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ICC-ES Evaluation Report

ESR-3575

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Reissued 08/2018
This report is subject to renewal 08/2019.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
SECTION: 07 65 00—FLEXIBLE FLASHING

REPORT HOLDER:

ROOF TECH, INC.

EVALUATION SUBJECT:

ROOF TECH [E] MOUNT SOLAR PV MOUNTING SYSTEM



“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”



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1.0 EVALUATION SCOPE

Compliance with the following code:

- 2018, 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2018, 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)

Properties evaluated:

- Durability
- Water resistance

2.0 USES

The Roof Tech [E] Mount Solar PV mounting system is used as flashing at roof penetrations which result during installation of the bracket to the roof structure of roofs covered with asphalt shingles.

3.0 DESCRIPTION

The Roof Tech [E] Mount Solar PV mounting system is composed of metal bracket, wood screws and the RT Butyl Tape used to seal penetrations created during installation over a roof covered with asphalt shingles. The Roof Tech [E] Mount brackets are made from aluminum and come in two types, [E] Mount and [E] Mount Air. Both of the brackets are similar except that the [E] Mount Air has a taller profile. The wood screws are made from stainless steel having a hex-head and installed with a stainless steel washer and a rubber washer. The RT Butyl Tape is butyl-based rubber and has a nominal thickness of 0.118 inch. See Figure 1 for a description of the [E] Mount bracket system components.

4.0 INSTALLATION

Installation of the Roof Tech [E] Mount Solar PV mounting system must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

The mounting bracket must be installed over the asphalt shingle at the determined location. The RT Butyl Tape is placed beneath the bracket and over the asphalt shingle. Wood screws are then used to fasten the bracket to the roof. Roofing sealant must be applied as recommended by Roof Tech, Inc. installation instructions. The Roof Tech [E] Mount Solar PV mounting system has been evaluated to be installed on roofs covered with asphalt shingles and having minimum slopes of 3:12 (25 percent) and maximum slopes of 12:12 (100 percent).

5.0 CONDITIONS OF USE

The Roof Tech [E] Mount Solar PV mounting system described in this report complies with, or is a suitable alternative to what is specified in, the code indicated in Section 1.0 of this report, subject to the following conditions:

- 5.1** The Roof Tech [E] Mount Solar PV mounting system must be installed in accordance with this report and the manufacturer's published installation instructions. In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.
- 5.2** The structural capacity of the Roof Tech [E] Mount Solar PV mounting brackets and their connection to the roof is outside the scope of this report and must be determined by a registered design professional to the satisfaction of the code official.

6.0 EVIDENCE SUBMITTED

- 6.1** Report of Tests for rain test data in accordance with Section 4.1 of the ICC-ES Acceptance Criteria for Roof Flashing for Pipe Penetrations (AC286), dated October 2012 (editorially revised April 2018).
- 6.2** Report of tests in accordance with ASTM D1970 Sections 7.5 Thermal Stability; Section 7.9 Capability to Seal around Nail.
- 6.3** Report of tests for thermal cycling in accordance with Section 4.5.4 of the ICC-ES Acceptance Criteria for Membrane Roof-covering Systems (AC75), dated July 2010 (editorially revised March 2018)
- 6.4** Quality documentation in accordance with the ICC-ES Acceptance Criteria for Quality Documentation (AC10) dated January 2018.
- 6.5** Report holder's published installation instructions.

7.0 IDENTIFICATION

- 7.1** The Roof Tech [E] Mount Solar PV mounting system is identified with a label bearing the report holder's

name (Roof Tech, Inc.), the product name or designation, and the evaluation report number (ESR-3575).

7.2 The report holder's contact information is the following:

ROOF TECH, INC.
333 H STREET, SUITE 5000
CHULA VISTA, CALIFORNIA 91910
(619) 551-7029
www.roof-tech.us

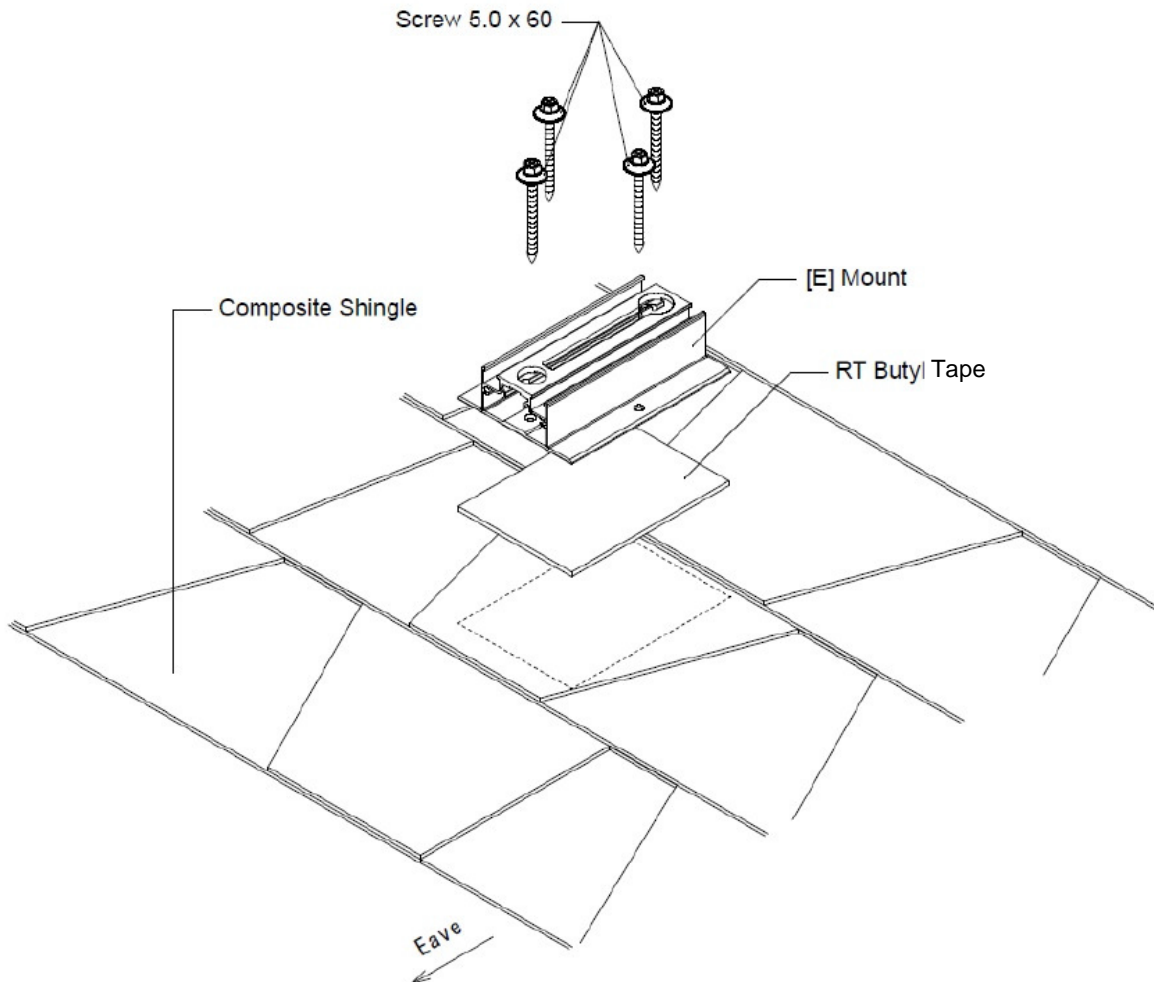


FIGURE 1—[E] MOUNT SOLAR PV MOUNTING BRACKET ASSEMBLY