U.S. DEPARIMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

1 .

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1–9.

OMB No. 1660-0008 Expiration Date: July 31, 2015

SECTION A – PROPERTY INFORMATION	FOR INSURANCE COMPANY USE								
A1. Building Owner's Name JUDY STOCK	Policy Number:								
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 114 HIGHLAND AVENUE	Company NAIC Number:								
City NEPTUNE State NJ ZIP Code 07753									
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) LOT 1, BLOCK 435									
 A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>RESIDENTIAL</u> A5. Latitude/Longitude: Lat. <u>N 40deg11.483min</u> Long. <u>W74deg02.453min</u> Horizontal Datu A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number <u>7</u> A8. For a building with a crawlspace or enclosure(s): A9. For a building with an atta at a square footage of crawlspace or enclosure(s) B0. Square footage of crawlspace or enclosure(s) A9. For a building with an atta at a square footage of at a building in the crawlspace or enclosure (s) A9. For a building with an atta a square footage of at a building within 1.0 foot above adjacent grade <u>5</u> A9. For a building with an atta a square footage of at a building within 1.0 foot above adjacent grade <u>5</u> A9. For a building with a crawlspace or enclosure (s) <u>825</u> sq ft A9. For a building with an atta a building within 1.0 foot above adjacent grade <u>5</u> A9. For a building with a crawlspace or enclosure (s) <u>825</u> sq ft A9. Total patters of flood openings in the crawlspace or enclosure (s) within 1.0 foot above adjacent grade <u>5</u> A9. Total patters of flood openings in A8 building the crawlspace or enclosure (s) within 1.0 foot above adjacent grade <u>5</u> 	 4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>RESIDENTIAL</u> 5. Latitude/Longitude: Lat. <u>N 40deg11.483min</u> Long. <u>W74deq02.453min</u> 6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. 7. Building Diagram Number <u>7</u> 8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s): b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 5. MW 								
d) Engineered flood openings? ⊠ Yes □ No d) Engineered flood openings?	penings? Xes No								
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATIO	ION								
B1. NFIP Community Name & Community Number B2. County Name NEPTUNE TWP. 340317 B2. County Name MONMOUTH	B3. State NJ								
B4. Map/Panel Number 34025C0333 F B5. Suffix F B6. FIRM Index Date 9/25/09 B7. FIRM Panel B8. Flood Effective/Revised Date 9/25/09 AE	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 9								
□ FIS Profile ⊠ 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)? F □ OPA SECTION C – BUILDING ELEVATION INFORMATION (SUBVEY REQUIDED) ■ ■ ■	xe: ? □ Yes ⊠ No								
 C1. Building elevations are based on: Construction Drawings* Building Under Construction* *A new Elevation Certificate will be required when construction of the building is complete. C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AI below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: LOCAL Vertical Datum: NAVD 1988 Indicate elevation datum used for the elevations in items a) through h) below. ARVD 1929 XAVD 1988 	Inished Construction IR/AH, AR/AO. Complete Items C2.a-h Other/Source:								
Datum used for building elevations must be the same as that used for the BFE.	ack the measurement used								
a) Top of bottom floor (including basement, growlenged, or onelegure floor) 76									
b) Top of the next higher floor 16.0	⊠ feet □ meters								
c) Bottom of the lowest horizontal structural member (V Zones only) <u>N.A</u>	☐ feet ☐ meters								
d) Attached garage (top of slab) <u>7.4</u>	⊠ feet □ meters								
e) Lowest elevation of machinery or equipment servicing the building <u>13.6</u> (Describe type of equipment and location in Comments)									
f) Lowest adjacent (finished) grade next to building (LAG) <u>6.5</u>	⊠ feet □ meters								
g) Highest adjacent (finished) grade next to building (HAG) 7.0	⊠ feet □ meters								
n) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support $\underline{7}.\underline{0}$									
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICAT	TION								
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevent information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. ☑ Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by licensed land surveyor? ☑ Check here if attachments. Icensed land surveyor?	vation by a P主体分析 意识注:								
License Number NJ PE LS 34691	61.20 Mill 104								
PRESIDENT Company Name THE CANNON GROUP, PC									
Address 100 JACK MARTIN BLVD. City BRICK State NJ ZIP Code 08724	· · · · · · · · · · · · · · · · ·								
Date 8//13 REV 2/1//1/ Telephone /32-458-0003	f ,								

		, Pointerior		
	orresponding information free	om Section A.	FC	DR INSURANCE COMPANY USE
	.nt, Suite, and/or Bldg. No.) or P.O. Route	and Box No.	Po	licy Number:
and the second se	State NJ	ZIP Code 07	753 Co	ompany NAIC Number:
SECTION	D - SURVEYOR, ENGINEER, OR ARC	HITECT CERT	IFICATION (CON	TINUED)
of this Elevation Certi	ficate for (1) community official, (2) insurance	agent/company,	and (3) building own	ier.
ABFE MAPS PLACE THE S VENT IN THE GARAGE ARI E RATED AT 200 SQ. IN. ONE VENT ADDED IN BASEMENT.	PROPERTY IN ZONE A 1% ELEVATION 10 E SMART VENT MODELRATED AT 200 SQ. MAC SMART VENT MODEL) IN. THE FLOOD 1540-520	VENTS IN THE BA	SEMENT
Signature Marta 1	Da	ate 8/7/13 REV. 3	2/17/17 MTC	
SECTION E - BUILDING ELE	VATION INFORMATION (SURVEY NOT	required)	FOR ZONE AO A	ND ZONE A (WITHOUT BFE)
 and C. For items E1-E4, use natural (E1. Provide elevation information for grade (HAG) and the lowest adja a) Top of bottom floor (including b) Top of bottom floor (including b) Top of bottom floor (including E2. For Building Diagrams 6–9 with (elevation C2.b in the diagrams) E3. Attached garage (top of slab) is E4. Top of platform of machinery and E5. Zone AO only: If no flood depth ordinance? Yes No 	Tade, if available. Check the measurement us the following and check the appropriate boxe icent grade (LAG). basement, crawlspace, or enclosure) is basement, crawlspace, or enclosure) is bermanent flood openings provided in Sectior of the building is feet feet feet d/or equipment servicing the building is number is available, is the top of the bottom f Unknown. The local official must certify this	sed. In Puerto Rices to show whether 	er the elevation is at eet determined meters determined r 9 (see pages 8–9 of ve or determined below the w the HAG. meters determined procordance with the ection G.	s. pove or below the highest adjacent above or below the HAG. above or below the LAG. of Instructions), the next higher floor HAG. ve or below the HAG. community's floodplain management
SECTION	F - PROPERTY OWNER (OR OWNER	'S REPRESEN	ITATIVE) CERTIF	ICATION
The property owner or owner's authorize or Zone AO must sign here. The stater F ty Owner's or Owner's Authorize	ed representative who completes Sections A nents in Sections A, B, and E are correct to the d Representative's Name	, B, and E for Zo he best of my kno	ne A (without a FEN wledge.	A-issued or community-issued BFE)
Address	City		State	ZIP Code
Signature	Date		Telephor	ne
Comments				
				Check here if attachments.
	SECTION G - COMMUNITY INFO	ORMATION (O	PTIONAL)	
The local official who is authorized by law of this Elevation Certificate. Complete the	or ordinance to administer the community's flo applicable item(s) and sign below. Check the	odplain manager measurement use	nent ordinance can c ed in Items G8-G10.	complete Sections A, B, C (or E), and G In Puerto Rico only, enter meters.
G1. The information in Section C v is authorized by law to certify	vas taken from other documentation that has elevation information. (Indicate the source an	been signed and Id date of the elev	sealed by a license vation data in the Co	d surveyor, engineer, or architect who omments area below.)
G2. A community official complete G3. The following information (Iten	d Section E for a building located in Zone A (ns G4–G10) is provided for community floodp	without a FEMA-i lain managemen	ssued or community t purposes.	vissued BFE) or Zone AO.
G4. Permit Number	G5. Date Permit Issued	G6. Date	Certificate Of Comp	liance/Occupancy Issued
G7. This permit has been issued for:	□ New Construction □ Substantia	I Improvement		
G8. Elevation of as-built lowest floor (in	cluding basement) of the building:	feet	meters [Datum
G9. BFE or (in Zone AO) depth of flood	ing at the building site:	feet	meters [Datum
G10. Community's design flood elevation): 	feet	meters (Datum
Local Official's Name		Title		
Community Name		Telephone	<u></u>	
() ture		Date		
Comments		a a constructive for the second s		Check here if attachments

ł

page 3 Building Photographs See Instructions for Item A6.

spaces, copy the corresponding in	iformation fro	om Section A.	FOR INSURANCE COMPAN	Y USE
(including Apt., Unit, Suite, and/or Bldg. No.)	or P.O. Route	and Box No.	Policy Number:	
, énue				· · ·
4	Stale NJ	ZIP Code 07753	Company NAIC Number:	· ·
·				

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.



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SURVEY/ENGR. DEPT.

Building Photographs Continuation Page

spaces, copy the c	orresponding information fro	om Section A.	FOR INSURANCE COMPANY	USE
,# (including Apt., Unit, Suit ENUE	ē, and/orBldg. No.) ör P.O. Routë a	and Box No.	Policy Number:	······································
	State NJ	ZIP Code 07753	Company NAIC Number:	

ating more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, notographs must show the foundation with representative exemples of the flood openings or vents, as indicated in Section A8.



Je1103

page 4

REAR/EAST SIDE 8/19/13

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ESR-2074

Reissued 02/2015 This report is subject to renewal 02/2017.

DIVISION: 08 00 00—OPENINGS SECTION: 08 95 43—VENT5/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

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ESR-2074*

Reissued February 2015

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A Subsidiary of the International Code Council®

This report is subject to renewal February 2017.

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)[†]

 $^{\rm T} \rm The ~ADIBC$ 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[®] 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

*Revised July 2015

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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).

	· · · · · · · · · · · · · · · · · · ·		
MODEL NAME		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
Wood Wall FloodVENT [®] Wood Wall FloodVENT [®] Overhead Door SmartVENT® Stacker FloodVent® Stacker	1540-514 1540-570 1540-574 1540-511 1540-521	15 /4" X / /4" 14" X 8 ³ /4" 14" X 8 ³ /4" 16" X 16" 16" X 16"	200 200 200 400 400

TABLE 1-MODEL SIZES

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

ELEVATION CERTIFICATE

IMPORTANT: Follow the instructions on pages 1–9.

OMB No. 1660-0008 Expiration Date: July 31, 2015

		SECTION /		FORMATI	ON I F		OMPANY USE
A1. Building Owne	r's Name EVEL YN S	TUMPE & SANDR	A SCHWEICHA	RDT		blicy Number:	
2. Building Stree	Address (including Apt	., Unit, Suite, and/or Blo	Ig. No.) or PO. Route	and Box No). Ca	ompany NAIC Numbe	er:
	NE		Stat	^e NJ	ZIP	^{Code} 07753	
A3. Property Desc BLOCK 556	ription (Lot and Block N , LOT 18	umbers, Tax Parcel Num	ber, Legal Descriptic	n, etc.)	. 8	levated s	tructure
A4. Building Use	e.g., Residential, NonR	esidential, Addition, Acce	essory, etc.) RESIC	ENTIAL			·····
A5. Latitude/Long A6. Attach at leas	itude: Lat. <u>40-11-27.3</u> t 2 photographs of the t	Duilding if the Certificate	ng. <u>74-01-34.100</u> is being used to ob	tain flood in:	Horizontal Da surance.	tum: 🗌 NAD 19:	27 💌 NAD 1983
A7. Building Diagr	am Number &	- closure(s):		A9 For a h	wilding with an attac	bed garage	
a) Square for	tage of crawlspace or e	nclosure(s) <u>1</u>	.047 sq ft	a) Sq	uare footage of atta	ched garage	<u>N/A</u> sq ft
 b) No. of per enclosure 	manent flood openings i s) within 1.0 foot above	n the crawlspace or <u>6</u> adjacent grade		b) Nu wit	mber of permanent t hin 1.0 foot above a	flood openings in t djacent grade	the attached garage
c) Total net a	rea of flood openings in	A8.b <u>1</u> ,	200*sq in	c) To	tal net area of flood (openings in A9.b	sq in
d) Engineere	d flood openings?	IYes ∐No		d) En	gineered flood openi	ings? □Yes	□ No
	SEC	tion B – Flood ins	SURANCE RATE	MAP (FIRM	() INFORMATION	I	
B1. NFIP Commun TOWNSHIP O	ty Name & Community - NEPTUNE / 340317	Number	B2. County Nam MONMOUTH	е		B:3.9 NEV	State V JERSEY
B4. Map/Panel Nu	mber B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Revised Dat	Effective/	B8. Flood Zone(s)	B9. Base Flood	Elevation(s) (Zone
34025C0334	F	09/25/2009	09/25/2	009	AE	AO, USE Das	9
B10. Indicate the s	ource of the Base Flood	Elevation (BFE) data or	base flood depth en	tered in Iter	n B9:		
FIS Profile	FIRM Comm	iunity Determined	Other/Source:				
B11. Indicate eleva	located in a Coastal Ba	rier Resources System	(CBRS) area or Oth	VV 1988 envise Prote	Uther/Source: _		
Designation D	ate://			erwise Frote			
	SECTI			ATION (S		.0)	
C1. Building eleva *A new Elevat	tions are based on: ion Certificate will be re ones A1-A30, AF, AH, A	Construction Drawi quired when constructio (with BEE), VE, V1–V30.	ngs* 🗌 Building is c	ng Under Co complete.	AR/A1-A30, AR/AH	Finished Constru	Litems
C2.a-h below Benchmark U	according to the buildin ilized: <u>CORS (LEICA S</u>	g diagram specified in It MARTNET)	em A7. In Puerto Rie	co only, ente Datum: <u>NAN</u>	r meters. /D 1988		
Indicate eleva Datum used f	tion datum used for the or building elevations m	elevations in items a) th ust be the same as that	nrough h) below. 🗌 used for the BFE.	NGVD 1929	NAVD 1988] Other/Source: _	
a) Top of bott	om floor (including base	ment, crawlspace, or en	closure floor)	7.9	Ifeet	meters	
b) Top of the	next higher floor			13_2	feet	meters	
c) Bottom of	he lowest horizontal str	uctural member (V Zone	s only)	N/A	feet	meters	
d) Attached g	arage (top of slab)			<u>N/A</u>	feet	meters	
e) Lowest ele (Describe t	vation of machinery or e ype of equipment and lo	equipment servicing the location in Comments)		_12 , 1	[x] feet	☐ meters	
f) Lowest adj	acent (finished) grade n	ext to building (LAG)		$\frac{7}{2} \cdot \frac{2}{4}$	feet	meters	
g) Highest ad	acent (finished) grade r	ext to building (HAG)		<u>8,1</u> 78	Ifeet	meters	
structural	support			⊻			
	SECT	ION D - SURVEYOR	ENGINEER. OR	ARCHITEC		N	
This certification is t	o be signed and sealed	by a land surveyor, engi	neer, or architect au	thorized by I	aw to certify elevatio	n	
information. I certify I understand that an	that the information on / false statement may be	this Certificate represent punishable by fine or in	s my best efforts to nprisonment under 1	interpret the 8 U.S. Code	data available. Section 1001		
□ Check here if con □ Check here if atta	ments are provided on chments.	back of form. Were licen	latitude and longitu sed land surveyor?	ide in Sectio	n A provided by a		
Certifier's Name GEORGE W. ED'	WARDS, PLS			License N 24GS01	imber 900:200		filaut. SEAL
ROFESSIONAL	LAND SURVEYOR	Com	pany Name VARDS SURVEY	ING	<u></u>		HERE
Address 1335 SUNSET A	/ENUE	POI	NT PLEASANT	State NJ	ZIP Code 08742		
Signature <i>H</i>	nai 7/ E	Date Date 08/0	5/2014	Telephone 732-892-	4010		

FEMA Form 086-0-33 (7/12)

an meac apovea, oupy m	ne corresponding information fro	m Section A.	li F	FOR INSURANCE COMPANY USE
treet Address (including Apt.	, Unit, Suite, and/or Bldg. No.) o	r P.O. Route and Box No.	F	Policy Number:
	State	ZIP Code		Company NAIC Number:
SECTION				
SECTION	ficate for (1) community official	(2) insurance agent/com	RIFICATION (CUI	
omments ages at L VENTS ARE				
ABC) ALL VENTS ARE	SWARTVENTS AND ARE RA	ATED FOR 200 SQUA		
SMART VENT MODE	L NO. 1540-510			
ignature Manues, W.	Edwards.	Date 08/05/2	:014	
SECTION E - BUILDING ELE	VATION INFORMATION (SU	RVEY NOT REQUIRED) FOR ZONE AO A	ND ZONE A (WITHOUT BFE)
or Zones AO and A (without BFE), com or Items E1–E4, use natural grade, if	nplete Items E1–E5. If the Certific available. Check the measureme	cate is intended to suppo ent used. In Puerto Rico o	rt a LOMA or LOMR-F r nly, enter meters.	request, complete Sections A, B, and
 Provide elevation information for th grade (HAG) and the lowest adjace 	ne following and check the approper integrate (LAG).	priate boxes to show whe	ther the elevation is at	bove or below the highest adjacent
a) Top of bottom floor (including ba	sement, crawlspace, or enclosur	e) is	feet meters	\Box above or \Box below the HAG.
b) Top of bottom floor (including ba	sement, crawlspace, or enclosur	e) is	feet meters	\Box above or \Box below the LAG.
2. For Building Diagrams 6–9 with per	rmanent flood openings provided	in Section A Items 8 and	/or 9 (see pages 8-9	of Instructions),
the next higher floor (elevation C2.	b in the diagrams) of the building	; is	feet meters	above or below the HAG.
3. Attached garage (top of slab) is				\Box above or \Box below the HAG.
4. Top of platform of machinery and/o	or equipment servicing the buildi	ng is	feet imeters	\Box above or \Box below the HAG.
ordinance? Yes No	nber is available, is the top of th Jnknown. The local official must (e bottom floor elevated in certify this information in	Section G.	community's floodplain management
SECTION	F PROPERTY OWNER (0	R OWNER'S REPRES		FICATION
he property owner or owner's authoriz	red representative who complete	s Sections A B and F for	Zone A (without a FF	MAissued or community-issued BEF)
one AO must sign here. The statemer	nts in Sections A, B, and E are co	prrect to the best of my kr	nowledge.	
roperty Owner or Owner's Authorized F	Representative's Name			
ddress	······································	City	State	e ZIP Code
ignature	· · · · · · · · · · · · · · · · · · ·	Date	Teler	phone
omments				
				Check here if attachments
· · · · · · · · · · · · · · · · · · ·	SECTION G - COMM			
he local official who is authorized by la	w or ordinance to administer the		nagement ordinance c	an complete Sections A. B. C. (or E) at
of this Elevation Certificate. Complete	e the applicable item(s) and sign t	below. Check the measure	ment used in Items G8	-G10. In Puerto Rico only, enter mete
1. The information in Section C who is authorized by law to ce	was taken from other document ertify elevation information. (Ind	ation that has been sign icate the source and date	ed and sealed by a lice e of the elevation data	ensed surveyor, engineer, or archite a in the Comments area below.)
2. 🗌 A community official complete	ed Section E for a building located	d in Zone A (without a FEN	MA-issued or communi	tyissued BFE) or Zone AO.
3. 🔲 The following information (Ite	ms G4G9) is provided for comr	nunity floodplain manage	ement purposes.	
4. Permit Number	G5. Date Permit Issued	G6.	. Date Certificate Of Co	ompliance/Occupancy Issued
7. This permit has been issued for:	New Construction	Substantial Improvement		
8. Elevation of asbuilt lowest floor (i	including basement) of the buildi	ng:	☐ feet ☐ meters	Datum
9. BFE or (in Zone AO) depth of floor	ding at the building site:	·	feet meters	Datum
10. Community's design flood elevation	on:	·	L feet L meters	Datum
ocal Official's Name		Title	· · · · · · · · · · · · · · · · · · ·	
ommunity Name		Telephone		t

Check here if attachments.

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

ANT: In these spaces, copy th	e corresponding information from Section A.	FOR INSURANCE COMPANY USE
ing Street Address (including Apt.	, Unit, Suite, and/or Bldg. No.) or PO. Route and Box No.	Policy Number:
NEPTUNE	State ZIP Code NJ 07753	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.



FRONT VIEW 21 ALBANY ROAD NEPTUNE, NJ AUGUST 5, 2014



REAR VIEW 21 ALBANY ROAD NEPTUNE, NJ AUGUST 5, 2014

1

RTIFICATE, page 4

BUILDING PHOTOGRAPHS

Continuation Page

ANT: In these spaces, copy	y the corresponding information from Section A.	FOR INSURANCE COMPANY USE
ing Street Address (including Address (ALBANY ROAD	pt., Unit, Suite, and/or Bldg. No.) or ₽O. Route and Box No.	Policy Number:
	State ZIP Code NJ 07753	Company NAIC Number:

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.



SMART VENT (TYPICAL) 21 ALBANY ROAD NEPTUNE, NJ AUGUST 5, 2014



A/C PLATFORM 21 ALBANY ROAD NEPTUNE, NJ AUGUST 5, 2014



ICC-ES Evaluation Report

MostWidely Accepted and Trusted

Reissued December 1, 2012

ESR-2074*

This report is subject to renewal February 1, 2015.

www.icc-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 <u>www.smartvent.com</u> Info@smartvent.com

EVALUATION SUBJECT:

SMART VENT[®] AUTOMATIC FOUNDATION FLOOD VENTS: FLOODVENT[™] MODEL #1540-520; FLOODVENT[™] STACKING MODEL #1540-521; SMARTVENT[™] MODEL #1540-510; SMARTVENT[™] STACKING MODEL #1540-611; WOOD WALL FLOOD MODEL #1540-570; WOOD WALL FLOOD OVERHEAD DOOR MODEL #1540-574; FLOODVENT[™] OVERHEAD DOOR MODEL #1540-524; SMARTVENT[™] OVERHEAD DOOR MODEL #1540-514

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2009 and 2006 International Building Code[®] (IBC)
- 2009 and 2006 International Residential Code[®] (IRC)

Properties evaluated:

- Physical operation
- Water flow
- 2.0 USES

The Smart Vent[●] units are automatic foundation flood vents (AFFVs) employed to equalize hydrostatic pressure on nonfire-resistance-rated foundation walls, rolling-type overhead doors and building walls subject to rising or falling flood waters. The Smart Vent[●] units are intended for use where flood hazard areas have been established in accordance with IBC Section 1612.3 or IRC Section R3222.1. Certain models also allow natural ventilation in accordance with Section 1203 of the IBC or Section 408.1 of the IRC.

3.0 DESCRIPTION

3.1 General:

When subjected to pressure from rising water, the Smart Vent[®] AFFVs disengage, 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 AFFV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water, the subject device causes the unit to unlatch, allowing the plate to rotate out of the way and allow flow. The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. The SmartVENTTM Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

3.2 Engineered Opening:

The AFFVs 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 AFFVs must be Installed in accordance with Section 4.0.

3.3 Model Sizes:

The FloodVENTTM Model #1540-520, SmartVENTTM Model #1540-510, FloodVENTTM Overhead Door Model #1540-524, and SmartVENTTM Overhead Door Model #1540-514 units measure $15^3/_4$ lipches wide by $7^3/_4$ inches high (400 by 196.9 mm). The Wood Wall Flood Model #1540-570 and Wood Wall Flood Overhead Door Model #1540-574 units measure 14 inches wide by $8^3/_4$ inches high (355.6 by 222.25 mm). The SmartVENTTM Stacking Model #1540-511 and FloodVENTTM Stacking Model #1540-521 units measure 16 inches wide by 16 inches high (406.4 by 406.4 mm).

3.4 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 SmartVENTTM 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 AFFVs recognized in this report do not offer natural ventilation.

4.0 INSTALLATION

SmartVENT⁴ and FloodVENT⁷⁷⁴ 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 wood, masonry and

*Revised July 2013

ICC-ES Evaluation Reports are not to be construed as representing sosthetnes or any other antibutes not specifically addressed, nor are they to be construct as an endownement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.



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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[®] AFFVs must be installed as follows;

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one AFFV 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 AFFV for every 400 square feet (37.2 m²) of enclosed area,
- Below the base flood elevation.
- **a** With the bottom of the AFFV located a maximum of 12 inches (305.4 mm) above grade.

5.0 CONDITIONS OF USE

The Smart Vent[®] AFFVs 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[®] AFFVs 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[®] AFFVs 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 Automatic Foundation Flood Vents (AC364), dated October 2007.

7.0 IDENTIFICATION

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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).

U.S. DEPAR THENT OF HOMELAND SECURITY
FEDERAL EMERGENC YMANAGEMENT AGENC
National Flood Insurance Program

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

OMB No. 1660-0008 Expiration Date: July 31, 2015

<u> </u>					
A1.	Building Owner's Name MARY LAUDICE	JESTISKA - MOFER		Policy	Number:
	Building Street Address (including Apt., Unit, Suite, 55 STOCKTON AVENUE	and/or Bldg. No.) or P.O. Rou	te and Box No.	Compa	ny NAIC Number.
	City TOWNSHIP OF NEPTUNE	State NJ	ZIP Code 07760		
A3.	Property Description (Lot and Block Numbers, Tax BLOCK 44 LOT 1845	Parcel Number, Legal Descrip	tion, etc.)		
A4. A5. A6. A7. A8.	 Building Use (e.g., Residential, Non-Residential, Ad Latitude/Longitude: Lat. <u>N 40°12'28.0'"</u> Long. <u>W</u> Attach at least 2 photographs of the building if the C Building Diagram Number <u>6</u> For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) b) Number of permanent flood openings in the craw or enclosure(s) within 1.0 foot above adjacent ge c) Total net area of flood openings in A8.b d) Engineered flood openings? ⊠ Yes [Idition, Accessory, etc.) <u>RESI</u> 074°00' 30.4 " Certificate is being used to obl <u>876</u> sq ft wlspace rade <u>7</u> <u>1050</u> sq in] No	DENTIAL Horizon ain flood insurance. A9. For a building wi a) Square foota b) Number of po within 1.0 foo c) Total net are d) Engineered f	tal Datum: NA th an attached gar uge of attached ga ermanent flood op ot above adjacent a of flood opening flood openings?	AD 1927 🛛 NAD 1983 rage: rage <u>N/A</u> sq ft enings in the attached garage grade <u>N/A</u> s in A9.b <u>N/A</u> sq in Yes 🖂 No
	SECTION B – F	LOOD INSURANCE RAT	E MAP (FIRM) INFO		
B1. Nur	NFIP Community Name & Community mber TOWNSHIP OF NEPTUNE 340317	B2. County Name MONMOUTH		B3. Sta NJ	te
B4	4. Map/Panel Number B5. Suffix B6. FIRM 34025C033 F 09/25	Index Date B7. FIRM 5/2009 Effective/Re 09/25	I Panel B8. vised Date Zo 2009	Flood B9. ne(s) X	Base Flood Elevation(s) (Zone AO, use base flood depth) N/A
B11. B12.	☐ FIS Profile ⊠ FIRM ☐ Commu Indicate elevation datum used for BFE in Item B9: Is the building located in a Coastal Barrier Resource Designation Date:	nity Determined C NGVD 1929 N es System (CBRS) area or O CBRS	ther/Source: AVD 1988	r/Source: (OPA)?	🗌 Yes 🛛 No
. //.	SECTION C - BUIL	DING ELEVATION INFO	RMATION (SURVEY	REQUIRED)	ĥ
C1. C2.	Building elevations are based on: Constru- *A new Elevation Certificate will be required when co Elevations – Zones A1–A30, AE, AH, A (with BFE), N below according to the building diagram specified in Benchmark Utilized: <u>LOCAL</u> Indicate elevation datum used for the elevations in its	ction Drawings*	Building Under Construct mplete. , AR/A, AR/AE, AR/A1- enter meters. <u>AVD 1988</u> IGVD 1929 □ NAVD 1	:tion* ⊠ F -A30, AR/AH, AR/ 988 ⊠ Other/Sou	AO. Complete Items C2.a-h
	Datum used for building elevations must be the same	e as that used for the BFE.		Check the mea	asurement used.
	 a) Top of bottom floor (including basement, crawlspa b) Top of the next higher floor c) Bottom of the lowest horizontal structural member d) Attached garage (top of slab) e) Lowest elevation of machinery or equipment service 	ce, or enclosure floor) (V Zones only) cing the building	<u>9.3</u> 13.0 11.3 N./A 12.3	⊠ feet ⊠ feet ⊠ feet ⊠ feet ⊠ feet	 meters meters meters meters meters meters
!	(Describe type of equipment and location in Comm f) Lowest adjacent (finished) grade next to building (g) Highest adjacent (finished) grade next to building (h) Lowest adjacent grade at lowest elevation of deck	nents) LAG) (HAG) or stairs, including structural	<u>8.6</u> 9.4 support <u>8.4</u>	⊠ feet ⊠ feet ⊠ feet	☐ meters ☐ meters ☐ meters
	SECTION D - SU	RVEYOR, ENGINEER, OF	ARCHITECT CERT	IFICATION	
	s certification is to be signed and sealed by a land su ormation. I certify that the information on this Certifican oderstand that any false statement may be punishable Check here if comments are provided on back of fo Check here if attachments. tifier's Name WILLIAM H. ZIEMAN, JR.	rveyor, engineer, or architect te represents my best efforts e by fine or imprisonment und rm. Were latitude and lo licensed land survey Lice Name C.C. WIDDIS SURVE	authorized by law to cer to interpret the data ava er 18 U.S. Code, Sectio ngitude in Section A pro or?	tify elevation <i>il able.</i> n 1001. vided by a No	PLACE SEAL HERE
Add	dress 175 BROADWAY City LONG	BRANCH Stat	NJ ZIP Code 0774	40	

FEMA Form 086-0-33 (7/12)

	opy the corresponding information from	Section A.	FOR INSURANCE COMP.	
Building Street Address (including Apt. 55 STOCKTON AVENUE	, Unit, Suite, and/or Bldg. No.) or P.O. Route and	d Box No.	Policy Number:	
City RUMSON	State NJ	ZIP Code 07756	Company NAIC Number	
SECTION	D - SURVEYOR, ENGINEER, OR ARCHI	TECT CERTIFICATION (CONTINUED)	N. S.
Copy both sides of this Elevation Certil	ficate for (1) community official, (2) insurance ag	ent/company, and (3) building	g owner.	
Comments B8 Flood Zone & B9 Floo Refer to FEMA BFE webs Hot Water in utility room a 7 Smart Vents -Model No	d Elevation refer to FEMA Maps of Township of site and municipal construction officials before bu at Elev=12.3, Furnace in attic, A/c raised on decl .1540-520.	Neptune and are for insurand uilding or elevating structures < at Elev=12.5. Crawl Space (ce purposes only. Opening 2' x 2.6	4 /
Signature	- Date	7/15/2014		
SECTION E - BUILDING ELE	VATION INFORMATION (SURVEY NOT F	REQUIRED) FOR ZONE A	O AND ZONE A (WITHOUT BFE)	
For Zones AO and A (without BFE), co and C. For Items E1–E4, use natural g	omplete Items E1–E5. If the Certificate is intende grade, if available. Check the measurement used	ed to support a LOMA or LOM d. In Puerto Rico only, enter n	IR-F request, complete Sections A, B, neters.	
 E1. Provide elevation information for grade (HAG) and the lowest adja a) Top of bottom floor (including b) Top of bottom floor (including E2. For Building Diagrams 6–9 with (elevation C2.b in the diagrams) E3. Attached garage (top of slab) is 	the following and check the appropriate boxes t acent grade (LAG). basement, crawlspace, or enclosure) is basement, crawlspace, or enclosure) is permanent flood openings provided in Section A of the building is feet m feet meters abov	o show whether the elevation	is above or below the highest adjacent above or below the HAG. below the LAG. 8–9 of Instructions), the next higher floor the HAG.	or
E4. Top of platform of machinery andE5. Zone AO only: If no flood depth	I/or equipment servicing the building is number is available, is the top of the bottom floc	[] feet [] meters [] or elevated in accordance with	above or below the HAG. the community's floodplain management	ent .
ordinance? Yes No SECTION] Unknown. The local official must certify this in F - PROPERTY OWNER (OR OWNER'S	formation in Section G.		
The property owner or owner's authorit	red representative who completes Sections A	and E for Zono A (without a	EEMA issued or community issued REE	
or Zone AO must sign here. The stater	nents in Sections A, B, and E are correct to the	best of my knowledge.	rema-issued of community-issued Bre	E)
Property Owner's or Owner's Authorize				
Address	City	Stat	e ZIP Code	· · ·
Signature	Date	Tele	ephone	
Comments				
-				
t.			Check here if attachme	ents.
	SECTION G - COMMUNITY INFOR	MATION (OPTIONAL)		
he local official who is authorized by law f this Elevation Certificate. Complete the	r or ordinance to administer the community's flood applicable item(s) and sign below. Check the me was taken from other documentation that has be	plain management ordinance asurement used in Items G8- an signed and sealed by a lic	can complete Sections A, B, C (or E), and G10. In Puerto Rico only, enter meters.	id G
is authorized by law to certify	elevation information. (Indicate the source and c	date of the elevation data in the	ne Comments area below.)	110
2. A community official complete	d Section E for a building located in Zone A (with	hout a FEMA-issued or comm	nunity-issued BFE) or Zone AO.	
3. I he following information (Iten	ns G4–G10) is provided for community floodplai	n management purposes.		
G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of C	compliance/Occupancy Issued	
7. This permit has been issued for:	New Construction Substantial In	nprovement		
8. Elevation of as-built lowest floor (in	cluding basement) of the building:	_ feet _ meters	Datum	
9. BFE or (in Zone AO) depth of floor	ling at the building site:	_ feet _ meters	Datum	
10. Community's design flood elevation	n:	_	Datum	
Local Official's Name	Ti	tle		
Community Name	Te	elephone		
Signature	D	ate		
Comments				
			Check here if attachme	ents.

ATTICATE, page	Building Photographs See Instructions for Item A6.	:
π : In these spaces, copy t	he corresponding information from Section A.	FOR INSURANCE COMPANY USE
areet Address (including Apt., Unit, STOCKTON AVENUE	Suite, and/or Bldg. No.) or P.O. Route and Box No.	Policy Number:
AUMSON	State NJ ZIP Code 0775	56 Company NAIC Number:
ji		

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.



Buildi	ng Phot Continuation I	ographs Page	
IMPORTANT: In these spaces, copy the corresponding i	information fr	om Section A.	FOR INSURANCE COMPANY
Building StreetAddress (including Apt., Unit, Suite, and/or Bldg. No 55 STOCKTON AVENUE	o.) or P.O. Route	and Box No.	Policy Number:
City RUMSON	State NJ	ZIP Code 07756	Company NAIC Number:

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.





RIGHT SIDE VIEW



11 - K - C

Ξ

Replaces all previous editions.

1

U.S. DEPARIMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

ELEVATION CERTIFICATE

IMPORTANT: Follow the instructions on pages 1-9.

OMB No. 1660-0008 Expiration Date: July 31, 2015

SECTI	ION A -	PROPERTY IN	FORMAT	ION	FOR INSURANCE	CE COMPANY USE
A1. Building Owner's Name Richard & Christine Carls	on				Policy Number;	
A2. Building Street Address (including Apt., Unit, Suite, and/ 225 South Riverside Drive	or Bldg.	No.) or PO. Route	and Box No	р.	Company NAIC N	umber:
City Neptune Township		State	Ŋ		ZIP Code 0775	53
A3. Property Description (Lot and Block Numbers, Tax Parcel Lot 17 Block 427	I Number	r, Legal Description	n, etc.)	· E	levated	structure
 A4. Building Use (e.g., Residential, Non-Residential, Addition A5. Latitude/Longitude: Lat. <u>40 11 20 50</u> A6. Attach at least 2 photographs of the building if the Certi A7. Building Diagram Number 7 A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) b) Number of permagent flood openings in the grawlspace 	1, Access Long ficate is <u>17</u>	sory, etc.) <u>Reside</u> . <u>74 02 20.58</u> being used to obt <u>10</u> sq ft	ain flood in A9. For a l a) Sc	Horizontal surance. building with an at juare footage of at	Datum: NAL	N/A
 c) Number of permanent hood openings in the crawsperior enclosure(s) within 1.0 foot above adjacent grade c) Total net area of flood openings in A8.b d) Engineered flood openings? X Yes No 	11 220	00sq in	c) To d) En	thin 1.0 foot above tal net area of floo gineered flood op	adjacent grade d openings in A enings?	9.bsq in
SECTION B - FLOO	D INSU	RANCE RATE N	IAP (FIRI		0N	_
B1. NFIP Community Name & Community Number		B2. County Name	e		<u> </u>	B3. State
Neptune, Township of 340317	Data	Monmouth Col	unty	DO Flood Zono/		New Jersey
B4. Map / Panel Number B5. Sullix B0. FINIT III.co. I 34025C0333 F 09/25/200)9	Revised Date 09/25/20	109	AE	S) B9. base r A0, us	e base flood depth) 9
B10. Indicate the source of the Base Flood Elevation (BFE) da ☐ FIS Profile	ita or bas Otl NGVD ystem (C	se flood depth ent her/Source: 1929 🛛 NAV BRS) area or Othe	ered in Iter D 1988 rwise Prote	n B9: D Other/Source ccted Area (OPA)?	e:	No
C1. Building elevations are based on:	Drawing				Finished Co	nstruction
*A new Flowetter Oratificate will be required when exact		<u> </u>	ing official of			
 A new Elevation Certificate will be required when const C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1 C2.a–h below according to the building diagram specifie Benchmark Utilized: <u>KV6262</u> Indicate elevation datum used for the elevations in item. 	ruction o V30, V d in Item s a) throi	f the building is co (with BFE), AR, AR, A7. In Puerto Ric Vertical E ugh h) below.	A, AR/AE, o only, enter o atum: <u>190</u> NGVD 1929	AR/A1-A30, AR/A r meters. 88 US feet 9 🛛 NAVD 1988	AH, AR/AO. Com	plete Items
 A new Elevation Certificate will be required when const C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1 C2.a–h below according to the building diagram specifie Benchmark Utilized: <u>KV6262</u> Indicate elevation datum used for the elevations in item. Datum used for building elevations must be the same as 	ruction o V30, V d in Item s a) throu s that us	f the building is co (with BFE), AR, AR A7. In Puerto Rice Vertical D ugh h) below.	A, AR/AE, o only, enter o atum: <u>190</u> NGVD 1929	AR/A1-A30, AR/A r meters. <u>88 US feet</u> 9 🖾 NAVD 1988 Check the m	AH, AR/AO. Com	plete Items ce:
 A new Elevation Certificate will be required when const C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1 C2.a–h below according to the building diagram specifie Benchmark Utilized: <u>KV6262</u> Indicate elevation datum used for the elevations in item. Datum used for building elevations must be the same as a) Top of bottom floor (including basement, crawlspace, b) Top of the next higher floor 	ruction o V30, V d in Item s a) throu s that us or enclos	f the building is co (with BFE), AR, AR A7. In Puerto Rice Vertical E ugh h) below. ed for the BFE. sure floor)	A, AR/AE, o only, ente o atum: <u>19</u> NGVD 1929 <u>6</u> 3	AR/A1-A30, AR/A er meters. 88 US feet 9 ⊠ NAVD 1988 Check the m ⊠ feet ⊠ feet	AH, AR/AO. Com	plete Items ce:
 *A new Elevation Certificate will be required when const C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1 C2.a–h below according to the building diagram specifie Benchmark Utilized: .<u>KV6262</u> Indicate elevation datum used for the elevations in item Datum used for building elevations must be the same as a) Top of bottom floor (including basement, crawlspace, b) Top of the next higher floor c) Bottom of the lowest horizontal structural member (V 	ruction o V30, V d in Item s a) throu s that us or enclos	f the building is co (with BFE), AR, AR A7. In Puerto Rice Wertical D ugh h) below.	$\frac{6}{N/A} = \frac{1}{N/A}$	AR/A1-A30, AR/A er meters. B8 US feet D INAVD 1988 Check the m Check the m If feet Intertion Int	AH, AR/AO. Com	plete Items ce: ed.
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FEMA Form 0860-33 (Revised 7/12)

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	spaces, copy the co	prresponding information	from Section A			F	OR INSURANCE	COMPANY USE
⁶ Building Street Addres 225 South River	ss (including Apt., Uni side Drive	it, Suite, and/or Bldg. No	.) or P.O. Route a	and Box No.		P	olicy Number:	
City Nentune Townsh	nin	State N I	ZIF	, Code 7753		C	ompany NAIC Nun	nber:
	SECTION D	- SURVEYOR. ENGIN	EER. OR ARC	HITECT CE		TION (CON	TINUED)	
Copy both sides of th	is Elevation Certificat	e for (1) community offici	al, (2) insurance	e agent/com	oany, and (3) building ov	wner.	
Comments Detache	d garage on slab e	evation= 6.1. Photos	taken August	2, 2014. Pa	age 3 pho	tos of front	and right side	e. page 4
				<u> </u>				
left and space =	rear. Surveyor resp 16.1 elevation. Sp	<u>ponsible for sections A</u> partVent Model N o. 154	<u>., B and C. Ho</u> 10-520	<u>use raised</u>	with cond	slab unde	er. Finished flo	oor <u>living</u>
Signature		2~	Γ	^{)ate} 09/16/2	2014			~~~
SECTION E -	BUILDING ELEVAT	ION INFORMATION (SURVEY NOT	REQUIRE	D) FOR Z	ONE AO AI	ND ZONE A (WITHOUT BFE)
For Zones AO and A (v For Items E1-E4, use	vithout BFE), complete natural grade, if avai	e Items E1–E5. If the Cer lable. Check the measure	rtificate is intendement used. In F	ded to suppo Vuerto Rico c	rt a LOMA nly, enter i	or LOMR-F re neters.	equest, complet	e Sections A, B, ar
E1. Provide elevation i grade (HAG) and t	information for the fo he lowest adjacent gr	llowing and check the apprade (LAG).	propriate boxes	to show whe	ther the el	evation is ab	ove or below th	e highest adjacen
a) Top of bottom f	loor (including basem	ent, crawlspace, or enclo	sure) is		🗌 feet	meters	above or	below the HAC
b) Top of bottom f	loor (including basem	ent, crawlspace, or enclo	sure) is	— · ——	feet	meters	above or	below the LAG
E2. For Building Diagra	ams 6–9 with permar	ent flood openings provid	ded in Section A	Items 8 and	/or 9 (see	pages 8-9 c	of Instructions),	— • • • • • •
the next higher flo	or (elevation C2.b in t	the diagrams) of the build	ding is		∐ feet		☐ above or	below the HAC
E3. Attached garage (top of slad) is	winnert equiping the h						
E4. top of platform of	machinery and/or ed	upment servicing the bu	f the bettom flo	or alayatad ir		meters	above or	
ordinance? Yes		own. The local official mu	ist certify this in	formation in	Section G		ommunity's not	uplain manageme
	SECTION F -	- PROPERTY OWNER	(OR OWNER	'S REPRES	SENTATI	E) CERTIF	ICATION	
The property owner or	owner's authorized r	epresentative who comple	etes Sections A	, B, and E for	Zone A (w	ithout a FEM	Aissued or cor	nmunity-issued BF
Property Owner or Ow	ner's Authorized Repr	esentative's Name	e correct to the	Dest of my Ki	nowledge.			
Address			C	ity		State	ZIP C	ode
Signature			C	ate		Teleph	none	
Comments								
							Check	here if attachmer
		SECTION G - CON		ORMATION		NAL)		
The local official who is G of this Elevation Cer	s authorized by law or tificate. Complete the	ordinance to administer to applicable item(s) and sig	he community's t In below. Check	floodplain ma the measure	nagement ment used	ordinance ca in Items G8–	n complete Sec G10. In Puerto	tions A, B, C (or E), Rico only, enter me
G1. G1. The information who is author	ion in Section C was rized by law to certify	taken from other docume y elevation information. (entation that ha Indicate the sou	is been signe irce and date	ed and sea e of the ele	aled by a lice evation data	nsed surveyor, in the Commer	engineer, or archi Its area below.)
G2. 🗌 A community	official completed Se	ection E for a building loca	ated in Zone A (v	without a FEN	MA-issued	or community	y-issued BFE) or	Zone AO.
G3. 🗌 The following	; information (Items (34-G10) is provided for a	community flood	lplain manag	ement pu	rposes.		
O4 Deverth November		G5. Date Permit Issu	ied	G6.	Date Cert	ificate Of Co	mpliance/Occu	pancy Issued
G4. Permit number	peen issued for:	New Construction		norovement				
G4. Permit Number		ding basement) of the bu	uilding:		Geet	meters	Datum	
G7. This permit has t G8. Elevation of as-b	uilt lowest floor (inclu				□ foot	meters	Datum	·····
G7. This permit Number G7. This permit has I G8. Elevation of as-b G9. BFE or (in Zone A	uilt lowest floor (inclu (0) depth of flooding a	at the building site:		···· · ······				
G7. This permit number G7. This permit has I G8. Elevation of as-b G9. BFE or (in Zone A G10.Community's des	uilt lowest floor (inclu AO) depth of flooding sign flood elevation:	at the building site:			feet	☐ meters	Datum	
G4. Permit Number G7. This permit has I G8. Elevation of as-b G9. BFE or (in Zone A G10.Community's des Local Official's Name	uilt lowest floor (inclu \O) depth of flooding ign flood elevation:	at the building site:	T	itle	feet		Datum	
G4. Permit Number G7. This permit has I G8. Elevation of as-b G9. BFE or (in Zone <i>A</i> G10.Community's des Local Official's Name Community Name	uilt lowest floor (inclu \0) depth of flooding 	at the building site:	T	itle elephone	feet		Datum	
G4. Permit Number G7. This permit has I G8. Elevation of as-b G9. BFE or (in Zone A G10.Community's des Local Official's Name Community Name Signature	uilt lowest floor (inclu \0) depth of flooding 	at the building site:	 ד אד ס	itle elephone	feet	meters	Datum	
 G4. Permit Number G7. This permit has I G8. Elevation of as-b G9. BFE or (in Zone A G10.Community's des Local Official's Name Community Name Signature Comments 	uilt lowest floor (inclu AO) depth of flooding sign flood elevation:	at the building site:	т Т	itle elephone late		meters	Datum	
G4. Permit Number G7. This permit has I G8. Elevation of as-b G9. BFE or (in Zone A G10.Community's des Local Official's Name Community Name Signature Comments	uilt lowest floor (inclu AO) depth of flooding sign flood elevation:	at the building site:	т т	itle elephone ate		meters	Datum	
G4. Permit Number G7. This permit has I G8. Elevation of as-b G9. BFE or (in Zone <i>A</i> G10.Community's des Local Official's Name Community Name Signature Comments	uilt lowest floor (inclu AO) depth of flooding ign flood elevation:	at the building site:	т Т	itle elephone Pate				

ATION CERTIFICATE, page 3

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

IMPORTANT: In these spaces, copy the co	FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Uni 225 South Riverside Drive	Policy Number:	
City Neptune Township	State ZIP Code NJ 07753	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.





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JN VC

Replaces all previous editions.

ATION CERTIFICATE, page 4

BUILDING PHOTOGRAPHS

Continuation Page

MPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Su	lite, and/or Bldg. No.) or PC	J. Route and Box No.	Policy Number:
225 South Riverside Drive			
City	State	ZIP Code	Company NAIC Number:
Neptune Township	NJ	07753	

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.





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ICC-ES Evaluation Report

MostWidely Accepted and Trusted

Reissued December 1, 2012

ESR-2074*

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

A Subsidiary of the International Code Council®

This report is subject to renewal February 1, 2015.

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 <u>www.smartvent.com</u> Info@smartvent.com

EVALUATION SUBJECT:

SMART VENT[®] AUTOMATIC FOUNDATION FLOOD VENTS: FLOODVENT[™] MODEL #1540-520; FLOODVENT[™] STACKING MODEL #1540-521; SMARTVENT[™] MODEL #1540-510; SMARTVENT[™] STACKING MODEL #1540-611; WOOD WALL FLOOD MODEL #1540-570; WOOD WALL FLOOD OVERHEAD DOOR MODEL #1540-574; FLOODVENT[™] OVERHEAD DOOR MODEL #1540-524; SMARTVENT[™] OVERHEAD DOOR MODEL #1540-514

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2009 and 2006 International Building Code[®] (IBC)
- 2009 and 2006 International Residential Code[®] (IRC)

Properties evaluated:

- Physical operation
- Water flow
- 2.0 USES

The Smart Vent[●] units are automatic foundation flood vents (AFFVs) employed to equalize hydrostatic pressure on nonfire-resistance-rated foundation walls, rolling-type overhead doors and building walls subject to rising or falling flood waters. The Smart Vent[●] units are intended for use where flood hazard areas have been established in accordance with IBC Section 1612.3 or IRC Section R3222.1. Certain models also allow natural ventilation in accordance with Section 1203 of the IBC or Section 408.1 of the IRC.

3.0 DESCRIPTION

3.1 General:

When subjected to pressure from rising water, the Smart Vent[®] AFFVs disengage, 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 AFFV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water, the suoyant release device causes the unit to unlatch, allowing the plate to rotate out of the way and allow flow. The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. The SmartVENTTM Stacking Model #1540-511 and FloodVENTTM Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

3.2 Engineered Opening:

The AFFVs 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 AFFVs must be Installed in accordance with Section 4.0.

3.3 Model Sizes:

The FloodVENTTM Model #1540-520, SmartVENTTM Model #1540-510, FloodVENTTM Overhead Door Model #1540-524, and SmartVENTTM Overhead Door Model #1540-514 units measure $15^3/_4$ lipches wide by $7^3/_4$ inches high (400 by 196.9 mm). The Wood Wall Flood Model #1540-570 and Wood Wall Flood Overhead Door Model #1540-574 units measure 14 inches wide by $8^3/_4$ inches high (355.6 by 222.25 mm). The SmartVENTTM Stacking Model #1540-511 and FloodVENTTM Stacking Model #1540-521 units measure 16 inches wide by 16 inches high (406.4 by 406.4 mm).

3.4 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 SmartVENTTM 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 AFFVs recognized in this report do not offer natural ventilation.

4.0 INSTALLATION

SmartVENT⁴ and FloodVENT⁷⁷⁴ 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 wood, masonry and

*Revised July 2013

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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[®] AFFVs must be installed as follows;

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one AFFV 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 AFFV for every 400 square feet (37.2 m²) of enclosed area,
- Below the base flood elevation.
- **a** With the bottom of the AFFV located a maximum of 12 inches (305.4 mm) above grade.

5.0 CONDITIONS OF USE

The Smart Vent[®] AFFVs 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[®] AFFVs 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[®] AFFVs 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 Automatic Foundation Flood Vents (AC364), dated October 2007.

7.0 IDENTIFICATION

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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).

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

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

ELEVATION CERTIFICATE

	SECT	ION A - PROPER			FOR INSURAN	ICE COMPANY US
A1. Building Owr Jason Bronfeld	er's Name				Policy Number	:
A2. Building Stre Box No. 373 South Rivers	et Address (inc de Drive	luding Apt., Unit, S	Suite, and/or Bldg. No.) or P.O	. Route and	Company NAI	C Number:
City Neptune			State New Jersey		ZIP Code 07753	
A3. Property Des Lot 8 Block 5417	cription (Lot an	d Block Numbers,	, Tax Parcel Number, Legal De	escription, etc.)		
A4. Building Use	(e.g., Resident	ial, Non-Residenti	ial, Addition, Accessory, etc.)	Residential		
A5. Latitude/Long	jitude: Lat. <u>40</u>	°11'8.90″	Long. 74°02'27.48"	Horizontal Da	itum: 🗌 NAD 192	7 🗙 NAD 1983
A6. Attach at leas	st 2 photograph	s of the building if	the Certificate is being used t	to obtain flood in	surance.	
A7. Building Diag	ram Number _	8		·		
A8. For a building	with a crawlsp	ace or enclosure(s):			
a) Square fo	otage of crawls	pace or enclosure	e(s)960sq ft			
b) Number of	permanent flo	od openings in the	e crawlspace or enclosure(s) w	vithin 1.0 foot ab	ove adjacentgrade	6
c) Total net a	rea of flood op	enings in A8.b	1,200 sq in			
d) Engineere	d flood opening	is? 🛛 Yes 🗍	л.,			
			_ No			
A9. For a building	with an attach	ed garage:	J No			
A9. For a building a) Square for	with an attach	ed garage:	338 sq ft			
A9. For a building a) Square for b) Number of	with an attach otage of attach permanent flo	ed garage: ed garage od openings in the	J No 338sq ft ≥ attached garage within 1.0 fc	oot above adjace	ntgrade	4
A9. For a building a) Square for b) Number of c) Total net a	with an attach otage of attach permanent flo rea of flood op	ed garage: ed garage od openings in the enings in A9.b	338sq ft attached garage within 1.0 fc 652sq in	oot above adjace	nt grade	4
 A9. For a building a) Square for b) Number of c) Total net a d) Engineere 	with an attach otage of attach permanent flo rea of flood op d flood opening	ed garage: ed garage od openings in the enings in A9.b us? [X] Yes []	No sq ft attached garage within 1.0 fc <u>652</u> sq in No	oot above adjace	nt grade	4
A9. For a building a) Square for b) Number of c) Total net a d) Engineere	with an attach otage of attach permanent flo rea of flood opening d flood opening SEC	ed garage: ed garage od openings in the enings in A9.b gs? [X] Yes [CTION B – FLOOI	NO Salar Sq ft e attached garage within 1.0 fc <u>652</u> Sq in NO D INSURANCE RATE MAP	oot above adjace	nt grade	4
 A9. For a building a) Square for b) Number of c) Total net a d) Engineere B1. NFIP Community Township of Neptore 	with an attach otage of attach permanent flo rea of flood opening d flood opening SEC nity Name & Co une #340317	ed garage: ed garage od openings in the enings in A9.b gs? X Yes [CTION B – FLOOI ommunity Number	J No 338 sq ft a attached garage within 1.0 fo 652 sq in] No D INSURANCE RATE MAP B2. County Name Monmouth	oot above adjace (FIRM) INFORI	nt grade MATIONB; No	4 3. State ew Jersey
 A9. For a building a) Square for b) Number of c) Total net a d) Engineere B1. NFIP Commun Township of Nepto 34. Map/Panel Number	with an attache otage of attache permanent flo rea of flood opening d flood opening SEC nity Name & Co une #340317 B5. Suffix	ed garage: ed garage od openings in the enings in A9.b gs? [X] Yes [CTION B – FLOOI ommunity Number B6. FIRM Index Date	No 338 sq ft attached garage within 1.0 fc 652 sq in No D INSURANCE RATE MAP B2. County Name Monmouth B7. FIRM Panel Effective/ Revised Date	oot above adjace (FIRM) INFORI B8. Flood Zone	nt grade MATION B3 Pe(s) B9. Base F (Zone A Flood F	4 3. State ew Jersey lood Elevation(s) AO, use Base
 A9. For a building a) Square for b) Number of c) Total net a d) Engineere B1. NFIP Community Township of Neptor 34. Map/Panel Number 4025C0341	with an attache otage of attache permanent flo rea of flood opening d flood opening SEC nity Name & Co une #340317 B5. Suffix F	ed garage: ed garage od openings in the enings in A9.b gs? X Yes CTION B – FLOOI ommunity Number B6. FIRM Index Date 09/25/2009	No 338 sq ft attached garage within 1.0 fc 652 sq in No D INSURANCE RATE MAP B2. County Name Monmouth B7. FIRM Panel Effective/ Revised Date 09/25/2009	oot above adjace (FIRM) INFORI 8 B8. Flood Zone AE	nt grade MATION B3 Pe(s) B9. Base F (Zone A Flood D 9	4 3. State ew Jersey lood Elevation(s) AO, use Base Depth)
A9. For a building a) Square for b) Number of c) Total net a d) Engineere B1. NFIP Commun Township of Nepto 34. Map/Panel Number 4025C0341 B10. Indicate the ☐ FIS Profil	with an attache otage of attache permanent flo rea of flood opening d flood opening <u>SEC</u> nity Name & Co une #340317 B5. Suffix F source of the B e \bowtie FIRM [ed garage: ed garage od openings in the enings in A9.b gs? X Yes CTION B - FLOOI ommunity Number B6. FIRM Index Date 09/25/2009 ase Flood Elevatio Community Det	J No 338	oot above adjace (FIRM) INFORI 8 B8. Flood Zone AE epth entered in It	nt grade MATION B: e(s) B9. Base F (Zone A Flood D 9 sem B9:	4 3. State ew Jersey lood Elevation(s) AO, use Base Depth)
A9. For a building a) Square for b) Number of c) Total net a d) Engineere B1. NFIP Commun Township of Nepto 34. Map/Panel Number 4025C0341 B10. Indicate the ☐ FIS Profil B11. Indicate elev	with an attache otage of attache permanent flo rea of flood opening d flood opening SEC hity Name & Co une #340317 B5. Suffix F source of the B e [X] FIRM [ation datum us	ed garage: ed garage od openings in the enings in A9.b gs? X Yes [CTION B - FLOOI ommunity Number B6. FIRM Index Date 09/25/2009 ase Flood Elevatio Community Det ed for BFE in Item	J No 338	Oot above adjace (FIRM) INFORI B8. Flood Zone AE epth entered in It AVD 1988	nt grade MATION B3 P(s) B9. Base F (Zone / Flood D 9 tem B9: Other/Source:	4 3. State ew Jersey lood Elevation(s) AO, use Base Depth)
A9. For a building a) Square for b) Number of c) Total net a d) Engineere B1. NFIP Commun Township of Nepto 4025C0341 B10. Indicate the FIS Profil B11. Indicate elev B12. Is the buildir	with an attache otage of attache permanent flo rea of flood opening d flood opening <u>SEC</u> nity Name & Co une #340317 B5. Suffix F source of the B e [X] FIRM [ation datum us g located in a f	ed garage: ed garage od openings in the enings in A9.b gs? X Yes CTION B - FLOOI ommunity Number B6. FIRM Index Date 09/25/2009 ase Flood Elevatio Community Det ed for BFE in Item Coastal Barrier Re	J No 338	Oot above adjace (FIRM) INFORI B8. Flood Zone AE epth entered in It AVD 1988 or Otherwise Pr	nt grade MATION B: b(s) B9. Base F (Zone / Flood D 9 tem B9: Other/Source: rotected Area (OPA	4 3. State aw Jersey lood Elevation(s) AO, use Base Depth)

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

MON CERTIFICATE			OMB No. 1660-0008 Expiration Date: November 30, 20
ATANT: In these spaces, copy the correspon	ding Information from S	Section A.	FOR INSURANCE COMPANY
diding Street Address (including Apt., Unit, Suite, an 73 South Riverside Drive	nd/or Bldg. No.) or P.O. F	Route and Box No.	Policy Number:
ity eptune	StateZNew Jersey0	IP Code 7753	Company NAIC Number
SECTION C – BUILDING	ELEVATION INFORM	ATION (SURVEY R	EQUIRED)
C1. Building elevations are based on: Constru- *A new Elevation Certificate will be required who	uction Drawings* 🛛 🛛 🖸	Building Under Constru Ilding is complete.	uction* 🛛 Finished Construction
C2. Elevations – Zones A1–A30, AE, AH, A (with BF Complete Items C2.a–h below according to the Benchmark Utilized: GPS observations	FE), VE, V1–V30, V (with building diagram specific Vertical Datu	BFE), AR, AR/A, AR d in Item A7. In Puerl m: <u>NAVD 1988</u>	/AE, AR/A1-A30, AR/AH _N AR/AO. to Rico only, enter meters.
Indicate elevation datum used for the elevations INGVD 1929 X NAVD 1988 Other	in items a) through h) be her/Source:	elow:	
Datum used for building elevations must be the	same as that used for the	e BFE.	Check the measurement uses
a) Top of bottom floor (including basement, or	wisnace or enclosure flo	or) 90	
b) Top of the next higher floor		14 0	
a) Bottom of the lowest horizontal structured	mbor (V/Zanas arks)	N/A	
c) Bottom of the lowest horizontal structural me	mber (V Zones only)	9.2	
 e) Lowest elevation of machinery or equipment (Describe type of equipment and location in (servicing the building Comments)	<u> </u>	feet meters
 D Lowest adjacent (finished) grade next to built 	dina (LAG)	8 2	☐ feet ☐ meters
a) Highest adjacent (finished) grade next to buil	Iding (HAG)	8 8	
 h) Lowest adjacent grade at lowest elevation of structural support 	deck or stairs, including	<u> </u>	feet meters
SECTION D - SURVEY	OR, ENGINEER, OR A	RCHITECT CERTIF	CATION
his certification is to be signed and sealed by a land certify that the information on this Certificate represent tatement may be punishable by fine or imprisonmer	d surveyor, engineer, or a ents my best effiorts to in nt under 18 U.S. Code, S	architect authorized by terpret the data availa ection 1001.	I law to certify elevation information ble. I understand that any false
Vere latitude and longitude in Section A provided by	a licensed land surveyor	? 🗌 Yes 🖾 No	Check here if attachments.
Certifier's Name David J. Von Steenburg, P.L.S.	License Number 34500		
itle P.L.S.			NP 50
ompany Name	······································		1 Hace Bus
lorgan Engineering, LLC			
ddress .O. Box 5232			Al was
ity oms River	State New Jersey	ZIP Code 08754	
igna fire ANVas	Date 05/08/2017	Telephone (732) 270-9690	
ppy all pages of this Elevation Certificate and all attack	hments for (1) community	official, (2) insurance a	agent/company, and (3) building owr
omments (including type of equipment and location, ne dwelling sits on a crawl space. The air conditione nished floor at an elevation of 14.0'. The duct work ir i40-510 and USA Flood Vent. Latitude and longitud oservations and OPUS. Nearest 3 benchmarks used Revised Preliminary January 30, 2015])	per C2(e), if applicable) or unit sits outside on the the crawl space is at an e recorded from Google d: DI0616, DF7058 & DI3	deck at an elevation o elevation of 12.3'. Er Earth. Benchmark ele 830. (Preliminary FEN	of 13.7'. The furnace sits on the ngineered flood vent: Smart Vent vation established through GPS /A Zone/Elev - AE10 (34025C034)
			(17-033

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	iformation from	n Section A.			
ing Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 3 South Riverside Drive			ox No.	Policy Number	er:
City State Neptune New J	lersey	ZIP Code 07753	i	Company NA	IC Number
SECTION E BUILDING ELEVA FOR ZONE AO	TION INFORM AND ZONE A	ATION (SUR) (WITHOUT E	VEY NOT I BFE)	REQUIRED)	
For Zones AO and A (without BFE), complete Items E1–E5. complete Sections A, B,and C. For Items E1–E4, use natural enter meters.	If the Certificate I grade, if availa	is intended to ble. Check the	supporța e measuren	LOMA or LOM nent used. In 1	/R-Frequest, Puerto Rico only,
 E1. Provide elevation information for the following and check the highest adjacent grade (HAG) and the lowest adjace a) Top of bottom floor (including basement, 	k the appropriate ant grade (LAG)	e boxes to sho	w whether	the elevation	is above or below
crawlspace, or enclosure) is b) Top of bottom floor (including basement, crawlspace, or enclosure) is	, <u></u> ,	[] feet		above	or \Box below the HAG
E2. For Building Diagrams 6–9 with permanent flood openin	igs provided in S	Section A Item	s 8 and/or 9	e (see pages)	1-2 of Instructions),
the next higher floor (elevation C2.b in the diagrams) of the building is		[] feet	meters	above	or below the HAG
E3. Attached garage (top of slab) is		[] feet	meters []	above	or Delow the HAG
servicing the building is	<u></u>	[feet	meters	above	or Delow the HAG
E5. Zone AO only: If no flood depth number is available, is the flood plain management ordinance? Yes No	he top of the bot	ttom floor elev The local offi	ated in according action according a contract according to the contrac	ordance with ertify this infor	the community's mation in Section G.
SECTION F - PROPERTY OWNER (OR OWNER'S	REPRESENT/	ATIVE) CEF	RTIFICATION	
The property owner or owner's authorized representative who community-issued BFE) or Zone AO must sign here. The sta Property Owner or Owner's Authorized Representative's Nan	o completes Sec itements in Sect ne	ctions A, B, an ions A, B, and	d E for Zor E are corre	ect to the best	a FEMA-issued or of my knowledge.
Address	City	. '	Stal	te	ZIP Code
Signature	Date		Tele	ephone	
Comments					
20110110110					
· · ·					
					here if attachments

Į.		
JON CERTIFICATE		OMB No. 1660-0008 Expiration Date: November 30, 2018
TANT: In these spaces, copy the	e corresponding information from Section A.	FOR INSURANCE COMPANY USE
ding Street Address (including Apt., U 73 South Riverside Drive	Jnit, Suite, and/or Bldg. No.) or P.O. Route and B	iox No. Policy Number:
City	State ZIP Code	Company NAIC Number
Neptune	New Jersey 07753	
S	ECTION G COMMUNITY INFORMATION (OP	TIONAL)
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 of	w or ordinance to administer the community's floo vation Certificate. Complete the applicable item(s nly, enter meters.	odplain management ordinance can complete s) and sign below. Check the measurement
G1. The information in Section C w engineer, or architect who is au data in the Comments area be	as taken from other documentation that has beer uthorized by law to certify elevation information. (low.)	n signed and sealed by a licensed surveyor, Indicate the source and date of the elevation
G2. A community official completed or Zone AO.	J Section E for a building located in Zone A (with	out a FEMA-issued or community-issued BFE)
33, 📋 The following information (Item	is G4G10) is provided for community floodplain	management purposes.
G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate of Compliance/Occupancy Issued
 37. This permit has been issued for: 38. Elevation of as-built lowest floor (indof the building: 	New Construction Substantial Improv cluding basement)	ement
G9. BFE or (in Zone AO) depth of floodi	ing at the building site:	feet meters
G10. Community's design flood elevatior	n:	feet meters Datum
.ocal Official's Name	Title	
Community Name	Telephone	
Signature	Date	
Comments (including type of equipment a	and location, per C2(e), if applicable)	
		Check here if attachments.

18 A.

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

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

RTANT: In these spaces, copy the	FOR INSURANCE COMPANY USE		
/Jilding Street Address (including Apt., U	Policy Number:		
373 South Riverside Drive			
City	State	ZIP Code	Company NAIC Number
Neptune	New Jersey	07753	

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 view

MON CERTIFICATE



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

BUILDING PHOTOGRAPHS

ION CERTIFICATE	Continuation Page	OMB No. 1660-0008 Expiration Date: November 30, 2018
AANT: In these spaces, copy the corr	esponding information from Section A.	FOR INSURANCE COMPANY USE
iding Street Address (including Apt., Unit, S	uite, and/or Bldg. No.) or P.O. Route and Box No.	Policy Number:
3 South Riverside Drive		

373 South Riverside Drive	U ,		· · ····, · · ····
City	State	ZIP Code	Company NAIC Number
Neptune	New Jersey	07753	

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 Two Caption Engineered flood vent: USA Flood Air Vent



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ICC-ES Evaluation Report

ICC-ES | (800) 423-6587 | (562) 699-0543 | www.icc-es.org

ESR-2074

Reissued 02/2019 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



"2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence"

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A Subsidiary of

ACCHISTING ISO/UEC 17085 Product Centiles tion Body #1080

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ICC-ES Evaluation Report

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ESR-2074

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

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.

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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

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ESR-2074 CBC and CRC Supplement

Reissued February 2019

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DIVISION: 08 00 00-OPENINGS Section: 08 95 43-Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

ICC-ES Evaluation Report

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 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent[®] Automatic Foundation Flood Vents, recognized in ICC-ES master evaluation report ESR-2074, have also been evaluated for compliance with codes noted below.

Applicable code edition:

2016 California Building Code (CBC)

■ 2016 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with 2016 CBC Chapter 12, provided the design and installation are in accordance with the 2015 *International Building Code*[®] (IBC) provisions noted in the master report and the additional requirements of CBC Chapters 12, 16 and 16A, as applicable.

The products recognized in this supplement have not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.2 CRC:

The Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the 2016 CRC, provided the design and installation are in accordance with the 2015 *International Residential Code*[®] (IRC) provisions noted in the master report.

The products recognized in this supplement have not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The products recognized in this supplement have not been evaluated for compliance with the International Wildland---Urban Interface Code®.

This supplement expires concurrently with the master report, reissued February 2019.

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feet (18.6 m^2) 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 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.

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 I/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

1

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

TABLE I MOD		
MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
1540-520	15 ³ / ₄ " X 7 ³ / ₄ "	200
1540-510	15 ³ / ₄ " X 7 ³ / ₄ "	200
1540-524	15 ³ /4" X 7 ³ /4"	200
1540-514	15 ³ / ₄ " X 7 ³ / ₄ "	200
1540-570	14" X 8 ³ / ₄ "	200
1540-574	14" X 8 ³ / ₄ "	200
1540-511	16" X 16"	400
1540-521	16" X 16"	400
	MODEL NUMBER 1540-520 1540-510 1540-514 1540-514 1540-570 1540-574 1540-511 1540-521	MODEL NUMBERMODEL SIZE (in.)1540-520 $15^3/_4" \times 7^3/_4"$ 1540-510 $15^3/_4" \times 7^3/_4"$ 1540-524 $15^3/_4" \times 7^3/_4"$ 1540-514 $15^3/_4" \times 7^3/_4"$ 1540-570 $14" \times 8^3/_4"$ 1540-574 $14" \times 8^3/_4"$ 1540-511 $16" \times 16"$ 1540-521 $16" \times 16"$

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



FIGURE 4-FLOOD VENT SEALING KIT

2

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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)	communit	v official	(2) insurance a	aent/compa	nv	and	(3)) buildina	owner.
	۱ י		,	<u>``</u>		goneoonipa			·~/	/ Dananig	

SECTION A - PROPERTY INFORMATION	FOR INSURANCE COMPANY USE
A1. Building Owner's Name	Policy Number:
EVELYN SCHEIDT	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 106 NORTH RIVERSIDE DR.	Company NAIC Number:
City	ZIP Code
NEPTUNE New Jersey	07753
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) LOT 20 IN BLOCK 451	
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL	
A5. Latitude/Longitude: Lat. 40*11'49.0" Long74*02'39.3" Horizontal Date	um: 🔲 NAD 1927 🛛 NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood inst	urance.
A7. Building Diagram Number7	
A8. For a building with a crawlspace or enclosure(s):	
a) Square footage of crawlspace or enclosure(s)687 sq ft	
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot abo	ve adjacent grade4
c) Total net area of flood openings in A8.b 800 sq in	
d) Engineered flood openings? 🛛 Yes 🗌 No	
A9. For a building with an attached garage:	
a) Square footage of attached garage <u>600</u> sq ft	
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacer	t grade3
c) Total net area of flood openings in A9.b 600 sq in	
d) Engineered flood openings? 🔀 Yes 🗌 No	
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORM	
B1. NFIP Community Name & Community Number B2. County Name	B3. State
NEPTUNE TOWNSHIP 340317 MONMOUTH	New Jersey
B4. Map/Panel B5. Suffix B6. FIRM Index B7. FIRM Panel B8. Flood Zone	(s) B9. Base Flood Elevation(s)
34025C0333 F 09/25/2009 09/25/2009 AE	Flood Depth)
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in It	em 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 Pro	otected Area (OPA)? 🗌 Yes 🔀 No
Designation Date: CBRS 🔲 QPA	
Stanley Hanol PIS#	29182
FEMA Form 086-0-33 (7/15) Replaces all previous editions.	Form Page 1 of 6

PORTANT: In these spaces, copy the co	rresponding information from Sect	tion A.	
Building Street Address (including Apt., Unit, 06 NORTH RIVERSIDE DR.	Suite, and/or Bldg. No.) or P.O. Rout	e and Box No.	Policy Number:
ity IEPTUNE	State ZIP 0 New Jersey 0775	Code 3	Company NAIC Number
SECTION C - B	UILDING ELEVATION INFORMAT	ION (SURVEY	REQUIRED)
 C1. Building elevations are based on: *A new Elevation Certificate will be req C2. Elevations – Zones A1–A30, AE, AH, A Complete Items C2.a–h below according Benchmark Utilized: GPS 	Construction Drawings* Build Juired when construction of the buildir A (with BFE), VE, V1–V30, V (with BF ng to the building diagram specified in Vertical Datum:	ling Under Const ng is complete. E), AR, AR/A, A n Item A7. In Pue NAVD 1988	R/AE, AR/A1–A30, AR/AH, AR/AO. Prto Rico only, enter meters.
Indicate elevation datum used for the e	levations in items a) through h) below	v.	
NGVD 1929 X NAVD 198			
Datum used for building elevations mus	st be the same as that used for the B	FE.	Check the measurement used.
a) Top of bottom floor (including base	ment, crawlspace, or enclosure floor)	<u> </u>	X feet 🔲 meters
b) Top of the next higher floor		16 8	X feet 🗌 meters
c) Bottom of the lowest horizontal stru	ctural member (V Zones only)	<u> </u>	X feet ☐ meters
d) Attached garage (top of slab)		<u> </u>	X feet I meters
e) Lowest elevation of machinery or e (Describe type of equipment and lo	quipment servicing the building cation in Commen ts)	14_8	X feet ☐ meters
f) Lowest adjacent (finished) grade ne	ext to building (LAG)	6.8	X feet 🗌 meters
g) Highest adjacent (finished) grade n	ext to building (HAG)	<u> </u>	
 h) Lowest adjacent grade at lowest ek structural support 	evation of deck or stairs, including	6.2	X feet meters
SECTION D - S	SURVEYOR, ENGINEER, OR ARC	HITECT CERT	FICATION
This certification is to be signed and sealed I certify that the information on this Certifica statement may be punishable by fine or imp	by a land surveyor, engineer, or arch te represents my best efforts to interp prisonment under 18 U.S. Code, Sect	nitect authorized pret the data ava ion 1001.	by law to certify elevation information. ilable. I understand that any false
Were latitude and longitude in Section A pro-	ovided by a licensed land surveyor?	🛛 Yes 🗌 No	Check here if attachments.
Certifier's Name STANLEY HANS JR	License Number 29182		
Title PROFESSIONAL LAND SURVEYOR			
			Place
Address			Here
1023 OCEAN ROAD			
City POINT PLEASANT	State New Jersey	ZIP Code 08742	
Signature Hanley Has	Date 05/15/2017	Telephone (732) 892-5050	.
Copy all pages of this Elevation Certificate an	d All attachments for (1) community of	ficial, (2) insuranc	e agent/company, and (3) building own
	- - - - - - - - - - - - - -		
Comments (including type of equipment and LOWER LEVEL FLOOR=7.6' FF=16.8' GF HOUSE HAS 4 (1540-510) SMART VENTS	=6.9' A/C=14.8' \$ 200X4=800 SQ. IN'S GARAGE H	AS 3 (1540-520)	SMART VENTS 200X3=600 SQ. IN'S

2

t.
CERTIFICATE		(OMB No. 1660-0 Expiration Date:	008 November 30, 2018
: In these spaces, copy the corresponding	information from Section A	\.	FOR INSURAN	CE COMPANY USE
areet Address (including Apt., Unit, Suite, and/or ATH RIVERSIDE DR.	Bldg. No.) or P.O. Route and	Box No.	Policy Number:	
Stat TUNE Nev	e ZIP Code v Jersey 07753		Company NAIC	Number
SECTION E – BUILDING ELEV			REQUIRED)	
For Zones AO and A (without BFE), complete Items E1–E complete Sections A, B,and C. For Items E1–E4, use nature enter meters	5. If the Certificate is intended ral grade, if available. Check	to support a the measurem	LOMA or LOMR nent used. In Pue	-F request, erto Rico only,
 E1. Provide elevation information for the following and chu the highest adjacent grade (HAG) and the lowest adja a) Top of bottom floor (including basement, 	eck the appropriate boxes to a acent grade (LAG).	show whether	the elevation is a	above or below
crawlspace, or enclosure) is	fe	et 🗌 meters	above or	below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is	fe	et 🗌 meters	above or	below the LAG.
E2. For Building Diagrams 6–9 with permanent flood oper the next higher floor (elevation C2.b in	nings provided in Section A Ite	ems 8 and/or 9	9 (see pages 1-2	2 of Instructions),
the diagrams) of the building is	fe	et 🗌 meters	s 🔲 above or	below the HAG.
E3. Attached garage (top of slab) is	fe	et 🗌 meters	above or	below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is	fe	et 🗌 meters	s 🗌 above or	below the HAG.
E5. Zone AO only: If no flood depth number is available, i floodplain management ordinance?	s the top of the bottom floor e	levated in acc official must c	cordance with the ertify this information	e community's ation in Se ction G.
SECTION F - PROPERTY OWNER	R (OR OWNER'S REPRESE	NTATIVE) CE	RTIFICATION	
SECTION F – PROPERTY OWNE The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	R (OR OWNER'S REPRESE who completes Sections A, B, statements in Sections A, B, a	and E for Zor and E are corr	RTIFICATION ne A (without a F ect to the best of	EMA-issued or f my knowledge.
SECTION F – PROPERTY OWNER The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's N	R (OR OWNER'S REPRESEI who completes Sections A, B, statements in Sections A, B, a lame	ANTATIVE) CE and E for Zor and E are corr	RTIFICATION ne A (without a F ect to the best of	EMA-issued or f my knowledge.
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SECTION F – PROPERTY OWNER The property owner or owner's authorized representative y community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's N Address Signature	R (OR OWNER'S REPRESE who completes Sections A, B, statements in Sections A, B, a lame City Date	ATATIVE) CE and E for Zor and E are corr Sta Tel	RTIFICATION ne A (without a F ect to the best of nte ephone	EMA-issued or f my knowledge. ZIP Code
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SECTION F – PROPERTY OWNER The property owner or owner's authorized representative of community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's N Address Signature Comments	R (OR OWNER'S REPRESEI who completes Sections A, B, statements in Sections A, B, a lame City Date	NTATIVE) CE and E for Zor and E are corr Sta Tel	RTIFICATION ne A (without a F ect to the best of nte ephone	EMA-issued or f my knowledge. ZIP Code
SECTION F – PROPERTY OWNER The property owner or owner's authorized representative of community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's N Address Signature Comments	R (OR OWNER'S REPRESEI who completes Sections A, B, statements in Sections A, B, a lame City Date	NTATIVE) CE and E for Zor and E are corr Sta Tel	RTIFICATION ne A (without a F ect to the best of nte ephone	EMA-issued or f my knowledge. ZIP Code
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SECTION F - PROPERTY OWNER The property owner or owner's authorized representative of community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's N Address Signature Comments	R (OR OWNER'S REPRESE who completes Sections A, B, statements in Sections A, B, a lame City Date	NTATIVE) CE and E for Zor and E are corr Sta Tel	RTIFICATION ne A (without a F ect to the best of nte ephone	EMA-issued or fmy knowledge. ZIP Code

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ELEVATION CERTIFICATE			OMB No. 1660-0∿ Expiration Date: Nc
PORTANT: In these spaces, copy the corre	esponding information	n from Section A.	FOR INSURANCE CL.
uilding Street Address (Including Apt., Unit, So 06 NORTH RIVERSIDE DR.	uite, and/or Bldg. No.) c	or P.O. Route and Box	No. Policy Number:
ity	State New Jersey	ZIP Code 07753	Company NAIC Number
SECTIO		NFORMATION (OPTIC	DNAL)
The local official who is authorized by law or or Sections A, B, C (or E), and G of this Elevation used in Items G8G10. In Puerto Rico only, er 1. The information in Section C was tak engineer, or architect who is authoriz	rdinance to administer t n Certificate. Complete t nter meters. ken from other documen zed by law to certify elev	he community's floodp the applicable item(s) a ntation that has been si vation information. (Ind	lain management ordinance can complete and sign below. Check the measurement gned and sealed by a licensed surveyor, icate the source and date of the elevation
A community official completed Sect or Zone AO.	ion E for a building loca	ited in Zone A (without	a FEMA-issued or community-issued BFE
3. The following information (Items G4-	-G10) is provided for co	ommunity floodplain ma	nagement purposes.
34. Permit Number	G5. Date Permit Issu	ied	G6. Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:] New Construction] Substantial Improven	nent
 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:			ifeet imeters Datum
Local Official's Name		Titie	
Community Name		Telephone	
Signature		Date	
Comments (including type of equipment and lo	cation, per C2(e), if app	olicable)	
			;
			- že
			Check here if attachment

Ô

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

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

/: In these spaces, co	py the corresponding information	from Section A.	FOR INSURANCE COMPANY USE
reet Address (including RTH RIVERSIDE DR.	Apt., Unit, Suite, and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:
<i>y</i> ¹	State	ZIP Code	Company NAIC Number
PTUNE	New Jersey	07753	

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

*I***CERTIFICATE**

FRONT 11-04-2016



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

Replaces all previous editions.

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ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

Continuation Page

OMB No. 1660-0 Expiration Date: N

			Expiration Date. Ht
IMPORTANT: In these spaces, copy the co	rresponding information	from Section A.	FOR INSURANCE C
Building Street Address (including Apt., Unit, 106 NORTH RIVERSIDE DR.	P.O. Route and Box No.	Policy Number:	
City	State	ZIP Code	Company NAIC Number
NEPTUNE	New Jersey	07753	

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 Caption

RIGHT SIDE 11-04-2016



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

Replaces all previous editions.

Form Page 6 of 6



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ICC-ES Evaluation Report

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ESR-2074

Reissued 02/2017 This report is subject to renewal 02/2019.

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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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) 441-8358 <u>www.smartvent.com</u> 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,

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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d with a minimum of one FV for every guare feet (37.2 m²) of enclosed area.

Jow 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	1 4" 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



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ESR-2074 CBC and CRC Supplement

Issued February 2017 Revised November 2017

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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; #1540-670; #1540-574; #1540-524; #1540-514

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent[®] Automatic Foundation Flood Vents, recognized in ICC-ES master evaluation report ESR-2074, have also been evaluated for compliance with codes noted below.

Applicable code edition:

- 2016 California Building Code (CBC)
- 2016 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with 2016 CBC Chapter 12, provided the design and installation are in accordance with the 2015 *International Building Code*[®] (IBC) provisions noted in the master report and the additional requirements of CBC Chapters 12, 16 and 16A, as applicable.

The products recognized in this supplement have not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.2 CRC:

The Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the 2016 CRC, provided the design and installation are in accordance with the 2015 *International Residential Code*[®] (IRC) provisions noted in the master report.

The products recognized in this supplement have not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The products recognized in this supplement have not been evaluated for compliance with the International Wildland–Urban Interface Code[®].

This supplement expires concurrently with the master report, reissued February 2017 and revised November 2017.

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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 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent[®] Automatic Foundation Flood Vents, recognized in ICC-ES master report ESR-2074, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2017 Florida Building Code—Building
- 2017 Florida Building Code—Residential

2.0 CONCLUSIONS

The Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the *Florida Building Code—Building* and the FRC, provided the design and installation are in accordance with the 2015 *International Building Code*[®] provisions noted in the master report.

Use of the Smart Vent[®] Automatic Foundation Flood Vents has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and the *Florida Building Code—Residential*.

For products falling under Florida Rule 9N-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the master report, reissued February 2017 and revised November 2017.

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ELEVATION CERTIFICATE

IMPORTANT: Follow the instructions on pages 1–9.

OMB No. 1660-0008 Expiration Date: July 31, 2015

SECTION A – PROPERTY INFORMATION				OR INSURANCE C	OMPANY USE
A1. Building Owner's Name Gregory and Ivy Jegou			ŧ	Policy Number:	
A2. Building Street Address (including Apt., Unit, Suite, and, 112 Melrose Avenue	or Bldg. No.) or PO.	Route and Box No).	Company NAIC Numb	er:
City Neptune		State NJ	Z	P Code 07753	
A3. Property Description (Lot and Block Numbers, Tax Parce Tax Lot 5321 in Block 2	l Number, Legal Des	cription, etc.)			
 A4. Building Use (e.g., Residential, Non-Residential, Additio A5. Latitude/Longitude: Lat. 40d 11m 41 14s N A6. Attach at least 2 photographs of the building if the Cert A7. Building Diagram Number A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) b) Number of permanent flood openings in the crawlspace c) Total net area of flood openings in A8.b d) Engineered flood openings? ∑ Yes □ No 	n, Accessory, etc.) <u>F</u> Long. 74d 02m ificate is being used <u>1,578</u> si ace 9 <u>1,800</u> si	Assidentia, 125895W to obtain flood in: A9. For al A9. For al A9. For al A9. For al A9. For al A9. For A9. For	Horizontal D surance. building with an atta uare footage of atta imber of permanent thin 1.0 foot above tal net area of flood gineered flood ope	atum: NAD 19 ached garage: ached garage flood openings in adjacent grade openings in A9.b nings? Yes	D27 INAD 1983 n/a sq ft the attached garage -n/a n/a sq in □ No
SECTION B – FLOO	D INSURANCE R	ATE MAP (FIRI	M) INFORMATIO	N	Stata
Township of Neptune, 340317	Monmou	th		NJ	Sidle
Map/Panel Number B5. Suffix B6. FIRM Index 34025C0333 F 09/25/200	Date B7. FIRM Revise	Panel Effective/ ed Date 25/2009	B8. Flood Zone(s)	B9. Base Flood A0, use ba	d Elevation(s) (Zone ise flood depth) 9
B10. Indicate the source of the Base Flood Elevation (BFE) da	ata or base flood dep	oth entered in Iter	n B9:		
Image: Provide Image	Uther/Source: NGVD 1929 ystem (CBRS) area o SOPA	X NAVD 1988 or Otherwise Prote	Other/Source: ected Area (OPA)?	🗌 Yes 🛛 No	
SECTION C - BUILDIN	IG ELEVATION IN	FORMATION (S	SURVEY REQUIR	ED)	
 C1. Building elevations are based on: Construction *A new Elevation Certificate will be required when constructions C2. Elevations – Zones A1 A30, AE, AH, A (with BFE), VE, V2 C2.a–h below according to the building diagram specific Benchmark Utilized: GPS Indicate elevation datum used for the elevations in item Datum used for building elevations must be the same a 	Drawings* ruction of the buildir L V30, V (with BFE), d in Item A7. In Puer Ve us a) through h) below is that used for the B	Building Under Co ng is complete. AR, AR/A, AR/AE, rto Rico only, ente rtical Datum: <u>NA</u> w. DNGVD 1929 BFE.	AR/A 1 A30, AR/AF er meters. <u>VD 1988</u> 9 X NAVD 1988 Check the me	➢ Finished Constr ⊢, AR/AO. Complet □ Other/Source: . assurement used.	uction e Items
a) Top of bottom floor (including basement, crawlspace	or enclosure floor)		Xifeet	meters	
c) Bottom of the lowest horizontal structural member (Zones only)	<u></u> . <u>o</u>	Reet	meters	
d) Attached garage (top of slab)		<u>n/a</u>	🔀 feet	☐ meters	
 e) Lowest elevation of machinery or equipment servicin (Describe type of equipment and location in Comment 	g the building hts)	1 <u>3</u> . <u>5</u>	🔀 feet	meters	
 f) Lowest adjacent (finished) grade next to building (LA d) Highest adjacent (finished) grade payt to building (LI) 	G)	<u> </u>	X feet	meters	
 h) Lowest adjacent grade at lowest elevation of deck or structural support 	r stairs, including	<u>7</u> .6	i leet ⊠ feet	meters	
SECTION D - SURVE	YOR, ENGINEER,	OR ARCHITED		DN .	
This certification is to be signed and sealed by a land surveyor information. I certify that the information on this Certificate rep. I understand that any false statement may be punishable by firm. Check here if comments are provided on back of form. Check here if attachments.	r, engineer, or archite resents my best effo e or imprisonment u Were latitude and l licensed land surve	ect authorized by I ts to interpret the nder 18 U.S. Code ongitude in Sectio yor? XY Yes	aw to certify elevati data available. , Section 1001. on A provided by a	on	
Certifier's Name Michael J. Williams		License No NJ G258	umber 300		PLACE SEAL
Title ILand Surveyor	Company Name Michael J. Willia	ms Land Surve	ying, LLC		HERE
Address 56 Main Avenue	City Ocean Grove	State N.I	ZIP Code 07756		
Signature Mild I Well. 3	Date 07/14/2015	Telephone (732) 988	3-6440		

FEMA Form 086-033 (Revised 7/12)

See reverse side for continuation.

Replaces all previous editions.

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ATION CERTIFICATE, page 2

Design State Control Field State Processing Control Field State Control Field State Control Field State Control Field State Control Field State Control Field State Control Field State Control Field State Control Field State Control Field State Control Field State Control Field State Control Field State Control Field State Control Field State Control Field State Control Field State Control Field State State Control Field State Control Field State Control Field State State Control Field State Control Field State Control Field State State Control Field State Control Field State Control Field State State Control Field State Control Field State Control Field State State Control Field State Control Field State Control Field State State Control Field State Control Field State Control Field State State Control Field State Control Field State Control Field State State Control Field State <t< th=""><th>MPORTANT: In these spaces, copy the</th><th>corresponding information from Sec</th><th>tion A.</th><th></th><th>FO</th><th>R INSURANCE</th><th>E COMPANY USE</th></t<>	MPORTANT: In these spaces, copy the	corresponding information from Sec	tion A.		FO	R INSURANCE	E COMPANY USE
State ZIP Code Control Multi Number: Not_000000000000000000000000000000000000	Building Street Address (including Apt., L 112 Melrose Avenue	Init, Suite, and/or Bldg. No.) or RO. R	bute and Box No.		Po	licy Number:	
Section D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED) Capy both sides of this Elevation Certificate for (1) community official (2) insurance agent/company, and (3) building owner. Commits Premises is located in Caro R-E10 as Shown on Revised Preliminary Way 3025C033S. All mechanical equipment inclu- LIMBUE and not water freater are located at or above elevation 13.5. All Flood Versi are Smart Versis. Model 1540-51 Section E - BULEINS ELEVATION INFORMATION (SURVEY NOT REQURED) FOR ZONE AO AND ZONE A (WITHOUT BF Section E - BULEINS ELEVATION INFORMATION (SURVEY NOT REQURED) FOR ZONE AO AND ZONE A (WITHOUT BF For Zones AO and A (Without BFE), complete learning and check the appropriate boxes to show whether the elevation is above or below the highest adjace grade (HAG) and the lowest adjace, or enclosure is	Neptune	StateNJ	ZIP Code 07753		Co	mpany NAIC Nu	mber:
Corp using sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building ower. Comments Premises is located in Zone AE(10 as shown on Revised Preliminary Mag 34025C0333G. All mechanical equipment inclu Unrace and hot water heater are located at or above elevation 13.6. All Flood Vents are Smart Vents. Model 1540-510 Section E = BULLSING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BF For Zones AO and A (without BEE), complete items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request. Complete Sections A. Provide elevation france goater (AG) Provide elevation france forder (CA) Provide elevation france forder elevation france (CA) Provide elevation france forder elevation france elevation france elevation france elevation Provide elevation france forder elevation france elevation france elevation Provide elevation france forder elevation elevation Provide elevation france forder elevation elevation	SECTION) – SURVEYOR, ENGINEER, OR	ARCHITECT CE	RTIFICATIO	N (CON	TINUED)	
Comments Premises is located in Zone AE 10 as shown on Revised Preliminary Map 34025C0333G. All mechanical equipment inclu turnace and hot water meater are located at or above elevation 13.5. All Flood Vents are Smart Vents . Model 1540-511 Signature Date 07/14/2015 SECTION E – BULL\$IN\$ ELEVATION INFORMATION (SURVEY NOT REQURED) FOR ZONE AO AND ZONE A (WITHOUT BF Pro Zones A0 and A (without BT), complete items E1-E5. If the Certificate is intended to support a LOMA or LONR F request, complete Sections A B for Zones A0 and A (without BT), complete items E1-E5. If the Certificate is intended to support a LOMA or LONR F request, complete Sections A B for Zones A0 and A (without BT), complete items E1-E5. If the Certificate is intended to support a LOMA or LONR F request, complete Sections A B for Zones A0 and A (without BT), complete items E1-E5. If the Certificate is intended to support a LOMA or LONR F request, complete Sections A B for Zones A0 and A (without BT), complete items E1-E5. If the Certificate is intended to support a LOMA or LONR F request, complete Sections A B for Zones A0 and A (without BT), complete items E1-E5. If the Certificate is intended to support a LOMA or LONR F request, complete Sections A B for John for (including basement, crawlspace, or enclosure) is	Copy both sides of this Elevation Certific	ate for (1) community official, (2) insu	irance agent/comp	pany, and (3) b	uilding ow	mer.	
Signature Date OT14/2015 SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BE For Zones A0 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 For Items E1-E4, use natural grade, if available, Check the measurement used. In Pourto Rice only, enter meters. E. Provide deviation information for the following and check the approximate boxes to show whether the deviation is above or below the highest adjace grade (HAQ) and the lowest adjacent grade (LAG). a) To of bottom floor (including basement, crawlspace, or enclosure) is feet length b) To of bottom floor (including basement, crawlspace, or enclosure) is feet length c) To of bottom floor (including basement, crawlspace, or enclosure) is feet length c) To of bottom floor (including basement, crawlspace, or enclosure) is feet length c) To of bottom floor (including basement, crawlspace), or enclosure) is feet length c) To of bottom deviation C2b in the diagrame) of the building is feet length dove or leadwith the E4. Top of platform of machinery and/or equipment servicing the building is	Comments Premises is located in Zo furnace and hot water he	one AE10 as shown on Revised F ater are located at or above elev	Preliminary Map ation 13.5. All F	34025C0333 1000 Vents a	iG. All π re Sma	nechanical e rt Vents . Mo	quipment inclu odel 1540-510
SECTION E – BUILQING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AC AND ZONE A (WITHOUT BF) For Zones AO and A (without BFE), complete Items E1=25. If the Cartificate is intended to Support a LOMA or LOMK-F request, complete Sections A, B for terms E1=45. If you'de elevation information for the following and check the easyment used. In Peuto Rico only, enterns Complete Sections A, B for terms E1=45. If the Cartificate is intended to Support a LOMA or LOMK-F request, complete Sections A, B for terms E1=45. If you'de elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the Highest data grade (140, gather terms and the elevation for the following the data section A items 8 and/or 9 (see pages 8-9 of histructions), it he next higher floor (elevation C2 b in the diagrams) of the building is	Signature Mull/Ce	leller	Date 07/14/2	2015			
Field Zones AO and A (without GFE), complete terms E1-E5. If the Cortificate is interneted to support a LOMA or LOMK-F request, complete Sections A. B For terms E1-E4, use natural grade. If available, Check the measurement used. In Puerto Rico only, enter meters. Explose deviation information for the following and check the appropriate boxes to how whether the elevation is above or below the highest adjac grade (LAG). a) To or bottom floor (including basement, crawlspace, or enclosure) is	SECTION E - BUILDING ELEV	ATION INFORMATION (SURVEY	NOT REQUIRED) FOR ZON	E AO AN	D ZONE A	(WITHOUT BF
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E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8-9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is	a) Top of bottom floor (including base b) Top of bottom floor (including base	ement, crawlspace, or enclosure) is ement, crawlspace, or enclosure) is	•	∐feet [□feet [) meters] meters	⊔ above or □ above or	☐ below the H ☐ below the L
the next higher floor (elevation C2.b in the diagrams) of the building is	E2. For Building Diagrams 6–9 with perm	anent flood openings provided in Sec	tion A Items 8 and	i/or 9 (see pag	;es 8–9 o	f Instructions)),
E.3. Attached garage (top of slad) is	the next higher floor (elevation C2.b	in the diagrams) of the building is	I	feet] meters	above or	below the H
E4. 100 or plattorm of machinery and/or equipment servicing the building is	E3. Attached garage (top of slab) is	• · · ·		∐ feet □	J meters	∐ above or	∐ below the H
SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMAissued or community-issued Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge. Property Owner or Owner's Authorized Representative's Name Address City State ZP Code Signature Date Telephone Comments Check here if attachm SECTION G – COMMUNITY INFORMATION (OPTIONAL) 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 G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico arky, enter 1 C1 The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or ar who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.) C2. A community official completed Section E for a building located in Zone A (without a FEMAissued or community issued BFE) or Zone AO. C3. The following information (Items G4–G10) is provided for community floodplain management purposes. G4. Permit Number G5. Date Permit Issued G6. Date Certificate Of Compliance/Occupancy Issued <td< td=""><td>E4. Top of platform of machinery and/or E5. Zone AO only: If no flood depth numt ordinance? Yes No Un</td><td>equipment servicing the building is per is available, is the top of the botto known. The local official must certify</td><td>m floor elevated in this information in</td><td>feet accordance w Section G.</td><td>I meters ith the co</td><td>⊔ above or ommunity's flo</td><td>⊔ below the H odplain manager</td></td<>	E4. Top of platform of machinery and/or E5. Zone AO only: If no flood depth numt ordinance? Yes No Un	equipment servicing the building is per is available, is the top of the botto known. The local official must certify	m floor elevated in this information in	feet accordance w Section G.	I meters ith the co	⊔ above or ommunity's flo	⊔ below the H odplain manager
The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMAkissued or community/issued Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge. Property Owner or Owner's Authorized Representative's Name Address City State ZIP Code Signature Date Telephone Comments SECTION G - COMMUNITY INFORMATION (OPTIONAL) The local official who is authorized by law or ordinance to administer the community floodplain management ordinance can complete Sections A, B, C (or G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in items G8-G10. In Puerto Rico ordy, enter IG of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the alevation data in the Comments ordinance to administer the community floodplain management used in tems G8-G10. In Puerto Rico ordy, enter IG of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the reasurement used in tems G8-G10. In Puerto Rico ordy, enter IG of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the reasurement used in tems G8-G10. In Puerto Rico ordy, enter IG of this Elevation certificate completed covent ato that a been signed and seeded by a licensed surveyor, regimeer, or a surveyor, is provided for community floodplain management 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 G8. Elevation of as-buil lowest floor (including basement) of the building:	SECTION	F – PROPERTY OWNER (OR OM	INER'S REPRES	SENTATIVE)	CERTIFI	CATION	
Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge. Property Owner or Owner's Authorized Representative's Name Address City State ZIP Code Signature Date Telephone Comments	The property owner or owner's authorized	d representative who completes Sect	ons A, B, and F for	Zone A (witho	ut a FEM	Aissued or co	mmunitvissued
Address City State ZIP Code Signature Date Telephone Comments	Zone AO must sign here. The statement Property Owner or Owner's Authorized Re	s in Sections A, B, and E are correct t presentative's Name	o the best of my k	nowledge.			
Signature Date Telephone Comments	Address		City		State	ZIP (Code
Comments Check here if attachm SECTION G – COMMUNITY INFORMATION (OPTIONAL) 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 G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items C8–G10. In Puerto Rico only, enter r G1 The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or an who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.) G2. A community official completed Section E for a building located in Zone A (without a FEMAissued or community/sued BFE) or Zone AO. G3. The following information (Items G4–G10) is provided for community floodplain management 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 Elevation of as-built lowest floor (including basement) of the building:	Signature		Date		Teleph	ione	
Check here if attachm SECTION G – COMMUNITY INFORMATION (OPTIONAL) 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 Gof this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or ar who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.) G2. A community official completed Section E for a building located in Zone A (without a FEMAissued or community-issued BFE) or Zone AO. G3. The following information (Items G4–G10) is provided for community floodplain management 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 G8. Elevation of as-built lowest floor (including basement) of the building: G9. BFE or (in Zone AO) depth of flooding at the building site: G10.Community's design flood elevation: Coal Official's Name Telephone Signature Date Comments	Comments						
SECTION G – COMMUNITY INFORMATION (OPTIONAL) 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 G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items 68–610. In Puerto Ricc only, enter r G1 The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or ar who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.) G2. A community official completed Section E for a building located in Zone A (without a FEMAissued or community-issued BFE) or Zone AO. G3. The following information (Items G4–G10) is provided for community floodplain management 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 G8. Elevation of as-built lowest floor (including basement) of the building: Ifeet meters Datum G10.Community's design flood elevation: Ifeet meters Datum Image: Signature Date Comments						Chec	k here if attachm
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 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 r G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or an who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.) G2. A community official completed Section E for a building located in Zone A (without a FEMAissued or communityissued BFE) or Zone AO. G3. The following information (Items G4–G10) is provided for community floodplain management 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 G8. Elevation of as-built lowest floor (including basement) of the building:		SECTION G - COMMUNITY	(INFORMATION	I (OPTIONAL	.)		
G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or an who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.) G2. A community official completed Section E for a building located in Zone A (without a FEMAissued or communityissued BFE) or Zone AO. G3. The following information (Items G4–G10) is provided for community floodplain management 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 G8. Elevation of as-built lowest floor (including basement) of the building:	The local official who is authorized by law G of this Elevation Certificate. Complete t	or ordinance to administer the commu he applicable item(s) and sign below. (nity's floodplain ma Check the measure	anagement ordi ment used in It	nance car ems G8-0	n complete Sec G10. In Puerto	ctions A, B, C (or Rico only, enter r
G2. A community official completed section c for a building located in 20ne A (without a FEMAHssued or communityHssued BFE) or Zone AO. G3. The following information (Items G4–G10) is provided for community floodplain management 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 G8. Elevation of as-built lowest floor (including basement) of the building:	G1. The information in Section C w who is authorized by law to cer	as taken from other documentation t ify elevation information. (Indicate the	hat has been sign he source and date	ed and sealed e of the elevat	by a lice ion data i	nsed surveyor in the Comme	r, engineer, or ar ents area below.)
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 G8. Elevation of as-built lowest floor (including basement) of the building:	G3. The following information (Item	s G4–G10) is provided for communit	ייד א (without a FE) y floodplain manag 	gement purpos	ses.	yissuea BFE) (
G7. This permit has been issued for: New Construction Substantial Improvement G8. Elevation of as-built lowest floor (including basement) of the building:	G4. Permit Number	G5. Date Permit Issued	G6	. Date Certifica	ite Of Cor	npliance/Occu	upancy Issued
G8. Elevation of as-built lowest floor (including basement) of the building: G9. BFE or (in Zone AO) depth of flooding at the building site: G10.Community's design flood elevation: Local Official's Name Title Community Name Signature Date	G7. This permit has been issued for:	New Construction Substar	ntial Improvement				
G3. Dr L or (in 2 one A0) depth of modaling at the building site:	G8. Elevation of as-built lowest floor (in	cluding basement) of the building:	·	Lifeet	meters	Datum	
Local Official's Name Title Signature Date Signature Comments	us. Bre or (in 4one AO) depth of floodii G10 Community's design flood aloyetics	ig at the duilding site:			meters	Datum	
Local Official's Name Title Community Name Telephone Signature Date Comments		•					
Signature Date	Local Official's Name		Title				
Comments	community Name		Ielephone				
	Signature Comments						
· · ·	oonments			* <u> </u>			

FEMA Form 086-0-33 (Revised 7/12)

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Replaces all previous editions.

ATION CERTIFICATE, page 3

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

IMPORTANT: In these spaces, copy the com	esponding information from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, 112 Melrose Avenue	Suite, and/or Bldg. No.) or P.O. Route and Box No.	Policy Number:
City Neptune	State ZIP Code NJ 07753	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.



FRONT VIEW 7-14-15



LEFT SIDE VIEW

ATION CERTIFICATE, page 4

BUILDING PHOTOGRAPHS Continuation Page

IMPORTANT: In these spaces, copy the correspo	nding information from	Section A.	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite 112 Melrose Avenue	e, and/or Bidg. No.) or P	O. Route and Box No.	Policy Number:		
City Neptune	State NJ	ZIP Code 07753	Company NAIC Number:		

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.



REAR VIEW 7-14-15

RIGHT SIDE VIEW

7-14-15



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ESR-2074

Reissued 02/2015 This report is subject to renewal 02/2017.

DIVISION: 08 00 00—OPENINGS SECTION: 08 95 43—VENT5/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*

Reissued February 2015

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A Subsidiary of the International Code Council®

This report is subject to renewal February 2017.

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)[†]

 $^{\rm T} \rm The ~ADIBC$ 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[®] 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

*Revised July 2015

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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).

	· · · · · · · · · · · · · · · · · · ·		
MODEL NAME		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
Wood Wall FloodVENT [®] Wood Wall FloodVENT [®] Overhead Door SmartVENT® Stacker FloodVent® Stacker	1540-514 1540-570 1540-574 1540-511 1540-521	15 /4" X / /4" 14" X 8 ³ /4" 14" X 8 ³ /4" 16" X 16" 16" X 16"	200 200 200 400 400

TABLE 1-MODEL SIZES

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

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

C

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

SECTION A PROPERTY INFORMATION						FOR INSL	FOR INSURANCE COMPANY U		
A1. Building Owne George V. Kaden	r's Name					Policy Nu	mber:		
A2. Building Street Box No. 93 Inskip Avenue	Address (inc	luding Apt., Unit, Suite	e, and/or	Bldg. No.) or	P.O. Route and	Company	NAIC Number:		
City	•			State		I ZIP. Code			
Township Of N	eptune		÷	New Jers	ey	07756			
A3. Property Desc Tax Block 285 Lo	ription (Lot ar t 8	nd Block Numbers, Ta	x Parcel	Number, Leg	al Description, e	etc.)			
A4. Building Use (e.g., Residen	tial, Non-Residential, /	Addition,	Accessory, e	etc.) Resident	ial			
A5. Latitude/Longi	tude: Lat, 40)d 12m 28.41s N	Long. 74	d 00m 41.56	s N Horizont	al Datum: 🔲 NAD	D 1927 🔀 NAD 1983		
A6. Attach at least	2 photograp	hs of the building if the	e Certifica	ate is being u	sed to obtain floo	od insurance.			
A7. Building Diagr	am Number	8							
A8. For a building	with a crawls	pace or enclosure(s):			í				
a) Square foo	tage of crawl	space or enclosure(s)		1	008.00 sq ft		۵		
b) Number of	permanent flo	ood openings in the cra	awlspace	or enclosure	(s) within 1.0 foo	ot above adjacent g	grade 7		
c) Total net ar	ea of flood op	penings in A8.b	1	400.00 sq in					
d) Engineered	l flood openir	ngs? 🛛 Yes 🗍 N	lo						
	with an attack								
A9. For a building (, eu garage.		NI/A co ft					
a) Square foo	age of attach	led garage		<u> </u>					
b) Number of	permanent flo	ood openings in the at	tached ga	arage within	1.0 foot above ad	djacent grade N/A			
c) Total net ar	ea of flood op	benings in A9.b		N/A sq	in				
d) Engineered	flood openin	gs? 🗌 Yes 🗌 N	10						
·····	SE	CTION B - FLOOD	INSURA	NCE RATE	MAP (FIRM) IN	FORMATION			
B1. NFIP Commur	ity Name & C	Community Number		B2. County	Name		B3. State		
Township Of Nept	une / 340317			Monmouth			New Jersey		
34. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIR Effe Rev	M Panel ective/ vised Date	B8. Flood Zone(s)	B9. Base Flood (Zone AO,	d Elevation(s) use Base Flood Depth)		
34025C0334	F	09-25-2009	09-25-2	2009	x				
B10. Indicate the	source of the	Base Flood Elevation	(BFE) da	ata or base fl	ood depth entere	ed in Item B9:			
🗌 FIS Profil	e 🔀 FIRM	Community Deter	mined [Other/Sou	rce:				
B11. Indicate elev	ation datum (used for BFE in Item B	89: 🗌 N	G V D 1929	🔀 NAVD 1988	Other/Sourc	e:		
B12, Is the buildin	g located in a	a Coastal Barrier Reso	ources Sy	stem (CBRS) area or Otherw	ise Protected Area	a (OPA)? 🗌 Yes 🔀 N		

PORTANT: In these spaces, copy the co	orresponding information from S	ection A.	FORI	NSURANCI	E COMPANY US
Building Street Address (including Apt., Unit, 93 Inskip Avenue	Suite, and/or Bldg. No.) or P.O. R	oute and Box No.	Policy	Number:	
City Fownship Of Neptune	State Z New Jersey 0	IP Code 7756	Comp	any NAIC N	umber
SECTION C – B	UILDING ELEVATION INFORM	ATION (SURVEY F	REQUIR	ED)	
C1. Building elevations are based on: [*A new Elevation Certificate will be red	Construction Drawings* B Quired when construction of the bui	uilding Under Const Iding is complete.	ruction*	🔀 Finish	ed Construction
C2. Elevations – Zones A1–A30, AE, AH, Complete Items C2.a–h below accord	A (with BFE), VE, V1–V30, V (with ing to the building diagram specifie	BFE), AR, AR/A, AF ed in Item A7. In Pue	R/AE, AR rto Rico	R/A1–A30, A only, enter r	R/AH, AR/AO. neters.
Benchmark Utilized: Neptune Twp. Mo	on. #3 Vertical Datu	m: <u>NAVD 1988</u>			
Indicate elevation datum used for the	elevations in items a) through h) be	elow.			
□ NGVD 1929 🔀 NAVD 198	8 Other/Source:				
Datum used for building elevations mu	ist de the same as that used for the	e Bre.	Ch	eck the me	asurement used.
a) Top of bottom floor (including base	ment, crawlspace, or enclosure flo	or)	9.8	🔀 feet	meters
b) Top of the next higher floor		<u></u>	14.5	🔀 feet	meters
c) Bottom of the lowest horizontal stru	uctural member (V Zones only)		N/A	🗌 feet	meters
d) Attached garage (top of slab)		<u> </u>	N/A	🗌 feet	meters
 e) Lowest elevation of machinery or e (Describe type of equipment and lo 	equipment servicing the building ocation in Comments)		14.5	🔀 feet	meters
f) Lowest adjacent (finished) grade n	ext to building (LAG)		9.8	🔀 feet	meters
g) Highest adjacent (finished) grade r	next to building (HAG)	·	10.0	🔀 feet	meters
 h) Lowest adjacent grade at lowest el structural support 	levation of deck or stairs, including		9.1	🔀 feet	meters
SECTION D -	SURVEYOR, ENGINEER, OR A	RCHITECT CERTI	FICATIO	N	
This certification is to be signed and sealed I certify that the information on this Certific statement may be punishable by fine or im	d by a land surveyor, engineer, or a ate represents my best efforts to ir prisonment under 18 U.S. Code, S	architect authorized l aterpret the data avai Section 1001.	by law to <i>ilable. I u</i>	certify eleven certify eleven conderstand t	ation information hat any false
Were latitude and longitude in Section A pr	rovided by a licensed land surveyo	r? 🛛 Yes 🗌 No		Check here	e if attachments.
Certifier's Name Michael J. Williams	License Number NJ GS25800				
Professional Land Surveyor				Ç.	
Company Name Michael J. Williams Land Surveying LLC					
Address 56 Main Avenue				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
City Ocean Grove	State New Jersey	ZIP Code 08756			
Signature	Date 09-27-2018	Telephone (732) 988-6440	Ext.		
Copy all pages of this Elevation Certificate a	nd all attachments for (1) community	/ official, (2) insurance	e agent/c	ompany, and	d (3) building owr
Comments (including type of equipment an +. All flood vents are Smartvents Model 15 above elevation 14.5. The air conditioner of floor elevation of 14.5.	d location, per C2(e), if applicable 540-510. See specifications attach condenser unit is on a timber platfo) ed. Heating system orm adjacent to the e	and hot exterior of	water heate f the dwellin	r are all situated g at finished first

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Ity State ZIP Code Company NAIC Number For ship Of Neptune SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BEE) For Zones AO and A (without BEE), complete Items E1-E3F. If the carlifacte is interned to support a LOMA or LOMA-F request, increments In Porto Rice only. Section A, B, and C. For Items E1-E4F, use natural grade, if available. Check the measurement used. In Puerto Rice only. In Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the heights adjacent grade (LAG). 31. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the heights adjacent grade (LAG). If the hights a diponet grade (LAG). 32. Froy abiliting Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1-2 of Instructions the ediagrams) of the building is If eet I meters above or below the L 33. Attached garage (top of slab) is If eet I meters above or below the H above or below the H 34. Top of platform of machinery and/or equipment servicing the building is If eet I meters above or below the H 35. Zone AO any If no fload dept number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? No If the ord dept number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? 36. Sone AO only If no fload d	تنالانان المنافقة (including Apt., Unit, Suit) المنافعة المنافعة (including Apt., Unit, Suit)	e, and/or Bldg. No.) or	P.O. Route and B	ox No.	Policy Number	r:
ownsing D1 Neptune New dersey 07765 SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOR REQURED) FOR ZONE AO AND ZONE A (WITHOUT BFE) or Zones AO and A (without BFE), complete items E1-ES. If the Cartificate is intended to support a LOMA or LOMR-F request, inter meters. 1. 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 if ent b) Top of bottom floor (including basement, crawlspace, or enclosure) is if ent carawlspace, or enclosure) is if ent 22. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1-2 of Instructions the exiting floor (elevated) for elevated in accordance with the community's floodplain management ordinance? 3. Attached garage (top of slab) is if ent is of addiagrams 6-0 with permanent flood openings provided in Section Floor elevated in accordance with the community's floodplain management ordinance? Sections F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION Section F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION <td< th=""><th>Xity</th><th>State</th><th>ZIP Code</th><th></th><th>Company NAI</th><th>C Number</th></td<>	Xity	State	ZIP Code		Company NAI	C Number
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93 Ins	skip	Avenue					
City			State	ZIP Code		Company N	AIC Number
Towns	ship	Of Neptune	New Jers	ey 07756			
			SECTION G COMMU	NITY INFORMATION (C	PTIONAL)	_	
The Io Sectio used i	ocal ons A in Ite	official who is authorize A, B, C (or E), and G of ems G8–G10. In Puerto	ed by law or ordinance to admir f this Elevation Certificate. Com o Rico only, enter meters.	nister the community's fl plete the applicable iter	oodplain ma n(s) and sig	anagement or In below. Cheo	dinance can complete ck the measurement
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G 2. [A community official co or Zone AO.	ompleted Section E for a buildir	ng located in Zone A (wit	thout a FEN	A-issued or c	community-issued BFE
G3. [The following informati	ion (Items G4–G10) is provided	for community floodpla	in managen	nent purposes	i.
G4. P	erm	it Number	G5. Date Pern	nit Issued	G6.	Date Certifica Compliance/C	te of Occupancy Issued
G7. T	ſhis	permit has been issued	d for:	ion 🔲 Substantial Impr	ovement		
G8. E c	Elev: of th	ation of as-built lowest ne building:	floor (including basement)	·	fee	et 🗌 meters	Datum
G9. E	BFE	or (in Zone AO) depth	of flooding at the building site:		fee	et 🗌 meters	Datum
G10. (Com	nmunity's design flood e	elevation:		fee	et 🗌 meters	Datum
Local (Offic	cial's Name		Title			
Comm	nunit	ty Name		Telephone			
Signat	ure			Date			
Comm	ente	s (including type of equ	inment and location ner C2(e)	if applicable)			
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BUILDING PHOTOGRAPHS

See Instructions for Item A6.

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

ORTANT: In these spaces, copy the co	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, 93 Inskip Avenue	Suite, and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:
City	State	ZIP Code	Company NAIC Number
Township Of Neptune	New Jersey	07756	

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

ATION CERTIFICATE



Photo Two Caption

FEMA Form 0860-33 (7/15)

Clear Photo Two Form Page 5 of 6

BUILDING PHOTOGRAPHS Continuation Page

ATION CERTIFICATE

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

ORTANT: In these spaces, copy the corresp	FOR INSURANCE COMPANY US		
Building Street Address (including Apt., Unit, Suite 93 Inskip Avenue	Policy Number:		
City Township Of Neptune	State New Jersey	ZIP Code 07756	Company NAIC Number

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 Three Caption



Clear Photo Three

LEFT SIDE VIEW 10/04/18

Photo Four Caption

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

Replaces all previous editions.

Clear Photo Four Form Page 6 of 6



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ICC-ES Evaluation Report

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ESR-2074

Reissued 02/2017 This report is subject to renewal 02/2019.

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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"2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence"

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ESR-2074

<u>www.icc-es.org</u> | (800) 423-6587 | (562) 699-0543

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,

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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

e,

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
			and the second se

TABLE 1-MODEL SIZES

For SI: 1 inch = 25.4 mm; 1 square foot = m²

Page 3 of 5



FIGURE 1-SMART VENT: MODEL 1540-510



FIGURE 2-SMART VENT MODEL 1540-520



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



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ESR-2074 CBC and CRC Supplement

Issued February 2017 Revised November 2017

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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 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent[®] Automatic Foundation Flood Vents, recognized in ICC-ES master evaluation report ESR-2074, have also been evaluated for compliance with codes noted below.

Applicable code edition:

2016 California Building Code (CBC)

■ 2016 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with 2016 CBC Chapter 12, provided the design and installation are in accordance with the 2015 *International Building Code*[®] (IBC) provisions noted in the master report and the additional requirements of CBC Chapters 12, 16 and 16 A, as applicable.

The products recognized in this supplement have not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.2 CRC:

The Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the 2016 CRC, provided the design and installation are in accordance with the 2015 *International Residential Code*[®] (IRC) provisions noted in the master report.

The products recognized in this supplement have not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The products recognized in this supplement have not been evaluated for compliance with the International Wildland–Urban Interface Code[®].

This supplement expires concurrently with the master report, reissued February 2017 and revised November 2017.

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ESR-2074 FBC Supplement

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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 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent[®] Automatic Foundation Flood Vents, recognized in ICC-ES master report ESR-2074, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2017 Florida Building Code—Building
- 2017 Florida Building Code—Residential

2.0 CONCLUSIONS

The Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the *Florida Building Code—Building* and the FRC, provided the design and installation are in accordance with the 2015 *International Building Code*[®] provisions noted in the master report.

Use of the Smart Vent[®] Automatic Foundation Flood Vents has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and the *Florida Building Code—Residential*.

For products falling under Florida Rule 9N-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the master report, reissued February 2017 and revised November 2017.

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

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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)	communit	v official.	(2) insurance a	aent/com	pan	v. and ((3)) building	owner.
--	--	----	----------	-------------	----	---------------	----------	-----	----------	-----	------------	--------

SECTION					RANCE COMPANY USE	
A1. Building Owner's Name PHIL AND MICHELLE ERBE				Policy Num	ber:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 116 BEVERLY WAY						
		State	•	ZIP Code		
NEPTUNE TOWNSHIP New Jersey 07753						
LOT 9 BLOCK 475	OCK NUMDERS, 1 ax Pai	rcei number, Legai De	scription, etc.)			
A4. Building Use (e.g., Residential, N	Non-Residential, Addit	ion, Accessory, etc.)	RESIDENTIAL			
A5. Latitude/Longitude; Lat. 40 - 11	- 39.296" Long	g. <mark>74 - 02' -27</mark> .893"	Horizontal Datum	III NAD 1	1927 🗙 NAD 1983	
A6. Attach at least 2 photographs of	the building if the Cert	tificate is being used to	o obtain flood insura	ince.	•	
A7. Building Diagram Number	7					
A8. For a building with a crawlspace	or enclosure(s):	:				
a) Square footage of crawlspace	e or enclosure(s)	1,094 sq ft				
b) Number of permanent flood o	penings in the crawlsp	pace or enclosure(s) w	ithin 1.0 foot above	adjaçent gr	ade 6	
c) Total net area of flood opening	gs in A8.b 1,200	sq in				
d) Engineered flood openings?	X Yes No	_				
AQ For a building with an attached g			,			
	arage. 336					
a) Square footage of attached g		sq.u				
b) Number of permanent flood o	penings in the attache	ed garage within 1.0 for	ot above adjacent g	rade	2	
c) Total net area of flood opening	gs in A9.b 400	sq in				
d) Engineered flood openings? X Yes No						
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION						
B1. NFIP Community Name & Comm NEPTUNE TWP. 340317	unity Number	B2. County Name MONMOUTH			B3. State New Jersey	
B4. Map/Panel B5. Suffix B6. Number	FIRM Index B7 Date B7	. FIRM Panel Effective/	B8. Flood Zone(s)	B9, Bas (Zo	se Flood Elevation(s) ne AO, use Base	
34025C0333 F 09/25/2009 09/25/2009 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:		s 🔲 opa			ie e	

(ANT: In these spaces copy the	corresponding information fro	m Section A.	FOR INSURANCE COMPANY U
ing Street Address (including Apt., Un δ BEVERLY WAY	it, Suite, and/or Bldg. No.) or P.C	D. Route and Box No.	Policy Number:
	State New Jersey	ZIP Code 07753	Company NAIC Number
SECTION C -	BUILDING ELEVATION INFO	RMATION (SURVEY R	EQUIRED)
 C1. Building elevations are based on: *A new Elevation Certificate will be response of the control of the co	Construction Drawings* [equired when construction of the I, A (with BFE), VE, V1–V30, V (v	Building Under Constru- building is complete. with BFE), AR, AR/A, AR	Iction* ⊠ Finished Construction
Complete Items C2.a-h below accor Benchmark Utilized: GPS OBSERV/	ATIONS Vertical D	cified in Item A7. In Puer Datum: <u>NAVD'88</u>	o Rico only, enter meters.
Indicate elevation datum used for the	e elevations in items a) through h	n) below.	
🗌 NGVD 1929 🔀 NAVD 19	88 🔲 Other/Source:		
Datum used for building elevations n	nust be the same as that used fo	r the BFE.	Check the measurement used
a) Top of bottom floor (including bas	ement, crawlspace, or enclosure	e floor)6. 2	X feet I meters
b) Top of the next higher floor		<u> </u>	X feet 🗌 meters
c) Bottom of the lowest horizontal st	ructural member (V Zones only)	N/A	X feet meters
d) Attached garage (top of slab)		5 8	X feet I meters
 e) Lowest elevation of machinery or (Describe type of equipment and 	equipment servicing the building	12.6	X feet meters
f) Lowest adjacent (finished) grade	next to building (LAG)	5,3	⊠ feet □ meters
a) Highest adjacent (finished) grade	next to building (HAG)	5 8	
 h) Lowest adjacent grade at lowest structural support 	elevation of deck or stairs, includ	ling <u>5</u> .2	X feet meters
SECTION D -	- SURVEYOR, ENGINEER, OF	R ARCHITECT CERTIF	ICATION
This certification is to be signed and seale l certify that the information on this Certifi statement may be punishable by fine or ir	ed by a land surveyor, engineer, cate represents my best efforts t mprisonment under 18 U.S. Code	or architect authorized by o interpret the data availate, Section 1001.	/ law to certify elevation informatio able. I understand that any false
Were latitude and longitude in Section A	provided by a licensed land surve	eyor? 🛛 Yes 🗌 No	Check here if attachments
Certifier's Name KENNETH P. FRANK	License Numb PLS 36727	er	
Title PROFESSIONAL LAND SURVEYOR			
Company Name K.F.2.T. PROFESSIONAL LAND SURVE	YORS		Place Seal Here
Address P.O. BOX 521			
City COLTS NECK	State New Jersey	ZIP Code 07722	
Signature KENNETH P. FRANK	Date 01/17/2017	Telephone (988) 692-7853	
Copy all pages of this Elevation Certificate a	and all attachments for (1) commu	nity official, (2) insurance	agent/company, and (3) building ow
Comments (including type of equipment a	nd location, per C2(e), if applica		

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

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

			•
ANT: In these spaces, copy the	FOR INSURANCE COMPANY USE		
ing Street Address (including Apt., Un	Policy Number:		
BEVERLY WAY			
City	State	ZIP Code	Company NAIC Number
NEPTUNE TOWNSHIP	New Jersey	07753	

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 OF HOUSE DATE OF PHOTO 01-17-2017

ION CERTIFICATE



Photo Two Caption RIGHT REAR OF HOUSE DATE OF PHOTO 01-17-2017

JON CERTIFICATE

BUILDING PHOTOGRAPHS

Continuation Page

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

TANT: In these spaces, copy the	FOR INSURANCE COMPANY USE		
ding Street Address (including Apt., Ur 16 BEVERLY WAY	Policy Number:		
City	State	ZIP Code	Company NAIC Number
NEPTUNE TOWNSHIP	New Jersey	07753	

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 Caption RIGHT REAR OF HOUSE DATE OF PHOTO 01-17-2017



Photo Two Caption FRONT LEFT SIDE OF HOUSE DATE OF PHOTO 01-17-2017

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ESR-2074

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DIVISION: 08 00 00—OPENINGS SECTION: 08 95 43—VENT5/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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This report is subject to renewal February 2017.

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)[†]

 $^{\rm T} The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.$

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[®] 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

*Revised July 2015

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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).

$\frac{\text{MODEL SIZE (in.)}}{15^3 4^4 \times 7^3 4^4}$	COVERAGE (sq. ft.)
15 ³ /4" X 7 ³ /4"	
10/4/11/4	200
15 ³ / ₄ " X 7 ³ / ₄ "	200
15 ³ / ₄ " X 7 ³ / ₄ "	200
15 ³ / ₄ " X 7 ³ / ₄ "	200
14" X 8 ³ / ₄ "	200
14" X 8 ³ / ₄ "	200
16" X 16"	400.
16" X 16"	400
-	15 ⁹ / ₄ " X 7 ³ / ₄ " 15 ³ / ₄ " X 7 ³ / ₄ " 15 ³ / ₄ " X 7 ³ / ₄ " 15 ³ / ₄ " X 7 ³ / ₄ " 14" X 8 ³ / ₄ " 16" X 16"

TABLE 1-MODEL SIZES

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