



Washer, Electrical Equipment Bond

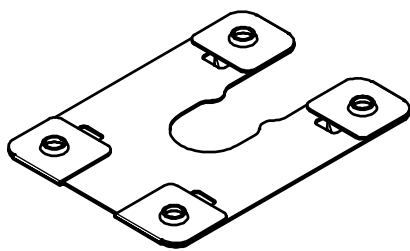
WEEB[®] WASHER

INSTALLATION INSTRUCTIONS

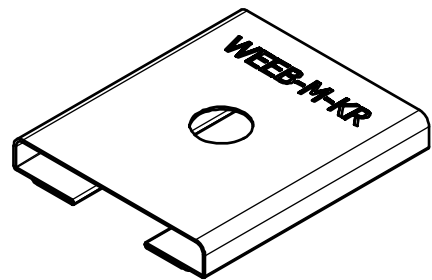
For Kinetic Solar

K-Rack and Rapid-Rail System Only

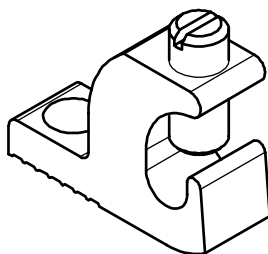
Burndy LLC recommends that the sufficient details of the installation be submitted to the AHJ for approval before any work is started.



WEEB-KSR



WEEB-M-KR



CL501TN



Products are tested to UL 467, CAN/CSA-C22.2 No. 41 US/ Canadian standards for safety grounding and bonding equipment.

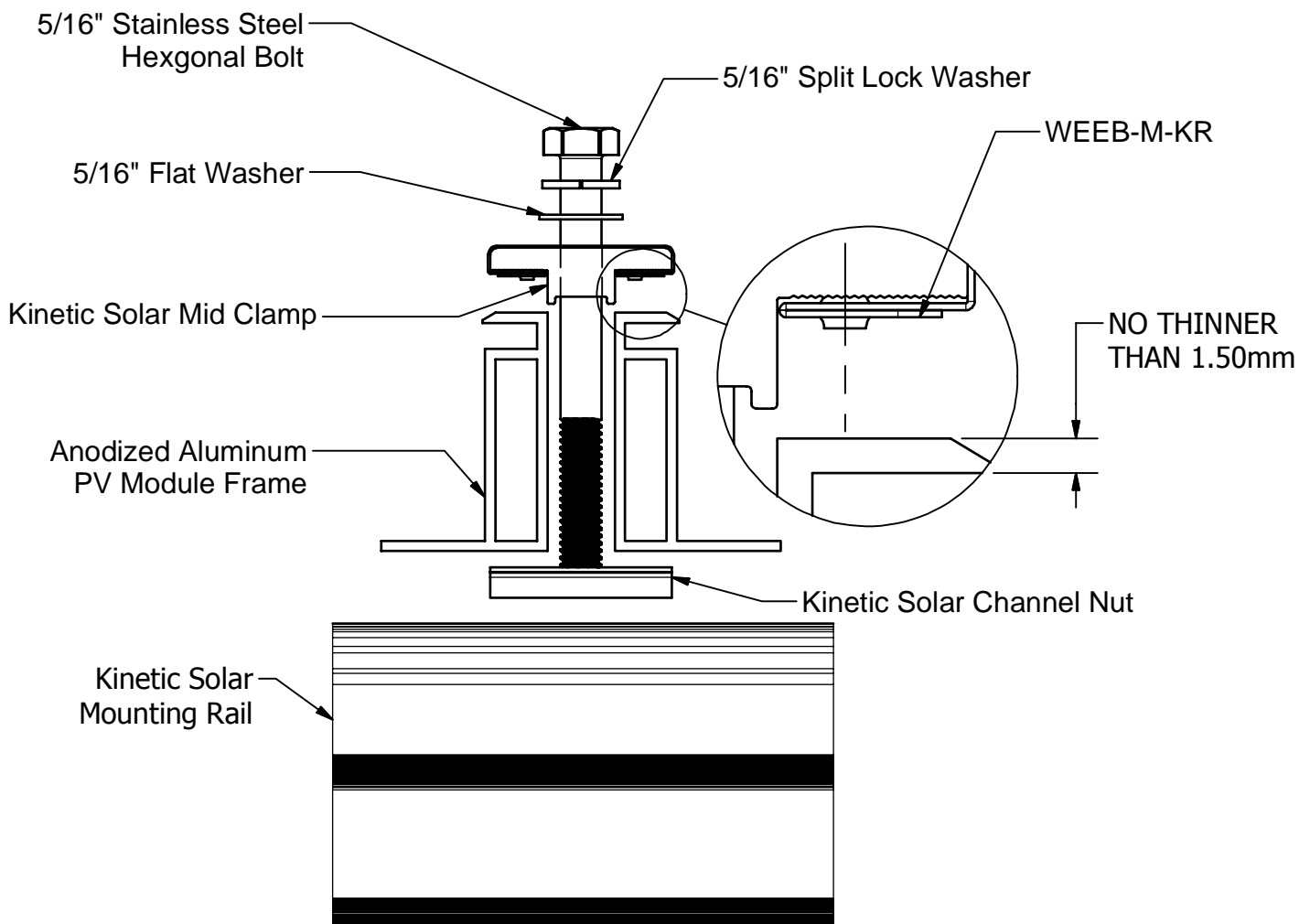


Intertek
4004188

WEEB-M-KR on Boxed Module Frames

The WEEB® washer family of products can be used to bond anodized aluminum, galvanized steel, steel and other electrically conductive metal structures. All installations shall be in accordance with NEC requirements in the USA and with CSA C22.1 in Canada. The WEEB® washers are for use with modules that have a maximum fuse rating of less than 25A.

Certain module frames do not have enough structural strength to withstand the force required to embed a WEEB® washer. These frames will deform and therefore not allow sufficient penetration of the WEEB® washer teeth. The general requirements for minimum module frame thickness of boxed type module frames are illustrated below. For more information regarding module compatibility, please see the technical documents section of our website.

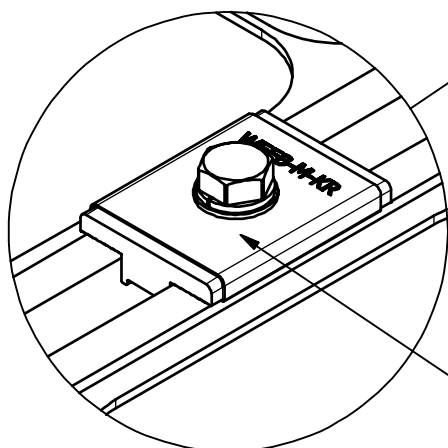
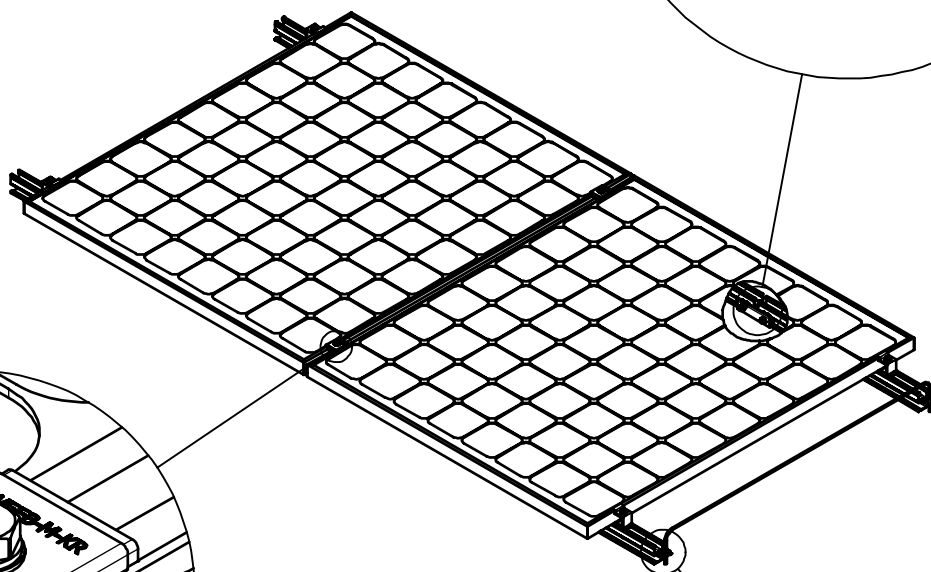
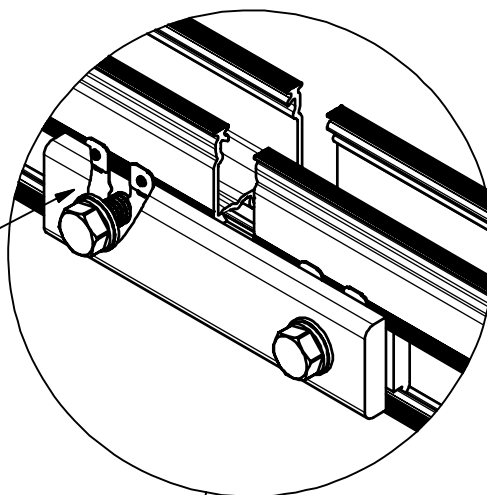


Note:

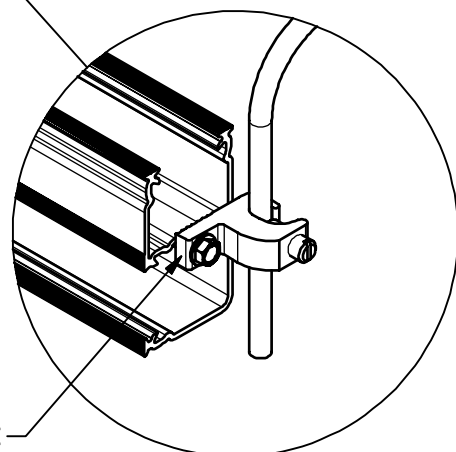
Inspect each module frame used with a WEEB® device to ensure that the bottom mounting face of the frame is flat, and that there are no hindrances to embedding WEEB® washer teeth. Do not use a module with a frame that prevents the WEEB® washer teeth from embedding fully.

SYSTEM OVERVIEW

Assemble splice kit with (2) WEEB-KSR's and Torque fasteners to 12 ft-lbs / 16.3 N-m.



Use WEEB-M-KR to bond Mid clamp to solar modules frames and torque fasteners to 12 ft-lbs / 16.3 N-m.



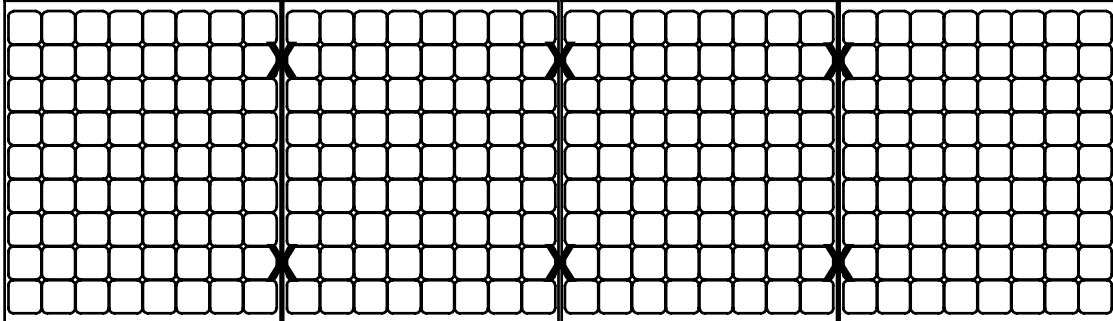
Attach Burndy CL501TN directly to the screw port using a #8 tech-screw and external serrated washer.
NOTE: Minimum thread engagement is two threads.

Important notes:

1. Anti-Seize or Burndy PENETROX-A is not required on mounting hardware.
2. Secure PV cables and reliably route cables using Wiley ACC cable clips for proper wire management.
3. The NEC section 690.43 states "Exposed non-current carrying metal parts of module frames, equipment, and conductor enclosures shall be grounded in accordance with 250.134 or 250.136(A) regardless of voltage".

WEEB-M-KR LAYOUT

EVEN NUMBER OF MODULES IN ROW

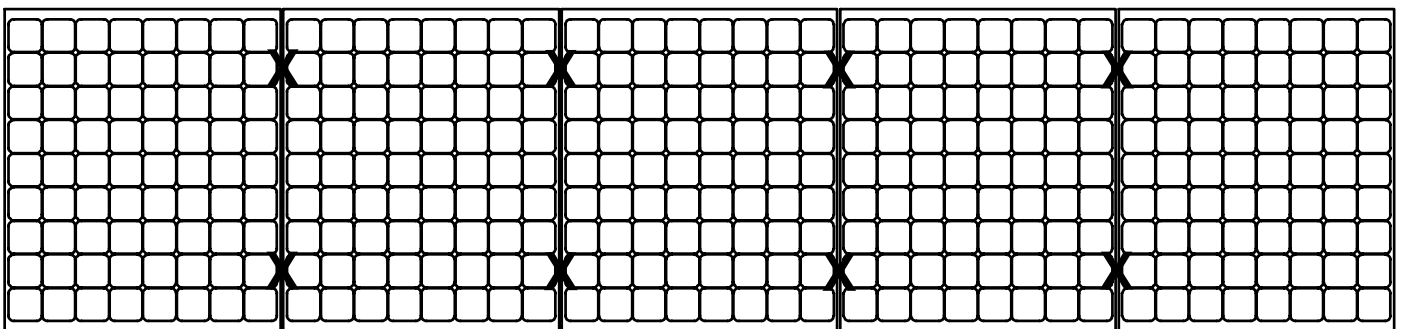


X DENOTES PLACES TO INSTALL WEEB-M-KR

$$\text{WEEB-M-KR NEEDED} = [(C-1) \times R] \times 2 = [(4-1) \times 1] \times 2 = 6$$

$$\text{WEEB-M-KR NEEDED} = 6$$

ODD NUMBER OF MODULES IN ROW



X DENOTES PLACES TO INSTALL WEEB-M-KR

$$\text{WEEB-M-KR NEEDED} = [(C-1) \times R] \times 2 = [(5-1) \times 1] \times 2 = 8$$

$$\text{WEEB-M-KR NEEDED} = 8$$

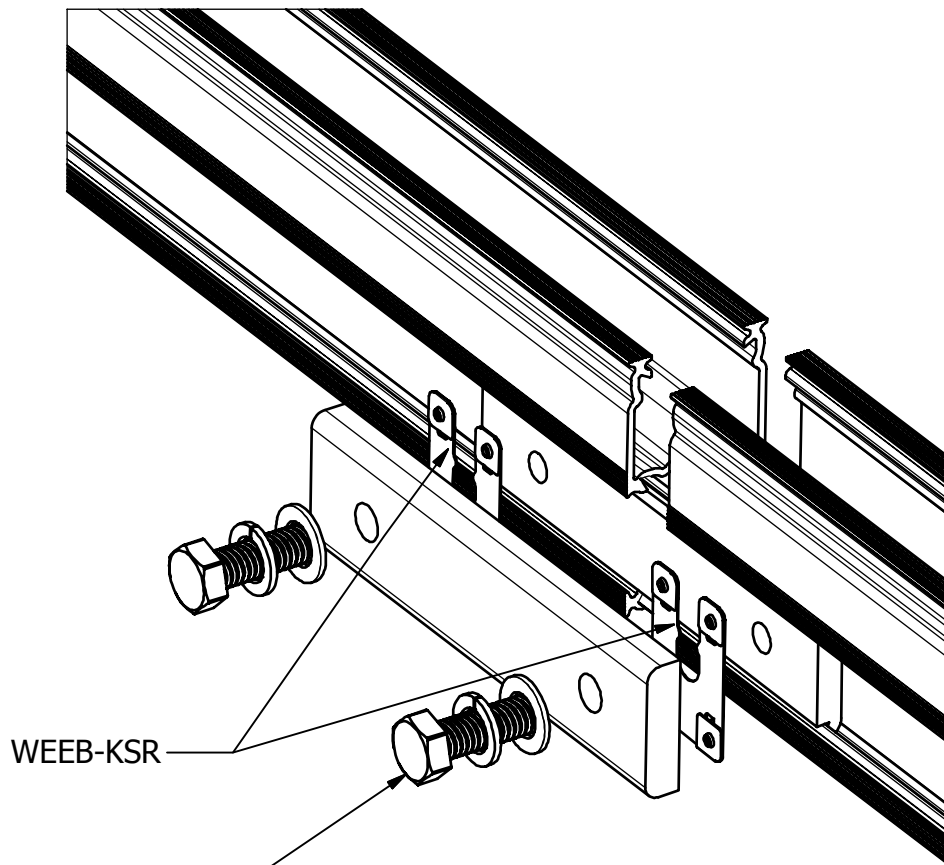
The WEEB-M-KR is to be installed at every mid-clamp on the array in order to properly bond the PV modules to each other.

Note:

When replacing a single faulty module, also remove the adjacent module which contacts the same WEEB® washers as the faulty module. This will ensure that there are never ungrounded modules in the array.

SPLICE KIT ASSEMBLY

Use one (1) **WEEB-KSR** on each side of the splice in order to properly electrically bond the rails.



WEEB-KSR

Torque fasteners to
12 ft-lb / 16.3 N-m.

Customer Service Department
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1-603-647-5299 (International)