3-05356

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

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

Form Page 1 of 6

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.

SE	CTION A - PROPERTY	INFOF	RMATION		FOR INSU	RANCE COMPANY USE
A1. Building Owner's Name KYLE TRIPP					Policy Nurr	nber:
A2. Building Street Address (i Box No. 206 HARRISON AVE	ncluding Apt., Unit, Suite	e, and/	or Bldg. No.) or P.O	. Route and	Company N	NAIC Number:
City BELLEAIR BEACH			State Florida	;	ZIP Code 33786	
A3. Property Description (Lot LOT 4, BILTMORE ISLES, PB				escription, etc.)		
A4. Building Use (e.g., Reside	ntial, Non-Residential, A	ddition	i, Accessory, etc.)	RESIDENTIAL		
A5. Latitude/Longitude: Lat.	27.935052	Long.	82.837210	Horizontal Datum:	□ NAD	1927 X NAD 1983
A6. Attach at least 2 photogra	phs of the building if the	Certifi	cate is being used to	o obtain flood insura	100.	
A7. Building Diagram Number	7					
A8. For a building with a crawl	space or enclosure(s):	N/A				
a) Square footage of craw	rispace or enclosure(s)	N	I/A sq ft			
b) Number of permanent t	lood openings in the cra	wispac	po or enclosure(s) w	ithin 1.0 foot above a	idjacent gn	ade N/A
c) Total net area of flood of	penings in A8.b N/A		sq in			
d) Engineered flood openi	ngs? 🗌 Yes 🗓 No	3				
A9. For a building with an attac	hed garage:					
a) Square footage of attac	hed garage1,250	1	sq ft			
b) Number of permanent t	lood openings in the attr	ached (garage within 1.0 fo	ot ebove adjacent gr	ade	8
c) Total net area of flood of	penings in A9.b 1,6	500	eq in			
d) Engineered flood openi	ngs? 🔯 Yes 🗀 No	0				
S	ECTION B - FLOOD IN	SURA	NCE RATE MAP	(FIRM) INFORMAT	ION	
B1. NFIP Community Name & CITY OF BELLEAIR BEACH 1	Community Number 25089		B2. County Name PINELLAS		· · ·	B3. State Florida
B4. Map/Panel B5. Suffix Number 12103C0112 G	Date	E	IRM Panel fiective/ evised Date	B8. Flood Zone(s)	(Zor	e Flood Elevation(s) ne AO, use Base ad Depth)
12103C0112 G	08/18/2009	09/03	/2003	AE	10.0	
B10. Indicate the source of the	Rese Floor Elevation (>EE) 4	eta or hana flood da	anth automad in Hose E	20.	
☐ FIS Profile ☑ FIRM				shar extresen to tresu t	78. 	
B11. Indicate elevation datum	used for BFE in Item 89:	: 🗆 N	GVD 1929 🔀 NA	VD 1988 📋 Othe	r/Source:	
B12. Is the building located in a	Coastal Barrier Resou	rces Sy	stem (CBRS) area	or Otherwise Protect	ed Area (C	PPA)? Tyes X No
Designation Date:		BRS	☐ OPA			
FEMA Form 086-0-33 (7/15)	Rep	olaces	all previous editions	3.		Form Page 1 of 6

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/ 206 HARRISON AVE	or Bldg. No.) or P.O. Ro	ute and Box No.	Policy Number:
		Code	Company NAIC Number
BELLEAIR BEACH FI	orida 337	'86	
SECTION C - BUILDING E	LEVATION INFORMA	TION (SURVEY R	EQUIRED)
C1. Building elevations are based on: Construct *A new Elevation Certificate will be required when		Iding Under Constru	action*
C2. Elevations - Zones A1-A30, AE, AH, A (with BFE			AE AB/A1_A30 AB/AH AB/AO
Complete Items C2.a-h below according to the bu Benchmark Utilized: AG-7508	ilding diagram specified Vertical Datum	in Item A7. In Puert	o Rico only, enter meters.
Indicate elevation datum used for the elevations in		****	
□ NGVD 1929 □ NAVD 1988 □ Other			
Datum used for building elevations must be the sai	me as that used for the I	BFE.	
a) Top of bottom floor (including basement, crawls		7.0	Check the measurement used.
	space, or enclosure moor	12 0	X feet meters
b) Top of the next higher floor			Ifeet meters
c) Bottom of the lowest horizontal structural memb	er (V Zones only)	<u>N/A</u> 7 0	X feet meters
d) Attached garage (top of slab)			✓ feet ☐ meters
c) Lowest elevation of machinery or equipment set (Describe type of equipment and location in Co	mments)	12, 3	X feet meters
Lowest adjacent (finished) grade next to building		5, 6	X feet meters
g) Highest adjacent (finished) grade next to building	ng (HAG)	<u>7. 1</u>	X feet meters
h) Lowest adjacent grade at lowest elevation of de structural support	ck or stairs, including	6.7	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 cartify that the information on this Certificate represent statement may be punishable by fine or imprisonment u	ts mv best efforts to inter	roret the data availa.	law to certify elevation information. ble. I understand that any false
Were latitude and longitude in Section A provided by a	icensed land surveyor?	⊠Yes □No	Check here if attachments.
Certifier's Name	License Number		
FRANK A. JULIAN	5495		3
Title OWNER/PRESIDENT			
Company Name			2 Place 114/19
FRANK A. JULIAN SURVEYING, INC			Seal 8
Address 6438 POLK ST			Here
City	State	ZIP Code	100000000000000000000000000000000000000
NEW PORT RICHEY	Florida	34653	4.84
Signature	Date 08/14/2019	Telephone (727) 845-0389	
Copy at pages of this Elevation Certificate and all attachm	ents for (1) community of	ficial, (2) insurance a	gent/company, and (3) building owner.
Commenta (including type of equipment and location, pe	er C2(e), if applicable)		- Paris Addinanti anti Communicati di Addina anti anti ingli combinati primpi Chia in papira paris anti primpi paris di Addina anti ingli paris di Addina an
C2 (a) RAISED A/C LOFT A9) Engineered Flood Opening- Model FloodVENT # 15	40-520- 15 3/4"x7 3/4"-	Coverage = 200 sq.	ft per
SEE ATTACHED ICC ES REPORT			

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

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

IMPORTANT: In these spaces, copy t			FOR INSURANCE COMPANY USE
Building Street Address (including Apt. 206 HARRISON AVE	Unit, Suite, and/or Bidg. No.)	or P.O. Route and Box No.	Policy Number:
City BELLEAIR BEACH	State Florida	ZIP Code 33786	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.



Photo One Caption FRONT VIEW 08/06/2019



Photo Two Caption REAR VIEW 08/06/2019

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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

			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bidg. No.) or P.O. Route and Box No. 206 HARRISON AVE			Policy Number:
City BELLEAIR BEACH	State Florida	ZiP Code 33786	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 One Caption RIGHT VIEW 08/06/2019



Photo Two

Photo Two Caption LEFT VIEW 08/06/2019



Most Widely Accepted and Trusted

ICC-ES Evaluation Report

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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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ICC-ES Evaluation Report

ESR-2074

Reissued February 2019

This report is subject to renewal February 2021.

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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:

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:

- 2016, 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)[†]

¹The 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.

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.



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 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 l/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

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	1MODEL	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 = m^2

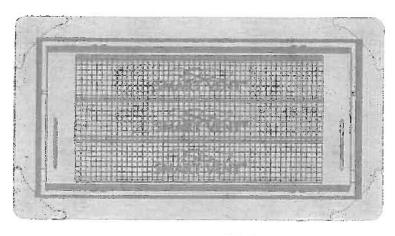


FIGURE 1—SMART VENT: MODEL 1540-510

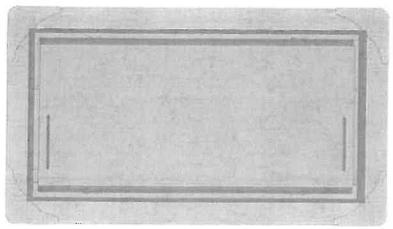


FIGURE 2-SMART VENT MODEL 1549-520

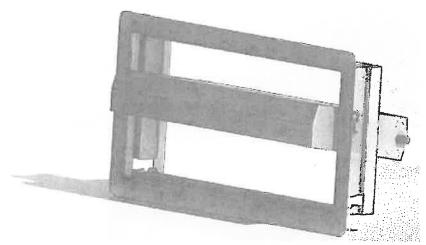


FIGURE 3-SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

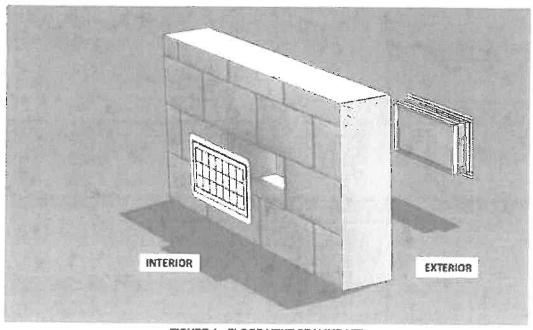


FIGURE 4-FLOOD VENT SEALING KIT



ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

Reissued February 2019

This report is subject to renewal February 2021.

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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:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

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





ICC-ES Evaluation Report

ESR-2074 FBC Supplement

Reissued February 2019

This report is subject to renewal February 2021.

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A Subsidiary of the International Code Council®

DIVISION: 68 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 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 2019.

