# DEPARTMENT OF HOMELAND SECURITY

# Federal Emergency Management Agency **ELEVATION CERTIFICATE**

**IMPORTANT: FOLLOW THE INSTRUCTIONS ON PAGES 9-16** 

OMB Control Number: 1660-0008 copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner. Expiration: 11/30/2018 SECTION A - PROPERTY INFORMATION FORM INSURANCE COMPANY USE A1. Building Owner's Name BRYAN V. AND TARA L. LICH Policy Number: BWLK#43360 A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No Company NAIC 391 SNOW DRIVE Number: City FORT MYERS State FL Zip Code 33919 A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) LOT 19, MCGREGOR ISLES UNIT NO 4 (PB 17, PGS 113-114) SECTION 16-45-24 A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) DETACHED GARAGE A5. Latitude/Longitude: Lat. 26°33'50.3" Long. 81°54'54.2". Horizontal Datum: **NAD 1927** 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 A8. For a building with a crawlspace or enclosure(s): A9. For a building with an attached garage: a) Square footage of crawlspace or enclosure(s) 600+/a) Square footage of attached garage sa ft N/A sq ft b) Number of permanent flood openings in the b) Number of permanent flood openings crawlspace or enclosure(s) within 1.0 foot in the attached garage within 1.0 foot above adjacent grade 4 above adjacent grade N/A c) Total net area of flood openings in A8.b 800 sq in c) Total net area of flood openings in A9.b N/A sa in d) Engineered flood openings? Yes ()No d) Engineered flood openings? No SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number B3. State LEE COUNTY 125124 LFF B4. Map/Panel Number B5. Suffix B6. FIRM Index Date B7. FIRM Panel Effective/ B8. Flood Zone(s) B9. Base Flood Elevation(s) Revised Date (Zone AO, use base flood depth 12071C0410 8-28-08 8-28-08 AE 8' (NAVD 1988) B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: OFIS Profile OFIRM Ocommunity Determined Oother/Source: B11. Indicate elevation datum used for BFE in Item B9: \(\infty\) NGVD 1929 \(\infty\)NAVD 1988 \(\infty\)Other/Source: B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? OYes Designation Date: ()CBRS OPA SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) C1. Building elevations are based on: Construction Drawings\* Building Under Construction\* 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. A new Elevation Certificate will be required when construction of the building is complete. NGS BM G-242 Vertical Datum: NAVD 1988 Benchmark Utilized: Indicate elevation datum used for the elevations in items a) through h) below. ONGVD 1929 ONAVD 1988 Other/Source: Datum used for building elevations must be the same as that used for the BFE. Check the measurement used. Top of bottom floor (including basement, crawlspace, or enclosure floor) 6 feet meters N/A b) Top of the next higher floor feet meters c) Bottom of the lowest horizontal structural member (V Zones only) N/A feet meters d) Attached garage (top of slab) N/A feet meters e) Lowest elevation of machinery or equipment servicing the building 8 efeet meters (Describe type of equipment and location in Comments) Lowest adjacent (finished) grade next to building (LAG) 6 0 • feet meters g) Highest adjacent (finished) grade next to building (HAG) 5 efeet meters h) Lowest adjacent grade at lowest elevation of deck or stairs, including N/A structural support feet meters

# **ELEVATION CERTIFICATE**

OMB Control Number: 1660-0008 Expiration: 11/30/2018

391 SNOW DRIVE	FORT MYERS	, FL .		33919	
	- SURVEYOR, ENG				
This certification is to be signed and sealed be that the information on this Certificate representation on the properties of the properti	ents my best efforts to	to interpret the	hitect authorized data available. I	by law to certify elevation information. I certify understand that any false statement may be	
Check here if attachments.	Were latitude and longitude in Section A			337 L. G17477	
Certifier's Name Robert L. Carmelia		License Nur 6548	nber		
Title Professional Surveyor and Mapper		Company Name Bean, Whitaker, Lutz and Kareh, Inc. LB4919		PLACE SEAL HERE	
Address 13041-1 McGregor Blvd.	City Fort Myers	State FL	Zip Code 33919	L'obles Propos	
Signature 1	<b>Date</b> 05-24-16	Teleph 239-4	none 81-1331	S S S CLAY CO.	
Copy both sides of this Elevation Certificate f					
Comments (including type of equipment and A8 c) THERE ARE 4 MODEL #1540-520 SM PROVIDES FOR 200 SQ. FT. OF FLC C2 a) INDICATES ELEVATION OF GARAGE C2 e) INDICATES ELEVATION OF AIR CON	IART VENTS INSTAL OOR AREA FOR A TO E FLOOR.	LLED. PER T	HE ATTACHED	ICC-ES CERTIFICATION EACH VENT VERAGE	
	•	8			
Signature III	<u></u>			Date 05-24-16 ZONE AO AND ZONE A (WITHOUT BFE)	
For Zones AO and A (without BFE), complete Sections A, B, and C. For Items E1 -E4, use reference to the following the section of the following for formal for the following for the formal for the formal for for the formal for for the formal for for formal for formal for the formal for formal fo	owing and check the awest adjacent grade ent, crawlspace, ent, crawlspace, ent, crawlspace, ent flood openings present flood openings present flood openings	appropriate bo	Ofeet Ofeet Or	ether the elevation is above or below the meters above or below the HAG.	
E3. Attached garage (top of slab) is	_		_ Ofeet O	meters bove or below the HAG.	
E4. Top of platform of machinery and /or equ servicing the building is	_	-	Ofeet O		
				n accordance with the community's floodplain	
management ordinance? OYes ONo				formation in Section G.	
SECTION F - PRO The property owner or owner's authorized re community-issued BFE) or Zone AO must si	presentative who cor	mpletes Section	ns A, B, and E f	or Zone A (without a FEMA-issued or ecorrect to the best of my knowledge.	
Property Owner or Owner's Authorized Repl					
Address	City		State	ZIP Code	
Signature	Date		Telephor	ne	
Comments		7	4, -		
		ł			
				*	
				01 -1-1	

OMB Control Number: 1660-000 Expiration: 11/30/201

FL

33919

SEU	TION G - CO	MMUNITY INFORM	IATION (OP	TIONAL)	
The local official who is authorized by law or ord A, B, C (or E), and G of this Elevation Certificat G10. In Puerto Rico only, enter meters.	dinance to ad				ement ordinance can complete Sectionsk the measurement used in Items G8
<ul> <li>The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engined or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)</li> <li>A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.</li> </ul>					
G4. Permit Number		Permit Issued	G6. Date	Certificate	of Compliance/Occupancy Issued
G7. This permit has been issued for: New C	Construction	OSubstantial Imp	rovement		
G8. Elevation of as-built lowest floor (including of the building:		-	Ofeet C	meters	Datum
G9. BFE or (in Zone AO) depth of flooding at th site:	e building		Ofeet (	meters	Datum
G10. Community's design flood elevation:			Ofeet C	meters	Datum
Local Official's Name	19	Title		****	
Community Name		Telephor	пе		
Signature		Date			
Comments					
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		i.			
					Check here if attachment

# **BUILDING PHOTOGRAPHS**

See instructions for Item A6

OMB Control Number: 1660-0008 Expiration: 11/30/2018

MPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE	
Building Street Address (including Apt.,	Unit, Suite, and/or Bldg. No.) or P	P.O. Route and Box No	Policy Number:	
391 SNOW DRIVE			· ·	
City FORT MYERS	State FL	Zip Code 33919	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, 05-24-16** 



**RIGHT SIDE VIEW, 05-24-16** 

# **BUILDING PHOTOGRAPHS**

**Continuation Page** 

OMB Control Number: 1660-0008 Expiration: 11/30/2018

		=		
MPORTANT: In these spaces, copy the correspondi	m Section A.	FORM INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit,Suite, and/o	or Bldg. No.) or P.O.	Route and Box No.		
91 SNOW DRIVE		Policy Number:		
City	State	Zip Code	Company NAIC Number:	
FORT MYERS	FL	33919		

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.



FLOOD VENT, 05-24-16





# **ICC-ES** Report

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

**ESR-2074** 

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

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

# **EVALUATION SUBJECT:**

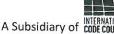
SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514



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ICC-ES Evaluation Report

### ESR-2074

Reissued February 2015

Revised May 2016

This report is subject to renewal February 2017.

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5420-969 (562) | 7836-524 (008) | P10.29-0513 | 5430-9543

Section: 08 95 43—Vents/Foundation Flood Vents

:ЯЭПОН ТЯОЧЭЯ

8988-144 (778) PITMAN, NEW JERSEY 08071 430 ANDBRO DRIVE, UNIT 1 **ЗМАКТУЕИТ РRODUCTS, INC.** 

DIVISION: 08 00 00-OPENINGS

info@smartvent.com www.smartvent.com

# **EVALUATION SUBJECT:**

#1240-2\0; #1240-2\0; #1240-2\0; #1240-2\0; #1240-2\1; WDDET2 #1240-2\0; #1240-2\1; SAME T VENT® AUTOMATIC FOUNDATION FLOOD VENTS:

# 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)

 $^{\rm T}$  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
- wolf reter flow

### S'O O'Z

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

### 3.0 DESCRIPTION

a buoyant release device. When subjected to rising water, the buoyant release device causes the unit to unlatch, FV pivoting door is normally held in the closed position by pressure from one side of the foundation to the other. The either direction to equalize water level and hydrostatic When subjected to rising water, the Smart Vent® FVs internal floats are activated, then pivot open to allow flow in 3.1 General:

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: walls of any thickness. In order to comply with the instructions, the applicable code and this report. Installation clips allow mounting in masonry and concrete the applicable code and this report.

each enclosed area. To sabis a minimum of two openings on different sides of

vents must be in accordance with the manufacturer's construction from the exterior side. Installation of the

wen to gnitziae to erobe baerhead or allsw of nisting or new

 $SmartVENT^{@}$  and  $FloodVENT^{@}$  are designed to be

overnesd Door Model #1540-514 born nave 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 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.

Overhead Door Model #1540-514 both have screen covers

The SmartVENT® Model #1540-510 and SmartVENT®

hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/SEI 24, Smart Vent FVs

IRC)] for a maximum rate of rise and fall of 5.0 feet per 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

Stacking Model #1540-521 units each contain two Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT® Stacking Model #1540-511 and FloodVENT® SmartVENT® Stacking Model #1540-511 and FloodVENT®

The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent®

allowing the door to rotate out of the way and allow flow.

must be installed in accordance with Section 4.0.

4.0 DESIGN AND INSTALLATION

ventilation.

3.3 Ventilation:

3.2 Engineered Opening:

vertically arranged openings per unit.

installed with a minimum of one FV for every 400 square feet (37.2  $\rm m^2)$  of enclosed area. feet (18.6  $\rm m^2)$  of enclosed area, except that the SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 must be ■ With a minimum of one FV for every 200 square



Page 1 of 3

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

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- Below the base flood elevation.
- With the bottom of the FV located a maximum of 12 inches (305.4 mm) above the higher of the final grade or floor and finished exterior grade immediately under each opening.

# 5.0 CONDITIONS OF USE

The Smart Vent® FVs described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The Smart Vent® FVs must be installed in accordance with this report, the applicable code and the manufacturer's installation instructions. In the event of a conflict, the instructions in this report govern. 5.2 The Smart Vent® FVs must not be used in the place of "breakaway walls" in coastal high hazard areas, but are permitted for use in conjunction with breakaway walls in other areas.

### 6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015.

# 7.0 IDENTIFICATION

The Smart VENT® models recognized in this report must be identified by a label bearing the manufacturer's name (Smartvent Products, Inc.), the model number, and the evaluation report number (ESR-2074).

### TABLE 1-MODEL SIZES

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

For SI: 1 inch = 25.4 mm; 1 square foot =  $\text{m}^2$ 

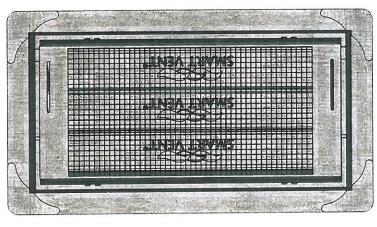


FIGURE 1-SMART VENT: MODEL 1540-510

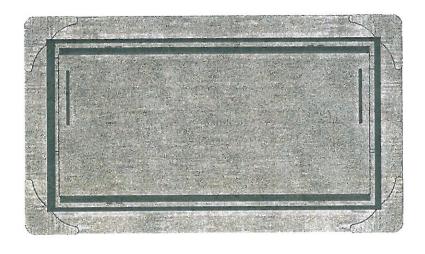


FIGURE 2-SMART VENT MODEL 1540-520



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



# **ICC-ES Evaluation Report**

# **ESR-2074 FBC Supplement**

Reissued February 2015 Revised March 2016 This report is subject to renewal February 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:**

 $\begin{array}{l} \textbf{SMART VENT}^{\otimes} \ \textbf{AUTOMATIC FOUNDATION FLOOD VENTS: MODELS \#1540-520; \#1540-521; \#1540-510; \#1540-511; \#1540-570; \#1540-524; \#1540-514 \end{array}$ 

# 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:

- 2014 Florida Building Code—Building (FBC)
- 2014 Florida Building Code—Residential (FRC)

### 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 FBC and the FRC, provided the design and installation are in accordance with the *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 FBC and the FRC.

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 2015 and revised May 2016.

Page 1 of 1