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

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

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

10[1]

38167

SECTION A – PROPERTY INFORMATION	FOR INSURANCE COMPANYINE		
A1. Building Owner's Name Forrest B. Beverly	Policy Number:		
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 636 North Creekside Drive	Company NAIC Number:		
City Murrells Inlet Y State SC ZIP Code 29576	كادر		
A3. Property Description (Lot and Block Numbers, Tax/Parcel Number, Legal Description, etc.) Horry County Tax Parcel Number 197-17-07-005	nille		
 A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u> A5. Latitude/Longitude: Lat. <u>33.572899</u> Long. <u>-79.013229</u> Horizontal Datum: □ NAD 1927 X NAD 1983 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 attact a) Square footage of crawlspace or enclosure(s) A9. Square footage of attact a) Square footage of attact and standard standard	10-1-15 ached garage: ached garage <u>N</u> sq ft		
 b) Number of permanent flood openings in the crawlspace b) Number of permanent flood openings in the crawlspace b) Number of permanent of permanent within 1.0 foot above adjacent grade c) Total net area of flood openings in A8.b c) Total net area of flood openings? c) No c) Total net area of flood openings? 	t flood openings in the attached garage adjacent grade <u>NA</u> d openings in A9.b <u>NA</u> sq in mings? [] Yes X No		
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATIO			
B1. NFIP Community Name & Community Number Horry County 450104 B2. County Name Horry	B3. State South Carolina		
B4. Map/Panel Number 45051C0734B5. Suffix HB6. FIRM Index Date 9/17/2003B7. FIRM Panel Effective/Revised Date 8/23/1999B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 13		
B10. Indicate the source of the Base Florid Elevation (BFE) data or base flood depth entered in Item B9. □ 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)? □ Yes ☑ No □ CBRS □ OPA □ PA			
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQU	RED)		
 C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished 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, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: NGS PIDD 1488 Vertical Datum: NAVD 88 Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 NAVD 1988 Other/Source:			
Chec	k the measurement used		
	x the measurement used.		
a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 7.83 b) Top of the next higher floor 18.35 c) Bottom of the lowest horizontal structural member (V Zones only) NA. d) Attached garage (top of slab) 7.30 e) Lowest elevation of machinery or equipment servicing the building 17.06	x the measurement used.		
a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 7.83 b) Top of the next higher floor 18.35 c) Bottom of the lowest horizontal structural member (V Zones only) NA. d) Attached garage (top of slab) 7.30 e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) 17.06 f) Lowest adjacent (finished) grade next to building (LAG) 6.87 g) Highest adjacent (finished) grade next to building (HAG) 7.44 h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 7.07	Image: measurement used. Image: m		
a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 7.83 b) Top of the next higher floor 18.35 c) Bottom of the lowest horizontal structural member (V Zones only) NA. d) Attached garage (top of slab) 7.30 e) Lowest elevation of machinery or equipment servicing the building 17.06 (Describe type of equipment and location in Comments) f) Lowest adjacent (finished) grade next to building (LAG) 6.87 g) Highest adjacent (finished) grade next to building (HAG) 7.44 h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 7.07 SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICAT	Image: measurement used. Image: me		
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a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 7.83 b) Top of the next higher floor 18.35 c) Bottom of the lowest horizontal structural member (V Zones only) NA. d) Attached garage (top of slab) 7.30 e) Lowest elevation of machinery or equipment servicing the building 17.06 (Describe type of equipment and location in Comments) 6.87 f) Lowest adjacent (finished) grade next to building (LAG) 6.87 g) Highest adjacent (finished) grade next to building (HAG) 7.44 h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 7.07 SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION and that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. information. / 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 X Check here if attachments. licensed land surveyor? Yes No Certifier's Name Sean T. Williams License Number License Number License Numbe	a Image: metasulerine intrused.		
a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 7.83 b) Top of the next higher floor 18.35 c) Bottom of the lowest horizontal structural member (V Zones only) NA. d) Attached garage (top of slab) 7.30 e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) 17.06 f) Lowest adjacent (finished) grade next to building (LAG) 6.87 g) Highest adjacent (finished) grade next to building (HAG) 7.44 h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 7.07 SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICAT This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation formation. 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? Were latitude and surveyor? Yes No Certifier's Name Sean T. Williams License Number Title Land Surveyor Company Name Williams Survey Company, LLC	Image: metasurement used. Image: feet meters		
a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 7.83 b) Top of the next higher floor 18.35 c) Bottom of the lowest horizontal structural member (V Zones only) NA. d) Attached garage (top of slab) 7.30 e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) 7.30 f) Lowest adjacent (finished) grade next to building (LAG) 6.87 g) Highest adjacent (finished) grade next to building (HAG) 7.44 h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 7.07 SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICAT This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify eleval information. <i>I certify that the information on this Certificate represents my best efforts to interpret the data evailable. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.</i> Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by licensed land surveyor? M Certifier's Name Sean T. Williams License Number Title Land Surveyor Company Name Williams Survey Company, LLC Address 1480 Alfrod Rd City Conway State SC	Image: metasurement used. Image: feet Image: feet </td		

ELEVATION CERTIFICATE, page 2

IMPORTANT: in these spaces. co	by the corresponding information from §	Section A.	FOR	ISURANCE COMPANY LISE
Building Street Address (including Apt., Unit, Suite, and/or Bldg, No.) or P.O. Route and Box No.			Policy	Number:
636 North Creekside Drive				
City Murrells Inlet	State SC Z	IP Code 29576	Compa	ny NAIC Number:
SECTION	D - SURVEYOR, ENGINEER, OR ARCHIT	ECT CERTIFICATIO	ON (CONTIN	UED)
Copy both sides of this Elevation Certif	icate for (1) community official, (2) insurance agen	t/company, and (3) bu	ilding owner.	
Comments				· · · · · · · · · · · · · · · · · · ·
	Y			
				•
Signature	Date 9	/30/2015		
For Zones AO and A (without BFE), co and C. For Items E1–E4, use natural g	implete Items E1–E5. If the Certificate is intended jrade, if available. Check the measurement used. I	to support a LOMA or In Puerto Rico only, en	LOMR-F reque ter meters.	est, complete Sections A, B,
E1. Provide elevation information for grade (HAG) and the lowest adia	the following and check the appropriate boxes to a creat grade (LAG)	show whether the elev	ation is above	or below the highest adjacent
a) Top of bottom floor (including	basement, crawlspace, or enclosure) is	feet [] m	eters 🔲 abov	e or 🔲 below the HAG.
E2. For Building Diagrams 6-9 with p	Deservent, crawispace, or enclosure) is Dermanent flood openings provided in Section A It.	ems 8 and/or 9 (see pa	eters ∟ abov ages 8–9 of Ins	e or i below the LAG. structions), the next higher floor
(elevation C2.b in the diagrams)	of the building is feet meters above	ers 🔲 above or 🗌 t	below the HAG	i.
E4. Top of platform of machinery and	I/or equipment servicing the building is	[] feet [] meter	s 🔲 above or	below the HAG.
E5. Zone AO only: If no flood depth	number is available, is the top of the bottom floor e	elevated in accordance	e with the com	munity's floodplain management
	Unknown. The local official must certify this info	EDBESENTATIVE		
SECTION	F - PROPERTY OWNER (UR OWNER'S R	EPRESENIATIVE		
or Zone AO must sign here. The states	ted representative who completes Sections A, B, a nents in Sections A, B, and E are correct to the be	and E for Zone A (with) st of my knowledge.	out a FEMA-is	sued or community-issued BFE)
Property Owner's or Owner's Authorize	ed Representative's Name			
Address	City		State	ZIP Code
Signature	Date		Telephone	
Comments				
······································				<u>Check here if attachments</u>
The least official who is authorized by law	SECTION G - COMMUNITY INFORM		L)	late Sections A. P. C. (or E) and C.
of this Elevation Certificate. Complete the	applicable item(s) and sign below. Check the measure	surement used in Items	G8–G10. In P	uerto Rico only, enter meters.
G1. The information in Section C v	vas taken from other documentation that has been elevation information. (Indicate the source and da	signed and sealed by	a licensed sur in the Comm	veyor, engineer, or architect who
G2. A community official complete	d Section E for a building located in Zone A (witho	ut a FEMA-issued or c	community-issu	ied BFE) or Zone AO.
G3. The following information (Iten	ns G4–G10) is provided for community floodplain r	management purposes	i.	
G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate	Of Complianc	e/Occupancy Issued
G7. This permit has been issued for:	New Construction Substantial Imp	rovement		
G8. Elevation of as-built lowest floor (in	cluding basement) of the building:	🔲 feet 🛛 mete	ers Datu	m
G9. BFE or (in Zone AO) depth of flood	ling at the building site:	i feet i mete	ers Datu	m
G10. Community's design flood elevation	n:	🗌 feet 🛛 mete	ers Datu	m
Local Official's Name	Title	;		
Community Name	Tele	ephone		
Signature	Dat	e		
Comments		······································		
				Check here if attachments

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

ELEVATION CERTIFICATE, page 3

Building Photographs See Instructions for Item A6.

IMPORTANT: In these spaces, copy the	FOR INSURANCE COMPANY USE Policy Number:	
Building Street Address (including Apt., Unit, Su 636 North Creekside Dr		
City Murrells Inlet	State SC ZIP Code 29576	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.



ELEVATION CERTIFICATE, page 4

Building Photographs Continuation Page

MPORTANT: In these spaces, copy the corresponding information from Section A. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 636 North Creekside Dr			FOR INSURANCE COMPANY USE Policy 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.





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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**

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

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ESR-2074*

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

REPORT HOLDER:

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

EVALUATION SUBJECT:

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

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2012, 2009 and 2006 International Building Code[®] (IBC)
- 2012, 2009 and 2006 International Residential Code[®] (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Physical operation
- Water flow

2.0 USES

The Smart Vent[®] units are engineered mechanically operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

3.0 DESCRIPTION

3.1 General:

When subjected to rising water, the Smart Vent[®] FVs internal floats are activated, then pivot open to allow flow in either direction to equalize water level and hydrostatic pressure from one side of the foundation to the other. The FV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water, the buoyant release device causes the unit to unlatch, allowing the door to rotate out of the way and allow flow.

A Subsidiary of the International Code Council®

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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MATERIAL REVIEW & MAINTENANCE INSTRUCTIONS

Objective:

When we set out to design our flood vent products, a comprehensive study was conducted to determine the most important design attributes that would be needed to insure that our customers received the best product available. Because our company started on the shores of the East Coast of New Jersey, everyone placed durability as their number one concern.

Durability:

After extensive research, including review of many less expensive materials, we choose to make the bulk of the components for our vents from stainless steel. Salt will pit stainless steel unless it is rinsed with water. We recommend that the vent be washed with fresh water twice a year. Any red rust or minor surface pitting can be removed with "commercial de-rusting solutions.".

The mechanism that operates the automatic louvers on models 1540-510, 1540-511, 1540-514 and 1540-550 is also entirely made from stainless steel, and water rinsing will reduce corrosion and dirt build-up. Prior to final inspection and testing, the louver mechanism is lubricated with a dry film lubricant. This over the counter lubricant should be applied at minimum one time per year, or when needed. Rinse the louver mechanism, let dry, then spray all of the moving parts. Note: Wet lubricants or grease will allow dirt and sand to accumulate on the moving parts. Use only dry film lubricants.

The bi-metal coil is made from highly engineered materials. The composite contains a large portion of Nickel and the finished coil is secondarily heat-treated, which forms a protective barrier to protect it from the elements. A squirt of dry film lubricant into the coil chamber during maintenance will extend its life.

The floats are manufactured from engineered plastics. An ultra-violet inhibitor was blended into the raw material before molding to insure that the sun does not degrade the functional or dimensional characteristics of the material. Insert a thin blade or a credit card into each side of the vent door's float slot, and the door will easily push open. Rinse the float cavity, then apply a small amount of dry film lubricant on the float, where it contacts the frame.

Like any product, the care one gives will determine its life. We have used the best American materials, along with the best engineering and manufacturing professionals to build our products. With just a little care, your vents will function carefree for many years.



grade or floor anc finished exterior grade immediately under each opening.

5.0 CONDITIONS OF USE

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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 NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
FloodVENT®	1540-520	15 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT [®]	1540-510	15 ³ / ₄ " X 7 ³ / ₄ "	200
FloodVENT [®] Overhead Door	1540-524	15 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT [®] Overhead Door	1540-514	15 ³ / ₄ " X 7 ³ / ₄ "	200
Wood Wall FloodVENT®	1540-570	14" X 8 ³ / ₄ "	200
Wood Wall FloodVENT [®] Overhead Door	1540-574	14" X 8 ³ / ₄ "	200
SmartVENT® Stacker	1540-511	16" X 16"	400
FloodVent® Stacker	1540-521	16" X 16"	400

TABLE 1-MODEL SIZES

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

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FIGURE 1-SMART VENT: MODEL 1540-510



FIGURE 2-SMART VENT MODEL 1540-520



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