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 owner.

	SECT	ION A - PROPERTY	NFOR	MATION		FOR INSUF	RANCE COMPANY USE
A1. Building Owne	r's Name					Policy Num	oer:
The Delany's		<u>.</u>					
A2. Building Street Box No.	Address (inc	luding Apt., Unit, Suite	, and/o	r Bldg. No.) or P.O.	Route and	Company N	AIC Number:
#203 Lafayette Ave	nue						
City				State	٠	ZIP Code	
CITY OF VENT				New Jersey		08406	
A3. Property Desc Block 185 Lot 2	ription (Lot ar	nd Block Numbers, Tax	Parce	l Number, Legal De	scription, etc.)		
A4. Building Use (e.g., Residen	tial, Non-Residential, A	ddition	, Accessory, etc.)	RESIDENTIAL		
A5. Latitude/Longil	ude: Lat. <u>39</u>	.3377	_ong. 0	74.4917	Horizontal Datur	n: 🔲 NAD 1	927 🗵 NAD 1983
A6. Attach at least	2 photograph	ns of the building if the	Certific	cate is being used to	obtain flood insur	ance.	
A7. Building Diagra	m Number	7					
A8. For a building	with a crawlsp	pace or enclosure(s):					
a) Square foot	age of crawls	space or enclosure(s)		1,351 sq ft			
b) Number of p	permanent flo	od openings in the cra	wispac	e or enclosure(s) w	ithin 1.0 foot above	adjacent gr	ade10
c) Total net are	ea of flood op	enings in A8.b 2,00	00 <u>s</u>	sq in			
d) Engineered	flood openin	gs? 🗵 Yes 🗌 No)				
A9. For a building v	A9. For a building with an attached garage:						
a) Square foot	a) Square footage of attached garage 0 sq ft						
b) Number of p	permanent flo	od openings in the atta	ached (garage within 1.0 foo	ot above adjacent	grade	0
c) Total net are	ea of flood op	enings in A9.b	D	sq in			
d) Engineered flood openings? Yes No							
-,	a) Engineered heed openinge.						
-	SE	CTION B - FLOOD IN	SURA	NCE RATE MAP	(FIRM) INFORMA	TION	
B1. NFIP Communi	•	=		B2. County Name			B3. State
CITY OF VENTNO	R & 3453	26		ATLANTIC COUN	TY		New Jersey
B4, Map/Panel Number	B5. Suffix	B6. FIRM Index Date	E	IRM Panel ffective/	B8. Flood Zone(s	(Zo:	se Flood Elevation(s) ne AO, use Base
345326/0001	В	06/18/1971		evised Date 5/1983	A8**	10**	od Depth)
B10. Indicate the s	ource of the B	Base Flood Elevation (I	3FE) d	ata or base flood de	epth entered in Iten	n B9:	
		Community Determ					
B11. Indicate eleva	tion datum us	sed for BFE in Item B9	: 🗵 N	GVD 1929 🔲 NA	.VD 1988 ☐ Ot	her/Source:	
B12. Is the building	located in a	Coastal Barrier Resou	rces Sy	ystem (CBRS) area	or Otherwise Prote	ected Area (0	DPA)? ☐ Yes ⊠ No
Designation D				☐ OPA			
J			-				

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

IMPORTANT: In these spaces, copy the corresponding information from Secti	on A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route #203 Lafayette Avenue	and Box No.	Policy Number:
City State ZIP C	ode	Company NAIC Number
CITY OF VENTNOR New Jersey 08406		
SECTION C - BUILDING ELEVATION INFORMATION		
C1. Building elevations are based on: Construction Drawings* Buildi		uction* X Finished Construction
*A new Elevation Certificate will be required when construction of the building	j is complete.	ADIAL AGG ADIAL ADIAG
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:	TIGHT AU. III T GOT	to Rico only, enter meters.
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 BF	E.	Check the measurement used.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	<u>6, 7</u>	X feet meters
b) Top of the next higher floor	12, 9	🔀 feet 🗌 meters
c) Bottom of the lowest horizontal structural member (V Zones only)	<u>N/A</u> .	X feet meters
d) Attached garage (top of slab)	N/A	
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	10.8	🔀 feet 🗌 meters
f) Lowest adjacent (finished) grade next to building (LAG)	<u> </u>	X feet meters
g) Highest adjacent (finished) grade next to building (HAG)	<u>7</u> . <u>1</u>	X feet meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	<u>6</u> , <u>3</u>	X feet meters
SECTION D – SURVEYOR, ENGINEER, OR ARC	HITECT CERTII	FICATION
This certification is to be signed and sealed by a land surveyor, engineer, or archivertify that the information on this Certificate represents my best efforts to interpstatement may be punishable by fine or imprisonment under 18 U.S. Code, Sect.	ion 1001.	
Were latitude and longitude in Section A provided by a licensed land surveyor?	⊠Yes □ No	○ Check here if attachments.
Certifier's Name License Number Paul M. Koelling, PLS, CFM NJ24GS 04328800		
Title Licensed Land Surveyor		Direct
Company Name Paul Koelling & Associates, LLC NJ C.O.A. No. 24GA28256300		Place Seal Here
Address 2161 Shore Road		Tiero
City State Linwood New Jersey	ZIP Code 08221	
Signature Date 5-23-19	Telephone (609) 927-0279	
Copy all pages of this Elevation Certificate and all attachments for (1) community of	ficial, (2) insuranc	e 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 a		
**B8 & B9.) FEMA Pre-FIRM Zone "AE"Base Flood Elevation 8 ft. (NAVD88)	converted = 9.3	ft. (NGVD29)
tttoo. \ a-rudangee englesure		
C2a.) crawlspace enclosure *C2e.) exterior air unit (elev 23.6)ductwork elev (elev 10.8)		

ELEVATION CERTIFICATE

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

IMPO	ORTANT: In these spaces, copy the c	orresponding information fr	om Section A.	FOR INSURANCE COMPANY USE
Build	ling Street Address (including Apt., Uni 3 Lafayette Avenue			Policy Number:
City	OF VENTNOR	State New Jersey	ZIP Code 08406	Company NAIC Number
	SECTION E - BU	ILDING ELEVATION INFOR FOR ZONE AO AND ZONE	MATION (SURVEY NO A (WITHOUT BFE)	T REQUIRED)
com	Zones AO and A (without BFE), comple plete Sections A, B,and C. For Items E r meters.	ete Items E1–E5. If the Certific 1–E4, use natural grade, if ava	ate is intended to suppor allable. Check the measu	a LOMA or LOMR-F request, rement used. In Puerto Rico only,
E1.	Provide elevation information for the fo the highest adjacent grade (HAG) and a) Top of bottom floor (including base	the lowest adjacent grade (LA	iate boxes to show wheth .G).	ner the elevation is above or below
	crawlspace, or enclosure) is		feet met	ers 🔲 above or 🔲 below the HAG.
	 Top of bottom floor (including baser crawispace, or enclosure) is 	ment, ·	feet me	ters 🔲 above or 🗌 below the LAG.
	For Building Diagrams 6-9 with perma		in Section 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			ters ☐ above or ☐ below the HAG.
E3.	Attached garage (top of slab) is		feet	ters 🔲 above or 🔲 below the HAG.
E4.	Top of platform of machinery and/or ed servicing the building is	quipment	feet _ me	ters above or below the HAG.
E5.	Zone AO only: If no flood depth numbe floodplain management ordinance?	er is available, is the top of the	bottom floor elevated in vn. The local official mu	accordance with the community's st certify this information in Section G.
	SECTION F - PROF	PERTY OWNER (OR OWNER	'S REPRESENTATIVE)	CERTIFICATION
The	property owner or owner's authorized r munity-issued BFE) or Zone AO must s	enrecentative who completes	Sections A. B. and F for	Zone A (without a FEMA-issued or
	perty Owner or Owner's Authorized Rep			
Add	ress	C	ity	State ZIP Code
Sigr	nature	D	ate	Telephone
Con	nments			

ELEVATION CERTIFICATE

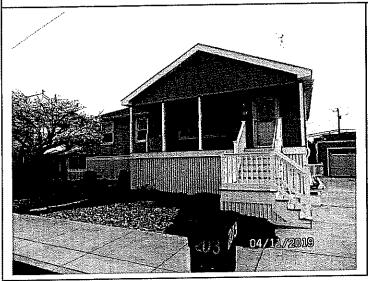
OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corre	esponding information fr	om Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, St. #203 Lafayette Avenue	uite, and/or Bldg. No.) or P	.O. Route and Box No.	Policy Number:
City CITY OF VENTNOR	State New Jersey	ZIP Code 08406	Company NAIC Number
SECTIO	ON G - COMMUNITY INFO	ORMATION (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	n Certificate. Complete the iter meters.	applicable item(s) and si	gn below. Check the measurement
G1. The information in Section C was tak engineer, or architect who is authoriz data in the Comments area below.)	ted by law to certify elevate	on information. (Indicate	the source and date of the elevation
or Zone AO.			MA-issued or community-issued BFE)
G3. The following information (Items G4-	-G10) is provided for comn		
G4. Permit Number	G5. Date Permit Issued	G6	. Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:	☐ New Construction ☐ So	ubstantial Improvement	
G8. Elevation of as-built lowest floor (includin of the building:	g basement)		eet meters Datum
G9. BFE or (in Zone AO) depth of flooding at	the building site:	fe	eet meters Datum
G10. Community's design flood elevation:			eet meters Datum
Local Official's Name		Fitle C-2.	<i>٨</i>
Community Name		Felephone	i ይጉን-ጊզይገ
Signature		<u> </u>	-4-19
Comments (including type of equipment and lo	ocation, per C2(e), if applic	able)	
			Check here if attachments.

Building Photographs

	See Instructions for Ite	-	For Insurance Company Use:
Building Street Address (inc #203 Lafayette Park	luding Apt., Unit, Suite, and/or Bldg.) No. or P.0	D. Route and Box No.	Policy Number
City Ventnor	State New Jersey	ZIP Code 08406	Company NAIC Number

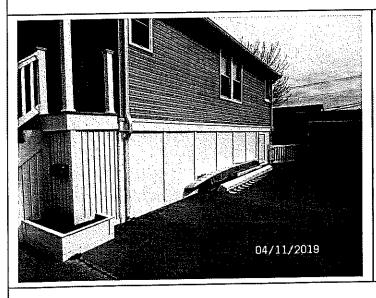
If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two building photographs below according to the instructions for Item A6. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." If submitting more photographs than will fit on this page, use the Continuation Page on the reverse.

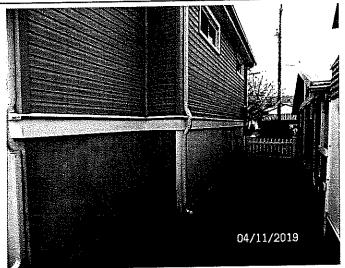




Front View - Date of Photograph: (See Photo Stamp)

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)



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ICC-ES Evaluation Report

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ESR-2074

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

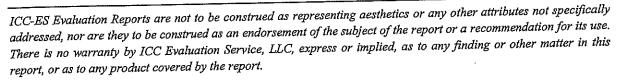
FLOOD VENT SEALING KIT #1540-526



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

A Subsidiary of









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)[†]

[†]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.

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

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
FloodVENT®	1540-510	$15^3/4'' \times 7^3/4''$	200
FloodVENT® Overhead Door	1540-524	15 ³ / ₄ " × 7 ³ / ₄ "	200
SmartVENT® Overhead Door	1540-514	$15^3/4'' \times 7^3/4''$. 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

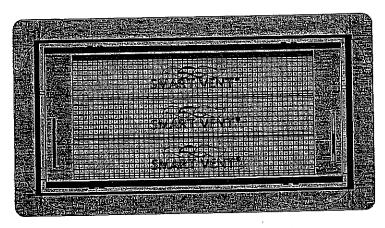


FIGURE 1—SMART VENT: MODEL 1540-510