

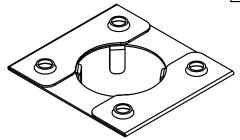
### Washer, Electrical Equipment Bond

# WEEB® WASHER

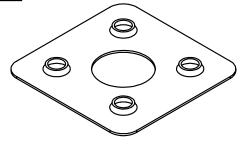
# INSTALLATION INSTRUCTIONS For RBI Solar Groundmount Only

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

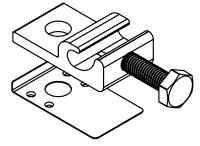




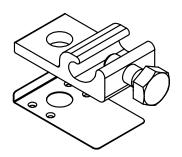
**WEEB-11.5** 



**WEEB-UIR** 



WEEB-LUG-6.7



WEEB-LUG-8.0



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







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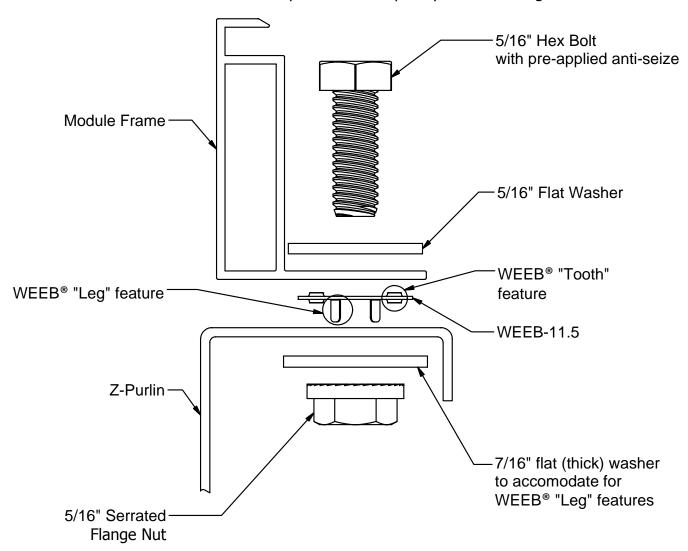


### **WEEB-11.5 COMPATIBILITY**

The WEEB® washer family of products can be used to bond anodized aluminum, galvanized steel, steel, and other electrically conductive metal structures. Metal racking components conforming to ASTM A653, A1046, and A792 standards have been evaluated and may be used in systems utilizing the WEEB® washer family of products. 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.

### **Bottom Mounting Modules requiring 5/16" Hardware**

The WEEB® washers used for bonding the PV modules to the mounting rails are compatible with various cross-sections of module frames. The following is an example of a module frame that is compatible. Notice that the WEEB® washer teeth are positioned completely under the edge of the module frame.



#### Note:

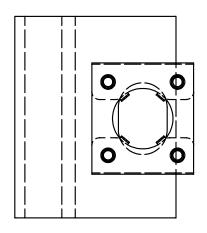
Inspect each module frame used with a WEEB® device to ensure that the bottom mounting face of the frame is flat, and that there are no hindrances to embedding WEEB® washer teeth. Do not use a module with a frame that prevents the WEEB® washer teeth from embedding fully.

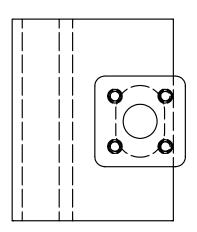


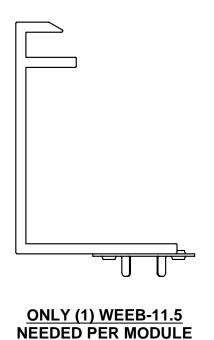


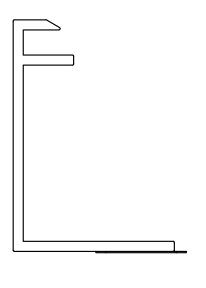
### WEEB® WASHER COMPATIBILITY

# WEEB-11.5 and WEEB-UIR BOTTOM MOUNT SCENARIO FOR SLOTTED MODULE MOUNTING HOLE









ONLY (1) WEEB-UIR NEEDED PER MODULE

#### Note:

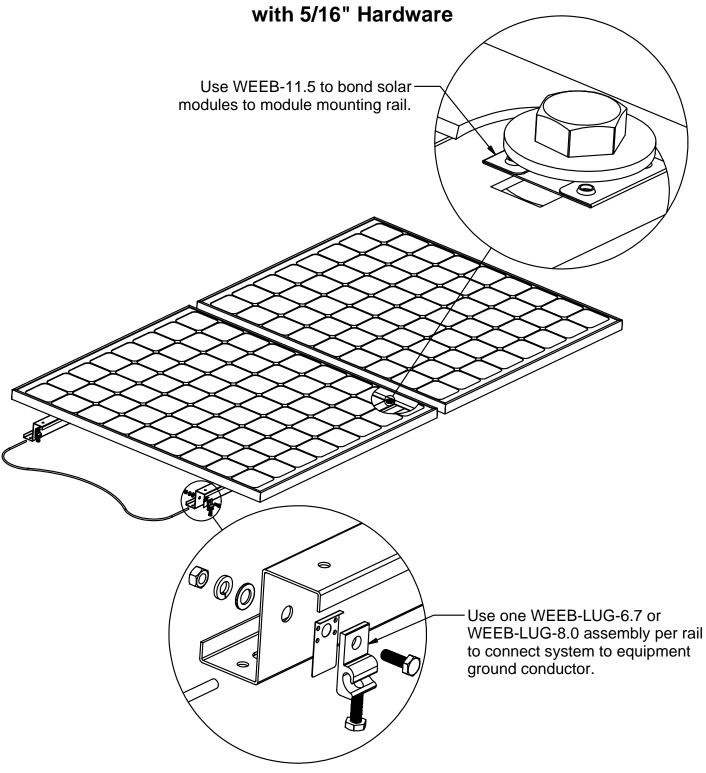
At least two teeth of WEEB-11.5 must embed to the module frame. At least two teeth of WEEB-UIR must embed to the module frame.





### SYSTEM OVERVIEW



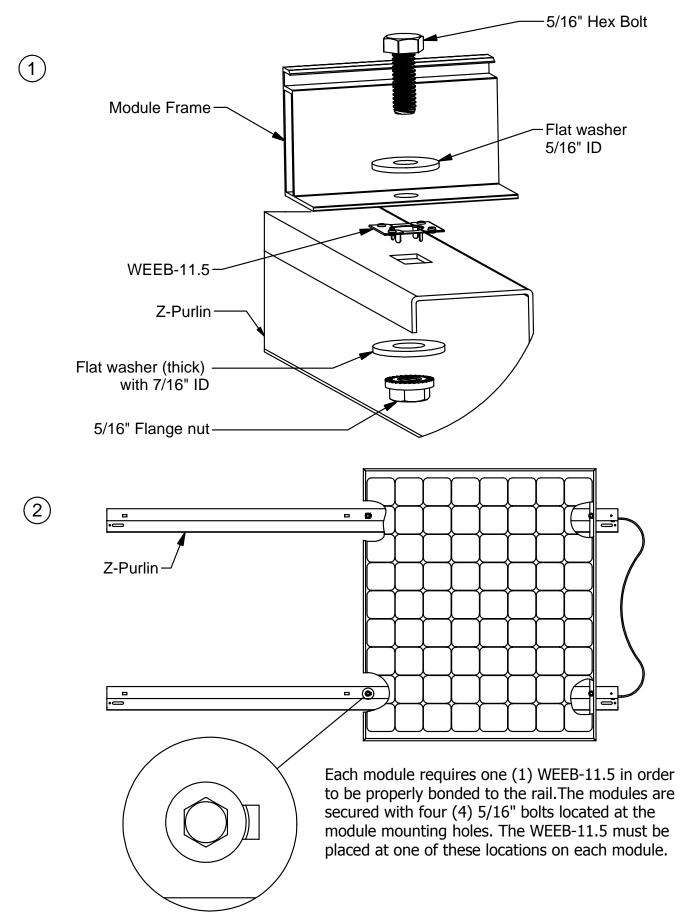


- 1. Use general purpose anti-seize compound on fastener threads when installing WEEB® washers (unless already pre-applied).
- 2. The NEC section 690.43 states "Exposed non-current carrying metal parts of module frames, equipment, and conductor enclosures shall be grounded in accordance with 250.134 or 250.136(A) regardless of voltage".





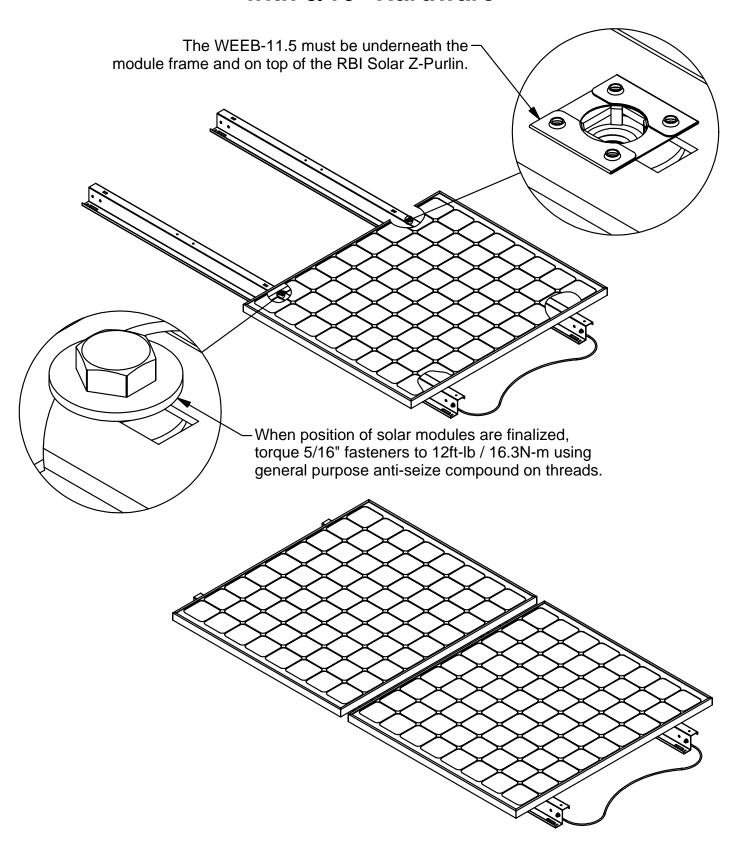
# WEEB-11.5 ASSEMBLY Modules in Portrait Configuration with 5/16" Hardware







# WEEB-11.5 ASSEMBLY Modules in Portrait Configuration with 5/16" Hardware

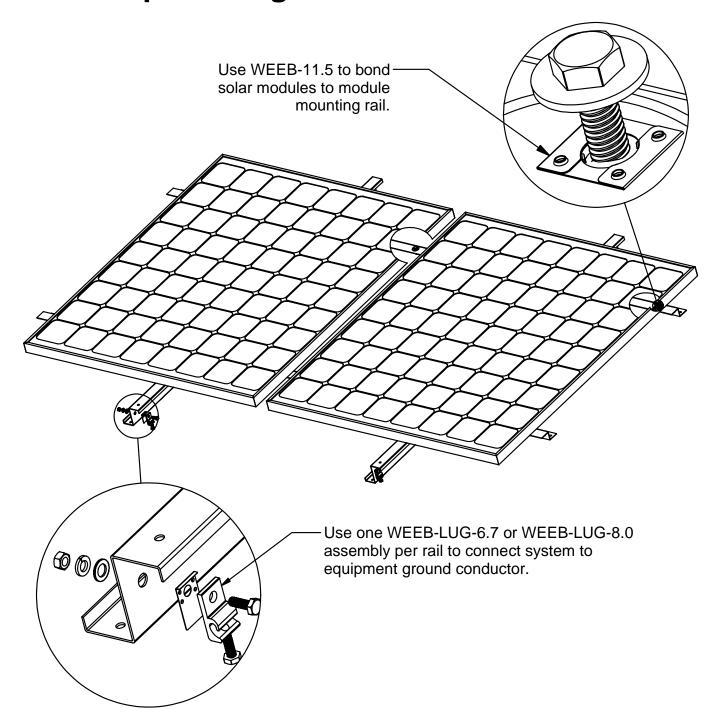


### Important note:





# SYSTEM OVERVIEW WEEB-11.5 and Modules in Landscape Configuration with 5/16" Hardware

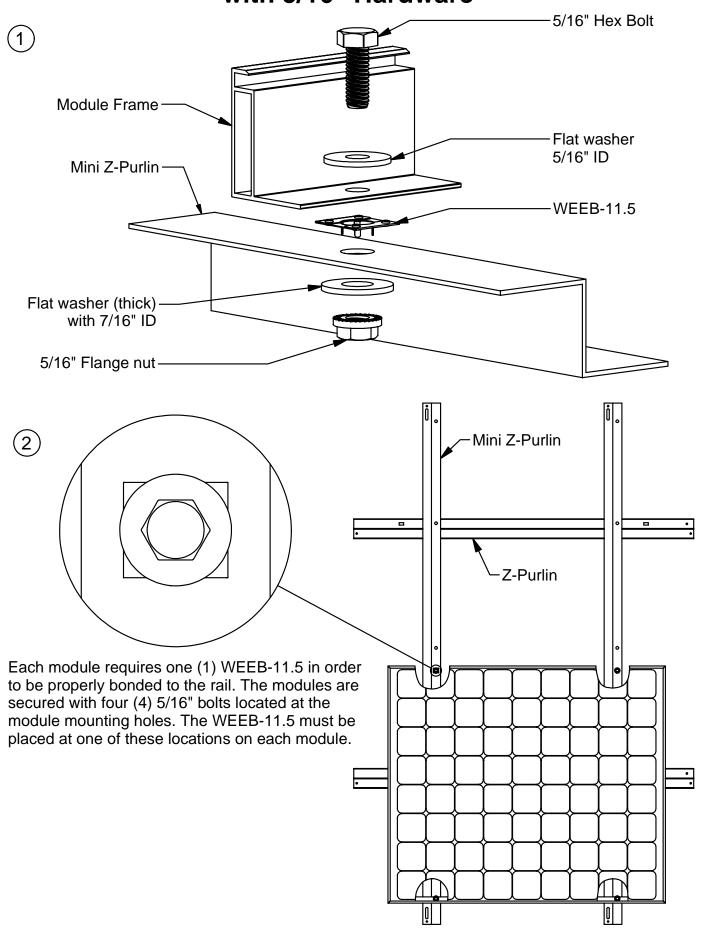


- 1. Use general purpose anti-seize compound on fastener threads when installing WEEB® washers (unless already pre-applied).
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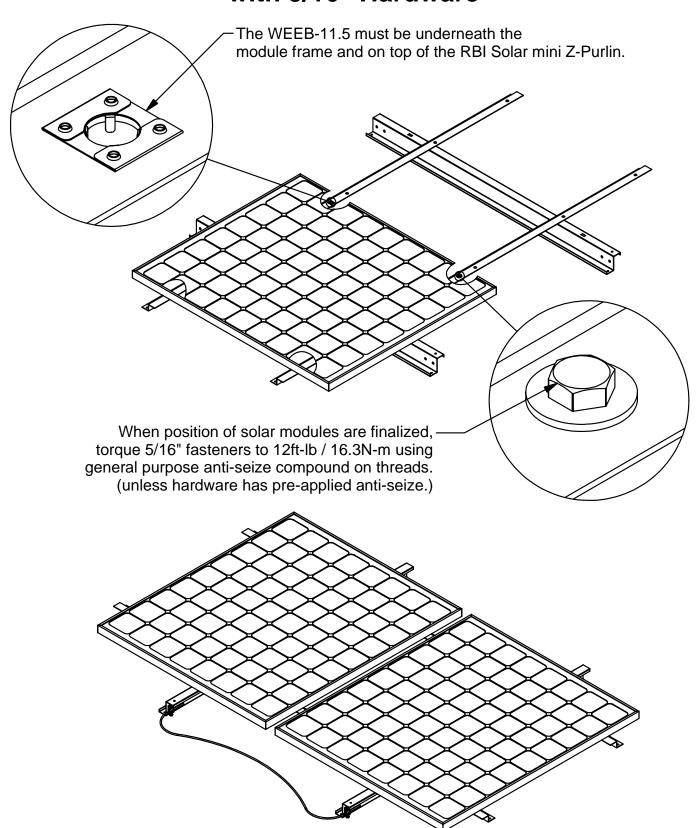
# WEEB-11.5 ASSEMBLY Modules in Landscape Configuration with 5/16" Hardware







# WEEB-11.5 ASSEMBLY Modules in Landscape Configuration with 5/16" Hardware



## Important note:



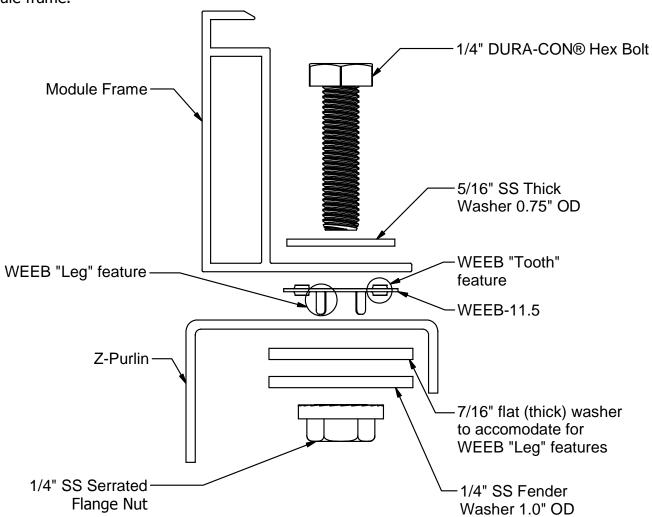


### **WEEB-11.5 COMPATIBILITY**

The WEEB® washer family of products can be used to bond anodized aluminum, galvanized steel, steel, and other electrically conductive metal structures. Metal racking components conforming to ASTM A653, A1046, and A792 standards have been evaluated and may be used in systems utilizing the WEEB® washer family of products. 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.

### **Bottom Mounting Modules requiring 1/4" Hardware**

The WEEB® washers used for bonding the PV modules to the mounting rails are compatible with various cross-sections of module frames. The following is an example of a module frame that is compatible. Notice that the WEEB® washer teeth are positioned completely under the edge of the module frame.



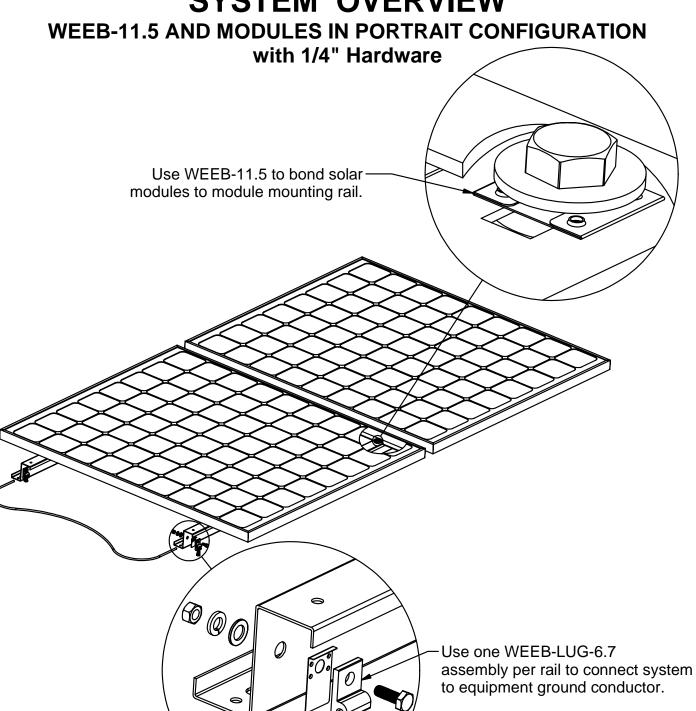
#### Note:

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**

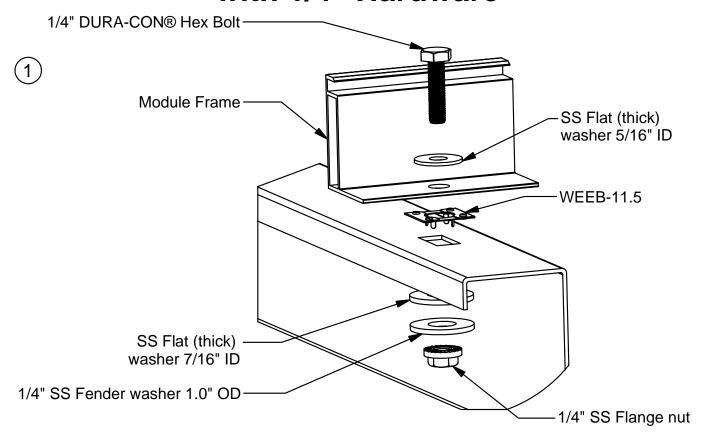


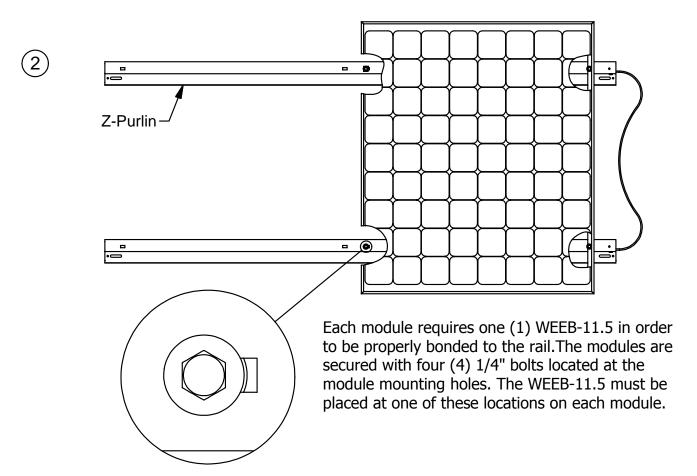
- 1. Use general purpose anti-seize compound on fastener threads when installing WEEB® washers. (unless anti-seize is pre-applied. Note: DURA-CON® fasteners do not require anti-seize compound.)
- 2. The NEC section 690.43 states "Exposed non-current carrying metal parts of module frames, equipment, and conductor enclosures shall be grounded in accordance with 250.134 or 250.136(A) regardless of voltage".





# WEEB-11.5 ASSEMBLY Modules in Portrait Configuration with 1/4" Hardware

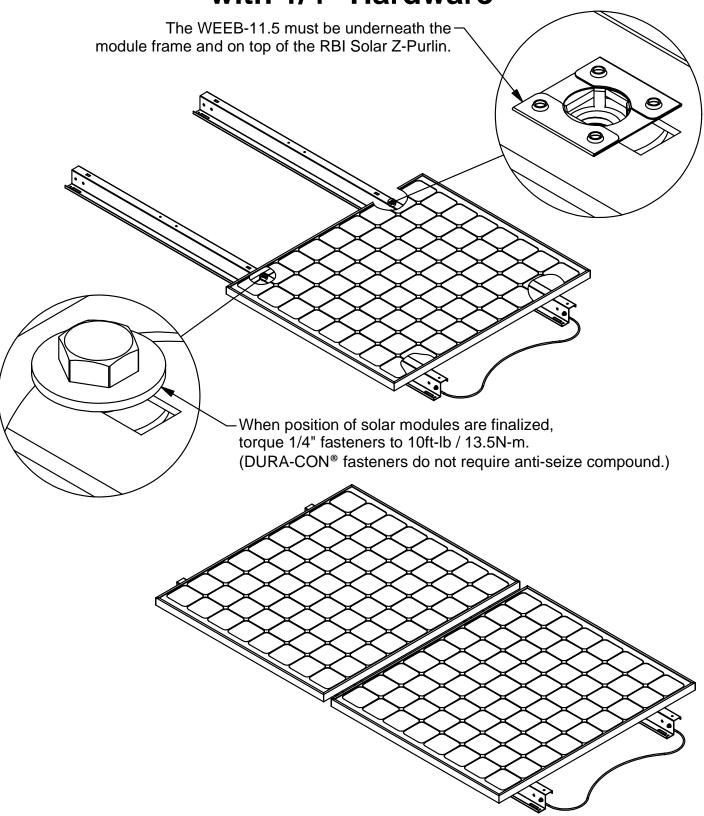








# WEEB-11.5 ASSEMBLY Modules in Portrait Configuration with 1/4" Hardware



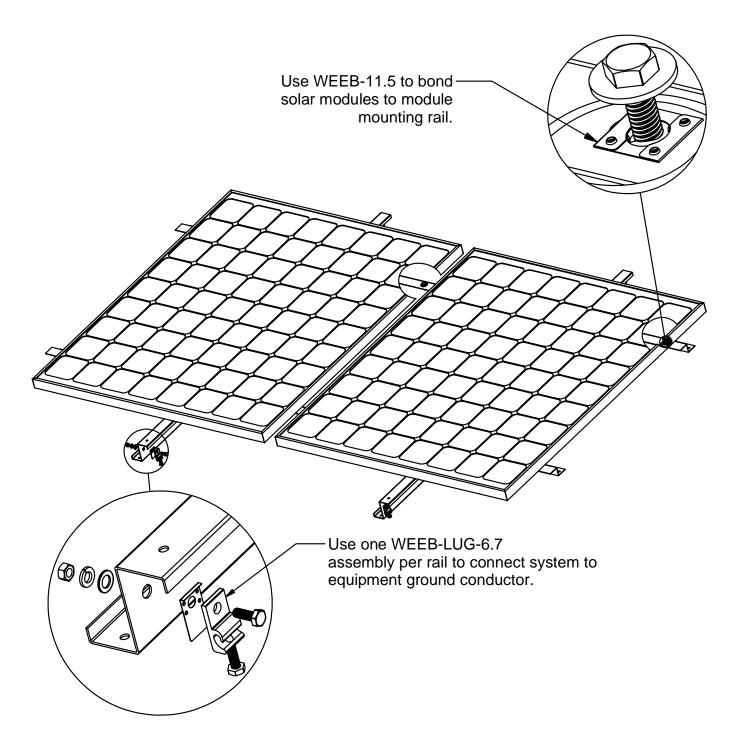
## Important note:





### **SYSTEM OVERVIEW**

# WEEB-11.5 AND MODULES IN LANDSCAPE CONFIGURATION with 1/4" Hardware

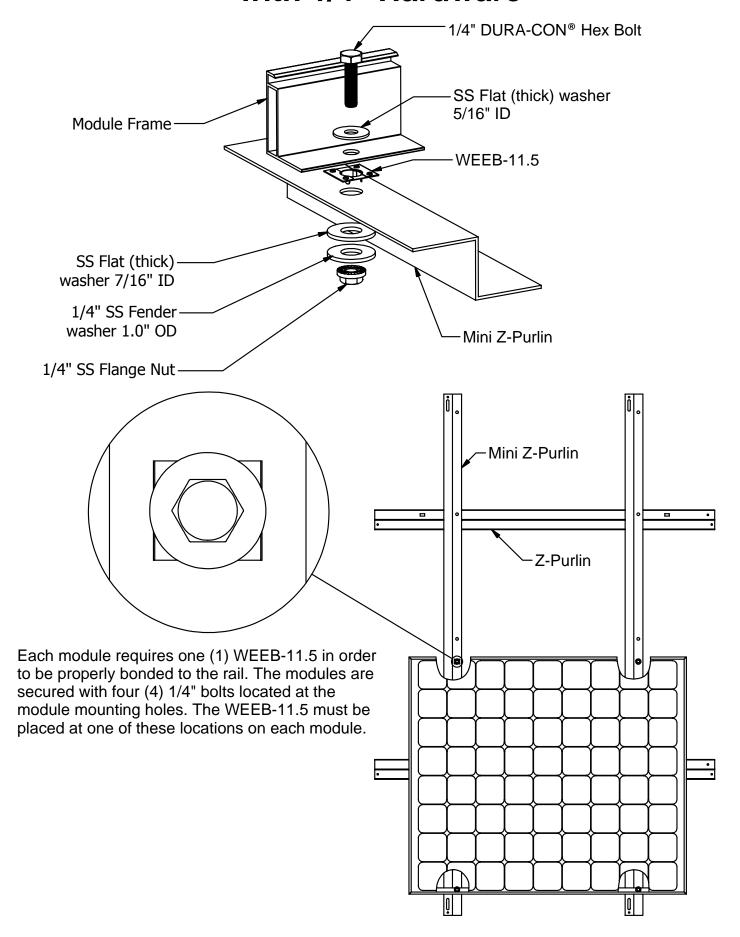


- 1. Use general purpose anti-seize compound on fastener threads when installing WEEB® washers. (unless anti-seize is pre-applied. Note: DURA-CON® fasteners do not require anti-seize compound.)
- 2. The NEC section 690.43 states "Exposed non-current carrying metal parts of module frames, equipment, and conductor enclosures shall be grounded in accordance with 250.134 or 250.136(A) regardless of voltage".





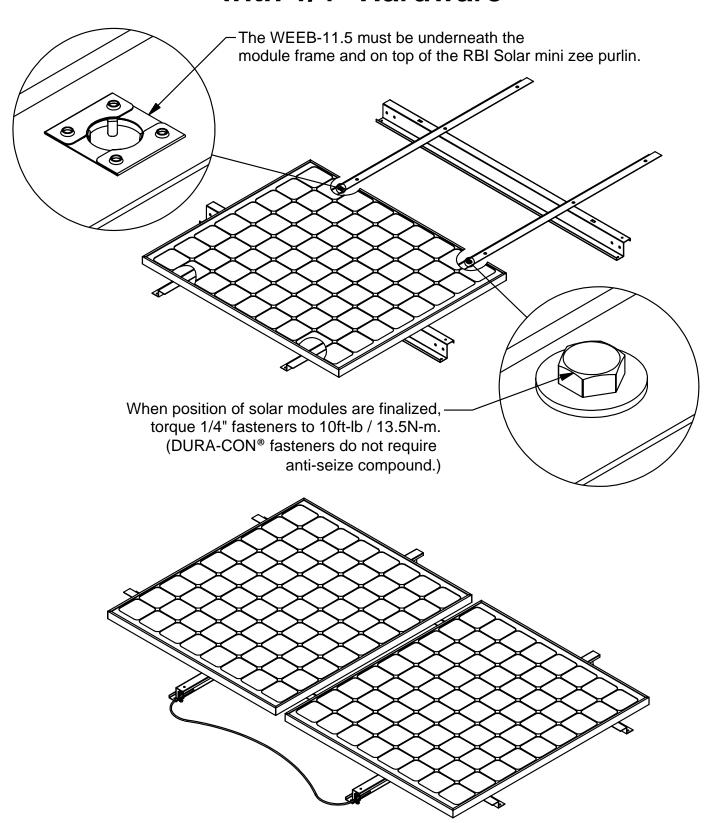
# WEEB-11.5 ASSEMBLY Modules in Landscape Configuration with 1/4" Hardware







# WEEB-11.5 ASSEMBLY Modules in Landscape Configuration with 1/4" Hardware



# Important note:



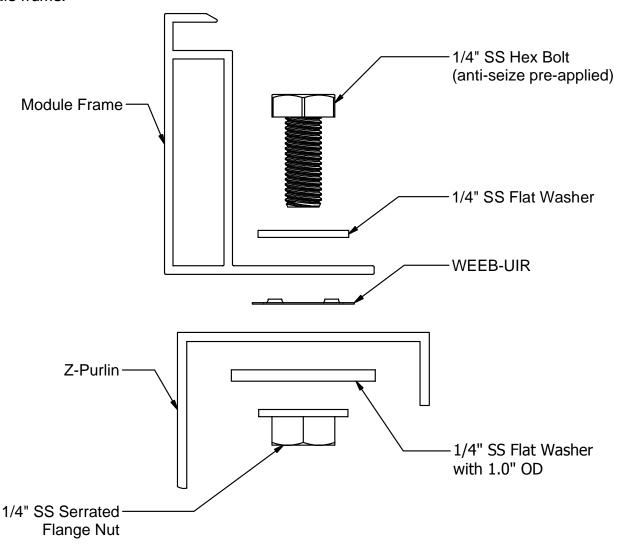


### WEEB-UIR COMPATIBILITY

The WEEB® washer family of products can be used to bond anodized aluminum, galvanized steel, steel, and other electrically conductive metal structures. Metal racking components conforming to ASTM A653, A1046, and A792 standards have been evaluated and may be used in systems utilizing the WEEB® washer family of products. 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.

### **Bottom Mounting Modules requiring 1/4" Hardware**

The WEEB® washers used for bonding the PV modules to the mounting rails are compatible with various cross-sections of module frames. The following is an example of a module frame that is compatible.Notice that the WEEB® washer teeth are positioned completely under the edge of the module frame.



#### Note:

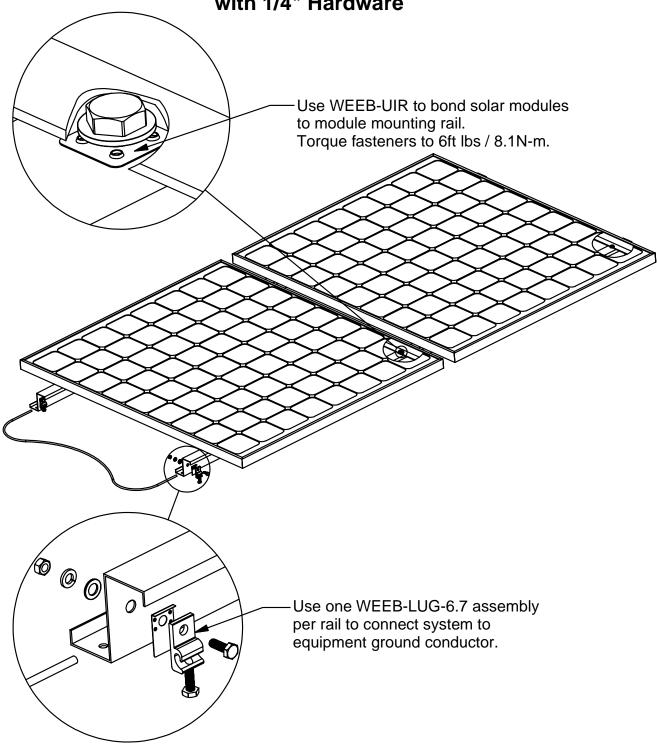
Inspect each module frame used with a WEEB® device to ensure that the bottom mounting face of the frame is flat, and that there are no hindrances to embedding WEEB® washer teeth. Do not use a module with a frame that prevents the WEEB® washer teeth from embedding fully.





### SYSTEM OVERVIEW

# WEEB-UIR AND MODULES IN PORTRAIT CONFIGURATION with 1/4" Hardware

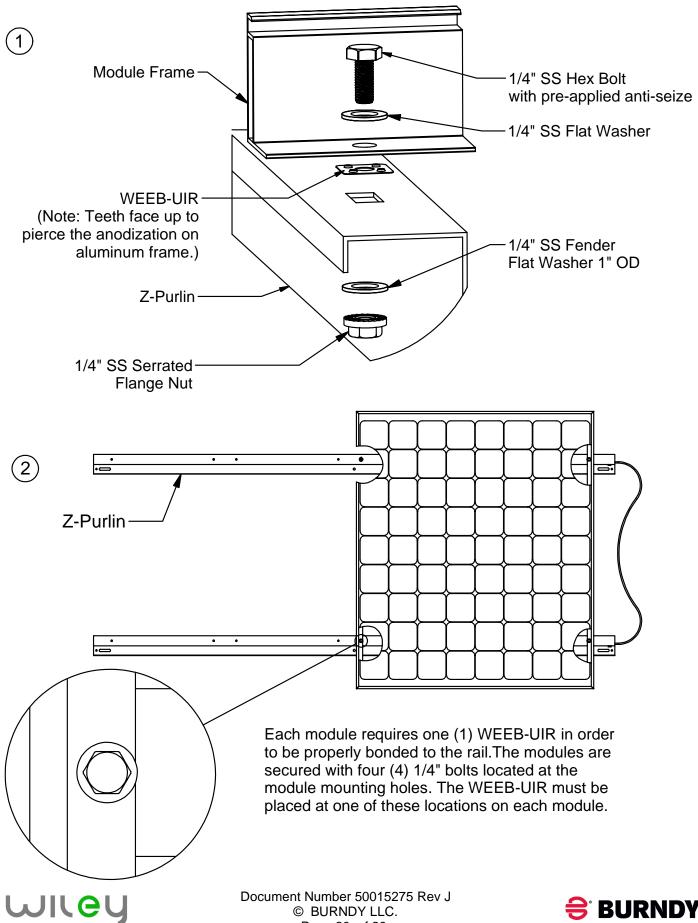


- 1. Use general purpose anti-seize compound on fastener threads when installing WEEB® washers (unless already pre-applied).
- 2. The NEC section 690.43 states "Exposed non-current carrying metal parts of module frames, equipment, and conductor enclosures shall be grounded in accordance with 250.134 or 250.136(A) regardless of voltage".



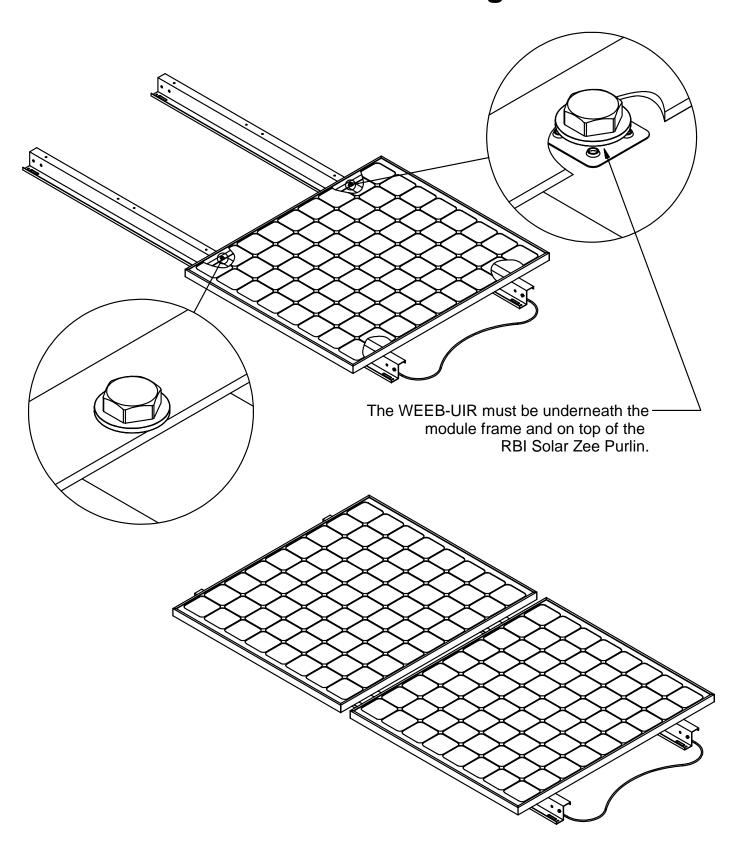


# **WEEB-UIR ASSEMBLY Modules in Portrait Configuration** with 1/4" Hardware





# WEEB-UIR ASSEMBLY Modules in Portrait Configuration



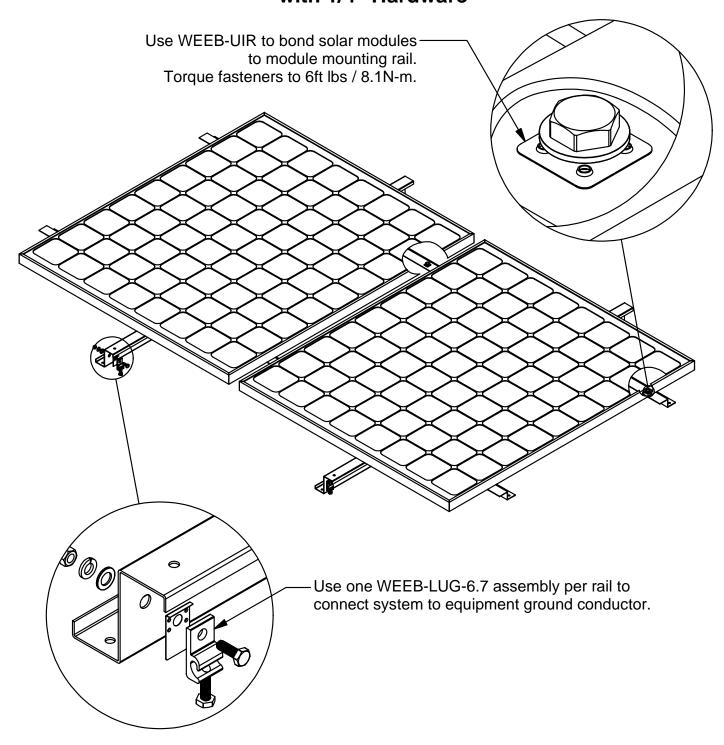
## Important note:





### SYSTEM OVERVIEW

# WEEB-UIR AND MODULES IN LANDSCAPE CONFIGURATION with 1/4" Hardware

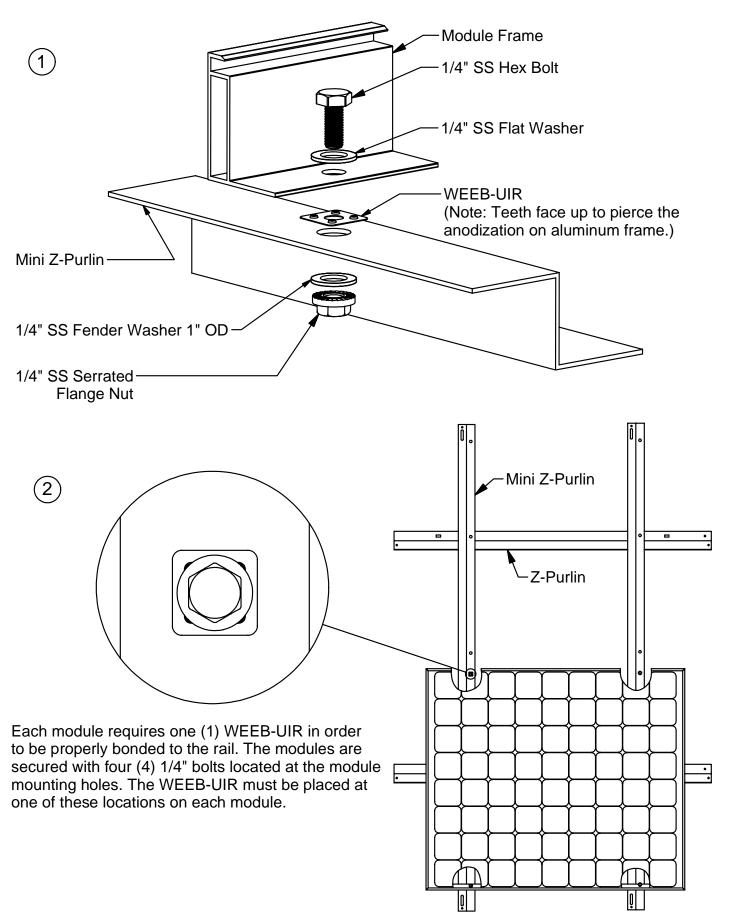


- 1. Use general purpose anti-seize compound on fastener threads when installing WEEB® washers (unless already pre-applied).
- 2. The NEC section 690.43 states "Exposed non-current carrying metal parts of module frames, equipment, and conductor enclosures shall be grounded in accordance with 250.134 or 250.136(A) regardless of voltage".





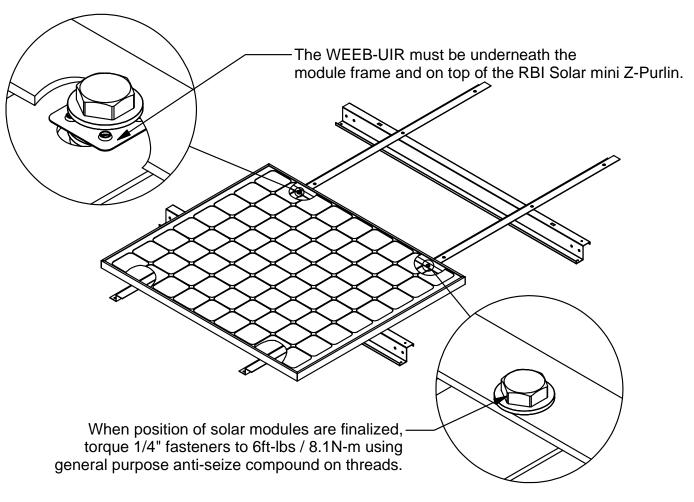
# WEEB-UIR ASSEMBLY Modules in Landscape Configuration with 1/4" Hardware

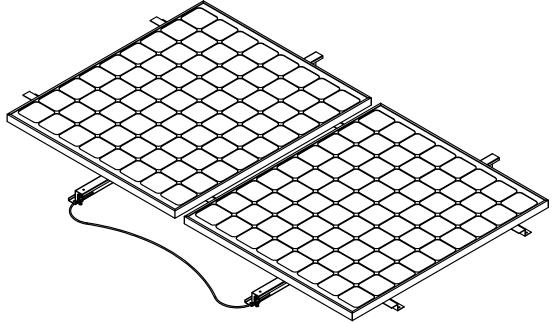






# WEEB-UIR ASSEMBLY Modules in Landscape Configuration





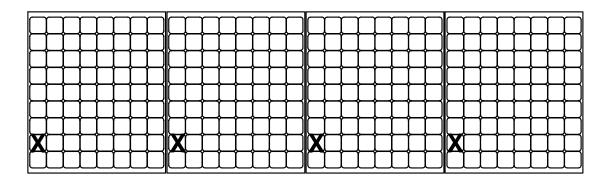
# **Important note:**





### **WEEB-11.5 OR WEEB-UIR LAYOUT**

#### **EVEN NUMBER OF MODULES IN ROW**

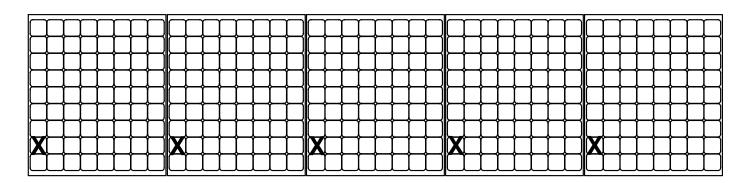


X DENOTES PLACES TO INSTALL WEEB-11.5 OR WEEB-UIR

COLUMN X ROW = C X R = 4 X 1 = 4

WEEB-11.5 OR WEEB-UIR NEEDED = 4

### **ODD NUMBER OF MODULES IN ROW**



X DENOTES PLACES TO INSTALL WEEB-11.5 OR WEEB-UIR

COLUMN X ROW = C X R = 5 X 1 = 5

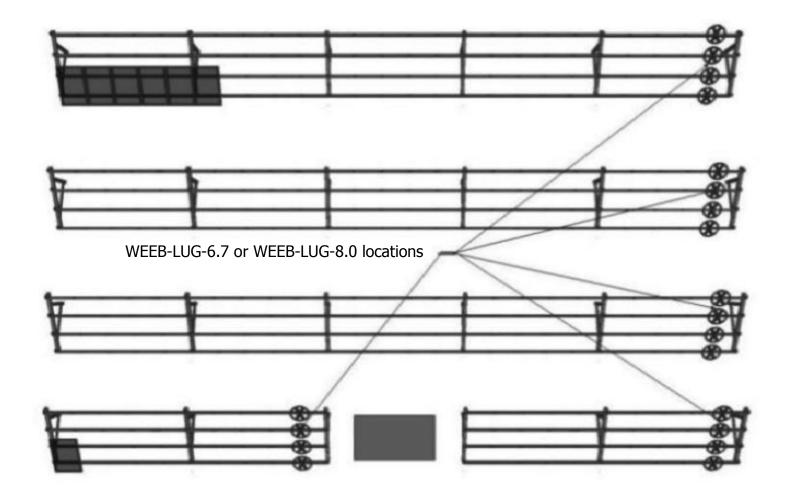
WEEB-11.5 OR WEEB-UIR NEEDED = 5





## WEEB-LUG-6.7 or WEEB-LUG-8.0 LOCATIONS

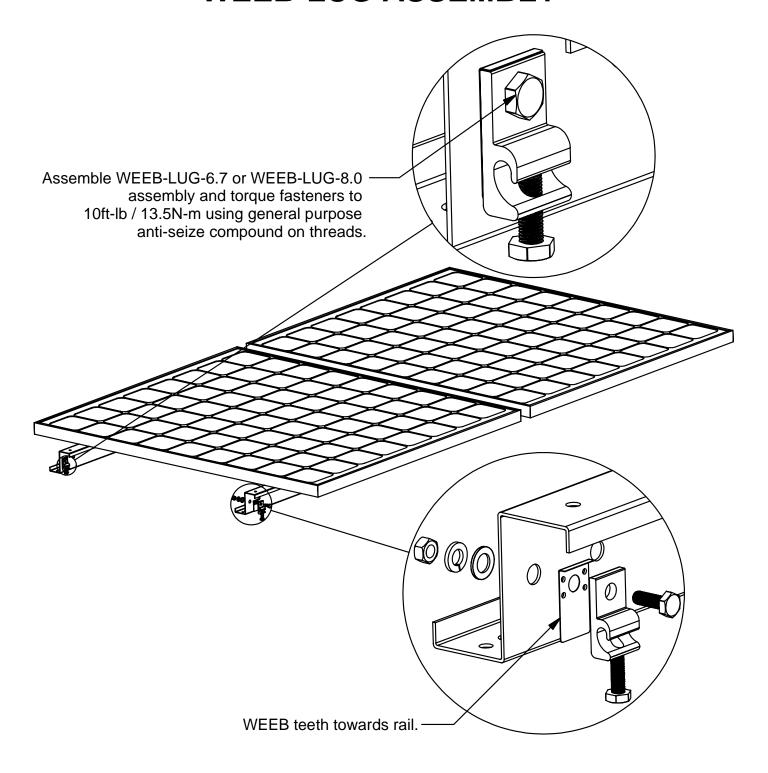
Install WEEB-LUG-6.7 or WEEB-LUG-8.0 at the following marked locations.







### **WEEB-LUG ASSEMBLY**

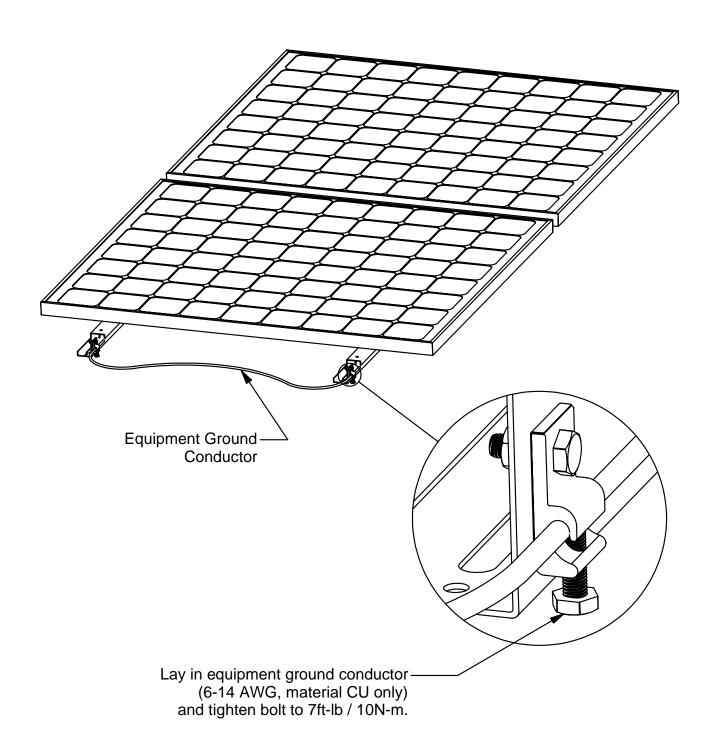


- 1. The location of the WEEB-LUG-6.7 or WEEB-LUG-8.0 is the same regardless of module orientation.
- 2. The WEEB-6.7 and WEEB-8.0 that are located underneath the WEEB-LUG-6.7 and WEEB-LUG-8.0 respectively. Ensure position is correct before tightening the hardware.
- 3. The WEEB-LUG-6.7 may be used with a maximum equipment ground wire of 6 AWG.





### **GROUND CONDUCTOR ASSEMBLY**



#### **Customer Service Department**

7 Aviation Park Drive Londonderry, NH 03053 1-800-346-4175 1-603-647-5299 (International)



