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.

	SECTI	ON A - PROPERTY	NFOR	MATION		FOR INSUF	RANCE COMPANY USE
A1. Building Owner's Name The Soprano's Policy Number:					ber:		
A2. Building Street Add Box No. 208 North Rumson Ave		uding Apt., Unit, Suite	, and/o	r Bldg. No.) or P.O.	Route and	Company N	AIC Number:
City CITY OF MARGAT	E			State New Jersey		ZIP Code 08402	
A3. Property Description Block 419 Lot 19	on (Lot and	d Block Numbers, Tax	Parce	l Number, Legal De	scription, etc.)		
A4. Building Use (e.g.,	Residentia	al, Non-Residential, A	ddition	, Accessory, etc.)	RESIDENTIAL		
A5. Latitude/Longitude:	: Lat. 39.3	3281 L	.ong7	74.5112	Horizontal Datun	n: NAD 1	927 X NAD 1983
A6. Attach at least 2 ph	notographs	s of the building if the	Certific	ate is being used to	o obtain flood insura	ance.	
A7. Building Diagram N	Number	7					
A8. For a building with	a crawlspa	ace or enclosure(s):					
a) Square footage	of crawlsp	pace or enclosure(s)		1,059 sq ft			
b) Number of perm	nanent floo	od openings in the cra	wlspac	e or enclosure(s) w	ithin 1.0 foot above	adjacent gra	ade 8
c) Total net area of	f flood ope	enings in A8.b 1,60	00 s	sq in			
d) Engineered floo	d openings	s? X Yes No					
A9. For a building with an attached garage:							
a) Square footage of attached garageN/A sq ft							
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent gradeN/A							
c) Total net area of	c) Total net area of flood openings in A9.b N/A sq in						
d) Engineered flood openings?							
	SEC	TION B - FLOOD IN	SURA	NCE RATE MAP	(FIRM) INFORMA	TION	
B1. NFIP Community No CITY OF MARGATE		•		B2. County Name ATLANTIC COUN			B3. State New Jersey
B4. Map/Panel B5 Number B5	. Suffix	B6. FIRM Index Date	E	IRM Panel ffective/ evised Date	B8. Flood Zone(s	(Zor	e Flood Elevation(s) ne AO, use Base nd Depth)
345304/0001 C		10/18/1983		/1983	A8**	10**	
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:							
FIS Profile X 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							

## **ELEVATION CERTIFICATE**

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

MPORTANT: In these spaces, copy the corresponding information from Section A. FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route 208 North Rumson Avenue	e and Box No.	Policy Number:	
City State ZIP C CITY OF MARGATE New Jersey 08402		Company NAIC Number	
SECTION C – BUILDING ELEVATION INFORMATI	ON (SURVEY RE	EQUIRED)	
C1. Building elevations are based on: Construction Drawings* Build  *A new Elevation Certificate will be required when construction of the building.  C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE). Complete Items C2.a–h below according to the building diagram specified in Benchmark Utilized: private Vertical Datum: North Indicate elevation datum used for the elevations in items a) through h) below  NGVD 1929 NAVD 1988 Other/Source:  Datum used for building elevations must be the same as that used for the BFE.  a) Top of bottom floor (including basement, crawlspace, or enclosure floor)  b) Top of the next higher floor  c) Bottom of the lowest horizontal structural member (V Zones only)  d) Attached garage (top of slab)  e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)  f) Lowest adjacent (finished) grade next to building (LAG)	ing Under Construg is complete. E), AR, AR/A, AR/ I Item A7. In Puerton NGVD29	Check the measurement used.    X   Finished Construction     X   AR/A1-A30, AR/AH, AR/AO.     O Rico only, enter meters.    Check the measurement used.     X   feet	
<ul><li>g) Highest adjacent (finished) grade next to building (HAG)</li><li>h) Lowest adjacent grade at lowest elevation of deck or stairs, including</li></ul>	8. <u>3</u>	X feet meters meters	
structural support	UTCOT CERTICI	CATION	
SECTION D – SURVEYOR, ENGINEER, OR ARCH This certification is to be signed and sealed by a land surveyor, engineer, or archi I certify that the information on this Certificate represents my best efforts to interpresent may be punishable by fine or imprisonment under 18 U.S. Code, Section Were latitude and longitude in Section A provided by a licensed land surveyor?	itect authorized by ret the data availa on 1001.	law to certify elevation information.	
Certifier's Name Paul M. Koelling, PLS, CFM NJ24GS 04328800  Title Licensed Land Surveyor  Company Name Paul Koelling & Associates, LLC NJ C.O.A. No. 24GA28256300  Address		Place Seal Here	
	ZIP Code 08221		
	Telephone (609) 927-0279		
Copy all pages of this Elevation Certificate and all attachments for (1) community office	cial, (2) insurance a	agent/company, and (3) building owner.	
Comments (including type of equipment and location, per C2(e), if applicable) *A8b.) Smart Vents Model #1540-510 engineered for 200 square inches of net are **B8 & B9.) FEMA Pre-FIRM Zone "AE"Base Flood Elevation 8 ft. (NAVD88) c ***C2a.) enclosure ****C2e.) exterior air unit (elev 17.1)		(NGVD29)	

## **ELEVATION CERTIFICATE**

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

				CE COMPANY USE	
Building Street Address (including Apt., Unit, Suite, an	d/or Bldg. No.) or P.0	D. Route and Box	Policy Number:		
208 North Rumson Avenue					
	State New Jersey	ZIP Code 08402	Company NAIC	Number	
SECTION E – BUILDING EL			OT REQUIRED)		
	E AO AND ZONE A				
For Zones AO and A (without BFE), complete Items E1 complete Sections A, B,and C. For Items E1–E4, use renter meters.					
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).  a) Top of bottom floor (including basement,					
crawlspace, or enclosure) is		feet me	eters 🔲 above or	below the HAG.	
<ul> <li>Top of bottom floor (including basement, crawlspace, or enclosure) is</li> </ul>		feet me	eters 🔲 above or	below the LAG.	
E2. For Building Diagrams 6–9 with permanent flood o	penings provided in	Section A Items 8 and	l/or 9 (see pages 1–	2 of Instructions),	
the next higher floor (elevation C2.b in the diagrams) of the building is		feet me		below the HAG.	
E3. Attached garage (top of slab) is		feet me	eters 🔲 above or	below the HAG.	
E4. Top of platform of machinery and/or equipment servicing the building is			eters  above or	below the HAG.	
E5. Zone AO only: If no flood depth number is availab floodplain management ordinance? Yes	le, is the top of the bo	ottom floor elevated in	accordance with the	e community's	
SECTION F - PROPERTY OW	NER (OR OWNER'S	REPRESENTATIVE)	CERTIFICATION		
The property owner or owner's authorized representati			PS PART WAVE TAXABLE TO SEE	FEMA-issued or	
community-issued BFE) or Zone AO must sign here. T	he statements in Sec	ctions A, B, and E are	correct to the best of	of my knowledge.	
Property Owner or Owner's Authorized Representative's Name					
Address	City		State	ZIP Code	
Signature	Date	2	Telephone		
Signature	Date	====	Telephone		
Comments					
*					
		043			
			53		
	9				
¥	4				
			☐ Check	here if attachments.	

## **ELEVATION CERTIFICATE**

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

IMPORTANT: In these spaces, copy the corre	esponding information	from Section A.	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, St 208 North Rumson Avenue	uite, and/or Bldg. No.) or l	P.O. Route and Box No.	Policy Number:		
CITY OF MARGATE	State New Jersey	ZIP Code 08402	Company NAIC Number		
SECTION	ON G - COMMUNITY IN	FORMATION (OPTIONAL	_)		
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 floodplain e applicable item(s) and s	management ordinance can complete sign below. Check the measurement		
G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)					
G2. A community official completed Section Zone AO.	on E for a building locate	ed in Zone A (without a FE	EMA-issued or community-issued BFE)		
G3. The following information (Items G4-	-G10) is provided for com	nmunity floodplain manag	ement purposes.		
G4. Permit Number	G5. Date Permit Issue	ed G6	3. Date Certificate of Compliance/Occupancy Issued		
G7. This permit has been issued for:	New Construction 🔲	Substantial Improvement			
G8. Elevation of as-built lowest floor (including of the building:	g basement)	f	eet		
G9. BFE or (in Zone AO) depth of flooding at	the building site:	f	eet		
G10. Community's design flood elevation:			eet  meters Datum		
	I GALANTINO	Title CFM			
Community Name ( MAN ( )	75	Telephone  607 - 827	-1912		
Signature		Telephone  608 -827  Date  8/20	118		
Comments (including type of equipment and lo	cation, per C2(e), if appli	icable)			
			Check here if attachments.		

# **Building Photographs**

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg.) No. or P.O. Route and Box No.

208 North Rumson Avenue

City
State
New Jersey

State
New Jersey

State
New Jersey

State
SIP Code
08402

Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two 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." If submitting more photographs than will fit on this page, use the Continuation Page on the reverse





Front View - Date of Photograph: (See Photo Stamp)

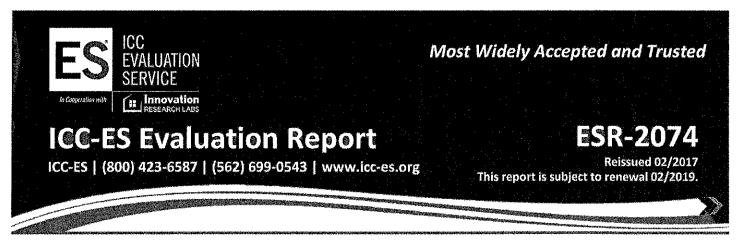
Rear View - Date of Photograph: (See Photo Stamp)





Right Side View – Date of Photograph: (See Photo Stamp)

Left Side View – Date of Photograph: (See Photo Stamp)



**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

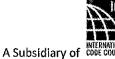
### **EVALUATION SUBJECT:**

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)<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® 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<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®	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® 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>

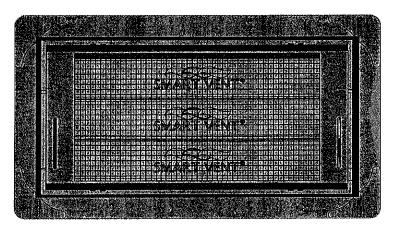


FIGURE 1—SMART VENT: MODEL 1540-510

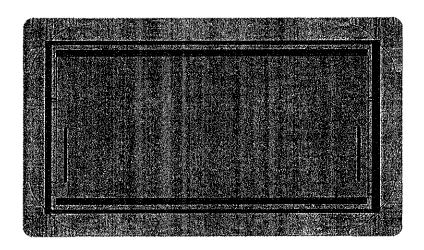


FIGURE 2-SMART VENT MODEL 1540-520

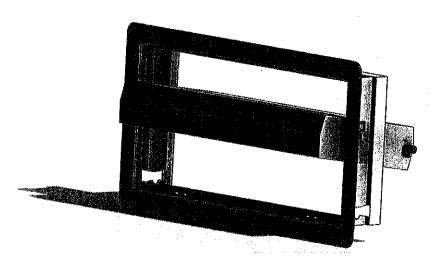


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN