



### QIMS2.E467724

## Mounting Systems, Mounting Devices, Clamping Devices and Ground Lugs for Use with Photovoltaic Modules and Panels - Component

[Page Bottom](#)

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See General Information for Mounting Systems, Mounting Devices, Clamping Devices and Ground Lugs for Use with Photovoltaic Modules and Panels - Component

### EVEREST SOLAR SYSTEMS

E467724

Ste 111  
3809 Ocean Ranch Blvd  
Oceanside, CA 92056 USA

**Component pieces**, Cat. No. CrossRail 48, CrossRail 80, Rail Connector CrossRail 48, Rail Connector CrossRail 80, L-foot, Bonding T-bolt, Standard T-bolt, CrossRail Tuk Bracket, Climber.

Conditions of Acceptability:

1. The parts have been evaluated for bonding only.
2. The grounding OCD protection rating has been assessed to a 30 Amp capacity. Acceptability for use with specific mounting and grounding and bonding systems must be determined in the end-use application, under Subject 2703.
3. The parts have not been evaluated for connection to ground and must be evaluated for this connection in the end-use application.
4. The required torque to be applied to the following components and connections for proper assembly and bonding for both systems.

Component/Connection	Torque Value
CrossRail to CrossRail or CrossRail Tuk through Rail Connector	25.8 ft-lb
L-Foot to CrossRail (through T-bolts)	25.8 ft-lb
Climber to CrossRail	11.8 ft-lb
Burndy 8.0 Grounding Lug to CrossRail	10 ft-lb
Burndy 8.0 Grounding Lug to 10AWG Stranded Copper Wire	7 ft-lb
Rail Connector CR48	25.8 ft-lb
Slide Bracket	25.8 ft-lb
Stand Off	25.8 ft-lb
Shared Rail Slide Hook	25.8 ft-lb
CrossRail 48-S, 48, 80 Tilt Connector	25.8 ft-lb
Single Hook	25.8 ft-lb

5. The standard T-bolt may only be used with mill finish components, as there are no piercing elements to break dark anodized aluminum.
6. The Climber may only attach between mill finish CrossRails, as there are no piercing elements to break the dark anodized aluminum.
7. Based on 25.8ft-lb torque, using the M10 Bonding or standard T-bolts, and assuming 4 bolted connections for a span, the L-foot connection to the rail has a suitable clamp load for an area of 2082.3 ft<sup>2</sup> and 45lb/ft<sup>2</sup> test load. This must be verified during the end-product Listing.
8. Based on 11.8ft-lb torque, using the M8 Allen bolt and assuming 4 bolted connections, the Climber to rail has a suitable clamp load for an area of 23.1 ft<sup>2</sup> and 45lb/ft<sup>2</sup> test load. This must be verified during the end-product Listing.
9. The clamp load calculation for the Rail Connector and Tuk Bracket must be evaluated during the end-product Listing.

10. The following Grounding lug is attached as described to the Rail components for the normal attachment of a Grounding Electrode Conductor.

a. Burndy Weeb-Lug-8.0 (KDER E9999) for attachment to 6 AWG Stranded copper wire when torqued to 60in-lbs. Connects in the CrossRail 40 or 80 channel, through the rail channel using the T-bolt and is torqued to 10ft-lb.



Marking: Company name, catalog designation and the Recognized Component Mark on the device or on the smallest unit container in which the product is packaged.

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[Page Top](#)

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