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 - PROPERT	Y INFOR	MATION			FOR INS	URANCE COMPANY USE
A1. Building Owner's Name Ben Chapman Policy Number:							umber:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Company NAIC Number: 102 N Sumner Avenue							y NAIC Number:	
City Margate								
A3. Property Desc Block 320, Lot 23	cription (Lot a	and Block Numbers, Ta	ax Parce	l Number, Le	gal Desc	ription, et	c.)	
A4. Building Use (e.g., Reside	ntial, Non-Residential,	Addition	, Accessory,	etc.)	Residentia	al	
A5. Latitude/Long	itude: Lat. <u>N</u>	l39°19'34.9"	Long. V	V74°30'38.7"		Horizonta	l Datum: 🔲 NA	D 1927 🔀 NAD 1983
A6. Attach at leas	t 2 photograp	hs of the building if th	e Certific	cate is being i	used to c	btain floo	d insurance.	
A7. Building Diagr	am Number	7						
A8. For a building	with a crawls	space or enclosure(s):						
a) Square foo	tage of craw	lspace or enclosure(s)			799.00	sq ft		
b) Number of	permanent fl	ood openings in the cr	awlspac	e or enclosur	e(s) with	in 1.0 foot	above adjacent	grade 7
c) Total net ar	ea of flood o	penings in A8.b		1400.00 sq ir	1			
d) Engineered	l flood openir	ngs? 🛛 Yes 🗌 🗈	٧o					
A9. For a building v	vith an attacl	ned garage:						
a) Square foot	age of attach	ned garage		sq fl	:			
b) Number of p	permanent flo	ood openings in the at	tached g	arage within	1.0 foot a	above adj	acent grade _	
			_			•		
c) Total net area of flood openings in A9.b d) Engineered flood openings?								
a) Engineered nood openings: 👔 res 🔀 140								
	SE	CTION B - FLOOD	NSURA	NCE RATE	MAP (F	IRM) INF	ORMATION	
B1. NFIP Commun Margate 345304	ity Name & 0	Community Number		B2. County Atlantic	Name			B3. State New Jersey
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	I RM Panel ective/	B8. Flo Zone(s		B9. Base Flood (Zone AO,	 Elevation(s) use Base Flood Depth
34001C434	F	08-28-2018	08-28-2	vised Date 2018	AE		8.0	
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:								
☐ FIS Profile ☑ FIRM ☐ Community Determined ☐ Other/Source:								
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source:								
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? 🗌 Yes 🔀 No								
Designation [CBRS	□ОРА				

ELEVATION CERTIFICATE

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

					FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite, and 102 N Sumner Avenue	or Bldg. No.) or P.O. Ro	oute and Box No.	Policy	Number:			
l ,	· ·	Code 402	Comp	any NAIC I	Number		
SECTION C – BUILDING E	ELEVATION INFORMA	TION (SURVEY RI	EQUIRE	ED)			
C1. Building elevations are based on: Construct *A new Elevation Certificate will be required when C2. Elevations – Zones A1–A30, AE, AH, A (with BFE Complete Items C2.a–h below according to the but Benchmark Utilized: GPS	construction of the build), VE, V1–V30, V (with E	BFE), AR, AR/A, AR/ in Item A7. In Puert	/AE, AR	 /A1–A30, <i>A</i>	hed Construction AR/AH, AR/AO. meters.		
Indicate elevation datum used for the elevations in	items a) through h) bel	ow.					
☐ NGVD 1929 ☑ NAVD 1988 ☐ Othe							
Datum used for building elevations must be the sa	ime as that used for the	BFE.	Ch	eck the me	easurement used.		
a) Top of bottom floor (including basement, crawl	space, or enclosure floo	r)	8.0	✓ feet	meters		
b) Top of the next higher floor			17.0	✓ feet	meters		
c) Bottom of the lowest horizontal structural mem	ber (V Zones only)		N/A	☐ feet	meters		
d) Attached garage (top of slab)	,		8.0		meters		
e) Lowest elevation of machinery or equipment so (Describe type of equipment and location in Co	ervicing the building omments)		8.0	⊠ feet	meters		
f) Lowest adjacent (finished) grade next to buildi	ng (LAG)		7.7	✓ feet	meters		
g) Highest adjacent (finished) grade next to buildi			7.9		meters		
h) Lowest adjacent grade at lowest elevation of d structural support	,		7.7		meters		
SECTION D - SURVEYO	R. ENGINEER. OR AR	CHITECT CERTIFI	CATIO	N			
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false 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 □ No		Check here	e if attachments.		
Certifier's Name James R. Boney, PLS	License Number 24GS03126400						
Title Professional Land Surveyor				D	ace		
Company Name James R. Boney & Assoc.					eal		
Address 13 Stone Mill Court					ere		
City Egg Harbor Township	State New Jersey	ZIP Code 08234					
Signature Amhy	Date 06-04-2022	Telephone (609) 788-8013	Ext.				
Copy all pages of this televation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.							
Comments (including type of equipment and location, p Two and a half Story Dwelling on a slab. There are thre or above the finished floor. There are seven (7) SMART installed in the Garage foundation.	e (3) A/C units on an ele	vated platform. All o	other me there are	chanicals are two (2) S	are inside and at MART Vents		

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspond			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, an 102 N Sumner Avenue	ıd/or Bldg. No.) or P	² .O. Route and Box No.	Policy Number:
	State New Jersey	ZIP Code 08402	Company NAIC Number
SECTION E – BUILDING EL FOR ZON	LEVATION INFOR	RMATION (SURVEY NOT E A (WITHOUT BFE)	REQUIRED)
For Zones AO and A (without BFE), complete Items E complete Sections A, B,and C. For Items E1–E4, use enter meters.	natural grade, if ava	ailable. Check the measure	ment used. In Puerto Rico only,
E1. Provide elevation information for the following and the highest adjacent grade (HAG) and the lowesta) Top of bottom floor (including basement,			r the elevation is above or delow
crawlspace, or enclosure) is b) Top of bottom floor (including basement,		feet meter	
crawlspace, or enclosure) is E2. For Building Diagrams 6–9 with permanent flood of	openings provided		
the next higher floor (elevation C2.b in the diagrams) of the building is			
E3. Attached garage (top of slab) is			rs above or below the HAG.
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			cordance with the community's certify this information in Section G.
SECTION F - PROPERTY OW	NER (OR OWNER	'S REPRESENTATIVE) CE	RTIFICATION
The property owner or owner's authorized representati community-issued BFE) or Zone AO must sign here. T	ve who completes he statements in S	Sections A, B, and E for Zo ections A, B, and E are cor	ne A (without a FEMA-issued or rect to the best of my knowledge.
Property Owner or Owner's Authorized Representative	s's Name		
Address	Cit	ty Sta	ate ZIP Code
Signature	Da	ate Te	lephone
Comments			
			☐ Check here if attachments.

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corre	sponding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, St 102 N Sumner Avenue	ite, and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:
City Margate	State New Jersey	ZIP Code 08402	Company NAIC Number
SECTIO	N G - COMMUNITY INF	FORMATION (OPTIONAL)	
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	Certificate. Complete the ter meters. en from other documenta	e applicable item(s) and sig	in below. Check the measurement and sealed by a licensed surveyor,
engineer, or architect who is authorized data in the Comments area below.) G2. A community official completed Section			
or Zone AO.			
G3. The following information (Items G4–	310) is provided for com	munity floodplain managen	nent purposes.
G4. Permit Number	G5. Date Permit Issued	d G6.	Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction S	Substantial Improvement	
G8. Elevation of as-built lowest floor (including of the building:	basement)	fee	et meters Datum
G9. BFE or (in Zone AO) depth of flooding at the	ne building site:	fee	et meters Datum
G10. Community's design flood elevation:			et meters Datum
Local Official's Name	in Calatin	Title <i>C.P.</i>	-M
Community Name	5 A TA	Telephone	322.1974
Signature			8/14/24
Comments (including type of equipment and local	ation, per C2(e), if applic	:able)	
			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, cop	FOR INSURANCE COMPANY USE		
Building Street Address (including A	Policy Number:		
102 N Sumner Avenue			
City	State	ZIP Code	Company NAIC Number
Margate	New Jersey	08402	

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 06-01-22

Clear Photo One



Photo Two

Photo Two Caption Right Side 06-01-22

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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

IMPORTANT: In these spaces, copy the	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., U 102 N Sumner Avenue	Policy Number:		
City	State	ZIP Code	Company NAIC Number
Margate	New Jersey	08402	

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 Caption Rear/ Left Side 06-06-22

Clear Photo Three



Photo Four Caption Smart Vent Model 1540-510 06-01-22

Clear Photo Four



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ESR-2074

Reissued 02/2021 Revised 04/2021 This report is subject to renewal 02/2023.

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



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ICC-ES Evaluation Report

ESR-2074

Reissued February 2021 Revised April 2021

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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:

- 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 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 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 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 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) 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 " 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

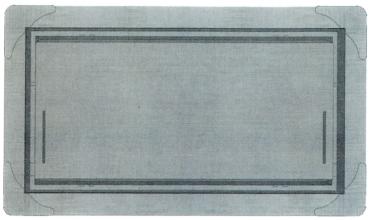


FIGURE 2—SMART VENT MODEL 1540-520

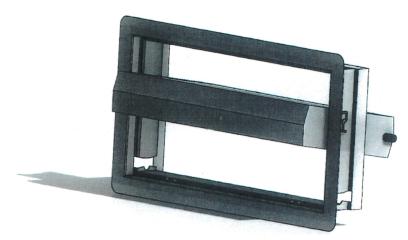


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

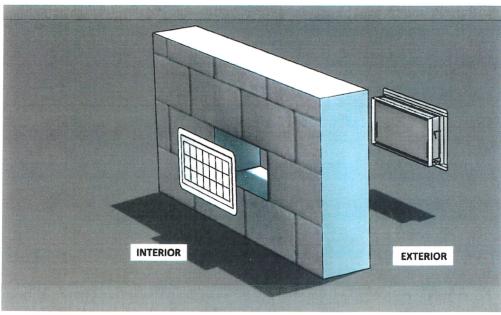


FIGURE 4-FLOOD VENT SEALING KIT