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

OMB No. 1660-0008

Expiration Date: November 30, 2022

## **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.

SECTION A – PROPERTY INFORMATION	FOR INSURANCE COMPANY USE						
A1. Building Owner's Name	Policy Number:						
The Calcara's							
<ul> <li>A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route Box No.</li> <li>23 N. Iroquois Avenue</li> </ul>	and Company NAIC Number:						
City State	ZIP Code						
City of Margate New Jersey	08402						
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Descripti Block 210.02 Lot 4	A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Block 210.02 Lot 4						
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Res	dential						
A5. Latitude/Longitude: Lat. 39.3297 Long74.5035 Hor	zontal Datum: NAD 1927 X NAD 1983						
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain	n flood insurance.						
A7. Building Diagram Number7							
A8. For a building with a crawlspace or enclosure(s):							
a) Square footage of crawlspace or enclosure(s) sq f	t						
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.	0 foot above adjacent grade 2						
c) Total net area of flood openings in A8.b sq in							
d) Engineered flood openings? X Yes No							
A9. For a building with an attached garage:							
a) Square footage of attached garage 475.00 sq ft							
b) Number of permanent flood openings in the attached garage within 1.0 foot above	e adjacent grade 3						
c) Total net area of flood openings in A9.b 600.00 sq in							
d) Engineered flood openings?   X Yes   No							
, , , , , , , , , , , , , , , , , , , ,							
SECTION B – FLOOD INSURANCE RATE MAP (FIRM	) INFORMATION						
B1. NFIP Community Name & Community Number  CITY OF MARGATE & 345304  B2. County Name  ATLANTIC COUNTY	B3. State New Jersey						
B4. Map/Panel Number B5. Suffix B6. FIRM Index Date B7. FIRM Panel Effective/ Revised Date B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth)						
34001C0434 F 08-28-2018 08-28-2018 AE	9						
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: 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 DPA							

# ELEVATION CERTIFICATE OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In these's	FOR INSURANCE COMPANY USE						
23 N. Iroquois Avenue	(including Apt., Unit, Suite, an		•	Policy	Number:		
City City of Margate		•	P Code 402	Compa	any NAIC I	Number	
	SECTION C - BUILDING		TION (SUDVEY DE	OUIDE	=D)		
				····			
C1. Building elevations  *A new Elevation C	s are based on:   Constru Certificate will be required whe	•	ıilding Under Constru ding is complete	iction*	X Finisi	ned Construction	
C2. Elevations – Zones	s A1–A30, AE, AH, A (with BF 2.a–h below according to the l	F). VF. V1–V30. V (with I	BFE), AR, AR/A, AR/ I in Item A7. In Puert	AE, AR, o Rico o	/A1–A30, / only, enter	AR/AH, AR/AO. meters.	
Indicate elevation d	latum used for the elevations	in items a) through h) bel	ow.				
☐ NGVD 19	929 🛛 NAVD 1988 🔲 Oth	er/Source:					
Datum used for bui	lding elevations must be the s	same as that used for the	BFE.	Che	eck the me	asurement used.	
a) Top of bottom fl	oor (including basement, crav	vlspace, or enclosure floo	or)	6.0	⊠ feet	meters	
b) Top of the next			,	13.0	X feet	meters	
	west horizontal structural mer	nber (V Zones only)		N/A	X feet	meters	
d) Attached garage				6.0	X feet	meters	
e) Lowest elevatio	n of machinery or equipment of equipment and location in C	servicing the building		13.0	X feet	☐ meters	
	t (finished) grade next to build	· ·		5.2	X feet	— ☐ meters	
•	nt (finished) grade next to built	<b>3</b> \		6.3	X feet	☐ meters	
h) Lowest adjacent	t grade at lowest elevation of	- , ,			_		
structural suppo				<u>5.4</u>	× feet	meters	
	SECTION D - SURVEYO						
This certification is to be I certify that the informat statement may be punis	e signed and sealed by a land tion on this Certificate represe thable by fine or imprisonmen	surveyor, engineer, or ar ents my best efforts to inte t under 18 U.S. Code, Se	chitect authorized by erpret the data availa ction 1001.	law to o ble. I un	certify eleve ederstand t	ation information. hat any false	
Were latitude and longite	ude in Section A provided by	a licensed land surveyor?	Yes No	$\mathbf{X}$	Check here	e if attachments.	
Certifier's Name Paul M. Koelling, PLS, C	CFM	License Number NJ24GS 04328800					
Title				1			
Professional Land Surve	eyor						
Company Name Paul Koelling & Associates NJ C.O.A. 24GA28256300					Seal		
· ·							
Address	any DUKn	unuou@aamaaat nat				ere	
Address 2161 Shore Road	sox-PHKsı	urvey@comcast.net	710.0-1-			ere	
Address	sox-PHKsı	urvey@comcast.net State New Jersey	ZIP Code 08221			ere	
Address 2161 Shore Road City	sox-PHKsı	State		Ext.		ers	
Address 2161 Shore Road  City Linwood  Signature	sox-PHKsu vation Certificate and all attach	State New Jersey  Date  5-22-20	08221 Telephone (609) 927-0279				
Address 2161 Shore Road  City Linwood  Signature  Copy all pages of this Electory  Comments (including type)		State New Jersey  Date  5-22-20  Iments for (1) community of per C2(e), if applicable)	08221 Telephone (609) 927-0279 official, (2) insurance a				
Address 2161 Shore Road  City Linwood  Signature  Copy all pages of this Electory  Comments (including type)	vation Certificate and all attache of equipment and location, el #1540-520 engineered for	State New Jersey  Date  5-22-20  Iments for (1) community of per C2(e), if applicable)	08221 Telephone (609) 927-0279 official, (2) insurance a				
Address 2161 Shore Road  City Linwood  Signature  Copy all pages of this Electory  Comments (including typ  *A8b.) Smart Vents Mode	vation Certificate and all attache of equipment and location, el #1540-520 engineered for	State New Jersey  Date  5-22-20  Iments for (1) community of per C2(e), if applicable)	08221 Telephone (609) 927-0279 official, (2) insurance a				

## ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corresponding	information from Section	n A.	FOR INSURANCE (	COMPANY USE		
Building Street Address (including Apt., Unit, Suite, and/or 23 N. Iroquois Avenue	Bldg. No.) or P.O. Route	and Box No.	Policy Number:			
City Stat	e ZIP Co Jersey 08402	de	Company NAIC Nur	nber		
SECTION E – BUILDING ELEV FOR ZONE A	ATION INFORMATION (		REQUIRED)			
For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B,and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter 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).						
<ul> <li>a) Top of bottom floor (including basement, crawlspace, or enclosure) is</li> <li>b) Top of bottom floor (including basement,</li> </ul>		] feet 🗌 meter	s above or	below the HAG.		
crawlspace, or enclosure) is		feet  meter				
E2. For Building Diagrams 6–9 with permanent flood open the next higher floor (elevation C2.b in the diagrams) of the building is		\ Items 8 and/or ☐ feet ☐ meter		,		
E3. Attached garage (top of slab) is		feet meter		pelow the HAG.		
E4. Top of platform of machinery and/or equipment servicing the building is		]feet	s ☐ above or ☐ b	pelow the HAG.		
E5. Zone AO only: If no flood depth number is available, is floodplain management ordinance?   Yes No						
SECTION F – PROPERTY OWNER	(OR OWNER'S REPRES	SENTATIVE) CE	RTIFICATION			
The property owner or owner's authorized representative w community-issued BFE) or Zone AO must sign here. The s	ho completes Sections A tatements in Sections A, I	B, and E for Zo B, and E are corr	ne A (without a FEM <i>I</i> ect to the best of my	A-issued or knowledge.		
Property Owner or Owner's Authorized Representative's N	ame					
Address	City	Sta	ite Z			
				IP Code		
Signature	Date	Tel	ephone	IP Code		
Signature Comments	Date	Tel	ephone	IP Code		
	Date	Tel	ephone	IP Code		
	Date	Tel	ephone	IP Code		
	Date	Tel	ephone	IP Code		
	Date	Tel	ephone	IP Code		
	Date	Tel	ephone	IP Code		
	Date	Tel	ephone	IP Code		
	Date	Tel	ephone	IP Code		
	Date	Tel	ephone	IP Code		

### **ELEVATION CERTIFICATE**

OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the correst	FOR INSURANCE COMPANY USE				
Building Street Address (including Apt., Unit, Suite 23 N. Iroquois Avenue	Policy Number:				
City City of Margate	State New Jersey	ZIP Code 08402	Company NAIC Number		
SECTION	G - COMMUNITY INFOR	MATION (OPTIONAL)			
The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.					
G1. The information in Section C was taken engineer, or architect who is authorized data in the Comments area below.)	engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation				
G2. A community official completed Section or Zone AO.	E for a building located in	Zone A (without a FEM	A-issued or community-issued BFE)		
G3. The following information (Items G4–G1	10) is provided for commun	ity floodplain managem	ent purposes.		
G4. Permit Number G	95. Date Permit Issued	G6. [	Date Certificate of Compliance/Occupancy Issued		
G7. This permit has been issued for:	New Construction  Subs	tantial Improvement			
G8. Elevation of as-built lowest floor (including be of the building:	asement) —————	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	Title		= n,		
Community Name  MAn	Tele CATE	phone 607 822	1914		
Signature 1. Cl	Date	/	7/2020		
Comments (including type of equipment and locati	on, per C2(e), if applicable	)			
			7		
			Check here if attachments.		



**Most Widely Accepted and Trusted** 

# **ICC-ES Evaluation Report**

ESR-2074

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Reissued 02/2019
This report is subject to renewal 02/2021.

**DIVISION: 08 00 00—OPENINGS** 

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

#### REPORT HOLDER:

### SMART VENT PRODUCTS, INC.

#### **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
FLOOD VENT SEALING KIT #1540-526



"2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence"

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## **ICC-ES Evaluation Report**

**ESR-2074** 

Reissued February 2019 This report is subject to renewal February 2021.

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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:

SMART VENT PRODUCTS, INC.

**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 FLOOD VENT SEALING KIT #1540-526

#### 1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015, 2012, 2009 and 2006 International Building Code® (IBC)
- 2018, 2015, 2012, 2009 and 2006 International Residential Code® (IRC)
- 2018 International Energy Conservation Code® (IECC)
- 2013 Abu Dhabi International Building Code (ADIBC)<sup>†</sup>

 $\ensuremath{^{\uparrow}}$  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.

#### 3.4 Flood Vent Sealing Kit:

The Flood Vent Sealing Kit Model #1540-526 is used with SmartVENT® Model #1540-520. It is a Homasote 440 Sound Barrier® (ESR-1374) insert with 21 - 2-inch-by-2-inch (51 mm x 51 mm) squares cut in it. See Figure 4.

#### 4.0 DESIGN AND INSTALLATION

#### 4.1 SmartVENT® and FloodVENT®:

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.

#### 4.2 Flood Vent Sealing Kit

The Flood Vent Sealing Kit Model 1540-526 is used in conjunction with FloodVENT® Model #1540-520. When installed and tested in accordance with ASTM E283, the FV and Flood Vent Sealing Kit assembly have an air leakage rate of less than 0.2 cubic feet per minute per lineal foot (18.56 l/min per lineal meter) at a pressure differential of 1 pound per square foot (50 Pa) based on 12.58 lineal feet (3.8 lineal meters) contained by the Flood Vent Sealing Kit.

#### 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

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015 (editorially revised October 2017).
- 6.2 Test report on air infiltration in accordance with ASTM E283.

#### 7.0 IDENTIFICATION

- 7.1 The Smart VENT® models and the Flood Vent Sealing Kit 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).
- 7.2 The report holder's contact information is the following:

SMART VENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (877) 441-8368 www.smartvent.com info@smartvent.com

TABL	E 1-	MODE	L SIZES
------	------	------	---------

MODEL NAME	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
FloodVENT®	1540-520	$15^3/_4$ " $\times 7^3/_4$ "	200
- SmartVENT®	1540-510	15 <sup>3</sup> / <sub>4</sub> " × 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 =  $m^2$ 

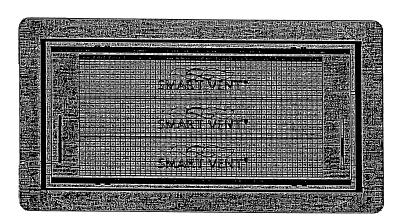


FIGURE 1-SMART VENT: MODEL 1540-510

## **Building Photographs**

		For Insurance Company Use:		
	Building Street Address (including Ap 23 N. Iroquois Avenue	Policy Number		
1	City	Company NAIC Number		
	Margate	NJ	08402	

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: (03-24-2020)

Rear View – Date of Photograph: (03-24-2020)





Right Side View – Date of Photograph: (03-24-2020)

Left Side View – Date of Photograph: (03-24-2020)