PRODUCT DATA SHEET

Approved for Historic Preservation
Certificate of Appropriateness
Date: 09/29/14

# IRONRIDGE XR ROOF MOUNT

## KEY FEATURES

- Extruded aluminum components are lightweight for easy handling yet strong enough for most roof mount applications
- Choice of XRL (lightweight) and XRS (standard) rails
- Both XRL and XRS rails come with slots for attaching L-feet and top slots for attaching panel clamps
- XRS rails has slot for bottom mounting clamps
- Hidden internal splice bars are aesthetically pleasing
- Internal splices provide superior strength and flexibility with L-feet placement
- Adjustable L-feet have vertical extension slots for easy adjustability of up to 1-3/8”
- Standoffs provide increased airflow and ventilation and enable precise placement of flashings
- Standoffs come in four standard heights: 3”, 4”, 6”, and 7”
- XR platform compatible with popular flashings including QuickMount and Oatey
- Panel clamps for both top and bottom mounting
- Panel clamps for most popular photovoltaic modules
- Mid-clamp design maximizes panel density
- Ground clips eliminate the need for copper wire between modules
- The XR Roof Mount components are covered with an industry-leading 10 year limited product warranty and a 5 year limited finish warranty
- All XR Roof Mount components are PE certified

The IronRidge XR platform is a reliable, comprehensive, and feature rich photovoltaic mounting solution. Anchored by the XRS (Standard) and XRL (Light) rails, the XR platform includes all of the components necessary for supporting virtually any commercial or residential roof mount installation, regardless of surface material or roof grade.

The XRS and XRL rails are manufactured from extruded aluminum to maximize spans while minimizing weight for improved handling. The graceful curves of the XRS rail will please even the most aesthetically demanding customers. Rails can be extended with the IronRidge patent-pending internal splice bars, providing a strong support connection and ultimate flexibility in footing attachment locations. Installers have a variety of options in attaching IronRidge rails to the roof, including adjustable L-feet, aluminum standoffs, and tilt legs for optimizing power. In addition, IronRidge accommodates modules from most major manufacturers. Top-down panel clamps securely grip the outside frame of the module, freeing the installer from the constraints of panel mounting holes. The XRS rail has an additional side slot to enable the option of bottom mounting. Lastly, grounding clips pierce the anodized rails, creating a ground path through the equipment and eliminating the need to run copper wire between every module.

IronRidge provides a complete technical support system that includes step-by-step installation guides, engineering certification documentation, easy-to-read span charts, and on-line configurator software.

See reverse for product specifications and ordering information. Please contact your local distributor for configuration assistance.

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## SPECIFICATIONS

- XRL/XRS Rail – 6105-T5 extruded anodized aluminum
- XRL/XRS Splice Bars – 6105-T5 extruded aluminum
- Standoffs – 6105-T5 extruded aluminum
- L-feet: 6105-T5 extruded aluminum
- Clamps: 5052-H32 aluminum
- Hardware: 18-8 Stainless Steel

## XRS PROPERTIES

- Area = .807136 inches^2
- Centroid relative to output coordinate system origin
  - X = 0.5556
  - Y = 1.4097
  - Z = 120.000
- Moments of Inertia of the area (at the centroid)
  - Lxx = 0.8430
  - Lxy = 0.1117
  - Lxz = 0.0000
  - Lyx = 0.1117
  - Lyy = 0.1822
  - Lyz = 0.0000
  - Lzx = 0.0000
  - Lzy = 0.0000
  - Lzz = 1.0252
- Polar Moment of Inertia
  - At Centroid = 1.0252^4
- Principal Moments of Inertia
  - Ix = 0.1638
  - Iy = 0.8614
- Principal-Part Axes
  - Angle = 99.343 degrees
- Moments of Inertia (output)
  - LXX = 11625.205
  - LXY = 0.5204
  - LXZ = 53.8153
  - LYX = 0.5204
  - LYY = 11623.1909
  - LYZ = 136.5369
  - LZX = 53.8153
  - LZY = 136.5369
  - LZZ = 2.8784

## ORDERING INFORMATION

| XR Rails | | |
|---|---|---|
| **Part Number** | **Description** | |
| 51-7000-144a | XRS Standard Rail (1) – 12 feet | 11.364 lbs |
| 51-7000-168a | XRS Standard Rail (1) – 14 feet | 13.258 lbs |
| 51-7000-192a | XRS Standard Rail (1) – 16 feet | 15.152 lbs |
| 51-7000-216a | XRS Standard Rail (1) – 18 feet | 17.046 lbs |
| 51-6000-144a | XRL Light Rail (1) – 12 feet | 6.288 lbs |
| 51-6000-168a | XRL Light Rail (1) – 14 feet | 7.336 lbs |
| 51-6000-192a | XRL Light Rail (1) – 16 feet | 8.384 lbs |
| 51-6000-216a | XRL Light Rail (1) – 18 feet | 9.432 lbs |
| 29-7000-010 | XRS Splice Kit (1) | 0.442 lbs |
| 29-7000-000 | XRL Splice Kit (1) | 0.151 lbs |
| **Panel Clamps** | | |
| **Part Number** | **Description** | **Weight** |
| 29-7000-xxx | End Clamps (4) – depends on panel | .251-.290 lbs |
| 29-7000-10x | Mid Clamps (4) – depends on panel | .213-.251 lbs |
| 29-7000-117 | Under Clamps (4) | 0.324 lbs |
| **Footing Attachments & Flashings** | | |
| **Part Number** | **Description** | **Weight** |
| 29-7000-017 | L-feet Kit (4) | 0.872 lbs |
| 51-600x-500 | 3”-7” Standoffs – Specify L-feet or Tilt leg | .533-.710 lbs |
| 31-1000-001 | Oatey Galvanized Flashing 11830 (12) | 8.750 lbs |
| 31-1000-000 | QuickMount QMSCA12 (12) | 13.390 lbs |
| 51-7200-0XX | Tilt Legs (7” – 40”) | .0658 lbs/inch |
| 51-7210-000 | Tilt Leg Bracket | 1.576 lbs |
| **Grounding** | | |
| **Part Number** | **Description** | **Weight** |
| 29-4000-001 | WEEB DMC-Clip (100) | 0.258 lbs |
| 29-4000-002 | WEEB Grounding Lug (100) | 12.356 lbs |
| 29-4000-003 | WEEB Bonding Jumper (100) | 17.614 lbs |
| 29-4000-006 | WEEB ACC-PV Wire Clip (100) | 0.625 lbs |

## L-FOOT DIMENSIONS