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.

SE	CTION A - PROPERTY INFO	DRMATION		FOR INSUF	RANCE COMPANY USE
A1. Building Owner's Name Don and Karen Ostrum				Policy Num	ber:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.#17 N. Lancaster Avenue			Company N	IAIC Number:	
City City of Margate		State New Jers	ey	ZIP Code 08402	
A3. Property Description (Logard Block 213.02 Lot 5	t and Block Numbers, Tax Par	cel Number, Leg	al Description, etc	c.)	
A4. Building Use (e.g., Resid	ential, Non-Residential, Additi	on, Accessory, e	tc.) Residentia	ıl .	
A5. Latitude/Longitude: Lat.	39.3282 Long	74.5058	Horizontal	Datum: NAD 1	1927 X NAD 1983
A6. Attach at least 2 photogr	aphs of the building if the Certi	ificate is being us	sed to obtain flood	d insurance.	
A7. Building Diagram Numbe	r7				
A8. For a building with a crav	/lspace or enclosure(s):				
a) Square footage of cra	wlspace or enclosure(s)	10	056.00 sq ft		
b) Number of permanent	flood openings in the crawlspa	ace or enclosure	 (s) within 1.0 foot	above adjacent gra	ade 6
c) Total net area of flood	openings in A8.b	1200.00 sq in			
d) Engineered flood oper	nings? 🛛 Yes 🗌 No				
A9. For a building with an atta					
a) Square footage of atta	ched garage	0.00 sq ft			
	flood openings in the attached		.0 foot above adia	acent grade 0	
c) Total net area of flood		0.00 sqi	•		
·	***************************************	0.00 341	11		
a) Engineered 1100d oper	ings? ☐ Yes ☒ No				
	SECTION B - FLOOD INSUF	RANCE RATE N	/IAP (FIRM) INF	ORMATION	
B1. NFIP Community Name 8		B2. County N			B3. State
CITY OF MARGATE & 34	15304	ATLANTIC C	OUNTY		New Jersey
B4. Map/Panel B5. Suffix Number	Date E		B8. Flood Zone(s)	B9. Base Flood E (Zone AO, use	levation(s) e Base Flood Depth)
34001C0434 F		1	AE	9	
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:					
FIS Profile X 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 Date:	☐ CBRS	S □ OPA			
-					

ELEVATION CERTIFICATE

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

			FOR INSURANCE COMPANY USE		
				Policy Number:	
City City of Margate		Code 402	Compa	ny NAIC N	Number
SECTION C - BUILD	DING ELEVATION INFORMA	TION (SURVEY R	EQUIRE	D)	
C1. Building elevations are based on: *A new Elevation Certificate will be required. C2. Elevations – Zones A1–A30, AE, AH, A (wind Complete Items C2.a–h below according to Benchmark Utilized: private Indicate elevation datum used for the elevation of the private of the elevation of the private of the elevation of the lowest horizontal structuration of the lowest horizontal structuration of the lowest elevation of machinery or equipment of the lowest elevation of machinery elevation eleva	onstruction Drawings*	ilding Under Constru ding is complete. BFE), AR, AR/A, AR/ I in Item A7. In Puert n: NAVD88 ow.	Chec 7.5 13.0 N/A	Finish A1–A30, A A1, enter n	asurement used. meters meters meters meters meters meters meters meters
(Describe type of equipment and location	•			x feet	☐ meters
 f) Lowest adjacent (finished) grade next to g) Highest adjacent (finished) grade next to 	,			x feet	☐ meters
h) Lowest adjacent (infished) grade flexition h) Lowest adjacent grade at lowest elevation structural support	- ' '				☐ meters
··	VEYOR, ENGINEER, OR AR	CHITECT CERTIFI	CATION	J	
This certification is to be signed and sealed by a I certify that the information on this Certificate re statement may be punishable by fine or imprisor Were latitude and longitude in Section A provide	a land surveyor, engineer, or ar epresents my best efforts to inte nment under 18 U.S. Code, Se	chitect authorized by erpret the data availa ction_1001	law to coble. I und	ertify eleva derstand to	ation information. hat any false e if attachments.
Certifier's Name	License Number				
Paul M. Koelling, PLS, CFM	NJ24GS 04328800				
Title Professional Land Surveyor Company Name Paul Koelling & Associates NJ C.O.A. 24GA28256300				Place Seal	
Address	2111/				ere
2161 Shore Road sox-F City Linwood	PHKsurvey@comcast.net State New Jersey	ZIP Code 08221			
Signature Faul Care	Date 5-6-20	Telephone (609) 927-0279	Ext.		
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) *A8b.) Smart Vents Model #1540-510 engineered for 200 square inches of net area each ***C2a.) crawlspace enclosure ****C2e.) exterior air unit (elev 18.7)furnace (elev 13.8)water heater (elev 14.4)					

ELEVATION CERTIFICATE

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IMPORTANT: In these spaces, copy the corresponding information from	FOR INSURANCE COMPANY USE				
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. #17 N. Lancaster Avenue	Route and Box No.	Policy Number:			
City State	ZIP Code	Company NAIC Number			
City of Margate New Jersey	08402				
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 the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).a) Top of bottom floor (including basement,	e boxes to show whethe	r the elevation is above or below			
crawlspace, or enclosure) is		rs 🔲 above or 🔲 below the HAG.			
b) Top of bottom floor (including basement, crawlspace, or enclosure) is		rs			
E2. For Building Diagrams 6–9 with permanent flood openings provided in S	ection 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		s above or below the HAG.			
E3. Attached garage (top of slab) is		s 🔲 above or 🔲 below the HAG.			
E4. Top of platform of machinery and/or equipment servicing the building is		rs			
E5. Zone AO only: If no flood depth number is available, is the top of the bot floodplain management ordinance? Yes No Unknown.		cordance with the community's certify this information in Section G.			
SECTION F - PROPERTY OWNER (OR OWNER'S F	REPRESENTATIVE) CE	ERTIFICATION			
The property owner or owner's authorized representative who completes Sec community-issued BFE) or Zone AO must sign here. The statements in Section 2015	ctions A, B, and E for Zo ons A, B, and E are cor	one A (without a FEMA-issued or rect to the best of my knowledge.			
Property Owner or Owner's Authorized Representative's Name					
Address City	St	ate ZIP Code			
Signature Date	Te	lephone			
Comments					
		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						
Building Street Address (including Apt., Unit, St #17 N. Lancaster Avenue	No.	Policy Number:				
City State ZIP Code City of Margate New Jersey 08402			Company NAIC Number			
SECTION	ON G - COMMUNITY INFORMATION (OPTIC	ONAL)				
The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.						
engineer, or architect who is authoriz data in the Comments area below.)	en from other documentation that has been si ed by law to certify elevation information. (Ind	licate 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 FEMA	-issued or community-issued BFE)			
G3. The following information (Items G4-	G10) is provided for community floodplain ma	anageme	nt purposes.			
G4. Permit Number	G5. Date Permit Issued		ate Certificate of ompliance/Occupancy Issued			
G7. This permit has been issued for:	New Construction Substantial Improvem	nent				
G8. Elevation of as-built lowest floor (including of the building:	g basement)	feet	meters Datum			
G9. BFE or (in Zone AO) depth of flooding at	the building site:	☐ feet	meters Datum			
G10. Community's design flood elevation:		feet	meters Datum			
Local Official's Name	Title	CFI	2			
Community Name MARCA	Telephone 776	609	1-822-1974			
Community Name Telephone $MRChTE$ Date $Signature$						
Comments (including type of equipment and loc	cation, per C2(e), if applicable)					
			Check here if attachments.			



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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



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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)†

[†]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

TARI	F 1.	MOD	EI SIZES

MODEL NAME	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
FloodVENT [®]	1540-520	$15^3/_4$ " $\times 7^3/_4$ "	200
- SmartVENT®	1540-510	15 ³ / ₄ " × 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

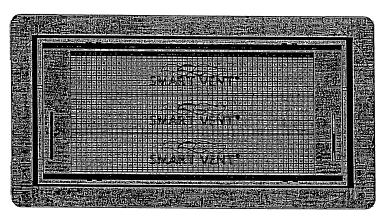


FIGURE 1-SMART VENT: MODEL 1540-510

Building Photographs

	For Insurance Company Use:		
Building Street Address (included #17 N. Lancaster Ave	Policy Number		
City	State	ZIP Code	Company NAIC Number
Margate	NJ	08402	

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two 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." If submitting more photographs than will fit on this page, use the Continuation Page on the reverse.





Front View – Date of Photograph: (See Photo Stamp)

Rear View – Date of Photograph: (See Photo Stamp)





Right Side View – Date of Photograph: (See Photo Stamp)

Vent View – Date of Photograph: (See Photo Stamp)