



ICC-ES Evaluation Report

Reissued March 2022

ESR-1318

This report is subject to renewal March 2023.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 65 00—Flexible Flashing

REPORT HOLDER:

AZTEC WASHER, INC.

EVALUATION SUBJECT:

SQUARE MASTER FLASH ROOF FLASHINGS: MINI, 1, 2, 3, 4, 5, 6, 7, 8, 9, 9X, FIX-A-FLASH CLOSED TOP, MAXI OPEN TOP AND MAXI CLOSED TOP

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Durability
- Water resistance

2.0 USES

Square Master Flash roof flashings, Mini, 1, 2, 3, 4, 5, 6, 7, 8, 9, 9X, Fix-a-flash Closed Top, Maxi Open Top and Maxi Closed Top 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 roof 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 B209. 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 fourteen sizes to fit nominal pipe diameter sizes as shown in Table 1. See Figure 1 for typical roof flashing profile.

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 pipe covering irregularities, before application of silicone sealant complying with ASTM C920-14a 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 roof flashings, Mini, 1, 2, 3, 4, 5, 6, 7, 8, 9, 9X, Fix-a-flash Closed Top, Maxi Open Top and Maxi Closed Top, 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 The roof flashings must not be used with petroleum-based mastics.
- 5.3 The 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 The 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 October 2012 (editorially revised August 2013).

7.0 IDENTIFICATION

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

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

AZTEC WASHER, INC.
 13821 DANIELSON STREET
 POWAY, CALIFORNIA 92064
 (858) 513-4350
www.aztecwasher.com
mattd@aztecwasher.com

TABLE 1—PRODUCT DIMENSIONS

PRODUCT SERIES	NOMINAL PIPE DIAMETER (inches)	BASE SIZE (inches)
Mini	1/4 - 3/4	2 1/4 x 2 1/4
1	1/4 - 2	4 1/2 x 4 1/2
2	1 1/4 - 3	6 x 6
3	1 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
9	9 1/2 - 20 1/2	25 x 25
9X	8 - 20 1/2	25 x 25
Fix-a-flash Closed Top	1 - 15	19 1/2 x 19 1/2
Maxi Open Top	12 - 26	34 x 34
Maxi Closed Top	1 - 26	34 x 34

For SI: 1 inch = 25.4 mm.

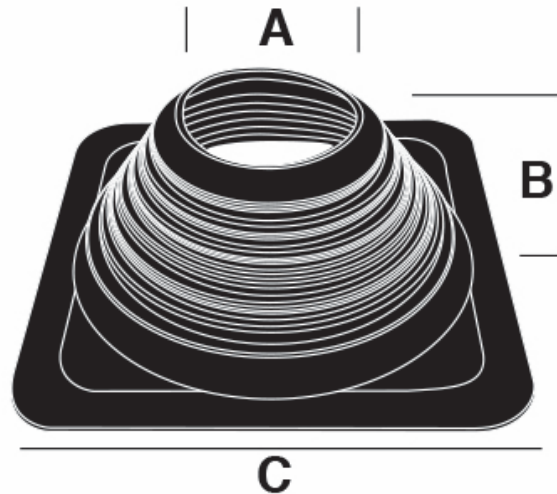


FIGURE 1—SQUARE MASTER FLASH ROOF FLASHING TYPICAL PROFILE

- A – Nominal pipe diameter
- B – Cut to suit pipe size
- C – Base dimension

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Square Master Flash roof flashings, described in ICC-ES evaluation report ESR-1318, have also been evaluated for compliance with the codes noted below.

Applicable codes:

- 2013 *California Building Code*® (CBC)
- 2013 *California Residential Code*® (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Square Master Flash roof flashings, described in Sections 2.0 through 7.0 of the evaluation report ESR-1318, comply with the CBC, provided installation is in accordance with the 2012 *International Building Code*® provisions noted in the evaluation report.

2.2 CRC:

The Square Master Flash roof flashings, described in Sections 2.0 through 7.0 of the evaluation report ESR-1318, comply with the CRC, provided the design and installation are in accordance with the 2012 *International Residential Code*® provisions noted in the evaluation report.

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Applicable code editions:

- 2010 *Florida Building Code—Building*
- 2010 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The Square Master Flash roof flashings, described in Sections 2.0 through 7.0 of the evaluation report ESR-1318, comply with the 2010 *Florida Building Code—Building* and the 2010 *Florida Building Code—Residential*, provided the design and installation are in accordance with the *International Building Code*® (IBC) provisions noted in the evaluation report.

Use of the Square Master Flash roof flashings for compliance with the High-Velocity Hurricane Zone provisions of the 2010 *Florida Building Code—Building* and the 2010 *Florida Building Code—Residential* has not been evaluated and is outside the scope of this supplemental report.

For products falling under Florida Rule 9N-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official, when the report holder does not possess an approval by the Commission).

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