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 an pages of the	*************			*******	try Dinoi	ai, (&) illourance	。,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	RANCE COMPANY USE
SECTION A - PROPERTY INFORMATION A1. Building Owner's Name					Policy Num			
TYLER COSTANTINO					i oney ivain			
A2. Building Stree Box No. 105 NORTH IROQ		cluding Apt., Unit, Sui	te, and/o	or Bldg. No.) o	or P.O. F	Route and	Company N	IAIC Number:
City	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			State			ZIP Code	
MARGATE				New Jer	sey		08402	
A3. Property Desc LOT 10, BLOCK 3	, ,	ind Block Numbers, Ta	ax Parce	l Number, Le	gal Des	cription, etc.)		recoversors and a second s
A4. Building Use (e.g., Resider	ntial, Non-Residential,	Addition	, Accessory,	etc.)	RESIDENTIAL	٠	
A5. Latitude/Longi	tude: Lat. 3	9-19-49	Long	74-30-14		Horizontal Da	tum: NAD 1	1927 X NAD 1983
A6. Attach at least	2 photograp	hs of the building if th	e Certific	cate is being u	used to	obtain flood ins	surance.	
A7. Building Diagn		**		7				
		space or enclosure(s):						
_		space or enclosure(s)			989 00	en ft		
		ood openings in the cr	***************************************	**********			us adisant are	ndo E
						III I.O IOOL ADO	ive adjadent gra	iqe 5
		penings in A8.b	***********	i po sq ir	1			
d) Engineered	flood openir	ngs? 🗵 Yes 🗌 N	No.	•			•	
A9. For a building v	vith an attach	ned garage:						
a) Square foot	age of attach	ned garage		0.00 sq ft	;			
b) Number of p	permanent flo	ood openings in the at	tached g	arage within	1.0 foot	above adjacer	nt grade 0	
c) Total net are	ea of flood or	penings in A9.b		0.00 sq	in		Statistical conference	**************************************
d) Engineered			***************************************	23.2.2. 2.4	***		,	
a) Eliginociaa	mood openin	gs? ☐ Yes ⊠ N	NO.					
-	SE	CTION B - FLOOD	INSURA	NCE RATE	MAP (F	IRM) INFOR	MATION	
B1. NFIP Commun		ommunity Number		B2. County				B3. State
MARGATE CITY-3	45304			ATLANTIC	CO.			New Jersey
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	RM Panel ective/ vised Date	B8. Fle Zone(s		. Base Flood E (Zone AO, use	levation(s) e Base Flood Depth)
34001C0434	F	08-28-2018	08-28-2		AE	9'.		
		Base Flood Elevation Community Determined				th entered in It	em B9:	
B11. Indicate eleva	ition datum u	sed for BFE in Item B	9: 🔲 N	GVD 1929	⊠ NAV	/D 1988 📋	Other/Source:	
B12. Is the building	located in a	Coastal Barrier Reso	urces Sv	/stem (CBRS) area o	r Otherwise Pr	otected Area (C	DPA)? ☐ Yes ☒ No
Designation [2-4		-	OPA				,
- ಇತ್ಯಾಪ್ರೀಚಾಡಿಗೆ ಕ	***************************************				•			

b) Top of the next higher floor

OMB No. 1660-0008 **ELEVATION CERTIFICATE** 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: 105 NORTH IROQUOIS AVENUE City State ZIP Code Company NAIC Number MARGATE New Jersey 08402 SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) 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/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: TRIMBLE VRS 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.

c)	Bottom of the lowest horizontal structural member (V Zones only)	<u>N/A</u>	feet	meters
d)	Attached garage (top of slab)	<u>N/A</u>	feet	meters
e)	Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	13.3	X feet	meters
f)	Lowest adjacent (finished) grade next to building (LAG)	5.2	X feet	meters
g)	Highest adjacent (finished) grade next to building (HAG)	6.0		meters
h)	Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	5.2		meters

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.

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

Were latitude and longitude in Section A provided by a licensed land surveyor? X Yes No Check here if attachments. Certifier's Name License Number STEVEN R. KELLY PLS PP 22714 Title PROFESSIONAL LAND SURVEYOR Company Name

a) Top of bottom floor (including basement, crawlspace, or enclosure floor)

KELLY SURVEY Address PO BOX 24 City MEDFORD Signature

ZIP Code State 08055 New Jersey Date Telephone

(609) 517-5177

Ext.

Check the measurement used.

meters

meters

meters

6.0 X feet

X feet

[feet

13.3

N/A

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments (including type of equipment and location, per C2(e), if applicable)

C2d: GARAGE SHOWN IS NOT PART OF STRUCTURE. C2e: REGULAR HOUSEHOLD MECHANICALS ELEVATION=13.3'

05-28-2020

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspondir		FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/	or Bldg. No.) or P.O. Route and Box	No. Policy Number:
1	ate ZIP Code ew Jersey 08402	Company NAIC Number
SECTION E – BUILDING ELE FOR ZONE	VATION INFORMATION (SURVE AO AND ZONE A (WITHOUT BFE	Y NOT REQUIRED)
For Zones AO and A (without BFE), complete Items E1–complete Sections A, B,and C. For Items E1–E4, use na enter meters.	E5. If the Certificate is intended to su tural grade, if available. Check the m	pport a LOMA or LOMR-F request, easurement used. In Puerto Rico only,
E1. Provide elevation information for the following and c the highest adjacent grade (HAG) and the lowest ad	heck the appropriate boxes to show lijacent grade (LAG).	whether the elevation is above or below
a) Top of bottom floor (including basement, crawlspace, or enclosure) is	feet [meters above or below the HAG.
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 oper the next higher floor (elevation C2.b in the diagrams) of the building is		and/or 9 (see pages 1–2 of Instructions), meters above or below the HAG.
E3. Attached garage (top of slab) is		Toward Control of Cont
E4. Top of platform of machinery and/or equipment servicing the building is		meters above or below the HAG.
E5. Zone AO only: If no flood depth number is available, floodplain management ordinance?	is the top of the bottom floor elevate	
SECTION F - PROPERTY OWNE	R (OR OWNER'S REPRESENTATI	VE) CERTIFICATION
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	who completes Sections A, B, and E statements in Sections A, B, and E	for Zone A (without a FEMA-issued or 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		

ELEVATION CERTIFICATE

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

IMPORTANT: in these spaces, copy the cor	responding information f	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, S 105 NORTH IROQUOIS AVENUE	Suite, and/or Bldg. No.) or l	P.O. Route and Box No.	Policy Number:
City MARGATE	State New Jersey	ZIP Code 08402	Company NAIC Number
SECTI	ON G - COMMUNITY INF	FORMATION (OPTIONAL)	
The local official who is authorized by law or o Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, et	n Certificate. Complete the	community's floodplain magapplicable item(s) and sign	inagement ordinance can complete in below. Check the measurement
G1. The information in Section C was tal engineer, or architect who is authorized tata in the Comments area below.)			
G2. A community official completed Sector or Zone AO.	tion E for a building located	d in Zone A (without a FEM	A-issued or community-issued BFE)
G3. The following information (Items G4-	-G10) is provided for comr	munity floodplain managem	ent purposes.
G4. Permit Number	G5. Date Permit Issued		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 (includin of the building:	g basement)	feet	t meters Datum
G9. BFE or (in Zone AO) depth of flooding at	the building site:	feet	t meters Datum
G10. Community's design flood elevation:		feet	t meters Datum
	Calmtin	Title C é	- P
Community Name MAKGA	12	Telephone 609	9-822-1914
Signature C 10		Date	6/9/2000
Comments (including type of equipment and lo	cation, per C2(e), if applica	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, c	FOR INSURANCE COMPANY USE		
Building Street Address (including 105 NORTH IROQUOIS AVENUE	Policy Number:		
City MARGATE	State New Jersey	ZIP Code 08402	Company NAIC Number

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 RIGHT FRONT 03/04/2020

Clear Photo One

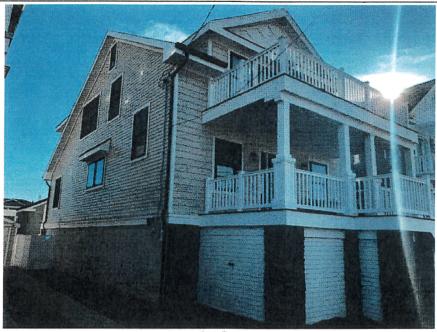


Photo Two

Photo Two Caption LEFT FRONT 03/04/2020

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., Ul 105 NORTH IROQUOIS 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

Photo Three Caption LEFT REAR 03/04/2020

Clear Photo Three



Photo Four Caption RIGHT REAR 03/04/2020

Clear Photo Four Form Page 6 of 6



Most Widely Accepted and Trusted

ICC-ES Evaluation Report

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ESR-2074

Reissued 02/2019
This report is subject to renewal 02/2021.

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



"2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence"

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ICC-ES Evaluation Report

ESR-2074

Reissued February 2019

This report is subject to renewal February 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:

- 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.

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-2inch (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

TARI	C	1_	_M	OD	FI	SE	ZES

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

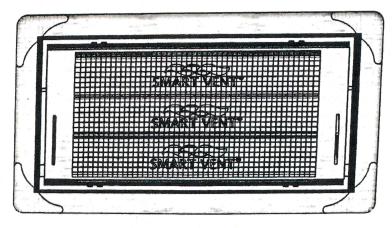


FIGURE 1-SMART VENT: MODEL 1540-510

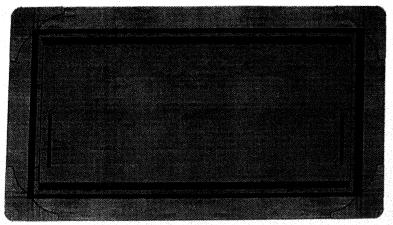


FIGURE 2-SMART VENT MODEL 1540-520

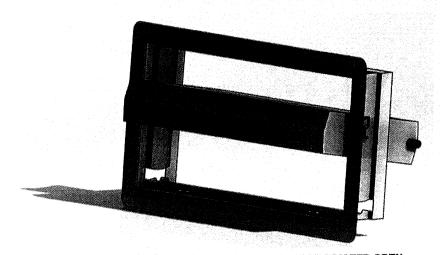


FIGURE 3-SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

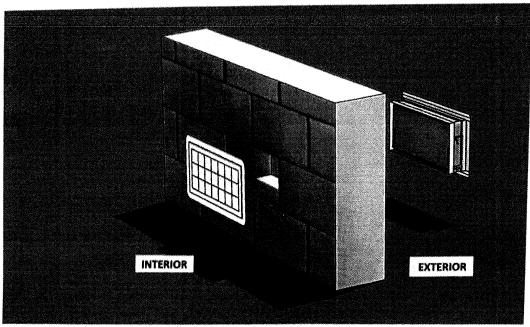


FIGURE 4-FLOOD VENT SEALING KIT