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

National Flood Insurance Program

OMB No. 1660-0008 Expiration Date: November 30, 2022

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.

		CTION A - PROPERT	Y INFOF	RMATION			FOR IN	NSURANCE	COMPANY USE
A1. Building Owner's Name Roman Construction				Policy	Number:				
		and adding Ant Unit Co.	the mode	Dido Na)		Dentaged			
Box No. 86 Adriatic Avenue		ncluding Apt., Unit, Sui	ite, and/d	эг віад. 140.) (or P.O.	Route and	Compa	any NAIC Nu	ımber:
City Ocean Twp. (\				State New Je			ZIP Co 08758		
A3. Property Desi		and Block Numbers, T	ax Parce	l Number, Le	gal Des	scription, etc	C.)		
_		ntial, Non-Residential,		•	' -		al		
A5. Latitude/Long	itude: Lat. 3	39.78945	Long. 0	74.18678		Horizontal	l Datum: 🔲 N	AD 1927	✓ NAD 1983
A7. Building Diagr A8. For a building	ram Number with a crawls	phs of the building if the bui	•				d insurance.	3.6 0	ved
b) Number of	permanent fl	ood openings in the cr	rawispac	e or enclosur	e(s) wit	- thin 1.0 foot	above adjacer	nt grade 5	
		penings in A8.b					NOTE:		
		ngs? 🛛 Yes 🔲 N							
A9. For a building v	with an attacl	ned garage:							
_		hed garage		320.00 sq f	t				
		ood openings in the at				t above adia	acentidrade 2		
		penings in A9.b				t above auje	zocin grade		
		ngs? 🛛 Yes 🗍 N			,				
, ,		٠ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ							
		ECTION B - FLOOD I	INSURA	NCE RATE	MAP (FIRM) INFO	ORMATION		
B1. NFIP Commun Ocean Twp. 34051		Community Number		B2. County Ocean	Name			B3. S New J	
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	RM Panel ective/ vised Date	B8. FI Zone(B9. Base Floo (Zone AO	od Elevation , use Base I	(s) Flood Depth)
34029C0416	F	06-20-2018	09-29-2		AE *		6' *		
		Base Flood Elevation Community Deterr				oth entered i	in Item B9:		
		used for BFE in Item B		_	6.00	/D 1988 [Other/Sour	rce:	
B12. Is the building	a located in a	Coastal Barrier Reso	ources Sv	rstem (CBRS)) area c	or Otherwise	Protected Are		→ Ves V No
Designation E				OPA	/ w.c	// 00/01/11/00	3 1 10t00t00 7 tt 0	18 (OL A): L	_ 169 [V] MO

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corres	ponding information from	Section A.	FOR IN	SURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suit 86 Adriatic Avenue			Policy I	Number:
City	State Z	IP Code	Compa	ny NAIC Number
Ocean Twp. (Waretown)	New Jersey 0	8758		
SECTION C - BUILD	DING ELEVATION INFORM	ATION (SURVEY R	EQUIRE	ED)
*A new Elevation Certificate will be required	d when construction of the bu			
C2. Elevations – Zones A1–A30, AE, AH, A (will Complete Items C2.a–h below according to	the building diagram specific	ed in item A7. In Puen	/AE, AR/ to Rico o	A1–A30, AR/AH, AR/AO. only, enter meters.
Benchmark Utilized: GPS / OPUS		ım: <u>NAVD 1988</u>		
Indicate elevation datum used for the eleva		elow.		
☐ NGVD 1929 ☑ NAVD 1988 ☐ Datum used for building elevations must be	Other/Source: the same as that used for the	e BFE.	Che	eck the measurement used.
a) Top of bottom floor (including basemen	t, crawlspace, or enclosure fle	oor)	4.6	
b) Top of the next higher floor			9.9	feet meters
c) Bottom of the lowest horizontal structure	al member (V Zones only)		N/A	
d) Attached garage (top of slab)	,		5.3	
e) Lowest elevation of machinery or equip (Describe type of equipment and location)	ment servicing the building on in Comments)		9.7	☑ feet ☐ meters
f) Lowest adjacent (finished) grade next t			4.2	
g) Highest adjacent (finished) grade next			5.3	feet meters
h) Lowest adjacent grade at lowest elevat structural support			4.2	⊠ feet ☐ meters
	EVEYOR, ENGINEER, OR	ARCHITECT CERTIF	ICATIO	N
This certification is to be signed and sealed by I certify that the information on this Certificate r statement may be punishable by fine or impriso	a land surveyor, engineer, or	architect authorized b	v law to	certify elevation information.
Were latitude and longitude in Section A provide	led by a licensed land survey	or? 🛮 Yes 🗆 No		Check here if attachments.
Certifier's Name	License Number			
Bernard M. Collins	29181		_	
Title Professional Land Surveyor				Place
Company Name Bernard M. Collins Surveying, Inc.				Seal
Address 7 Pelican Drive, Unit 2				Here
City Bayville	State New Jersey	ZIP Code 08721		
Signature	Date 08-04-2021	Telephone (732) 341-4200	Ext.	
Copy all pages of this Elevation Certificate and a	Il attachments for (1) communi	ty official, (2) insurance	agent/co	ompany, and (3) building owner
Comments (including type of equipment and lo * The Revised Preliminary Base Flood Elevation 01-30-2015. The equipment servicing the build 9.2'. All vents installed are Smartvents.	in io 71 in Zona AE as shown i	on Revised Preliminar	y FIRM 3 ectric me	34027C0416G dated eter has a lowest elevation of
Job No. S-34783				

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the co				FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, 86 Adriatic Avenue	Suite, and/or Bldg.	No.) or P.O. Route and Box	No.	Policy Number:
City	State	ZIP Code		Company NAIC Number
Ocean Twp. (Waretown)	New Jerse			Company to to training
SECT	ION G - COMMUN	ITY INFORMATION (OPTIC	ONAL)	
The local official who is authorized by law or of Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, e	n Cenincare Como	ster the community's floodp lete the applicable item(s) a	lain mar and sign	nagement ordinance can complete below. Check the measurement
G1. The information in Section C was ta engineer, or architect who is author data in the Comments area below.)	ken from other doc ized by law to certif	umentation that has been si y elevation information. (Ind	gned an	nd sealed by a licensed surveyor, e source and date of the elevation
G2. A community official completed Second Zone AO.	tion E for a building	located in Zone A (without	a FEMA	A-issued or community-issued BFE)
G3. The following information (Items G4	~G10) is provided f	or community floodplain ma	nageme	ent purposes.
G4. Permit Number	G5. Date Permit	Issued		ate Certificate of ompliance/Occupancy Issued
G7. This permit has been issued for:	New Constructio	n 🗌 Substantial Improvem	ent	
G8. Elevation of as-built lowest floor (includin of the building:	g basement)		feet	meters Datum
G9. BFE or (in Zone AO) depth of flooding at	the building site:	<u> </u>] feet	meters Datum
G10. Community's design flood elevation:	_		feet	meters Datum
Local Official's Name		Title		
Community Name		Telephone		
Signature		Date	•	
Comments (including type of equipment and lo	cation per C2(a) if	annlicable)		
the state (instance of the state of the stat	batton, per oz(e), n	applicable)		
				Check here if attachments.

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2022

MPORTANT: In these spaces, copy the corresponding	g information from Section A.		FOR INSURANC	E COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/o	or Bidg. No.) or P.O. Route and E	Box No.	Policy Number:	
86 Adriatic Avenue	•			
	ate ZIP Code		Company NAIC	Number
City	ew Jersey			
SECTION E - BUILDING ELE	·	VEY NOT	REQUIRED)	
FOR ZONE	AO AND ZONE A (WITHOUT	BFE)		
For Zones AO and A (without BFE), complete Items E1–complete Sections A, B,and C. For Items E1–E4, use na enter meters.	turai grade, ii avaliable. Check ti	ie ilieasurei	more dood	,,
E1. Provide elevation information for the following and of the highest adjacent grade (HAG) and the lowest grade (HAG) and the lo	heck the appropriate boxes to shi jacent grade (LAG).	now whethe	r the elevation is a	bove or below
 Top of bottom floor (including basement, crawlspace, or enclosure) is 	fee	t 🗌 meter	s above or	below the HAG.
 Top of bottom floor (including basement, crawlspace, or enclosure) is 		et 🗌 meter	_	below the LAG.
E2. For Building Diagrams 6–9 with permanent flood op	enings provided in Section A Iter	ns 8 and/or	9 (see pages 1-2	of Instructions),
the next higher floor (elevation C2.b in the diagrams) of the building is		et 🗌 meter		below the HAG.
E3. Attached garage (top of slab) is	[] fee	et 🗌 meter	rs 🗌 above or	below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is	fee	et 🔲 mete	rs 🔲 above or	below the HAG.
E5. Zone AO only: If no flood depth number is available floodplain management ordinance? Yes	e, is the top of the bottom floor ele No	evated in ac official must	cordance with the certify this informa	community's ation in Section G.
SECTION F - PROPERTY OWN	ER (OR OWNER'S REPRESEN	TATIVE) CI	ERTIFICATION	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	e who completes Sections A, B, e statements in Sections A, B, a	and E for 7	nne Δ (without a F	EMA-issued or my knowledge.
Property Owner or Owner's Authorized Representative's	s Name	_		
Address	City	S	tate	ZIP Code
Signature	Date	To	elephone	
Comments				
			Check I	nere if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the cor			FOR INSURANCE COMPANY USE
Building Street Address (Including Apt., Unit, \$ 86 Adriatic Avenue	Suite, and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:
City Ocean Twp. (Waretown)	State New Jersey	ZIP Code	Company NAIC Number

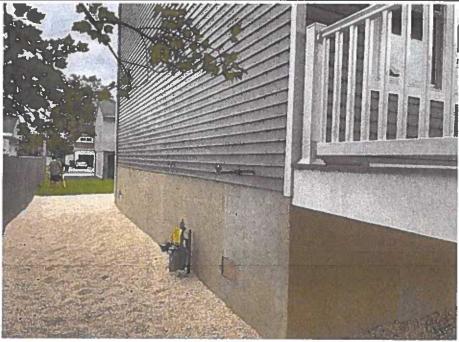
If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, 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.



Photo One

FRONT VIEW (08-04-2021) Photo One Caption

Clear Photo One



Pholo Two

LEFT SIDE VIEW (08-04-2021) Photo Two Caption

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the	ne corresponding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., 86 Adriatic Avenue			Policy Number:
City Ocean Twp. (Waretown)	State New Jersey	ZIP Code	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.



Photo Three

Photo Three Caption REAR VIEW (08-04-2021)

Clear Photo Three



Photo Four

Photo Four Caption RIGHT SIDE VIEW (08-04-2021)

Clear Photo Four





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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ICC-ES Evaluation Report

ESR-2074

Reissued February 2017

This report is subject to renewal February 2019.

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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 #1540-620; #1540-621; #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)[†]

¹The 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 (RC)) 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, vielding 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 Stacking Model #1540-511 and SmartVENT® 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

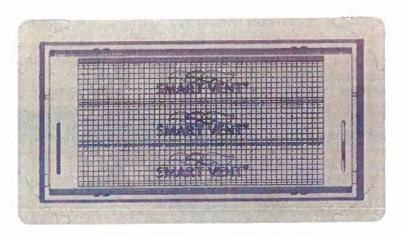


FIGURE 1-SMART VENT: MODEL 1540-510

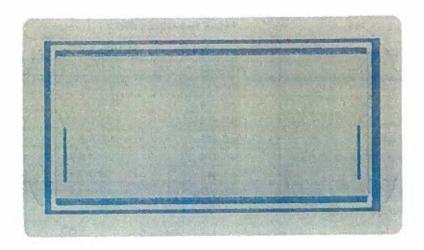


FIGURE 2-SMART VENT MODEL 1540-520

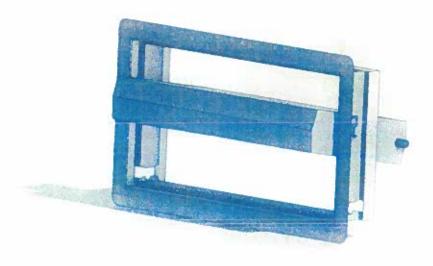


FIGURE 3-SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN



ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

Issued January 2017

This report is subject to renewal February 2019

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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; #1540-670; #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 Seventy 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.





ICC-ES Evaluation Report

ESR-2074 FBC Supplement

Reissued February 2017

This report is subject to renewal February 2019.

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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:

- 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.

