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

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ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.



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11 D """ O			FOR INSURANCE COMPANY US		
Grant K. Chappel	er's Name				Policy Number:
A2. Building Stree Box No. 159 Cabana Rd	et Address (ind	cluding Apt., Unit, Suit	e, and/or Bldg. No.) or P.O.	Route and	Company NAIC Number:
City Myrtle Beach	-		State South Carolina		ZIP Code 29572
A3. Property Des of 159 Briarcliffe	cription (Lot an Acres PIN# 3	nd Block Numbers, Ta 91-10-01-0012	ax Parcel Number, Legal Des	scription, etc.)	
4. Building Use	(e.g., Residen	tial, Non-Residential,	Addition, Accessory, etc.)	Residential	
5. Latitude/Long	gitude: Lat. 33	3-47-18.36	Long. 78-44-35.20	Horizontal Datum	: NAD 1927 X NAD 1983
6. Attach at leas	st 2 photograp	hs of the building if the	e Certificate is being used to	obtain flood insura	nce.
A8. For a building	with a crawls	pace or enclosure(s):			
a) Square fo	otage of crawl	space or enclosure(s)	1,787 sq ft		
b) Number o	f permanent flo	ood openings in the cr	rawlspace or enclosure(s) wi	thin 1.0 foot above	adjacent grade7
c) Total net a	area of flood op	penings in A8.b 201	1,600 sq in		
d) Engineere	ed flood openin	ngs? X Yes	No V		
d) Engineere	ed flood openin	ngs? 🛛 Yes 🗌 N	No V		
 d) Engineere A9. For a building a) Square for 	d flood openin with an attack	ngs? X Yes N ned garage:	No v		
 d) Engineere A9. For a building a) Square fo 	ed flood opening with an attack otage of attack	ngs? X Yes N ned garage: ned garage <u>// A</u>	sq ft		
 d) Engineere A9. For a building a) Square fo b) Number o 	ed flood openin with an attach otage of attach f permanent flo	ngs? X Yes N ned garage: ned garage <u>//A</u> ood openings in the at	sq ft ttached garage within 1.0 for	ot above adjacent g	rade <u>N/A</u>
 d) Engineere A9. For a building a) Square fo b) Number o c) Total net a 	ed flood opening with an attack otage of attack f permanent flo area of flood op	hed garage: hed garage $\sqrt{/A}$ hed garage $\sqrt{/A}$ hood openings in the at penings in A9.b \sim	sq ft ttached garage within 1.0 foo	ot above adjacent g	rade <u>N/A</u>
 d) Engineere A9. For a building a) Square fo b) Number o c) Total net a d) Engineere 	ed flood opening with an attack otage of attack of permanent flo area of flood opening ed flood opening	ngs? X Yes N ned garage: ned garage <u>//A</u> bood openings in the at penings in A9.b Mgs? Yes X M	sq ft ttached garage within 1.0 foc	ot above adjacent g	rade <u>N/k</u>
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 d) Engineere A9. For a building a) Square fo b) Number o c) Total net a d) Engineere B1. NFIP Commu Briarcliffe Acres, " 	ed flood openin with an attack otage of attack f permanent flo area of flood op ed flood openin SE unity Name & C Town of 45	Ags? X Yes N hed garage: hed garage <u>//A</u> bood openings in the at penings in A9.b Ags? Yes N ECTION B – FLOOD I Community Number 50232	sq ft ttached garage within 1.0 foc A sq in No INSURANCE RATE MAP B2. County Name Horry	ot above adjacent g	TION B3. State South Carolina
 d) Engineere A9. For a building a) Square fo b) Number o c) Total net a d) Engineere B1. NFIP Communistration of the second	ed flood openin with an attack otage of attack f permanent flo area of flood op ed flood openin SE nity Name & C Town of 45 B5. Suffix	Ags? X Yes N hed garage: hed garage //A bood openings in the at penings in A9.b Ags? Yes N CTION B – FLOOD I Community Number 50232 B6. FIRM Index Date	sq ft ttached garage within 1.0 foo A sq in No INSURANCE RATE MAP B2. County Name Horry B7. FIRM Panel Effective/	ot above adjacent g (FIRM) INFORMA B8. Flood Zone(s)	TION B3. State South Carolina B9. Base Flood Elevation(s) (Zone AO, use Base
 d) Engineere A9. For a building a) Square fo b) Number o c) Total net a d) Engineere 31. NFIP Commu 31. NFIP Commu 31. NFIP Acres, T 4. Map/Panel Number 5051C 0586	ed flood openin with an attack otage of attack f permanent flo area of flood op ed flood openin SE nity Name & C Town of 45 B5. Suffix H	Ags? X Yes N hed garage: hed garageA bood openings in the at penings in A9.bA hgs? Yes X M ECTION B - FLOOD I Community Number 50232 B6. FIRM Index Date 09/17/2003	sq ft ttached garage within 1.0 foo A sq in No INSURANCE RATE MAP B2. County Name Horry B7. FIRM Panel Effective/ Revised Date 08/23/1999	FIRM) INFORMA B8. Flood Zone(s)	TION B3. State South Carolina B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 15
 d) Engineere A9. For a building a) Square fo b) Number o c) Total net a d) Engineere 31. NFIP Commu 3	ed flood openin with an attack otage of attack f permanent flo area of flood op ed flood openin SE nity Name & C Town of 45 B5. Suffix H source of the	Ags? X Yes N Aned garage: Aned garage A bood openings in the at penings in A9.b Ags? Yes N ECTION B – FLOOD I Community Number 50232 B6. FIRM Index Date 09/17/2003 Base Flood Elevation	sq ft ttached garage within 1.0 foo A sq in No INSURANCE RATE MAP B2. County Name Horry B7. FIRM Panel Effective/ Revised Date 08/23/1999 (BFE) data or base flood de	FIRM) INFORMA B8. Flood Zone(s)	TION B3. State South Carolina B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 15 B9:
 d) Engineere A9. For a building a) Square fo b) Number o c) Total net a d) Engineere 31. NFIP Commu 32. NFIP Commu 33. NFIP Commu 34. Nap/Panel 35. NFIP Commu 36. NFIP Comm 36. NFIP Comm 36.	ed flood opening with an attack otage of attack of permanent flo area of flood op ed flood opening set flood opening B5. Suffix H B5. Suffix H source of the ile X FIRM	Ags? X Yes N Aned garage: Aned garageA bood openings in the at penings in A9.bA Ags? Yes X M COMMUNITY NUMBER 50232 B6. FIRM Index Date 09/17/2003 Base Flood Elevation Community Detern	sq ft ttached garage within 1.0 for A sq in No INSURANCE RATE MAP B2. County Name Horry B7. FIRM Panel Effective/ Revised Date 08/23/1999 (BFE) data or base flood de mined _ Other/Source: _	FIRM) INFORMA B8. Flood Zone(s) AE pth entered in Item	TION B3. State South Carolina B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 15 B9:
 d) Engineere A9. For a building a) Square fo b) Number o c) Total net a d) Engineere 31. NFIP Commu 31. Indicate the 31. Indicate elevel	ad flood opening with an attack otage of attack of permanent flo area of flood op ad flood opening B5. Suffix H B5. Suffix H source of the ile X FIRM	Ags? X Yes A hed garage: hed garageA bood openings in the at penings in A9.bA hgs? Yes X M CTION B - FLOOD I Community Number 50232 B6. FIRM Index Date 09/17/2003 Base Flood Elevation Community Detern used for BFE in Item B	sq ft ttached garage within 1.0 for A sq in No INSURANCE RATE MAP B2. County Name Horry B7. FIRM Panel Effective/ Revised Date 08/23/1999 (BFE) data or base flood de mined Other/Source:	FIRM) INFORMA B8. Flood Zone(s) AE pth entered in Item	TION B3. State South Carolina B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 15 B9: ner/Source:
 d) Engineere A9. For a building a) Square fo b) Number o c) Total net a d) Engineere 31. NFIP Commu 32. NFIP Commu 33. NFIP Commu 34. Map/Panel 35. NFIP Commu 36. NFIP Commu 36	ad flood opening with an attack otage of attack of permanent flo area of flood opening ad flood opening B5. Suffix H B5. Suffix H source of the ile X FIRM vation datum u	Ags? X Yes A Aned garage: Aned garage A bood openings in the at penings in A9.b Ags? Yes I CTION B – FLOOD I Community Number 50232 B6. FIRM Index Date 09/17/2003 Base Flood Elevation Community Detern ased for BFE in Item B Coastal Barrier Reso	sq ft ttached garage within 1.0 for A sq in No INSURANCE RATE MAP B2. County Name Horry B7. FIRM Panel Effective/ Revised Date 08/23/1999 (BFE) data or base flood de mined Other/Source: 99: X NGVD 1929 NA	Triangle FIRM) INFORMA B8. Flood Zone(s) AE pth entered in Item VD 1988 □ Otherwise Prote	TION B3. State South Carolina B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 15 B9: ner/Source:

PORTANT: In these spaces, copy the	FOR INSURANCE COMPANY U			
Building Street Address (including Apt., U 59 Cabana Rd	Init, Suite, and/or Bldg. No.) or P.O. Rout	e and Box No.	Policy Number:	
City Ayrtle Beach 🖌	State ZIP C South Carolina 2957	Code	Company NAIC N	lumber
SECTION C	- BUILDING ELEVATION INFORMAT	ION (SURVEY R	EQUIRED)	
C1. Building elevations are based on: *A new Elevation Certificate will be C2. Elevations – Zones A1–A30, AE, A Complete Items C2.a–h below acc	Construction Drawings* Build required when construction of the buildin H, A (with BFE), VE, V1–V30, V (with BF ording to the building diagram specified in	ling Under Constr ng is complete. E), AR, AR/A, AR n Item A7. In Puer	uction* Finish VAE, AR/A1–A30, A to Rico only, enter	ned Construction AR/AH, AR/AO. meters.
Indicate elevation datum used for t	he elevations in items a) through h) below 1988 Other/Source:	v.		
Datum used for building elevations	must be the same as that used for the B	FE.	Check the me	asurement used
 Top of bottom floor (including b) 	asement, crawlspace, or enclosure floor)	11, 2	X feet	meters
b) Top of the next higher floor		22.6	X feet	meters
Bottom of the lowest horizontal	structural member (V Zones only)	N/A	X feet	meters
✓d) Attached garage (top of slab)		11.2	X feet	meters
 Lowest elevation of machinery (Describe type of equipment and 	or equipment servicing the building discussion discussion in Comments)		X feet	
1) Lowest adjacent (finished) grad	le next to building (LAG)	7.8	x feet	meters
g) Highest adjacent (finished) grad	de next to building (HAG)	8, 5	x feet	meters
 b) Lowest adjacent grade at lowes structural support 	st elevation of deck or stairs, including	<u> </u>	x feet	meters
SECTION D	- SURVEYOR, ENGINEER, OR ARC	HITECT CERTIF	ICATION	Same and Sta
This certification is to be signed and se I certify that the information on this Cert statement may be punishable by fine of Were latitude and longitude in Section A	aled by a land surveyor, engineer, or arcl tificate represents my best efforts to inter r imprisonment under 18 U.S. Code, Sec A provided by a licensed land surveyor?	hitect authorized b pret the data avail tion 1001. Yes No	y law to certify elev able. I understand Check her	ation information that any false e if attachments
Certifier's Name	License Number		-	Contra top
Barry W. Suggs	25438	The refer	110111000	are sterility a
Title PLS			and the second	tions
Company Name			- Rapl	Re E
Crescent Moon Land Surveying, Inc.			S	eal
Address 3099 Ino Dr.			557	18/18
City Loris	State South Carolina	ZIP Code 29569	""""""""""""""""""""""""""""""""""""""	. Month
Signature REDE	Date 05/18/2018	Telephone (843) 716-6021		
Copy all pages of this Elevation Certificat	e and all attachments for (1) community of	ficial, (2) insurance	agent/company, an	d (3) building own
Comments (including type of equipmen C2(e); A/C units located at the rear of the A8(d); Smart Vent Model 1540-570	t and location, per C2(e), if applicable) ne building.			

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LEVATION CERTIFICATI			E	Expiration Date: November 30, 2018		
MPORTANT: In these spaces, cop	by the corresponding information t	from Section A.	-1 - 1 - 1 - 1	FOR INSURANCE COMPANY US		
Building Street Address (including A 159 Cabana Rd	pt., Unit, Suite, and/or Bldg. No.) or I	P.O. Route and Bo	ox No.	Policy Number		
City	State	ZIP Code	1	Company NAIC	Number	
Myrtle Beach	South Carolina	29572	1 March			
SECTION	E – BUILDING ELEVATION INFO FOR ZONE AO AND ZONI	RMATION (SUR) E A (WITHOUT E	VEY NOT F BFE)	REQUIRED)		
For Zones AO and A (without BFE), complete Sections A, B,and C. For I enter meters.	complete Items E1–E5. If the Certific Items E1–E4, use natural grade, if av	cate is intended to vailable. Check the	support a l measurem	OMA or LOMF	R-F request, lerto Rico only,	
E1. Provide elevation information for the highest adjacent grade (HA	or the following and check the approp G) and the lowest adjacent grade (L	oriate boxes to sho AG).	ow whether	the elevation is	above or below	
 a) Top of bottom floor (includin crawlspace, or enclosure) is 	ng basement, s	feet	meters	above or	below the HAG.	
b) Top of bottom floor (includin crawlspace, or enclosure) is	ng basement, s	feet	meters	above or	below the LAG.	
E2. For Building Diagrams 6-9 with	permanent flood openings provided	in Section A Item	s 8 and/or 9	(see pages 1-	2 of Instructions),	
the next higher floor (elevation the diagrams) of the building is	C2.b in	feet	meters	above or	below the HAG.	
E3. Attached garage (top of slab) is		[feet	meters	above or	below the HAG.	
E4. Top of platform of machinery a	nd/or equipment	□ feat	- matam			
					o community's	
		0 A D		A fuithaut a	FEMA issued or	
The property owner or owner's auth community-issued BFE) or Zone AC Property Owner or Owner's Authori:	orized representative who completes D must sign here. The statements in s zed Representative's Name	Sections A, B, ar Sections A, B, and	nd E for Zon E are corre	e A (without a ect to the best o	FEMA-issued or of my knowledge.	
The property owner or owner's auth community-issued BFE) or Zone AC Property Owner or Owner's Authori: Address	orized representative who completes D must sign here. The statements in s zed Representative's Name	Sections A, B, and Sections A, B, and City	nd E for Zor I E are corre Sta	e A (without a ect to the best o te	FEMA-issued or of my knowledge. ZIP Code	
The property owner or owner's auth community-issued BFE) or Zone AC Property Owner or Owner's Authori: Address Signature	orized representative who completes o must sign here. The statements in s zed Representative's Name	Sections A, B, and Sections A, B, and City	nd E for Zor I E are corre Sta Tele	te A (without a ect to the best of the bes	FEMA-issued or of my knowledge. ZIP Code	
The property owner or owner's auth community-issued BFE) or Zone AC Property Owner or Owner's Authori: Address Signature	orized representative who completes o must sign here. The statements in s zed Representative's Name	Sections A, B, and Sections A, B, and Dity	nd E for Zon I E are corre Sta Tele	te A (without a ect to the best of the bes	FEMA-issued or of my knowledge. ZIP Code	
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The property owner or owner's auth community-issued BFE) or Zone AC Property Owner or Owner's Authori: Address Signature Comments	orized representative who completes o must sign here. The statements in s zed Representative's Name	Sections A, B, and Sections A, B, and City Date	nd E for Zor E are corre Sta Tele	te A (without a ect to the best of the bes	FEMA-issued or of my knowledge. ZIP Code	
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The property owner or owner's auth community-issued BFE) or Zone AC Property Owner or Owner's Authoriz Address Signature Comments	orized representative who completes 0 must sign here. The statements in s zed Representative's Name	Sections A, B, and Sections A, B, and City Date	te are corre	te A (without a ect to the best of the bes	EFEMA-issued or of my knowledge. ZIP Code	
The property owner or owner's auth community-issued BFE) or Zone AC Property Owner or Owner's Authori: Address Signature Comments	orized representative who completes o must sign here. The statements in s zed Representative's Name	Sections A, B, and Sections A, B, and Dity Date	te are corre	te A (without a ect to the best of the bes	EFEMA-issued or of my knowledge. ZIP Code	
The property owner or owner's auth community-issued BFE) or Zone AC Property Owner or Owner's Authoriz Address Signature Comments	orized representative who completes D must sign here. The statements in s zed Representative's Name	Sections A, B, and Sections A, B, and Date	te are corre	te A (without a ect to the best of the bes	EFEMA-issued or of my knowledge. ZIP Code	

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MPO Build 159 0				
Build	RTANT: In these spaces, copy the	FOR INSURANCE COMPANY USE		
	ing Street Address (including Apt., U Cabana Rd	nit, Suite, and/or Bldg. No.) or P.O. Route and Box N	lo. Policy Number:	
City		State ZIP Code	Company NAIC Number	
Myrtl	e Beach	South Carolina 29572		
199	SI	ECTION G - COMMUNITY INFORMATION (OPTIO	NAL)	
The Sect used	local official who is authorized by law ions A, B, C (or E), and G of this Elev I in Items G8–G10. In Puerto Rico on	or ordinance to administer the community's floodpla vation Certificate. Complete the applicable item(s) ar lly, enter meters.	in management ordinance can complete ad sign below. Check the measurement	
G1.	The information in Section C wa engineer, or architect who is au data in the Comments area belo	as taken from other documentation that has been sig thorized by law to certify elevation information. (Indic ow.)	ned and sealed by a licensed surveyor, cate the source and date of the elevation	
G2.	A community official completed or Zone AO.	Section E for a building located in Zone A (without a	a FEMA-issued or community-issued BFE)	
G3.	The following information (Item	s G4–G10) is provided for community floodplain mar	nagement purposes.	
G4.	Permit Number	G5. Date Permit Issued	G6. Date Certificate of	
			compliance/coodparity located	
G10.	Community's design flood elevation	Title	feet imeters Datum	
Com		Telephone		
	atura	Date		
Signa	ature			
Signa				
Signa	ments (including type of equipment a	and location, per C2(e), if applicable)		
Sign: Com	ments (including type of equipment a	and location, per C2(e), if applicable)		
Sign: Com	ments (including type of equipment a	and location, per C2(e), if applicable)		
Sign:	ments (including type of equipment a	and location, per C2(e), if applicable)		
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Sign	ments (including type of equipment a	and location, per C2(e), if applicable)		
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Sign	ments (including type of equipment a	and location, per C2(e), if applicable)		
Com	ments (including type of equipment a	and location, per C2(e), if applicable)		
Sign	ments (including type of equipment a	and location, per C2(e), if applicable)		

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ELEVATION CERTIFICATE	See Instructions for	or Item A6.	OMB No. 1660-0008 4/1 Expiration Date: November 30, 2011	
MPORTANT: In these spaces, copy	the corresponding information f	rom Section A.	FOR INSURANCE COMPANY US	
Building Street Address (including Apl 159 Cabana Rd	., Unit, Suite, and/or Bldg. No.) or F	P.O. Route and Box No.	Policy Number:	
City Myrtle Beach	State South Carolina	ZIP Code 29572	Company NAIC Number	
If using the Elevation Certificate to instructions for Item A6. Identify all p "Left Side View." When applicable, vents, as indicated in Section A8. If s	o obtain NFIP flood insurance, at hotographs with date taken; "Front photographs must show the found submitting more photographs than v	ffix at least 2 building p View" and "Rear View"; a dation with representative vill fit on this page, use the	ohotographs below according to the and, if required, "Right Side View" and e examples of the flood openings or e Continuation Page.	
	TEOH			
R.			Martin Contraction	
hoto One Caption Front View 5-4-20	Photo One 18			
	T			
			-	

Photo Two Caption Rear View 5-4-2018

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ELEVATION CERTIFICATE	Continua	ation Page	OMB No. 1660-0008 Expiration Date: November 30, 2048	£ 4.1
IMPORTANT: In these spaces, copy the co	orresponding informat	ion from Section A.	FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, 159 Cabana Rd 🧹	Policy Number:			
City Myrtle Beach	State South Carolin	ZIP Code a 29572	Company NAIC Number	1

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 Left Side View 5-4-2018



Photo Two Caption Right Side View 5-4-2018

72464



Most Widely Accepted and Trusted

ICC-ES Evaluation Report

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

ESR-2074

Reissued 02/2017 This report is subject to renewal 02/2019.

DIVISION: 08 00 00—OPENINGS SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

heelon

73464

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



Look for the trusted marks of Conformity!

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

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





SCC Accredited CB-P/S GGPS Accredite CCN

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ICC-ES Evaluation Report

Most Widely Accepted and Trusted

ESR-2074

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

A Subsidiary of the International Code Council®

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

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 and FloodVENT[®] Stacking Model #1540-521 must be

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installed with a minimum of one FV for every 400 square feet (37.2 m^2) 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).

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

TABLE 1-MODEL SIZES

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



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ESR-2074 CBC and CRC Supplement

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

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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 (877) 441-8368 www.smartvent.com info@smartvent.com

EVALUATION SUBJECT:

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

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent[®] Automatic Foundation Flood Vents, recognized in ICC-ES master evaluation report ESR-2074, have also been evaluated for compliance with codes noted below.

Applicable code edition:

- 2016 California Building Code (CBC)
- 2016 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with 2016 CBC Chapter 12, provided the design and installation are in accordance with the 2015 *International Building Code*[®] (IBC) provisions noted in the master report and the additional requirements of CBC Chapters 12, 16 and 16A, as applicable.

The products recognized in this supplement have not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.2 CRC:

The Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the 2016 CRC, provided the design and installation are in accordance with the 2015 *International Residential Code*[®] (IRC) provisions noted in the master report.

The products recognized in this supplement have not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The products recognized in this supplement have not been evaluated for compliance with the International Wildland–Urban Interface Code[®].

This supplement expires concurrently with the master report, reissued February 2017 and revised November 2017.

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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 (877) 441-8368 www.smartvent.com info@smartvent.com

EVALUATION SUBJECT:

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

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent[®] Automatic Foundation Flood Vents, recognized in ICC-ES master report ESR-2074, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

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

2.0 CONCLUSIONS

The Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the *Florida Building Code—Building* and the FRC, provided the design and installation are in accordance with the 2015 International Building Code[®] provisions noted in the master report.

Use of the Smart Vent[®] Automatic Foundation Flood Vents has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and the *Florida Building Code—Residential*.

For products falling under Florida Rule 9N-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

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