U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency

National Flood Insurance Program

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

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 INSUF	RANCE COMPANY USE	
A1. Building Owner's Name BONAIRE LBK LLC	Policy Numl	ber:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 5005 GULF OF MEXICO DR UNIT 9	Company N	AIC Number:	
City State	ZIP Code		
LONGBOAT KEY Florida	34228		
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) UNIT NO, 9 OF BONAIRE AT LONGBOAT KEY, A CONDOMINIUM, Parcel 8009200509			
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENCE			
A5. Latitude/Longitude: Lat. 27.4043851 Long82.6525298 Horizontal Dat	um: NAD 1	927 X NAD 1983	
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood in	surance.	_	
A7. Building Diagram Number 6			
A8. For a building with a crawlspace or enclosure(s):			
a) Square footage of crawlspace or enclosure(s) 476 sq ft			
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot about	ove adjacent gra	ide 3	
c) Total net area of flood openings in A8.b 153 sq in			
d) Engineered flood openings? X Yes No			
A9. For a building with an attached garage:			
a) Square footage of attached garagesq ft			
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjaces	nt grade 7		
c) Total net area of flood openings in A9.b 306 sq in	g.aao		
d) Engineered flood openings? 🗵 Yes 🗌 No			
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFOR	MATION		
B1. NFIP Community Name & Community Number B2. County Name B3. State			
LONGBOAT KEY-125126 MANATEE		FL.	
Number Date Effective/ Zone(s) (Z	9. Base Flood E one AO, use Ba	levation(s) ase Flood Depth)	
12081C 0294 E 03-17-2014 Revised Date 03-17-2014 AE	10"		
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:			
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other/Source:			
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 X NAVD 1988 Other/Source:			
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? 🗌 Yes 🗵 No			
Designation Date: CBRS OPA			

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspon	nding information from Sec	ction A.	FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, Suite, a 5005 GULF OF MEXICO DR UNIT 9	and/or Bldg. No.) or P.O. Rou	ite and Box No.	Policy Number:	
City LONGBOAT KEY	State ZIP Florida 3422	Code 28	Company NAIC Number	
SECTION C - BUILDING	G ELEVATION INFORMAT	TION (SURVEY RE	EQUIRED)	
	truction Drawings* Building BFE), VE, V1–V30, V (with BI e building diagram specified in Vertical Datum: In sin items a) through h) below ther/Source: It is same as that used for the Birawlspace, or enclosure floor) In the servicing the building in Comments)	ding Under Construng is complete. FE), AR, AR/A, AR/A, In Item A7. In Puerto NAVD 88 w. BFE.	action* X Finished Construction AE, AR/A1–A30, AR/AH, AR/AO.	
g) Highest adjacent (finished) grade next to bu			6.0 X feet meters	
h) Lowest adjacent grade at lowest elevation of structural support			N/A X feet meters	
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION				
This certification is to be signed and sealed by a lar I certify that the information on this Certificate represtatement may be punishable by fine or imprisonmed. Were latitude and longitude in Section A provided be Certifier's Name LELAND E. BEDWELL	esents my best efforts to inter ent under 18 U.S. Code, Sect	pret the data availa tion 1001.	law to certify elevation information. ble. I understand that any false Check here if attachments.	
Title REGISTERED SURVEYOR Company Name LELAND E. BEDWELL SURVEYING, INC. Address 3423 55TH DRIVE EAST City	State	ZIP Code	OF TOP TO THE PARTY OF THE PART	
BRADENTON	Florida	34203	9-18-2019	
Signature Copy all pages of this Elevation Conficate and all atta	Date 9-18-2019 achments for (1) community of	Telephone (941) 753-9994 ficial, (2) insurance a	Ext. NA agent/company, and (3) building owner.	
Comments (including type of equipment and location LOWEST MACHINERY/ EQUIPMENT SERVICING ELEVATION= 7.1.0 FEET, THERE ARE 10 SM/ MINIMUM 6.42 VENTS NEED, EACH VENT IS CA & EACH VENT HAVING A NET FREE AREA OF 51 COPIES OF THE ICC-ESB EVALUATION REPOR	THE BUILDING BEING ELE ART VENTS, MODEL 154 APABLE OF 200 SQ. FT. FOI I SQ IN., ROOF PEEK EL. =4	10-520. The form r a total of 200 48.5' note; cont	MULA WOULD BE 1284/200= O S.F. OF BUILDING COVERAGE,	

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding	g information from Sec	tion A.	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite, and/o 5005 GULF OF MEXICO DR UNIT 9	or Bldg. No.) or P.O. Rou	te and Box No.	Policy Number:		
	ate ZIP orida 342	Code 28	Company NAIC Number		
SECTION E – BUILDING ELE FOR ZONE	VATION INFORMATIO AO AND ZONE A (WIT		REQUIRED)		
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 of the highest adjacent grade (HAG) and the lowest grade (HAG) and the lo		es to show whethe	r the elevation is above or below		
 Top of bottom floor (including basement, crawlspace, or enclosure) is 	N/A	☐ feet ☐ meter	s above or below the HAG.		
 Top of bottom floor (including basement, crawlspace, or enclosure) is 	N/A	feet meter	s above or below the LAG.		
E2. For Building Diagrams 6–9 with permanent flood op	enings provided in Section	on A Items 8 and/or	9 (see pages 1–2 of Instructions),		
the next higher floor (elevation C2.b in the diagrams) of the building is	N/A	☐ feet ☐ meter	s above or below the HAG.		
E3. Attached garage (top of slab) is	N/A	☐ feet ☐ meter	s above or below the HAG.		
E4. Top of platform of machinery and/or equipment servicing the building is	N/A	☐ feet ☐ meter	s above or below the HAG.		
E5. Zone AO only: If no flood depth number is available floodplain management ordinance? Yes			cordance with the community's certify this information in Section G.		
SECTION F – PROPERTY OWN	ER (OR OWNER'S REP	RESENTATIVE) CE	ERTIFICATION		
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	who completes Sections statements in Sections	s A, B, and E for Zo A, B, and E are cor	ne A (without a FEMA-issued or rect to the best of my knowledge.		
Property Owner or Owner's Authorized Representative's Name N/A					
Address N/A	City N/A	Sta	ate ZIP Code N/A		
Signature	Date	Те	lephone		
Comments					
			Check here if attachments.		

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corr	esponding information from	m Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, S 5005 GULF OF MEXICO DR UNIT 9	uite, and/or Bldg. No.) or P.C). Route and Box No.	Policy Number:
City LONGBOAT KEY	State Florida	ZIP Code 34228	Company NAIC Number
SECTION	ON G - COMMUNITY INFOR	RMATION (OPTIONAL)	
The local official who is authorized by law or o Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, er	n Certificate. Complete the ap nter meters.	oplicable item(s) and sign	n below. Check the measurement
G1. The information in Section C was takengineer, or architect who is authorized that in the Comments area below.)			
G2. A community official completed Sect or Zone AO.			
G3. The following information (Items G4-	-G10) is provided for commu	nity floodplain managem	nent purposes.
G4. Permit Number	G5. Date Permit Issued		Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction Sub	stantial Improvement	
G8. Elevation of as-built lowest floor (including of the building:	g basement) ————	fee	t meters Datum
G9. BFE or (in Zone AO) depth of flooding at	the building site:	feet	t meters Datum
G10. Community's design flood elevation:		fee	t meters Datum
Local Official's Name	Title	Э	
Community Name	Tel	ephone	
Signature	Dat	е	
Comments (including type of equipment and lo	cation, per C2(e), if applicabl	e)	
			Check here if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

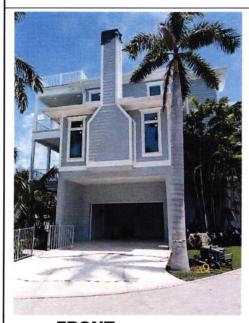
See Instructions for Item A6.

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. 5005 GULF OF MEXICO DR UNIT 9			Policy Number:
City LONGBOAT KEY	State Florida	ZIP Code 34228	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 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. If submitting more photographs than will fit on this page, use the Continuation Page.







FRONT

ADDRESS #9

Photo One

Photo One Caption 9-18-2019







FRONT

SIDE

REAR

Photo Two Caption 9-18-2019

Clear Photo Two

Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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. 5005 GULF OF MEXICO DR UNIT 9			Policy Number:
City LONGBOAT KEY	State Florida	ZIP Code 34228	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.



REAR



TURF

Photo Three

Photo Three Caption 9-18-2019

Clear Photo Three



SMART VENT

Photo Four

Photo Four Caption 9-18-2019

Clear Photo Four



Most Widely Accepted and Trusted

ICC-ES Evaluation Report

ICC-ES | (800) 423-6587 | (562) 699-0543 | www.icc-es.org

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

RECEIVED

JAN 2 8 2020

TOWN OF LONGBOAT KEY Planning, Zoning and Building



Look for the trusted marks of Conformity!

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



ACCREDITED

ISO/IEC 17085

Product Cartification Bords



ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.



ICC-ES Evaluation Report

ESR-2074

Reissued February 2017 Revised November 2017

This report is subject to renewal February 2019.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

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** (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 $\frac{1}{4}$ -inch-by- $\frac{1}{4}$ -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 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.
- 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 (AC364), 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 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT [®]	1540-510	15 ³ / ₄ " X 7 ³ / ₄ "	200
FloodVENT® Overhead Door	1540-524	15 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT® Overhead Door	1540-514	15 ³ / ₄ " X 7 ³ / ₄ "	200
Wood Wall FloodVENT®	1540-570	14" X 8 ³ / ₄ "	200
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 8 ³ / 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

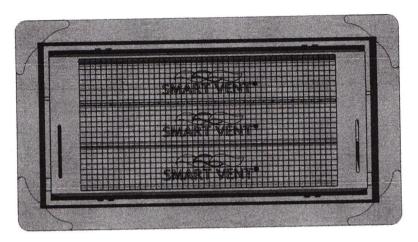


FIGURE 1—SMART VENT: MODEL 1540-510

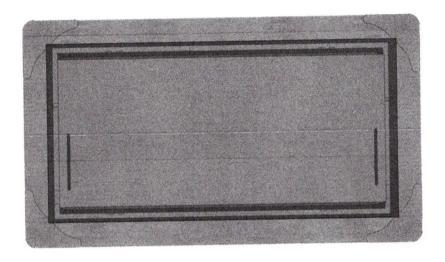


FIGURE 2—SMART VENT MODEL 1540-520

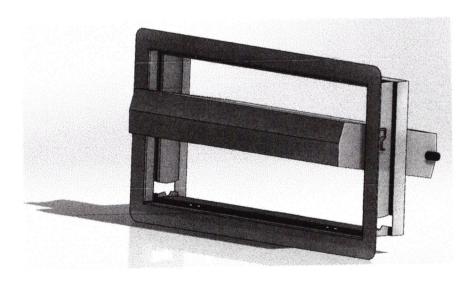


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN



ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

Issued February 2017 Revised November 2017 This report is subject to renewal February 2019.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

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 (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 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 and revised November 2017.





ICC-ES Evaluation Report

ESR-2074 FBC Supplement

Reissued February 2017 Revised November 2017 This report is subject to renewal February 2019.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

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 (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 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:

- 2017 Florida Building Code—Building
- 2017 Florida Building Code—Residential

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 *Florida Building Code—Building* and the FRC, provided the design and installation are in accordance with the 2015 *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 Florida Building Code—Building and the Florida Building Code—Residential.

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 and revised November 2017.