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

Important: Follow the instructions on pages 1-9.

	3	, 2018
0CT - 9 2018		

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance and in the second sec

			FOR INSUF	RANCE COMPANY USE		
A1. Building Owner's Name Albert Torjman					Policy Num	ber:
A2. Building Street Address (in Box No. #100 North Delavan Avenue	cluding Apt., Unit, Suite	, and/c	r Bldg. No.) or P.O.	Route and	Company N	IAIC Number:
City CITY OF MARGATE			State New Jersey		ZIP Code 08402	
A3. Property Description (Lot a Block 304.03 Lot 18	nd Block Numbers, Tax	Parce	l Number, Legal De	scription, etc.)		
A4. Building Use (e.g., Resider	ntial, Non-Residential, A	ddition	, Accessory, etc.)	RESIDENTIAL		
A5. Latitude/Longitude: Lat. 3	9.3332 L	_ong	74.4983	Horizontal Datur	n: 🗌 NAD 1	1927 🗙 NAD 1983
A6. Attach at least 2 photograp	hs of the building if the	Certific	ate is being used to	o obtain flood insur	ance.	
A7. Building Diagram Number	7		а Т			
A8. For a building with a crawls	pace or enclosure(s):					
a) Square footage of craw	space or enclosure(s)		1,060 sq ft			
b) Number of permanent fl	ood openings in the cra	wlspac	e or enclosure(s) w	ithin 1.0 foot above	adjacent gr	ade 6
c) Total net area of flood o	penings in A8.b 1,20	00 \$	sq in			
d) Engineered flood openir	ngs? 🗙 Yes 🗌 No	D				
A9. For a building with an attac	hed garage:					
a) Square footage of attact	ned garage 0		sq ft	24		
b) Number of permanent fl	ood openings in the atta	ached g	garage within 1.0 fo	ot above adjacent	grade	0
c) Total net area of flood o	penings in A9.b	0	sq in			
d) Engineered flood openir	ngs? 🗌 Yes 🔀 No	D				
SE	CTION B - FLOOD IN	SUR			TION	
B1. NFIP Community Name & C		0010	B2. County Name			B3. State
CITY OF MARGATE & 345			ATLANTIC COUN			New Jersey
B4. Map/Panel B5. Suffix Number	B6. FIRM Index Date	E	IRM Panel ffective/	B8. Flood Zone(s	/ (Zo	se Flood Elevation(s) one AO, use Base
34001C0453 F	08/28/2018		evised Date 3/2018	AE	9	od Depth)
B10. Indicate the source of the	Base Flood Elevation (I	BFE) d	ata or base flood de	epth entered in Iter	n B9:	
🗌 FIS Profile 🔀 FIRM	Community Determ	ined	Other/Source:			
B11. Indicate elevation datum u	used for BFE in Item B9	: 🗌 N	IGVD 1929 🔀 NA	VD 1988 🗌 O	her/Source:	
B12. Is the building located in a	a Coastal Barrier Resou	rces S	ystem (CBRS) area	or Otherwise Prot	ected Area (OPA)? 🗌 Yes 🔀 No
Designation Date:						

ELEVATION CERTIFICATE	:		OMB No. 1660-0008 Expiration Date: November 30, 201
			FOR INSURANCE COMPANY US
Building Street Address (including Ap No. #100 North Delavan Avenue	it., Unit, Suite, and/or Bldg. No.) or	P.O. Route and Box	Policy Number:
City CITY OF MARGATE	State New Jersey	, ZIP Code 08402	Company NAIC Number
SECTION	C - BUILDING ELEVATION IN	FORMATION (SURVEY	REQUIRED)
C2. Elevations – Zones A1–A30, Al	be required when construction of	V (with BFE), AR, AR/A, A	R/AE, AR/A1–A30, AR/AH, AR/AO.
	or the elevations in items a) throug	al Datum: <u>NAVD88</u> gh h) below.	
	/D 1988 (C) Other/Source:		· · · · · · · · · · · · · · · · · · ·
Datum used for building elevation	ons must be the same as that used	a for the BFE.	Check the measurement used.
a) Top of bottom floor (includin	g basement, crawlspace, or enclos		feet i meters
b) Top of the next higher floor		11_1_	X feet I meters
c) Bottom of the lowest horizon	tal structural member (V Zones or	••	x feet meters
d) Attached garage (top of slat	b)	<u>N/A</u>	X feet 🗌 meters
e) Lowest elevation of machine (Describe type of equipment	ry or equipment servicing the build and location in Comments)		X feet 🗌 meters
f) Lowest adjacent (finished) g	rade next to building (LAG)	5.0	X feet 🗌 meters
g) Highest adjacent (finished) g	grade next to building (HAG)	6.0	X feet meters
h) Lowest adjacent grade at lov structural support	west elevation of deck or stairs, ind	cluding <u>4</u> . <u>6</u>	X feet meters
SECTIO	N D – SURVEYOR, ENGINEER,	, OR ARCHITECT CERTI	FICATION
This certification is to be signed and I certify that the information on this C statement may be punishable by fine	sealed by a land surveyor, engine Certificate represents my best effor o or imprisonment under 18 U.S. C	eer, or architect authorized rts to interpret the data ava Code, Section 1001.	by law to certify elevation information. <i>ilable. I understand that any fals</i> e
Were latitude and longitude in Section	on A provided by a licensed land s	urveyor? 🛛 Yes 🗌 No	Check here if attachments.
Certifier's Name Paul M. Koelling, PLS, CFM	License Nu NJ24GS 04		
Title	· .		
Licensed Land Surveyor			Place
Company Name Paul Koelling & Associates, LLC N	J C.O.A. No. 24GA28256300		Seal Here
Address 2161 Shore Road			
City Linwood	State New Jersey	ZIP Code 08221	
Signature	Date	Telephone	
1 ales	ele 10-9	(609) 927-0279	e agent/company, and (3) building own
Comments (including type of equipm *A8b.) Smart Vents Model #1540-510	ent and location, per C2(e), if app	licable)	
***C2a.) crawlspace			
****C2e.) ductwork elev (elev 9.0)	exterior air unit (elev 14)		

ELEVATION CERTI	FICATE			OMB No. 1660 Expiration Date	-0008 :: November 30, 2018
MPORTANT: In these spa	aces, copy the corre	esponding information	from Section A.		NCE COMPANY USE
Building Street Address (in #100 North Delevan Avenu	cluding Apt., Unit, Si	uite, and/or Bldg. No.) or	P.O. Route and Box	No. Policy Number	
City CITY OF MARGATE		State New Jersey	ZIP Code 08402	Company NAI	C Number
SE	ECTION E – BUILD FO	ING ELEVATION INFO R ZONE AO AND ZON	DRMATION (SURVE)	Y NOT REQUIRED)	tere çandığı analışı karalışı bir den alışını
For Zones AO and A (witho complete Sections A, B,an enter meters.	out BFE), complete It d C. For Items E1–E	ems E1–E5. If the Certi 4, use natural grade, if a	ficate is intended to su available. Check the m	pport a LOMA or LOM easurement used. In P	R-F request, uerto Rico only,
 Provide elevation infor the highest adjacent g a) Top of bottom floor 	rade (HAG) and the	lowest adjacent grade (I	priate boxes to show _AG).	whether the elevation is	above or below
crawlspace, or end b) Top of bottom floor	losure) is	· · · · · · · · · · · · · · · · · · ·	[]] feet [] meters 🗌 above o	below the HAG
crawlspace, or end	closure) is		feet [below the LAG.
 For Building Diagrams the next higher floor (e the diagrams) of the b 	elevation C2.b in	flood openings provide	d in Section A Items 8		-2 of Instructions), ⁻ ∏below the HAG
3. Attached garage (top of	-	· · · · · · · · · · · · · · · · · · ·	leet		below the HAG.
4. Top of platform of mac servicing the building i	chinery and/or equipr s	nent	[]feet [] meters	- ☐ below the HAG
5. Zone AO only: If no flo floodplain managemer	od depth number is a	available, is the top of th	e bottom floor elevate	and toward	ie community's
				-	
he property owner or own ommunity-issued BFE) or roperty Owner or Owner's	Zone AO must sign l	nere. The statements in	s Sections A, B, and E Sections A, B, and E	E for Zone A (without a are correct to the best	FEMA-issued or of my knowledge.
ddress			City	State	ZIP Code
ignature	<u></u>		Date	Telephone	
omments			·		ана на протоко и прот
•					
	•				
	·		. ·	• •	
	· · ·				
•					
				Check	here if attachments.

ELEVATION CERTIFICATE			OMB No. 1660-0008 Expiration Date: November 30, 2018
IMPORTANT: In these spaces, copy the	e corresponding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., L #100 North Delevan Avenue	Init, Suite, and/or Bldg. No.) or	P.O. Route and Box No.	p. Policy Number:
City CITY OF MARGATE	State New Jersey	ZIP Code 08402	Company NAIC Number
	ECTION G - COMMUNITY IN		
The local official who is authorized by lav Sections A, B, C (or E), and G of this Ele used in Items G8–G10. In Puerto Rico or	v or ordinance to administer th vation Certificate. Complete th	e community's floodolai	n management ordinance can complete
G1. The information in Section C w engineer, or architect who is au data in the Comments area bel	thorized by law to certify elevation	ation that has been sigr ation information. (Indica	ed and sealed by a licensed surveyor, ate the source and date of the elevation
G2. A community official completed or Zone AO.	Section E for a building locate	ed in Zone A (without a	FEMA-issued or community-issued BFE)
G3. The following information (Item	s G4–G10) is provided for con	nmunity floodplain mana	agement purposes.
G4. Permit Number	G5. Date Permit Issue	ed (36. Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction	Substantial Improvemer	nt
G8. Elevation of as-built lowest floor (ind of the building:	cluding basement)	, [feet 🗌 meters Datum
G9. BFE or (in Zone AO) depth of floodi	ng at the building site:	· · · · · · · · · · · · · · · · · · ·	feet [] meters Datum
G10. Community's design flood elevation	· · · · · · · · · · · · · · · · · · ·		feet 🗌 meters Datum
Local Official's Name	Galacter	Title C.F.A.	2
Community Name	Galactic An GAZE	Telephone	-822-1974
Signature	ncl	Date	12/18
(Comments (including type of equipment a	nd location, per C2(e), if appli		
			Check here if attachments.

.

Building Photographs

1	See Instructions for Iten	n A6.	For Insurance Company Use:
Building Street Address (inclu #100 North Delevan	ding Apt., Unit, Suite, and/or Bldg.) No. or P.O Avenue	. Route and Box No.	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 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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ESR-2074

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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)[†]

 $^{\dagger} \text{The ADIBC}$ 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,

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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

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installed with a minimum of one FV for every 400 square feet (37.2 m^2) 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).

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

TABLE 1-MODEL SIZES

For SI: 1 inch = 25.4 mm; 1 square foot = m^2

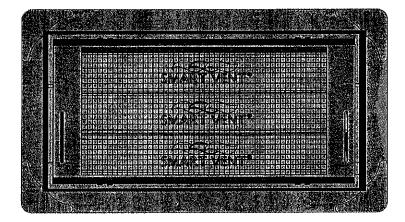


FIGURE 1-SMART VENT: MODEL 1540-510

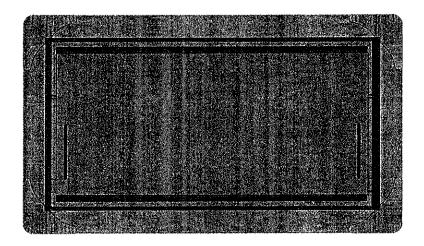


FIGURE 2-SMART VENT MODEL 1540-520

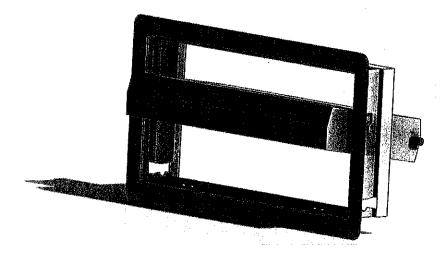


FIGURE 3-SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN