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

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

AUG 0 8 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.

SECTION A - PROPERTY INFORMATION					FOR INSU	RANCE COMPANY USE	
A1. Building Owner's Name Ben Chapman Development						Policy Num	ber:
A2. Building Street A Box No. 414 N Mansfield Aver	,	luding Apt., Unit, Suite	e, and/o	or Bldg. No.) or P.O.	Route and	Company N	NAIC Number:
City Margate				State New Jersey	,	ZIP Code 08402	
A3. Property Descrip Lot 24.01, Block 614	otion (Lot ar	id Block Numbers, Tax	k Parce	l Number, Legal De	scription, etc.)		
A4. Building Use (e.g	g., Resident	ial, Non-Residential, A	Addition	, Accessory, etc.)	Residential		
A5. Latitude/Longitud	de: Lat. N3	9°19'56.4"	Long. V	V74°30'39.2"	Horizontal Datun	n: NAD	1927 X NAD 1983
A6. Attach at least 2	photograph	s of the building if the	Certific	cate is being used to	o obtain flood insura	ance.	
A7. Building Diagram	Number	8					
A8. For a building wit	th a crawlsp	ace or enclosure(s):					
a) Square footag	ge of crawls	pace or enclosure(s)		1,125 sq ft			
b) Number of pe	rmanent flo	od 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 op	enings in A8.b 1,2	00 s	sq in			
d) Engineered flo	ood opening	gs? 🛛 Yes 🗌 No)				
A9. For a building with	h an attach	ad garage.					
_				og #			
		ed garage 0		sq ft	-		
		od openings in the atta			ot above adjacent g	grade	0
c) Total net area	of flood ope	enings in A9.b	0	sq in -			
d) Engineered flo	ood opening	gs? ☐ Yes ☒ N	0				
	SEC	CTION B - FLOOD IN	ISURA	NCE RATE MAP	(FIRM) INFORMA	TION	
B1. NFIP Community Margate City 345304	Name & Co	ommunity Number		B2. County Name Atlantic			B3. State New Jersey
B4. Map/Panel B Number	35. Suffix	B6. FIRM Index Date	E	IRM Panel ffective/ evised Date	B8. Flood Zone(s)	(Zo	se Flood Elevation(s) ne AO, use Base od Depth)
345304/0001 C	;	07/01/1974		/1983	A8	10.00	
B10. Indicate the sour	_	_			pth entered in Item	B9:	
☐ FIS Profile [2	X] FIRM [Community Determ	inea [Other/Source: _			
B11. Indicate elevatio	n datum us	ed for BFE in Item B9	: 🗵 N	GVD 1929 🔲 NA	VD 1988	ner/Source:	
B12. Is the building lo	cated in a	Coastal Barrier Resou	rces Sy	vstem (CBRS) area	or Otherwise Prote	cted Area (0	OPA)? ☐ Yes ※ No
Designation Date	e:		BRS	□ОРА			

ELEVATION CERTIFICATE

IMPORTANT: In these spaces, copy the corresponding	FOR INSURANCE COMPANY US		
Building Street Address (including Apt., Unit, Suite, and/ 414 N Mansfield Avenue	Policy Number:		
NA manustra	State ZIP Code New Jersey 08402		
SECTION C – BUILDING E	LEVATION INFOR	MATION (SURVEY F	REQUIRED)
 C1. Building elevations are based on: Construct	ion Drawings* construction of the b , VE, V1–V30, V (wi ilding diagram specifical Data items a) through h) if //Source: ne as that used for the pace, or enclosure filter er (V Zones only) vicing the building nments) if (LAG) ig (HAG) ick or stairs, including	Building Under Construction in the BFE, AR, AR/A, AF fied in Item A7. In Puer tum: NGVD 1929 below. The BFE. The BFE for the	Check the measurement used. Market meters Market meters
SECTION D – SURVEYOR,	ENGINEER, OR A	ARCHITECT CERTIFI	CATION
This certification is to be signed and sealed by a land sur I certify that the information on this Certificate represents statement may be punishable by fine or imprisonment un	der 18 U.S. Code, S	Rection 1001.	law to certify elevation information. ble. I understand that any false
Were latitude and longitude in Section A provided by a lic	ensed land surveyo	r? ⊠Yes □No	☑ Check here if attachments.
Certifier's Name James R. Boney, PLS Title	License Number 31264		
Professional Land Surveyor Company Name James R. Boney & Associates, LLC Address 13 Stone Mill Court City		1	Place Seal Here
Egg Harbor Twp	State New Jersey	ZIP Code 08234	
Signature	Date 04/02/2018	Telephone (609) 788-8013	
opy all pages of this Elevation Certificate and all attachmen	ts for (1) community		gent/company, and (3) building owner
comments (including type of equipment and location, per (including type of equipment and location, per (including the story frame dwelling on crawlspace with concrete for nechanicals are inside and at or above the finished floor.	C2(e), if applicable)	so is one (4) A/O	

ELEVATION CERTIFICATE

IMPORTANT: In these spaces, copy the correspon				FOR INSURANCE COMPANY U	JSE
Building Street Address (including Apt., Unit, Suite, a 414 N Mansfield Avenue	nd/or Bldg. No.) o	r P.O. Route and B	ox No.	Policy Number:	-
City	State	ZIP Code		Common NAIO Ni	
Margate	New Jersey	08402		Company NAIC Number	
SECTION E – BUILDING E FOR ZOI	LEVATION INFO	RMATION (SURY	/EY NOT	REQUIRED)	-
For Zones AO and A (without BFE), complete Items E complete Sections A, B,and C. For Items E1–E4, use enter meters.	1–F5. If the Certif	ficate is intended to	cupport a	LOMA or LOMR-F request, nent used. In Puerto Rico only,	
E1. Provide elevation information for the following an the highest adjacent grade (HAG) and the lowest	d check the appro adjacent grade (l	priate boxes to sho .AG).	w whether	the elevation is above or below	
 a) Top of bottom floor (including basement, crawlspace, or enclosure) is 		feet	meters	above or ☐ below the HA	G
 Top of bottom floor (including basement, crawlspace, or enclosure) is 					
·		[] feet			3.
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		-		
E3. Attached garage (top of slab) is	-	feet	☐ meters		
E4. Top of platform of machinery and/or equipment		feet	meters	above or below the HA	Э.
servicing the building is		feet	meters	above or below the HAC	Э.
E5. Zone AO only: If no flood depth number is availab floodplain management ordinance? Yes	le, is the top of the	e bottom floor eleva wn. The local offic	ited in acco	ordance with the community's ertify this information in Section G.	
SECTION F – PROPERTÝ OW	NER (OR OWNER	R'S REPRESENTA	TIVE) CEF	RTIFICATION	
The property owner or owner's authorized representati community-issued BFE) or Zone AO must sign here. T	ne statements in s	Sections A, B, and Sections A, B, and	I E for Zon E are corre	e A (without a FEMA-issued or ct to the best of my knowledge.	-
Property Owner or Owner's Authorized Representative	's Name				
Address		ity	State	e ZIP Code	
Signature	D	ate	Tele	phone	
Comments			· · · · · · · · · · · · · · · · · · ·		-
	1				
					l
				Check here if attachments.	

ELEVATION CERTIFICATE

PORTANT: In these spaces, copy the corresponding information from Section A. uilding Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.			FOR INSURANCE COMPANY US
414 N Mansfield Avenue	Suite, and/or Bldg. No.)	or P.O. Route and Box N	No. Policy Number:
City Margate	State New Jersey	ZIP Code 08402	Company NAIC Number
SECT	ION G - COMMUNITY I	NFORMATION (OPTIO	NAL)
The local official who is authorized by law or of Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, e	III Certificate. Complete	the community's floodpla the applicable item(s) an	in management ordinance can complete d sign below. Check the measurement
data in the Comments area below.)	ized by law to certify ele-	vation information. (Indic	ned and sealed by a licensed surveyor, ate the source and date of the elevation
G2. A community official completed Sec or Zone AO.	tion E for a building loca	ited in Zone A (without a	FEMA-issued or community-issued BFE)
G3. The following information (Items G4	-G10) is provided for co	mmunity floodplain man	agement purposes.
G4. Permit Number	G5. Date Permit Issu	ed	G6. Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction	Substantial Improvemen	nt :
G8. Elevation of as-built lowest floor (includin 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	longia	Title مرات الم	
Community Name MAY Community Name	TE,		22-1914
Signature ///C		Date Y/c	1/16
Comments (including type of equipment and loc	cation, per C2(e), if appli	cable)	/ 126
			Check here if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

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

IMPORTANT: In these spaces, o	FOR INSURANCE COMPANY USE		
Building Street Address (including 414 N Mansfield 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.

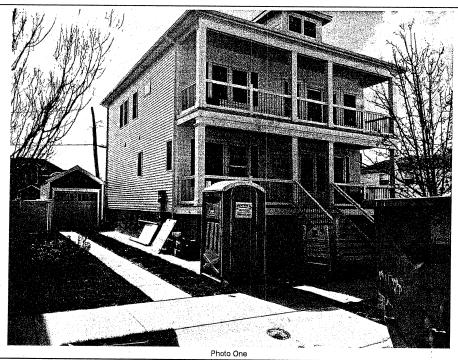


Photo One Caption Front 3/26/18

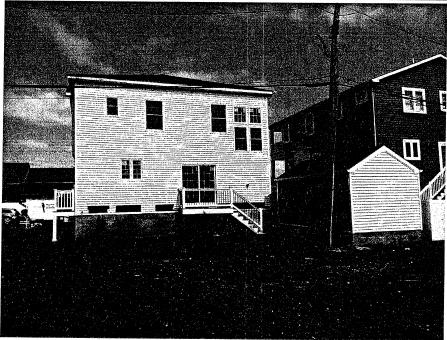


Photo Two

Photo Two Caption Rear 3/26/18

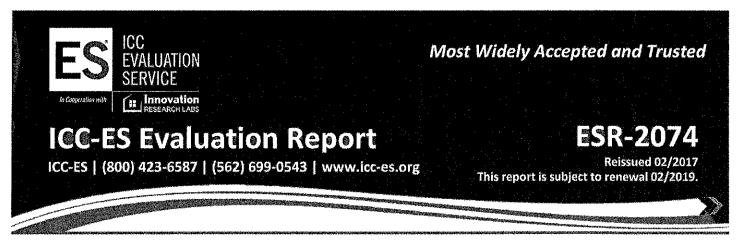
FEMA Form 086-0-33 (7/15)

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

IMPORTANT: In these spaces, copy the corresponding information		FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) o 414 N Mansfield Avenue	Policy Number:	
City State Margate New Jersey	ZIP Code 08402	Company NAIC Number
If submitting more photographs than will fit on the preceding page, with: date taken; "Front View" and "Rear View"; and, if required photographs must show the foundation with representative examples	affix the additional photogra , "Right Side View" and " of the flood openings or vent	aphs below. Identify all photographs 'Left Side View." When applicable, ts, as indicated in Section A8.
Photo (One	·
Photo One Caption	е	
Their one dupitor		
Photo T	wo	
Photo Two Caption		



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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Product Cartification Body



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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 $400 \text{ square feet } (37.2 \text{ m}^2) \text{ of enclosed area.}$

- 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

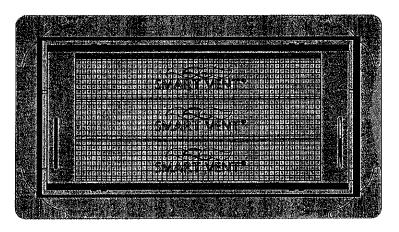


FIGURE 1—SMART VENT: MODEL 1540-510

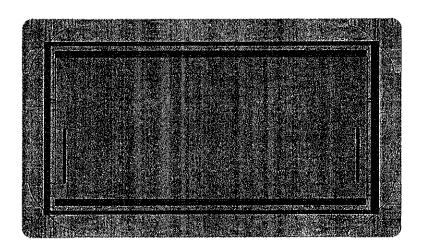


FIGURE 2-SMART VENT MODEL 1540-520

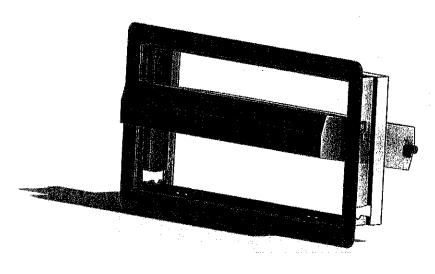


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN