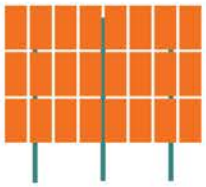
DOUBLE POST SYSTEM

In the quest for clean, sustainable energy, every element counts, and none more so than the foundation of your solar array. At Structura, we've developed the Double Post Mounting System, designed to provide an answer to a crucial question: how do you ensure your solar installation stands the test of time and environmental rigors? This system is your key to superior stability, particularly in regions with high wind speed and rain loads. When confronted with the need for a resilient solar mounting solution that accommodates larger panels and challenging conditions, look no further. The Structura Double Post Mounting System offers the promise of unwavering performance, enabling you to maximize your solar project's efficiency and lifetime.

Doubling Down on Reliability

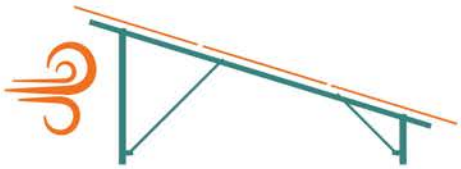
Investing in a Double Post Mounting System is akin to doubling down on the reliability of your solar installation's structural integrity. These systems, with their innovative design, excel in load-bearing capacity. They achieve this through optimized load distribution, increased moment resistance, and an efficient weight-to-strength ratio. By evenly distributing forces, they minimize localized stress, ensuring a longer lifespan for your solar installation. Additionally, the enhanced moment resistance enhances the system's suitability for regions with demanding environmental conditions, like high wind loads or heavy rainfall. Furthermore, these systems broaden the horizon of foundation choices, making economical and secure options like driven piles or screw piles viable. The result? A solar mounting system that not only performs exceptionally well but also offers cost-effective and reliable solutions for your solar project.

3P/6L



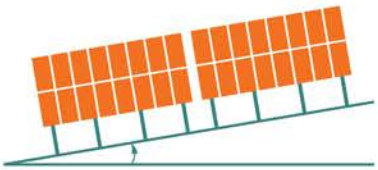
Up to 3 modules in portrait or 6 in landscape

200 km/h



Tested to withstand wind speed up to 200 km/h

UP TO 10°



Engineered for E/W terrain slope < 10° & N/S < 25°

DOUBLE POST SYSTEM

TECHNICAL SPECIFICATIONS

MATERIAL	
Foundation	Steel, Galvanized to G90 or up to G235 for Corrosive Environments
Structural Material	Steel for Rafter, Purlins, Girder, with Zinc-Aluminium-Magnesium Alloy Coating or HDG/GP/POSMAC
Fixing Elements, Screws	SS304, Zinc-Flake Coated Steel, Aluminium 6063
Module Clamps	Aluminium 6063

DESIGN	
Foundation Options	Tailored based on soil analysis: cement pier, driven pile, anchor bolts, cement ballast
Modular Design	Customizable to Project Requirements, Optimized for Efficient Installation
Supported Module Types	All market-available modules, including bifacial & thin films

MODULE ATTACHMENT	
Module Type	Framed (standard), Bifacial (standard), Frameless (additional horizontal rail)
Attachment Method	Direct module bolt or top clamp

MODULE CONFIGURATION	
Landscape Format	Up to 12 x 6 modules
Portrait Format	Up to 12 x 3 modules

WIND LOAD AND TERRAIN TOLERANCE	
Wind Load Resistance	Tested to withstand wind speed up to 200 km/h
Terrain Slope Tolerance	East/West Inclination: Up to 10 Degrees | North/South Inclination: Up to 25 Degrees

WARRANTY	
Structural Warranty	15 years

STRUCTURAL ANALYSIS	
Geotechnical Analysis	Site-specific for precise foundation design
Structural Analysis	Based on Indian structural codes and standards (e.g., IS 800, IS 875 for loads, IS 456 for materials) and additional or corresponding country-specific standards
Component Verification	FEM calculations for all construction components
Vibration Simulations	(Optional) Available for wind force assessment

ON-DEMAND SERVICES	
Foundation Services	Comprehensive geotechnical investigation, pull-out tests, corrosion testing, etc.
Design & Engineering Services	Feasibility studies, site layout optimization, detailed structural analysis, etc.
Installation Services	Available upon request for seamless project execution