

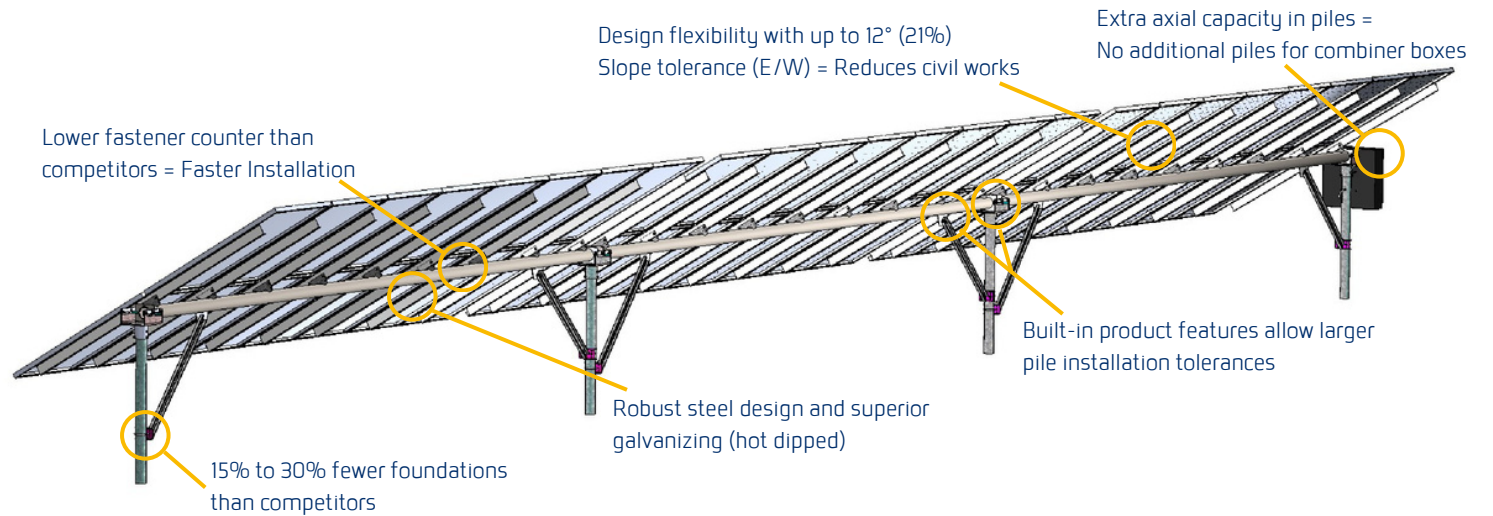


Phlegon® Fixed-Tilt Racking Solutions

Less Piles, Less Hardware, More Productivity

Ultimate Time-Saver Built to Endure

PHLEGON® FIXED ground-mount racking system is an innovative solution designed for evolving solar PV assets, including bifacial modules. Engineered with exceptional material strength and corrosion resistance, PHLEGON® FIXED excels in challenging terrains and corrosive conditions. The system incorporates pile-sharing and large pile span concepts, reducing installation costs and time. Combined with our Engineering, Procurement, and Construction services, we deliver the lowest cost per kilowatt-hour. This streamlined solution is ideal for cost-effective installations in tough climates, challenging terrains, or high-labor cost markets. Our kits, featuring hot-dipped galvanized steel, require fewer piles and less hardware, optimized by local engineers for various site conditions. PHLEGON® FIXED's high slope tolerance minimizes civil works, while its large pile installation tolerances keep projects on schedule.



Design	
Orientation	2-module portrait (optimized for bifacial) 3 or 4-module landscape
Tilt Angle	5° - 45° (custom tilts can be accommodated)
Slope Tolerance	12° (21%) East-West slope
Pile Tolerance	+/- 2" (51mm) E/W and N/S ; 1.5° plumbness
Wind Speed	Up to 140 mph (225km/h)
Snow Load	Up to 50 psf
Module	Framed 60 Cell & 72 Cell
Module Mounting	Direct Bolt to Frame (bonded connection)
Engineering	PE stamped drawings and calculations
Warranty	20 years

Materials and Certification	
Hardware	High-strength steel, Grade 5
Racking Structure	Hot-rolled steel and cold-formed steel (rails)
Corrosion Resistance: Structure Module Rails Hardware	Hot-Dipped Galvanized ASTM A123 Pre-Galvanized ASTM A653 G90/G140/G235 Magni-coated
Code Compliance	Structural calculations (wind, snow, seismic) as per local building code.
Wind Tunnel Testing	Report by RWDI Third-Party Testing Laboratory
Certifications	UL 2703 CSA LTR AE-001:2012 (CAN) -Intertek



Foundation Options

Helical
Soft soil / clay
freeze/ thaw cycles

Ground Screw
Dense soils
Sites w/ cobble

Ballasted
Landfill or hazardous conditions

Micro Piles
Concrete footings, boulders, / bedrock

Driven I-Beam
Locations with no freeze / thaw cycles

Tailored Integrated Solutions

Our one-stop shop for engineering, procurement and installation services means working with one partner under one contract. Even better, we can take care of your civil and electrical works as well. Whether you are a developer looking for a turnkey package, or a general contractor seeking a mechanical partner, GOLDBECK SOLAR customizes overall solutions to match your energy yield, timing, and cost objectives. Our commitment is to provide flexible solutions that simplify contracting and execution, reduce timelines, and ultimately deliver the lowest cost per kWh for utility-scale PV projects.



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January 2024