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

National Flood Insurance Program



ELEVATION CERTIFICATE

E0319

Important: Follow the instructions on pages 1-9.

Copy all pages of this	Elevation Ce	ertificate and all attachm	nents fo	or (1) community off	icial, (2) insurance ag	gent/compa	ny, and (3) building owner
		TION A - PROPERTY	INFO	RMATION		FOR INSU	RANCE COMPANY USE
A1. Building Owner SHERRY KING	er's Name					Policy Nun	nber:
A2. Building Stree Box No. 6836 PINE STREE		cluding Apt., Unit, Suite	e, and/	or Bldg. No.) or P.C). Route and	Company I	NAIC Number:
City			-	State		ZIP Code	
TOWN OF LC				Florida		34228	
A3. Property Desc TAX PARCEL NU		nd Block Numbers, Ta: .0000/9	x Parce	el Number, Legal D	escription, etc.)		
A4. Building Use (e.g., Resider	itial, Non-Residential, A	Addition	n, Accessory, etc.)	RESIDENTIAL		
A5. Latitude/Longi	tude: Lat. 2	7°26'03.9" N	Long.	082°40'48.1" W	Horizontal Datum	: NAD	1927 NAD 1983
A6. Attach at least	2 photograp	hs of the building if the	Certifi	cate is being used t	o obtain flood insura	ince.	
A7. Building Diagra	am Number	1A					
A8. For a building	with a crawls	pace or enclosure(s):					
a) Square foo	tage of crawl	space or enclosure(s)		1,864 sq ft			
b) Number of	permanent flo	ood openings in the cra			vithin 1.0 foot above	adiacent gr	ade 10 X
		penings in A8.b 1,2		sq in		, 0	
		gs? 🛛 Yes 🗌 No		•			
A9. For a building v		3000 9 0 10 000					
				a. #			
		ed garage N/A					
		ood openings in the atta		garage within 1.0 fo	ot above adjacent g	rade	0
c) Total net are		-	0	sq in			
d) Engineered	flood opening	gs? ☐ Yes ☒ No	0				
		CTION B - FLOOD IN	ISURA	NCE RATE MAP	(FIRM) INFORMAT	ΓΙΟΝ	
B1. NFIP Communi				B2. County Name	1		B3. State
TOWN OF LONGB	OAT KEY 12	5126		MANATEE COU	NTY		Florida
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	E1	IRM Panel ffective/ evised Date	B8. Flood Zone(s)	(Zor	ee Flood Elevation(s) ne AO, use Base nd Depth)
12081C0291	Е	03-17-2014	03-17	7-2014	AE	9	
		Base Flood Elevation (E			epth entered in Item	B9:	
		ed for BFE in Item B9:	_	_	.VD 1988 □ Othe	er/Source:	
				_		j. -	
		Coastal Barrier Resour	ces Sy				PA)? Yes X No
Designation D	ate:	C	BRS	☐ OPA	RECEIVE	D	
		9"			AUG 3 0 2019		

SWELL CADAS HERE

RECEIVED

AH6 30 2019

TOWN OF LONGBOAT KEY Planning, Zening and Building

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

IMPORTANT: In these spaces, copy the corres			FOR INSURANC	CE COMPANY USE
Building Street Address (including Apt., Unit, Suit 6836 PINE STREET	e, and/or Bldg. No.) or P.O. Rou	ite and Box No.	Policy Number:	
City	State ZIP	Code	Company NAIC	Number
TOWN OF LONGBOAT KEY	FLORIDA 34	1228		
SECTION C - BUILD	DING ELEVATION INFORMAT	TION (SURVEY R	EQUIRED)	
C1. Building elevations are based on: Co *A new Elevation Certificate will be required		ding Under Construng is complete.	ıction* 🗵 Finisl	hed Construction
C2. Elevations – Zones A1–A30, AE, AH, A (wi Complete Items C2.a–h below according to	the building diagram specified	in Item A7. In Puert	AE, AR/A1–A30, Ao Rico only, enter	AR/AH, AR/AO. meters.
Benchmark Utilized: SEE COMMENTS	Vertical Datum:			
Indicate elevation datum used for the eleva		W.		
☐ NGVD 1929 🔀 NAVD 1988 ☐				
Datum used for building elevations must be	the same as that used for the E	BFE.	Check the me	easurement used.
a) Top of bottom floor (including basement	, crawlspace, or enclosure floor	4.4		meters
b) Top of the next higher floor		14. 2		☐ meters
c) Bottom of the lowest horizontal structura	I member (V Zones only)	N/A .		
d) Attached garage (top of slab)	Thember (v Zones only)	4.0		meters
			x feet	meters
 e) Lowest elevation of machinery or equipment (Describe type of equipment and location) 	n in Comments)	8. 8	X feet	meters
f) Lowest adjacent (finished) grade next to	building (LAG)	<u>3</u> . <u>4</u>	x feet	meters
g) Highest adjacent (finished) grade next to	building (HAG)	<u>4</u> . <u>1</u>	x feet	meters
 h) Lowest adjacent grade at lowest elevation structural support 	on of deck or stairs, including	<u>3</u> . <u>4</u>	X feet	meters
SECTION D - SURV	EYOR, ENGINEER, OR ARC	HITECT CERTIFI	CATION	
This certification is to be signed and sealed by a I certify that the information on this Certificate re- statement may be punishable by fine or imprison	land surveyor, engineer, or arch	nitect authorized by	law to certify elevi	ation information. hat any false
Were latitude and longitude in Section A provide			X Check here	e if attachments.
Certifier's Name	License Number		NA LY	040
LEO MILLS, JR	FL 3513		11/17	
Title REGISTERED SURVEYOR			S SI STE	
Company Name			Pla	Ce 4 1 3 3 3
LEO MILLS & ASSOCIATES, INC.			ESES	11年
Address 620 8th AVENUE WEST				
City	State	ZIP Code	Dit :	2672
PALMETTO	Florida	34221	KLS	9019
Signature ZEVI5EO 8	Date 3-29-19 06-26-2019	Telephone 941-722-2460		
Copy all pages of this Elevation Certificate and all a		cial, (2) insurance a	gent/company, and	(3) building owner.
Comments (including type of equipment and locat				
Site bench mark: North rim sanitary manhole nea square inches of the 10 existing flood openings. SESR-2074 indicates a flow rate of 200 square inc for flow rates provided hereon are based on information. Note: There are 12 total vents. 2 of the vents are	Smart vent model #1540-520 are hes for this model (see attached mation established by others an on interior walls. C2e: Elevation	e installed in each of d). (200 sq. in. x 10 d are not certified a shown is for top of	ppening. ICC-ES R = 2,000 sq. in.) C is accurate by this platform for water	Report # alculations igning surveyor
interior wall. Roof peak elevation = 35.21. Top of	roor trellis elevation = 37.40. Ad	aded "Note:" 8/29/1	19	

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

IMPORTANT: In these spaces, copy the corresponding			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or	Bldg. No.) or P.O. R	oute and Box No.	Policy Number:
6836 PINE STREET		<u> </u>	
City Stat TOWN OF LONGBOAT KEY FLO		P Code	Company NAIC Number
		34228	
SECTION E – BUILDING ELEV FOR ZONE A	O AND ZONE A (W	ON (SURVEY NOT ITHOUT BFE)	REQUIRED)
For Zones AO and A (without BFE), complete Items E1–E9 complete Sections A, B,and C. For Items E1–E4, use naturenter meters.	5. If the Certificate is ral grade, if available	ntended to support a Check the measure	LOMA or LOMR-F request, ment used. In Puerto Rico orny,
E1. Provide elevation information for the following and che the highest adjacent grade (HAG) and the lowest grade (HAG)	eck the appropriate becent grade (LAG).	exes to show whethe	r the elevation is above or below
a) Top of bottom floor (including basement, crawlspace, or enclosure) is		☐ feet ☐ meter	s above or below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is		☐ feet ☐ meter	
E2. For Building Diagrams 6–9 with permanent flood open	ings provided in Sect	ion A Items 8 and/or	9 (see lages 1–2 of Instructions).
the next higher floor (elevation C2.b in the diagrams) of the building is		☐ feet ☐ meter	
E3. Attached garage (top of slab) is		feet meter	s above or below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is		☐ feet ☐ meters	s 🔲 above or 🔲 below the HAG.
E5. Zone AO only: If no flood depth number is available, is floodplain management ordinance?	the top of the botton Unknown. Th	n floor elevated in acc e local official must c	cordance with the community's certify this information in Section G.
SECTION F - PROPERTY OWNER	(OR OWNER'S REF	PESENTATIVE) CE	RTIFICATION
The property owner or owner's authorized representative w community-issued BFE) or Zone AO must sign here. The sign here is the sign here.	ho completes Sections atements in Sections	ns A, B, and E for Zon A, B, and E are corr	ne A (without a FEMA-issued or rect to the best of my knowledge.
Property Owner or Owner's Authorized Representative's Na	ame		
Address	City	Sta	te ZIP Code
Signature	Date	Tel	ephone
Comments			
			7
			725
			*
			Check here if attachments.

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

IMPORTANT: In these spaces, copy the corresponding information from Section		INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route ar 6836 PINE STREET	d Box No. Policy	Number:
City State ZIP Code TOWN OF LONGBOAT KEY FLORIDA 34228	Comp	pany NAIC Number
SECTION G - COMMUNITY INFORMATION	OPTIONAL)	
The local official who is authorized by law or ordinance to administer the community's Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable its used in Items G8–G10. In Puerto Rico only, enter meters.	floodplain manageme m(s) and sign below.	ent ordinance can complete Check the measurement
G1. The information in Section C was taken from other documentation that has been engineer, or architect who is authorized by law to certify elevation information data in the Comments area below.)	een signed and sealen. (Indicate the sourc	ed by a licensed surveyor, e and date of the elevation
G2. A community official completed Section E for a building located in Zone A (wor Zone AO.	ithout a FEMA-issued	d or community-issued BFE)
G3. The following information (Items G4–G10) is provided for community floodpl	in management purp	oses.
G4. Permit Number G5. Date Permit Issued	G6. Date Ce Complian	rtificate of nce/Occupancy Issued
G7. This permit has been issued for: New Construction Substantial Imp	ovement	
G8. Elevation of as-built lowest floor (including basement) of the building:	_ feet _ me	eters Datum
G9. BFE or (in Zone AO) depth of flooding at the building site:	_ feet _ me	ters Datum
G10. Community's design flood elevation:	_ feet me	ters Datum
Local Official's Name Title		
Community Name Telephone		
Signature Date		
Comments (including type of equipment and location, per C2(e), if applicable)		
	X	Check here if attachments.

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB Control Number: 1660-0008

Expiration: 11/30/2018

IMPO	RTANT: In these spaces, copy tl	ne corresponding information f	rom Section A.	FOR INSURANCE COMPANY USE
Buildir 6836 F	ng Street Address (including Apt., PINE STREET	Unit, Suite, and/or Bldg. No.) or F	P.O. Route and Box No.	Policy Number:
City	LONGBOAT KEY	State Florida	Zip Code 34228	Company NAIC Number:

If using the Elevation Certificate to obtain NFIP 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 that will fit on this page, use the Continuation Page.

It is the responsibility of the reviewer (Insurance Agents, Building Officials, etc) of this elevation certificate to analyze all of the data given in conjunction with a site visit to determine the proper Building Diagram Number (Item A7). The building diagram number shown in Item A7 is given as determined by the certificate preparer and should not be used for insurance rating or building compliance purposes unless verified by reviewer.

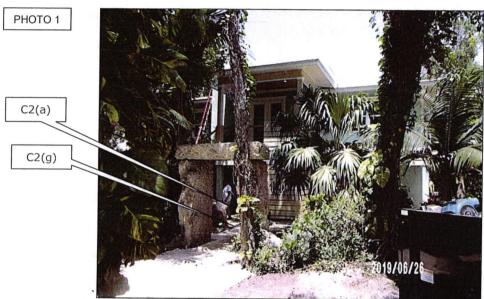
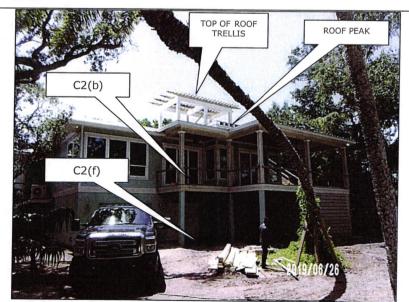


PHOTO ONE CAPTION: FRONT VIEW

PHOTO 2



Leo Mills, Jr. Date 06/26/2019 P.L.S. 3513

JOB#E0319

PHOTO TWO CAPTION: REAR VIEW

BUILDING PHOTOGRAPHS

See Instructions for Item A6. Number: 1660-0008

OMB Control

Expiration: 11/30/2018

IMPO	RTANT: In these spaces, copy the	corresponding information	from Section A.	FOR INSURANCE COMPANY USE
dress	ng Street Ad (including Apt., Unit, Suite, and/or Blo PINE STREET	dg. No.) or P.O. Route and Bo	ox No.	Policy Number:
City	LONGBOAT KEY	State Florida	Zip Code 34226	Company NAIC Number:

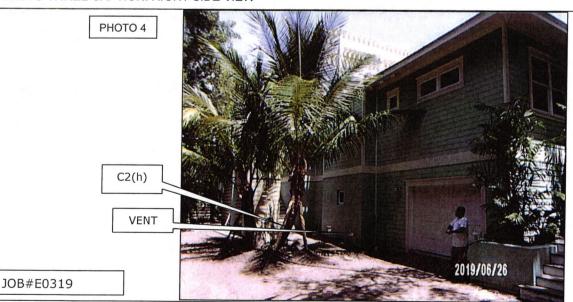
If using the Elevation Certificate to obtain NFIP insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken, "Front View" and "Rear view", and, if required, "Right Side View" and "Left Side View". When applicable, photographs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

It is the responsibility of the reviewer (Insurance Agents, Building Officials, etc) of this elevation certificate to analyze all of the data given in conjunction with a site visit to determine the proper Building Diagram Number (Item A7). The building diagram number shown in Item A7 is given as determined by the certificate preparer and should not be used for insurance rating or building compliance purposes unless verified by reviewer.

РНОТО 3



PHOTO THREE CAPTION: RIGHT SIDE VIEW



Leo Mills, Jr. Date 06/26/2019 P.L.S. 3513

PHOTO FOUR CAPTION: LEFT SIDE VIEW

FEMA Form 086-0-33 (7/15)

Replaces all previous editions.



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ESR-2074

Reissued 02/2015 This report is subject to renewal 02/2017.

ICC-ES Report

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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:

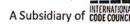
SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514



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ICC-ES Evaluation Report

ESR-2074

Reissued February 2015 Revised May 2016 This report is subject to renewal February 2017.

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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 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 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.
- 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

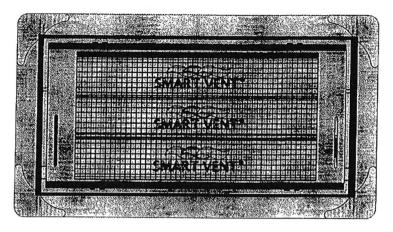


FIGURE 1-SMART VENT: MODEL 1540-510

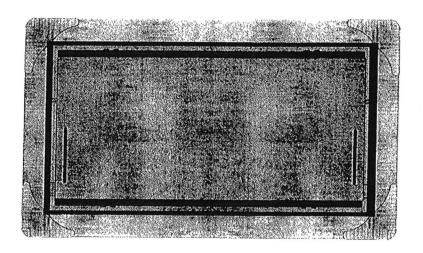


FIGURE 2—SMART VENT MODEL 1540-520

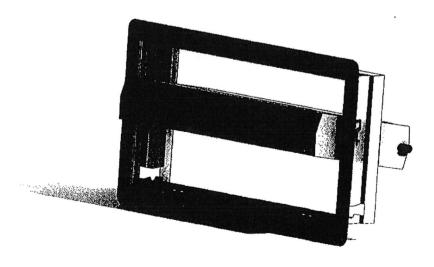


FIGURE 3-SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN





ICC-ES Evaluation Report

ESR-2074 FBC Supplement

Reissued February 2015 Revised March 2016 This report is subject to renewal February 2017.

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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 2015 and revised May 2016.

