

FPUP # P16FC00635
 DSD # P16BP07323

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A - PROPERTY INFORMATION				FOR INSURANCE COMPANY USE	
A1. Building Owner's Name Lu Ann Barr				Policy Number:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 3920 S. Thornton Ave.				Company NAIC Number:	
City Tucson		State Arizona		ZIP Code 85735	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Taxcode: 212-46-2140 Township 14S Range 12E Section 34 Tierra Bonita II Lot 28					
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Accessory: Detached Garage					
A5. Latitude/Longitude: Lat <u>32.175855</u> Long. <u>-111.103445</u> Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983					
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. <small>Pima County Regional Flood Control District requires four (4) photographs.</small>					
A7. Building Diagram Number <u>1b</u>					
A8. For a building with a crawlspace or enclosure(s):					
a) Square footage of crawlspace or enclosure(s) <u>335</u> sq ft					
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>2</u>					
c) Total net area of flood openings in A8.b <u>280</u> sq in <u>400</u>					
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
A9. For a building with an attached garage:					
a) Square footage of attached garage <u>NA</u> sq ft					
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>NA</u>					
c) Total net area of flood openings in A9.b <u>NA</u> sq in					
d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
B1. NFIP Community Name & Community Number Pima County / 040073			B2. County Name Pima County		B3. State Arizona
B4. Map/Panel Number 04019C2285	B5. Suffix L	B6. FIRM Index Date 09/28/2012	B7. FIRM Panel Effective/ Revised Date 06/16/2011	B8. Flood Zone(s) X	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 100.5
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input checked="" type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input checked="" type="checkbox"/> Other/Source Highest Adjacent Natural Grade (=100.0 ft) _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: <u>NA</u> <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 3820 S. Thornton Ave.			Policy Number:
City Tucson	State Arizona	ZIP Code 85735	Company NAIC Number

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: Highest ADJACENT NATURAL GRADE Vertical Datum: ASSUMED 100.0

Indicate elevation datum used for the elevations in items a) through h) below.

NGVD 1929 NAVD 1988 Other/Source: ASSUMED 100.0 = HANG USE

Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

- a) Top of bottom floor (including basement, crawspace, or enclosure floor) 100.6 feet meters
- b) Top of the next higher floor NA feet meters
- c) Bottom of the lowest horizontal structural member (V Zones only) NA feet meters
- d) Attached garage (top of slab) NA feet meters
- e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) NA feet meters
- f) Lowest adjacent (finished) grade next to building (LAG) 100.2 feet meters
- g) Highest adjacent (finished) grade next to building (HAG) 100.5 feet meters
- h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support NA feet meters

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No Check here if attachments.

Certifier's Name <u>Fred STURNIOLO</u>	License Number <u>RLS 12537</u>
Title <u>Vice President</u>	
Company Name <u>PRECISION LAND SURVEYING, INC</u>	
Address <u>8219 E. 22ND STREET</u>	
City <u>TUCSON</u>	State <u>ARIZ</u>
	ZIP Code <u>85710</u>
Signature <u>Fred Sturniolo</u>	Date <u>8/23/2017</u>
	Telephone <u>520-298-3200</u>



EXPIRES: 6/30/2019

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments (including type of equipment and location, per C2(e), if applicable)
The lowest service equipment (C3.e) is the NA and the _____ is/are above this elevation.
Highest adjacent natural grade is 100.0 Lowest adjacent natural grade is 100.00

No Service Equipment At this Time.

ELEVATION CERTIFICATE

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City Tucson	State Arizona	ZIP Code 85735	Company NAIC Number

**SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED)
FOR ZONE AO AND ZONE A (WITHOUT BFE)**

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
- a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the HAG.
 - b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the LAG.
- E2. For Building Diagrams that with permanent flood elevation provided in Section A Item B (see pages 1–2 of Instructions), the next higher flood elevation C2.b in the diagrams) of the building is _____ feet meters above or below the HAG.
- E3. Attached garage top of platform is _____ feet meters above or below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is _____ feet meters above or below the HAG.
- E5. Zone AO only. If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner or Owner's Authorized Representative's Name _____

Address _____ City _____ State _____ ZIP Code _____

Signature _____ Date _____ Telephone _____

Comments

Check here if attachments.

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008
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ELEVATION CERTIFICATE

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City Tucson	State Arizona	ZIP Code 85735	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with data taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



SE
VIEW
|
ε
|
FRONT

PHOTOS
TAKEN ON
8/22/2017

Photo



NW
VIEW
|
ε
|
REAR

Photo

BUILDING PHOTOGRAPHS

Continuation Page

OMB No. 1660-0008
Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 3920 S. Thornton Ave.			Policy Number:
City Tucson	State Arizona	ZIP Code 85735	Company NAIC Number

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.



NE
VIEW
↓
↓
RIGHT
SIDE

PHOTOS
TAKE ON
8/22/2017

Photo



SW
VIEW
↓
↓
LEFT
SIDE

Photo

New Garage installed Smart Vents # 1540-520 Stainless 200 sq feet of water each



3920 S. Thornton Avenue, Tucson AZ 85735



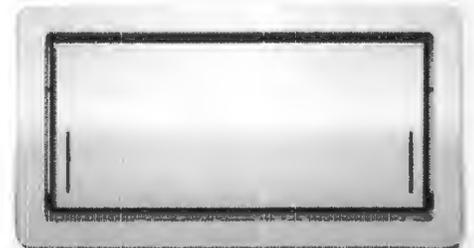
SMART VENT
Foundation Flood Vents



STANDARD FINISH POWDER COAT WHITE
POWDER COAT PAINT OPTIONS:



Custom colors also available.



MODEL NUMBER	FLOOD COVERAGE	VENT SIZE	ROUGH OPENING
* 1540-520	200 sq. ft.	16"W x 8"H x 3"D	16 $\frac{1}{4}$ in x 8 $\frac{1}{4}$ in
1540-521	400 sq. ft.	16"W x 16"H x 3"D	16 $\frac{1}{4}$ in x 16 $\frac{3}{8}$ in
1540-570	200 sq. ft.	14 $\frac{1}{2}$ "W x 8 $\frac{1}{2}$ "H x 3"D	14 $\frac{1}{2}$ in x 8 $\frac{3}{4}$ in



To view other sizing options see Multi-frames

For more information on Flood Protection Solutions, contact:

Smart Vent 430 Andro Drive, Unit 1 • Pitman, NJ 08071

Website: www.smartvent.com Tel: (877) 441-8368 Email: info@smartvent.com

Model Number	Description	Flood Coverage	Air Ventilation
1540-520	FLOOD VENT	200 sq. ft.	n/a
Vent Size		Rough Opening	
16-in. x 8-in.		16 1/4-in. x 8 1/4-in.	



Installation and Features-Benefits Videos

About Insulated Flood Vents

BIM Files Now Available on ARCAT

[Continue to ARCAT.com](http://ARCAT.com)

Application

This series is used for a garage or conditioned space where flood protection is required but air ventilation is not desired. For situations where a sealed crawlspace is being utilized in a floodplain, flood protection is still required and the Insulated FLOOD VENT series is the perfect fit for those applications.

Flood Protection

The vent door is latched closed until it comes in contact with flood water. Entering flood water lifts the patented internal floats which unlatch and allow the door to rotate open. This allows the flood water to automatically enter and exit through the frame opening, relieving the pressure from the foundation walls. Certified flood debris clearance is demonstrated with a 3" diameter opening when the flood door is activated.

Insulation

The flood door contains a 2" insulated core that has an R-value of 8.34. There is also a felt weather stripping that lines the entire vent frame helping to keep the enclosure as insulated as possible.

Flood Resistant Materials

The Smart Vent product line is constructed out of Marine Grade Stainless Steel and is 100% made in the United States. T316L Stainless Steel is renowned for its ability to withstand usage in harsh marine and chemical environments, ensuring that our products will handle everything Mother Nature throws at them. Because T316L Stainless Steel is known for its strength and resistance to cracking, dents, and embrittlement it's utilized in high profile projects meant to last decades. Alloyed with Chrome, Nickel, and Molybdenum, T316L Stainless Steel takes the strength of steel and adds protection making it the ultimate flood resistant material.



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ICC-ES Report

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ESR-2074

Reissued 02/2017
This report is subject to renewal 02/2019.

DIVISION: 08 00 00—OPENINGS
SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

REPORT HOLDER:

SMARTVENT PRODUCTS, INC.

430 ANDBRO DRIVE, UNIT 1
PITMAN, NEW JERSEY 08071

EVALUATION SUBJECT:

**SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS:
MODELS #1540-520; #1540-521; #1540-510; #1540-511;
#1540-570; #1540-574; #1540-524; #1540-514**



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DIVISION: 08 00 00—OPENINGS
Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMARTVENT PRODUCTS, INC.
430 ANDRO DRIVE, UNIT 1
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(877) 441-8368

www.smartvent.com
info@smartvent.com

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS:
MODELS #1540-520; #1540-521; #1540-510; #1540-511;
#1540-570; #1540-574; #1540-524; #1540-514

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2015, 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:

- Physical operation
- Water flow

2.0 USES

The Smart Vent® units are engineered mechanically operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

3.0 DESCRIPTION

3.1 General:

When subjected to rising water, the Smart Vent® FVs internal floats are activated, then pivot open to allow flow in either direction to equalize water level and hydrostatic pressure from one side of the foundation to the other. The FV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water, the buoyant release device causes the unit to unlatch, allowing the door to rotate out of the way and allow flow.

The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent® Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT® Stacking Model #1540-511 and FloodVENT™ Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

3.2 Engineered Opening:

The FVs comply with the design principle noted in Section 2.7.2.2 and Section 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)] for a maximum rate of rise and fall of 5.0 feet per hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/SEI 24, Smart Vent FVs must be installed in accordance with Section 4.0.

3.3 Ventilation:

The SmartVENT® Model #1540-510 and SmartVENT™ Overhead Door Model #1540-514 both have screen covers with 1/4-inch-by-1/4-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 mm²) of net free area to supply natural ventilation. The SmartVENT® Stacking Model #1540-511 consists of two Model #1540-510 units in one assembly and provides 102 square inches (65 806 mm²) of net free area to supply natural ventilation. Other FVs recognized in this report do not offer natural ventilation.

4.0 DESIGN AND INSTALLATION

SmartVENT® and FloodVENT™ are designed to be installed into walls or overhead doors of existing or new construction from the exterior side. Installation of the vents must be in accordance with the manufacturer's instructions, the applicable code and this report. Installation clips allow mounting in masonry and concrete walls of any thickness. In order to comply with the engineered opening design principle noted in Section 2.7.2.2 and 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)], the Smart Vent® FVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area
- With a minimum of one FV for every 200 square feet (18.6 m²) of enclosed area, except that the SmartVENT® Stacking Model #1540-511 and FloodVENT™ Stacking Model #1540-521 must be installed with a minimum of one FV for every 400 square feet (37.2 m²) of enclosed area.
- Below the base flood elevation.

ICC-ES Evaluation Reports are not to be used as representing architect's or any other attributes and specifications addressed by or to be construed as endorsement of the quality of the report, nor recommendations for its use. The user must consult the ICC-ES Bulletin, which may be implied in this report, and other material in this report, for additional product coverage by the report.



- With the bottom of the FV located a maximum of 12 inches (305.4 mm) above the higher of the final grade or floor and finished exterior grade immediately under each opening.

5.0 CONDITIONS OF USE

The Smart Vent® FVs 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 The Smart Vent® FVs must be installed in accordance with this report, the applicable code and the manufacturer's installation instructions. In the event of a conflict, the instructions in this report govern.
- 5.2 The Smart Vent® FVs must not be used in the place of "breakaway walls" in coastal high hazard areas, but

are permitted for use in conjunction with breakaway walls in other areas.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC308), dated August 2015.

7.0 IDENTIFICATION

The Smart VENT® models recognized in this report must be identified by a label bearing the manufacturer's name (Smartvent Products, Inc.), the model number, and the evaluation report number (ESR-2074).

TABLE 1—MODEL SIZES

MODEL NAME	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
FloodVENT®	1540-520	15 1/4" X 7 1/4"	200
SmartVENT®	1540-510	15 1/4" X 7 1/4"	200
FloodVENT® Overhead Door	1540-524	15 1/4" X 7 1/4"	200
SmartVENT® Overhead Door	1540-514	15 1/4" X 7 1/4"	200
Wood Wall FloodVENT®	1540-570	14" X 3 1/4"	200
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 3 1/4"	200
SmartVENT® Stacker	1540-511	16" X 16"	400
FloodVent® Stacker	1540-521	16" X 16"	400

For SI: 1 inch = 25.4 mm; 1 square foot = m²

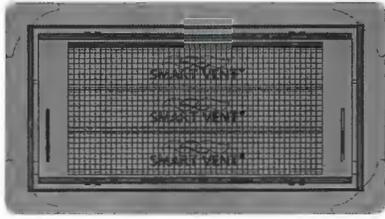


FIGURE 1—SMART VENT: MODEL 1540-510



FIGURE 2—SMART VENT MODEL 1540-520

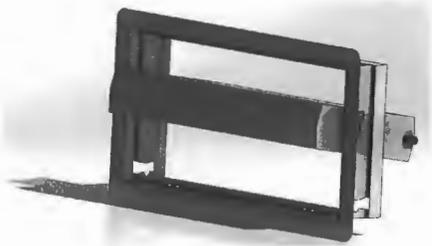


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

Issued January 2017

This report is subject to renewal February 2019.

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Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMARTVENT PRODUCTS, INC.
430 ANDBRO DRIVE, UNIT 1
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info@smartvent.com

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570;
#1540-574; #1540-524; #1540-514

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, recognized in ICC-ES master evaluation report ESR-2074, have also been evaluated for compliance with codes noted below.

Applicable code edition:

- 2016 California Building Code (CBC)
- 2016 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with 2016 CBC Chapter 12, provided the design and installation are in accordance with the 2015 *International Building Code*® (IBC) provisions noted in the master report and the additional requirements of CBC Chapters 12, 16 and 16A, as applicable.

The products recognized in this supplement have not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.2 CRC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the 2016 CRC, provided the design and installation are in accordance with the 2015 *International Residential Code*® (IRC) provisions noted in the master report.

The products recognized in this supplement have not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The products recognized in this supplement have not been evaluated for compliance with the International Wildland-Urban Interface Code®.

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

DIVISION: 08 00 00—OPENINGS
Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, recognized in ICC-ES master report ESR-2074, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2014 Florida Building Code—Building (FBC)
- 2014 Florida Building Code—Residential (FRC)

2.0 CONCLUSIONS

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the FBC and the FRC, provided the design and installation are in accordance with the *International Building Code*® provisions noted in the master report.

Use of the Smart Vent® Automatic Foundation Flood Vents has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the FBC and the FRC.

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 February 2017.