U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

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

ELEVATION CERTIFICATEImportant: 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

	SEC	TION A - PROPERTY	Y INFO	RMATION			RANCE COMPANY USE
A1. Building Owner's Name John Woloszyn					Policy Num	Andrew Market Control of the Control	
A2. Building Stree Box No. 202 N Kenyon Ave		cluding Apt., Unit, Suit	te, and/o	or Bldg. No.) or P.O	. Route and	Company N	NAIC Number:
City Margate	City State ZIP Code						
A3. Property Desc Block 413.02, Lot 2		nd Block Numbers, Ta	ax Parce	əl Number, Legal De	escription, etc.)		
A4. Building Use (e.g., Residen	ntial, Non-Residential,	Addition	n, Accessory, etc.)	Residential		
A5. Latitude/Longi	tude: Lat. N	°39°19'49.3"	Long. \	W74°30'25.5"	Horizontal Datur	n: NAD	1927 X NAD 1983
A6. Attach at least	ւ 2 photograp՝	hs of the building if the	e Certifi	cate is being used t	o obtain flood insur	ance.	
A7. Building Diagra	am Number	7					
A8. For a building	with a crawls	pace or enclosure(s):					
a) Square foo	tage of crawl	space or enclosure(s)		1,100 sq ft			
b) Number of	permanent flo	ood openings in the cr	awlspa	ce or enclosure(s) w	vithin 1.0 foot above	adjacent gr	ade 6
c) Total net ar	ea of flood or	penings in A8.b1,2	200 :	sq in			
d) Engineered	l flood openin	ngs? 🗵 Yes 🔲 N	 No				
A9. For a building v	with an attack						
		ned garage.		sq ft			
		ood openings in the at			-+ -h adiopont		•
					ot above aujacem ç	Jrade	0
		penings in A9.b	0	_ sq in			
d) Engineered	flood opening	gs? 🗌 Yes 🔀 N	10				
	SE	CTION B – FLOOD II	NSUR/	NCE RATE MAP	(FIRM) INFORMA	TION	
B1. NFIP Communi	ity Name & Co			B2. County Name	·		B3. State
Margate City 34530	14			Atlantic			New Jersey
B4. Map/Panel Number	B5, Suffix	B6. FIRM Index Date	E	IRM Panel ffective/ evised Date	B8. Flood Zone(s)	(Zor	se Flood Elevation(s) ne AO, use Base
34001C 0434	F	01/30/2015		3/2018	AE	8.0	od Depth)
B10. Indicate the s	ource of the E	Base Flood Elevation ((BFE) d	ata or base flood de	epth entered in Item	B9:	
		Community Determ					:
B11. Indicate eleva	ition datum us	sed for BFE in Item B9	э: 🔲 N	GVD 1929 ⊠ NA		ner/Source:	
B12. Is the building	located in a	Coastal Barrier Resou	urces S	vstem (CBRS) area	or Otherwise Prote	ected Área (C	PA)? ☐ Yes ☒ No
Designation D			CBRS	П ОРА			,,,,, [] 100 [Z] 1.0
-	-	:	J				

ELEVATION CERTIFICATE

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/o 202 N Kenyon Avenue	Policy Number:			
ity State ZIP Code			Company NAIC Number	
Margate Ne	w Jersey C	8402 		
SECTION C - BUILDING EL	EVATION INFORM	IATION (SURVEY R	EQUIRED)	
C1. Building elevations are based on: Constructi *A new Elevation Certificate will be required when or		Building Under Constru	uction*	
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE),		•	/AF AR/A1—A30 AR/AH AR/AO	
Complete Items C2.a–h below according to the buil Benchmark Utilized: Local BM	lding diagram specifi	ed in Item A7. In Puert ım: NAVD 1988	o Rico only, enter meters.	
Indicate elevation datum used for the elevations in i		elow.		
Datum used for building elevations must be the san		 e BFE.		
-			Check the measurement used.	
a) Top of bottom floor (including basement, crawls	oace, or enclosure flo	,	feet meters	
b) Top of the next higher floor		<u>16</u> . <u>0</u>		
c) Bottom of the lowest horizontal structural member	er (V Zones only)	N/A N/A	feet meters	
d) Attached garage (top of slab)		16 1	feet meters	
 e) Lowest elevation of machinery or equipment ser (Describe type of equipment and location in Con 	vicing the building nments)			
f) Lowest adjacent (finished) grade next to building	g (LAG)	<u> </u>	feet	
g) Highest adjacent (finished) grade next to building	g (HAG)	<u> </u>	feet	
 h) Lowest adjacent grade at lowest elevation of dec structural support 	ck or stairs, including	<u> </u>	feet	
SECTION D – SURVEYOR	, ENGINEER, OR A	RCHITECT CERTIFI	CATION	
This certification is to be signed and sealed by a land su I certify that the information on this Certificate represents statement may be punishable by fine or imprisonment ur	s mv best efforts to in	terpret the data availa	law to certify elevation information. ble. I understand that any false	
Were latitude and longitude in Section A provided by a li-	censed land surveyo	r? ⊠Yes □No	☑ Check here if attachments.	
Certifier's Name James R. Boney, PLS	License Number 31264	N. T. S.		
Title				
Professional Land Surveyor				
Company Name James R. Boney & Associates, LLC	Place Seal			
Address 13 Stone Mill Court			Here	
City Egg Harbor Twp	State New Jersey	ZIP Code 08234		
Signature Ammy	Date 01/10/2020	Telephone (609) 788-8013		
Copy all pages of this Elevation Certificate and all attachme	nts for (1) community	official, (2) insurance a	agent/company, and (3) building owner.	
Comments (including type of equipment and location, per C2(e), if applicable) 2.5 Story frame dwelling on full-story foundation walls. The ground floor is primarily for parking and storage. All mechanicals are above the elevated FF level. The six (6) openings are equipped with Smart Vents Model 1540-510.				

ELEVATION CERTIFICATE

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/ 202 N Kenyon Avenue	or Bldg. No.) or P.O	Route and Box No.	Policy Number:				
	ate ew Jersey	ZIP Code 08402	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 ac a) Top of bottom floor (including basement,			The elevation is above of pelow				
crawlspace, or enclosure) is b) Top of bottom floor (including basement,		feet meter	rs above or below the HAG.				
crawlspace, or enclosure) is E2. For Building Diagrams 6–9 with permanent flood ope	anings provided in S	feet meter	tunned tunned				
the next higher floor (elevation C2.b in the diagrams) of the building is							
E3. Attached garage (top of slab) is			rs above or below the HAG.				
E4. Top of platform of machinery and/or equipment servicing the building is			rs 🔲 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						
SECTION F - PROPERTY OWNE	R (OR OWNER'S I	REPRESENTATIVE) CE	ERTIFICATION				
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	who completes Sec statements in Secti	ctions A, B, and E for Zo ons A, B, and E are con	ne A (without a FEMA-issued or rect to the best of my knowledge.				
Property Owner or Owner's Authorized Representative's	Name						
Address	City	Sta	ate ZIP Code				
Signature	Date	Te	lephone				
Comments							
			☐ Check here if attachments.				

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresp	FOR INSURANCE COMPANY USE					
Building Street Address (including Apt., Unit, Suite 202 N Kenyon Avenue	Policy Number:					
City Margate	State ZIP Cod New Jersey 08402	е	Company NAIC Number			
SECTION	G - COMMUNITY INFORMATION	(OPTIONAL)				
Sections A, B, C (or E), and G of this Elevation Ce	The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.					
G1. The information in Section C was taken engineer, or architect who is authorized data in the Comments area below.)	from other documentation that has by law to certify elevation information	been signed ar on. (Indicate the	nd sealed by a licensed surveyor, e source and date of the elevation			
G2. A community official completed Section or Zone AO.	E for a building located in Zone A (without a FEMA	A-issued or community-issued BFE)			
G3. The following information (Items G4–G1	0) is provided for community floodp	lain manageme	ent purposes.			
G4. Permit Number G	5. Date Permit Issued		ate Certificate of ompliance/Occupancy Issued			
G7. This permit has been issued for:	ew Construction Substantial Implementation	provement				
G8. Elevation of as-built lowest floor (including ba of the building:	asement)	feet	meters Datum			
G9. BFE or (in Zone AO) depth of flooding at the	building site:	feet	meters Datum			
G10. Community's design flood elevation:		feet	meters Datum			
Local Official's Name	Title	CF	n			
Community Name	Telephone	609	7-822-1974			
Signature 1C	Date		1/23/2020			
Comments (including type of equipment and location	on, per C2(e), if applicable)		// // //			
			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, cop	FOR INSURANCE COMPANY USE		
Building Street Address (including A	Policy Number:		
202 N Kenyon Avenue			
City	State	ZIP Code	Company NAIC Number
Margate	New Jersey	08402	

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

Photo One Caption Front 01/07/2020



Photo Two

Photo Two Caption Side 01/07/2020

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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

IMPORTANT: In these spaces, copy th	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt.,	Policy Number:		
202 N Kenyon Avenue			
City	State	ZIP Code	Company NAIC Number
Margate	New Jersey	08402	

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 One Caption Smart Vent Model 1540-510 (one of six) 01/07/2020

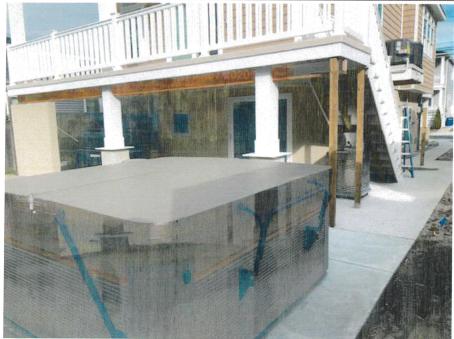
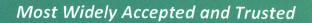


Photo Two Caption Rear 01/07/2020





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 #1540-520; #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 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

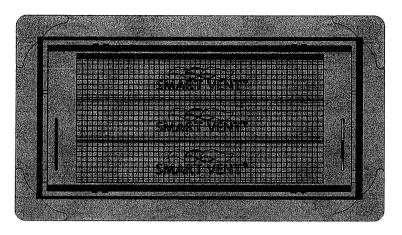


FIGURE 1-SMART VENT: MODEL 1540-510

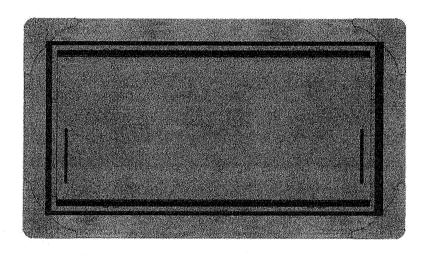


FIGURE 2—SMART VENT MODEL 1540-520

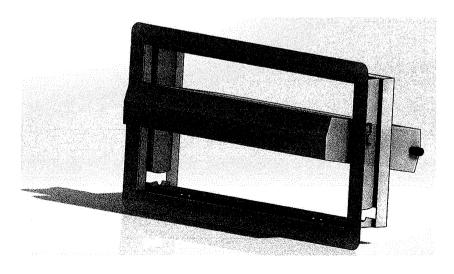


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN



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; #1540-570; #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 helow

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.





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.