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

APR 05 2020

a man the Rose I W then Roll

OMB No. 1660-0008

Expiration Date: November 30, 2018

Important: Eollow 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.

SEC	TION A - PROPERTY	INFORM	MATION		FOR INSURA	ANCE COMPANY USE
A1. Building Owner's Name Matthew Ricketts		SECRETARIO DE CARROL ES ANTONOMISMO			Policy Numb	er:
A2. Building Street Address (in Box No.11717 Paradise Drive	cluding Apt., Unit, Suite	e, and/or	Bldg. No.) or	P.O. Route and	Company NA	AIC Number:
City Stone Harbor			State New Jers	ey	ZIP Code 08247	
A3. Property Description (Lot a Block 208 Lots 1 & 2	nd Block Numbers, Ta	x Parcel	Number, Leg	al Description, etc	.)	
A4. Building Use (e.g., Resider	ntial, Non-Residential, A	Addition,	Accessory, e	tc.) Residential		
A5. Latitude/Longitude: Lat. N	I 39°02'23.62"	Long. W	074°46'20.23	B" Horizontal	Datum: NAD 1	927 🗵 NAD 1983
A6. Attach at least 2 photograp	hs of the building if the	Certifica	ate is being u	sed to obtain flood	insurance.	
A7. Building Diagram Number	8					
A8. For a building with a crawls	space or enclosure(s):					
 a) Square footage of craw 	Ispace or enclosure(s)		1	585.00 sq ft		
b) Number of permanent fle	ood openings in the cra	wlspace	or enclosure	(s) within 1.0 foot	above adjacent gra	de 9
c) Total net area of flood o	penings in A8.b	1	800.00 sq in			
d) Engineered flood opening	ngs? 🛛 Yes 🗌 N	0				
A9. For a building with an attack	hed garage:					
a) Square footage of attack			340.00 sq ft			
b) Number of permanent fl				I.0 foot above adia	cent grade 2	
c) Total net area of flood o					Washington Control of Control	
		THE RESERVE OF THE PARTY OF	100.00			
d) Engineered flood opening	igsr 🔀 res 🔲 iv	U				
S	ECTION B - FLOOD I	NSURA	NCE RATE	MAP (FIRM) INFO	ORMATION	
B1. NFIP Community Name & 6 Borough of Stone Harbor #345	The state of the s		B2. County Cape May	Name		B3. State New Jersey
B4. Map/Panel B5. Suffix Number	B6. FIRM Index Date	Effe	RM Panel ective/ vised Date	B8. Flood Zone(s)	B9. Base Flood E (Zone AO, use	levation(s) e Base Flood Depth)
34009C0242 F	10-05-2017	10-05-2		AE	9	
B10. Indicate the source of the					in Item B9:	
☐ FIS Profile ☒ FIRM	Community Deter	minea [
B11. Indicate elevation datum	used for BFE in Item B	9: 🗌 N	GVD 1929		Other/Source:	
B12. Is the building located in	a Coastal Barrier Reso	urces S	ystem (CBRS) area or Otherwis	e Protected Area (0	OPA)? ☐ Yes ☒ No
Designation Date:		CBRS	☐ OPA			

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding	g information from	Section A.	FOR I	NSURANC	CE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/o 11717 Paradise Drive	r Bldg. No.) or P.O. F	Route and Box No.	Policy	Number:	
City Sta Stone Harbor Ne		IP Code 8247	Comp	any NAIC I	Number
SECTION C - BUILDING EL	EVATION INFORM	IATION (SURVEY RI	EQUIR	ED)	Marie Bara Funda No De Conserva de Cara de Car
C1. Building elevations are based on: Construction *A new Elevation Certificate will be required when construction C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), Complete Items C2.a–h below according to the build Benchmark Utilized: PID# DP1527 Indicate elevation datum used for the elevations in image in NGVD 1929 X NAVD 1988 Construction Other/	construction of the bu VE, V1–V30, V (with ding diagram specific Vertical Datu tems a) through h) b Source:	n BFE), AR, AR/A, AR/ ed in Item A7. In Puert ım: <u>NAVD 1988</u> elow.	AE, AR	/A1A30, /	hed Construction AR/AH, AR/AO. meters.
Datum used for building elevations must be the sam	ie as that used for th	e Brc.	Ch	eck the me	easurement used.
a) Top of bottom floor (including basement, crawls	oace, or enclosure flo	oor)	6.86	★ feet	meters meters
b) Top of the next higher floor			11.14		meters meters
c) Bottom of the lowest horizontal structural member	er (V Zones only)		N/A	★ feet	meters
d) Attached garage (top of slab)			6.35	× feet	meters
e) Lowest elevation of machinery or equipment ser (Describe type of equipment and location in Con	vicing the building nments)		11.05	⊠ feet	meters
f) Lowest adjacent (finished) grade next to building	(LAG)		6.35	× feet	meters
g) Highest adjacent (finished) grade next to building	g (HAG)	***************************************	6.93	★ feet	meters meters
 h) Lowest adjacent grade at lowest elevation of dec structural support 	ck or stairs, including	pa-contentiar energy and contentiar meaning and a	6.33	⊠ feet	meters
SECTION D - SURVEYOR	, ENGINEER, OR A	RCHITECT CERTIFI	CATIO	N	
This certification is to be signed and sealed by a land su I certify that the information on this Certificate represents statement may be punishable by fine or imprisonment un Were latitude and longitude in Section A provided by a li	s my best efforts to in ader 18 U.S. Code, S	sterpret the data availa Section 1001.	ble. I ui	nderstand i	ration information. Ithat any false e if attachments.
Certifier's Name Steven C. Woodrow	License Number 27514				
Title			-		100 mm
Land Surveyor				D	lace
Company Name Dante Guzzi Engineering Associates					eal
Address 418 Stokes Road				-	iere
City Medford	State New Jersey	ZIP Code 08055			
Signature Stew C. Woodin	Date 03-31-2020	Telephone (609) 654-4440	Ext.		
Copy all pages of this Elevation Certificate and all attachme	ents for (1) community	official, (2) insurance a	agent/co	ompany, an	d (3) building owner.
Comments (including type of equipment and location, per The lowest equipment visible at the time of the Survey was Model #1540-510 certified to provide 200 SF of flood pro	as the HVAC unit loo	ated outside the buildi	ing. All	vents are "	SMART VENT"
Revised lowest equipment elevation (05/05/2020) DGEA Proj# C-18-496					

ELEVATION CERTIFICATE

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

MP	ORTANT: In these spaces, copy the correspond	ling information	from Section A.	1	FOR INSURANCE COMPANY U	βE
	ilding Street Address (including Apt., Unit, Suite, and 717 Paradise Drive	d/or Bldg. No.) or	P.O. Route and Box	x No.	Policy Number:	
City Sto		State New Jersey	ZIP Code 08247		Company NAIC Number	
	SECTION E - BUILDING EL FOR ZON	EVATION INFO E AO AND ZON	RMATION (SURVI E A (WITHOUT BF	EY NOT F	EQUIRED)	
cor	Zones AO and A (without BFE), complete Items Enplete Sections A, B,and C. For Items E1–E4, use remeters.	1–E5. If the Certifnatural grade, if a	icate is intended to s vailable. Check the	support a L measurem	OMA or LOMR-F request, ent used. In Puerto Rico only,	
E1.	Provide elevation information for the following and the highest adjacent grade (HAG) and the lowest	i check the appro adjacent grade (L	priate boxes to show AG).	v whether t	the elevation is above or below	
	a) Top of bottom floor (including basement, crawlspace, or enclosure) is		feet	meters	above or below the HA	Э.
	 Top of bottom floor (including basement, crawlspace, or enclosure) is 		[] feet	meters	above or below the LAG	.
E2.	For Building Diagrams 6–9 with permanent flood of the next higher floor (elevation C2.b in	openings provided			_	
E3.	the diagrams) of the building is Attached garage (top of slab) is	•		☐ meters ☐ meters	above or below the HA	
E4.	Top of platform of machinery and/or equipment servicing the building is					
E5.	Zone AO only: If no flood depth number is availab floodplain management ordinance? Yes	le, is the top of th	e bottom floor eleva	meters ted in acco	above or below the HA	
	SECTION F - PROPERTY OW					
con	e property owner or owner's authorized representation nmunity-issued BFE) or Zone AO must sign here. To perty Owner or Owner's Authorized Representative	he statements in	s Sections A, B, and Sections A, B, and E	l E for Zon E are corre	e A (without a FEMA-issued or cl to the best of my knowledge.	
Add	dress	(Dity	Stat	e ZIP Code	
Sig	nature		Date	Tele	phone	
Cor	nments					
					☐ Check here if attachment	

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corre	sponding information from Se	ection A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Su 11717 Paradise Drive	ite, and/or Bldg. No.) or P.O. Ro	ute and Box No.	Policy Number:
City Stone Harbor		Code 247	Company NAIC Number
	N G - COMMUNITY INFORMA		
The local official who is authorized by law or ord Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, ent	dinance to administer the commic Certificate. Complete the applica	unity's floodplain ma	nagement ordinance can complete 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.)			
G2. A community official completed Section or Zone AO.	on E for a building located in Zor	ne A (without a FEM.	A-issued or community-issued BFE)
G3. The following information (Items G4-	G10) is provided for community	Noodplain managem	ent purposes.
G4. Permit Number	G5. Date Permit Issued		Date Certificate of Compliance/Occupancy Issued
19-13271	5/2/2019	\$	101/2020
G7. This permit has been issued for:	↑ New Construction ☐ Substan	tial Improvement	
G8. Elevation of as-built lowest floor (including of the building:	basement) 11,14		☐ meters Datum//AVD88
G9. BFE or (in Zone AO) depth of flooding at t	he building site: 90		meters Datum NAUD 88
G10. Community's design flood elevation:	11.0	🔀 feet	meters Datum NAVD & 8
Local Official's Name Raymond Poudrier Community Name Borough of Stone Hurbo Signature	Title Constructió	n Official /	Flood Plain Manager
Community Name Borough of Stone Hurbo	Telepho		
Signature O.M.		930	
Comments (including type of equipment and loc	ation, per C2(e), if applicable)	- V	
, , , , , , , , , , , , , , , , , , , ,			
			Check here if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy	the corresponding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt 11717 Paradise Drive	., Unit, Suite, and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:
City	State	ZIP Code	Company NAIC Number
Stone Harbor	New Jersey	08247	

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.

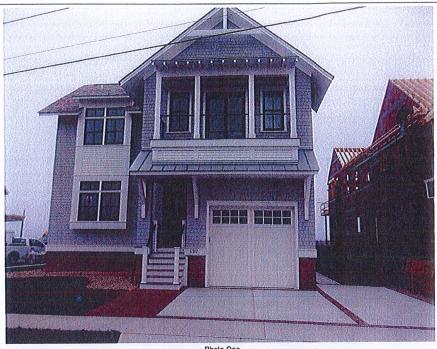


Photo One

FRONT VIEW (03/30/2020) Photo One Caption

Clear Photo One



Photo Two

Photo Two Caption REAR VIEW (03/30/2020)

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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

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.

11717 Paradise Drive

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 (03/30/2020)

Clear Photo Three



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 I/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).
- 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	$15^3/4" \times 7^3/4"$	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 = m2

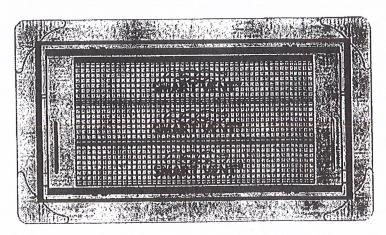


FIGURE 1-SMART VENT: MODEL 1540-510