



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

INSTALLATION GUIDE

REVISION: 08/02/22

VERSION: V2.3



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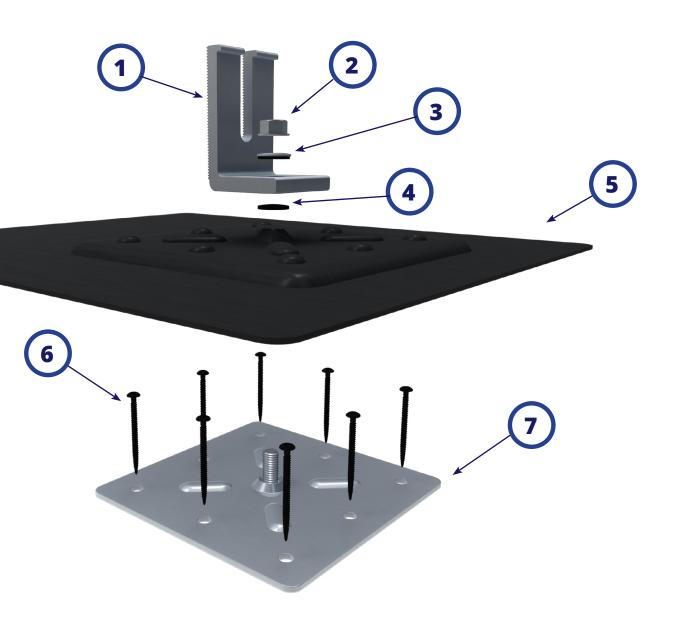
44-R

The base plate of the 44-R utilizes eight fasteners, allowing the system to be installed directly to the roof deck without engaging a rafter. The 44-R System can be used on low slope, flat, and SIPs (structural insulated panel) roofs, and with a variety of compression bracket options. 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

SYSTEM COMPONENTS



- 1. L-FOOT SCL-101 MLL 3" (OTHER OPTIONS AVAILABLE)
- 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"

44-R INSTALLATION GUIDE



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".

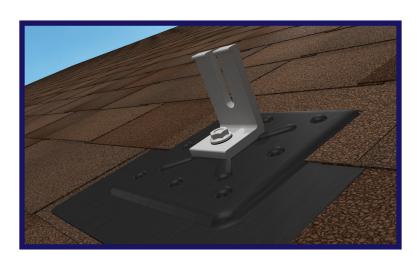
44-R **INSTALLATION GUIDE**



INSTALLING 44-R



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



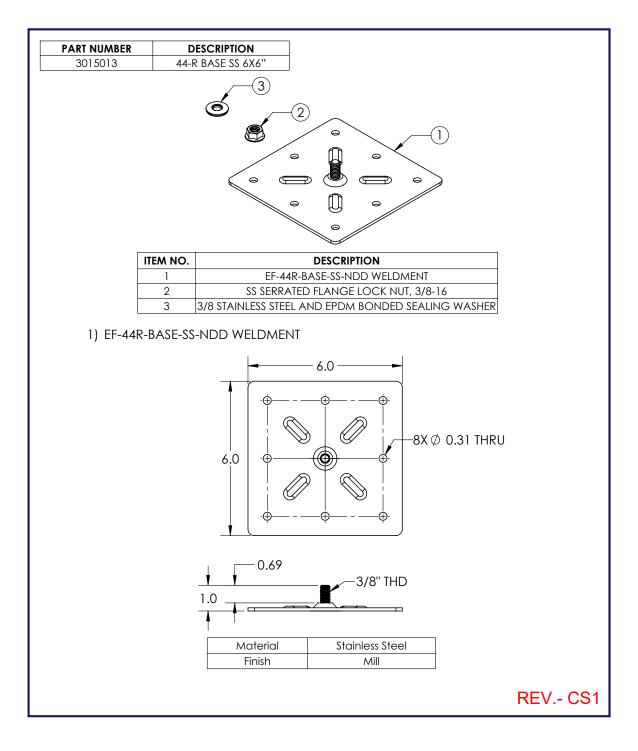
Place an EcoFasten bracket onto the stud, followed by the bonded sealing washer with the rubber side facing down. Secure the bracket using the serrated flange nut by tightening it to 50 inch-pounds.



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CUT SHEET: 44-R BASE SS 6X6"

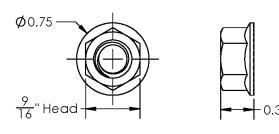




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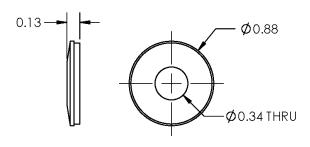
CUT SHEET: 44-R BASE SS 6X6"





Material	Stainless Steel
Finish	Mill

3) 3/8 STAINLESS STEEL AND EPDM BONDED SEALING WASHER



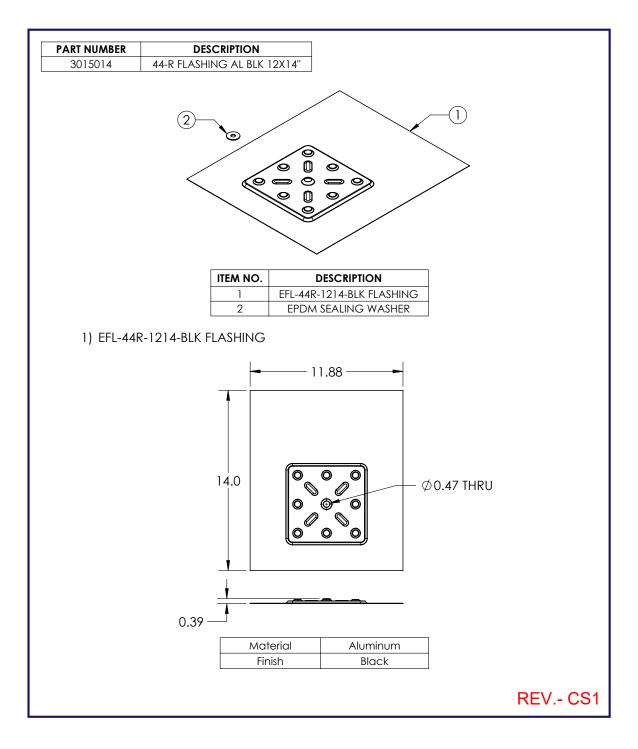
Material	Stainless Steel/EPDM
Finish	Mill

REV.- CS1



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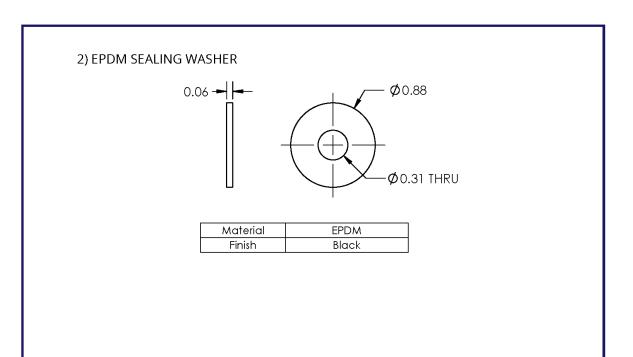
CUT SHEET: 44-R FLASHING AL BLK 12X14"





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CUT SHEET: 44-R FLASHING AL BLK 12X14"

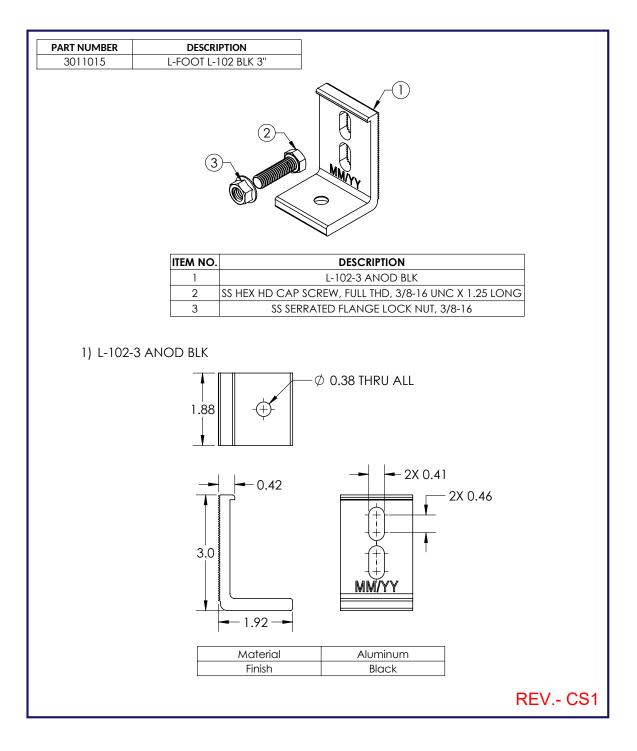


REV.- CS1



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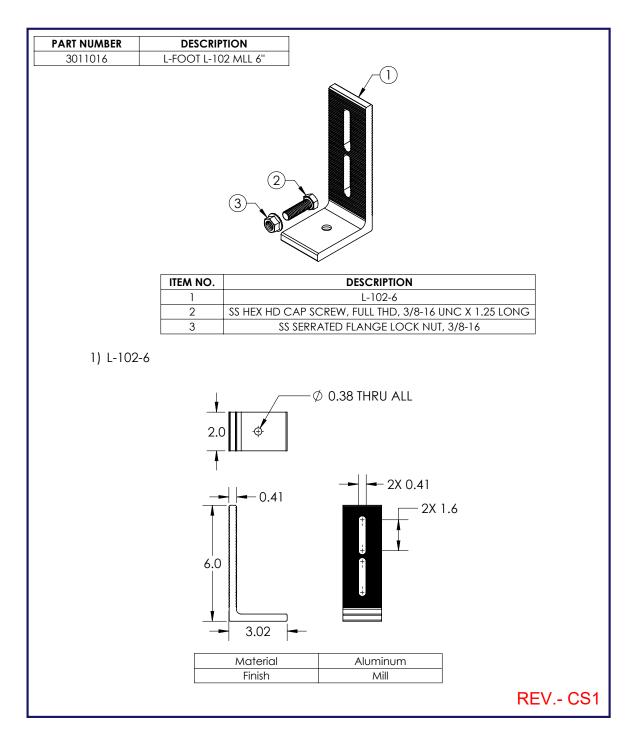
CUT SHEET: L-FOOT L-102 BLK 3"





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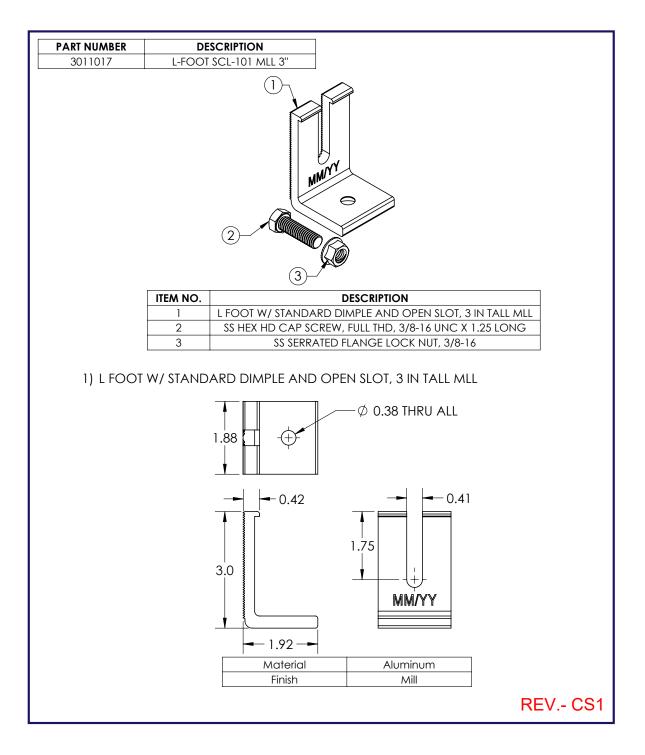
CUT SHEET: L-FOOT L-102 MLL 6"





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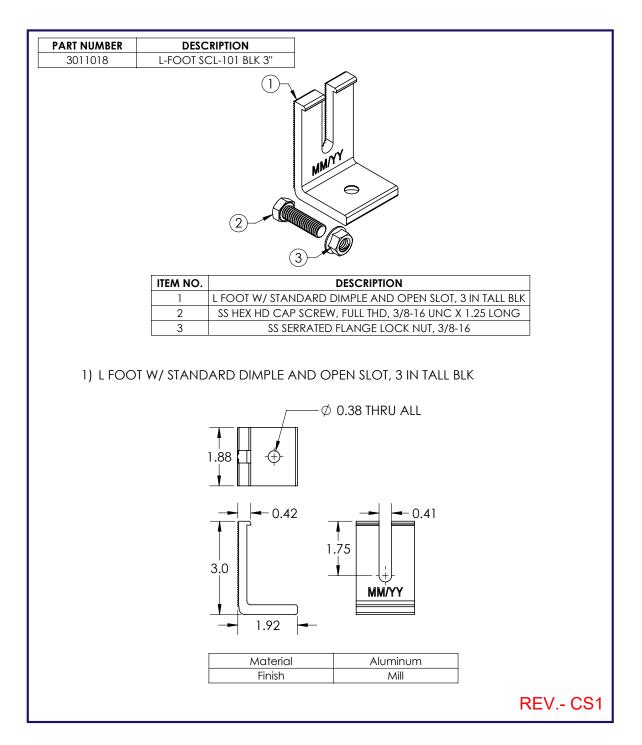
CUT SHEET: L-FOOT SCL-101 MLL 3"





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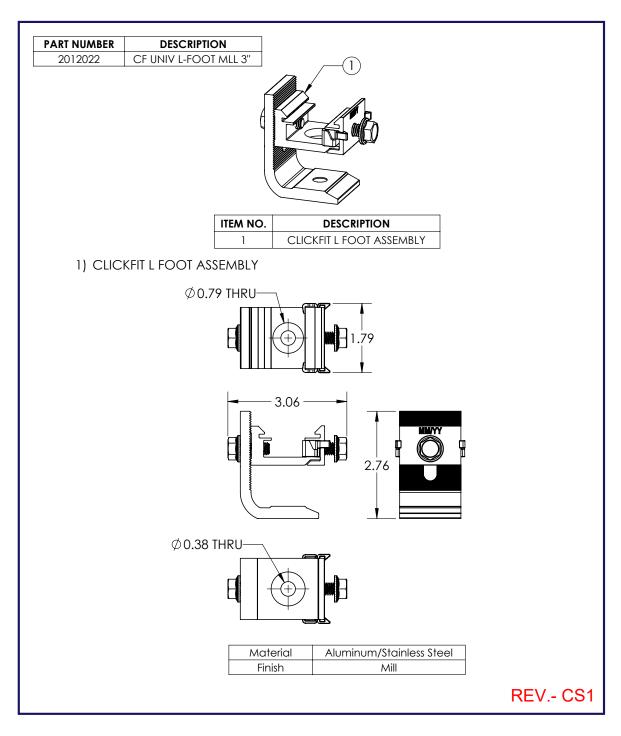
CUT SHEET: L-FOOT SCL-101 BLK 3"





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CUT SHEET: CF UNIV L-FOOT MLL 3"

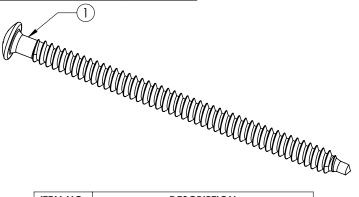




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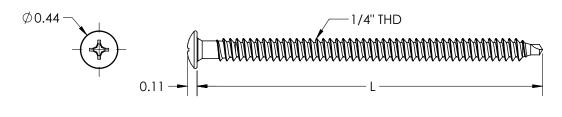
DECK SCREW SS

PART NUMBER	DESCRIPTION	LENGTH (L)
3016010	DECK SCREW SS #15X2"	2"
3016011	DECK SCREW SS #15X3"	3"
3016012	DECK SCREW SS #15X4"	4"



ITEM NO.	DESCRIPTION	
1	ROOFING SCREW, DRILL POINT, BLACK	

1) ROOFING SCREW, DRILL POINT, BLACK



Material	Steel
Finish	Black

REV.- CS1

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 a variety of EcoFasten compression brackets. EcoFasten compression brackets are made out 6000 series aluminum with options available for mill or black finishes depending on the bracket.

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.

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.

