.S. DEPARTMENT OF HOMELAND SECURITY		ON CERTIFIC		OMB No. 1660-0008
ederal Emergency Management Agency	ELEVAII	UN CERTIFIC	AIE	Evoires March 31 201
ational Flood Insurance Program	Important: Read	I the instructions on	pages 1-9.	······
	SECTION A	- PROPERTY INFOR	MATION	For Insurance Company Use:
1. Building Owner's Name	JoHIS& JU	DITH HOYES		Policy Number
2. Building Street Address (including Apt., Unit 596 HALVARD LAN	t, Suite, and/or Bldg. No	.) or P.O. Route and Box	No.	Company NAIC Number
City LONG BOAT KEY		State FL		ZIP Code 34228
3. Property Description (Lot and Block Numbe	Tax Parcel Number,	Legal Description, etc.)	•.	
4. Building Use (e.g., Residential, Non-Reside	ntial, Addition, Accessor	y, etc.) RESIDEN	STIAL	1
 Latitude/Longitude: Lat. <u>27° 20' Å6</u> Attach at least 2 photographs of the building 		2 35'54.84"	Horizontal Da	atum: NAD 1927 NAD 198
17. Building Diagram Number 📙 B				
 A8. For a building with a crawlspace or enclosur a) Square footage of crawlspace or enclos 			building with an attac quare footage of attac	
b) No. of permanent flood openings in the	crawlspace or	b) N	lo. of permanent flood	openings in the attached garage
enclosure(s) within 1.0 foot above adjac c) Total net area of flood openings in A8.b	ent grade		vithin 1.0 foot above ac otal net area of flood o	
d) Engineered flood openings?	No No		ingineered flood openi	
		ANCE RATE MAP (FI	RM) INFORMATION	
1. NFIP Community Name & Community Numb しのいいろのヘイ しくたり	25126 B2. Cou	Inty Name SARA	SOTA	B3. State FL
	36. FIRM Index	B7. FIRM Panel	B8. Flood	B9. Base Flood Elevation(s) (Zone
25126-0010 B 5	Date 18-97	Effective/Revised Date	Zone(s)	AO, use base flood depth)
0. Indicate the source of the Base Flood Elevat ☐ FIS Profile	tion (BFE) data or base t	lood depth entered in Iter	n B9.	
Indicate elevation datum used for BFE in Iter		Other (Describe)	Other (Describe)	
2. Is the building located in a Coastal Barrier R	esources System (CBR	S) area or Otherwise Prot	ected Area (OPA)?	Yes X No
Designation Date		CBRS OPA		
SECTION C	- BUILDING ELEVAT	ION INFORMATION (SURVEY REQUIRE	ED)
Building elevations are based on: Cons *A new Elevation Certificate will be required w	struction Drawings*	Building Under C	onstruction*	Finished Construction
The Elevator octanoate win be required w		uilding is somelete		
Elevations - Zones A1-A30, AE, AH, A (with E	BFE), VE, V1-V30, V (wit	h BEE) AR ARIA ARIA	= AR/A1-A30 AR/AH	ARIAO Complete Items C2 a h
Elevations – Zones A1-A30, AE, AH, A (with E below according to the building diagram speci	BFE), VE, V1-V30, V (within the second secon	h BFE), AR, AR/A, AR/A same datum as the BFE	1	AR/AO. Complete Items C2.a-h
Elevations – Zones A1-A30, AE, AH, A (with E below according to the building diagram speci Benchmark Utilized <u>SACABOTA</u>	BFE), VE, V1-V30, V (within the second secon	h BEE) AR ARIA ARIA	1	AR/AO. Complete Items C2.a-h
Elevations – Zones A1-A30, AE, AH, A (with E below according to the building diagram speci	BFE), VE, V1-V30, V (within the second secon	h BFE), AR, AR/A, AR/A same datum as the BFE	NGVD	
Elevations – Zones A1-A30, AE, AH, A (with E below according to the building diagram speci Benchmark Utilized <u>SACABOTA</u> Conversion/Comments <u>Nong</u> a) Top of bottom floor (including basement,	BFE), VE, V1-V30, V (within the work of the second	h BFE), AR, AR/A, AR/A, Same datum as the BFE Vertical Datum e floor)	n_NGVD Check the measurem	ent used.
Elevations – Zones A1-A30, AE, AH, A (with E below according to the building diagram speci Benchmark Utilized SACABOTA Conversion/Comments Nong a) Top of bottom floor (including basement, b) Top of the next higher floor	BFE), VE, V1-V30, V (within the constraint of th	th BFE), AR, AR/A, AR/A, Same datum as the BFE Vertical Datum e floor)[2_[2]	Check the measurem feet meter feet meter	
Elevations – Zones A1-A30, AE, AH, A (with E below according to the building diagram speci Benchmark Utilized <u>SACASOTA</u> Conversion/Comments <u>NONE</u> a) Top of bottom floor (including basement, b) Top of the next higher floor c) Bottom of the lowest horizontal structural	BFE), VE, V1-V30, V (within the constraint of th	e floor)	Check the measurem feet mete feet mete feet mete	ent used. rs (Puerto Rico only) rs (Puerto Rico only) rs (Puerto Rico only)
Elevations – Zones A1-A30, AE, AH, A (with E below according to the building diagram speci Benchmark Utilized <u>SACABOTA</u> Conversion/Comments <u>Nong</u> a) Top of bottom floor (including basement, b) Top of the next higher floor c) Bottom of the lowest horizontal structural d) Attached garage (top of slab) e) Lowest elevation of machinery or equipme	BFE), VE, V1-V30, V (with fied in Item A7. Use the Crawlspace, or enclosure member (V Zones only)	th BFE), AR, AR/A, AR/A, same datum as the BFE Vertical Datum e floor)(2(2 	Check the measurem feet mete feet mete feet mete feet mete feet mete	ent used. rs (Puerto Rico only) rs (Puerto Rico only) rs (Puerto Rico only) s (Puerto Rico only)
Elevations – Zones A1-A30, AE, AH, A (with E below according to the building diagram speci Benchmark Utilized <u>SACASOTA</u> Conversion/Comments <u>NONE</u> a) Top of bottom floor (including basement, b) Top of the next higher floor c) Bottom of the lowest horizontal structural d) Attached garage (top of slab) e) Lowest elevation of machinery or equipment (Describe type of equipment and location	BFE), VE, V1-V30, V (with fied in Item A7. Use the Crawlspace, or enclosure member (V Zones only) ent servicing the building in Comments)	th BFE), AR, AR/A, AR/A, same datum as the BFE 	Check the measurem feet mete feet mete feet mete feet mete feet mete feet mete feet mete	ent used. rs (Puerto Rico only) rs (Puerto Rico only) rs (Puerto Rico only) s (Puerto Rico only) s (Puerto Rico only)
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FFMA Form 81-31 Mar 09

See reverse side for continuation

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		Section A.	网络拉尔德尔 斯加拉尔	Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/ ち96 ドキレイチマットムヘビ	or Blog. No.) or P.O. Route and t	50X NO.		cy Number
City LONGBOAT KEY	State FL.	342		npany NAIC Number
SECTION D - SURVEYO	R, ENGINEER, OR ARCHITI	ECT CERTIFICAT	ON (CONTINU	IED)
Copy both sides of this Elevation Certificate for (1) com	nunity official, (2) insurance ager	t/company, and (3) b	uilding owner.	
Comments CZE AIR CONDITION	ER WEST	and a second second second second	· · · · · · · · · · · · · · · · · · ·	and the second
CZE ALIC CODDITION	Der Wirst			n an that the second
and a state of the	ter a transfer and the second s	<u> an </u>		the contraction of the contraction of the
				La companya da
Signature Children Jul	Date	2-24-11		Check here if attachments
SECTION E - BUILDING ELEVATION INFOR	MATION (SURVEY NOT RE	QUIRED) FOR ZO	NE AO AND Z	ONE A (WITHOUT BFE)
The property owner or owner's authorized representative or Zone AO must sign here. <i>The statements in Sections</i> Property Owner's or Owner's Authorized Representative	Check the measurement used. check the appropriate boxes to a pace, or enclosure) is penings provided in Section A Ite feet feet me feet feet me feet above or rvicing the building is ble, is the top of the bottom floor of clocal official must certify this info Y OWNER (OR OWNER'S R who completes Sections A, B, a a, A, B, and E are correct to the be	In Puerto Rico only, show whether the electrony feet meet meeting above or below the HAG below the HAG feet meet below the HAG feet meet cormation in Section G EPRESENTATIVE	enter meters. vation is above of ers above of ages 8-9 of Instr below the HA ters above of ewith the comm) CERTIFICAT hout a FEMA-iss	or below the highest adjacent T below the HAG. T below the LAG. uctions), the next higher floor G. T below the HAG. unity's floodplain management ION ued or community-issued BFE)
Address	City	181.	State	ZIP Code
Signature	Date		Telephone	and a star of the second s
Comments	and a state of the second state	and a second	an an an an an Anna Anna Anna Anna Anna	and a stand of the
		-		
				Check here if attachments
SECTIO	G - COMMUNITY INFORM		the second se	8. A.
	administer the community's flood	niain management o		nolete Sections A B C (or E)
 ne local official who is authorized by law or ordinance to ad G of this Elevation Certificate. Complete the applicate 1. The information in Section C was taken from other is authorized by law to certify elevation information. 2. A community official completed Section E for a law of the sect	le item(s) and sign below. Check her documentation that has been ion. (Indicate the source and dat building located in Zone A (withou	the measurement usigned and sealed by e of the elevation dat ut a FEMA-issued or	a licensed surv a in the Comme	and G9. eyor, engineer, or architect who its area below.)
 ne local official who is authorized by law or ordinance to ad G of this Elevation Certificate. Complete the applicate 1. The information in Section C was taken from other is authorized by law to certify elevation information. 2. A community official completed Section E for a law of the sect	le item(s) and sign below. Check ner documentation that has been ion. (Indicate the source and dat building located in Zone A (withou ided for community floodplain ma	the measurement usigned and sealed by e of the elevation dat ut a FEMA-issued or	y a licensed surv a in the Commen community-issue	and G9. eyor, engineer, or architect who nts area below.) d BFE) or Zone AO.
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ederal Emergency Management Agen National Flood Insurance Program	CV		CERTIFIC		OMB No. 1660 Expires March	
autonan nood mourance Program	Importan	t: Read the in	istructions on p	ages 1-9.		1
A1. Building Owner's Name	SEC	TION A - PRO	PERTY INFORM	ATION	Producer Comercy	
	Jott 13	& JUDITI	Hayes			47 . (m
A2. Building Street Address (including	Apt., Unit, Suite, and/or	Bldg, No.) or P.C	D. Route and Box N	lo.	PERINDERN, NAVE ISIUMDOR	- 1
City LONG BOAT !	/		State -	· · · · · · · · · · · · · · · · · · ·	ZIP Code	51. SX
A3. Property Description (Lot and Blog	ck Numbers Tax Parcel	Number Legal C	escription etc.)		34228	
LOT DLOCKA,	LOUNTRYLL	UBSHOR	ES UNITA			
A4. Building Use (e.g., Residential, No. A5. Latitude/Longitude: Lat. 27°2	on-Residential, Addition,	Accessory, etc.)	RESIDEN 154.84"	Horizontal D	natum: NAD 1927	NAD 1983
A6. Attach at least 2 photographs of the A7. Building Diagram Number	he building if the Certifica	te is being used t	to obtain flood insu	rance.		1000
A8. For a building with a crawlspace o	r enclosure(s):	110	A9. For a t	uilding with an attac	ched garage:	
a) Square footage of crawlspaceb) No. of permanent flood openin	or enclosure(s)	NA sq ft	a) So	uare footage of attac	ched garage 550	sq ft
enclosure(s) within 1.0 foot ab	ove adjacent grade	0	D) NO wit	hin 1.0 foot above a	openings in the attached ga	arage 3
c) Total net area of flood openingd) Engineered flood openings?	IS IN A8.5 Yes No	sq in	c) To	al net area of flood	openings in A9.b	ni pa
		IN COLUMN A MICH		gineered flood open		<u>`600</u>
B1 NEID Community Name 2 C	SECTION B - FLOOD		And a second	A) INFORMATION	N .	
31. NFIP Community Name & Community Name & Community Name & Community	125126	B2. County Nan	ne Siarias	070	B3. State	
B4. Map/Panel Number B5. Suff			IRM Panel	B8. Flood		
25126-0010 B	Date		Revised Date	Zone(s)	B9. Base Flood Elevation AO, use base flood d	n(s) (Zone lepth)
0. Indicate the source of the Base Flo	2-18-4	2 99	5-83	A13	11.0'	
FIS Profile FIRM	Community Determi		oth entered in Item	B9.		
1. Indicate elevation datum used for E	SFE in Item B9: X NGV	D 1929	AVD 1088	Other (Describe)		
2. Is the building located in a Coastal Designation Date	Barrier Resources Syste	m (CBRS) area o	or Otherwise Protec	ted Area (OPA)?	Yes No	
			OPA			
SEC	TION C - BUILDING I	LEVATION IN	FORMATION (S	URVEY REQUIRE	50)	
. Building elevations are based on:	Construction Drawin			and the second	Finished Construction	
"A new Elevation Certificate will be re	aulred when constructio	n of the building i	ie complete			
Elevations – Zones A1-A30, AE, AH, below according to the building diagr	A (WITH BEE), VE, VI-V	30, V (with BFE),	AR, AR/A, AR/AE.	AR/A1-A30, AR/AH,	AR/AO. Complete Items C	2.a-h
a the standing dragt	am specified in Item A7.	Use the same d	atum as the REC			
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	mesponding information from Section A.
Building Street Address (Including Apt., Unit, Suite, a	
596 HALYARD LANE	State ZIP Code
LONGBOAT KEY	FLI BAZZE
SECTION D - SURVE	YOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)
	ommunity official, (2) Insurance agent/company, and (3) building owner.
comments CZE AIR CONDITIO	NER WEST
all an the second s	
Signature P. O. S. Varl	Date 2-24-(1 Check here if attachmen
	ORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BEE)
 and C. For Items E1-E4, use natural grade, if availal E1. Provide elevation information for the following a grade (HAG) and the lowest adjacent grade (L/a) Top of bottom floor (including basement, crab) top of bottom floor (including basement, crab). E3. Attached garage (top of slab) is	Wispace, or enclosure) is
gnature	Date Telephone
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ELEVATION CERTIFICATE, page 4

BUILDING PHOTOGRAPHS

Continuation Page

IMPORTANT: In these spaces, copy the corresponding information from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.	Policy Number:
city Longboat Key FL State ZIP Code 39228	Company NAIC Number:
If submitting more photographs than will fit on the preceding page, affix the additional photographs beldate taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." Whe show the foundation with representative examples of the flood openings or vents, as indicated in Sec	en applicable, photographs must
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	A CONTRACTOR
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A DEALER AND A DEA	
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ICC-ES Evaluation Report

Most Widely Accepted and Trusted

ESR-2074 FBC Supplement

lssued July 2013 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 WWW.smartvent.com 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 #1540-511; WOOD WALL FLOOD MODEL #1540-570; WOOD WALL FLOOD OVERHEAD DOOR MODEL #1540-574; FLOODVENT[™] OVERHEAD DOOR MODEL #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:

- 2010 Florida Building Code—Building (FBC)
- 2010 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 structures not subject to FBC Section 2326.3.1 or FRC Section 4409.13.3.1, as applicable.

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 December 1, 2012, revised June 2014.





ICC-ES Evaluation Report

Most Widely Accepted and Trusted

Reissued December 2012

ESR-2074*

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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 www.smartvent.com 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 M STACKING MODEL #1540-511; WOOD WALL FLOOD MODEL #1540-570; WOOD WALL OVERHEAD DOOR MODEL FLOODVENT M 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 buoyant 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 SmartVENT™ Stacking Model FloodVENT™ Stacking Model #1540-521 units each #1540-511 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 FloodVENT™ Model #1540-520, SmartVENT™ Model #1540-510, FloodVENT™ Overhead Door #1540-524, and SmartVENT™ Overhead Door Model #1540-514 units measure 153/4 inches wide by 73/4 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 83/4 inches high (355.6 by 222.25 mm). The SmartVENT™ Stacking Model #1540-511 and FloodVENT™ 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 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 AFFVs recognized in this report do not offer natural ventilation.

4.0 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 wood, masonry and

*Revised June 2014

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 an endorsement 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



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 Stacking Model #1540-511 and SmartVENT™ 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.
- 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:

Page 2 of 2

- 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 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).