

ICC-ES Evaluation Report

ESR-1318

Issued March 1, 2010

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A Subsidiary of the International Code Council®

DIVISION: 07—THERMAL AND MOISTURE PROTECTION

Section: 07650—Flexible Flashings

Section: 07720—Roof Accessories

DIVISION: 15—MECHANICAL

Section: 15430—Plumbing Specialties

REPORT HOLDER:

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EVALUATION SUBJECT:**SQUARE MASTER FLASH, MODELS MIN, 1, 2, 3, 4, 5, 6, 7, AND 8****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

Properties evaluated:

- Durability
- Water resistance

2.0 USES

Square Master Flash Models Min, 1, 2, 3, 4, 5, 6, 7, and 8 flashings are prefabricated products used as flashing at roof penetrations of pipes on roofs with single-ply membrane roof coverings or flat or fluted metal panel roof coverings in compliance with the applicable code, to prevent moisture from penetrating the roof in non-fire-resistance-rated construction.

3.0 DESCRIPTION

Square Master Flash Models Min, 1, 2, 3, 4, 5, 6, 7, and 8 flashings consist of silicone or EPDM synthetic rubber bonded to a code-complying metal collar base made of nominally 0.030-inch-thick (0.76 mm) aluminum complying with ASTM B 209. The silicone-based square Master Flash is colored red. The EPDM-based square Master Flash is colored black or grey. The pipe flashings are available in nine sizes to fit nominal pipe diameter sizes as shown in Table 1.

4.0 INSTALLATION

Installation of the Square Master Flash roof flashings 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 Square Master Flash is placed over the pipe and the base bent in place to conform to the shape of the roof covering irregularities, before application of silicone sealant complying with ASTM C 920-05 between the base and the roof covering. The base must then be mechanically fastened through the roof covering to the roof sheathing using minimum No. 10 self-drilling screw fasteners at each corner of the base and every 1½ inches (38 mm) on-center around the perimeter.

5.0 CONDITIONS OF USE

The Square Master Flash Models Min, 1, 2, 3, 4, 5, 6, 7, and 8 described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Installation must comply with this report, the manufacturer's published installation instructions and the applicable code. In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.
- 5.2** Square Master Flash Models Min, 1, 2, 3, 4, 5, 6, 7, and 8 Roof Flashings must not be used with petroleum-based mastics.
- 5.3** Square Master Flash Models Min, 1, 2, 3, 4, 5, 6, 7, and 8 Roof Flashings must not be installed on roof slopes of less than ¼:12 (2 percent) or greater than 12:12 (100 percent).
- 5.4** Square Master Flash roof flashings are limited to use with plumbing or electrical piping roof penetrations.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Roof Flashing for Pipe Penetrations (AC286), dated February, 2008.

7.0 IDENTIFICATION

The roof flashings described in this report must be identified by a stamp bearing the manufacturer's name (Aztec Washer, Inc.), the product name and the evaluation report number (ESR-1318).

TABLE 1—PRODUCT DIMENSIONS

PRODUCT SERIES	NOMINAL PIPE DIAMETER (inches)	BASE SIZE (inches)
Min.	$\frac{1}{4}$ - $\frac{3}{4}$	$2\frac{1}{4} \times 2\frac{1}{4}$
1	$\frac{1}{4}$ - 2	$4\frac{1}{2} \times 4\frac{1}{2}$
2	$1\frac{1}{4}$ - 3	6 x 6
3	$\frac{1}{4}$ - 4	8 x 8
4	3 - 6	10 x 10
5	4 - 7	11 x 11
6	5 - 9	12 x 12
7	6 - 11	14 x 14
8	7 - 13	17 x 17

For **SI**: 1 inch = 25.4 mm.