**QBase® Standard Flat Tile Mount | QMSFT**

**NOTES:**
1. AVAILABLE IN MILL FINISH, AND BRONZE ANODIZED FINISH.
2. STAINLESS STEEL LAG SCREWS INCLUDED WITH ANODIZED FINISH.

**Quick Mount PV**

**TITLE:**
QMSFT: QBASE STANDARD FLAT TILE MOUNT

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

<table>
<thead>
<tr>
<th>Lag Bolt Specifications</th>
<th>Lag Bolt Specifications</th>
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</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td>2/ea 5/16&quot; shaft per 2.5&quot; thread depth</td>
</tr>
<tr>
<td>Douglas Fir, Larch</td>
<td>.50</td>
</tr>
<tr>
<td>Douglas Fir, South</td>
<td>.46</td>
</tr>
<tr>
<td>Engelmann Spruce, Lodgepole Pine (MSR 1650 f &amp; higher)</td>
<td>.46</td>
</tr>
<tr>
<td>Hem, Fir</td>
<td>.43</td>
</tr>
<tr>
<td>Hem, Fir (North)</td>
<td>.46</td>
</tr>
<tr>
<td>Southern Pine</td>
<td>.55</td>
</tr>
<tr>
<td>Spruce, Pine</td>
<td>.42</td>
</tr>
<tr>
<td>Spruce, Pine, F (E of 2 million psi and higher grades of MSR and MEL)</td>
<td>.50</td>
</tr>
</tbody>
</table>

**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 roof paper over the primary flashing and under the next course of paper above. (See instructions on reverse)
QBase Standard Flat Tile Mounting Instructions

**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, 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.

1. Remove tile at selected location of mount.

2. Locate and mark center of rafter.

3. Use a straight edge and measure up 6 3/8 from bottom of tiles to center of the mount over the center of rafter.

4. 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.

5. Carefully clean the building paper then install sub-flashing. Waterproof at underlayment level according to roofing manufacturer instructions and Tile Roofing Institute Guidelines.

6. 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.

7. 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.

   **Caution:** Prior to installation, check that proper screw embedment will be achieved for the necessary site load and roofing configurations.

   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, in the interim before racks are installed.)
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Additional Dimensions

THIS EDGE TOWARDS ROOF RIDGE