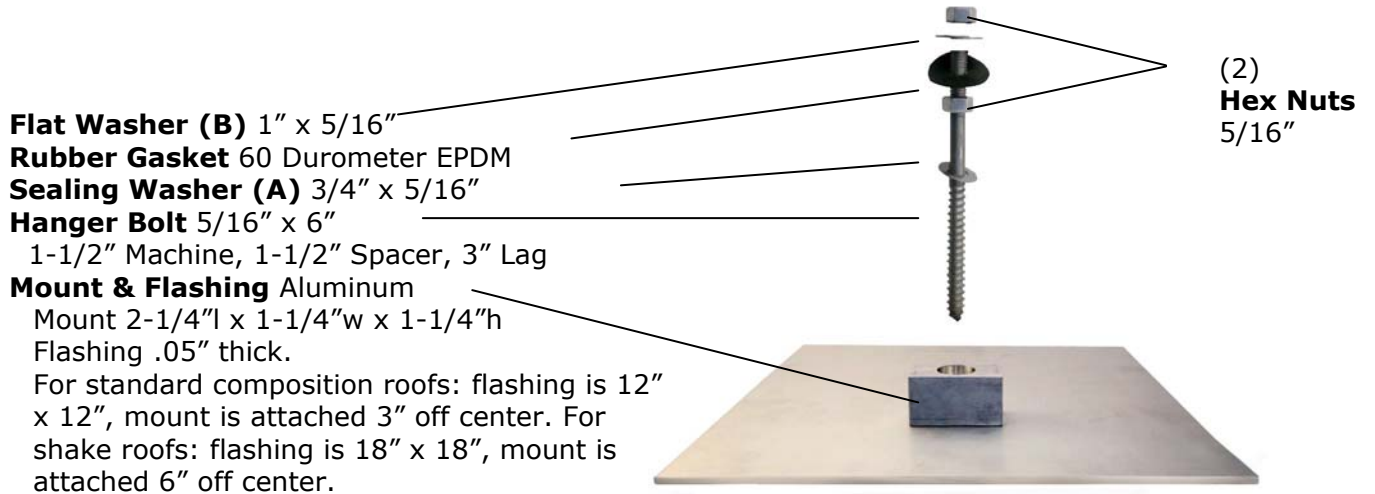




Specification Sheet

An all-in-one waterproof flashing and mount to anchor photovoltaic racking systems, solar thermal panels, air conditioning units, satellite dishes, or anything you may need to secure to a new or existing roof. It is made in the USA of all aluminum and includes stainless steel hardware. It works with all standard racks, installs seamlessly and saves labor by not needing to cut away any roofing, will out live galvanized 2 to 1, and is a better low-profile mount.



- Flat Washer (B)** 1" x 5/16"
- Rubber Gasket** 60 Durometer EPDM
- Sealing Washer (A)** 3/4" x 5/16"
- Hanger Bolt** 5/16" x 6"
1-1/2" Machine, 1-1/2" Spacer, 3" Lag
- Mount & Flashing** Aluminum
Mount 2-1/4"l x 1-1/4"w x 1-1/4"h
Flashing .05" thick.
For standard composition roofs: flashing is 12" x 12", mount is attached 3" off center. For shake roofs: flashing is 18" x 18", mount is attached 6" off center.

(2)
Hex Nuts
5/16"

Lag pull-out (withdrawal) capacities (lbs) in typical lumber:

	Specific gravity	Lag screw specifications	
		5/16" shaft* 3" thread depth	5/16" shaft* per 1" thread depth
Douglas Fir, Larch	.50	798	266
Douglas Fir, South	.46	705	235
Engelmann Spruce, Lodgepole Pine (MSR 1650 f & higher)	.46	705	235
Hem, Fir	.43	636	212
Hem, Fir. (North)	.46	705	235
Southern Pine	.55	921	307
Spruce, Pine, Fir	.42	615	205
Spruce, Pine, Fir (E of 2 million psi and higher grades of MSR and MEL)	.50	798	266

Sources: Uniform Building Code; American Wood Council
 Notes: 1) Thread must be embedded in a rafter or other structural roof member.
 2) Pull-out values incorporate a 1.6 safety factor recommended by the American Wood Council.
 3) See UBC for required edge distances.
 *Use flat washers with lag screws.

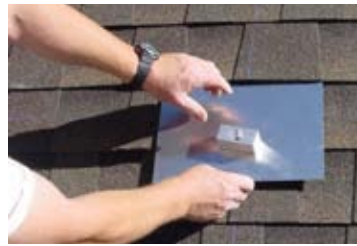


TOOLS NEEDED

Measuring tape, roofer's flat bar, chalk line, stud finder, caulking gun with roofing sealant, drill with 1/4" long bit, drill with 1/2" deep socket.

1. LOCATE RAFTER

Using horizontal and vertical chalk lines to align hole for placement of each Mount



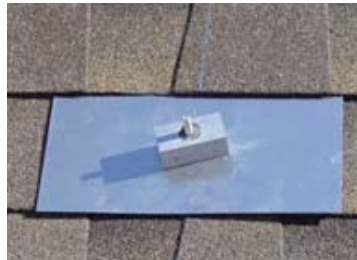
5. SLIDE MOUNT INTO PLACE

Lift comp tile and slide Mount into place.



6. SET HANGER BOLT, SEALING WASHER & NUT

Using drill with 1/2" deep deep socket, set sealing washer with rubber side down, then nut, and tighten into place.



7. ADD RUBBER GASKET

Push black gasket into place flush with top of Mount block.



8. SECURE RACK INTO PLACE, WITH FLAT WASHER & NUT

Using drill with 1/2" deep socket, set up rack over bolt, with flat washer, then nut, and tighten into place.

2. DRILL PILOT HOLE

Using drill with 1/4" long bit, drill pilot hole through roof and rafter, taking care to drill square to the roof.



3. LIFT TILE

Lift composition roof tile with roofers flat bar, just above placement of Mount.



4. SEAL HOLE

Using caulking gun with roofing sealant, squeeze a dab of roofing sealant into hole.

