

INTEGRARACK®

Revolutionary Solar Racking Systems



IR-D1

INSTALL INSTRUCTIONS



IntegraRack® backs all of its products with a 25 year limited product warranty. We fully stand by the quality and guarantee that they will hold up under the harshest conditions when properly installed.

Disclaimer

The instructions detailed in this manual will provide the knowledge and requirements necessary for proper installation of the given product. Be sure to read them thoroughly and make sure that you fully understand them before proceeding with installation. Any improper use or installation of these products will void any and all warranty coverage, and may cause failure, property damage or personal injury. IntegraRack is not responsible for any damages caused by improper use.

IT IS THE RESPONSIBILITY OF THE INSTALLER TO:

- Comply with any and all applicable local or national codes and regulations.
- Ensure all products are appropriate for the installation according to the environmental and loading conditions.
- Ensure roof structure is in good condition prior to installation
- Disconnect AC power before servicing or removing modules, micro-inverters or power optimizers.
- Review manufacturer's documentation for compatibility and compliance for solar modules and 3rd party systems.
- If loose components or loose fasteners are found during periodic inspection, re-tighten immediately. Any components showing signs of corrosion or damage that compromise safety shall be replaced immediately.
- Provide an appropriate method of direct-to-earth grounding according to the latest edition of the National Electrical Code, including NEC 250: Grounding and Bonding, and NEC 690: Solar Photovoltaic Systems.
- Ensure safe installation of all electrical aspects of the solar system (All electrical installation and procedures should be conducted by a licensed and bonded electrician or solar contractor). Regular maintenance of a module or panel shall not involve breaking or disturbing the bonding path of the system. All work must comply with national, state and local installation procedures, product and safety standards.
- Ensure bare copper grounding wire does not contact aluminum and zinc-plated steel components, to prevent risk of galvanic corrosion.
- Ensure provided information is accurate. Issues resulting from inaccurate information are the installer's responsibility.

Components

INCLUDED COMPONENTS

- (1) IR-D1
- (4) M8-1.25x40mm Flange Head Self-Piercing Deck Mounting Screws
- (4) EPDM Sealing Washers
- (2) Strips of Hydro-Forming Mastic Rubber™ Fitted to Bottom Foot of Bracket



IR-D1 Multi-Surface Deck Mount Bracket

Required Tools

Tools Needed

- 1/2" Wrench or Screw Gun
- Line Chalk
- Tape Measure
- Carpenter's Pencil
- Rag
- Rubbing Alcohol



1. Chalk Lines For Each Row

Chalk lines for each row according to placement of rails. Each IR-D1 Bracket has notches cut into each side of the feet that will align with back of the upright part of the bracket that attaches to the rail. These notches will be placed along the chalk line.



2. Measure For Roof Mount Spacing

For optimal load requirements, IR-D1s must be placed no more than 12 inches in from each end of the rail, and spaced no more than 4 feet apart (See our datasheets for detailed snow and wind load requirements).



3. Prep Roof and Mark Bracket Placement

Clean the area thoroughly where each roof mount will be installed on the chalk line with alcohol, and then use a carpenter's pencil to trace out the footprint of the mounting bracket onto roof.



4. Mount Brackets to Roof Surface

Peel off the adhesive backing from the Hydro-Forming Mastic Rubber™ and firmly place the bracket on the roof. Once all of the brackets are stuck into the proper position, mount them in place with the provided deck mounting bolts. These bolts are self piercing and don't require any pre-drilled holes. When tightening the bolts, watch for the mastic rubber to expand out of the visual inspection holes to ensure proper pressure has been applied. Don't tighten too much, as the bolts may strip.



5. Attach Rails

Attach rails using the T-Bolts provided with the rail system. The IR-D1 has an opening for a 5/16" T-Bolt and an adjustable slot for a 3/8" T-Bolt make it compatible with all rail system.

6. Install Solar Modules

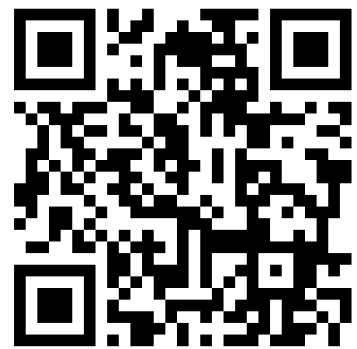
String line across top of rails up the roof to adjust all rails to the same height and install solar modules as per manufacturers specifications.



View Installation Video



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Revolutionary Products**



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