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

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

JUN 192020

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.

		TION A - PROPERT	Y INFOR	MATION		FOR INS	URANCE COMPANY USE
A1. Building Owner Rick Petrone	er's Name					Policy No	imber:
A2. Building Stree Box No. 10905 Sunset Driv		cluding Apt., Unit, Sui	te, and/o	r Bldg. No.) o	or P.O. Route and	Company	NAIC Number:
City Stone Harbor				State New Jer	sey	ZIP Code 08247	,
A3. Property Desc Block 107.04 Lots		ind Block Numbers, Ta 1	ax Parce	Number, Le	gal Description, e	tc.)	
A4. Building Use (e.g., Resider	ntial, Non-Residential,	Addition	, Accessory,	etc.) Residenti	al	
A5. Latitude/Longi	tude: Lat. N	39°02'44.78"	Long. V	V 074°46'07.7	'9" Horizonta	al Datum: NAI	D 1927 X NAD 1983
A6. Attach at least	2 photograp	hs of the building if th	e Certific	ate is being u	used to obtain floo	d insurance.	
A7. Building Diagra	am Number	8					
A8. For a building	with a crawls	space or enclosure(s):					
a) Square foo	tage of crawl	space or enclosure(s)		1	1159.00 sqft		
b) Number of	ermanent flo	ood openings in the cr	awispac	e or enclosure	e(s) within 1.0 foo	t above adjacent	grade 12
c) Total net are	ea of flood o	penings in A8.b	2	2400.00 sq ir	1		
d) Engineered	flood openir	ngs? ⊠Yes 🗌 N	No				
A9. For a building with an attached garage:							
a) Square footage of attached garage N/A sq ft							
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A							
c) Total net area of flood openings in A9.b N/A sq in							
d) Engineered flood openings?							
	SE	CTION B - FLOOD	NSURA	NCE RATE	MAP (FIRM) INF	ORMATION	
B1. NFIP Communi				B2. County	The state of the s		B3. State
Borough of Stone H	larbor #3452	42		Cape May			New Jersey
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	RM Panel ective/	B8. Flood Zone(s)	B9. Base Flood (Zone AO,	Elevation(s) use Base Flood Depth)
34009C0242	F	10-05-2017	10-05-2	vised Date 2017	AE	9	
B10. Indicate the s	ource of the	Base Flood Elevation	(BFE) da	ata or base flo	ood depth entered	I in Item B9:	
FIS Profile	⋉ FIRM	Community Determined	mined [Other/Sou	rce:		
B11. Indicate eleva	tion datum u	sed for BFE in Item B	9: 🔲 N	GVD 1929	⊠ NAVD 1988	Other/Source	ə:
B12. Is the building	located in a	Coastal Barrier Reso	urces Sy	stem (CBRS)) area or Otherwis	se Protected Area	(OPA)? ☐ Yes ☒ No
Designation D				☐ OPA			. ,
2	Control Control Control						

ELEVATION CERTIFICATE

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IMPORTANT: In these spaces, copy the corresponding	information from Se	ection A.	FOR	NSURANC	E COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or 10905 Sunset Drive	Bldg. No.) or P.O. Ro	ute and Box No.	Policy	Number:	
City Star Stone Harbor New	1 TA	Code 247	Comp	any NAIC I	Number
SECTION C – BUILDING EL	EVATION INFORMA	TION (SURVEY RE	EQUIR	ED)	
C1. Building elevations are based on: Construction *A new Elevation Certificate will be required when construction	onstruction of the build				ned Construction
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), Complete Items C2.a–h below according to the build Benchmark Utilized: PID# AH8988	VE, V1–V30, V (with liding diagram specified Vertical Datun	in Item A7. In Puert	AE, AR o Rico	R/A1–A30, A only, enter	AR/AH, AR/AO. meters.
Indicate elevation datum used for the elevations in it ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/S	Source:				
Datum used for building elevations must be the sam	e as that used for the	BFE.	Ch	eck the me	asurement used.
a) Top of bottom floor (including basement, crawlsp	ace, or enclosure floo	r)	5.5	⊠ feet	meters
b) Top of the next higher floor			11.1	× feet	meters
c) Bottom of the lowest horizontal structural membe	r (V Zones only)		N/A	× feet	meters meters
d) Attached garage (top of slab)			N/A	× feet	meters meters
 e) Lowest elevation of machinery or equipment serv (Describe type of equipment and location in Com 	ricing the building ments)		10.7	★ feet	meters
f) Lowest adjacent (finished) grade next to building	(LAG)		4.5	× feet	meters meters
g) Highest adjacent (finished) grade next to building	(HAG)	· ·	5.4	× feet	meters
 h) Lowest adjacent grade at lowest elevation of dec structural support 	k or stairs, including		4.3	⊠ feet	meters
SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION					
This certification is to be signed and sealed by a land sur I certify that the information on this Certificate represents statement may be punishable by fine or imprisonment un	my best efforts to inte	mret the data availa	law to ble. I ui	certify elev	ation information. hat any false
Were latitude and longitude in Section A provided by a lic	ensed land surveyor?	Yes □ No	\times	Check here	e if attachments.
Certifier's Name Steven C. Woodrow	License Number 27514				
Title Professional Land Surveyor Place					200
Company Name Dante Guzzi engineering Associates		***************************************			eal
Address 418 Stokes Road				Н	ere
City Medford	State New Jersey	ZIP Code 08055			
Signature C. La Dodge	Date 06-17-2020	Telephone (609) 654-4440	Ext.		
Copy all pages of this Elevation Certificate and all attachme	nts for (1) community of	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 wa Model# 1540-520 certified to provide 200 SF of flood prot	s the HVAC unit loca	ted outside the buildi	ng. All	vents are "	SMART VENT"
DGEA Proj# C-19-454					

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding information fr		FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P 10905 Sunset Drive	.O. Route and Box No.	Policy Number:
City State Stone Harbor New Jersey	ZIP Code 08247	Company NAIC Number
SECTION E - BUILDING ELEVATION INFOR FOR ZONE AO AND ZONE	MATION (SURVEY NOT A (WITHOUT BFE)	REQUIRED)
For Zones AO and A (without BFE), complete Items E1–E5. If the Certifical complete Sections A, B,and C. For Items E1–E4, use natural grade, if available meters.	ate is intended to support a nilable. Check the measure	LOMA or LOMR-F request, ment used. In Puerto Rico only,
E1. Provide elevation information for the following and check the appropriate the highest adjacent grade (HAG) and the lowest adjacent grade (LAG)	iate boxes to show whethe G).	the elevation is above or below
a) Top of bottom floor (including basement, crawlspace, or enclosure) is		s 🔲 above or 🔲 below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is		s above or below the LAG.
E2. For Building Diagrams 6–9 with permanent flood openings provided in the next higher floor (elevation C2.b in	n Section A Items 8 and/or	9 (see pages 1–2 of Instructions),
the diagrams) of the building is	feet meter	s above or below the HAG.
E3. Attached garage (top of slab) is E4. Top of platform of machinery and/or equipment	feet	s above or below the HAG.
servicing the building is	feet	
E5. Zone AO only: If no flood depth number is available, is the top of the l floodplain management ordinance? Yes No Unknow	bottom floor elevated in acc n. The local official must c	cordance with the community's certify this information in Section G.
SECTION F - PROPERTY OWNER (OR OWNER)	S REPRESENTATIVE) CE	RTIFICATION
The property owner or owner's authorized representative who completes sommunity-issued BFE) or Zone AO must sign here. The statements in Second Complete Second Complete Second Complete Second Complete Second Complete Sec	Sections A, B, and E for Zo ections A, B, and E are corr	ne A (without a FEMA-issued or ect to the best of my knowledge.
Property Owner or Owner's Authorized Representative's Name		
Address Cit	y Sta	ite ZIP Code
Signature Da	ite Tel	ephone
Comments	The state of the s	
		☐ Check here if attachments.

ELEVATION CERTIFICATE

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

IMPORTANT: 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 and Box No. 10905 Sunset Drive	. Policy Number:				
City State ZIP Code	Company NAIC Nivester				
Stone Harbor New Jersey 08247	Company NAIC Number				
SECTION G - COMMUNITY INFORMATION (OPTIONAL)					
The local official who is authorized by law or ordinance to administer the community's floodplain Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and used in Items G8–G10. In Puerto Rico only, enter meters.	management ordinance can complete				
G1. A 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 E for a building located in Zone A (without a F or Zone AO.	EMA-issued or community-issued BFE)				
G3. The following information (Items G4–G10) is provided for community floodplain managed	jement purposes.				
G4. Permit Number G5. Date Permit Issued G	6. Date Certificate of				
19-13513 11/20/2019	Compliance/Occupancy Issued 8//7/かみつ				
G7. This permit has been issued for:					
G8. Elevation of as-built lowest floor (including basement) [[,]	feet ☐ meters Datum <u>NAVD 88</u>				
G9. BFE or (in Zone AO) depth of flooding at the building site:	feet ☐ meters Datum NAVD 68				
G10. Community's design flood elevation: #\flood \in \text{BFE+2 or 11} \times \text{I}	feet meters Datum NAVD 85				
Local Official's Name Title					
Raymond Poudrier Construction Official / Flower	1 Plain Manager				
Raymond Poudrier Construction Official / Flowd Plain Manager Community Name Telephone Borough of Stone Harbor (609) 368-6814					
C:t					
Date 1/2/2020					
Comments (including type of equipment and location, per C2(e), if applicable)					
	Check here if attachments.				

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

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IMPORTANT: 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 and Box No. Policy Number: 10905 Sunset Drive 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.

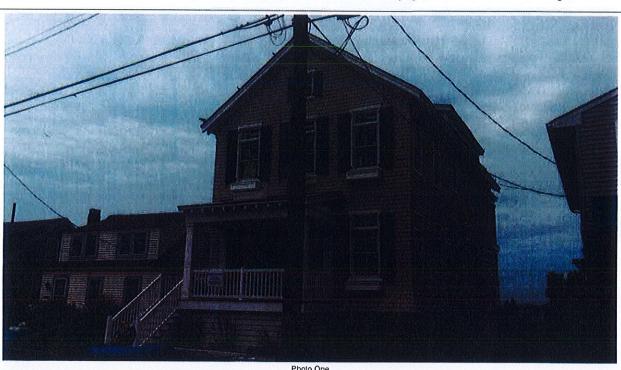


Photo One

Photo One Caption FRONT & RIGHT SIDE VIEW (06/15/2020)

ELEVATION CERTIFICATE

Clear Photo One

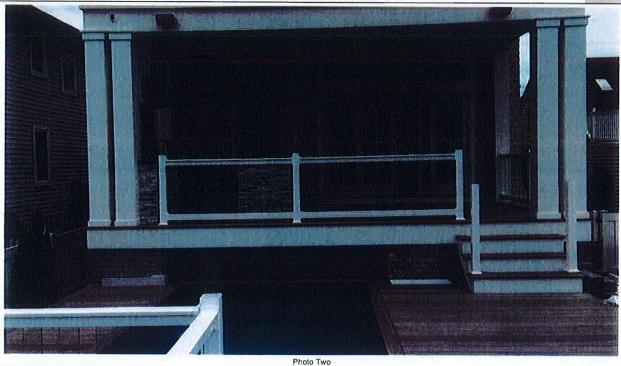


Photo Two Caption REAR VIEW (06/15/2020)

Clear Photo Two

BUILDING PHOTOGRAPHS

Continuation Page

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

ELEVATION CERTIFICATE IMPORTANT: 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 and Box No. Policy Number: 10905 Sunset 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.

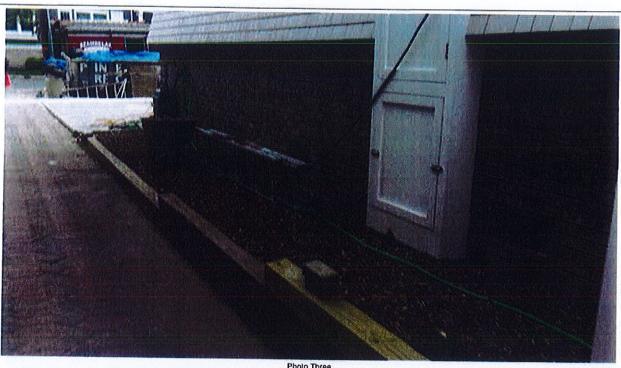


Photo Three

Photo Three Caption RIGHT SIDE VIEW (06/15/2020)

Clear Photo Three

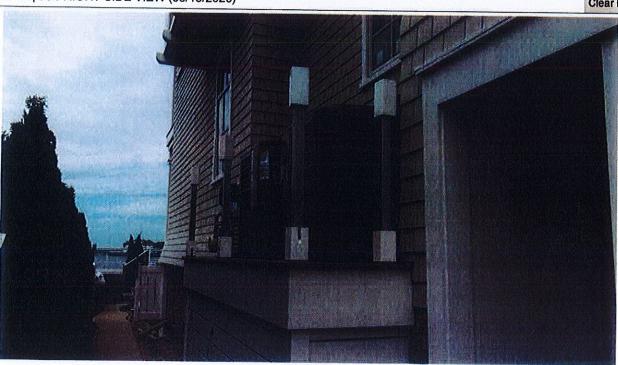


Photo Four

Photo Four Caption LEFT SIDE VIEW (06/15/2020)

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)†

[†]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

TARL	E 4	-MODEL	CITEC

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

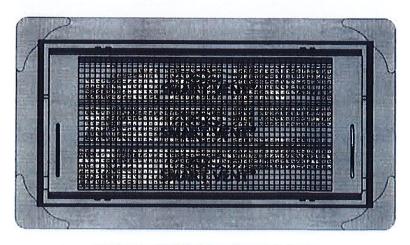


FIGURE 1-SMART VENT: MODEL 1540-510