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 owing

SECTION A - PROPERTY INFORMATION FOR INSURANCE COMPANY USE A1. Building Owner's Name Policy Number: Michael Burns A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Company NAIC Number: Box No. 8205 Bayshore Drive West City State ZIP Code Margate **New Jersey** 08402 A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Block 1200 Lot 56 A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential A5. Latitude/Longitude: Lat. N39°20'20.4" Long. W74°30'44.9" Horizontal Datum: ☐ NAD 1927 ☐ NAD 1983 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) 1,795 sq ft b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade c) Total net area of flood openings in A8.b 1,800 sq in d) Engineered flood openings? X Yes No A9. For a building with an attached garage: 200 a) Square footage of attached garage sq ft b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade c) Total net area of flood openings in A9.b 200 sq in d) Engineered flood openings? SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number B2. County Name B3. State Margate City 345304 Atlantic **New Jersey** B4. Map/Panel B7. FIRM Panel B5. Suffix B6. FIRM Index B8. Flood Zone(s) B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) Number Effective/ Date Revised Date 345304/0001 C 07/01/1974 10/18/1983 **A8** B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: FIS Profile FIRM Community Determined Other/Source: B11. Indicate elevation datum used for BFE in Item B9: X NGVD 1929 NAVD 1988 Other/Source: B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?

Yes
No Designation Date: CBRS OPA

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IMPORTANT: In these spaces, copy the corresponding information from Section A.		FOR INSURANCE COMPANY USE	
8205 Bayshore Drive West			Policy Number:
City Sta Margate New	te ZIP w Jersey 084	Code 102	Company NAIC Number
SECTION C - BUILDING EL	EVATION INFORMA	TION (SURVEY RE	EQUIRED)
C1. Building elevations are based on: Construction	on Drawings*	Iding Under Constru	uction*
*A new Elevation Certificate will be required when co			
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), Complete Items C2.a–h below according to the build Benchmark Utilized: GPS	VE, V1–V30, V (with E ding diagram specified Vertical Datum	in Item A7. In Puert	AE, AR/A1–A30, AR/AH, AR/AO. o Rico only, enter meters.
Indicate elevation datum used for the elevations in it			

Datum used for building elevations must be the sam	e as that used for the	BFE.	Check the measurement used.
a) Top of bottom floor (including basement, crawlsp	ace, or enclosure floor	r)9. 6	feet meters
b) Top of the next higher floor		14. 6	x feet meters
c) Bottom of the lowest horizontal structural member	er (V Zones only)	n/a	
d) Attached garage (top of slab)	Service and the service and th	9. 7	🔀 feet 🗌 meters
e) Lowest elevation of machinery or equipment sen (Describe type of equipment and location in Com	vicing the building iments)	10. 6	x feet _ meters
f) Lowest adjacent (finished) grade next to building	(LAG)	<u>9</u> . <u>6</u>	x feet meters
g) Highest adjacent (finished) grade next to building	g (HAG)	<u>9</u> . <u>7</u>	x feet meters
 h) Lowest adjacent grade at lowest elevation of dec structural support 	ck or stairs, including	<u>9</u> . <u>4</u>	X feet
SECTION D - SURVEYOR,	ENGINEER, OR AR	CHITECT CERTIF	ICATION
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 un	mv best efforts to inte	erpret the data availa	/ law to certify elevation information. able. I understand that any false
Were latitude and longitude in Section A provided by a lie			Check here if attachments.
Certifier's Name	License Number		
James R. Boney, PLS	31264		-
Title Professional Land Surveyor			
Company Name			Place
James R. Boney & Associates, LLC			Seal Here
Address 13 Stone Mill Court			Tiele
City Egg Harbor Twp	State New Jersey	ZIP Code 08234	
Signature	Date 08/10/2016	Telephone (609) 788-8013	-
Copy all pages of this Elevation Certificate and all attachme	ents for (1) community of	fficial, (2) insurance	agent/company, and (3) building owner.
Comments (including type of equipment and location, per Building is a two story dwelling that has been lifted onto a mechanicals are outside on a platform. All flood openings	a new concrete founda		

ELEVATION CERTIFICATE

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

MPORTANT: In these spaces, copy the corresponding information from Se	ction A.	FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Ro	ute and Box No.	Policy Number:			
8205 Bayshore Drive West					
•	Code	Company NAIC Number			
Margate New Jersey 084					
SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)					
For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is in complete Sections A, B, and C. For Items E1–E4, use natural grade, if available, enter meters.					
E1. Provide elevation information for the following and check the appropriate bo the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).	xes to show whethe	r the elevation is above or below			
a) Top of bottom floor (including basement, crawlspace, or enclosure) is	feet meter	s above or below the HAG.			
b) Top of bottom floor (including basement, crawlspace, or enclosure) is	☐ feet ☐ meter	s above or below the LAG.			
E2. For Building Diagrams 6–9 with permanent flood openings provided in Secti	ion A Items 8 and/or	9 (see pages 1–2 of Instructions),			
the next higher floor (elevation C2.b in the diagrams) of the building is	☐ feet ☐ meter	s above or below the HAG.			
E3. Attached garage (top of slab) is	☐ feet ☐ meter	s above or below the HAG.			
E4. Top of platform of machinery and/or equipment servicing the building is	☐ feet ☐ meter	s 🔲 above or 🗌 below the HAG.			
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floodplain management ordinance? Yes No Unknown. The		cordance with the community's certify this information in Section G.			
SECTION F - PROPERTY OWNER (OR OWNER'S REP	PRESENTATIVE) CE	RTIFICATION			
The property owner or owner's authorized representative who completes Section community-issued BFE) or Zone AO must sign here. The statements in Sections	ns A, B, and E for Zo	ne A (without a FEMA-issued or			
Property Owner or Owner's Authorized Representative's Name		, , , ,			
Address City	Sta	ate ZIP Code			
1_1	T-I-				
Signature Date	Telephone	P.L.K			
Comments	1 1	-			

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the cor	responding information from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, S 8205 BAYSHORE DRIVE	suite, and/or Bidg. No.) or P.O. Route and Bo	x No. Policy Number:
City MARGATE	State ZIP Code New Jersey 08402	Company NAIC Number
SECTI	ON G - COMMUNITY INFORMATION (OPT	IONAL)
The local official who is authorized by law or o Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, en	n Certificate. Complete the applicable item(s	plain management ordinance can complete and sign below. Check the measurement
G1. The information in Section C was tal engineer, or architect who is authorized data in the Comments area below.)	xen from other documentation that has been zed by law to certify elevation information. (In	signed and sealed by a licensed surveyor, idicate the source and date of the elevation
G2. A community official completed Sector or Zone AO.	ion E for a building located in Zone A (witho	ut a FEMA-issued or community-issued BFE)
G3. The following information (Items G4-	-G10) is provided for community floodplain r	nanagement purposes.
G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction Substantial Improve	ment
G8. Elevation of as-built lowest floor (includin of the building:	g basement)	feet meters Datum
G9. BFE or (in Zone AO) depth of flooding at	the building site:	feet meters Datum
G10. Community's design flood elevation:		feet meters Datum
Local Official's Name JIM GALANTINO	Title CFM	
Community Name	Telephone	
CITY OF MARGATE	609-822-1	974
Signature	Date 10/20/16	
Comments (including type of equipment and lo	cation, per C2(e), if applicable)	
· ·		
+		
		Check here if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

OMB No. 1660-0008

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IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including 8205 Bayshore Drive West	Apt., Unit, Suite, and/or Bldg. No.) or	P.O. Route and Box No.	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.



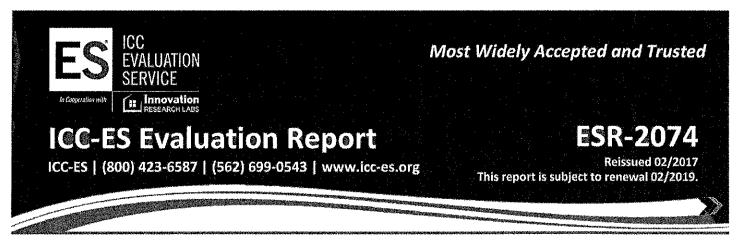
Photo One

Photo One Caption Front 8-05-16



Photo Two

Photo Two Caption Rear 8-05-16



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

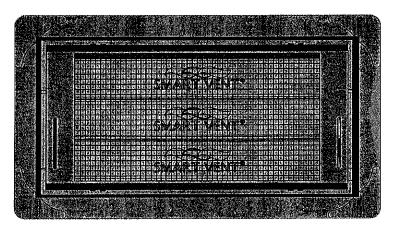


FIGURE 1—SMART VENT: MODEL 1540-510

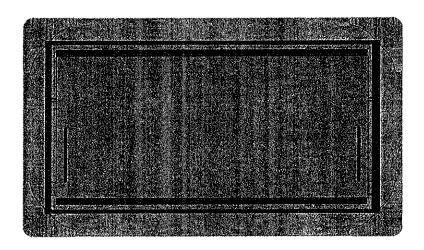


FIGURE 2-SMART VENT MODEL 1540-520

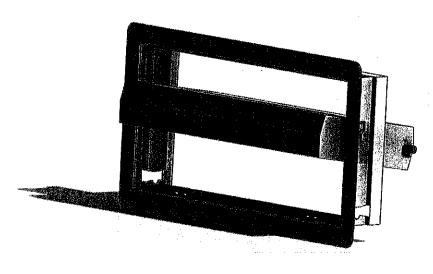


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN