
Finishing	Anodized
Adjustability	Post Height Deviation: 10mm
	Post Angle Deviation: 2°
	Post Verticality Deviation: 2°
Pile Driving Depth	1000~2000mm

COMPONENTS

System Overview



1. GS-PG-OP2500

2. GS-PG4-NB27

3. GS-PG-TC02

4. GS-MR-Length

5. GS-MR-SP

6. GS-MR-C60

Item No.	Description
GS-PG-OP2500	Open Post 2500mm

Material: Q235 Steel

GS-PG-TC02	Assembly of Top Cap
GS-PG4-NB27	Assembly of PG Beam, 30deg, 2740 - For module length 1400~1700mm - High pre-assembly
GS-MR-Length	GS MR Rail
GS-MR-SP	GS MR Rail Splice
GS-MR-C60	GS MR Rail Clamp

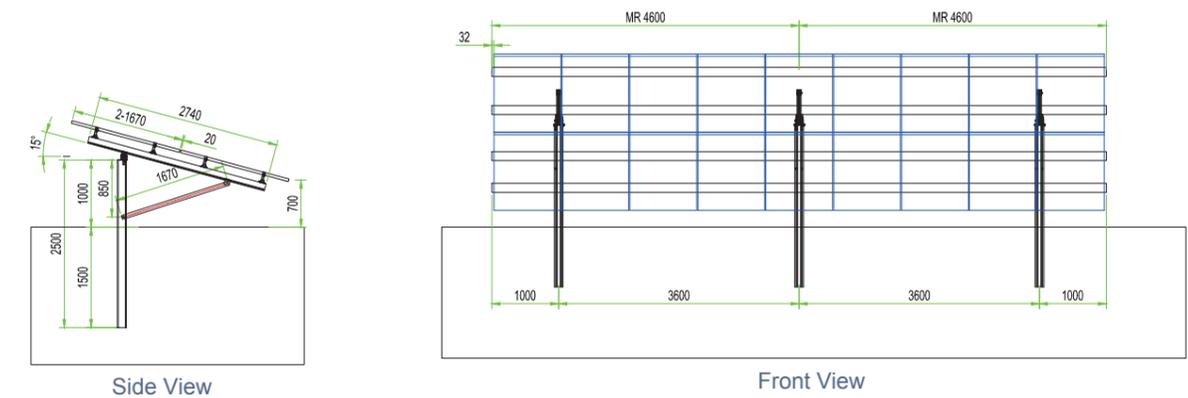
Material: Aluminum Alloy 6005-T5

PROJECT EXAMPLE

Project Information

Solar Panel Size:	1670*992*40mm	Flood Height:	700mm
Tilt Angle:	15 Deg	Wind Speed:	<45m/s
Module Orientation:	Portrait	Soil Condition:	Non Sandy
Unit Array:	2*9	Pile Height:	1500mm

2D Planning Drawing



Components List

Item	Description	Spec.	Qty
GS-MR-4600	MR Rail	4600mm	8pcs
GS-MR-SP	MR Rail Splice	200mm	4pcs
GS-MR-C60	MR Rail Clamp	60mm	24pcs
GS-KIC-F35/40	Inter Clamp Kit	35-40mm	32pcs
GS-KEC-F40	End Clamp Kit	40mm	8pcs
GS-PG4-NB27	Assembly of Support Beam	2740	3pcs
GS-T6060-1670	Tube, 1670	1670mm	3pcs
GS-PG-TC	Aluminum Top Cap	150*120*80mm	3pcs
GS-PG-OP-B2500-850	Open Post 2500	2500mm	3pcs