Grid-Lite™ ROOF SYSTEM

Technical Data Sheet

GAMECHANGE SOLAR
REPOWERING THE PLANET

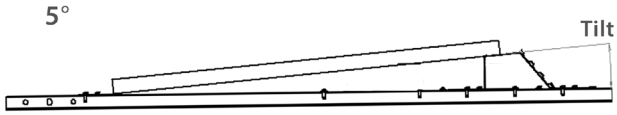
Cost Effective Ultra-Low Weight Ballasted Roof System

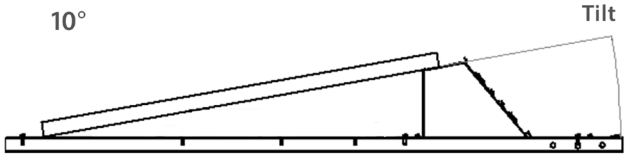
2.2 MW - NY - GC Grid-Lite™ Roof System

MINIMAL BALLAST AND FAST INSTALL

Integrated wire management trays enable string wiring throughout entire array prior to panelizing. First ballasted roof system to obtain stringent DSA approval for the California market. Snap-on EPDM blocks available in place of slip sheets.

CLASS A
FIRE RATING
ETL / UL 2703 LISTED





- A cost effective ultra-low weight ballasted system
- Interlocking grid design combined with next-gen wind deflector to minimize or eliminate ballast
- Industry's best system to handle most severe seismic conditions
- Integrated wire management trays enable string wiring throughout entire array prior to panelizing
- Near zero ballast saves up to $.02/watt
- Fast install with minimal components
- 5° and 10° tilts
- Durable G90 and stainless steel components

MADE IN USA

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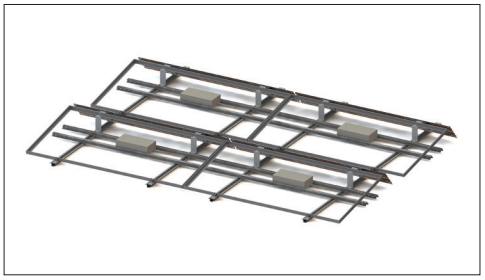
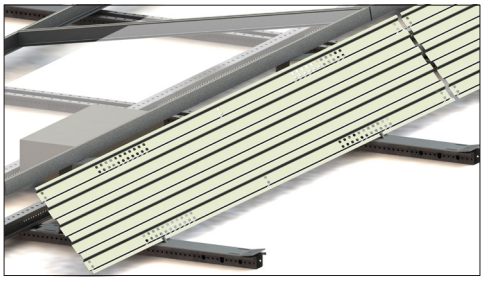
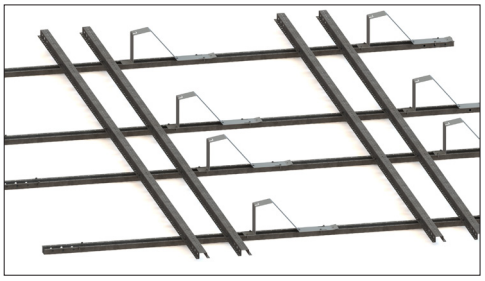


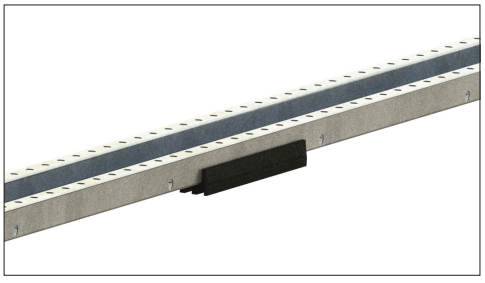
Ultra high grade, galvanized, interlocking rails install quickly to build grid



Next-gen wind deflector reduces ballast to minimal or zero



Integrated wire management trays enable string wiring throughout entire array



EPDM blocks available in place of slip sheets

Features

Fire proof, durable galvanized and stainless steel components

Minimal ballast when required on edges, quickly installs with additional rail

Ultra high grade, galvanized, interlocking rails install quickly to build grid

Typical roof loading 0 to 1 psf [48 Pa] for ballast; 2.5-3.5 psf [119.7 Pa - 167.58 Pa] total load including ballast, modules and racking

Less ballast and related labor reduce total installed cost

Full layout and engineering analysis for every project

EPDM blocks available in place of slip sheets

Unique design protected under patent pending

Test & Certification

- Class A fire rating tested by ETL to UL 1703 & 2703: Covers essentially all available modules (Fire guards optional at additional cost)
- ETL / UL 2703 listed
- Independent assessment by Black & Veatch
- 60 psf [2.87kPa] ground snow load rated
- Meets IBC and ASME standards for structural loading
- Wind tunnel testing industry leader CPP and rated for 150 mph wind speed
- Warranty 20 years

Calculations

- 100% code compliant designs for any locality
- Third-party structural PE stamped drawings and calculations
- Individual system structural calculations
- Individual system design calculations based on regional climatic load values according to IBC 2009 or 2012
- Patent pending profile geometries with optimum material utilization

Material

- Rails, panel supports, wind deflectors. Optional at additional cost: fire guards, G180 galvanized steel, row end wind deflectors, EPDM blocks
- Panel clips: stainless steel
- Hardware –1/4 - 20 x 2-1/2" bolts with serrated flange nuts, 3/8" x 2-1/4" bolts with serrated flange nuts: stainless steel or magnacoat

System Geometry / Layout Spacing

- Pan row spacing: 5 and 10° tilt option; 10.16/18.09" [258 mm/459 mm]
- Shade angles: 5 and 10° tilts; 22° shade angle

Grounding

- Racking system has integrated grounding utilizing ETL / UL teethed module clips on two corners of each array
- Grounding must be done by electrician at row end of corner array