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ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1–9.

Copy	all pages	of this El	evation	Certificate	and al	I attachm	ents fo	r (1)	community	official.	(2)	insurance ag	aent/com	panv	/. and ((3)) building	owner.

		TION A - PROPERTY					RANCE COMPANY USE
A1. Building Owne						Policy Num	
Burt & Jill Langer							
Box No.		luding Apt., Unit, Suite	e, and/o	r Bldg. No.) or P.O.	Route and	Company N	IAIC Number:
103 N Iroquois Ave	nue				·····		
City				State		ZIP Code	
Margate	· · · / /			New Jersey	·	08402	
A3. Property Desc Block 310.02, Lot 1	• •	nd Block Numbers, Ta	x Parce	I Number, Legal De	escription, etc.)		
A4. Building Use (e.g., Residen	tial, Non-Residential, A	Addition	, Accessory, etc.)	Residential		
A5. Latitude/Longit	tude: Lat. <u>N</u> °	'39°19'46.5"	Long. V	V74°30'07.2"	Horizontal Datur	n: 🗌 NAD	1927 🔀 NAD 1983
A6. Attach at least	2 photograph	ns of the building if the	Certific	ate is being used to	o obtain flood insur	ance.	
A7. Building Diagra	am Number	8					
A8. For a building	with a crawls	pace or enclosure(s):					
a) Square foot	tage of crawls	space or enclosure(s)		915 sq ft			
b) Number of i	permanent flo	ood openings in the cra	awlspac	e or enclosure(s) w	ithin 1.0 foot above	e adiacent or	ade 6
		penings in A8.b 1,2	-	sq in		, .	
d) Engineered				24 m	,.		
	-		O				
A9. For a building v	vith an attach	ed garage:					
a) Square foot	age of attach	ed garagen/a	1	sq ft			
b) Number of	permanent flo	od openings in the att	ached g	garage within 1.0 fo	ot above adjacent	grade	n/a
c) Total net are	ea of flood op	enings in A9.b	n/a	sq in			
d) Engineered	flood openin	gs?	0	-			
, 0	•						
	SE	CTION B - FLOOD II	NSURA	NCE RATE MAP	(FIRM) INFORMA		
B1. NFIP Communi	•	ommunity Number	-	B2. County Name			B3. State
Margate City 34530	4			Atlantic			New Jersey
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Ef	IRM Panel ffective/	B8. Flood Zone(s	(Zo	se Flood Elevation(s) ne AO, use Base
34001C 0434	F	08/28/2018	1.	evised Date /2018	AE	9.0	od Depth)
B10. Indicate the se	ource of the E	Base Flood Elevation (BFE) da	ata or base flood de	epth entered in Iter	n B9:	
FIS Profile	FIRM [Community Determ	nined [Other/Source:			
B11. Indicate eleva	tion datum us	sed for BFE in Item B9	9: 🗌 N	GVD 1929 🔀 NA	VD 1988 🗌 Ot	her/Source:	
B12. Is the building	located in a	Coastal Barrier Resou	Irces S	/stem (CBRS) area	or Otherwise Prot	ected Area (OPA)? 🗌 Yes 🔀 No
Designation D			CBRS	□ OPA		,	

ELEVATION CERTIFICATE			OMB No. 1660-0008 Expiration Date: November 30, 2018
IMPORTANT: In these spaces, copy the corresp	onding information from	m Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, 103 N Iroquois Avenue	, and/or Bldg. No.) or P.C). Route and Box No.	Policy Number:
City	State	ZIP Code	Company NAIC Number
Margate	New Jersey	08402	
SECTION C – BUILDI	NG ELEVATION INFO	RMATION (SURVEY R	EQUIRED)
*A new Elevation Certificate will be required v	when construction of the	•	
C2. Elevations – Zones A1–A30, AE, AH, A (with Complete Items C2.a–h below according to t	he building diagram spec	cified in Item A7. In Puer	≀/AE, AR/A1–A30, AR/AH, AR/AO. rto Rico only, enter meters.
Benchmark Utilized: Local BM		atum: <u>NAVD 1988</u>	
Indicate elevation datum used for the elevatio) below.	
Datum used for building elevations must be the	he same as that used for	the BFE.	Check the measurement used.
a) Top of bottom floor (including basement, o	crawlspace or enclosure	e floor) 6.5	M feet meters
b) Top of the next higher floor		<u> </u>	
c) Bottom of the lowest horizontal structural	member (V/Zones only)	N/A	
d) Attached garage (top of slab)		N/A	feet meters
 e) Lowest elevation of machinery or equipme (Describe type of equipment and location) 	ent servicing the building in Comments)	10.0	X feet meters
f) Lowest adjacent (finished) grade next to b	,	6.5	feet 🔲 meters
g) Highest adjacent (finished) grade next to t	,	6.7	Keet meters
 h) Lowest adjacent grade at lowest elevation structural support 			Keet meters
SECTION D - SURVE	EYOR, ENGINEER, OR	ARCHITECT CERTIF	ICATION
This certification is to be signed and sealed by a la l certify that the information on this Certificate repr statement may be punishable by fine or imprisonn	resents mv best efforts to	o interpret the data availa	y law to certify elevation information. able. I understand that any false
Were latitude and longitude in Section A provided			Check here if attachments.
Certifier's Name James R. Boney, PLS	License Numbe 31264	r	
Title			-
Professional Land Surveyor			
Company Name James R. Boney & Associates, LLC			Place Seal
Address			Here
13 Stone Mill Court			
City	State	ZIP Code	
Egg Harbor Twp	New Jersey	08234	
Signature Amtha	Date 10/11/2018	Telephone (609) 788-8013	
Copy all pages of this Elevation Certificate and all att	achments for (1) commur	nity official, (2) insurance	agent/company, and (3) building owner.
Comments (including type of equipment and location			
Two story frame dwelling on crawlspace. All mecha	anicals are above the FF	. Six smart vents are ins	stalled.

ELEVATION CERTIFICATE			OMB No. 1660-0008 Expiration Date: Novembe	r 30, 2018
IMPORTANT: In these spaces, copy the co	rresponding information	from Section A.	FOR INSURANCE COMF	ANY USE
Building Street Address (including Apt., Unit, 103 N Iroquois Avenue	Suite, and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:	
City Margate	State New Jersey	ZIP Code 08402	Company NAIC Number	
SECTION E – BUIL	DING ELEVATION INFO	RMATION (SURVEY N	DT REQUIRED)	
For Zones AO and A (without BFE), complete complete Sections A, B,and C. For Items E1-	e Items E1–E5. If the Certif	icate is intended to suppo	rt a LOMA or LOMR-F request urement used. In Puerto Rico o	t, only,
enter meters. E1. Provide elevation information for the follo the highest adjacent grade (HAG) and the	ne lowest adjacent grade (L	priate boxes to show whe AG).	ther the elevation is above or b	below
 a) Top of bottom floor (including basem crawlspace, or enclosure) is 		feet [] me	eters 🔲 above or 🗌 below	the HAG.
 b) Top of bottom floor (including basem crawlspace, or enclosure) is 	ent,	feet 🗌 me	eters 🔲 above or 🗌 below	the LAG.
E2. For Building Diagrams 6–9 with permane the next higher floor (elevation C2.b in	ent flood openings provideo	l in Section A Items 8 and	/or 9 (see pages 1–2 of Instruc	ctions),
the diagrams) of the building is E3. Attached garage (top of slab) is		feet me		
E4. Top of platform of machinery and/or equ	ipment	feet [_] me	ters above or below	the HAG.
servicing the building is E5. Zone AO only: If no flood depth number	· · · · · · · · · · · · · · · · · · ·	feet me		
floodplain management ordinance?	Yes No Unkno	wn. The local official mu	st certify this information in Se	ection G.
SECTION F – PROPE	RTY OWNER (OR OWNE	R'S REPRESENTATIVE)	CERTIFICATION	
The property owner or owner's authorized rep community-issued BFE) or Zone AO must sig	presentative who completes in here. The statements in t	s Sections A, B, and E for Sections A, B, and E are o	Zone A (without a FEMA-issue correct to the best of my knowl	ed or ledge.
Property Owner or Owner's Authorized Repre	esentative's Name			
Address	(City	State ZIP Co	de
Signature	Γ	Date	Telephone	
Comments				
			Check here if attac	hments.

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ELEVATION CERTIFICATE			OMB No. 1660-000 Expiration Date: No	
IMPORTANT: In these spaces, copy the corre	esponding information	from Section A.	FOR INSURANCE	
Building Street Address (including Apt., Unit, St 103 N Iroquois Avenue	uite, and/or Bldg. No.) or	r P.O. Route and Box		
City Margate	State New Jersey	ZIP Code 08402	Company NAIC Nu	mber
SECTIO	ON G – COMMUNITY IN		NAL)	
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 th	e community's floodpl ne applicable item(s) a	ain management ordinance nd sign below. Check the m	can complete easurement
G1. The information in Section C was tak engineer, or architect who is authoriz data in the Comments area below.)	en from other document ed by law to certify eleva	ation that has been si ation information. (Ind	gned and sealed by a licens cate the source and date of	ed surveyor, the elevation
G2. A community official completed Section Zone AO.	on E for a building locate	ed in Zone A (without	a FEMA-issued or communi	ty-issued BFE)
G3. The following information (Items G4–	G10) is provided for con	nmunity floodplain ma	nagement purposes.	
G4. Permit Number	G5. Date Permit Issue	ed	G6. Date Certificate of Compliance/Occupan	cy Issued
 G7. This permit has been issued for: G8. Elevation of as-built lowest floor (including of the building: G9. BFE or (in Zone AO) depth of flooding at t 		[] feet	
G10. Community's design flood elevation:		[_ feet _ meters _ Datum	
Local Official's Name		Title	1.	
Community Name Mah Car	TR III	Telephone 60	т 1-822-1914	/
Signature		/ 0	110/18	
Comments (including type of equipment and loc	ation, per C2(e), if appli	cable)		
			Check here	if attachments.

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

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

IMPORTANT: In these spaces, copy th	e corresponding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., 103 N Iroquois Avenue	Policy Number:		
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 Caption Front 10/11/2018



Photo Two Caption Rear 10/11/18

v

BUILDING PHOTOGRAPHS

OMB No. 1660-0008 20 2010

ELEVATION CERTIFICATE	Continuatio	n Page	Expiration Date: November 30, 2018
IMPORTANT: In these spaces, copy the correspo	onding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, 103 N Iroquois Avenue	and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:
City Margate	State New Jersey	ZIP Code 08402	Company NAIC Number
If submitting more photographs than will fit on th with: date taken; "Front View" and "Rear View photographs must show the foundation with repres	"; and, if required	, "Right Side View" and "	Left Side View." When applicable,
		• • •	
	Photo On	ė	
Photo One Caption			
	Photo T	wo	
•			
Photo Two Caption	Photo Two	0	



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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ESR-2074

Reissued 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 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)[†]

 $^{\dagger} \text{The ADIBC}$ 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,

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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 = m^2

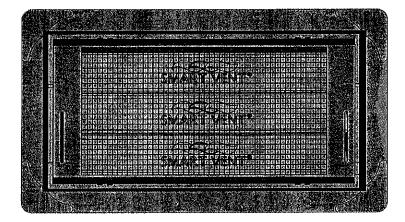


FIGURE 1-SMART VENT: MODEL 1540-510

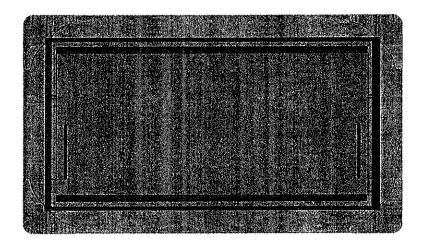


FIGURE 2-SMART VENT MODEL 1540-520

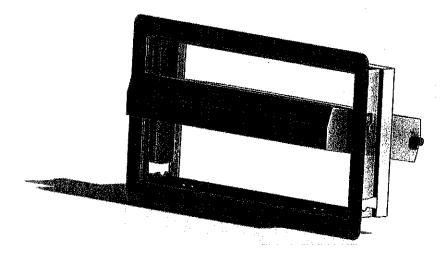


FIGURE 3-SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN