

**PART 1 – GENERAL****1.1 SUMMARY****A. WORK INCLUDES**

1. GreenFasten 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: Roofing
3. Division 1: Administrative and procedural requirements
4. Division 7: Thermal and Moisture Protection

**1.2 SYSTEM DESCRIPTION****A. COMPONENTS:**

1. GreenFasten system consists of aluminum flashing with integral EPDM bushing and one bonded stainless steel and EPDM washer.
2. Fasteners
  - A. To be of metal compatible with aluminum GreenFasten components.
  - 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. Sealant (if required by roof manufacturer): to be roof manufacturer approved.
4. Aluminum attachment bracket

**B. DESIGN REQUIREMENTS:**

1. Bracket spacing to be recommended by project engineer.
2. Install a minimum of one fastener assembly.
3. It is important to design new structures or assess existing structures to make sure that 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 and snowguards for no 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 St. 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. F-111
    2. L-101-3"
    3. L-102-3"
    4. CP-R
    5. CP-SQ
    6. SL-102-6"
    7. Z-101
    8. Custom

- B. Fasteners (may be supplied by others) to be compatible with chosen roof application and meet specified pull out values as shown in load test data.
- C. Base flashing is .032 gauge aluminum embossed to accept EPDM bushing.
- D. Bushing is EPDM.
- E. Stainless steel bonded washer is 302 stainless and EPDM.

**2.3 FINISH – Mill Finish**

- A. Bracket is mill finish aluminum
- B. Base flashing (choose one)
  1. Mill Finish
  2. Black - kynar painted
  3. Dark Bronze - kynar painted

**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 brackets.
- B. Verify that roofing material has been installed correctly prior to installing solar attachment brackets.

**3.2 INSTALLATION**

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