. 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.

	SEC.	TION A - PROPERTY	INFOR	MATION		FOR INSUR	RANCE COMPANY USE
A1. Building Owne Harbaugh Custom						Policy Numl	per:
A2. Building Street Box No. 337 94th Street	Address (in	cluding Apt., Unit, Suit	e, and/or	Bldg. No.) o	P.O. Route and	Company N	AIC Number:
City Stone Harbor				State New Jers	sey	ZIP Code 08247	
A3. Property Desc Block 94.04 Lots 1	,	nd Block Numbers, Ta	x Parcel	Number, Leg	al Description, etc	;.)	
A4. Building Use (e.g., Resider	ntial, Non-Residential,	Addition,	Accessory, e	etc.) Residentia	1	
A5. Latitude/Longi	tude: Lat.N	39°03'22.94"	Long. W	/ 074°45'39.4	2" Horizontal	Datum: NAD 1	927 × NAD 1983
A6. Attach at least	2 photograp	hs of the building if the	e Certific	ate is being u	sed to obtain flood	d insurance.	
A7. Building Diagra	am Number	7					
A8. For a building	with a crawls	pace or enclosure(s):					
a) Square foo	tage of crawl	space or enclosure(s)		1	586.00 sq ft		
b) Number of p	permanent flo	ood openings in the cra	awlspace	e or enclosure	e(s) within 1.0 foot	above adjacent gra	ade 8
c) Total net ar	ea of flood o	penings in A8.b	1	600.00 sq in			
d) Engineered	flood openir	ngs? ⊠ Yes □ N	10				
A9. For a building v	vith an attach	ned garage:					
a) Square foot	age of attach	ned garage		N/A sq ft			
b) Number of	permanent flo	ood openings in the at	tached g	arage within	1.0 foot above adja	acent grade N/A	
1		penings in A9.b	J	N/A sq	_		
d) Engineered			lo	7477			
u) Engineered	nood openin	igs? ∐ Yes ⊠ N	•0				
	SE	CTION B - FLOOD	INSURA	NCE RATE	MAP (FIRM) INF	ORMATION	
	•	Community Number		B2. County	Name		B3. State
Borough of Stone I	Harbor #3453	323		Cape May			New Jersey
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	ective/	B8. Flood Zone(s)	B9. Base Flood E (Zone AO, us	levation(s) e Base Flood Depth)
34009C0242	F	10-05-2017	10-05-2	vised Date 2017	AE	9	
B10. Indicate the	source of the	Base Flood Elevation	(BFE) da	ata or base fl	ood depth entered	in Item B9:	
☐ FIS Profile	e 🗵 FIRM	Community Deter	mined [Other/Sou	rce:		
B11. Indicate elev	ation datum i	used for BFE in Item B	89: 🔲 N	GVD 1929	× NAVD 1988	Other/Source:	
B12. Is the buildin	g located in a	a Coastal Barrier Resc	ources Sy	ystem (CBRS) area or Otherwis	e Protected Area (0	OPA)? ☐ Yes ※ No
Designation	Date:		CBRS	□ОРА			

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Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 337 94th Street	Policy Number:	
CityStateZIP CodeStone HarborNew Jersey08247	Company NAIC Number	
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY R	EQUIRED)	
C1. Building elevations are based on: Construction Drawings* Building Under Construction *A new Elevation Certificate will be required when construction of the building is complete. C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puert Benchmark Utilized: PID# DP1524 Vertical Datum: NAVD 1988 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 BFE. a) Top of bottom floor (including basement, crawlspace, or enclosure floor) b) Top of the next higher floor b) Top of the next higher floor c) Bottom of the lowest horizontal structural member (V Zones, only) d) Attached garager(top of slab) e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) f) Lowest adjacent (finished) grade next to building (LAG) g) Highest adjacent (finished) grade next to building (HAG) h) Lowest adjacent grade at lowest elevation of deck or stairs, including	Check the measurement used. 6.6 feet meters N/A feet meters 15.7 feet meters N/A feet meters 15.2 feet meters 15.2 feet meters 15.3 feet meters	
structural support	6.2 X feet meters	
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFIC This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by I certify that the information on this Certificate represents my best efforts to interpret the data available statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. Were latitude and longitude in Section A provided by a licensed land surveyor? Yes \(\subseteq \text{No} \)	law to certify elevation information	
Certifier's Name License Number Robert K. Sanchez 43294		
Title Professional Land Surveyor Company Name	Place	
CME Associates	Seal	
Address 203 South Main Street	के दिनहर्यक्त	
City State ZIP Code Cape May Court House New Jersey 08210		
Signature Date Telephone 10-05-2022 (609) 465-3333	Ext.	
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance at Comments (including type of equipment and location, per C2(e), if applicable) The lowest equipment servicing the building is the HVAC Unit. The foundation has all Smart Flood Verices.		
Project #M2100047.01		

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. Policy Number: 337 94th Street City State ZIP Code Company NAIC Number Stone Harbor New Jersey 08247 SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE) For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters. E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG). a) Top of bottom floor (including basement, crawlspace, or enclosure) is b) 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 openings provided 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 feet meters above or below the HAG. E3_Attached guisge (top-of-slab) is-____reet_____reers above or below the HAG. E4. Top of platform of machinery and/or equipment servicing the building is feet meters above or below the HAG. E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? 🔲 Yes 🔲 No 🔛 Unknown. The local official must certify this information in Section G. SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge. Property Owner or Owner's Authorized Representative's Name Address City State ZIP Code Signature Date Telephone Comments

Check here if attachments.

ELEVATION CERTIFICATE

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IMPORTANT: In these spaces, copy the corresponding information from Section A.	EOR INCLIDANCE COMPANY LICE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.	FOR INSURANCE COMPANY USE Policy Number:
337 94th Street	1 Gilloy Number,
City State ZIP Code	Company NAIC Number
Stone Harbor New Jersey 08247	
SECTION G - COMMUNITY INFORMATION (OPTIONAL	
The local official who is authorized by law or ordinance to administer the community's floodplain n Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and si used in Items G8–G10. In Puerto Rico only, enter meters. G1. The information in Section C was taken from other documentation that has been signed.	gn below. Check the measurement
engineer, or architect who is authorized by law to certify elevation information. (Indicate data in the Comments area below.)	the source and date of the elevation
G2. A community official completed Section E for a building located in Zone A (without a FEI or Zone AO.	MA-issued or community-issued BFE)
G3. The following information (Items G4–G10) is provided for community floodplain manager	ment purposes.
G4. Permit Number G5. Date Permit Issued G6.	Date Certificate of
Section 1 and 1 an	Compliance/Occupancy Issued
G7. This permit has been issued for: New Construction Substantial Improvement	
G8. Elevation of as-built lowest floor (including basement) 15.7 🔀 fee	et 🗌 meters Datum NAVD 88
1000	t meters Datum NAUNES
	t meters Datum NAVD (8
Raymond Poudnier Construction Officed/Flood Community Name	Plain Manager
Stone Harbar 609 - 368-6814	,
Date 10/13/22	
Comments (including type of equipment and location, per C2(e), if applicable)	
•	
	,
	Check here if attachments,

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

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Building Street Address (including 337 94th Street	Apt., 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

Photo One Caption FRONT VIEW (09-21-2022)

Clear Photo One



Photo Two Caption REAR VIEW (09-21-2022)

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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

			CONTROL CONTROL AND CONTROL CO
IMPORTANT: In these spaces, co	ppy the corresponding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including 337 94th Street	Apt., 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 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.

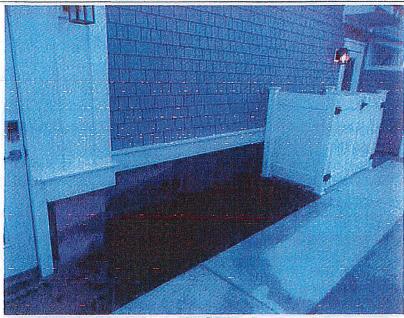


Photo Three

Photo Three Caption RIGHT SIDE VIEW (09-21-2022)

Clear Photo Three

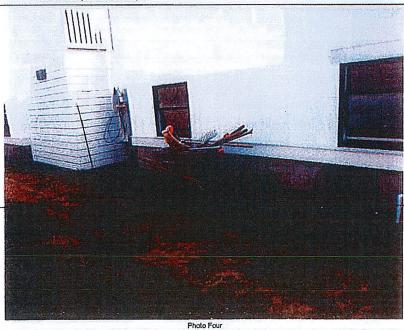


Photo Four Caption LEFT SIDE VIEW (09-21-2022)



ICC-ES Evaluation Report

ESR-2074

Reissued February 2021 Revised April 2021 This report is subject to renewal February 2023.

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; #1540-324; #1550-514 FLOOD VENT SCALING KIT #1540-326

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012, 2009 and 2006 International Building Code® (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 International Residential Code[®] (IRC)
- 2021, 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 IRC 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 described 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 latternatives to what is specified in those codes listed in Sossien-1.6-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 February 2021).
- 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 described 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) AA1-9368 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 " 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

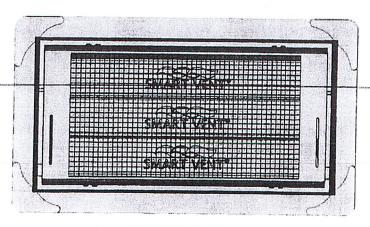


FIGURE 1-SMART VENT: MODEL 1540-510