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

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.

	SEC	TION A – PROPERTY	INFOF	NOTAN	***	FOR INSU	RANCE COMPANY USE
A1. Building Own	er's Name					Policy Nun	nber:
A2. Building Stree Box No. 8103 Amherst Ave		cluding Apt., Unit, Suite	e, and/o	or Bldg. No.) or P.O	. Route and	Company I	NAIC Number:
City Margate			***************************************	State New Jersey		ZIP Code 08402	
A3. Property Desc Block 509.03, Lot 8		nd Block Numbers, Ta	x Parce	el Number, Legal De	escription, etc.)		
A4. Building Use (e.g., Resider	ntial, Non-Residential, A	\dditior	n, Accessory, etc.)	Residential		
A5. Latitude/Longitude: Lat. N°39°19'51.5" Long. W74°30'07.1" Horizontal Datum: NAD 1927 NAD 1983							
A6. Attach at least	2 photograp	hs of the building if the	Certific	cate is being used t	o obtain flood insura	nce.	
A7. Building Diagr	am Number	88					
A8. For a building	with a crawls	pace or enclosure(s):					
a) Square foo	tage of crawl	space or enclosure(s)		800 sq ft			
b) Number of	permanent flo	ood openings in the cra	wispac	æ or enclosure(s) w	vithin 1.0 foot above	adjacent gr	ade 4
c) Total net area of flood openings in A8.b 800 sq in							
d) Engineered	d) Engineered flood openings? 🗵 Yes 🔲 No						
A9. For a building with an attached garage:							
a) Square footage of attached garage 220 sq ft							
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 2							
					ar and to diajacomi g.		
d) Engineered flood openings? Yes No							
	SE.	CTION B - FLOOD IN	SURA	MCE RATE MAP	(FIRW) INFORWAT	'ION	
B1. NFIP Communi Margate City 34530		ommunity Number		B2. County Name Atlantic			B3. State New Jersey
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Ei Ei	I Panel IRM Panel Ifective/ evised Date	B8. Flood Zone(s)	(Zoi	se Flood Elevation(s) ne AO, use Base
34001C 0434	F	01/30/2015		/2018	AE	8.00	od Depth)
		Base Flood Elevation (I			pth entered in Item I	39:	
B11. Indicate eleva	tion datum us	sed for BFE in Item B9:		GVD 1929 ⊠ NA	VD 1988 🔲 Othe	er/Source:	
B12. Is the building	located in a	Coastal Barrier Resoul	ces Sy	stem (CBRS) area	or Otherwise Protec	ted Area (C	PPA)? ☐ Yes ☒ No
Designation Date: CBRS DPA							
			шаништи				

ELEVÁTION 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 8103 Amherst Avenue	Policy Number:		
City Sta Margate Ne		² Code 402	Company NAIC Number
SECTION C – BUILDING EL	EVATION INFORMA	TION (SURVEY RI	EQUIRED)
C1. Building elevations are based on: Construction *A new Elevation Certificate will be required when consider the complete Items C2.a—h below according to the build Benchmark Utilized: Local BM Indicate elevation datum used for the elevations in including basement, Crawley Datum used for building elevations must be the same a) Top of bottom floor (including basement, crawley b) Top of the next higher floor c) Bottom of the lowest horizontal structural member d) Attached garage (top of slab) e) Lowest elevation of machinery or equipment ser (Describe type of equipment and location in Configure 1) Lowest adjacent (finished) grade next to building the constant of decrease in the configuration of decrease in the constant in the configuration of decrease in the constant in the configuration in Configuration and constant in the configuration in Con	on Drawings* Bustonstruction of the build VE, V1–V30, V (with Eding diagram specified Vertical Datum tems a) through h) beloes as that used for the pace, or enclosure floor (V Zones only) vicing the building nments) a (LAG)	ilding Under Constru ling is complete. BFE), AR, AR/A, AR/ in Item A7. In Puert I: NAVD 1988 Dw.	iction*
structural support	***************************************	**************************************	
SECTION D – SURVEYOR, This certification is to be signed and sealed by a land sur I certify that the information on this Certificate represents statement may be punishable by fine or imprisonment ur Were latitude and longitude in Section A provided by a lie	rveyor, engineer, or arc s my best efforts to intender ader 18 U.S. Code, Sec	chitect authorized by rpret the data availaction 1001.	law to certify elevation information
Certifier's Name James R. Boney, PLS Title Professional Land Surveyor Company Name James R. Boney & Associates, LLC Address 13 Stone Mill Court City Egg Harbor Twp Signature Copy all pages of this Elevation Certificate and all attachme Comments (including type of equipment and location, per Newly constructed two story dwelling on crawlspace. A/C front entrance foyer is at elevation 9.70 and the main FF in	C2(e), if applicable) unit on platform outsic		

ELEVATION CERTIFICATE

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

IMP	'ORTANT: In these spaces, copy the correspondir	g information from	Section A.		FOR INSURAN	CE COMPANY USE
	ilding Street Address (including Apt., Unit, Suite, and/ 03 Amherst Avenue	or Bldg. No.) or P.O. F	Route and Box	No.	Policy Number:	
Cit	<i>y</i> Si	tate Z	IP Code		Company NAIC	Number
•	,		8402			
	SECTION E – BUILDING ELE FOR ZONE	VATION INFORMAT AO AND ZONE A (V			REQUIRED)	
con	Zones AO and A (without BFE), complete Items E1– nplete Sections A, B,and C. For Items E1–E4, use na er meters.	E5. If the Certificate is tural grade, if availabl	intended to s e. Check the r	upport a neasuren	LOMA or LOMR nent used. In Pu	-F request, erto Rico only,
E1.	Provide elevation information for the following and countries the highest adjacent grade (HAG) and the lowest ac		boxes to show	whether	the elevation is	above or below
	 a) Top of bottom floor (including basement, crawlspace, or enclosure) is 		_ [] feet [meters	above or	below the HAG.
	 Top of bottom floor (including basement, crawlspace, or enclosure) is 	***************************************	_	meters	; ☐ above or	below the LAG.
E2.	For Building Diagrams 6–9 with permanent flood op- the next higher floor (elevation C2.b in	enings provided in Se	ction A Items	8 and/or s	9 (see pages 1–	2 of Instructions),
	the diagrams) of the building is	***************************************	[] feet [] meters	above or	below the HAG.
	Attached garage (top of slab) is		_ [] feet [] meters	above or	☐ below the HAG.
E4.	Top of platform of machinery and/or equipment servicing the building is	**************************************	_ []feet [meters	above or	below the HAG.
E5.	Zone AO only: If no flood depth number is available, floodplain management ordinance?	is the top of the botto No ☐ Unknown. 1	m floor elevat The local offici	ed in acc al must c	ordance with the ertify this inform	e community's ation in Section G.
	SECTION F - PROPERTY OWNE	ER (OR OWNER'S RE	EPRESENTAT	IVE) CEI	RTIFICATION	живахинально донения попана попанальная применения попанальная попанальная попанальная попанальная попанальная
The con	property owner or owner's authorized representative nmunity-issued BFE) or Zone AO must sign here. The	who completes Sectionstatements in Section	ons A, B, and ns A, B, and E	E for Zor	ne A (without a F act to the best o	EMA-issued or f my knowledge.
Pro	perty Owner or Owner's Authorized Representative's	Name	понивания попасном принамения	EARTH AND THE STATE OF THE STAT		**************************************
Add	İress	City		Sta	te	ZIP Code
Sigi	nature	Date		Tele	phone	
Con	nments					
						A A A A A A A A A A A A A A A A A A A
						нималалания
						инийниллала Т
						миндалданый
						идададиили
					Check h	ere if attachments.

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corre	sponding information fr	om Section A.	FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, St 8103 Amherst Avenue	iite, and/or Bldg. No.) or P	.O. Route and Box No.	Policy Number:			
City Margate	State New Jersey	ZIP Code 08402	Company NAIC Number			
SECTIO	N G - COMMUNITY INFO	RMATION (OPTIONAL)				
The local official who is authorized by law or on Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, ent	Certificate. Complete the	community's floodplain ma applicable item(s) and sign	nagement ordinance can complete i below. Check the measurement			
G1. The information in Section C was take engineer, or architect who is authorized data in the Comments area below.)	en from other documentati ed by law to certify elevation	on that has been signed ar on information. (Indicate th	nd sealed by a licensed surveyor, e source and date of the elevation			
G2. A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.						
G3. The following information (Items G4—	G10) is provided for comm	unity floodplain manageme	ent purposes.			
G4. Permit Number	G5. Date Permit Issued		Date Certificate of Compliance/Occupancy Issued			
G7. This permit has been issued for:	New Construction 🗌 Su	bstantial Improvement				
G8. Elevation of as-built lowest floor (including of the building:	basement)		meters Datum			
G9. BFE or (in Zone AO) depth of flooding at the	ne building site:	feet	meters Datum			
G10. Community's design flood elevation:	Marine a contract of the contr	[feet	meters Datum			
Local Official's Name	tino		CFM			
Community Name MANGATE	Te	elephone 609 - 6	822-1914			
Signature	Da	ate	5/1/19			
Comments (including type of equipment and loca	ation, per C2(e), if applicat					
			под			
			подпольний			
			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, copy the	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., U	Policy Number:		
8103 Amherst Avenue			
City	State	ZIP Code	Company NAIC Number
Margate	New Jersey	08402	
<u> </u>			4

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 03/08/2019



Photo Two

Photo Two Caption Rear 03/08/19

BULDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2018

City	State	ZIP Code	Company NAIC Number
City	State	ZIP Code	Company NAIC Number
Margate	New Jersev	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.

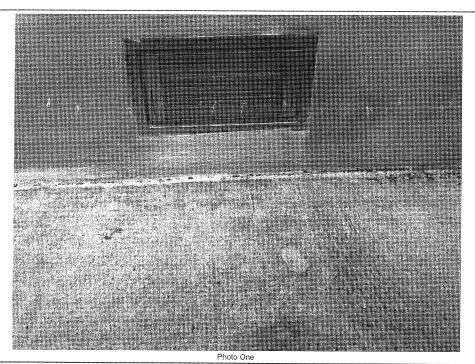
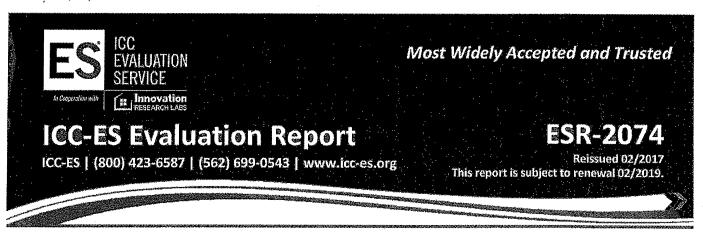


Photo One Caption Smart Vent Model 1540-510 (typical)

Photo Two

Photo Two

Photo Two Caption



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 Revised November 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 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

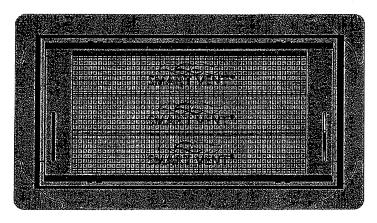


FIGURE 1-SMART VENT: MODEL 1540-510

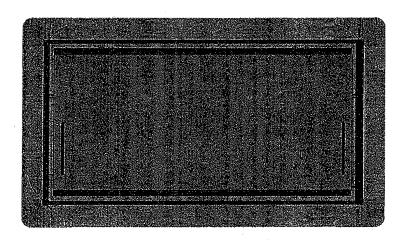


FIGURE 2-SMART VENT MODEL 1540-520

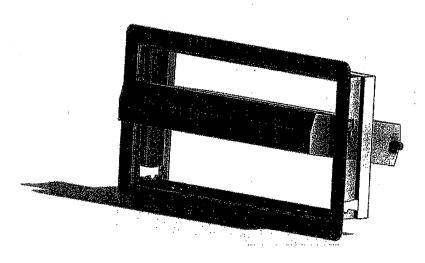


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN