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 it is important that the subflashing is properly installed under a course of felt paper and the sealing washer must be placed directly on the post before racking is installed. See instructions on back.

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

<table>
<thead>
<tr>
<th>Lag Bolt Specifications</th>
<th>Specific Gravity</th>
<th>4 ea 1/4&quot; shaft per 1&quot; thread depth</th>
<th>1/4&quot; shaft per 1&quot; thread depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Douglas Fir, Larch</td>
<td>.50</td>
<td>900</td>
<td>225</td>
</tr>
<tr>
<td>Douglas Fir, South</td>
<td>.46</td>
<td>828</td>
<td>207</td>
</tr>
<tr>
<td>Engelmann Spruce, Lodgepole Pine (MSR 1650 f &amp; higher)</td>
<td>.46</td>
<td>828</td>
<td>179</td>
</tr>
<tr>
<td>Hem, Fir</td>
<td>.43</td>
<td>716</td>
<td>207</td>
</tr>
<tr>
<td>Hem, Fir (North)</td>
<td>.46</td>
<td>828</td>
<td>207</td>
</tr>
<tr>
<td>Southern Pine</td>
<td>.55</td>
<td>1040</td>
<td>260</td>
</tr>
<tr>
<td>Spruce, Pine, Fir</td>
<td>.42</td>
<td>652</td>
<td>173</td>
</tr>
<tr>
<td>Spruce, Pine, Fir (E of 2 million psi and higher grades of MSR and MEL)</td>
<td>.50</td>
<td>900</td>
<td>225</td>
</tr>
</tbody>
</table>

POST & TOP FLASHING AVAILABLE IN MILL, CLEAR ANODIZED, AND BRONZE ANODIZED FINISHES.
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.
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

Product Pictured Below: QBase Universal Tile Mount

1. Gather materials needed.
2. Clean away dust and debris around post and base.
3. Apply a bead of sealant in the shape of an upside down U on the back side of the subflashing.
4. Install the subflashing over the post, making sure the edge closest to the post hole is on the downhill side.
5. Fasten the subflashing into place with two roofing nails, one in each top corner.
6. 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.
7. 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.
8. 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

For more information on tile roofing best practices and code compliance visit the Tile Roof Institute’s website: www.tileroofing.org
Specialty Flat Tile Mount | QMFTM

Additional Dimensions

```
KNOCK OUT CENTERS FOR LAG SCREWS
```

```
THIS EDGE TOWARDS ROOF RIDGE
```

```
QMFTM: SPECIALTY FLAT TILE MOUNT
```

```
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES: FRACTIONAL ± 1/8
TWO PLACE DECIMALS ± 0.125
THREE PLACE DECIMALS ± 0.012
```

```
SIZE
A

DRAWN BY: RAD
DATE: 1/7/2015

SCALE: 1:4
WEIGHT: 2.255
SHEET 2 OF 2
```

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