

44-R™

**THE DIRECT-TO-DECK SOLUTION
FOR A VARIETY OF ROOF TYPES**

INSTALLATION GUIDE

REVISION: 1/24/25

VERSION: V3.2

44-R

INSTALLATION GUIDE



EcoFasten®
For Installers. By Installers.

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The base plate of the 44-R utilizes 8 fasteners, allowing the system to be installed directly to the roof deck without engaging a rafter. The 44-R System can be used on rolled roof, comp shingle roofs and SIPS (Structural Insulated Panel) roofs with pitches from 1/4:12 - 21:12. 44-R is a customizable solution for new or existing roofs. Extensively tested for pullout and shear.

FEATURES

- Patented Watertight Technology
- Compatible with a variety of compression brackets
- Wide footprint for load dispersal
- Direct-to-deck attachment

FEATURES + BENEFITS

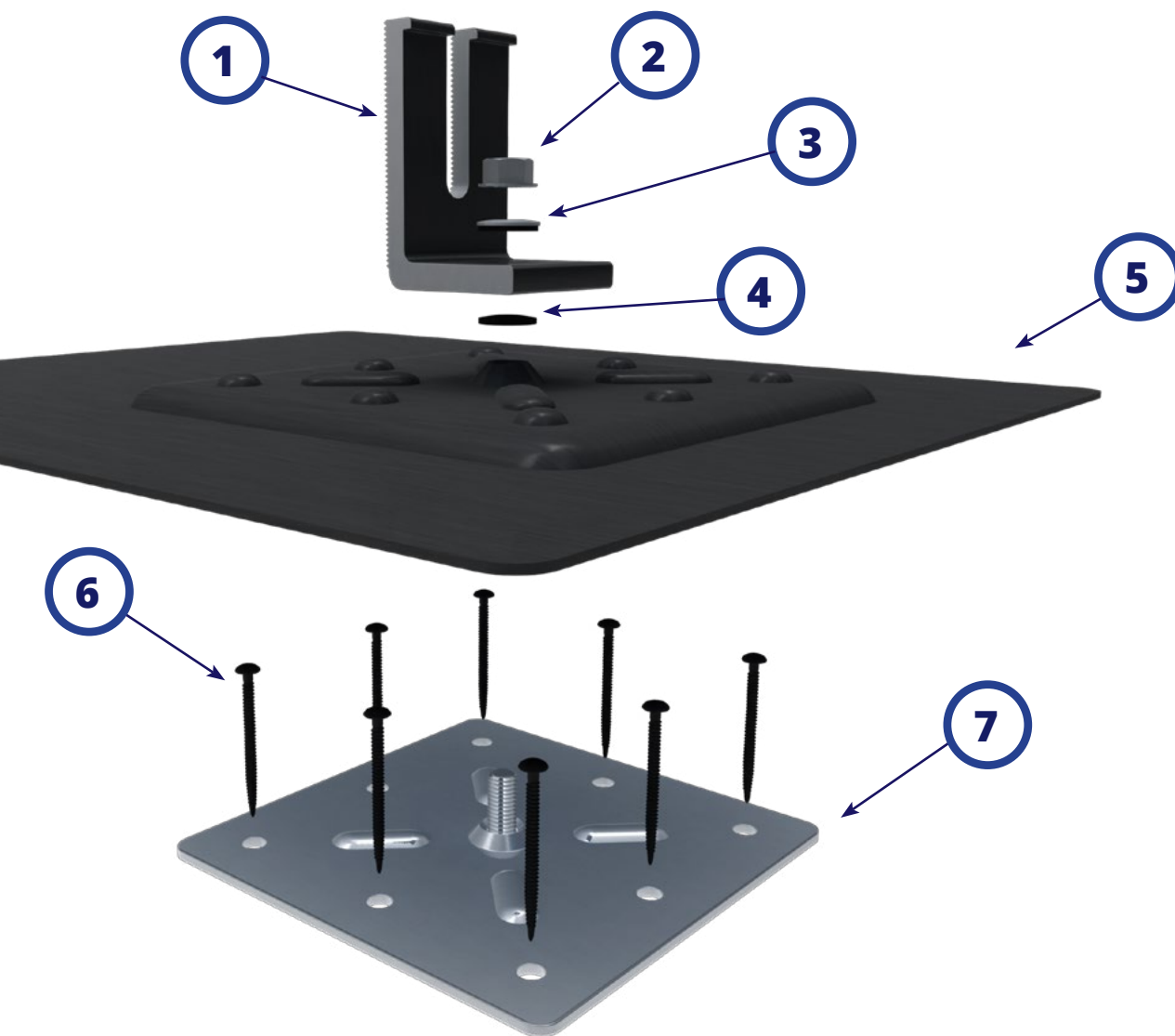
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SYSTEM COMPONENTS



1. L-FOOT SCL-101 BLACK 3"

2. 3/8" SERRATED FLANGE NUT

3. 3/8" EPDM BONDED WASHER

4. EPDM SEALING WASHER

5. 44-R FLASHING AL BLK 12X14"

6. #15-13 SELF DRILLING FASTENER (8X)

7. 44-R BASE SS 6X6"

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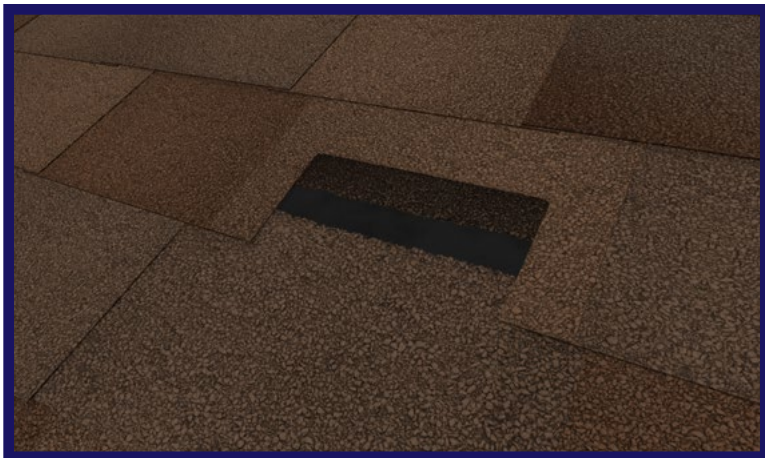
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INSTALLING 44-R



Locate and mark the location to which the base plate is to be attached. Cut the up-slope shingle the minimal amount needed to install base plate. This will ensure the flashing does not overhang the course below, protect the sides of the base plate, and ensure the best watertight protection for your installation.



Attach the base plate to the roof. All fastener holes should be used. Fasteners securing to the roof sheathing should be a minimum of 2" long.



Slide the flashing over the base plate and through the stud. The flashing should be placed under the course of shingles that was cut in Step #1. The down-slope edge of the flashing should be approximately even with the bottom of the shingle. The flashing should not overhang the down-slope shingle more than 1".

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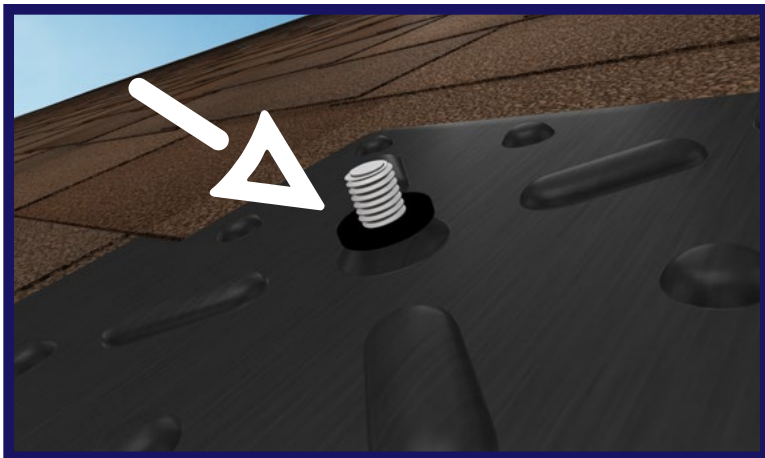
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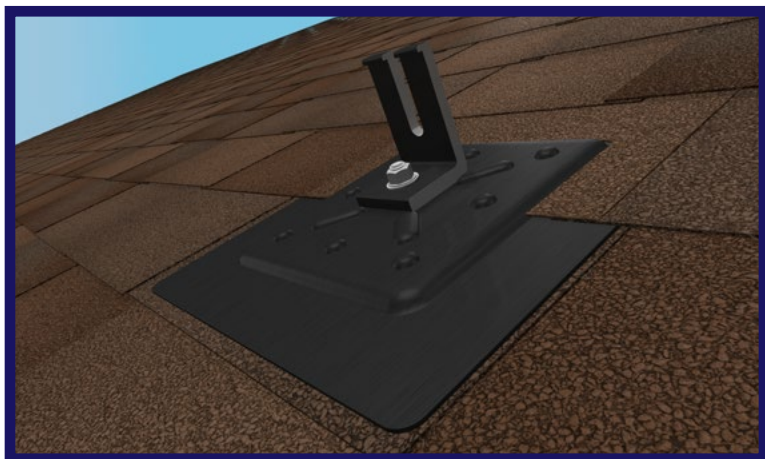


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After the flashing is in place, install the EPDM washer over the stud.



Place an EcoFasten bracket onto the stud, followed by the bonded sealing washer with the rubber side facing down. Secure the bracket using the serrated flange nut by tightening it to 50 inch-pounds.

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SYSTEM COMPONENTS

1. **44-R BASE SS 6X6" - Base Plate and Hardware:**

Consists of (1) stainless steel base plate with (1) integrated stainless steel stud, (1) stainless steel serrated flange nut, (1) EPDM sealing washer, (1) stainless steel / EPDM bonded sealing washer. Base Plate is 11 gauge 304 stainless steel with one 3/8"-304 stainless steel screw welded into embossed countersink.

2. **44-R FLASHING AL BLK 12X14" - Aluminum Flashing:**

Black finish (Kynar painted) .032 gauge aluminum, embossed.

3. **Aluminum Compression Bracket:**

Compatible with our 3" aluminum open slot black L-Foot.

4. **Recommended Fasteners**

Self-drilling #15-13 roofing screws are available from EcoFasten in 2", 3" and 4" lengths.

5. **Recommended 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.

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DESIGN REQUIREMENTS

1. Bracket spacing to be recommended by project engineer.
2. Install a minimum of eight fasteners per base plate.
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 architectural drawings and project engineer's recommendation for location of system. Comply with Manufacturer's written installation instructions for installation and layout.