



## PART 1 – GENERAL

### 1.1 SUMMARY

#### A. WORK INCLUDES:

1. Eco-44R-6" Solar attachment bracket that attaches directly to the roof deck.
2. Provide appropriate bracket and fasteners for the roof system.

#### B. RELATED SECTIONS:

1. Section 07600: Flashing and Sheet Metal
2. Section 07500: Membrane Roofing
3. Division 1: Administrative and Procedural Requirements
4. Division 7: Thermal and Moisture Protection

### 1.2 SYSTEM DESCRIPTION

#### A. COMPONENTS:

1. Eco-44R system consists of post and base plate
2. Fasteners
  - A. To be of metal compatible with base plate.
  - B. Fasteners should be selected for compatibility with the roof deck
  - C. Fastener strength should exceed or be equal to that of the allowable load of the system. See test data at [www.ecofastensolar.com](http://www.ecofastensolar.com)
3. Standoff Post
4. Plumbing Boot (supplied by others)
5. Pipe Clamp (supplied by others)
6. Sealant (if required by roof manufacturer): to be membrane roof manufacturer approved.

#### B. 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 can withstand retained loads.

### 1.3 SUBMITTAL

- A. Submit manufacturer's written specifications.
- B. Submit standard product cut sheets.
- C. Submit installation instructions.
- D. Submit product specific load test data, showing ultimate and allowable load values.

### 1.4 QUALITY ASSURANCE

Installer to be experienced in the installation of specified roofing material for not less than 5 years in the area of the project.

### 1.5 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.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURER

EcoFasten Solar, 289 Harrel Street  
Morrisville, VT. 05661 (877) 859-3947  
[www.ecofastensolar.com](http://www.ecofastensolar.com)

### 2.2 MATERIALS

- A. Attachment Bracket  
6000 Series Aluminum (choose one)
  1. SL-102-6
  2. C-102-6
  3. P-6-CSK
  4. Custom
- B. Base Plate is 11 gauge material thickness. (Choose material)
  1. 304 Stainless Steel with one 3/8" 304 stainless steel machine screws welded into embossed countersink.

- C. Fasteners (can be purchased from others) to be compatible with chosen roof application and meet specified pull out values as shown in load test data.
- D. Base Plate Support Mechanism: Aluminum Ferrules 6000 series aluminum, 1" O.D. 1/8" wall thickness.
- E. Plumbing boot, (may be supplied by others) to be compatible with roofing material, roofing material manufacturer's acceptable installation technique, and of an acceptable size to meet roof manufacturer's specifications.
- F. 1-1/4" I.D. Aluminum Post-Series 6000 aluminum with 3/8-16" threaded hole in one end, countersink in opposite end.
- G. Stainless steel pipe clamp 1-1/4" adjustable (supplied by others).

### 2.3 FINISH – Mill Finish

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Substrate: Inspect structure on which brackets are to be installed and verify that it will withstand any additional loading that it may incur. Notify General Contractor of any deficiencies before installing EcoFasten Solar's Eco-44R brackets.
- B. Verify that roofing material has been installed correctly prior to installing solar attachment brackets.

### 3.2 INSTALLATION

Comply with architectural drawings and project engineer's recommendations for location of system. Comply with Manufacturer's written installation instructions for installation.