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

OMB No. 1660-0008 Expiration Date: November 30, 2022

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.

A1. Building Owner's Name ANTHONY AND ROXANNE MARTERIE A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg, No.) or P.O. Route and Box No. Company NAIC Number: City City State Florida B2. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) LOT 40 SLEEPY LAGOON PARK, PID#7857500008 A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) LOT 40 SLEEPY LAGOON PARK, PID#7857500008 A5. Latitude/Longitude: Lat. 27. 429836 Long. (-)82.675674 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 7 A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s): b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 10 c) Total net area of flood openings in A8 b 2000.00 sq in d) Engineered flood openings? Yes No A9. For a building with an attached garage: a) Square footage of attached garage 3 Square footage of attached garage b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 5 c) Total net area of flood openings in A9 b 1000.00 sq in d) Engineered flood openings? Yes No SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number SARASOTA B4. Map/Panel R5. Suffix B6. FIRM Index Date Reflectived Date R64000 AE R64000 A	SECTION A - PROPERT	Y INFOR	MATION		F	OR INSURAN	CE COMPANY USE
Box No. Coty De NARVAEZ DRIVE City State Florida 34228 A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) LOT 40 SLEEPY LAGOON PARK, PID#7857500008 A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL A5. Latitude/Longitude: Lat 27.429836 Long. (-)82.675674 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 7 A8. For a building with a crawlspace or enclosure(s) 1986.00 sq ft b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 10 c) Total net area of flood openings in A8.b 2000.00 sq in d) Engineered flood openings? Yes No A9 For a building with an attached garage: a) Square footage of attached garage 506.00 sq ft b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 5 c) Total net area of flood openings in the attached garage within 1.0 foot above adjacent grade 5 c) Total net area of flood openings in the attached garage within 1.0 foot above adjacent grade 5 c) Total net area of flood openings in the attached garage within 1.0 foot above adjacent grade 5 c) Total net area of flood openings in B9. 1000.00 sq in d) Engineered flood openings? Yes No SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number SARASOTA B4. Map/Panel B5. Suffix B6. FIRM Index Date Revised Date SARASOTA B4. Map/Panel B5. Suffix B6. FIRM Index Revised Date Revised					P	olicy Number:	2
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A8. For a building with a crawIspace or enclosure(s): a) Square footage of crawIspace or enclosure(s) b) Number of permanent flood openings in the crawIspace or enclosure(s) within 1.0 foot above adjacent grade 10 c) Total net area of flood openings?	A6. Attach at least 2 photographs of the building if t	he Certific	ate is being u	sed to obtair	n flood insuranc	ce.	
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d) Engineered flood openings? \[\text{Yes} \times \] No A9. For a building with an attached garage: a) Square footage of attached garage \[\frac{506.00}{506.00} \] sq ft b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 5 c) Total net area of flood openings in A9.b \[\frac{1000.00}{1000.00} \] sq in d) Engineered flood openings? \[\text{Yes} \] No \[\text{SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION} \] B1. NFIP Community Name & Community Number TOWN OF LONGBOAT KEY, FLORIDA 125126 \[\text{B2. County Name} \] S2. County Name SARASOTA \[\text{SARASOTA} \[\text{Florida} \] B4. Map/Panel Number \[\text{B5. Suffix} \] B6. FIRM Index Date \[\text{Date} \] Date \[\text{Effective/} \) Revised Date \[\text{O3-006(s)} \] (Zone AO, use Base Flood Depth) \[B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:	b) Number of permanent flood openings in the o	crawlspac	e or enclosure	e(s) within 1.0) foot above ac	ljacent grade	10
A9. For a building with an attached garage: a) Square footage of attached garage	c) Total net area of flood openings in A8.b	2	2000.00 sq in	r.			
a) Square footage of attached garage	d) Engineered flood openings? ☐ Yes ☒	No					
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Number Date Effective/ Revised Date 08-10-2021 AE 8 B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:	TOWN OF LONGBOAT KEY, FLORIDA 125126		SARASOTA			FIG	orida
12081C0291 F 08-10-2021 08-10-2021 AE 8 B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:		Effe	ective/				
	12081C0291 F 08-10-2021			AE	8		
	B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:						
B11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929 区 NAVD 1988 ☐ Other/Source:	B11. Indicate elevation datum used for BFE in Item	B9: 🗌 N	GVD 1929 [X NAVD 19	88 D Other	/Source:	
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? \(\subseteq \) Yes \(\subseteq \) No							
✓ Designation Date: □ CBRS □ OPA IUL 2 2 7077					IUL 2	2 2072	
Scarred to associate Town of LongBoat KEY	Sannad to Tambeila					ONGROAT	KEY

FEMA Form 086-0-33 (12/19)

Replaces all previous editions.

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2022

				FOR INSURANCE COMPANY USE		
600 DE NARVAEZ DRIVE			Policy N	Policy Number:		
City Stat TOWN OF LONGBOAT KEY Flori		Code 28	Compan	y NAIC N	Number	
SECTION C – BUILDING ELE	EVATION INFORMAT	ION (SURVEY RE	QUIRED))		
C1. Building elevations are based on: Construction *A new Elevation Certificate will be required when concept to the suild be required when concept to the suild be required to the build be benchmark Utilized: NGS DATAPOINT #V689 Indicate elevation datum used for the elevations in its concept to the suild be benchmark Utilized: NGS DATAPOINT #V689 Indicate elevation datum used for the elevations in its concept to the suilding elevations must be the same and the suilding elevations must be the same and the suilding elevations must be the same and the suilding elevation of the lowest horizontal structural member do and the lowest horizontal structural member do and the suilding elevation of machinery or equipment served (Describe type of equipment and location in Community of the lowest adjacent (finished) grade next to building good Highest adjacent grade at lowest elevation of decident elevations are based on the suilding good elevation of decident elevation el	onstruction of the building VE, V1–V30, V (with Billing diagram specified in which were as through his below ace, or enclosure floor) or (V Zones only) oricing the building ments) (LAG) (HAG)	FE), AR, AR/A, AR/ n Item A7. In Puerto NAVD 1988 w.	Chec 10.2 [N/A [5.6 [9.8 [3.9 [1–A30, A		
structural support	ENCINEED OF ARC	THE CT OF DELE				
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No Check here if attachments.						
Certifier's Name JAMES B. AMBERGER Title PRESIDENT Company Name JIM AMBERGER LAND SURVEYING LLC Address 1055 S. TAMIAMI TRAIL, SUITE 110-B City SARASOTA Signature James B Amberger Amberger Date: 2022.07.16 11:51:13 -04'00' Copy all pages of this Elevation Certificate and all attachment Comments (including type of equipment and location, per C2e: AIR CONDITIONING COMPRESSOR LOCATED ON A9(a/d): SMART VENT MODEL 1540-510. THESE VENT 200 SQUARE FEET EACH.	C2(e), if applicable) N NORTH SIDE OF RE	(941) 955-6333 ficial, (2) insurance a	agent/com	pany, and		

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2022

MP	ORTANT: In these spaces, copy the correspondi	ng information from S	ection A.	FOR INSURANCE COMPANY USE		
	lding Street Address (including Apt., Unit, Suite, and/) DE NARVAEZ DRIVE	or Bldg. No.) or P.O. Ro	oute and Box No.	Policy Number:		
City	y S	tate ZI	P Code	Company NAIC Number		
TO	WN OF LONGBOAT KEY F	lorida 34	228			
	SECTION E – BUILDING ELE FOR ZONE	EVATION INFORMATI AO AND ZONE A (W		REQUIRED)		
con	Zones AO and A (without BFE), complete Items E1- nplete Sections A, B,and C. For Items E1–E4, use na er meters.					
E1.	E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG). a) Top of bottom floor (including basement,					
	crawlspace, or enclosure) is		_	rs above or below the HAG.		
	 Top of bottom floor (including basement, crawlspace, or enclosure) is 		feet _ mete	rs above or below the LAG.		
E2.	For Building Diagrams 6–9 with permanent flood op the next higher floor (elevation C2.b in	penings provided in Sec	tion A Items 8 and/or	9 (see pages 1–2 of Instructions),		
	the diagrams) of the building is		feet mete	rs above or below the HAG.		
E3.	Attached garage (top of slab) is		feet mete	rs above or below the HAG.		
E4.	Top of platform of machinery and/or equipment servicing the building is		feet mete	rs above or below the HAG.		
E5.	Zone AO only: If no flood depth number is available floodplain management ordinance? Yes	e, is the top of the bottor No Unknown. The	m floor elevated in ac he local official must	cordance with the community's certify this information in Section G.		
	SECTION F - PROPERTY OWN	ER (OR OWNER'S RE	PRESENTATIVE) CI	ERTIFICATION		
The	e property owner or owner's authorized representative nmunity-issued BFE) or Zone AO must sign here. The	e who completes Section e statements in Section	ons A, B, and E for Zo s A, B, and E are cor	one A (without a FEMA-issued or rect to the best of my knowledge.		
Pro	perty Owner or Owner's Authorized Representative's	Name				
Add	dress	City	St	ate ZIP Code		
Sig	nature	Date	Te	elephone		
Cor	mments					
				N .		
				×		
				Check here if attachments.		

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corre	esponding information	n from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, St 600 DE NARVAEZ DRIVE	uite, and/or Bldg. No.) o	or P.O. Route and Box No.	Policy Number:
City TOWN OF LONGBOAT KEY	State Florida	ZIP Code 34228	Company NAIC Number
SECTIO	ON G - COMMUNITY IN	NFORMATION (OPTIONAL	-)
The local official who is authorized by law or or Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, en	Certificate. Complete the	ne community's floodplain r he applicable item(s) and s	nanagement ordinance can complete ign below. Check the measurement
G1. The information in Section C was tak engineer, or architect who is authoriz data in the Comments area below.)	en from other documen ed by law to certify elev	tation that has been signed ration information. (Indicate	and sealed by a licensed surveyor, the source and date of the elevation
G2. A community official completed Secti or Zone AO.	on E for a building locat	ted in Zone A (without a FE	MA-issued or community-issued BFE)
G3. The following information (Items G4–	G10) is provided for cor	mmunity floodplain manage	ement purposes.
G4. Permit Number	G5. Date Permit Issue	ed G6	Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:] New Construction [Substantial Improvement	
G8. Elevation of as-built lowest floor (including of the building:	j basement)	fe	eet meters Datum
G9. BFE or (in Zone AO) depth of flooding at t	he building site:	fe	eet meters Datum
G10. Community's design flood elevation:			eet meters Datum
Local Official's Name		Title	
Community Name		Telephone	
Signature		Date	
Comments (including type of equipment and loc	ation, per C2(e), if appl	icable)	-
			Check here if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the co	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit,	Policy Number:		
600 DE NARVAEZ DRIVE			
City	State	ZIP Code	Company NAIC Number
TOWN OF LONGBOAT KEY	Florida	34228	

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.

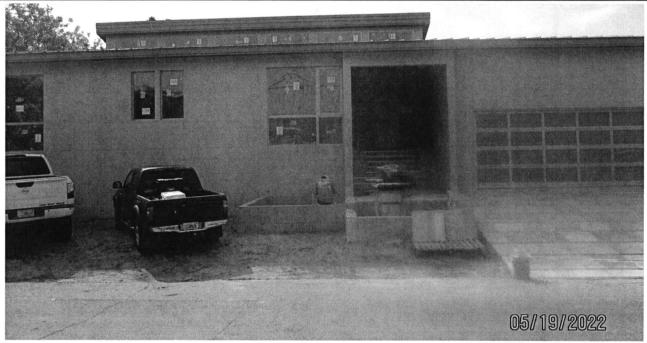


Photo One

Photo One Caption FRONT VIEW

Clear Photo One



Photo Two

Photo Two Caption REAR VIEW

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2022

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. 600 DE NARVAEZ DRIVE			Policy Number:	
City TOWN OF LONGBOAT KEY	1 6	State Florida	ZIP Code 34228	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 Three Caption FLOW-THRU VENT LOCATED ON EAST SIDE OF RESIDENCE

Clear Photo Three



Photo Four Caption FLOW-THRU VENT LOCATED ON SOUTH SIDE OF RESIDENCE

Clear Photo Four



Most Widely Accepted and Trusted

ICC-ES Evaluation Report

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

ESR-2074

Reissued 02/2021 Revised 04/2021 This report is subject to renewal 02/2023.

DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

CODY OF RECORD

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

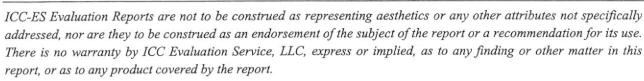
EVALUATION SUBJECT:

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"









ESR-2074

Reissued February 2021 Revised April 2021

This report is subject to renewal February 2023.

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:

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:

- 2021, 2018, 2015, 2012, 2009 and 2006 International Building Code[®] (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 International Residential Code[®] (IRC)
- 2021, 2018 International Energy Conservation Code[®] (IECC)
- 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 described 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.

- 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.
- 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 February 2021).
- **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 described 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 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 = m^2



FIGURE 1-SMART VENT: MODEL 1540-510

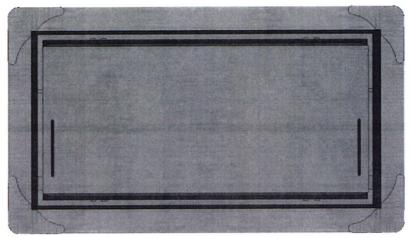


FIGURE 2—SMART VENT MODEL 1540-520



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

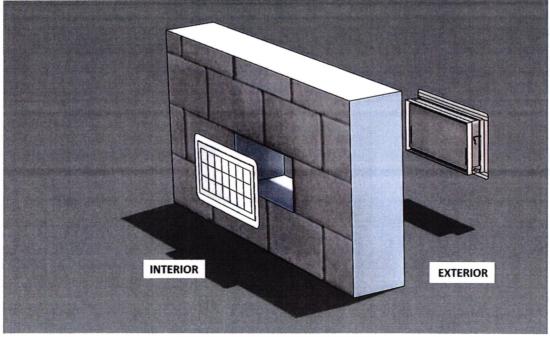


FIGURE 4—FLOOD VENT SEALING KIT



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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 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, described in ICC-ES evaluation report ESR-2074, have also been evaluated for compliance with codes noted below.

Applicable code editions:

■ 2019 California Building Code (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

■ 2019 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 evaluation report ESR-2074, comply with 2019 CBC Chapter 12, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 12 and 16, as applicable.

2.1.1 OSHPD:

The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

2.1.2 DSA

The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with the 2019 CRC, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report.





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A Subsidiary of the International Code Council®

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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, described in ICC-ES evaluation report ESR-2074, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2020 Florida Building Code—Building
- 2020 Florida Building Code—Residential

2.0 CONCLUSIONS

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with the *Florida Building Code—Building* and the *Florida Building Code-Residential*, provided the design requirements are determined in accordance with the *Florida Building Code-Building* or the *Florida Building Code-Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-2074 for 2018 *International Building Code*® meet the requirements of the *Florida Building Code-Building* or the *Florida Building Code-Residential*, as applicable.

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 61G20-3, 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).



BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 600 DE NARVAEZ DRIVE			o. Policy Number:
City TOWN OF LONGBOAT KEY	State Florida	ZIP Code 34228	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 Three Caption FLOW-THRU VENT LOCATED ON EAST SIDE OF RESIDENCE

Clear Photo Three



Photo Four Caption FLOW-THRU VENT LOCATED ON SOUTH SIDE OF RESIDENCE

Clear Photo Four





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ESR-2074

Reissued 02/2021 Revised 04/2021 This report is subject to renewa<u>l 02/2023.</u>

DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

Copy of Record

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



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ESR-2074

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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:

- 2021, 2018, 2015, 2012, 2009 and 2006 International Building Code® (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 International Residential Code[®] (IRC)
- 2021, 2018 International Energy Conservation Code[®] (IECC)
- 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 described 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.



- 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.
- 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 February 2021).
- 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 described 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 1-MODEL SIZES

MODEL NAME	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
FloodVENT®	1540-520	$15^3/_4$ " $\times 7^3/_4$ "	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

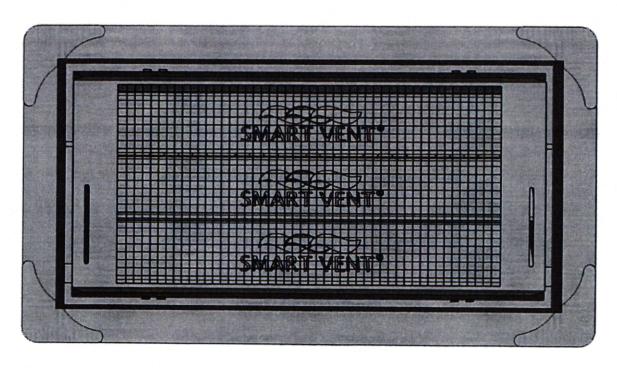


FIGURE 1-SMART VENT: MODEL 1540-510

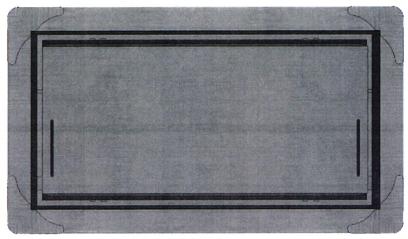


FIGURE 2—SMART VENT MODEL 1540-520



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

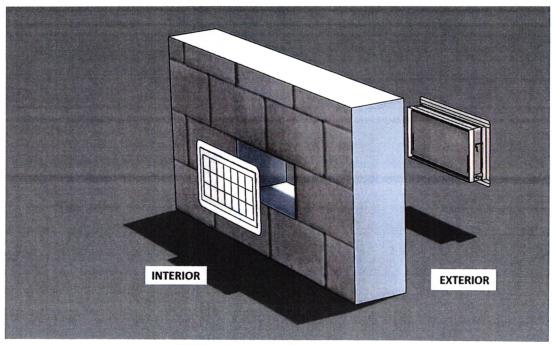


FIGURE 4—FLOOD VENT SEALING KIT



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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; #1540-570; #1540-574; #1540-524; #1540-524 (#1540-526) #1540-526 #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, described in ICC-ES evaluation report ESR-2074, have also been evaluated for compliance with codes noted below.

Applicable code editions:

■ 2019 California Building Code (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

■ 2019 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 evaluation report ESR-2074, comply with 2019 CBC Chapter 12, provided the design and installation are in accordance with the 2018 International Building Code® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 12 and 16, as applicable.

2.1.1 OSHPD:

The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

2.1.2 DSA

The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with the 2019 CRC, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report.





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DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

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SMART VENT PRODUCTS, INC.

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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

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2.0 CONCLUSIONS

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074. comply with the Florida Building Code—Building and the Florida Building Code-Residential, provided the design requirements are determined in accordance with the Florida Building Code-Building or the Florida Building Code-Residential, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-2074 for 2018 International Building Code® meet the requirements of the Florida Building Code-Building or the Florida Building Code-Residential, as applicable.

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 61G20-3, 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).

