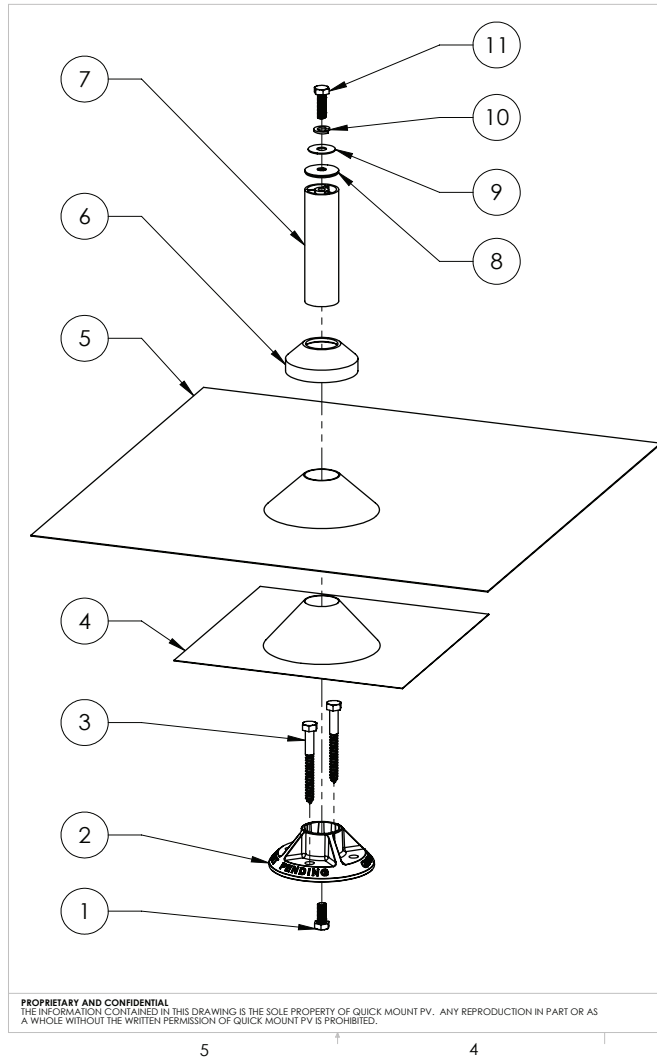


# QBase® Standard Flat Tile Mount | QMSFT



ITEM NO.	DESCRIPTION	QTY.
1	CAP SCREW, HEX HEAD, 5/16"-18 X 3/4" UNC-2A, GRADE 8	1
2	QBASE, 1-1/4" ID, FOR 5/16" HARDWARE, A360.1 CAST AL	1
3	LAG SCREW, HEX HEAD, 5/16" X 3", ZINC	2
4	SUB-FLASHING, SPUN CONE, 9"X9"X.020", 3003 AL, MILL	1
5	FLASHING, SPUN CONE, 18"X18"X.032", 3003 AL, MILL	1
6	COLLAR, COUNTER FLASHING, 1-1/4" ID EPDM	1
7	POST, 1.25" OD X 4.5", 6063-T5/6063-T6, MILL	1
8	WASHER, SEALING, 5/16" ID X 1-1/4" OD, EPDM BONDED SS	1
9	WASHER, FENDER, 5/16" ID X 1" OD, 18-8 SS	1
10	WASHER, SPLIT-LOCK, 5/16" ID, 18-8 SS	1
11	CAP SCREW, HEX HEAD, 5/16"-18 X 1" UNC-2A, 18-8 SS	1

AVAILABLE IN MILL FINISH, CLEAR ANODIZED,  
AND BRONZE ANODIZED FINISHES

STAINLESS STEEL LAG SCREWS INCLUDED WITH ANODIZED FINISHES

Quick Mount PV®

TITLE:

QMSFT: QBASE STANDARD FLAT  
TILE MOUNT

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL ± 1/8

TWO PLACE DECIMAL ±.18

THREE PLACE DECIMAL ±.125

SIZE  
**A**

DRAWN BY: RAD  
DATE: 6/19/2015

REV  
**4**

SCALE: 1:5

WEIGHT: 2.16

SHEET 1 OF 2

PROPRIETARY AND CONFIDENTIAL  
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF QUICK MOUNT PV. ANY REPRODUCTION IN PART OR AS  
A WHOLE WITHOUT THE WRITTEN PERMISSION OF QUICK MOUNT PV IS PROHIBITED.

DO NOT SCALE DRAWING

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

	Lag Bolt Specifications		
	Specific Gravity	2/ea 5/16" shaft per 2.5" thread depth	5/16" shaft per 1" thread depth
Douglas Fir, Larch	.50	1330	266
Douglas Fir, South	.46	1175	235
Engelmann Spruce, Lodgepole Pine (MSR 1650 f & higher)	.46	1175	235
Hem, Fir	.43	1060	212
Hem, Fir (North)	.46	1175	235
Southern Pine	.55	1535	307
Spruce, Pine, Fir	.42	1025	205
Spruce, Pine, Fir (E of 2 million psi and higher grades of MSR and MEL)	.50	1330	266

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

### Notes:

- 1) Thread must be embedded in a rafter or other structural roof member.
- 2) See IBC for required edge distances.

**Important:** To maintain waterproofing of substrate it is important to make sure the aluminum primary flashing is properly placed over the QBase and under the course of paper above. If the paper above does not reach, due to layout, place an additional piece of roofing paper over the primary flashing and under the next course of paper above. (See instructions on reverse)

**Quick Mount PV®**  
RESPECT THE ROOF

# QBase Standard Flat Tile Mounting Instructions

## Subflashing Waterproofing Method: Lapped Paper

**Installation Tools Required:** tape measure, drill with 7/32" bit, drill or impact gun with 1/2" deep socket, caulking gun and sealant compatible with roofing material, 30 lb felt paper, whisk broom, roofing bar, angle grinder with a diamond blade

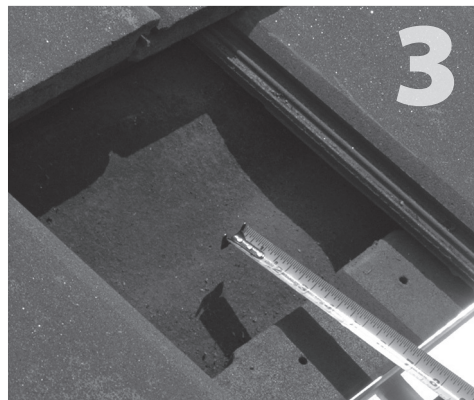
**WARNING:** Quick Mount PV products are NOT designed for and should NOT be used to anchor fall protection equipment.



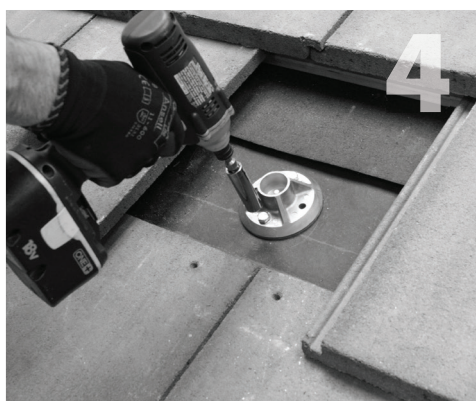
Remove tile at selected location of mount.



Locate and mark center of rafter.



Use a straight edge and measure up 6 5/8" from bottom of tiles to center of the mount over the center of rafter.



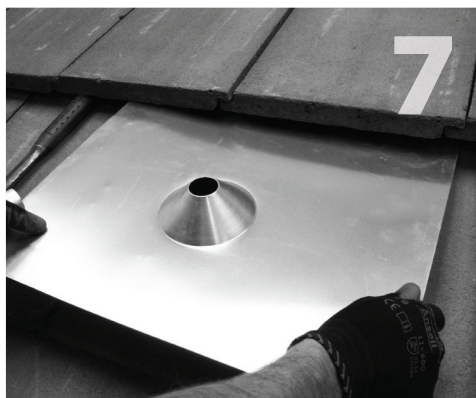
Align QBase over rafter center and drill two 7/32" pilot holes. Place grade-8 machine bolt under QBase in hex slot, threads pointing up. Lag QBase into rafter on marks.



Carefully clean the building paper then install primary flashing in either a three-course method or properly lapped paper method.\* Apply bead of sealant in the shape of an upside down U on the back side of the sub-flashing.



Take care to do a quality installation. When using the paper method, cut a piece of paper 18" wide to slide under the course above, and over the primary flashing of the mount.



Cut a hole in the tile removed, with room to get the post through. Replace tile in position. Insert post and tighten into place. Install the 18"x 18" flashing and apply sealant around the opening.



Apply sealant where post and flashing meet, and install counter flashing collar. (Be sure to seal off the post from weather exposure with the sealing washer (item 8), in the interim before racks are installed.)

You are now ready for the rack of your choice. Follow all the directions of the rack manufacturer as well as the module manufacturer.

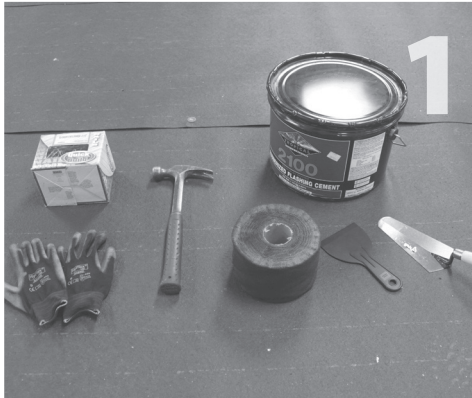
All roofing manufacturers' written instructions must also be followed by anyone modifying a roof system. Please consult the roof manufacturer's specs and instructions prior to touching the roof.

\* For more details on underlayment waterproofing please visit our website: <http://www.quickmountpv.com/tile-waterproofing>



# Subflashing Waterproofing Method: Three-Course

**Installation Tools Required:** gloves, hammer, brush, roofing nails, roofing cement, trowel, roll of reinforcing fabric, sealant compatible with roofing material



Gather materials needed.



Clean away dust and debris around QBase.



Apply a bead of sealant in the shape of an upside down U on the back side of the subflashing.



Install the subflashing over the post, making sure the edge closest to the cone is on the downhill side.



Fasten the subflashing into place with two roofing nails, one in each top corner.



Apply 1/8" thick layer of roofing cement around the top and sides of the subflashing with at least 1" extending past the sides of the flashing onto the felt. Layer should be about the thickness of a nickel.



While cement is still wet apply 3 pieces of reinforcing fabric strips where felt paper and flashing meet – a 14" strip along the top, and a 10" strip along each side.



After first layer of cement is dry apply second layer over reinforcing fabric to finish waterproofing of subflashing.

You are now ready to proceed with your top tile flashing installation (steps 7-8 on page 2).

Digital installation instructions are also available at our website:  
[www.quickmountpv.com/support/downloads.html](http://www.quickmountpv.com/support/downloads.html)

For more information on tile roofing best practices and code compliance visit the Tile Roof Institute's website:  
[www.tilerroofing.org](http://www.tilerroofing.org)

# Standard Flat Tile Mount | QMSFT

## Additional Dimensions

