GAMECHANGE SOLAR
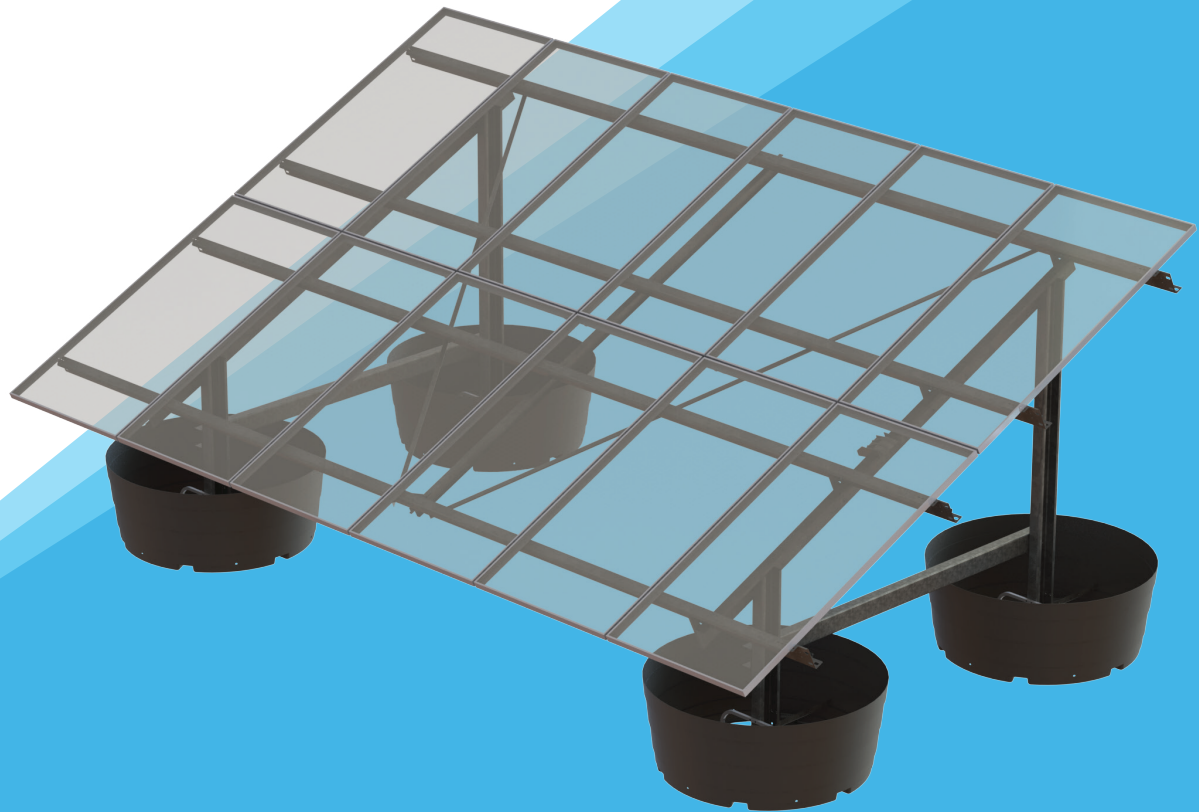## REPOWERING THE PLANET

TECHNICAL DATASHEET

POUR-IN-PLACE™
BALLASTED GROUND SYSTEM
LANDFILL LEADER AND
BEST SOLUTION FOR ROCKY SITES

PLACE
LEAVE BEHIND TUBS

BUILD
SELF LEVELING RACKING

POUR
STANDARD CONCRETE

NO NEED TO FIGHT ROCKY GROUND WITH POSTS OR SCREWS

- **68% FASTER THAN PRECAST**
- **MINIMAL IMPACT ON DRAINAGE**

BENEFITS OF POUR-IN-PLACE™ VS. SCREW OR POST SYSTEMS:

| POUR-IN-PLACE™ BALLASTED GROUND SYSTEM	SCREW OR POST SYSTEMS
✓ Complete your site on time and on budget.	⊘ Slow drilling needed for every hole.
✓ Peace of mind with risk-free install.	⊘ Slow and uncertain install timeline and budget.
✓ Up to 20% lower install racking cost than screw or post systems.	⊘ Up to 25% higher install racking cost than Pour-In-Place™.

Pour-in-Place™ Ballasted Ground System has self-leveling technology which enables fast install.
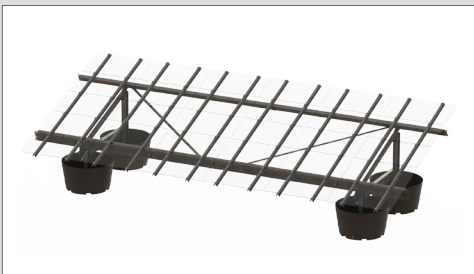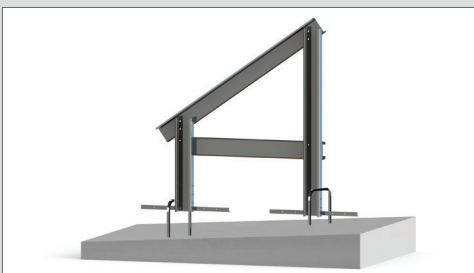

Pour-in-Place™ thin film panel clamps mount using socket head bolts.

Slots combine with rail support self-leveling technology enables up to 7" [18 cm] vertical adjustment.
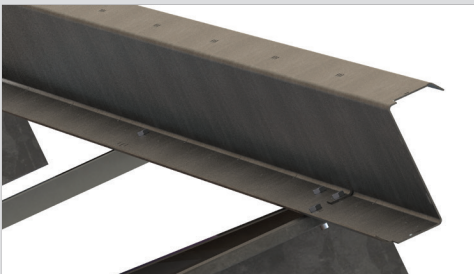
Galvanized purlins with integrated wire management tray.

Large, hoop-shaped brackets slide to enable over 7 " [18 cm] of vertical adjustment, which facilitates the installation on ground that slopes in all directions.

FEATURES

- Pour-in-Place™ Ballasted Ground System: less concrete, faster install, steeper slopes.
- Substantial adjustability allows for slopes up to 15%.
- Self-leveling technology enables up to 7" [18 cm] total vertical adjustability including use of slots.
- No gravel beds or other expensive ground preparations required for leveling as needed for precast - save up to USD 0.05/watt.
- Up to 4'-0" [122 cm] high ground clearance to allow for snow and vegetation.
- 10° to 35° tilt with multiple inter-row spacing options.
- Full layout and engineering analysis for every project.
- Integrated grounding and wire management.

TEST & CERTIFICATION

- Wind tunnel tested by industry leader CPP and rated for 175 mph [78 m/s] wind speed.
- Independent assessment by Black & Veatch.
- Rated up to 90 psf [4,300 Pa] snow load.
- ETL / UL 2703 tested (similar to the relevant sections of IEC 61215 & 61730).
- Meets IBC and ASCE standards for structural loading.
- Designed and engineered in the US. Includes a 20-year warranty.

CALCULATIONS

- PE Stamped Drawings - Design loads according to local building codes: ASCE 7, NBC, Eurocode, AS1170, IS875, and SANS10160.
- 100% code compliant designs for any jurisdiction.
- Individual system structural calculations.

MATERIAL

- Rail support structure components and module mounting rails: G90+ [20 μm] galvanized steel. Standard up to G180 [40 μm] special order.
- HMWPE forms.
- Magnicoat bolts and serrated flange nuts for structural member connections.
- Module mounting hardware (magnicoat):
  - Top mount: module mounting clips & serrated flange nuts.
  - Bottom mount: hex bolts, serrated flange nuts, star washers.
- Integrated grounding with star bolts or teethed module clamps included - both approved under ETL / UL 2703, (similar to the relevant sections of IEC 61215 & 61730).
- Proprietary Integrated-Hardware™: For faster structure assembly, module mounting and reduced O&M cost. Oversized Serrated Flange Nyloc Nut and Oversized Flange Star Bolt with integrated star washer eliminates the need for washers and star washers.

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