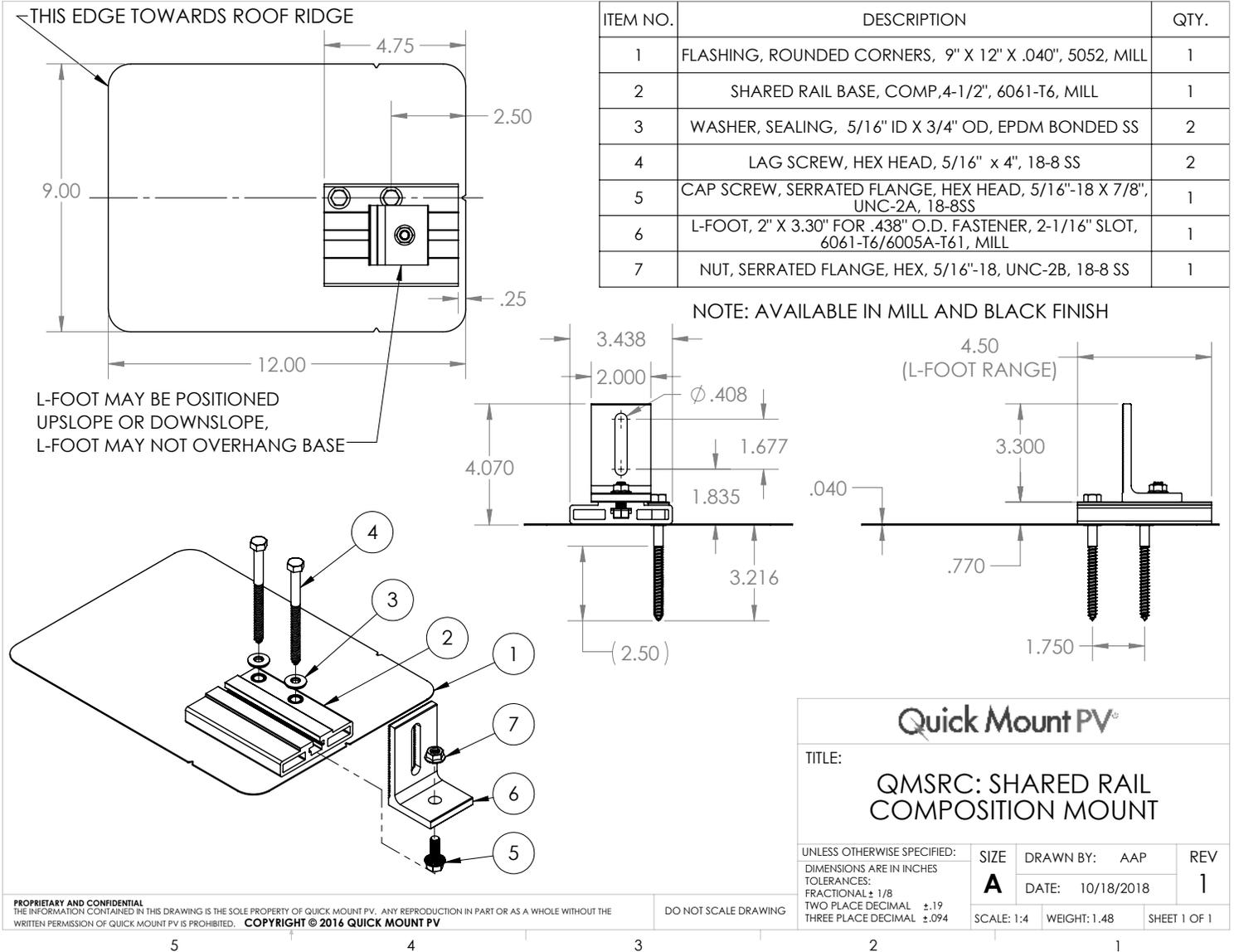


Shared Rail Composition Mount | QMSRC

Elevated Water Seal Technology®

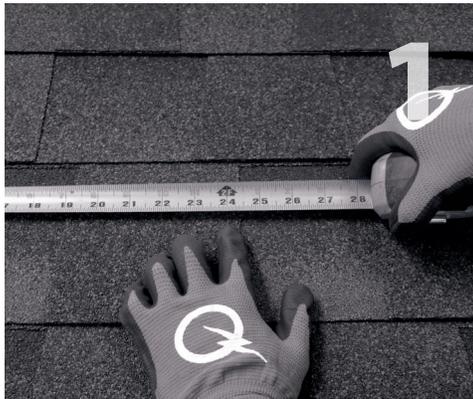


Quick Mount PV®
RESPECT THE ROOF

Shared Rail Composition Mount Installation Instructions

Installation Tools Required: tape measure, roofing bar, chalk line, stud finder, caulking gun, sealant compatible with roofing materials, drill with 7/32" bit, impact gun with 1/2" socket.

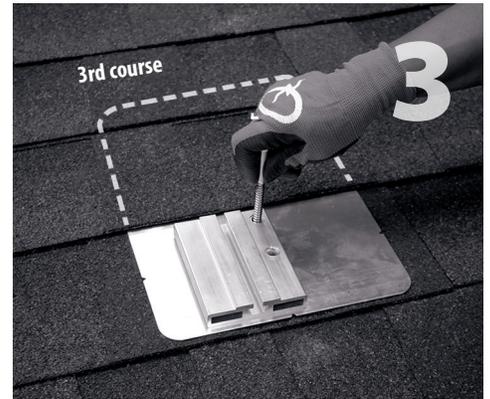
WARNING: Quick Mount PV products are NOT designed for and should NOT be used to anchor fall protection equipment.



1 Locate, choose, and mark centers of rafters to be mounted. Measure vertical module dimension plus 3/4 inch to determine mount placement. Snap a line to aid with L-foot alignment.



2 Carefully lift composition roof shingle with roofing bar, just above placement of mount. Remove nails as required and backfill holes with approved sealant. See "Proper Flashing Placement" on next page.



3 Insert flashing between 1st and 2nd course. Slide up so top edge of flashing is at least 3/4" higher than the butt-edge of the 3rd course and lower flashing edge is above the butt-edge of 1st course. Mark center of both holes for drilling.



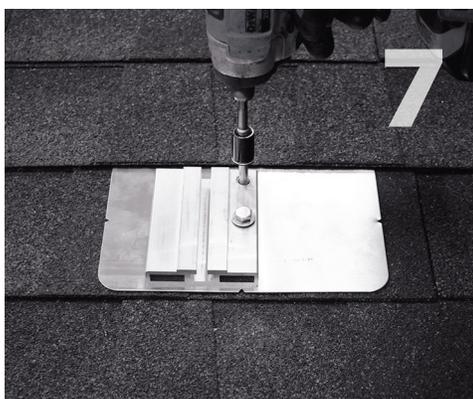
4 Drill pilot holes into roof and rafter using a with 7/32" bit, taking care to **drill square to the roof**. Do not use mount as a drill guide. Drill each hole 2.5" deep into rafter.



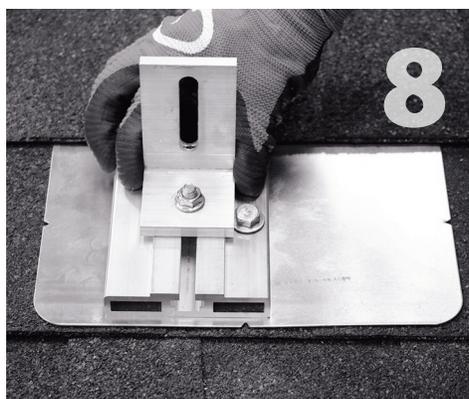
5 Clean off any sawdust, and fill hole with sealant compatible with roofing materials.



6 Slide flashing into position.



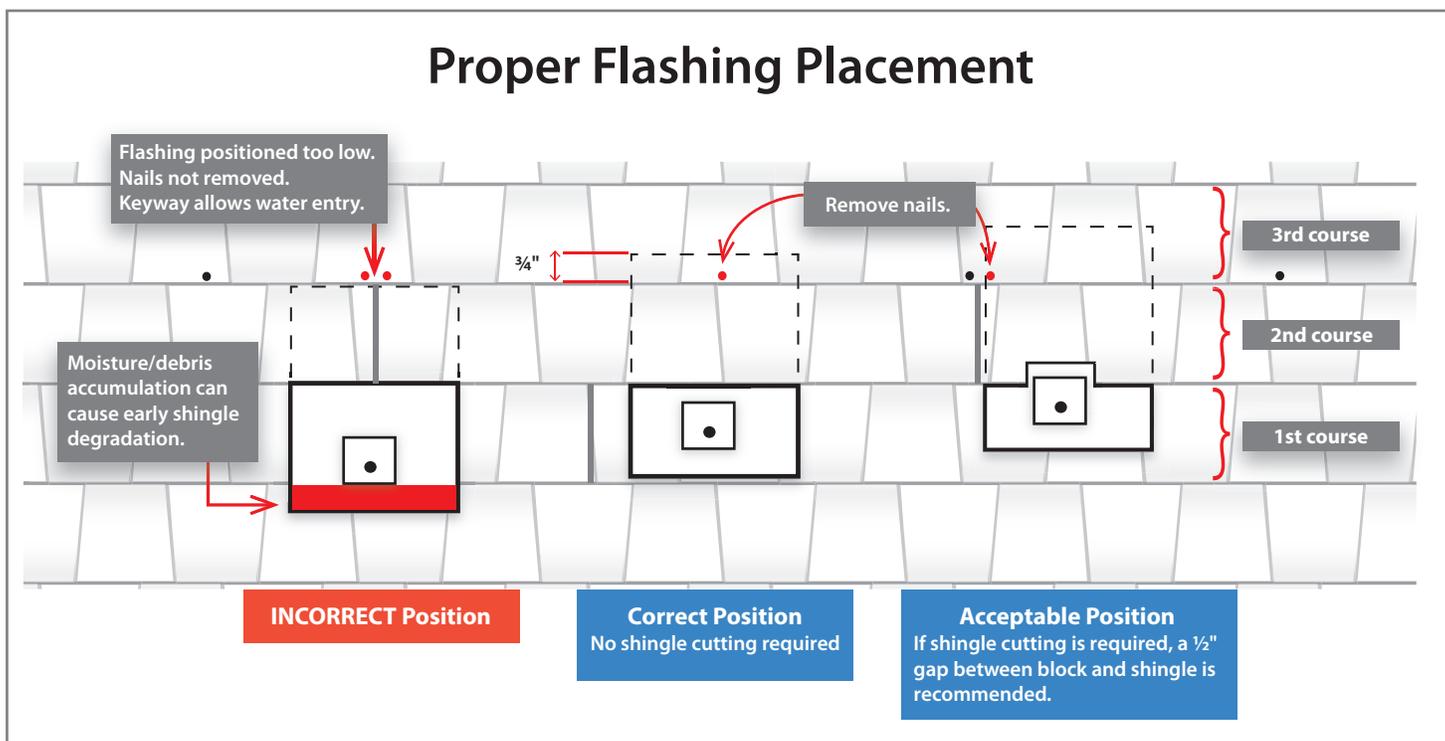
7 Prepare lag bolts with sealing washers. Using a 1/2-inch socket on an impact gun, drive prepared lag bolts into the mounting holes. Driving the bolts in evenly is recommended. **DO NOT over-torque or over-crush sealing washers.**



8 Using the racking kit hardware, secure the L-foot to the desired position on the mount. Torque racking HW to 13 ft-lbs.

All roofing manufacturers' written instructions must also be followed by anyone modifying a roof system. Consult the roof manufacturer's specs and instructions prior to working on the roof.

Reference and Tips



Additional tips and information for installing mounts:

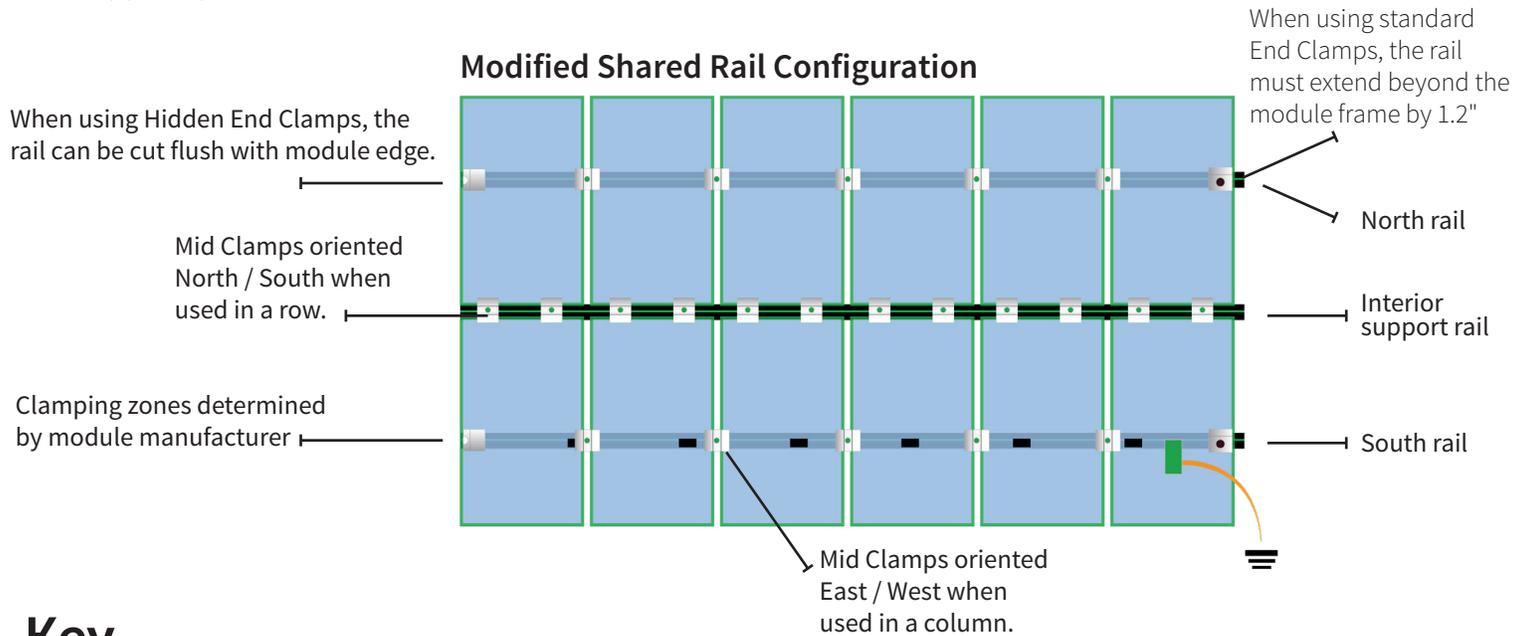
- n See Quick Tips videos on nail removal, and more at: <http://www.quickmountpv.com/support/videos.html>
- n It is not necessary or advisable to use nails or other fasteners to secure the perimeter of the flashing.
- n The Shared Rail Composition Mount is made to work with standard and high-definition composition/asphalt and wood shingle roofs with 5" to 5-5/8" courses.
- n Depending on the season and climate, size and location of seal tabs, and quality of the shingles, the seal tabs that adhere the shingle courses together may not effectively seal the shingles to the flashings. If this is the case, simply add several quarter-sized dabs of manufacturer accepted sealant or asphalt roofing cement, meeting ASTM D 4586 Type II, between the flashing and the shingle above.
- n Mounts should not be installed in areas of the roof susceptible to ice damming. Water ponding under the shingles can reach the bolt penetration.
- n Take care not to damage the roofing material while working on the roof. Removing stone granules and deforming the shingles in any way can shorten the lifespan of the roofing. The value of the solar array is directly affected by the condition of the roof it is attached to.
- n Caution: Prior to installation, check that proper screw embedment will be achieved for the necessary site load and roofing configurations.

Quick Start - Designing Shared Rail Using QRail

In addition to 2-rail and 3-rail configurations, QRail Standard-size rail and components can be designed in shared-rail and modified shared-rail configurations. Designing in these configurations reduces rows of penetrations as well as rail, and provides a simplified grounding method. The use of Quick Mount PV's Shared Rail Composition Mount (QMSRC) assists with alignment of the rows of rail by providing 4.5 inches of north / south adjustability of the L-Foot. When working with modified shared-rail configurations, it is possible to use Hidden End Clamps or Standard non-bonded End Clamps. When working with shared-rail configurations, End Clamps must be bonded.

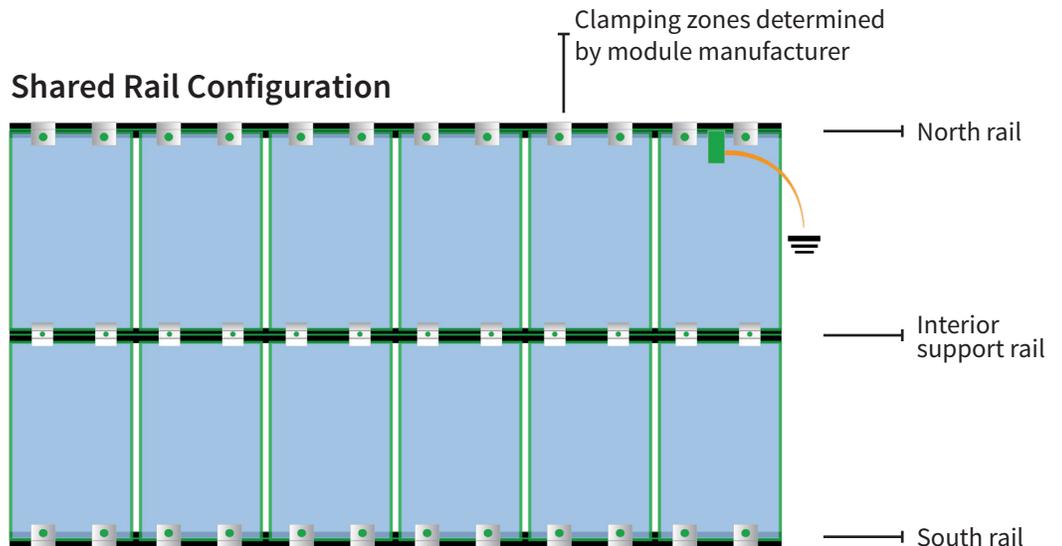
Interior rail can be cut in conformance with module manufacturer cantilever requirements.

NOTE: In addition to this Quick Start guide, refer to the QRail Installation Instructions and applicable Shared Rail Span Tables provided on the QRail Product Page. Shared Rail Span Tables are based on use of the Shared Rail Composition Mount (QMSRC).



Key

-  Standard QRail
-  End Clamp
-  End Clamp with WEEB BMC clip
-  Mid Clamp
-  Hidden End Clamp
-  Weeb Lug
-  Bonding Path



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