



PART 1 – GENERAL

1.1 SUMMARY

- A. WORK INCLUDES
1. Eco-65 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-65 system consists of bracket and base plate with (2) stainless steel nuts and (2) bonded stainless steel and EPDM washers.
 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
 3. Sealant (if required by roof manufacturer): to be membrane roof manufacturer approved.
 4. Target Patch of appropriate size and material and method of installation to meet roof manufacturer's requirement for proper flashing.
- 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 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 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

2.2- MATERIALS

- A. Attachment Bracket
6000 Series Aluminum (choose one)
1. F-202
 2. F-203
 3. L-202
 4. Z-202
 5. Custom
- B. Base Plate is 11 gauge material thickness. (Choose material)
1. 304 Stainless Steel with two 5/16" 304 stainless steel machine screws welded into embossed countersink.
 2. 1018 hot rolled and pickled steel with two 5/16" 304 stainless steel machine screw 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: (choose one)
1. Wood blocking of appropriate size and thickness to support base without splitting.
 2. Aluminum Ferrules 6000 series aluminum 1" O.D. 1/8" wall thickness.
- E. Target Patch (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.

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 may be incurred.
- B. Notify General Contractor of any deficiencies before installing EcoFasten Solar brackets.
- C. 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.