



Experience. Technology. Answers.™

December 15th, 2011

To: Whom it may concern

Re: WEEB-UMC compatibility with IronRidge Ballasted Roof Mount System

From: Burndy, LLC

Burndy LLC has tested the use of the WEEB-UMC with aluminum module frames and the Iron Ridge Ballasted Roof Mount System. Wiley approves the use of the WEEB-UMC with the Iron Ridge Ballasted Roof Mount System, galvanized steel end clamp and solar modules with aluminum frames.

The WEEB-UMC must be used to bond the aluminum module frames to the Iron Ridge BRM mounting plate. The WEEB-UMC must be installed between the module frame and the mounting plate on the ballast mount assembly. Each bolt/nut combination that installs a WEEB-UMC must be tightened to at least 10 ft-lbs / 13.5 N-m of torque. 1/4"-20 hardware must be used.

All bolts used to install the WEEB-UMC must have general purpose anti-seize applied to their threads prior to installation.

The WEEB-UMC does not bond the aluminum mounting plate to the ballast pan.

Any installation that does not follow these instructions is done so without the approval of Burndy LLC. Please contact Burndy with any questions or concerns regarding this note.

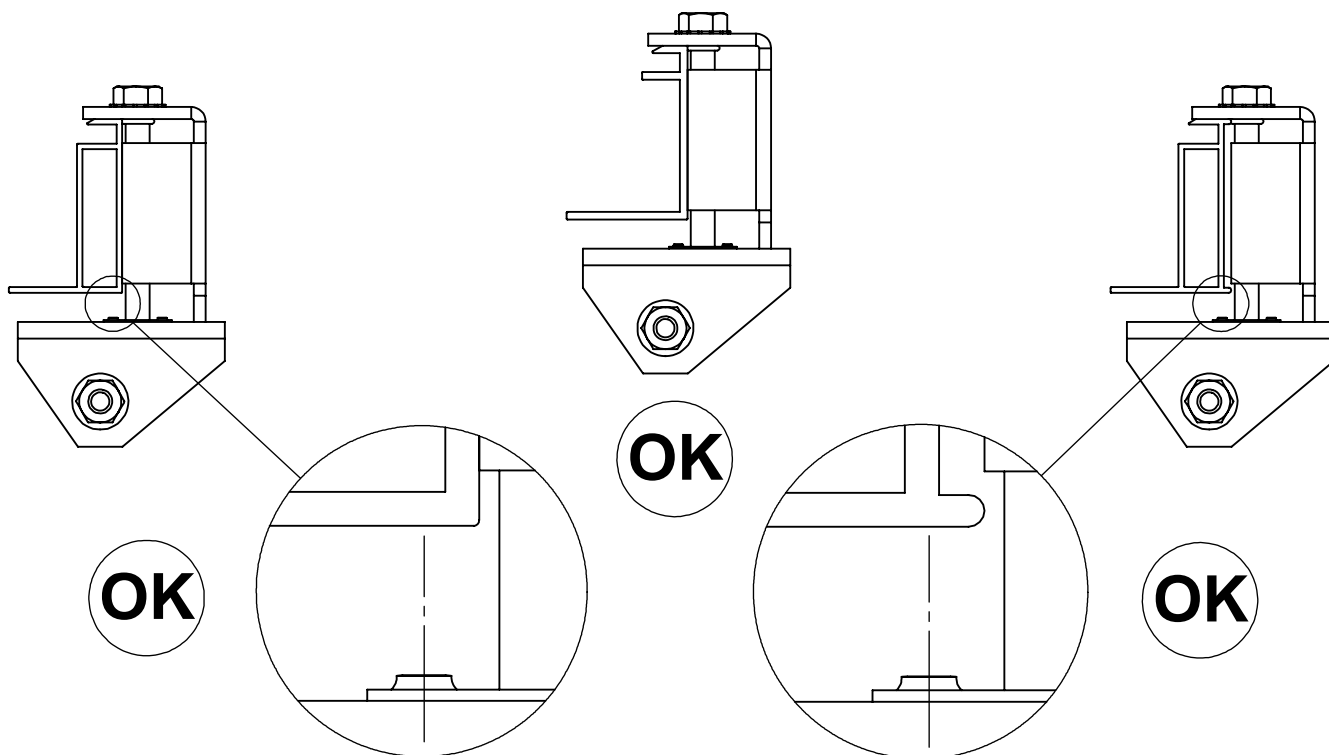
Paul Kovalov
Product Engineer
Burndy LLC
pkovalov@burndy.com
(845) 853-9908

WEEB COMPATIBILITY

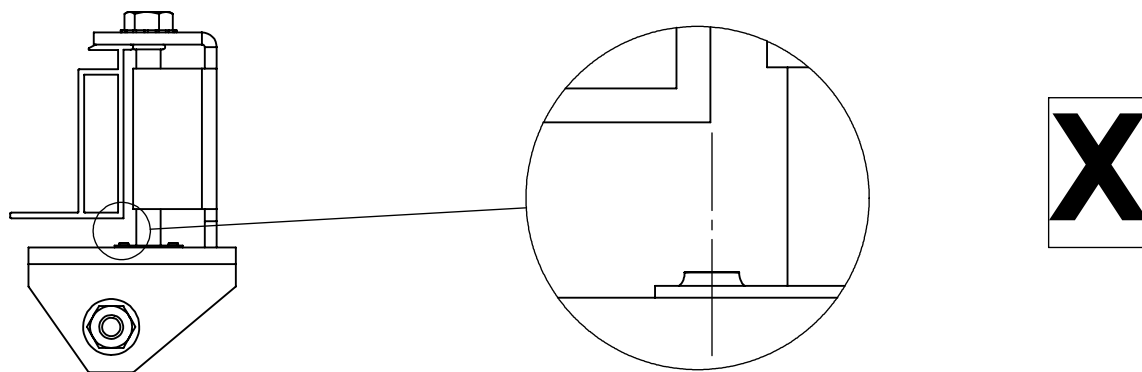
The WEEB family of products can be used to bond anodized aluminum, galvanized steel, steel and other electrically conductive metal structures. All installations shall be in accordance with NEC requirements in the USA and with CSA C22.1 in Canada. The WEEBs are for use with modules that have a maximum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

Standard Top Down Clamps

The WEEBs used for bonding the PV modules to the mounting rails are compatible with various cross-sections of module frames. The following are examples of module frames that are compatible. Notice that the WEEB teeth are positioned completely under the edge of the module frame.

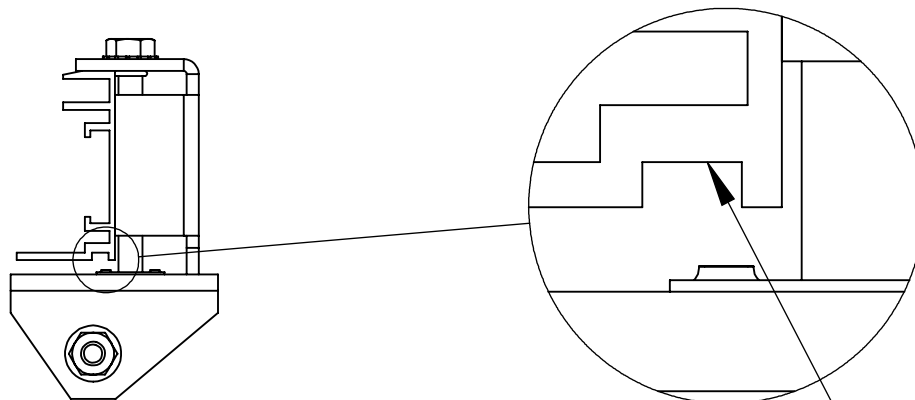


The following is an example of a module frame that is incompatible with the WEEB. The single lip on this module frame won't allow the teeth of the WEEB-UMC to fully engage the bottom flange.

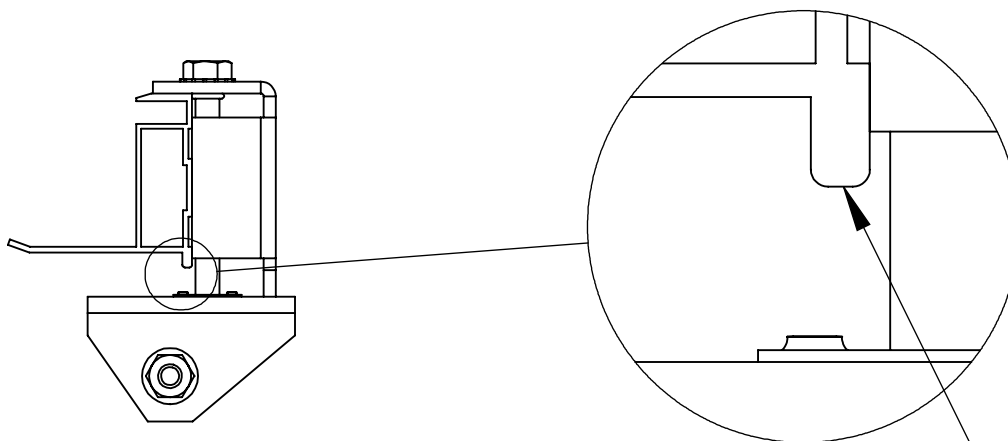


WEEB COMPATIBILITY

Module frames like those shown here may have a ridge or lip on the bottom edge of the frame that would prevent the WEEB teeth from fully embedding.



Shown here is an example of a lip that will prevent the WEEB teeth from properly penetrating the module frame. This type of frame is not compatible with the WEEB.



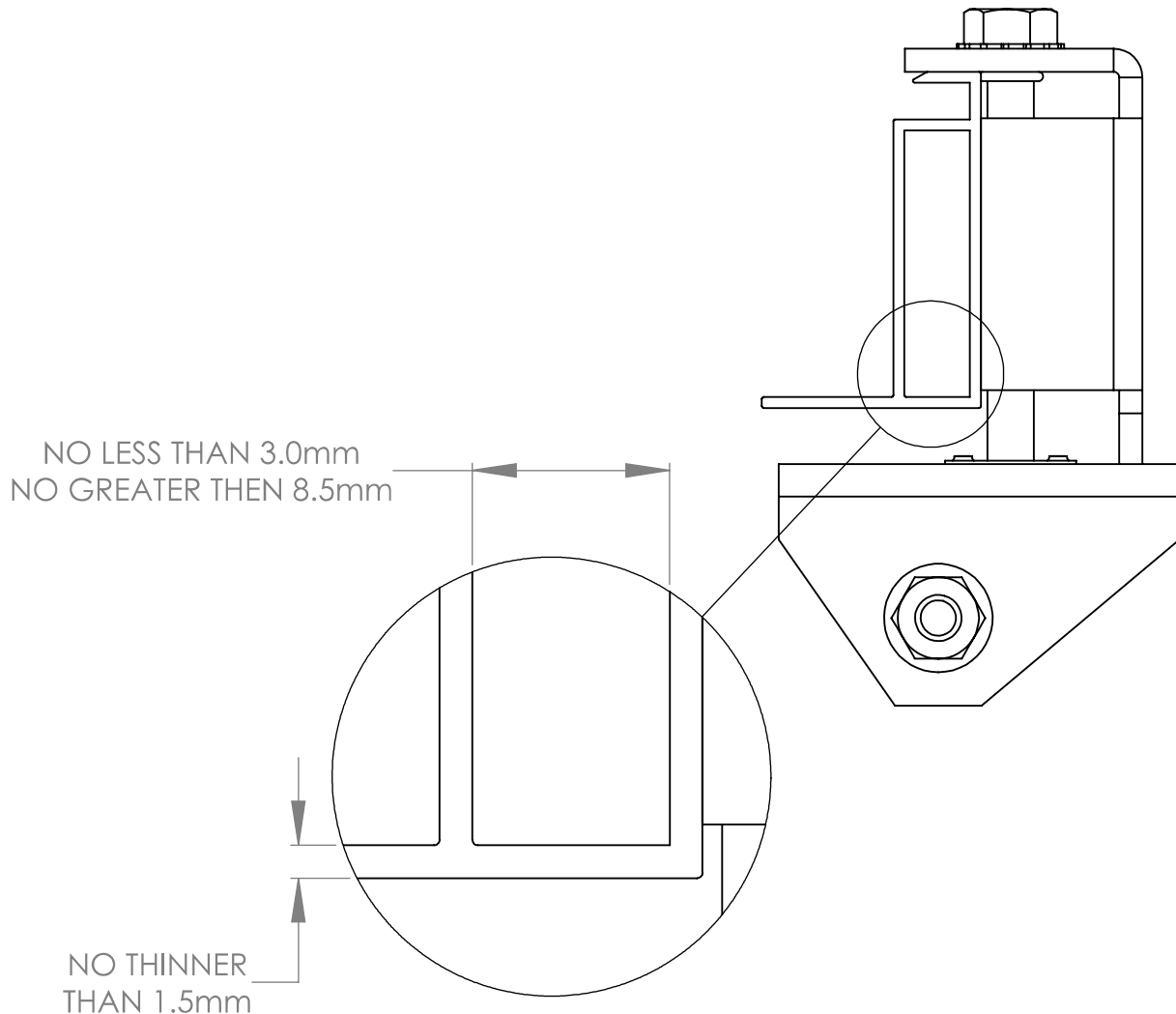
Shown here is an example of a groove that will prevent the WEEB teeth from properly penetrating the module frame. This type of frame is not compatible with the WEEB.

Important Note:

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

WEEB-UMC on Boxed Module Frames

Certain module frames do not have enough structural strength to withstand the force required to embed a WEEB. These frames will deform and therefore not allow sufficient penetration of the WEEB teeth. The general requirements for minimum module frame thickness of "boxed" type module frames are illustrated below.



Important notes

1. Use general purpose anti-seize compound on fastener threads when installing WEEBs.
2. 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."
3. WEEBs are intended for SINGLE USE ONLY. Functionality will not be guaranteed if reused.