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

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

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A - PROPERTY INFORMATION					FOR INSURANCE COMPANY USE		
A1. Building Owner's Name R. JERRY DAVIES					Policy Number:		
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 6610 HARBOUR BOULEVARD				Company NAIC Number:			
City PANAMA CITY	City PANAMA CITY BEACH			State Florida		ZIP Code 32407	
· · ·	•	nd Block Numbers, Tax UNREC; SEC 28,T3S		-	•	465	
A4. Building Use (e.g., Residen	tial, Non-Residential, A	ddition	, Accessory, etc.)	RESIDENTIAL		
A5. Latitude/Longi	tude: Lat. 30	DEG 12' 01.1"	_ong. <u>8</u>	5 DEG 45' 22.6"	Horizontal Datum	n: NAD	1927 × NAD 1983
A6. Attach at least	2 photograph	ns of the building if the	Certific	cate is being used to	o obtain flood insur	ance.	
A7. Building Diagra	am Number	8					
A8. For a building	with a crawlsp	pace or enclosure(s):					
a) Square foo	tage of crawls	space or enclosure(s)		1,235 sq ft			
b) Number of	permanent flo	od openings in the cra	wispac	e or enclosure(s) w	ithin 1.0 foot above	adjacent gr	ade 6
c) Total net ar	ea of flood op	enings in A8.b2,26	54 s	sq in			
d) Engineered	flood opening	gs? ∐ Yes ⊠ No)				
A9. For a building v	vith an attach	ed garage:					
a) Square foot		-	5	sq ft			
		od openings in the atta		•	ot above adjacent (rrade	2
c) Total net are			00.00 ş		or above adjacom ;		
				sq in			
d) Engineered	noca openini	gs? ⊠ Yes ☐ No)				
	SE	CTION B - FLOOD IN	SURA	NCE RATE MAP	(FIRM) INFORMA	TION	.
B1. NFIP Community Name & Community Number				B2. County Name		B3. State	
BAY COUNTY 120	004			BAY			Florida
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date		IRM Panel	B8. Flood Zone(s	B9. Base Flood Elevation(s (Zone AO, use Base	
12005C0309	Н	06/02/2009	R	evised Date /2009	AE	7.0'	od Depth)
	1 6	00/02/2003	00/02	,2003	, AL		
B10. Indicate the s	ource of the E	Base Flood Elevation (I	3FE) da	ata or base flood de	epth entered in Item	n B9:	
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other/Source:							
B11. Indicate eleva	ition datum us	sed for BFE in Item B9	: 🔲 N	GVD 1929 🗵 NA	.VD 1988 ☐ Ot	her/Source:	
B12. Is the building	located in a	Coastal Barrier Resou	rces Sv	stem (CBRS) area	or Otherwise Prote	ected Area (DPA)? ☐ Yes ☒ No
Designation D		_	•				, <u> </u>

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ELEVATION CERTIFICATE

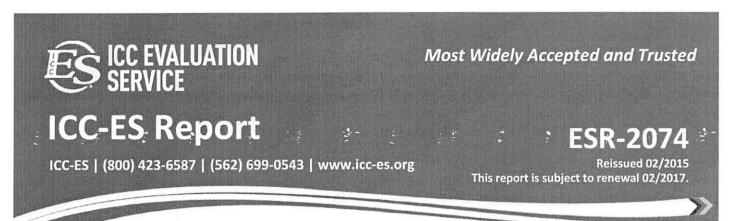
OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding	FOR INSURANCE COMPANY USE				
Building Street Address (including Apt., Unit, Suite, and/or 6610 HARBOUR BOULEVARD	Policy Number:				
City Sta PANAMA CITY BEACH Flo	rida ZIP	Code 07	Company NAIC Number		
SECTION C - BUILDING EL	EVATION INFORMAT	TION (SURVEY RI	EQUIRED)		
C1. Building elevations are based on: Construction *A new Elevation Certificate will be required when concerning to the complete Items C2.a—h below according to the build Benchmark Utilized: NGS BE0693 Indicate elevation datum used for the elevations in incomplete Items C2.a—h below according to the build Benchmark Utilized: NGS BE0693 Indicate elevation datum used for the elevations in incomplete Items C2.a—h below according to the build Benchmark Utilized: NGS BE0693 Indicate elevation datum used for the elevations in incomplete Items C2.a—h below according to the building Benchmark Utilized: NGS BE0693 Indicate elevation datum used for the elevations in incomplete Items C2.a—h below according to the building Benchmark Utilized: NGS BE0693 Indicate elevation floor (including basement, crawlspan) Top of bottom floor (including basement, crawlspan) Top of the next higher floor C) Bottom of the lowest horizontal structural member did Attached garage (top of slab) e) Lowest elevation of machinery or equipment ser (Describe type of equipment and location in Complete Items C2.a—h below according to the building the properties of the building the properties of the properties of the building the properties of the	on Drawings* Builtonstruction of the building VE, V1–V30, V (with Bidding diagram specified Vertical Datum: terms a) through h) below Source: The as that used for the Expanse, or enclosure floor, but in the building of th	ding Under Construng is complete. FE), AR, AR/A, AR/ in Item A7. In Puert NAVD88 w. BFE. 4. 35 8. 86 N/A 6. 63 8. 81 4. 7	Check the measurement used. X Finished Construction X AR A1 A30, AR AH, AR AO. It is construction X AR A1 AR AO. It is construction X Feet meters		
g) Highest adjacent (finished) grade next to building	g (HAG)	<u> </u>	x feet meters		
h) Lowest adjacent grade at lowest elevation of dec structural support	ck or stairs, including	N/A	X feet meters		
SECTION D - SURVEYOR	, ENGINEER, OR ARC	CHITECT CERTIFI	CATION		
This certification is to be signed and sealed by a land su I certify that the information on this Certificate represents statement may be punishable by fine or imprisonment un. Were latitude and longitude in Section A provided by a li	s my best efforts to internder 18 U.S. Code, Seccensed land surveyor? License Number	pret the data availa tion 1001. —	law to certify elevation information. law to certify elevation information information. law to certify elevation information inf		
Title PRESIDENT Company Name DRAGON LAND SURVEY INC. Address 5328 CHERRY STREET City PANAMA CITY Signature	State Florida Date 08/18/2016	ZIP Code 32404 Telephone (850) 763-7997	Place Seal Here 08/74/16 FL L5 Na 4842		
Copy all pages of this Flowsting Partificate and all attachms		. ,	agent/company, and (3) building owner		
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner. Comments (including type of equipment and location, per C2(e), if applicable) THE EQUIPMENT LISTED IN ITEM C2E IS AN AIR CONDITIONER. THE LATITUDE AND LONGITUDE IN ITEM A5 WAS TAKEN FROM THE BAY COUNTY PROPERTY APPRAISER'S WEBSITE. THE VENTS IN THE CRAWL SPACE HAVE NO MODEL NUMBER ON THEM, BUT DO HAVE "NET 64 SQUARE INCHES" IMPRINTED ON THEM. THE GARAGE VENTS ARE MODEL # 1540-574. THE ENGINEERING CERTIFICATION IS INCLUDED WITH THIS DOCUMENT.					

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DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

THE BAY CO. BLDG. DIV. HAS

REVIEWED

THIS PLAN FOR THE PURPOSE

OF PERMITTING CONST.
PLAN MUST REMAIN ON
JOB SITE

ATTACHMENTS

NO.

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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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43-Vents/Foundation Flood Vents

REPORT HOLDER:

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

EVALUATION SUBJECT:

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

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 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 installed with a minimum of one FV for every 400 square feet (37.2 m²) of enclosed area.

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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®	1540-520	15 ³ / ₄ " X 7 ³ / ₄ "	200	
SmartVENT®	1540-510	15 ³ / ₄ " X 7 ³ / ₄ "	200	
FloodVENT® Overhead Door	1540-524	15 ³ / ₄ " X 7 ³ / ₄ "	200	
SmartVENT® Overhead Door	1540-514	15 ³ / ₄ " X 7 ³ / ₄ "	200	
Wood Wall FloodVENT®	1540-570	14" X 8 ³ / ₄ "	200	
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 8 ³ / ₄ "	200	
SmartVENT® Stacker	1540-511·	16" X 16"	400	
FloodVent® Stacker	1540-521	16" X 16"	400	

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

18-22

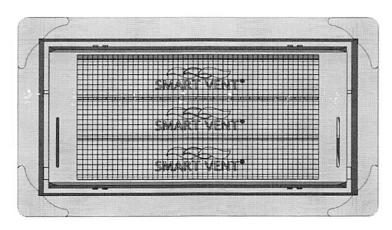


FIGURE 1—SMART VENT: MODEL 1540-510

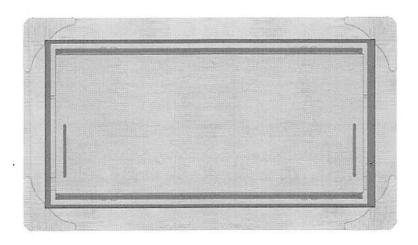


FIGURE 2—SMART VENT MODEL 1540-520

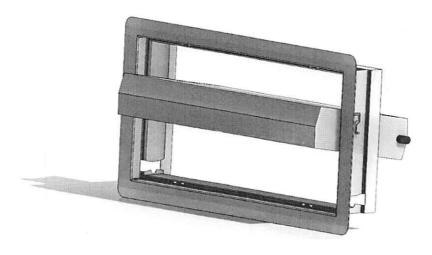


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

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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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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:

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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.



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