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ICC-ES Evaluation Report

ESR-3019

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Reissued 07/2017
This report is subject to renewal 07/2018.

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

REPORT HOLDER:

IPS CORPORATION

**202 INDUSTRIAL PARK LANE
COLLIERVILLE, TENNESSEE 38017**

EVALUATION SUBJECT:

WATER TITE® ROOF FLASHINGS



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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 65 00—Flexible Flashing

REPORT HOLDER:

IPS CORPORATION
202 INDUSTRIAL PARK LANE
COLLIERVILLE, TENNESSEE 38017
(901) 853-5001
www.ipscorp.com

EVALUATION SUBJECT:

WATER-TITE® ROOF FLASHINGS

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)

Properties evaluated:

- Physical properties
- Water resistance

2.0 USES

Water-Tite® Roof Flashings are prefabricated products used as flashing at roof penetrations of pipes on roofs with asphalt shingle roof coverings in compliance with the applicable code, to prevent moisture from penetrating the roof.

3.0 DESCRIPTION

3.1 General:

The Water-Tite® Roof Flashings consist of four series as described in Sections 3.1.1 through 3.1.5. The Water-Tite® Roof Flashings are available with flexible base (FB Series), hard base (HB Series), galvanized base (GB Series), aluminum base (AB Series) or copper base (CB Series) to fit nominal pipe diameter sizes of 1¹/₄ inches to 4 inches (32 mm to 102 mm). The pipe flashings are also available in combination 3-in-1 flashing which fit sizes 1¹/₂-, 2-, and 3-inch (38, 51, or 76 mm) stacks. See Table 1 of this report for dimensions of specific flashing series and models.

3.1.1 FB Series: The Water-Tite® Roof Flashings FB (Flexible Base) series is a one-piece flexible black PVC roof flashing with the base and collar manufactured from a

flexible PVC material. See Table 1 for the available models and collar sizes.

3.1.2 HB Series: The Water-Tite® Roof Flashings HB (Hard Base) series is a one-piece black plastic roof flashing made of a special blend of polypropylene plastic. The base is manufactured out of hard plastic with the collar manufactured with soft flexible plastic. See Table 1 for the available models and collar sizes.

3.1.3 GB Series: The Water-Tite® Roof Flashings GB (Galvanized Base) series is manufactured with a 24-gauge galvanized base with a soft flexible collar. See Table 1 for the available models and collar sizes.

3.1.4 AB Series: The Water-Tite® Roof Flashings AB (Aluminum Base) series is manufactured with a 0.02-inch-thick aluminum base with a soft flexible collar. See Table 1 for the available models and collar sizes.

3.1.5 CB Series: The Water-Tite® Roof Flashings CB (Copper Base) series is manufactured with a minimum of 0.013-inch-thick copper base with a soft flexible collar. See Table 1 for available models.

4.0 INSTALLATION

Installation of the Water-Tite® 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.

After removal of any sharp edges on the top of the pipe, the pipe flashing collar is placed over the top of the pipe and slid down until flush with the roof underlayment. The longer side of the pipe flashing base must be installed on the high side of the roof with the roof shingles overlapping the top of the flashing base. The roof shingles must overlap the sides of the flashing base by a minimum of 1¹/₂ inches (38 mm), for one-quarter to one-half the length of the flashing base. The bottom edge of the flashing base must overlap the roof shingles by a minimum of 1¹/₂ inches (38 mm). The flashing base must be fastened at all corners and at 4 to 6 inches (102 to 152 mm) on center on all sides with minimum No. 11 gage [0.120-inch (3.0 mm)], ³/₈-inch-diameter-head (9.5 mm), corrosion-resistant nails. Fasteners must be of sufficient length to penetrate ³/₄ inch (19.1 mm) into the sheathing, or through the sheathing, whichever is less. Silicone sealant conforming to ASTM C920 may be used on the underside of the flashing base and exposed ends of the fasteners.

5.0 CONDITIONS OF USE

The Water-Tite® Roof Flashings 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 Water-Tite® Roof Flashings are limited to installations on roofs with asphalt shingle roof coverings in compliance with the applicable code.
- 5.3 Water-Tite® Roof Flashings must not be used with petroleum-based mastics.
- 5.4 Water-Tite® Roof Flashings may be installed on roof slopes from flat to 12:12 (100%) slope.

5.5 Water-Tite® Roof Flashings are limited to use with plumbing, gas or electrical pipe 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

Each Water-Tite® Roof Flashings described in this report must be identified by a stamp bearing the manufacturer’s name (IPS Corporation), the product name and the evaluation report number (ESR-3019).

TABLE 1—SERIES AND MODEL DESIGNATIONS

PRODUCT (SERIES)	MODEL NUMBER	SIZE OF VENT PIPE THE MODEL FITS (inches)
FB (Flexible Base)	FB-1	1½
	FB-2	2
	FB-3	3
	FB-4	4
	FB-31	1½, 2 and 3 (cut top to fit selected size)
	FB-34	3 and 4 (cut top to fit selected size)
HB (Hard Base)	HB-1	1¼ and 1½
	HB-2	2
	HB-3	3
	HB-4	4
	HB-31	1½, 2 and 3 (pull off tabs with pliers to fit selected size)
	HB-34	3 and 4 (pull off tabs with pliers to fit selected size)
GB (Galvanized Base)	GB-1	1¼ and 1½
	GB-2	2
	GB-3	3
	GB-4	4
	GB-31	1½, 2 and 3 (pull off tabs to fit selected size)
	GB-34	3 and 4 (pull off tabs with pliers to fit selected size)
AB (Aluminum Base)	AB-1	1¼ and 1½
	AB-2	2
	AB-3	3
	AB-4	4
	AB-31	1½, 2 and 3 (pull off tabs to fit selected size)
	AB-34	3 and 4 (pull off tabs with pliers to fit selected size)
CB (Copper Base)	CB-2	2
	CB-3	3
	CB-4	4
	CB-31	1½, 2 and 3 (pull off tabs to fit selected size)
	CB-34	3 and 4 (pull off tabs with pliers to fit selected size)
	Rain Collar	RC-31

For SI: 1 inch = 25.4 mm.
 Model suffix: BE = Bend Edge; 18 = 18 x 18 base; Black, Brown, Gray = Flashing Color.

ICC-ES Evaluation Report

ESR-3019 FBC Supplement

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WATER-TITE® ROOF FLASHINGS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Water-Tite® Roof Flashings, recognized in ICC-ES master evaluation report ESR-3019, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2014 *Florida Building Code—Building*
- 2014 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The Water-Tite® Roof Flashings, described in Sections 2.0 through 7.0 of the master evaluation report ESR-3019, comply with the 2014 *Florida Building Code—Building* and the 2014 *Florida Building Code—Residential*, provided the design and installation are in accordance with the *International Building Code*® (IBC) provisions noted in the master report.

Use of the Water-Tite® Roof Flashings for compliance with the High-Velocity Hurricane Zone provisions of the 2014 *Florida Building Code—Building* and 2014 *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).

This supplement expires concurrently with the master report, reissued July 2017.