SOLAR PANELS PLUS

www.solarpanelsplus.com
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Non-penetrating Flat Roof Mounting System

Key Benefits

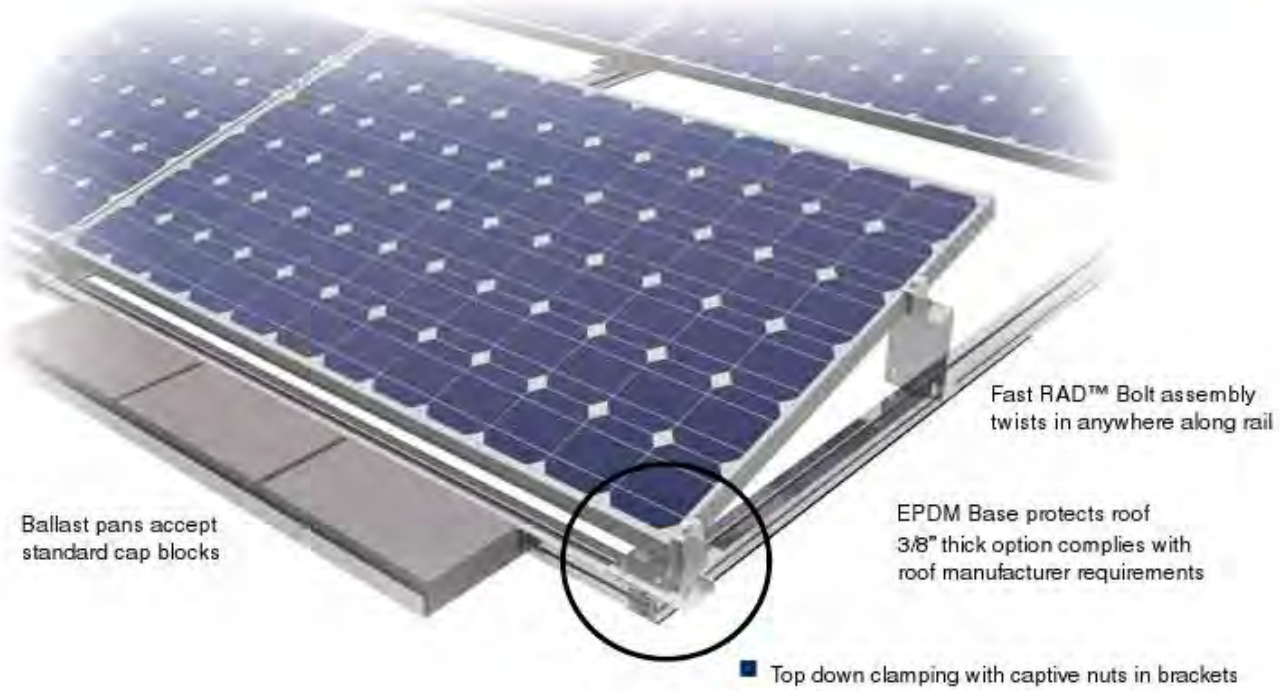
- Roof layout flexibility
- Lower distributed roof loading
- Lower overall installed costs
- Higher energy production
- High strength, reliability
- Fast installation
- Increased module density

The POWER-FAB CRS is a fully ballasted, high strength mounting system that evenly distributes loading over the roof surface.

The top down module clamping system and fewer parts install fast and provide a secure mounting structure for most framed modules. Multiple rows of modules tested in a full scale wind tunnel facility qualify designs that require no roof penetrations and minimize the dead load on the roof. To maximize energy production, the POWER-FAB CRS offers an open air design and optional tilt angles, from 5 to 25 degrees. The mounting system features the flexibility to configure the racking around roof obstructions and avoid shaded areas while maximizing the number of modules.

Technical Services Provided

- Permit ready layout drawings
- Fast turn around quotes
- Load calculations from wind tunnel data



- Top down clamping with captive nuts in brackets
- Tilt brackets attach with a single bolt
- All 5/16" Hardware - Single Tool Assembly
- Modules pivot on front bracket for easier assembly and access

Installers

Installers demand a racking solution that installs quickly, and hassle-free. The POWER-FAB® CRS System features a reduction in components and an intuitive design for faster installations.

- RAD™ Bolts twist in anywhere along rail for faster component placements
- Single tool assembly - all 5/16" hardware
- Precision length components eliminate measuring and cutting on site
- Spacer jigs assure proper module placement – no measuring
- Integrated module grounding system option
- Entire system rests on an EPDM Rubber Base – no additional roof mats required

Assembly is fast, simple, and precise.

Engineers & Architects

Engineers & Architects prefer mounting systems that offer flexibility in design and are fully tested and qualified. The POWER-FAB CRS System is a higher strength interconnected design that exceeds flexible building code requirements.

- Full Scale Wind Tunnel qualified
- Grid-work of interconnected high strength rails
- Reduced roof loading
- Penetration options to offset ballasting and/or meet seismic requirements
- Configurable around roof obstructions
- EPDM base increases friction and protects roof surface

The POWER-FAB CRS has been full scale wind tunnel tested and qualified.

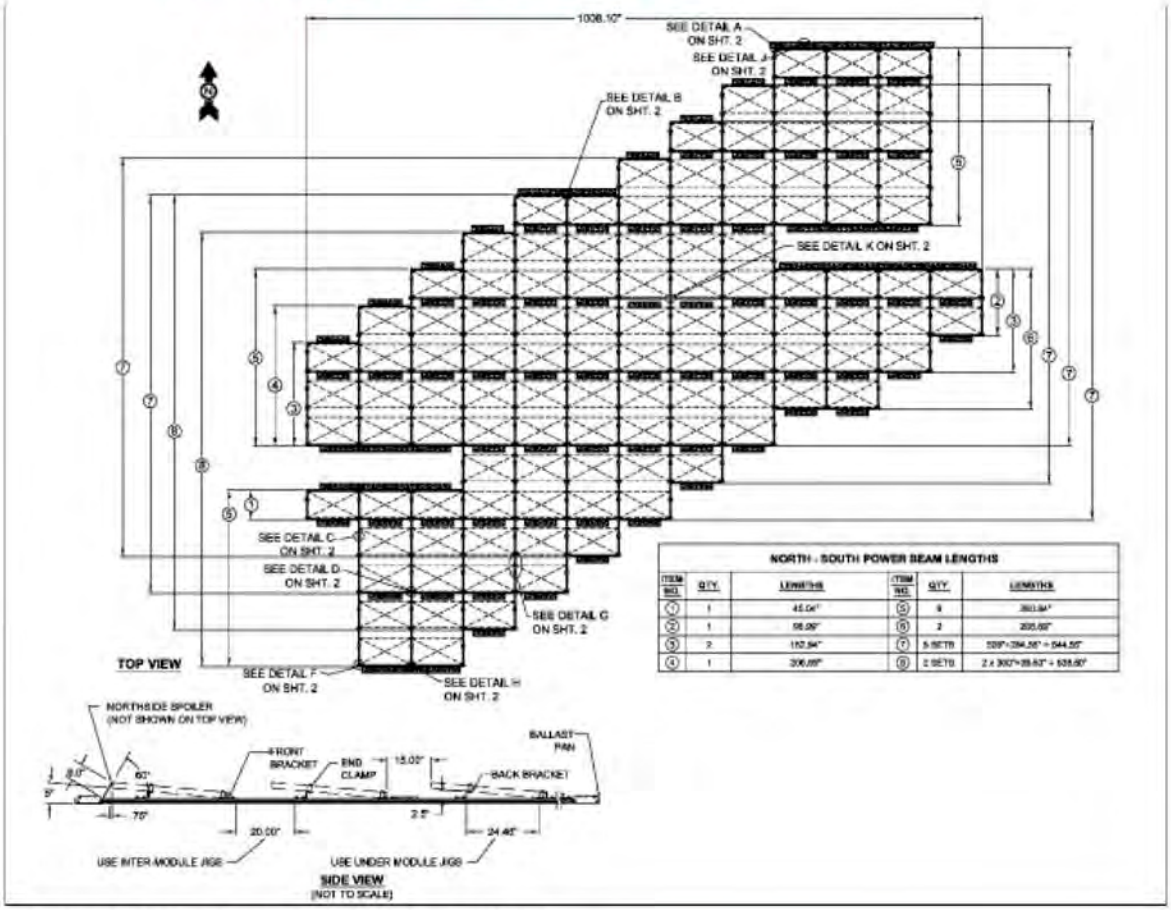
System Owners

System owners expect a mounting system that is reliable, and will withstand the environment for the life of the PV module. The POWER-FAB CRS System also maximizes energy production for a faster return on their investment.

- Corrosion resistant aluminum components
- EPDM rubber base protects roof surfaces
- No roof penetrations
- Full scale wind tunnel tested and qualified
- Open air design increases module energy production
- Higher strength structure and module clamping

Open air design for increased energy production.

Example of a Complex Roof Layout



The POWER-FAB® CRS system is adaptable to any roof layout.

Standard Product Wind/Roof Loading Specifications			
Wind Load	**Standard Tilt Angle****	**Roof Loading**	**Category**
90 mph	10 degree	< 6 lbs./ft²	Exposure C
130 mph	5 degree	< 6 lbs./ft²	Exposure C

Contact factory representative for other tilt angle and wind load options. Full scale wind tunnel data used to calculate ballast weights along with ASCE 07-05 and building code requirements.

**Tilt angles from 5 - 25 degrees available

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