Form Page 4 of 6	Replaces all previous editions.	FEMA Form 086-0-33 (7/15)
Check here if attachments.		
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	location, per C2(e), if applicable)	Comments (including type of equipment and location, per C2(e), if applicable)
	Date	Signature
	Telephone	Community Name
		Local Official's Name
feet meters Datum		610 Community's design flood elevation.
feet meters Datum		G9. BFE or (in Zone AO) depth of flooding at the building site:
☐ feet ☐ meters Datum		G8. Elevation of as-built lowest floor (including basement) of the building:
	New Construction Substantial Improvement	G7. This permit has been issued for:
G6. Date Certificate of Compliance/Occupancy Issued	G5. Date Permit Issued	G4. Permit Number 18-126853 B1
jement purposes.	The following information (Items G4–G10) is provided for community floodplain management purposes	G3. The following information (Items G4
EMA-issued or community-issued BFE)	A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.	G2. A community official completed Second Control or Zone AO.
d and sealed by a licensed surveyor, e the source and date of the elevation	The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, 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.)	G1. The information in Section C was ta engineer, or architect who is author data in the Comments area below.)
management ordinance can complete sign below. Check the measurement	The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.	The local official who is authorized by law or ordinance to a Sections A, B, C (or E), and G of this Elevation Certificate. used in Items G8–G10. In Puerto Rico only, enter meters.
L)	SECTION G - COMMUNITY INFORMATION (OPTIONAL)	SECT
Company NAIC Number	State ZIP Code Florida 34242	City Sarasota
Policy Number:	Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 4940 Peaceable Way	Building Street Address (including Apt., Unit. 4940 Peaceable Way
FOR INSURANCE COMPANY USE	responding information from Section A.	MDORTANT: In these spaces conv the corresponding information from Section A.
OMB No. 1660-0008		

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U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency	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 a	agent/company, and (3) building owner.
SECTION A – PROPERTY INFORMATION	
A1. Building Owner's Name Theresa and Pat Dorsey	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.	Company NAIC Number.
ble way	ZIP Code
Sarasota	34242
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 12, Harmony Subdivision, Section Two	
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential	
A5. Latitude/Longitude: Lat. N 27.280751 Long. W82.564013 Horizontal Datum:	m: 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 1B	
A8. For a building with a crawlspace or enclosure(s):	
a) Square footage of crawlspace or enclosure(s) sq ft	
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent gra	e adjacent grade
c) Total net area of flood openings in A8.bsq in	
d) Engineered flood openings?	
A9. For a building with an attached garage:	
a) Square footage of attached garage 568 sq ft	
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade	grade 3
c) Total net area of flood openings in A9.b 600 sq in	
d) Engineered flood openings? 🛛 Yes 🗌 No	
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION	ATION
B1. NFIP Community Name & Community Number B2. County Name Sarasota County 125144 Sarasota	B3. State Florida
B4. Map/Panel B5. Suffix B6. FIRM Index B7. FIRM Panel B8. Flood Zone(s) Number Date Effective/ Effective/ Effective/	 B9. Base Flood Elevation(s) (Zone AO, use Base
12115C0139 F 11/04/2016 11/04/2016 AE	10 Flood Depth)
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:	n B9:
B11. Indicate elevation datum used for BFE in Item B9: 🗌 NGVD 1929 🖾 NAVD 1988 🔲 O	Other/Source:
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (O	ected Area (OPA)? 🔲 Yes 🔀 No
Designation Date:	
FEMA Form 086-0-33 (7/15) Replaces all previous editions	
Form U80-U-33 (7/13) Rebiaces all brevious	Earm Dane 1 of 6

Form Page 1 of 6

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.O. Route and Box No. Policy Number. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. Policy Number. 4940 Peaceable Way State ZIP Code City State ZIP Code Sarasota Florida 34242 Section C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) C1. Building elevations are based on: C1. Building elevations are based on: Construction Drawings* Building Under Construction* X Finished Construction	Box No.
e corresponding information from Section A. Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. State ZIP Code Florida 34242 - BUILDING ELEVATION INFORMATION (SURVEY RE	Box No.
Box No.	Box No.

FEMA Form 086-0-33 (7/15)

Replaces all previous editions.

Form Page 3 of 6	Replaces all previous editions.	Replaces all	FEMA Form 086-0-33 (7/15)
			9
			Comments
Telephone	Date		Signature
State ZIP Code	City		Address
Zone A (without a FEMA-issued or porrect to the best of my knowledge.	iletes Sections A, B, and E for Z is in Sections A, B, and E are c	The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best Property Owner or Owner's Authorized Representative's Name	The property owner or owner community-issued BFE) or Zo Property Owner or Owner's A
com floor elevated in accordance with the community's The local official must certify this information in Section G.	of the bottom floor elevated in a nknown. The local official mus	Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Vinknown. The local official must certify this information in Section	E5. Zone AO only: If no flood floodplain management o
ters above or below the HAG.	feet meters	lab) is	 E3. Attached garage (top of slab) is E4. Top of platform of machinery and/or equipment servicing the building is
(see pages 1-2	· ☐ feet ☐ meters	For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 the next higher floor (elevation C2.b in the diagrams) of the building is	E2. For Building Diagrams 6–9 with perma the next higher floor (elevation C2.b in the diagrams) of the building is
her the elevation is above or below ters	propriate boxes to show whether le (LAG).	 Provide elevation information for the following and check the appropriate boxes to show whether the elevation is the highest adjacent grade (HAG) and the lowest adjacent grade (LAG). a) Top of bottom floor (including basement, crawlspace, or enclosure) is b) Top of bottom floor (including basement, crawlspace, or enclosure) is 	 E1. Provide elevation information for the followin the highest adjacent grade (HAG) and the loa) Top of bottom floor (including basement, crawlspace, or enclosure) is b) Top of bottom floor (including basement, crawlspace, or enclosure) is
t a LOMA or LOMR-F request, rement used. In Puerto Rico only,	ONE A (WITHOUT BFE) ertificate is intended to support if available. Check the measur	FOR ZONE AO AND ZONE A (WITHOUT BFE) For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B,and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.	For Zones AO and A (without complete Sections A, B, and C enter meters.
Company NAIC Number	State ZIP Code Florida 34242	State Florida	City Sarasota SECT
) or P.O. Route and Box No.	IMPORTANT: 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. 4940 Peaceable Way	IMPORTANT: In these spaces Building Street Address (incluc 4940 Peaceable Way
OMB No. 1660-0008 Expiration Date: November 30, 2018		ATE	ELEVATION CERTIFICATE





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 to any finding or other matter in this report, or as to any product covered by the report. Copyright [©] 2019 ICC Evaluation Service, LLC. All rights reserved.	"2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence" A Subsidiary of	SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS # <mark>1540-520;</mark> #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514 FLOOD VENT SEALING KIT #1540-526	EVALUATION SUBJECT:	REPORT HOLDER: SMART VENT PRODUCTS, INC.	DIVISION: 08 00 00-OPENINGS SECTION: 08 95 43-VENTS/FOUNDATION FLOOD VENTS	ICC-ES (800) 423-6587 (562) 699-0543 www.icc-es.org This report is subject to renewal 02/2021.	REALUATION Most Widely Accepted and Trusted
AUGRENTED ROOTECT 1705 Product Creditionality Body	y of the council	40-574;)74 ^{)2/2019} 2/2021.	rusted

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ICC-ES Evaluation Report

ESR-2074

This report is subject to renewal February 2021. Reissued February 2019

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

REPORT HOLDER:

SMART VENT PRODUCTS, INC

EVALUATION SUBJECT:

VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514 FLOOD VENT SEALING KIT #1540-526 SMART VENT® AUTOMATIC FOUNDATION FLOOD

1.0 **EVALUATION SCOPE**

Compliance with the following codes:

- 2018 Code® 2015, 2012, 2009 and 2006 International Building (IBC)
- 2018, 2018, 2015, 2012, 2018, 2015, 2012, 2018, 2015, 2012, 2009 and 2006 International
- 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 operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to natural ventilation. rising or falling flood waters. Smart Vent® units are Certain models also allow engineered mechanically

3.0 DESCRIPTION

ω 1 General:

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

> Stacking various models and sizes as described in Table 1. The SmartVENT® Stacking Model #1540-511 and FloodVENT® vertically arranged openings per unit. Automatic Each unit is fabricated from stainless steel. Smart Vent® Model Foundation #1540-521 units Flood Vents each are contain available Кo 5

3.2 **Engineered Opening:**

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. 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 IRC)] for a maximum rate of rise and fall of 5.0 feet per 2.7.2.2 and Section 2.7.3 of ASCE/SEI 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and

ω. ω Ventilation:

The ventilation. Ξ Model #1540-511 consists of two Model #1540-510 units yielding 51 square inches (32 903 mm²) of net free area to supply natural ventilation. The SmartVENT[®] Stacking Overhead Door Model #1540-514 both have screen covers with ¹/₄-inch-by-¹/₄-inch (6.35 by 6.35 mm) openings, Other FVs recognized in this report do not offer natural (65 806 mm²) of net free area to supply natural ventilation. one assembly, SmartVENT® Model #1540-510 and and provides 102 square SmartVENT® Stacking Inches

3.4 Flood Vent Sealing Kit:

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. The Flood Vent Sealing Kit Model #1540-526 is used with SmartVENT® Model #1540-520. It is a Homasote 440

4.0 DESIGN AND INSTALLATION

44 SmartVENT[®] and FloodVENT[®]:

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: construction from the exterior side. vents must be in accordance with instructions, the applicable code SmartVENT[®] Installation clips allow mounting in masonry and installed into walls and or overhead doors FloodVENT[®] are and the manufacturer's Installation of existing or new designed this concrete of. report. ថ the be

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 200 square

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SmartVENT® o FloodVENT® 400 square feet (37.2 m²) of enclosed area. installed with Stacking Model #1540-Stacking Model #1540-521 h a minimum of one FV of enclosed area, Stacking Model #1540-511 except for must that every and the be

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

4.2 Flood Vent Sealing Kit

lineal foot (18.56 l/min per lineal meter) at a pressure differential of 1 pound per square foot (50 Pa) based on The Flood Vent Sealing Kit Model 1540-526 is used in conjunction with FloodVENT® Model #1540-520. When Vent Sealing Kit. leakage rate of less than 0.2 cubic feet per minute per 12.58 lineal feet (3.8 lineal meters) contained by the Flood FV and Flood Vent Sealing installed and tested in accordance with ASTM E283, the Kit assembly have an air

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:

<u>сл</u> The Smart Vent[®] FVs must be installed in accordance a conflict, the instructions in this report govern with this report, the applicable code and the manufacturer's installation instructions. In the event of

> 5.2 walls in other areas. are permitted for use in conjunction with breakaway The Smart Vent[®] FVs must not be used in the place of "breakaway walls" in coastal high hazard areas, but

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accur Criteria for Mech ԴԴՔ4), dated October 2017). accordance with the ICC-ES Mechanically August y Operated 2015 (edito (editorially Flood Acceptance revised Vents
- 6.2 Test report on air infiltration in accordance with ASTM F283

7.0 IDENTIFICATION

- 7.1 The Smart VENT[®] models and the Flood Vent Sealing report number (ESR-2074). Products, Inc.), the model number, and the evaluation label bearing the manufacturer's name (Smartvent Kit recognized in this report must be identified by a
- 7.2 The following: report holder's contact information <u>.</u> the

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

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	$15^{3}/_{4}^{n} \times 7^{3}/_{4}^{n}$	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
Vood Wall FloodVENT® Overhead Door	1540-574	14" X 8 ³ /4"	200
SmartVENT [®] Stacker	1540-511	16" X 16"	400

TABLE 1-MODEL SIZES

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

FloodVent[®] Stacker

1540-521

16" X 16"

400

≶

1	1
5	
1	
1	1

FIGURE 1—SMART VENT: MODEL 1540-510

FIGURE 4—FLOOD VENT SEALING KIT



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



FIGURE 2-SMART VENT MODEL 1540-520



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ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

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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-FLOOD VENT SEALING KIT #1540-526 570; #1540-574; #1540-524; #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 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

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CC-ES Evaluation Report

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ESR-2074 FBC Supplement

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

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

ESR-2074, comply with the *Florida Building Code*—*Building* and the FRC, provided the design and installation are accordance with the 2015 *International Building Code*® provisions noted in the master report. The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report Ξ.

Hurricane Zone provisions of the Florida Building Code-Use of the Smart Vent® Automatic Foundation Flood Vents has also been found to be in compliance with the High-Velocity -Building and the Florida Building Code -Residential .

the Commission). 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 For products falling under Florida Rule 9N-3, verification that the report holder's quality assurance program is audited by a

This supplement expires concurrently with the master report, reissued February 2019

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