U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

# **ELEVATION CERTIFICATE**

Important: Read the instructions on pages 1-9.

OMB No. 1660-0008 Expiration Date: July 31, 2015

	SEC	TION A - PROPERTY	NFORMATION	FOR INSURANCE COMPANY USE
A1. Building Owner's Name Steve	n & Joan Katz			Policy Number:
A2. Building Street Address (includ 18 S BARCLAY AVENUE	ing Apt., Unit, Suite, and/o	r Bldg. No.) or P.O. Route a	and Box No.	Company NAIC Number:
City Margate		State NJ ZII	P Code 08402	
A3. Property Description (Lot and B Block 102.02 Lot 16	Nock Numbers, Tax Parcel	Number, Legal Description	, etc.)	
<ul> <li>A4. Building Use (e.g., Residential,</li> <li>A5. Latitude/Longitude: Lat. N 39d-</li> <li>A6. Attach at least 2 photographs of A7. Building Diagram Number 8</li> <li>A8. For a building with a crawlspace a) Square footage of crawlspace b) Number of permanent flood or enclosure(s) within 1.0 for c) Total net area of flood openings?</li> <li>d) Engineered flood openings?</li> </ul>	19'-52.5" Long. W 74d-29  f the building if the Certificate or enclosure(s): ce or enclosure(s) openings in the crawlspace of above adjacent grade ings in A8.b	'-37.2" ate is being used to obtain t A9 1500 sq ft	Horizontal Dat Rood insurance.  For a building with an a a) Square footage of a b) Number of perman within 1.0 foot abov c) Total net area of flo	attached garage sq ft ent flood openings in the attached garage e adjacent grade od openings in A9.b sq in
a) Engineered flood openings:		INCURANCE DATE IN	d) Engineered flood o	
	SECTION B - FLOOL	INSURANCE RATE M	AP (FIRM) INFURMAT	ION
B1. NFIP Community Name & Community Name	nunity Number	B2. County Name Atlantic		B3. State NJ
B4. Map/Panel Number B5. S		Date B7. FIRM Pa Effective/Revise 10/18/83		B9. Base Flood Elevation(s) (Zone AO, use base flood depth) N/A
☐ FIS Profile ☑ FIR  B11. Indicate elevation datum used for  B12. Is the building located in a Coase  Designation Date:	or BFE in Item B9: NG	VD 1929 □ NAVD	1988	
SI	ECTION C - BUILDING	ELEVATION INFORMA	ATION (SURVEY REQI	JIRED)
<ol> <li>Building elevations are based on:         <sup>*</sup>A new Elevation Certificate will b</li> <li>Elevations – Zones A1–A30, AE, below according to the building d</li> <li>Benchmark Utilized: GPS Indicate elevation datum used for Datum used for building elevation</li> </ol>	e required when construct AH, A (with BFE), VE, V1- iagram specified in Item A7 the elevations in items a)	ion of the building is comple -V30, V (with BFE), AR, AR 7. In Puerto Rico only, enter Vertical Datum: 1929 through h) below. ☑ NGVI	/A, AR/AE, AR/A1-A30, A meters.	Finished Construction  R/AH, AR/AO. Complete Items C2.a-h  Other/Source:
Date in Social of Sanding distation	io that be the came as the	11 4000 TO: 11.10 D: 2.	Che	eck the measurement used.
<ul> <li>a) Top of bottom floor (including b)</li> <li>b) Top of the next higher floor</li> <li>c) Bottom of the lowest horizontal</li> <li>d) Attached garage (top of slab)</li> <li>e) Lowest elevation of machinery (Describe type of equipment ar</li> </ul>	structural member (V Zon	es only)	9.4 12.92 	☑ feet ☐ meters   ☑ feet ☐ meters   ☐ feet ☐ meters   ☑ feet ☐ meters      Meters
<ul> <li>f) Lowest adjacent (finished) grace</li> <li>g) Highest adjacent (finished) grace</li> <li>h) Lowest adjacent grade at lowest</li> </ul>	de next to building (HAG)	s. including structural supp	9. <u>55</u> <u>10.18</u> ort 9.56	⊠ feet
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION  This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available, understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.  Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor?   Yes  No				
Certifier's Name James R. Boney		License N	lumber 31264	
Title Land Surveyor	Company Name	James R. Boney & Associa	tes, LLC	
Address 13 Stone Mill C!	City Egg Harbor T	wp State NJ	ZIP Code 08234	
Signature MMh	Date July 18, 201	3 Telephone	e (609) 78 <b>8-80</b> 13	

INDUCATION AND A ALLEA AND AND ALLEA		1
IMPORTANT: In these spaces, copy the corresponding information fro	FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route a 18 S. Barclay Avenue	Policy Number:	
City Margate State NJ	ZIP Code 08402	Company NAIC Number:
SECTION D - SURVEYOR, ENGINEER, OR ARC	HITECT CERTIFICATION	(CONTINUED)
Copy both sides of this Elevation Certificate for (1) community official, (2) insurance a	agent/company, and (3) buildi	ng owner.
Comments A/C Units are on Elevated platform upon the roof of the detached garage	e structure.	
For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is internand C. For Items E1–E4, use natural grade, if available. Check the measurement use E1. Provide elevation information for the following and check the appropriate boxes grade (HAG) and the lowest adjacent grade (LAG).  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 flood openings provided in Section.	ded to support a LOMA or LO ed. In Puerto Rico only, enter to show whether the elevation feet meter feet meter Rico only, enter feet below the meter feet meter Light meters below the HAG. feet meters feet meters feet meters	MR-F request, complete Sections A, B, meters.  In is above or below the highest adjacent is above or below the HAG.  Is above or below the LAG.  Is 8–9 of Instructions), the next higher floor with the HAG.  I above or below the HAG.
		and the first state of the second state of the second
SECTION F - PROPERTY OWNER (OR OWNER'S	****	
The property owner or owner's authorized representative who completes Sections A, or Zone AO must sign here. The statements in Sections A, B, and E are correct to the	B, and E for Zone A (without best of my knowledge.	a FEMA-issued or community-issued BFE)
Property Owner's or Owner's Authorized Representative's Name		
Address City	Sta	te ZIP Code
Signature Date	Te	ephone
Comments		
		☐ Check here if attachmen
SECTION G – COMMUNITY INFO		
e local official who is authorized by law or ordinance to administer the community's floo	dplain management ordinance	can complete Sections A, B, C (or E), and C
e local official who is authorized by law or ordinance to administer the community's floo this Elevation Certificate. Complete the applicable item(s) and sign below. Check the m	dplain management ordinance easurement used in Items G8- een signed and sealed by a lid	can complete Sections A, B, C (or E), and G G10. In Puerto Rico only, enter meters. censed surveyor, engineer, or architect who
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# **ELEVATION CERTIFICATE**, page 3

# **Building Photographs**

See Instructions for Item A6.

IMPORTANT: In these spaces, copy the correspondence	onding information fro	m Section A.	FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, Suite, and/or 18 S. Barclay Ave	Policy Number:			
City Margate	State NJ	ZIP Code 08402	Company NAIC Number:	dus

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.



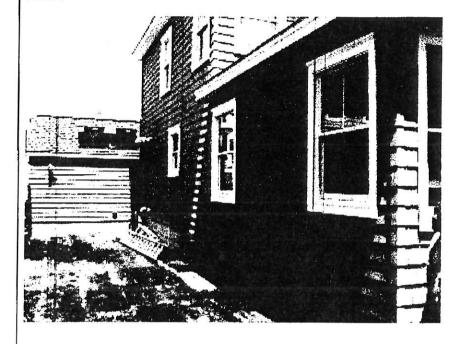
# **ELEVATION CERTIFICATE**, page 4

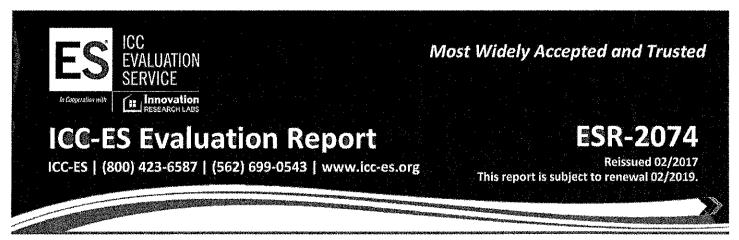
# **Building Photographs**Continuation Page

IMPORTANT: In these spaces, copy the co	rresponding information fro	om Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, 18 S. Barclay Ave	and/or Bidg. No.) or P.O. Route	and Box No.	Policy Number:
City Margate	State NJ	ZIP Code 08402	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.

# REAR





**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.

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

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)<sup>†</sup>

<sup>†</sup>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<sup>®</sup> 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  $400 \text{ square feet } (37.2 \text{ m}^2) \text{ of enclosed area.}$ 

- 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<sup>®</sup> 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 <sup>®</sup>	1540-520	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200
SmartVENT <sup>®</sup>	1540-510	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200
FloodVENT <sup>®</sup> Overhead Door	1540-524	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200
SmartVENT <sup>®</sup> Overhead Door	1540-514	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200
Wood Wall FloodVENT®	1540-570	14" X 8 <sup>3</sup> / <sub>4</sub> "	200
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 8 <sup>3</sup> / <sub>4</sub> "	200
SmartVENT <sup>®</sup> Stacker	1540-511	16" X 16"	400
FloodVent <sup>®</sup> Stacker	1540-521	16" X 16"	400

For SI: 1 inch = 25.4 mm; 1 square foot = m<sup>2</sup>

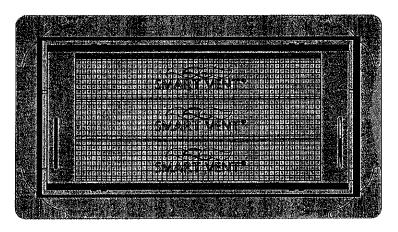


FIGURE 1—SMART VENT: MODEL 1540-510

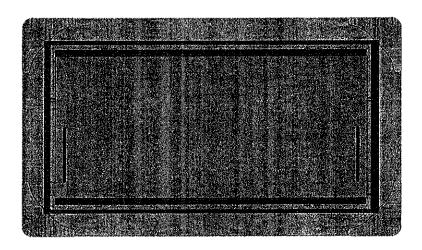


FIGURE 2-SMART VENT MODEL 1540-520

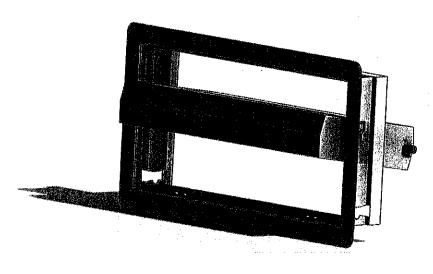


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN