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.

SECTION A - PROPERTY INFORMATION				FOR INSURANCE COMPANY USE			
A1. Building Own Natalie Stacchini	er's Name					Policy Num	ber:
A2. Building Stree Box No. 102 North Evergre		cluding Apt., Unit, Suite	e, and/o	or Bldg. No.) or P.O	. Route and	Company N	NAIC Number:
City Longport				State New Jersey	•	ZIP Code 08403	
	cription (Lot a	nd Block Numbers, Tax	Parce		escription, etc.)		
A4. Building Use (e.g., Residen	tial, Non-Residential, A	ddition	, Accessory, etc.)	Residential		
A5. Latitude/Longi	tude: Lat. N	39°19'06.57"	Long. V	V 074°31'29.01"	Horizontal Datum	n: NAD	1927 × NAD 1983
A6. Attach at least	2 photograp	hs of the building if the	Certific	cate is being used to	o obtain flood insura	ance.	
A7. Building Diagr	am Number	7					
A8. For a building	with a crawls	pace or enclosure(s):					
a) Square foo	tage of crawl	space or enclosure(s)		1,592 sq ft	it.		
b) Number of	permanent flo	ood openings in the cra	wlspac	e or enclosure(s) w	ithin 1.0 foot above	adjacent gr	ade8
c) Total net ar	ea of flood op	penings in A8.b1,6	00	sq in			
d) Engineered	flood openin	gs? 🗵 Yes 🗌 No)				
A9. For a building	with an attach	ed garage:					
a) Square foo	age of attach	ed garage376		sq ft			
b) Number of	permanent flo	ood openings in the atta	ached g	garage within 1.0 fo	ot above adjacent g	rade	2
c) Total net an	ea of flood op	enings in A9.b 4	00	sq in		-	
d) Engineered	flood openin	gs? ⊠ Yes □ No)				
	-	CTION B - FLOOD IN	SURA	NCE RATE MAP	(FIRM) INFORMA	TION	
B1. NFIP Communi Borough of Longpo		ommunity Number		B2. County Name Atlantic			B3. State New Jersey
B4. Map/Panel Number	B5. Suffix	B6, FIRM Index Date	E1	IRM Panel ffective/ evised Date	B8. Flood Zone(s)	(Zor	e Flood Elevation(s) ne AO, use Base nd Depth)
345302/0001	В	07/01/1974	08/15		A8	10	as sopuly
The second second second second second		Base Flood Elevation (B			pth entered in Item	B9:	
B11. Indicate eleva	tion datum us	sed for BFE in Item B9:	× N	GVD 1929 🗌 NA	VD 1988 🗌 Oth	er/Source:	
B12. Is the building	located in a	Coastal Barrier Resoul	ces Sy	stem (CBRS) area	or Otherwise Prote	cted Area (C	PPA)? ☐ Yes ☒ No
Designation D	ate:		BRS	☐ OPA			_
		-					

ELEVATION CERTIFICATE

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

MPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/o 102 North Evergreen Avenue	Policy Number:		
	ate ZIP w Jersey 084	Code 103	Company NAIC Number
SECTION C – BUILDING EL	EVATION INFORMA	TION (SURVEY F	REQUIRED)
C1. Building elevations are based on: Constructi *A new Elevation Certificate will be required when or		Iding Under Constr	ruction* Finished Construction
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), Complete Items C2.a–h below according to the buil Benchmark Utilized: GPS (KEYNET RTN)	VE, V1-V30, V (with B	FE), AR, AR/A, AF in Item A7. In Puer	R/AE, AR/A1–A30, AR/AH, AR/AO. rto Rico only, enter meters.
Indicate elevation datum used for the elevations in ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/	Source:		
Datum used for building elevations must be the san	ne as that used for the l	3FE.	Check the measurement used.
a) Top of bottom floor (including basement, crawls	oace, or enclosure floor)7. 2	X feet meters
b) Top of the next higher floor		16. 3	x feet meters
c) Bottom of the lowest horizontal structural member	er (V Zones only)	N/A	X feet meters
d) Attached garage (top of slab)		6.6	X feet meters
 e) Lowest elevation of machinery or equipment ser (Describe type of equipment and location in Con 	vicing the building nments)	15. 9	x feet meters
f) Lowest adjacent (finished) grade next to building	ı (LAG)	6, 4	X feet meters
g) Highest adjacent (finished) grade next to building	g (HAG)	<u>6</u> . 9	X feet meters
 h) Lowest adjacent grade at lowest elevation of dec structural support 	ck or stairs, including	6. 4	X feet meters
SECTION D - SURVEYOR,	ENGINEER, OR ARC	CHITECT CERTIF	ICATION
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	my best efforts to inter	pret the data availa	y law to certify elevation information. able. I understand that any false
Were latitude and longitude in Section A provided by a lie	censed land surveyor?	⊠Yes □ No	
Certifier's Name	License Number		
Steven C. Woodrow	27514		
Title Land Surveyor			
Company Name Place Dante Guzzi Engineering Associates Seal			
Address 418 Stokes Road			Here
City Medford	State New Jersey	ZIP Code 08055	
Signature two Wodro	Date 07/06/2016	Telephone (609) 654-4440	_
Copy all pages of this Elevation Certificate and all attachme	nts for (1) community of	ficial, (2) insurance	agent/company, and (3) building owner.
Comments (including type of equipment and location, per The property is located in PRELIMINARY FIRM #34001C NAVD88 subtract 1.3 feet. The lowest equipment visible a vents are "SMART VENT" Model #1540-510 certified to p	0434F Zone AE (el=9 Nat the time of the Survey	was the HVAC ur	nit located outside the building. All

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspor	nding information	from Section A.		FOR INSURANCE COMPANY USE
Building Street Address (including Apt , Unit, Suite, a 102 North Evergreen Avenue	nd/or Bldg. No.) or	P.O. Route and Bo	ox No.	Policy Number:
City Longport	State New Jersey	ZIP Code 08403		Company NAIC Number
SECTION E – BUILDING E FOR ZOI	LEVATION INFO	RMATION (SUR)	/EY NOT (FE)	REQUIRED)
For Zones AO and A (without BFE), complete Items E complete Sections A, B,and C. For Items E1–E4, use enter meters. E1. Provide elevation information for the following and the highest adjacent grade (HAG) and the lowes a) Top of bottom floor (including basement, experiences or englesces) is	natural grade, if a	vailable. Check the priate boxes to sho AG).	measurer	ment used. In Puerto Rico only, the elevation is above or below
crawlspace, or enclosure) is b) Top of bottom floor (including basement,		_	meter	
crawlspace, or enclosure) is			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	I in Section A Items	8 and/or	
E3. Attached garage (top of slab) is			meters	above or below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is		feet	meters	above or below the HAG.
E5. Zone AO only: If no flood depth number is availal floodplain management ordinance? Yes	ble, is the top of the	e bottom floor eleva wn. The local office	ated in acc cial must c	cordance with the community's ertify this information in Section G.
SECTION F - PROPERTY OW	VNER (OR OWNE	R'S REPRESENTA	TIVE) CE	RTIFICATION
The property owner or owner's authorized representation community-issued BFE) or Zone AO must sign here. Property Owner or Owner's Authorized Representative	The statements in \$	s Sections A, B, and Sections A, B, and	d E for Zor E are corr	ne A (without a FEMA-issued or ect to the best of my knowledge.
Address	C	City	Sta	te ZIP Code
Signature	С	Pate	Tele	ephone
Comments				
			¥	
				Check here if attachments.

ELEVATION CERTIFICATE

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

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 102 North Evergreen Avenue	
City State ZIP Code Longport New Jersey 08403	Company NAIC Number
SECTION G - COMMUNITY INFORMATION (OPTIC	ONAL)
The local official who is authorized by law or ordinance to administer the community's floodp Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) a used in Items G8–G10. In Puerto Rico only, enter meters.	lain management ordinance can complete and sign below. Check the measurement
G1. The information in Section C was taken from other documentation that has been si engineer, or architect who is authorized by law to certify elevation information. (Indicate in the Comments area below.)	licate the source and date of the elevation
G2. A community official completed Section E for a building located in Zone A (without or Zone AO.	a FEMA-issued or community-issued BFE)
G3. The following information (Items G4–G10) is provided for community floodplain ma	inagement purposes.
G4. Permit Number G5. Date Permit Issued	G6. Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for: New Construction Substantial Improvement	ent
G8. Elevation of as-built lowest floor (including basement) of the building:	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	
Community Name Telephone	
Signature Date	
Comments (including type of equipment and location, per C2(e), if applicable)	
	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, copy the corresponding information from Section A.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.

102 North Evergreen Avenue

City State ZIP Code Company NAIC Number
Longport New Jersey 08403

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 FRONT VIEW (07/05/2016)



Photo Two

Photo Two Caption REAR VIEW (07/05/2016)

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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

IMPORTANT: In these spaces, copy the corresponding information from Section A. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 102 North Evergreen Avenue			FOR INSURANCE COMPANY USE Policy Number:	
Longport	New Jersey	08403		

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 One

Photo One Caption RIGHT SIDE VIEW (07/05/2016)



Photo Two

Photo Two Caption LEFT SIDE VIEW (07/05/2016)



ICC-ES Evaluation Report

ESR-2074*

Reissued February 2015

This report is subject to renewal February 2017.

www.lcc-es.org | (800) 423-6587 | (562) 699-0543

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:

- 2012, 2009 and 2006 International Building Code[®] (IBC)
- 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 2.6.2.2 of ASCE/SEI 24 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. The mounting straps allow mounting in masonry and concrete walls up to 12 inches (305 mm) thick. In order to comply with the engineered opening design principle noted in Section 2.6.2.2 of ASCE/SEI 24, 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[®] #1540-511 Stacking Model 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

*Revised July 2015



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 October 2013 (editorially revised May 2014).

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 = m^2