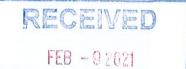
U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program



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

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-93

CONSTRUCTION OFFICE
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

	SEC	TION A - PROPERTY	INFOR	MATION		FOR INSU	RANCE COMPANY USE
A1. Building Owner Repella, Laurie J Tr	's Name					Policy Nur	
A2. Building Street Box No. 141 88th Street	Address (inc	cluding Apt., Unit, Suit	te, and/or	r Bldg. No.) o	or P.O. Route and	Company	NAIC Number:
City Stone Harbor				State New Jer	The state of the s	ZIP Code 08247	
A3. Property Descr Block 88.02 Lots 36		nd Block Numbers, Ta	ax Parcel	Number, Le	gal Description, e	tc.)	
A4. Building Use (e	.g., Residen	itial, Non-Residential,	Addition	Accessory,	etc.) Resident	ial	
A5. Latitude/Longito	ude: Lat. N	39°03'27.53"	Long. W	V 074°45'10.5	6" Horizonta	al Datum: 🗌 NAD	1927 × NAD 1983
A6. Attach at least	2 photograp	hs of the building if the	e Certific	ate is being u	used to obtain floo	od insurance.	
A7. Building Diagra	m Number	8					
A8. For a building w	vith a crawls	pace or enclosure(s):					
a) Square foots	age of crawl	space or enclosure(s)		- 1	1371.00 sq ft		
b) Number of p	ermanent flo	ood openings in the cr	awlspace	e or enclosur	e(s) within 1.0 foo	ot above adjacent g	rade 7
c) Total net are	a of flood of	penings in A8.b	1	400.00 sq ir	n		
d) Engineered	flood openir	ngs? 🛛 Yes 🗌 N	No				
A9. For a building w	ith an attach						
		ned garage		N/A sq fi			
		Same of the same					
		ood openings in the at				ljacent grade N/A	
500 1000 T AV				N/A sq	in		
d) Engineered t	lood openin	gs? Yes 🗵 N	40				
	THE RESERVE AND ADDRESS OF THE PARTY OF THE	CTION B - FLOOD	INSURA	NCE RATE	MAP (FIRM) IN	FORMATION	
B1. NFIP Communit				B2. County	Name		B3. State
Borough of Stone H		500 XX 50		Cape May			New Jersey
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	RM Panel ective/ vised Date	B8. Flood Zone(s)	B9. Base Flood (Zone AO, u	Elevation(s) se Base Flood Depth)
34009C242	F	10-05-2017	10-05-2		AE	8	
the state of the s		Base Flood Elevation Community Deter			irce.	d in Item B9:	
B11. Indicate eleva	tion datum ι	used for BFE in Item B	39: 🔲 N	GVD 1929	NAVD 1988	Other/Source	·:
B12. Is the building	located in a	Coastal Barrier Resc	ources Sv	vstem (CBRS	area or Otherwi	ise Protected Area	(OPA)? ☐ Yes ⊠ No
Designation D		<u> 2</u>		OPA	, area or otherwi	se Protected Alea	(OFA)! Tes X No
3			OBITO	U OF A			

ELEVATION CERTIFICATE

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

	the corresponding information from Se		FOR	NSURANC	E COMPANY USE	
141 88th Street	, Unit, Suite, and/or Bldg. No.) or P.O. Ro	oute and Box No.	Policy	Number:		
City Stone Harbor		Code 247	Comp	any NAIC I	Number	
SECTION	C - BUILDING ELEVATION INFORMA	ATION (SURVEY R	EQUIR	ED)		
C2. Elevations - Zones A1-A30, AE	coording to the building diagram specified	BFF) AR ARIA AR	AF AR	R/A1_A30	hed Construction AR/AH, AR/AO. meters.	
Benchmark Utilized: PID# DP15	19 Vertical Datum	n: NAVD 1988				
☐ NGVD 1929 ⊠ NAV	r the elevations in items a) through h) bel D 1988 Other/Source: ns must be the same as that used for the					
			Ch	eck the me	easurement used.	
 a) Top of bottom floor (including 	basement, crawlspace, or enclosure floo	or)	7.8	\times feet	meters	
b) Top of the next higher floor			11.2	× feet	meters	
 c) Bottom of the lowest horizont 	al structural member (V Zones only)		N/A	\times feet	meters	
d) Attached garage (top of slab)		-	N/A	\times feet	meters	
 e) Lowest elevation of machiner (Describe type of equipment) 	y or equipment servicing the building and location in Comments)		11.4	⊠ feet	meters	
f) Lowest adjacent (finished) gr	ade next to building (LAG)		6.7	× feet	meters	
g) Highest adjacent (finished) gr	ade next to building (HAG)		8.2	× feet	meters	
 h) Lowest adjacent grade at low structural support 	rest elevation of deck or stairs, including		6.9	⊠ feet	meters	
SECTION	D - SURVEYOR, ENGINEER, OR AF	CHITECT CERTIF	ICATIO	N		
This certification is to be signed and a certify that the information on this Co	sealed by a land surveyor, engineer, or an ertificate represents my best efforts to into or imprisonment under 18 U.S. Code, Se	chitect authorized b	y law to	cortifu alas	vation information. that any false	
Were latitude and longitude in Section	n A provided by a licensed land surveyor	? ⊠Yes □ No	\times	Check her	e if attachments.	
Certifier's Name Steven C. Woodrow	License Number 27514					
Title						
Professional Land Surveyor				p	lace	
	Company Name Dante Guzzi Engineering Associates, LLC			Seal		
Address 418 Stokes Road				-	lere	
City Medford	State New Jersey	ZIP Code 08055				
Signature Steve C. U.	Date 01-18-2021	Telephone (609) 654-4440	Ext.			
Copy all pages of this Elevation Certific	ate and all attachments for (1) community	official, (2) insurance	agent/co	ompany, an	d (3) building owner	
Comments (including type of equipme The lowest equipment visible at the tir Model #1540-510 certified to provide	ent and location, per C2(e), if applicable) me of the Survey was the HVAC unit loca 200 SF of flood protection each.	ted outside of the bl	dg. All v	ents are "S	SMART VENT"	
DGEA Proj# C-19-308						

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding	ng information from Sec	ction A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/o 141 88th Street	or Bldg. No.) or P.O. Rou	ite and Box No.	Policy Number:
	tate ZIP ew Jersey 082	Code 47	Company NAIC Number
SECTION E - BUILDING ELE FOR ZONE	VATION INFORMATIO AO AND ZONE A (WIT	N (SURVEY NOT THOUT BFE)	REQUIRED)
For Zones AO and A (without BFE), complete Items E1–complete Sections A, B,and C. For Items E1–E4, use na enter meters.	E5. If the Certificate is in tural grade, if available.	tended to support a Check the measure	LOMA or LOMR-F request, ment used. In Puerto Rico only,
E1. Provide elevation information for the following and of the highest adjacent grade (HAG) and the lowest grade (HAG) a	check the appropriate box djacent grade (LAG).	kes to show whethe	r the elevation is above or below
 a) Top of bottom floor (including basement, crawlspace, or enclosure) is b) Top of bottom floor (including basement, 		feet meter	rs above or below the HAG.
crawlspace, or enclosure) is		feet meter	_
E2. For Building Diagrams 6–9 with permanent flood op the next higher floor (elevation C2.b in the diagrams) of the building is	enings provided in Section	on A Items 8 and/or	
E3. Attached garage (top of slab) is		☐ feet ☐ meter	
E4. Top of platform of machinery and/or equipment servicing the building is		feet meter	rs 🔲 above or 🗎 below the HAG.
E5. Zone AO only: If no flood depth number is available floodplain management ordinance? Yes	i, is the top of the bottom No Unknown. The	floor elevated in ac local official must	cordance with the community's certify this information in Section G.
SECTION F - PROPERTY OWN	ER (OR OWNER'S REP	RESENTATIVE) CI	ERTIFICATION
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	who completes Section e statements in Sections	s A, B, and E for Zo A, B, and E are cor	one A (without a FEMA-issued or rect to the best of my knowledge.
Property Owner or Owner's Authorized Representative's	Name		
Address	City	St	ate ZIP Code
Signature	Date	Те	elephone
Comments			<u> </u>

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corre			FOR INSURANCE COMPANY USE				
Building Street Address (including Apt., Unit, St. 141 88th Street	iite, and/or Bldg. No.) or P.C). Route and Box No.	Policy Number:				
City Stone Harbor	State New Jersey	ZIP Code 08247	Company NAIC Number				
SECTIO	N G - COMMUNITY INFOR	RMATION (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	dinance to administer the co Certificate. Complete the ap	mmunity's floodplain ma	nagement ordinance can complete to below. Check the measurement				
G1. A The information in Section C was take engineer, or architect who is authorized data in the Comments area below.)	en from other documentation ed by law to certify elevation	n that has been signed an i information. (Indicate th	nd sealed by a licensed surveyor, le source and date of the elevation				
G2. A community official completed Section Zone AO.	on E for a building located in	n Zone A (without a FEM/	A-issued or community-issued BFE)				
G3. The following information (Items G4–G10) is provided for community floodplain management purposes.							
G4. Permit Number	G5. Date Permit Issued		Date Certificate of Compliance/Occupancy Issued				
20-113	03/19/20	C	18/21				
G7. This permit has been issued for:	New Construction Sub	stantial Improvement	,				
G8. Elevation of as-built lowest floor (including of the building:	p basement)) feet	meters Datum NAVD 88				
G9. BFE or (in Zone AO) depth of flooding at t			meters Datum NAVD 88				
G10. Community's design flood elevation:	Hyber of BFE	7+2 or 11 19 feet	meters Datum NAVD 88				
Local Official's Name	Title						
Raymond Poudrice	Construction	Official / Fhod P	lain Manager				
C S - // / -	<i>(</i>)	•					
Stone Harbor	(609) 368.	18/9					
Signature Comments (including type of equipment and loc	2/18/2	.1					
Comments (including type of equipment and loc	ation, per C2(e), if applicable	e)					
			Charleboar Martin				
			Check here if attachments.				

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

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

IMPORTANT: In these spaces, copy the corresponding information from Section A.

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

141 88th Street

City
State
Stone Harbor

State
New Jersey

08247

FOR INSURANCE COMPANY USE

Company NAIC Number:

Company NAIC Number

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 VIEW (01-12-21)

Clear Photo One

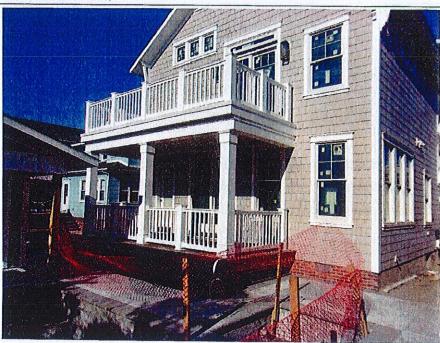


Photo Two

Photo Two Caption REAR VIEW (01-12-21)

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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

IMPORTANT: In these spaces, co	opy 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 and Box No. 141 88th Street			Policy Number:	
City	State	ZIP Code	Company NAIC Number	
Stone Harbor	New Jersey	08247		

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.



Photo Three

Photo Three Caption RIGHT SIDE VIEW (01-12-21)

Clear Photo Three



Photo Four Caption LEFT SIDE VIEW (01-12-21)

Clear Photo Four



ICC-ES Evaluation Report

ESR-2074

Reissued February 2019

This report is subject to renewal February 2021.

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:

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)[†]

¹The 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/mln 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 sultable 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.smartyent.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
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 = m^2

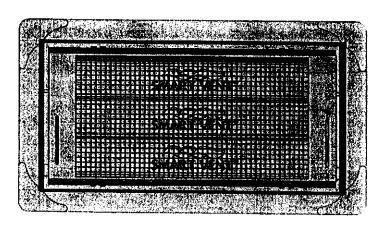


FIGURE 1-SMART VENT: MODEL 1540-510