

APPLICATION

Utility PV plants and commercial solar fields

FOUNDATION
Driven C / I / Pi pile profile selected by soil report and pull-out test

TILT
10/15/20/25/30 deg standard

WIND
Up to 60 m/s



Reliable Structures. Faster Project Review. Global PV Support.

WIND
Up to 60 m/s

SNOW
Up to 1.6 kN/m²

TILT
10/15/20/25/30 deg standard

WARRANTY
12-year product warranty

Design Envelope

Core Specification

Materials / Compliance / Warranty

Apex engineering support: layout drawing, structural calculation basis, optimized BOM, packing list and material documentation.

PROJECT DESIGN INPUT SHEET

Project Design Input Sheet

Site wind profile

Snow zoning

Module datasheet

Corrosion class C3/C4/C5

Soil class / geotech report

Pull-out test

Terrain category

Seismic zone

Engineering Output Definition

Item	Specification
Design load envelope	Wind, snow and seismic basis defined for project review.
MTO / BOM	Material take-off and component list prepared by layout.
Drawing pack	Layout, section/detail drawings and installation reference by order scope.
Foundation schedule	Pile/screw spacing, embedment and section selection reviewed.

Ground Model Focus

Pile/screw embedment, post spacing, rail/beam span, stiffness path and soil pull-out capacity define the structural model.

Engineering calculation entry

Submit design inputs to define load envelope, model assumptions, MTO and drawing pack.

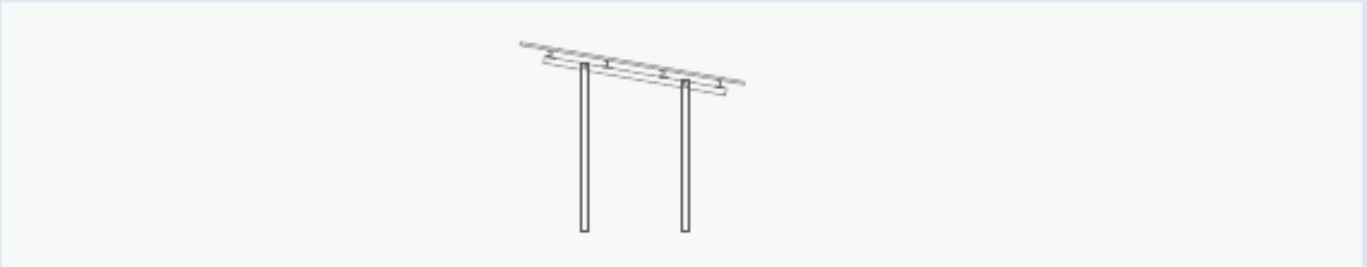
Request Apex EPC review for load envelope, structural assumptions, MTO and drawing pack.

info@apexsolarmount.com | www.apexsolarmount.com

Engineering Technical Controls

Item	Specification
Wind	Up to 60 m/s; gust definition, terrain category and code basis to be confirmed
Snow	Up to 1.6 kN/m2; final by tilt, row spacing, pile spacing and span
Tilt	10/15/20/25/30 deg standard; 35-45 deg optional by project review
Foundation	Driven C / I / Pi pile profile selected by soil report and pull-out test
Pile Range	C100 / C120 / C140 typical; 3.0 / 3.5 / 4.0 / 5.0 mm thickness; 1000-3500 mm review range
Module Envelope	Up to 2500 x 1400 mm review range; module weight and clamp zone by module datasheet
Material	Q235B HDG steel standard; Q355B and >=100 um HDG available by exposure / order scope

Structure



Component Details



Rail
Material :
Steel Q235B
(Hot-Dip Galvanized)



Beam Connector
Material :
Steel Q235B
(Hot-Dip Galvanized)



C-shape Pile
Material :
Steel Q235B
(Hot-Dip Galvanized)



Pile
Material :
Steel Q235B
(Hot-Dip Galvanized)



Inter Clamp Kit
Components :
Inter Clamp
Spring Washer M8
Hexagon Socket Bolt



End Clamp Kit
Components :
End Clamp
Spring Washer M8
Hexagon Socket Bolt

Installation Guide



1
Install the ground screw based on project solution



2
Install inclined Support



3
The installation of Inclined Support is done



4
Installation the Beam



5
Fix the solar module with Inter Clamp Kit & End Clamp Kit



6
Installation is done