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 INSUR	ANCE COMPANY USE		
A1. Building Owner's Name Harbaugh Developers					Policy Numb	per:
A2. Building Street Address Box No. 128 98th Street	(including Apt., Unit, Suite	e, and/or	Bldg. No.) or	P.O. Route and	Company N	AIC Number:
City			State		ZIP Code	
Stone Harbor			New Jers	sey	08247	
A3. Property Description (Lo Block 97.02 Lots 35 & 37	ot and Block Numbers, Ta	x Parcel	Number, Leg	al Description, e	(c.)	
A4. Building Use (e.g., Resi	dential, Non-Residential,	Addition,	Accessory, e	etc.) Residenti	al	
A5. Latitude/Longitude: La	t. N 39°03'05.50"	Long. W	074°45'29.3	4" Horizonta	al Datum: 🔲 NAD 1	927 × NAD 1983
A6. Attach at least 2 photog	raphs of the building if the	e Certific	ate is being u	sed to obtain floo	od insurance.	
A7. Building Diagram Numb	er 8					
A8. For a building with a cra	wlspace or enclosure(s):					
a) Square footage of cr	awlspace or enclosure(s)		1	373.00 sq ft		
b) Number of permaner	t flood openings in the cra	awispace	or enclosure	 e(s) within 1.0 foo	t above adjacent gra	ade 10
c) Total net area of floo	d openings in A8.b	2	000.00 sq in			
d) Engineered flood op	enings? 🗵 Yes 🔲 N	10	 -			
A9. For a building with an att						
a) Square footage of att	ached garage		N/A sq ft			
b) Number of permaner	it flood openings in the at	tached q	arage within	1.0 foot above ad	iacent grade N/A	
c) Total net area of floo		Ŭ	N/A sq			
d) Engineered flood ope		do.				
d) Engineered hood ope	riniga: [res 🛆 iv	NO				
	SECTION B - FLOOD	INSURA	NCE RATE	MAP (FIRM) IN	FORMATION	
B1. NFIP Community Name	& Community Number		B2. County	Name		B3. State
Borough of Stone Harbor #3	45323		Cape May			New Jersey
B4. Map/Panel B5. Suf	fix B6. FIRM Index Date	Effe	RM Panel ective/ vised Date	B8. Flood Zone(s)	B9. Base Flood E (Zone AO, us	levation(s) e Base Flood Depth)
34009C242 F	10-05-2017	10-05-2		AE	8	
B10. Indicate the source of FIS Profile X FIR	the Base Flood Elevation M Community Deter	•		irce.		The second secon
B11. Indicate elevation date	um used for BFE in Item E	39: 🔲 N	GVD 1929	NAVD 1988	Other/Source:	
B12. Is the building located	in a Coastal Barrier Reso	ources S	stem (CBRS) area or Otherw	ise Protected Area (OPA)? ☐ Yes ဩ No
		CBRS	OPA			, 21, 22 21,14
				- Market		

ELEVATION CERTIFICATE

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

		FOR IN	FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, Suite, and 128 98th Street	l/or Bldg. No.) or P.O. Ro	ute and Box No.	Policy	Number:
City	State ZIP	Code	Compa	iny NAIC Number
Stone Harbor	New Jersey 082	47		:
SECTION C - BUILDING	ELEVATION INFORMA	TION (SURVEY R	EQUIRE	D)
	• _	lding Under Constru	uction*	
*A new Elevation Certificate will be required whe		•		
C2. Elevations – Zones A1–A30, AE, AH, A (with BF Complete Items C2.a–h below according to the benchmark Utilized: PID# JU4332	E), VE, V1–V30, V (with E puilding diagram specified Vertical Datum	in Item A7. In Puerl	/AE, AR/ to Rico o	A1–A30, AR/AH, AR/AO. nly, enter meters.
Indicate elevation datum used for the elevations	in items a) through h) belo	ow.		
☐ NGVD 1929 ☐ NAVD 1988 ☐ Oth	er/Source:			
Datum used for building elevations must be the s	ame as that used for the	BFE.	C.L.	
a) Tap of bottom floor (including basement, ero)	utonoon, or onalogues floor	A)	8.1	eck the measurement used. in the image of
a) Top of bottom floor (including basement, crav	vispace, or enclosure 1100	······		
b) Top of the next higher floor			11.8	∑ feet ☐ meters
 c) Bottom of the lowest horizontal structural mer 	mber (V Zones only)		N/A	∑ feet
d) Attached garage (top of slab)			N/A	feet meters
 e) Lowest elevation of machinery or equipment (Describe type of equipment and location in C 	servicing the building Comments)	·	11.3	
f) Lowest adjacent (finished) grade next to build	ling (LAG)		7.9	
g) Highest adjacent (finished) grade next to buil	ding (HAG)		8.0	
 h) Lowest adjacent grade at lowest elevation of structural support 	deck or stairs, including		7.9	
SECTION D - SURVEYO	DR. ENGINEER. OR AR	CHITECT CERTIF	ICATIO	N
This certification is to be signed and sealed by a land I certify that the information on this Certificate representations are the companied of the certificate of the certificate representation of the certificate of the certificate of the certificate of the certificate of the certification of the cert	surveyor, engineer, or ar	chitect authorized b	y law to	certify elevation information.
Were latitude and longitude in Section A provided by			\boxtimes	Check here if attachments.
Certifier's Name	License Number			
Steven C. Woodrow	27514			
Title Professional Land Surveyor				Place
Company Name	- · · · · · · · · · · · · · · · · · · ·			
Dante Guzzi engineering Associates				Seal
Address 418 Stokes Road				Here
City	State	ZIP Code	\dashv	
Medford	New Jersey	08055		
Signature Stem C Wooden-	Date 08-18-2020	Telephone (609) 654-4440	Ext.	
Copy all pages of this Elevation Certificate and all attac	hments for (1) community	official, (2) insurance	agent/co	ompany, and (3) building owner.
Comments (including type of equipment and location The lowest equipment visible at the time of the Surve Model #1540-510 certified to provide 200 SF of flood	y was the HVAC unit loca	ted outside the build	ding. All	vents are "SMART VENT"
DGEA Proj# C-19-352				

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspondi	ng information fron	n Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and 128 98th Street	/or Bldg. No.) or P.O	. Route and Box No.	Policy Number:
	State New Jersey	ZIP Code 08247	Company NAIC Number
SECTION E – BUILDING EL FOR ZONE	EVATION INFORMA AO AND ZONE A	ATION (SURVEY NO (WITHOUT BFE)	REQUIRED)
For Zones AO and A (without BFE), complete Items E1 complete Sections A, B,and C. For Items E1–E4, use n enter meters.	–E5. If the Certificate atural grade, if availa	e is intended to support able. Check the measur	a LOMA or LOMR-F request, ement used. In Puerto Rico only,
E1. Provide elevation information for the following and the highest adjacent grade (HAG) and the lowest a a). Top of bottom floor (including basement,	check the appropriat adjacent grade (LAG)	e boxes to show wheth	er the elevation is above or below
crawlspace, or enclosure) is b) Top of bottom floor (including basement, crawlspace, or enclosure) is		feet mete	
E2. For Building Diagrams 6–9 with permanent flood o the next higher floor (elevation C2.b in	penings provided in \$	Section A Items 8 and/c	or 9 (see pages 1–2 of Instructions),
the diagrams) of the building is		feet	
E3. Attached garage (top of slab) is			ers 🔲 above or 📋 below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is		feet mete	ers above or below the HAG.
E5. Zone AO only: If no flood depth number is availabl floodplain management ordinance? Yes	e, is the top of the bo No Dunknown.	ottom floor elevated in a The local official must	ccordance with the community's tertify this information in Section G.
SECTION F - PROPERTY OW	NER (OR OWNER'S	REPRESENTATIVE) C	ERTIFICATION
The property owner or owner's authorized representation	ve who completes Se	ctions A. B. and F for Z	one A (without a FEMA-issued or
community-issued BFE) or Zone AO must sign here. The		tions A, B, and E are co	orrect to the best of my knowledge.
Property Owner or Owner's Authorized Representative	's Name		
Address	City	S	State ZIP Code
Signature	Date	; T	elephone
Comments		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			Check here if attachments.

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corre	esponding information from	om Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, St. 128 98th Street	uite, and/or Bidg. No.) or P	.O. Route and Box No	
City	State	ZIP Code	Company NAIC Number
Stone Harbor	New Jersey	08247	
SECTIO	N G - COMMUNITY INFO	DRMATION (OPTION	AL)
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	Certificate. Complete the	community's floodplair applicable item(s) and	n management ordinance can complete sign below. Check the measurement
G1. The information in Section C was tak engineer, or architect who is authoriz data in the Comments area below.)	en from other documentati ed by law to certify elevation	on that has been sign on information. (Indica	ed and sealed by a licensed surveyor, ale the source and date of the elevation
G2. A community official completed Section or Zone AO.	on E for a building located	in Zone A (without a F	FEMA-issued or community-issued BFE)
G3. The following information (Items G4~	G10) is provided for comm	nunity floodplain mana	gement purposes.
G4. Permit Number	G5. Date Permit Issued	C	66. Date Certificate of
19-13559	12/17/19		Compliance/Occupancy Issued 8/28/2020
G7. This permit has been issued for:	/ KNew Construction ☐ Su	ıbstantial Improvemen	nt.
G8. Elevation of as-built lowest floor (including of the building:	g basement)	×	feet meters Datum NAVD 87
G9. BFE or (in Zone AO) depth of flooding at t	the building site: AE	8 🗵	feet meters Datum NAVD 88
G10. Community's design flood elevation:	Higher of BFE	+2.0 11	feet meters Datum NAVD 88
Local Official's Name Raymond Poudrier		itle	1 D() M
Community Name	T	elephone	d Plain Manager
Borough of Stone Harbor	(609) 36	9-681U	
Signature All	_	vate	
Comments (including type of equipment and loc	cation, per C2(e), if applica	able)	
osone (mondaring type of equipment and lot	sation, per oz(e), il applica	ibie)	
			Check here if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

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Expiration Date: November 30, 2022

IMPORTANT: In these spaces, c	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. 128 98th Street			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

Photo One Caption FRONT & RIGHT SIDE VIEW (08/13/2020) Clear Photo One



Photo Two Caption REAR & RIGHT SIDE VIEW (08/13/2020)

Clear Photo Two

BUILDING PHOTOGRAPHS Continuation Page

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. Policy Number: 128 98th Street City State ZIP Code Company NAIC Number Stone Harbor 08247 New Jersey

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 LEFT SIDE VIEW (08/13/2020)

ELEVATION CERTIFICATE

Clear Photo Three

Photo Four

Photo Four

Photo Four Caption

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 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).
- 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
SmartVENT [®]	1540-510	15 ³ / ₄ " X 7 ³ / ₄ "	200
FloodVENT® Overhead Door	1540-524	15 ³ / ₄ " × 7 ³ / ₄ "	200
SmartVENT® Overhead Door	1540-514	15 ³ / ₄ " × 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 S1: 1 inch = 25.4 mm; 1 square foot = m²

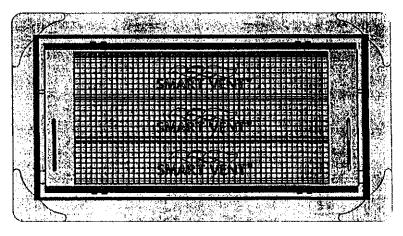


FIGURE 1-SMART VENT: MODEL 1540-510