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.

		TION A - PROPERTY	INFOR	RMATION		FOR INSUI	RANCE COMPANY USE
A1. Building Own GARLON AND KA		BERTON				Policy Num	ber;
A2. Building Stree Box No. 9591 SOUTH BAY		cluding Apt., Unit, Suite RIVE	e, and/o	or Bidg. No.) or P.O	. Route and	Company N	IAIC Number:
City GULFPORT		10-10-10-10-10-10-10-10-10-10-10-10-10-1		State Mississippi		ZIP Code 39503	
A3. Property Desc PARCEL NUMBER	cription (Lot a R 0909I-02-0	nd Block Numbers, Ta 09.001 LOT 9, BAYO	x Parce	el Number, Legal De ID SUBDIVISION	escription, etc.)		
A4. Building Use ((e.g., Resider	ntiel, Non-Residential, A	\dditior	n, Accessory, etc.)	RESIDENTIAL		
A5. Latitude/Long	itude: Lat 3	0 25'25.0"	Long	089 02'23.1"	Horizontal Datun	n: NAD '	1927 🔯 NAD 1983
A6. Attach at leas	t 2 photograp	hs of the building if the	Certific	cate is being used t			Monocutanit ⁴
A7. Building Diagr	am Number	6					
A8. For a building	with a crawls	pace or enclosure(s):					
a) Square foo	tage of crawl	space or enclosure(s)		154 sq ft			
b) Number of	permanent fl	ood openings in the cra	wispac	e or enclosure(s) w	ithin 1.0 foot above	adjacent gr	ade 2
c) Total net ar	ea of flood o	penings in A8,b 40	0	sq in			hard and desired and association and analysis replaced as an incident and as a second
d) Engineered	flood openin	gs? ⊠ Yes □ N)				
A9. For a building	with an attach	ned garage:					
a) Square foo	tage of attach	ed garage 0		sq ft			
		ood openings in the atta			ot above adiacent o	ırade	0 .
		•	0	sq in	ar and a sulface it is		
		gs? ∐Yes ⊠ No				•	
	SE	CTION B - FLOOD IN	ISURA	NCE RATE MAP	(FIRM) INFORMA	TION	
B1. NFIP Communi				B2. County Name		11011	B3. State
CITY OF GULPOR	T, 285253			HARRISON			Mississippi
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Ef	RM Panel fective/ evised Date	B8. Flood Zone(s)	(Zor	e Flood Elevation(s) ne AO, use Base
28047C0266	G	12/21/2017	06/16		AE	15	d Depth)
		Base Flood Elevation (E			pth entered in Item	B9:	
[] i lo riville	N LIVINI	Community Determi	nea [Otner/Source:		······································	
B11. Indicate eleva	tion datum us	sed for BFE in Item B9:	Пи	GVD 1929 ⊠ NA	VD 1988 🔲 Oth	er/Source:_	
B12. Is the building	located in a	Coastal Barrier Resour	ces Sy	stem (CBRS) area	or Otherwise Protec	cted Area (O	PA)? Yes X No
Designation D				OPA			
	· · · · · · · · · · · · · · · · · · ·				····		

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 9591 SOUTH BAYOU BEND DRIVE	r Bldg. No.) or P.O. Rou	te and Box No.	Policy Number:
City Sta GULFPORT Mis	nte ZIP ssissippi 3950	Code 03	Company NAIC Number
SECTION C - BUILDING EI	EVATION INFORMAT	ION (SURVEY RE	EQUIRED)
	on Drawings* Bull construction of the buildi VE, V1–V30, V (with B Iding diagram specified i Vertical Datum: items a) through h) below Source: ne as that used for the B pace, or enclosure floor; er (V Zones only) revicing the building meents)	ding Under Construing is complete. FE), AR, AR/A, AR/ in Item A7. In Puert NAVD88, GEOID 2 w.	iction* Finished Construction AE, AR/A1-A30, AR/AH, AR/AO. o Rico only, enter meters.
g) Highest adjacent (finished) grade next to buildir	-, ,	7.2	∑ feet ☐ meters
b) Lowest adjacent grade at lowest elevation of destructural support		5. 7	∑ feet ☐ meters
SECTION D - SURVEYOR	, ENGINEER, OR ARC	CHITECT CERTIF	ICATION
This certification is to be signed and sealed by a land su I certify that the information on this Certificate represent statement may be punishable by fine or imprisonment u Were latitude and longitude in Section A provided by a	's my best efforts to inter Inder 18 U.S. Code, Sec	pret the data availation 1001.	y law to certify elevation information. able. I understand that any false Check here if attachments,
Certifier's Name	License Number		
CLIFFORD A. CROSBY, P.L.S. Title OWNER Company Name CROSBY SURVEYING Address 716 LIVE OAK DRIVE	MS 2539	710.0.1	Pletse Hefe
City BILOXI	State Mississippi	ZIP Code 39532	
Signature	Date 12/04/2019	Telephone (228) 234-1649	
Copy all pages of this Elevation Certificate and all attachm		fficial, (2) insurance	agent/company, and (3) building owner
Comments (including type of equipment and location, processed in the second control of the AIR LOWEST MACHINERY IS THE BOTTOM OF THE AIR	er C2(e), if applicable) CONDITIONING UNITS	ON RAISED PLAT	IFORM.

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspon	ding information	from Section A.	FOR INSURA	ANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, a 9591 SOUTH BAYOU BEND DRIVE				++
City GULFPORT	State Mississippi	ZIP Code 39503	Company NA	IC Number
SECTION E - BUILDING E	LEVATION INFO	ORMATION (SURVEY I	NOT REQUIRED)	·
For Zones AO and A (without BFE), complete Items complete Sections A, B, and C. For Items E1–E4, use enter meters. E1. Provide elevation information for the following at the highest adjacent grade (HAG) and the lowes a) Top of bottom floor (including basement, crawlspace, or enclosure) is b) Top of bottom floor (including basement, crawlspace, or enclosure) is E2. For Building Diagrams 6–9 with permanent floor the next higher floor (elevation C2.b in the diagrams) of the building is E3. Attached garage (top of slab) is E4. Top of platform of machinery and/or equipment servicing the building is E5. Zone AO only: If no flood depth number is availated floodplain management ordinance? SECTION F – PROPERTY Of SECTION F – PROPERTY Of SECTION F – PROPERTY Of Section In the servicing the s	E1-E5, If the Certic natural grade, if and check the appropriate adjacent grade (display a provided the second of the second o	ficate is intended to suppayailable. Check the mean opriate boxes to show whaten and the feet for a feet feet from feet feet from from feet from from feet from from from from from from from from	surement used. In hether the elevation heters above heters house certify this info	is above or below or below the HAG. or below the LAG. 1–2 of Instructions), or below the HAG. or below the HAG. or below the HAG. the community's rmation in Section G.
The property owner or owner's authorized represents community-issued BFE) or Zone AO must sign here. Property Owner or Owner's Authorized Representation	The statements in	es Sections A, B, and E to Sections A, B, and E ar	or Zone A (without e correct to the bes	a FEMA-issued or st of my knowledge.
Property Owner of Owner's Additionzed Representati	AC 2 1401116			
Address		City	State	ZIP Code
Signature		Date	Telephone	
Comments	ggangganggangganggangganggangganggangga			
·				
	•			

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corr	esponding information from Section A.	FOR II	NSURANCE COMPANY USE
Building Street Address (including Apt., Unit, St 9591 SOUTH BAYOU BEND DRIVE	uite, and/or Bldg. No.) or P.O. Route and Bo	x No. Policy	Number:
City GULFPORT	State ZIP Code Mississippi 39503	Compa	any NAIC Number
SECTIO	ON G - COMMUNITY INFORMATION (OPT	ONAL)	
The local official who is authorized by law or or Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, en	Certificate, Complete the applicable item(s)	plain manageme and sign below.	nt ordinance can complete Check the measurement
G1. The information in Section C was tak engineer, or architect who is authoriz data in the Comments area below.)	en from other documentation that has been ed by law to certify elevation Information. (In	signed and seale dicate the source	d by a licensed surveyor, and date of the elevation
G2. A community official completed Section Zone AO.	on E for a building located in Zone A (withou	t a FEMA-issued	or community-issued BFE)
G3. The following information (Items G4-	G10) is provided for community floodplain n	anagement purp	oses,
G4. Permit Number	G5. Date Permit Issued	G6. Date Cèr Compliar	tificate of ice/Occupancy Issued
G7. This permit has been issued for:	New Construction Substantial Improve	ment	A STATE OF THE STA
G8. Elevation of as-built lowest floor (including of the building:	pasement)	☐ feet ☐ me	ters Datum
G9. BFE or (in Zone AO) depth of flooding at t	he building site:	☐ feet ☐ me	ters Datum
G10. Community's design flood elevation:	- Commission of the contract o	☐ feet ☐ met	ters Datum
Local Official's Name	Title	-	
Community Name	Telephone	ng Vindende Vinnenden ing menggapan anakangnyy anaka manakan	
Signature	Date	(1998) (1998) (1998) (1998) (1998) (1998) (1998) (1998) (1998) (1998) (1998) (1998) (1998) (1998) (1998) (1998)	
Comments (including type of equipment and loc	ation, per C2(e), if applicable)	······································	
,			
		د	
	•		Check here if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

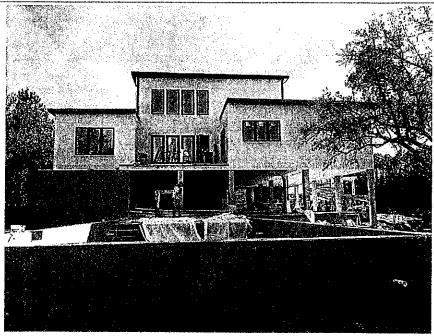
OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, co	py the corresponding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including 9591 SOUTH BAYOU BEND DRIV	Apt., Unit, Suite, and/or Bldg. No.) or E	P.O. Route and Box No.	Policy Number:
City	State	ZIP Code	Company NAIC Number
GULFPORT	Mississippi	39503	

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 Caption FRONT VIEW 12/03/2019



Pholo Two

Photo Two Caption REAR VIEW 12/03/2019

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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

IMPORTANT: In these spaces, copy the c	orresponding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Uni 9591 SOUTH BAYOU BEND DRIVE	t, Suite, and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:
City GULFPORT	State Mississippi	ZIP Code 39503	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.

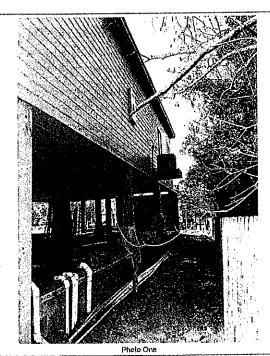


Photo One Caption RIGHT SIDE VIEW 12/03/2019

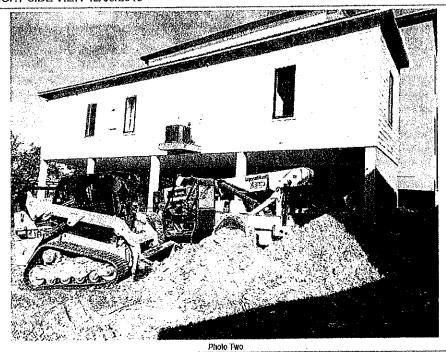


Photo Two Caption LEFT SIDE VIEW 12/03/2019



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Reissued 02/2019 This report is subject to renewal 02/2021.

DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

9591 S. Bayou Bend DR 2 EA.

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

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 FLOOD VENT SEALING KIT #1540-526



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



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ESR-2074

Reissued February 2019

This report is subject to renewal February 2021.

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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:

SMART VENT PRODUCTS, INC.

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 FLOOD VENT SEALING KIT #1540-526

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015, 2012, 2009 and 2006 International Building Code[®] (IBC)
- 2018, 2015, 2012, 2009 and 2006 International Residential Code® (IRC)
- 2018 International Energy Conservation Code® (IECC)
- 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.

3.4 Flood Vent Sealing Kit:

The Flood Vent Sealing Kit Model #1540-526 is used with SmartVENT® Model #1540-520. It is a Homasote 440 Sound Barrier® (ESR-1374) insert with 21 – 2-inch-by-2-inch (51 mm x 51 mm) squares cut in it, See Figure 4.

4.0 DESIGN AND INSTALLATION

4.1 SmartVENT® and FloodVENT®:

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.

4.2 Flood Vent Sealing Kit

The Flood Vent Sealing Kit Model 1540-526 is used in conjunction with FloodVENT® Model #1540-520. When installed and tested in accordance with ASTM E283, the FV and Flood Vent Sealing Kit assembly have an air leakage rate of less than 0.2 cubic feet per minute per lineal foot (18.56 l/min per lineal meter) at a pressure differential of 1 pound per square foot (50 Pa) based on 12.58 lineal feet (3.8 lineal meters) contained by the Flood Vent Sealing Kit.

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

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015 (editorially revised October 2017).
- 6.2 Test report on air infiltration in accordance with ASTM E283.

7.0 IDENTIFICATION

- 7.1 The Smart VENT® models and the Flood Vent Sealing Kit 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).
- 7.2 The report holder's contact information is the following:

SMART VENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (877) 441-8368 www.smartvent.com info@smartvent.com

TABLE 1-MODEL SIZES

MODEL NUMBER	MODEL SIZE (in)	COVERAGE (sq. ft.)
 		
 		200
		200
		200
		200
 		200
		200
		400
	1540-520 1540-510 1540-524 1540-514 1540-570 1540-574 1540-511	1540-520

1 square foot = m

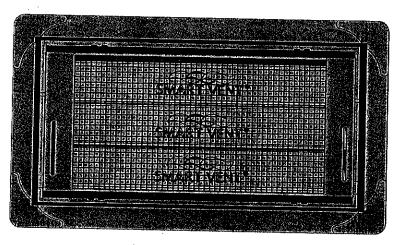


FIGURE 1—SMART VENT: MODEL 1540-510

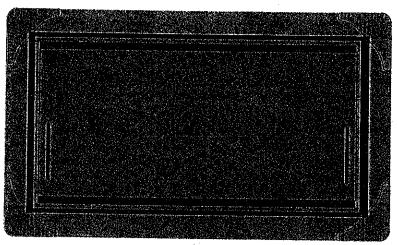


FIGURE 2—SMART VENT MODEL 1540-520

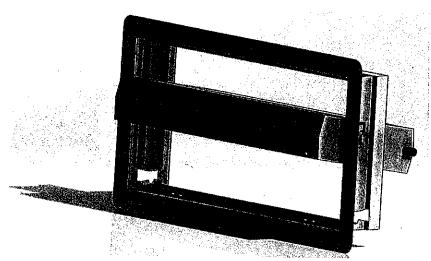


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

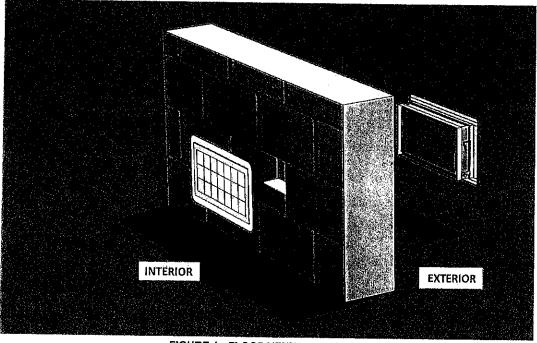


FIGURE 4—FLOOD VENT SEALING KIT



ESR-2074 CBC and CRC Supplement

Reissued February 2019 This report is subject to renewal February 2021.

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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:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

SMART VENT[®] AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-524; #1540-514 FLOOD VENT SEALING KIT #1540-526

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 2019.





ESR-2074 FBC Supplement

Reissued February 2019 This report is subject to renewal February 2021.

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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:

SMART VENT PRODUCTS, INC.

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
FLOOD VENT SEALING KIT #1540-526

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 Vert[®] 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 2019.



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