



MULTIPLE WATERTIGHT FASTENERS FOR OPTIMUM STRENGTH

INSTALLATION GUIDE

REVISION: 08/02/22

VERSION: V2.2

CLICKING THE PAGE NAME WILL TAKE YOU TO THAT PAGE

TABLE OF CONTENTS	PAGE 01
FEATURES & BENEFITS	PAGE 02
COMPONENTS	PAGE 03
INSTALLATION	PAGE 04
LINE DRAWINGS	PAGE 07
SPECIFICATIONS	PAGE 15

REVISION: 08/02/22

VERSION: V2.2

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TILE MOUNTING SYSTEM

The Tile Mounting System, designed for use on new or existing (retrofit) tile roofs, is available in Flat, S, & W-shaped tile profiles. This innovative system replaces one concrete roof tile, eliminating the need for drilling or grinding tiles. Multiple fastener holes in the base plate allow attachment into the rafter regardless of location under the tile. When paired with an EcoFasten compression bracket, a watertight seal is created to protect the roof from any moisture.

FEATURES

- Replaces a tile, extra tile can be used to replace broken tiles
- Two attachment points for optimum pull-out values
- Available in Flat, S and W-shaped tile profiles
- Sierra Tan finish blends with most tile roofs

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TILE MOUNTING SYSTEM INSTALLATION GUIDE

SYSTEM COMPONENTS





- 1. L-FOOT SCL-101 MLL 3" (OTHER OPTIONS AVAILABLE)
- 2. 5/16" MACHINE BOLT
- 3. 5/16" EPDM BONDED WASHER
- 4. TILE FLASHING (AVAILABLE IN FLAT, S AND W-SHAPED)

- 5. TILE BASE (AVAILABLE IN FLAT, S AND W-SHAPED)
- 6. 5/16" EPDM BONDED WASHER
- 7. 5/16"- 4" LAG BOLT

PAGE

REVISION: 08/02/22

VERSION: V2.2

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mount location. Then position the base plate pedestal so that one of the three holes on the pedestal aligns with the center hole in the flashing. Depending on the rafter location the base plate can be rotated in any direction. **Note:** For proper alignment, it is easier to create a flashing template by cutting a flashing in half horizontally with tin snips. This will allow for easier alignment with the base plate.

3. Using the aligned base plate as template, predrill two pilot holes in rafter using a 7/32" drill bit. Backfill pilot holes with sealant.



PAGE

2

3

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REVISION: 08/02/22

INSTALLING TILE MOUNTING SYSTEM





4. Place a bead of caulk around the base plate leaving the bottom edge exposed. Then install the base plate using the two 5/16" x 4" lag bolts w/ bonded washers included in the packaging.

5. Install the flashing so that the hole in the flashing lines up with the selected hole in the base plate pedestal below. The top of the flashing should be positioned under the tile above.

6. Attached an EcoFasten compression bracket using the provided 5/16" x 1.25" hex bolt and EPDM bonded washer. Torque to 120-150in-lbs.



PAGE



7

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INSTALLING TILE MOUNTING SYSTEM

7. Re-align and insert other tiles that were removed in during the installation. To insure a proper fit of the flashing, each flashing can be molded with a rubber mallet or by hand to form properly over each tile.

PAGE 06

CUT SHEET: TILE BASE W AL



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CUT SHEET: TILE BASE W AL



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CUT SHEET: TILE FLASHING FLAT AL ST



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VERSION: V2.2

CUT SHEET: TILE BASE S AL ST



CUT SHEET: TILE FLASHING W AL ST

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VERSION: V2.2

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CUT SHEET: L-FOOT L-102 BLK 3"



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VERSION: V2.2

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CUT SHEET: L-FOOT L-102 MLL 6"



REVISION: 08/02/22

VERSION: V2.2

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CUT SHEET: L-FOOT SCL-101 MLL 3"



REVISION: 08/02/22

VERSION: V2.2

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TILE MOUNTING SYSTEM

SYSTEM COMPONENTS

1. Tile Base:

Available in three heights for Flat, W and S-shaped tile profiles. Consists of (1) aluminum tile base (1) aluminum pedestal, (1) 5/16"-18 stainless steel flange bolt, (1) 5/16" stainless steel EPDM bonded sealing washer, and (2) preinstalled 5/16"-18 button head hex drive. Ships with (2) 5/16" - 4" lag screws and (2) 5/16" EPDM bonded washers.

2. Tile Flashing:

Available in Flat, W and S-shaped profiles. Consist of (1) aluminum flashing with top side pre-painted Siera Tan kynar finish and (1) preassembled integrated EPDM bushing.

3. Fastener:

Two 5/16"x4" lag bolts. (included with Tile Base)

4. **Recomended Sealant:**

If required by roof manufacturer, sealant shall be roof manufacturer approved.

DELIVERY / STORAGE / HANDLING

Inspect material upon delivery. Notify manufacturer within 24 hours of any missing or defective items. Keep material dry, covered and off the ground until installed.

PATENTS

Visit www.efpatents.com for patent information.

DESIGN REQUIREMENTS

- 1. Bracket spacing to be recommended by project engineer.
- 2. Fasten attachment to roof using two lag bolts.
- 3. It is important to design new structures or assess existing structures to make sure they withstand retained loads.

EXAMINATION

- 1. Substrate: Inspect structure on which brackets are to be installed and verify that it will withstand any additional loading that may be incurred.
- 2. Notify General Contractor of any deficiencies before installing EcoFasten Solar brackets.
- 3. Verify that roofing material has been installed correctly prior to installing solar attachment bracket.

INSTALLATION

Comply with architectual drawings and project engineer's recommendation for location of system. Comply with Manufacturer's written installation instructions for installation and layout.

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