Quick Mount PV®

Installation Guide 703: QMCS SolarMount-I Mount v. 2.0

This product is intended to flash into new or existing asphalt or wood shingle roof systems with a maximum shingle exposure of 5½".



Quick Mount PV is an all-in-one waterproof flashing and mount to anchor SolarMount-I™ systems to a new or existing asphalt or wood shingle roof. It is made in the USA of all aluminum and includes stainless steel hardware. It installs seamlessly and saves labor by not needing to cut away any roofing. Quick Mount PV will also out-live galvanized 2 to 1, and is a better low-profile mount.

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Unirac welcomes input concerning the accuracy and user-friendliness of this publication. Please write to **publications@unirac.com.**

Unirac Installation Manual

Pub 100817-1ii
August 2010

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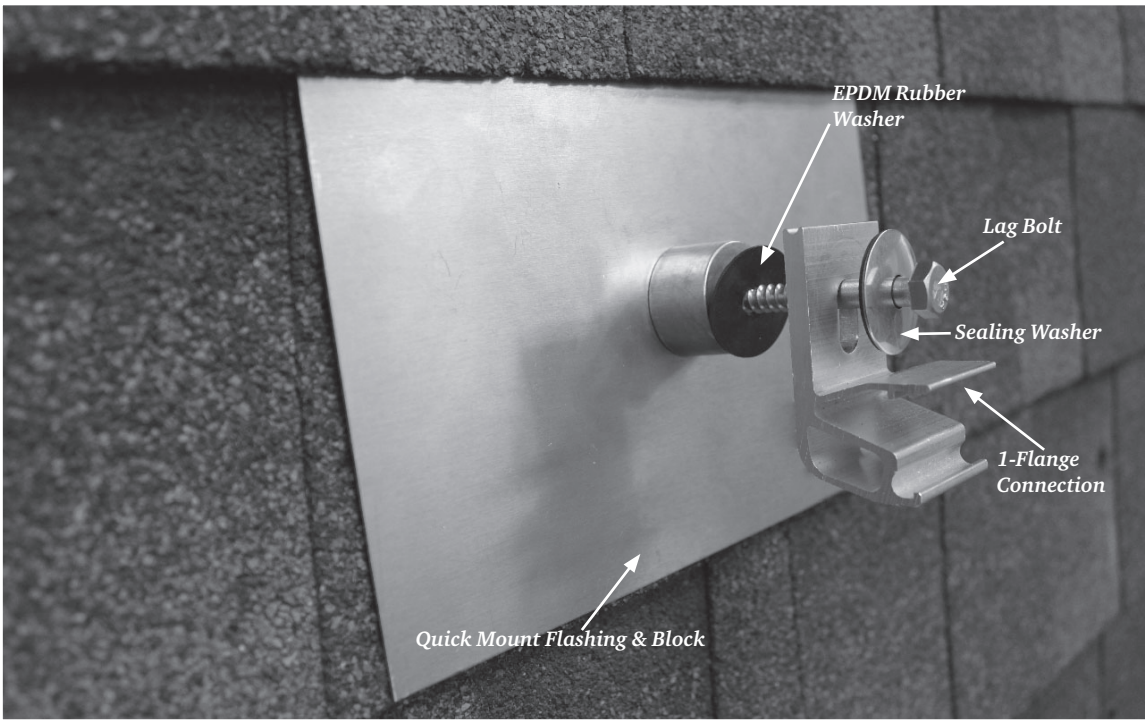
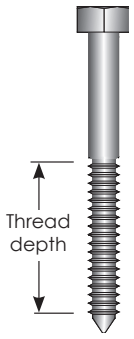


Table 1. Lag pull-out (withdrawal) capacities (lbs) in typical roof lumber (ASD)

		Lag screw specifications
	Specific gravity	*5/16" shaft,* per inch thread depth*
Douglas Fir, Larch	0.50	266
Douglas Fir, South	0.46	235
Engelmann Spruce, Lodgepole Pine (MSR 1650 f & higher)	0.46	235
Hem, Fir, Redwood (close grain)	0.43	212
Hem, Fir (North)	0.46	235
Southern Pine	0.55	307
Spruce, Pine, Fir	0.42	205
Spruce, Pine, Fir (E of 2 million psi and higher grades of MSR and MEL)	0.50	266



Sources: American Wood Council, NDS 2005, Table 11.2A, 11.3.2A.

Notes: (1) Thread must be embedded in the side grain of a rafter or other structural member integral with the building structure.

(2) Lag bolts must be located in the middle third of the structural member.

(3) These values are not valid for wet service.

(4) This table does not include shear capacities. If necessary, contact a local engineer to specifiy lag bolt size with regard to shear forces.

(5) Install lag bolts with head and washer flush to surface (no gap). Do not over-torque.

(6) Withdrawal design values for lag screw connections shall be multiplied by applicable adjustment factors if necessary. See Table 10.3.1 in the American Wood Council NDS for Wood Construction.

**Use flat washers with lag screws. Flat washers are not necessary with concealor screws.*

Tools Needed:

measuring tape
roofing bar
chalk line
stud finder
caulking gun with roofing sealant
drill with 1/4" diameter bit
drill with 1/2" deep socket



Installation:

1. LOCATE RAFTER

Using horizontal and vertical chalk lines, align holes for placement of each Quick Mount QMCS to rafter.

2. DRILL PILOT HOLE

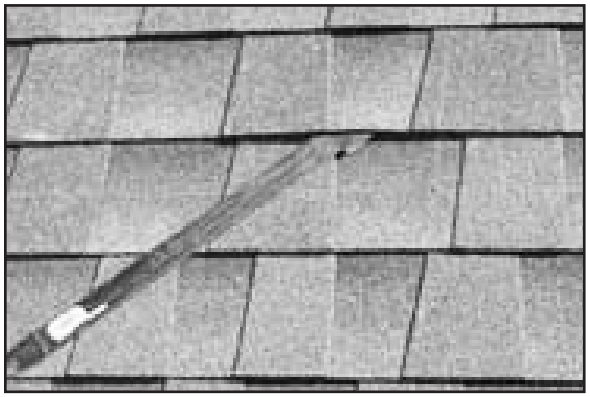
Using drill with ¼" long bit, drill pilot hole through roof and rafter, taking care to drill square to the roof.



* *Do not use the flashing as a drill guide*

3. LIFT SHINGLE

Lift composition roof shingle with roofing bar, just above placement of Quick Mount QMCS.



4. SEAL HOLE

Clean off any sawdust or debris, then, using caulking gun with roofing sealant, squeeze a dab of roofing sealant that is compatible with the roof type into the hole.



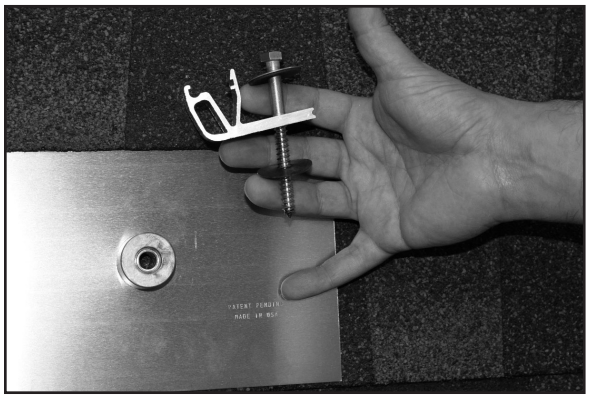
5. SLIDE QUICK MOUNT QMCS INTO PLACE

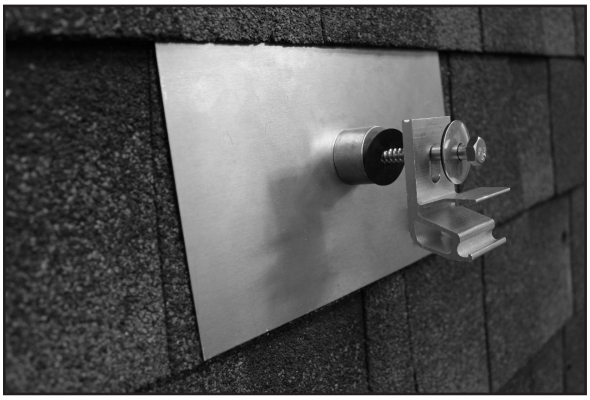
Lift comp shingle and slide Quick Mount QMCS into place.



6. ASSEMBLE AND ATTACH LAG BOLT ATTACHMENT

Assemble lag bolt with sealing washer, I-Flange Connection, and EPDM rubber washer as shown in the picture. Use drill with ½" deep socket to tighten flashing into place.





10 year limited Product Warranty, 5 year limited Finish Warranty

Warranty. Quick Mount PV, warrants to the original purchaser ("Purchaser") of product(s) that it manufactures ("Product") at the original installation site that the Product shall be free from defects in material and workmanship for a period of ten (10) years, except for the anodized finish, which finish shall be free from visible peeling, or cracking or chalking under normal atmospheric conditions for a period of five (5) years, from the earlier of 1) the date the installation of the Product is completed, or 2) 30 days after the purchase of the Product by the original Purchaser ("Finish Warranty"). The Finish Warranty does not apply to any foreign residue deposited on the finish. All installations in corrosive atmospheric conditions (including without limitation, chemical fumes, salt water and wind-blown sand) are excluded. The Finish Warranty is VOID if the practices specified by AAMA 609 & 610-02 – "Cleaning and Maintenance for Architecturally Finished Aluminum" (www.aamanet.org) are not followed by Purchaser. This Warranty does not cover damage to the Product that occurs during its shipment, storage, or installation. This Warranty shall be VOID if installation of the Product is not performed in accordance with Quick Mount PV's written installation instructions, or if the Product has been modified, repaired, or reworked in a manner not previously authorized by Quick Mount PV IN WRITING, or if the Product is installed in an environment for which it was not designed. If within the specified Warranty periods the Product shall be reasonably proven to be defective, then Quick Mount PV shall repair or replace the defective Product, or any part thereof, in Quick Mount PV's sole discretion. Such repair or replacement shall completely satisfy and discharge all of Quick Mount PV's liability with respect to this limited Warranty and shall be the Purchaser's sole and exclusive remedy. Any repair or replacement of the Product under this Warranty shall be warranted as provided herein only for the remaining term of this Warranty as provided for the original Product. Manufacturers of related items, such as PV modules and racking, may provide written warranties of their own. Quick Mount PV's limited Warranty covers only its Product, and not any related items.

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This Warranty and the parties' rights herein are exclusively governed by and construed in accordance with the laws of the State of California, United States of America, without regard to the laws of any other state or country. The State and federal courts located in Contra Costa County, California shall be the exclusive venue for any legal action relating to this Warranty and Purchaser hereby agrees to the jurisdiction of such courts.

All claims made under this warranty must be submitted to Quick Mount PV in writing to the address below within 30 days after Purchaser's discovery the subject defect or problem or the warranty claim will be barred.

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