## U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency

OMB Control No. 1660-0008 Expiration Date: 06/30/2026

National Flood Insurance Program

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

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: FREDERICK & ELIZABETH MERIZON	Policy Number:						
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 590 JESSMYTH DRIVE	Company NAIC Number:						
City: TOWN OF LONGBOAT KEY State: FL	ZIP Code: <u>34228</u>						
A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Num LOT 7, BLOCK D, LONGBOAT KEY ESTATES, PID#0002060004	nber:						
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): RESIDENTIAL							
A5. Latitude/Longitude: Lat. 27.387633 Long. (-)82.637179 Horizontal Datum: NAD 1927 NAD 1983 WGS 84							
A6. Attach at least two and when possible four clear photographs (one for each side) of the building	(see Form pages 7 and 8).						
A7. Building Diagram Number:1B	RECEIVED						
A8. For a building with a crawlspace or enclosure(s):	AUG OB asses						
a) Square footage of crawlspace or enclosure(s): N/A sq. ft.	AUG 0 9 2023						
b) Is there at least one permanent flood opening on two different sides of each enclosed area?	Yes landing Zoll NA Building						
c) Enter number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot a Non-engineered flood openings: N/A Engineered flood openings: N/A	above adjacent grade:						
d) Total net open area of non-engineered flood openings in A8.c: N/A sq. in.							
e) Total rated area of engineered flood openings in A8.c (attach documentation - see Instructio	ns): <u>N/A</u> sq. ft.						
f) Sum of A8.d and A8.e rated area (if applicable – see Instructions): N/A sq. ft.							
A9. For a building with an attached garage:							
a) Square footage of attached garage: 712.00 sq. ft.							
b) Is there at least one permanent flood opening on two different sides of the attached garage?	∑Yes □ No □ N/A						
c) Enter number of permanent flood openings in the attached garage within 1.0 foot above adja Non-engineered flood openings:	cent grade:						
d) Total net open area of non-engineered flood openings in A9.c: sq. in.							
e) Total rated area of engineered flood openings in A9.c (attach documentation - see Instructio	ns):1,000.00 sq. ft.						
f) Sum of A9.d and A9.e rated area (if applicable – see Instructions):1,000.00 sq. ft.							
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFOR	MATION						
B1.a. NFIP Community Name: TOWN OF LONGBOAT KEY  B1.b. NFIP Community Iden	ntification Number: 125126						
B2. County Name: SARASOTA B3. State: FL B4. Map/Panel No.: 1	2115C0019 B5. Suffix: F						
B6. FIRM Index Date: 11/04/2016 B7. FIRM Panel Effective/Revised Date: 11/04/201	16						
B8. Flood Zone(s): AE B9. Base Flood Elevation(s) (BFE) (Zone AO, use B	ase Flood Depth): 10						
B10. Indicate the source of the BFE data or Base Flood Depth entered in Item B9:  ☐ FIS ☐ FIRM ☐ Community Determined ☐ Other:							
B11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/S	Source:						
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Prote Designation Date:	cted Area (OPA)? Yes No						
B13. Is the building located seaward of the Limit of Moderate Wave Action (LiMWA)? Yes X	No						

**IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19** 

	FOR INSURANCE COMPANY USE							
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 590 JESSMYTH DRIVE	Policy Number:							
City: TOWN OF LONGBOAT KEY State: FL ZIP Code: 34228	Company NAIC Number:							
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)								
C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction *A new Elevation Certificate will be required when construction of the building is complete.								
C2. Elevations – Zones A1–A30, AE, AH, AO, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO, A99. Complete Items C2.a–h below according to the Building Diagram specified in Item A7. In Puerto Rico only, enter meters.  Benchmark Utilized: NGS DATAPOINT #Y769 Vertical Datum: NAVD 1988								
Indicate elevation datum used for the elevations in items a) through h) below.								
Datum used for building elevations must be the same as that used for the BFE. Conversion for the Section D Comments area.	factor used? Yes No  Check the measurement used:							
a) Top of bottom floor (including basement, crawlspace, or enclosure floor):	11.10  feet  meters							
b) Top of the next higher floor (see Instructions):	22.1 🛛 feet 🗌 meters							
c) Bottom of the lowest horizontal structural member (see Instructions):	N/A Seet meters							
d) Attached garage (top of slab):	5.0 🛛 feet 🗌 meters							
<ul> <li>e) Lowest elevation of Machinery and Equipment (M&amp;E) servicing the building (describe type of M&amp;E and location in Section D Comments area):</li> </ul>	11.1 ⊠ feet ☐ meters							
f) Lowest Adjacent Grade (LAG) next to building: Natural X Finished	3.0 🛛 feet 🦳 meters							
g) Highest Adjacent Grade (HAG) next to building: Natural X Finished	5.0  feet  meters							
h) Finished LAG at lowest elevation of attached deck or stairs, including structural								
support:	3.0 🛮 feet 🗌 meters							
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT	CERTIFICATION							
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by state 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 and describe in the Comments area.	AUG 0 9 2023							
Certifier's Name: JAMES B AMBERGER  License Number: PSM 6333  Title: PRESIDENT								
Title: PRESIDENT	ENSE NUMBER OF MILITIAN							
Company Name: JIM AMBERGER LAND SURVEYING, LLC	6333							
Address: 1055 S. TAMIAMI TRAIL SUITE 110-B								
City: SARASOTA State: FL ZIP Code: 3423	STATE OF STATE OF FLORIDA							
James B Amberger Signature:  Digitally signed by James B Amberger Date: 2023.07.31 15:51:38-04'00' Date: 07/31/20	6333 STATE OF FLORIDA Place Seal Here							
Telephone: (941) 955-6333 Ext.: Email: bergertime@verizon.net	Place Seal Here							
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insu								
Comments (including source of conversion factor in C2; type of equipment and location per C2.e; and description of any attachments): C2a/c2f: THE DIFFERENCE BETWEEN THESE TWO ELEVATIONS IS DUE TO THIS BEING BACKFILLED STEMWALL CONSTRUCTION.								

**IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19** 

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:	FOR INSURANCE COMPANY USE							
590 JESSMYTH DRIVE	Policy Number:							
City: TOWN OF LONGBOAT KEY State: FL ZIP Code: 34228	Company NAIC Number:							
FOR ZONE AO, ZONE AR/AO, AND ZONE A (WITHOUT	SECTION E – BUILDING MEASUREMENT INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO, ZONE AR/AO, AND ZONE A (WITHOUT BFE)							
For Zones AO, AR/AO, and A (without BFE), complete Items E1–E5. For Items E1–E4, use natural intended to support a Letter of Map Change request, complete Sections A, B, and C. Check the meaniter meters.								
Building measurements are based on: Construction Drawings* Building Under Construction *A new Elevation Certificate will be required when construction of the building is complete.	n*							
E1. Provide measurements (C.2.a in applicable Building Diagram) for the following and check the a measurement is above or below the natural HAG and the LAG.	ppropriate boxes to show whether the							
a) Top of bottom floor (including basement, crawlspace, or enclosure) is:	above or below the HAG.							
b) Top of bottom floor (including basement, crawlspace, or enclosure) is:	above or below the LAG.							
E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or next higher floor (C2.b in applicable Building Diagram) of the building is:	9 (see pages 1–2 of Instructions), the							
E3. Attached garage (top of slab) is:	above or below the HAG.							
E4. Top of platform of machinery and/or equipment servicing the building is:	above or below the HAG.							
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in ac floodplain management ordinance?   Yes No Unknown The local official mu	ecordance with the community's st certify this information in Section G.							
SECTION F – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENT	TATIVE) CERTIFICATION							
The property owner or owner's authorized representative who completes Sections A, B, and E for Zo sign here. The statements in Sections A, B, and E are correct to the best of my knowledge	one A (without BFE) or Zone AO must							
Check here if attachments and describe in the Comments area.								
Property Owner or Owner's Authorized Representative Name:								
Address:								
City: State:	ZIP Code:							
Signature: Date:	_							
Telephone:         Ext.:          Email:								
Comments:								

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TOWN OF LONGBOAT KEY
Planning, Zoning & Building

#### **IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19**

Buildir	ng Street Address (including Apt., Unit, Suite, a	nd/or Bld	g. No.) o	r P.O. Route and Bo	x No.:	FOR INS	URANCE COMPANY USE	
						Policy Nur	Policy Number:	
City:	TOWN OF LONGBOAT KEY	State: _	FL	ZIP Code: <u>34228</u>	3	Company	NAIC Number:	
	SECTION G - COMMUNITY INFORMA	ATION (	RECOM	MENDED FOR C	OMMUN	ITY OFFICIA	AL COMPLETION)	
	cal official who is authorized by law or ordinand A, B, C, E, G, or H of this Elevation Certific						rdinance can complete	
G1.	The information in Section C was taken engineer, or architect who is authorized elevation data in the Comments area by	d by state						
G2.a.	A local official completed Section E for E5 is completed for a building located in			d in Zone A (without	a BFE), Z	one AO, or Zo	one AR/AO, or when item	
G2.b.	☐ A local official completed Section H for	insuranc	e purpos	ses.				
G3.	☐ In the Comments area of Section G, th	e local of	ficial des	scribes specific corre	ections to t	the information	n in Sections A, B, E and H.	
G4.	☐ The following information (Items G5–G	11) is pro	vided fo	r community floodpl	ain manag	ement purpos	es.	
G5.	Permit Number:	G6.	Date Pe	ermit Issued:				
G7.	Date Certificate of Compliance/Occupancy	Issued:						
G8.	This permit has been issued for:	Construc	tion 🗌	Substantial Improv	ement			
G9.a.	Elevation of as-built lowest floor (including building:	basemen	it) of the		feet	meters	Datum:	
G9.b.	Elevation of bottom of as-built lowest horizemember:	ontal stru	ctural		feet	meters	Datum:	
G10.a	. BFE (or depth in Zone AO) of flooding at th	e building	g site:		feet	meters	Datum:	
G10.b	Community's minimum elevation (or depth requirement for the lowest floor or lowest h member:			al	☐ feet	☐ meters	Datum:	
G11.	Variance issued? ☐ Yes ☐ No If ye	es. attach	docume	entation and describ	. —	_		
The lo	cal official who provides information in Secti t to the best of my knowledge. If applicable,	on G mus	st sign he	ere. I have complete	ed the infor	mation in Sec	tion G and certify that it is	
Local	Official's Name:			Title:				
	Community Name:							
Teleph								
Addre	ss:							
						ZIP C	ode:	
Signat	ure:			Date:				
	ents (including type of equipment and locations A, B, D, E, or H):	on, per C	2.e; desc	cription of any attacl	nments; ar		to specific information in	

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TOWN OF LONGBOAT KEY
Planning, Zoning & Building

**IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19** 

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box 590 JESSMYTH DRIVE				ox No.:	FOR IN	SURANCE COMPANY USE
					Policy No	umber:
City: TOWN OF LONGBOAT KEY	State: _	FL	_ ZIP Code: <u>3422</u>	8	Compan	y NAIC Number:
SECTION H – BU (SURVE		THE RESERVE OF THE PARTY OF THE	R HEIGHT INFO			ZONES
The property owner, owner's authorized to determine the building's first floor heignearest tenth of a foot (nearest tenth of <i>Instructions</i> ) and the appropriate Building	ght for insurance pu a meter in Puerto F	urposes. Rico). <i>Re</i>	Sections A, B, and ference the Found	l must als <b>lation Ty</b>	o be complete pe <i>Diagrams</i>	ed. Enter heights to the (at the end of Section H
H1. Provide the height of the top of the	floor (as indicated	in Found	ation Type Diagran	ns) above	the Lowest A	djacent Grade (LAG):
<ul> <li>a) For Building Diagrams 1A, 1B floor (include above-grade floors on subgrade crawlspaces or enclosure</li> </ul>	ly for buildings with			☐ feet	meters	above the LAG
<ul> <li>b) For Building Diagrams 2A, 2B higher floor (i.e., the floor above base enclosure floor) is:</li> </ul>				feet	meters	above the LAG
H2. Is <b>all</b> Machinery and Equipment set H2 arrow (shown in the Foundation ☐ Yes ☐ No						
SECTION I - PROPERTY	OWNER (OR OV	WNER'S	AUTHORIZED F	REPRESI	ENTATIVE)	CERTIFICATION
The property owner or owner's authorized A, B, and H are correct to the best of my indicate in Item G2.b and sign Section G. Check here if attachments are provided in the property of the pro	knowledge. <b>Note:</b> 6.	: If the lo	cal floodplain mana	gement of	fficial complete	ed Section H, they should
Property Owner or Owner's Authorized I	Representative Nar	me:				
Address:						
City:				State:	ZIP	Code:
Signature:			Date:			
Telephone:	Ext.: Email	:				
Comments:						
					Na C	EIVED
					AUG	0 9 2023
				7	OWN OF L	ONGBOAT KEY

## IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19 **BUILDING PHOTOGRAPHS**

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 590 JESSMYTH DRIVE

FOR INSURANCE COMPANY USE

Policy Number:

Company NAIC Number: \_\_\_\_\_

City: TOWN OF LONGBOAT KEY State: FL ZIP Code: 34228

Instructions: Insert below at least two and when possible four photographs showing each side of the building (for example, may only be able to take front and back pictures of townhouses/rowhouses). Identify all photographs with the date taken and "Front View," "Rear View," "Right Side View," or "Left Side View." Photographs must show the foundation. When flood openings are present, include at least one close-up photograph of representative flood openings or vents, as indicated in Sections A8 and A9.



Photo One Caption: FRONT VIEW (NORTH SIDE)

Clear Photo One



Photo Two Caption: REAR VIEW (SOUTH SIDE)

Clear Photo Two

# IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19 BUILDING PHOTOGRAPHS

**Continuation Page** 

Building Street Address (including Apt., Unit, S	uite, and/or Blo	dg. No.) d	or P.O. Route and Box No.:	FOR INSURANCE COMPANY USE
590 JESSMYTH DRIVE City: TOWN OF LONGBOAT KEY	State:_	FL	ZIP Code: <u>34228</u>	Policy Number:  Company NAIC Number:

Insert the third and fourth photographs below. Identify all photographs with the date taken and "Front View," "Rear View," "Right Side View," or "Left Side View." When flood openings are present, include at least one close-up photograph of representative flood openings or vents, as indicated in Sections A8 and A9.



CODY OF RECORD

Photo Three Caption: SIDE VIEW (WEST SIDE)

Clear Photo Three



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TOWN OF LONGBOAT KE Planning, Zoning & Building

Photo Four Caption: TYPICAL FLOW-THRU VENTS

Clear Photo Four



# **ICC-ES Evaluation Report**

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**ESR-2074** 

Reissued 02/2023 This report is subject to renewal 02/2025.

**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



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# ICC-ES Evaluation Report ESR-2074

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<sup>®</sup> (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 International Residential Code<sup>®</sup> (IRC)
- 2021 and 2018 International Energy Conservation Code<sup>®</sup> (IECC)
- 2013 Abu Dhabi International Building Code (ADIBC)<sup>†</sup>

 $^{\dagger}\text{The ADIBC}$  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

Reissued February 2023

This report is subject to renewal February 2025.

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:

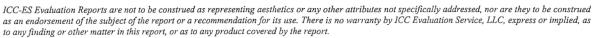
The Flood Vent Sealing Kit Model #1540-526 is used with SmartVENT® Model #1540-520. It is a Homasote 440 Sound Barrier® (ESR-1374) insert with 21 – 2-inch-by-2-inch (51 mm x 51 mm) squares cut in it. See Figure 4.

#### 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.
19 MANTUA ROAD
MOUNT ROYAL, NEW JERSEY 08061
(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 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200	
SmartVENT®	1540-510	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200	
FloodVENT® Overhead Door	1540-524	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200	
SmartVENT® Overhead Door	1540-514	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200	
Wood Wall FloodVENT®	1540-570	14" X 8 <sup>3</sup> / <sub>4</sub> "	200	
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 8 <sup>3</sup> / <sub>4</sub> "	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

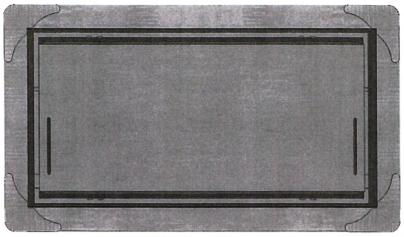


FIGURE 2—SMART VENT MODEL 1540-520

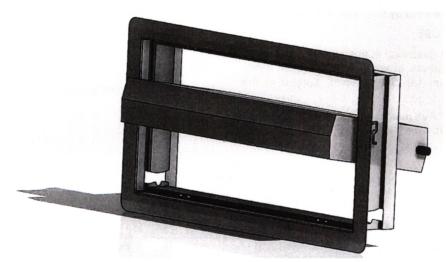


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

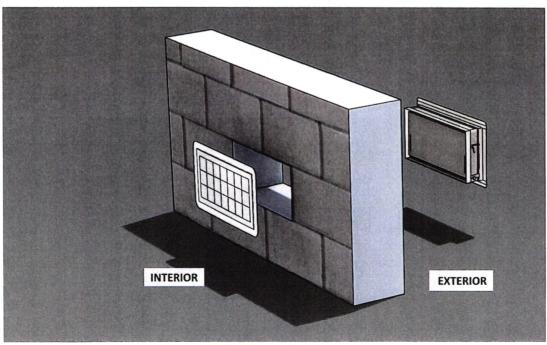


FIGURE 4—FLOOD VENT SEALING KIT



#### 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; #1540-570; #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) AKA: California Department of Health Care Access and Information (HCAI) and the 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.

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

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.

This supplement expires concurrently with the evaluation report, reissued February 2023.





## **ICC-ES Evaluation Report**

#### **ESR-2074 FBC Supplement**

Reissued February 2023

This report is subject to renewal February 2025.

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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; #1540-514
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).

This supplement expires concurrently with the evaluation report, reissued February 2023.

