U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

OMB No. 1660-0008 Expiration Date: November 30, 2018

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.

			FOR INSU	RANCE COMPANY USE			
A1. Building Owner's Name PRAINO BUILDERS, LLC				Policy Num	ber:		
A2. Building Street Box No. 8705 MONMOUTH	,	cluding Apt., Unit, Suite	e, and/o	or Bldg. No.) or P.O.	. Route and	Company N	NAIC Number:
City				State	•	ZIP Code	
CITY OF MAR	Mar (1000)			New Jersey		08402	***************************************
A3. Property Desc Block 416 LOT 10	ription (Lot ar	nd Block Numbers, Tax	k Parce	l Number, Legal De	escription, etc.)		
A4. Building Use (e.g., Residen	tial, Non-Residential, A	Addition	n, Accessory, etc.)	RESIDENTIAL		
A5. Latitude/Longit	ude: Lat. <u>39</u>	0.3287	Long	74.5092	Horizontal Datun	n: NAD 1	1927 X NAD 1983
A6. Attach at least	2 photograph	ns of the building if the	Certific	cate is being used to	o obtain flood insura	ance.	
A7. Building Diagra	am Number	8					
A8. For a building v	with a crawls _i	pace or enclosure(s):					
a) Square foot	age of crawls	space or enclosure(s)		1,200 sq ft			
b) Number of p	permanent flo	ood openings in the cra	wlspac	e or enclosure(s) w	ithin 1.0 foot above	adjacent gr	ade6
c) Total net are	ea of flood op	enings in A8.b1,2	00 :	sq in			
d) Engineered	flood openin	gs? 🗷 Yes 🗌 No	ס				
A9. For a building with an attached garage:							
a) Square footage of attached garage 0 sq ft							
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 0							
d) Engineered flood openings?							
	SE	CTION B - FLOOD IN	ISURA	NCE RATE MAP	(FIRM) INFORMA	TION	
B1. NFIP Communi	THE RESERVED AND DESCRIPTIONS OF THE PROPERTY			B2. County Name		E .	B3. State
CITY OF MARGATI	E & 3453	304		ATLANTIC COUN	ITY		New Jersey
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	E	IRM Panel ffective/	B8. Flood Zone(s)	(Zoi	se Flood Elevation(s) ne AO, use Base od Depth)
345304/0001	С	10/18/1983		evised Date 3/1983	A8**	10**	и рериту
		Base Flood Elevation (90 W. 3		epth entered in Item	B9:	
☐ FIS Profile	▼ FIRM [Community Determ	ined [Other/Source:	· · · · · · · · · · · · · · · · · · ·		·
B11. Indicate eleva	tion datum us	sed for BFE in Item B9	: 🗵 N	GVD 1929 🔲 NA	VD 1988 ☐ Ott	ner/Source:	
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? 🔲 Yes 🗵 No							
Designation Date: CBRS OPA							
				22			

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corres	ponding information from Se	ction A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suit 8705 MONMOUTH AVENUE	e, and/or Bldg. No.) or P.O. Ro	ute and Box No.	Policy Number:
CITY OF MARGATE	State ZIP New Jersey 084	Code 102	Company NAIC Number
SECTION C - BUILD	ING ELEVATION INFORMA	TION (SURVEY RE	EQUIRED)
C1. Building elevations are based on: *A new Elevation Certificate will be required. C2. Elevations – Zones A1–A30, AE, AH, A (with Complete Items C2.a–h below according to Benchmark Utilized: private Indicate elevation datum used for the elevate NGVD 1929 NAVD 1988 Datum used for building elevations must be a) Top of bottom floor (including basement, b) Top of the next higher floor c) Bottom of the lowest horizontal structurally discrete discre	onstruction Drawings*	BFE) 8. 9 12. 5 N/A. N/A.	Check the measurement used. X Finished Construction
f) Lowest adjacent (finished) grade next tog) Highest adjacent (finished) grade next to	2, 2	8. <u>5</u> 8. <u>8</u>	X feet meters meters
 h) Lowest adjacent grade at lowest elevation structural support 	on of deck or stairs, including	N/A	X feet meters
	/EYOR, ENGINEER, OR ARC		
This certification is to be signed and sealed by a I certify that the information on this Certificate repstatement may be punishable by fine or imprison. Were latitude and longitude in Section A provided	presents my best efforts to inter ament under 18 U.S. Code, Sec	rpret the data availal tion 1001. —	law to certify elevation information. ble. I understand that any false Check here if attachments.
Certifier's Name Paul M. Koelling, PLS, CFM	License Number NJ24GS 04328800		
Title Licensed Land Surveyor Company Name Paul Koelling & Associates, LLC NJ C.O.A. No. Address 2161 Shore Road City Linwood Signature	State New Jersey Date	ZIP Code 08221 Telephone (609) 927-0279	Place Seal Here
Copy all pages of this Elevation Certificate and all a	attachments for (1) community of	1850 B	gent/company, and (3) building owner.
Comments (including type of equipment and local *A8b.) Smart Vents Model #1540-510 engineered **B8 & B9.) FEMA Pre-FIRM Zone "AE"Base F**C2a.) crawlspace ****C2a.) exterior air unit (elev 16.4)ductwork (tion, per C2(e), if applicable) If for 200 square inches of net a Flood Elevation 8 ft. (NAVD88)	rea each converted = 93 ft.	

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the correspond	nding information from	Section A.	FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, Suite, a 8705 MONMOUTH AVENUE	ind/or Bldg. No.) or P.O.	Route and Box No.	Policy Number:	
City CITY OF MARGATE		ZIP Code 08402	Company NAIC Number	
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,			s above or below the HAG.	
crawlspace, or enclosure) is		_ feet meter		
E2. For Building Diagrams 6–9 with permanent flood the next higher floor (elevation C2.b in the diagrams) of the building is	openings provided in Se	ction A Items 8 and/or		
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			s above or below the HAG.	
E5. Zone AO only: If no flood depth number is availa floodplain management ordinance? Yes [ble, is the top of the botto	om floor elevated in acc The local official must c	cordance with the community's certify this information in Section G.	
SECTION F - PROPERTY OV	VNER (OR OWNER'S RE	PRESENTATIVE) CE	RTIFICATION	
The property owner or owner's authorized representa community-issued BFE) or Zone AO must sign here.	tive who completes Secti The statements in Section	ons A, B, and E for Zons A, B, and E are corr	ne A (without a FEMA-issued or ect to the best of my knowledge.	
Property Owner or Owner's Authorized Representative's Name				
Address	City	Sta	te ZIP Code	
Signature	Date	Tel	ephone	
Comments			ž.	
			gi 2	
			9	
			a as	
			Check here if attachments.	

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corr			FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, S 8705 MONMOUTH AVENUE	uite, and/or Bldg. No.) or F	P.O. Route and Box No.	Policy Number:		
City CITY OF MARGATE	State New Jersey	ZIP Code 08402	Company NAIC Number		
SECTION	ON G - COMMUNITY INF	ORMATION (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, er	Certificate. Complete the				
	engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation				
G2. A community official completed Sect or Zone AO.	ion E for a building located	I in Zone A (without a FEI	MA-issued or community-issued BFE)		
G3. The following information (Items G4-	-G10) is provided for comm	nunity floodplain manage	ment purposes.		
G4. Permit Number	G5. Date Permit Issued	G6.	Date Certificate of Compliance/Occupancy Issued		
G7. This permit has been issued for:	New Construction S	ubstantial Improvement			
G8. Elevation of as-built lowest floor (including of the building:	g basement)	fe	et meters Datum		
G9. BFE or (in Zone AO) depth of flooding at	the building site:	fee	et meters Datum		
G10. Community's design flood elevation:	***************************************		et meters Datum		
Local Official's Name JIM GALANTINO	Т	itle CFM			
Community Name CITY OF MARGATE	T	elephone 609-822-1	974		
Signature		ate / (2//17	-		
Comments (including type of equipment and loc	cation, per C2(e), if applica	ible)			
			et .		
			Check here if attachments.		

Building Photographs

	See Instructions for Item A6.		
Building Street Address (incli 8705 Monmouth Ave	uding Apt., Unit, Suite, and/or Bldg.) No. or nue	P.O. Route and Box No.	Policy Number
City Margate	State NJ	ZIP Code 08402	Company NAIC Number
Margate	140	00402	

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)

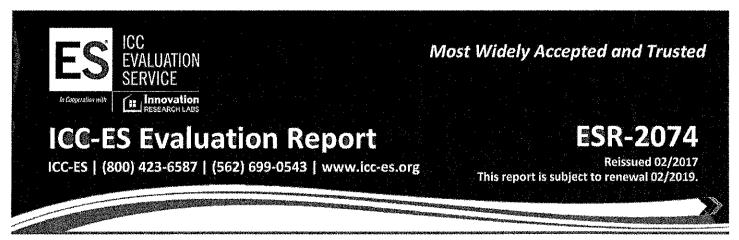
Rear View – Date of Photograph: (See Photo Stamp)





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

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



DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

REPORT HOLDER:

SMARTVENT PRODUCTS, INC.

430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071

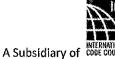
EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514



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ICC-ES Evaluation Report

ESR-2074

Reissued February 2017 Revised November 2017

This report is subject to renewal February 2019.

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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:

SMARTVENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (877) 441-8368 www.smartvent.com info@smartvent.com

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

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012, 2009 and 2006 International Building Code® (IBC)
- 2015, 2012, 2009 and 2006 International Residential Code® (IRC)
- 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.

4.0 DESIGN AND INSTALLATION

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.

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

Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015.

7.0 IDENTIFICATION

The Smart VENT® models 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).

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

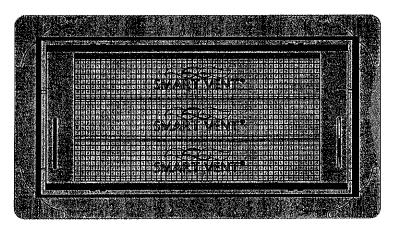


FIGURE 1—SMART VENT: MODEL 1540-510

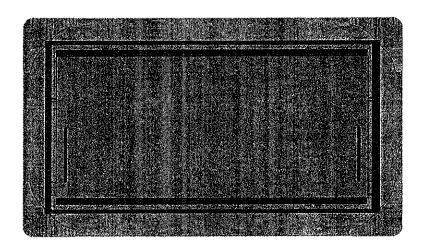


FIGURE 2-SMART VENT MODEL 1540-520

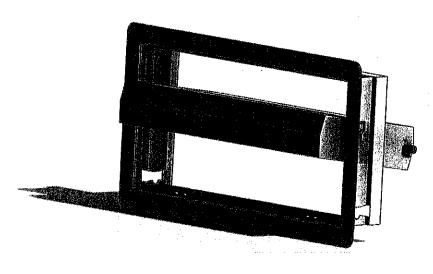


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN