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

## **ELEVATION CERTIFICATE AND INSTRUCTIONS**

### PAPERWORK REDUCTION ACT NOTICE

Public reporting burden for this data collection is estimated to average 3.75 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and submitting this form. You are not required to respond to this collection of information unless a valid OMB control number is displayed on this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing the burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 500 C Street SW, Washington, DC 20742, Paperwork Reduction Project (1660-0008). **NOTE: Do not send your completed form to this address.** 

### **PRIVACY ACT STATEMENT**

Authority: Title 44 CFR § 61.7 and 61.8.

**Principal Purpose(s):** This information is being collected for the primary purpose of documenting compliance with National Flood Insurance Program (NFIP) floodplain management ordinances for new or substantially improved structures in designated Special Flood Hazard Areas. This form may also be used as an optional tool for a Letter of Map Amendment (LOMA), Conditional LOMA (CLOMA), Letter of Map Revision Based on Fill (LOMR-F), or Conditional LOMR-F (CLOMR-F), or for flood insurance rating purposes in any flood zone.

**Routine Use(s):** The information on this form may be disclosed as generally permitted under 5 U.S.C. § 552a(b) of the Privacy Act of 1974, as amended. This includes using this information as necessary and authorized by the routine uses published in DHS/ FEMA-003 – *National Flood Insurance Program Files System of Records Notice* 79 Fed. Reg. 28747 (May 19, 2014) and upon written request, written consent, by agreement, or as required by law.

**Disclosure:** The disclosure of information on this form is voluntary; however, failure to provide the information requested may impact the flood insurance premium through the NFIP. Information will only be released as permitted by law.

### PURPOSE OF THE ELEVATION CERTIFICATE

The Elevation Certificate is an important administrative tool of the NFIP. It can be used to provide elevation information necessary to ensure compliance with community floodplain management ordinances, to inform the proper insurance premium, and to support a request for a LOMA, CLOMA, LOMR-F, or CLOMR-F.

The Elevation Certificate is used to document floodplain management compliance for Post-Flood Insurance Rate Map (FIRM) buildings, which are buildings constructed after publication of the FIRM, located in flood Zones A1–A30, AE, AH, AO, A (with Base Flood Elevation (BFE)), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO, and A99. It may also be used to provide elevation information for Pre-FIRM buildings or buildings in any flood zone.

As part of the agreement for making flood insurance available in a community, the NFIP requires the community to adopt floodplain management regulations that specify minimum requirements for reducing flood losses. One such requirement is for the community to obtain the elevation of the lowest floor (including basement) of all new and substantially improved buildings, and maintain a record of such information. The Elevation Certificate provides a way for a community to document compliance with the community's floodplain management ordinance.

Use of this certificate does not provide a waiver of the flood insurance purchase requirement. Only a LOMA or LOMR-F from the Federal Emergency Management Agency (FEMA) can amend the FIRM and remove the federal mandate for a lending institution to require the purchase of flood insurance. However, the lending institution has the option of requiring flood insurance even if a LOMA/LOMR-F has been issued by FEMA. The Elevation Certificate may be used to support a LOMA, CLOMA, LOMR-F, or CLOMR-F request. Lowest Adjacent Grade (LAG) elevations certified by a land surveyor, engineer, or architect, as authorized by state law, will be required if the certificate is used to support a LOMA, CLOMA, LOMR-F, or CLOMR-F, or CLOMR-F

This certificate is used only to certify building elevations. A separate certificate is required for floodproofing. Under the NFIP, non-residential buildings can be floodproofed up to or above the BFE. A floodproofed building is a building that has been designed and constructed to be watertight (substantially impermeable to floodwaters) below the BFE. Floodproofing of residential buildings is not permitted under the NFIP unless FEMA has granted the community an exception for residential floodproofed basements. The community must adopt standards for design and construction of floodproofed basements before FEMA will grant a basement exception. For both floodproofed non-residential buildings and residential floodproofed basements in communities that have been granted an exception by FEMA, a floodproofing certificate is required.

The expiration date on the form herein does not apply to certified and completed Elevation Certificates, as a completed Elevation Certificate does not expire, unless there is a physical change to the building that invalidates information in Section A Items A8 or A9, Section C, Section E, or Section H. In addition, this form is intended for the specific building referenced in Section A and is not invalidated by the transfer of building ownership.

Additional guidance can be found in FEMA Publication 467-1, Floodplain Management Bulletin: Elevation Certificate.

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

### ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 1-11

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance a	
SECTION A – PROPERTY INFORMATION	FOR INSURANCE COMPANY USE
A1. Building Owner's Name: JOHN STEVEN KEMPTON	Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 7249 PINE NEEDLE ROAD	Company NAIC Number:
City: SARASOTA State: FL 2	ZIP Code: 34242
A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Num PART OF LOT 4, SIESTA PROPERTIES INC. UNIT NO. 2	nber:
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): RESIDENTIA	L
A5. Latitude/Longitude: Lat. 27°14'39.21"N Long. 82°31'50.58"W Horizontal Datum: 🗌 N	AD 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: <u>1B</u>	
A8. For a building with a crawlspace or enclosure(s):	
a) Square footage of crawlspace or enclosure(s): <u>NA</u> sq. ft.	
b) Is there at least one permanent flood opening on two different sides of each enclosed area?	Yes No N/A
c) Enter number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot a Non-engineered flood openings: <u>NA</u> Engineered flood openings: <u>NA</u>	above adjacent grade:
d) Total net open area of non-engineered flood openings in A8.c: <u>NA</u> sq. in.	
e) Total rated area of engineered flood openings in A8.c (attach documentation – see Instructio	ons): NA sq. ft.
f) Sum of A8.d and A8.e rated area (if applicable – see Instructions): <u>NA</u> sq. ft.	
A9. For a building with an attached garage:	
a) Square footage of attached garage: <u>904</u> sq. ft.	
b) Is there at least one permanent flood opening on two different sides of the attached garage?	Yes No N/A
<ul> <li>c) Enter number of permanent flood openings in the attached garage within 1.0 foot above adja Non-engineered flood openings: <u>NA</u> Engineered flood openings: <u>4</u></li> </ul>	icent grade:
d) Total net open area of non-engineered flood openings in A9.c: <u>NA</u> sq. in.	
e) Total rated area of engineered flood openings in A9.c (attach documentation – see Instructio	ons): <u>800</u> sq. ft.
f) Sum of A9.d and A9.e rated area (if applicable – see Instructions): 800 sq. ft.	
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFOR	RMATION
B1.a. NFIP Community Name: SARASOTA COUNTY B1.b. NFIP Community Ider	ntification Number: 125144
B2. County Name: SARASOTA B3. State: FL B4. Map/Panel No.:	
B6. FIRM Index Date: 03/27/2024 B7. FIRM Panel Effective/Revised Date: 03/27/2	
B8. Flood Zone(s): AE B9. Base Flood Elevation(s) (BFE) (Zone AO, use B	Base Flood Depth): 7' & 8'
B10. Indicate the source of the BFE data or Base Flood Depth entered in Item B9:	
B11. Indicate elevation datum used for BFE in Item B9: 🗌 NGVD 1929 🔳 NAVD 1988 🗌 Other/	Source:
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Prote Designation Date: N/A	ected Area (OPA)?  Yes No
B13. Is the building located seaward of the Limit of Moderate Wave Action (LiMWA)?	No

ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS	-	9-19
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box 7249 PINE NEEDLE ROAD	No.:	FOR INSURANCE COMPANY USE
City: SARASOTA State: FL ZIP Code: 34242	2	Policy Number: Company NAIC Number:
SECTION C – BUILDING ELEVATION INFORMATION	(SURVEY F	REQUIRED)
C1. Building elevations are based on: Construction Drawings* Building Under *A new Elevation Certificate will be required when construction of the building is cor		on* 🔳 Finished Construction
C2. Elevations – Zones A1–A30, AE, AH, AO, A (with BFE), VE, V1–V30, V (with BFE), A99. Complete Items C2.a–h below according to the Building Diagram specified in I Benchmark Utilized: SAR. CO. BM Vertical Datum: 88	tem A7. In P	
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. Convers If Yes, describe the source of the conversion factor in the Section D Comments area.	ion factor use	ed? Yes No Check the measurement used:
a) Top of bottom floor (including basement, crawlspace, or enclosure floor):	11.3	feet meters
b) Top of the next higher floor (see Instructions):	24.4	feet meters
c) Bottom of the lowest horizontal structural member (see Instructions):	N/A	feet meters
d) Attached garage (top of slab):	6.2	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>	11.3	feet meters
f) Lowest Adjacent Grade (LAG) next to building: 🗌 Natural 🔳 Finished	5.9	feet meters
g) Highest Adjacent Grade (HAG) next to building: 🗌 Natural 🔳 Finished	7.9	feet meters
<ul> <li>Finished LAG at lowest elevation of attached deck or stairs, including structural support:</li> </ul>	6.5	feet meters
SECTION D – SURVEYOR, ENGINEER, OR ARCHITE		FICATION
This certification is to be signed and sealed by a land surveyor, engineer, or architect au information. <i>I certify that the information on this Certificate represents my best efforts to false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section</i>	interpret the	
Were latitude and longitude in Section A provided by a licensed land surveyor?	s 🗌 No	
Check here if attachments and describe in the Comments area.		
Certifier's Name: C. DREW BRANCH License Number: LS 554	42	
Title: PROFESSIONAL SURVEYOR & MAPPER		_
Company Name: ATWELL, LLC		_
Address: 6813 SR 70 EAST		_
City: BRADENTON State: FL ZIP Code:	34203	_
· · · · · · · · · · · · · · · · · · ·	04/2025	_
Telephone: (941) 625-1165 Ext.: Email: DBRANCH@ATWELL	COM	Place Seal Here
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2)	) insurance ag	ent/company, and (3) building owner.
Comments (including source of conversion factor in C2; type of equipment and location		I description of any attachments):
LONGITUDE AND LATITUDE WERE DETERMINED THROUGH GPS OBSERVATIO EFFECTIVE FIRM MAP NUMBER 12115C0207F, AE 10, DATED 11/04/2016, DURIN REVISED A3, B1, B13, C2a, C2d, C2f and C2g 04/01/2024 DC C2.e) A/C PAD ELEVATION = 11.33' LOCATED AT SOUTHEAST CORNER OF RES SEE ATTACHED ADDITIONAL PICTURES, COMMENTS AND ICC-ES REPORT NO	IG PERMITT	ING/CONSTRUCTION.

IMPORTANT:		N CERTIFICATE	S 9-19
Building Street Address (including Apt., Unit, Suite 7249 PINE NEEDLE ROAD	e, and/or Bldg. No.)	or P.O. Route and Box No.:	FOR INSURANCE COMPANY USE
City: SARASOTA	State: FL	ZIP Code: 34242	Policy Number: Company NAIC Number:
SECTION E – BUILDING		T INFORMATION (SURVEY	
		O, AND ZONE A (WITHOUT	
For Zones AO, AR/AO, and A (without BFE), co intended to support a Letter of Map Change req enter meters.			
Building measurements are based on: Cor *A new Elevation Certificate will be required who	-		on*  Finished Construction
E1. Provide measurements (C.2.a in applicable measurement is above or below the natural			appropriate boxes to show whether the
<ul> <li>Top of bottom floor (including basement crawlspace, or enclosure) is:</li> </ul>	,	feet 📋 meters	above or below the HAG.
<ul> <li>b) Top of bottom floor (including basement crawlspace, or enclosure) is:</li> </ul>	,	feet 📋 meters	above or below the LAG.
E2. For Building Diagrams 6–9 with permanent next higher floor (C2.b in applicable	flood openings pro		
Building Diagram) of the building is: E3. Attached garage (top of slab) is:		feet meters	
E4. Top of platform of machinery and/or equipn servicing the building is:	nent		
E5. Zone AO only: If no flood depth number is a	available, is the top ⁄es	of the bottom floor elevated in a	
SECTION F – PROPERTY OWNE	ER (OR OWNER'	S AUTHORIZED REPRESEN	NTATIVE) CERTIFICATION
The property owner or owner's authorized repre sign here. The statements in Sections A, B, and			Zone A (without BFE) or Zone AO must
Check here if attachments and describe in t	he Comments area	l.	
Property Owner or Owner's Authorized Represe	entative Name:		
Address:			
City:		State:	ZIP Code:
Signature:		Date:	
Telephone: Ext.:	Email:		
Comments:			

ELEVATION CERTIFICATE
IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

Building Street Address (including Apt., Unit, S	uite, and/or Bldg. No.)	or P.O. Route and B	ox No.:	FOR INS	URANCE COMPANY USE
7249 PINE NEEDLE ROAD		0.4.0	10	Policy Nur	nber:
City: SARASOTA	State: FL	ZIP Code: 342	242	Company	NAIC Number:
SECTION G - COMMUNITY INFO	ORMATION (RECO	MMENDED FOR	COMMUN		L COMPLETION)
The local official who is authorized by law or Section A, B, C, E, G, or H of this Elevation C					rdinance can complete
G1. The information in Section C was engineer, or architect who is auth elevation data in the Comments a	orized by state law to				
G2.a. A local official completed Section E5 is completed for a building loc		ed in Zone A (withou	ut a BFE), Z	one AO, or Zo	one AR/AO, or when item
G2.b. 🗌 A local official completed Section	H for insurance purp	oses.			
G3.	G, the local official d	escribes specific cor	rections to t	he informatior	n in Sections A, B, E and H.
G4.	G5–G11) is provided	for community flood	plain manag	ement purpos	es.
G5. Permit Number:	G6. Date	Permit Issued:			
G7. Date Certificate of Compliance/Occup	ancy Issued:				
G8. This permit has been issued for:	New Construction	Substantial Impro	ovement		
G9.a. Elevation of as-built lowest floor (inclu building:	iding basement) of th	ie	feet	meters	Datum:
G9.b. Elevation of bottom of as-built lowest member:	horizontal structural		feet	meters	Datum:
G10.a. BFE (or depth in Zone AO) of flooding	g at the building site:		feet	meters	Datum:
G10.b. Community's minimum elevation (or or requirement for the lowest floor or low member:		ural	☐ feet	meters	Datum:
G11. Variance issued? 🗌 Yes 🗌 No	If yes, attach docur	mentation and descr	ibe in the Co	omments area	
The local official who provides information in correct to the best of my knowledge. If applic					
Local Official's Name:		Title:			
NFIP Community Name:					
Telephone: Ext.:	Email:				
Address:					
City:					
Signature:		Date:			
Comments (including type of equipment and Sections A, B, D, E, or H):	location, per C2.e; de	escription of any atta	ichments; ar	nd corrections	to specific information in

IMPORTAN	-	I CERTIFICATE		S 9-19	
Building Street Address (including Apt., Unit, Su 7249 PINE NEEDLE ROAD	ite, and/or Bldg. No.)	or P.O. Route and Box	No.:	FOR INSURANCE COMPAN	NY USE
City: SARASOTA	State: FL	ZIP Code: 3424	2	Policy Number: Company NAIC Number:	
SECTION H – BUILDII (SURVEY NO		OR HEIGHT INFOR OR INSURANCE P			
The property owner, owner's authorized represt to determine the building's first floor height for nearest tenth of a foot (nearest tenth of a meter <i>Instructions) and the appropriate Building</i>	insurance purposes. er in Puerto Rico). <b>Re</b>	Sections A, B, and I ference the Foundation	must also b Ition Type I	e completed. Enter heights to t Diagrams (at the end of Section	he
H1. Provide the height of the top of the floor (a	as indicated in Found	dation Type Diagrams	) above the	Lowest Adjacent Grade (LAG)	:
<ul> <li>a) For Building Diagrams 1A, 1B, 3, an floor (include above-grade floors only for l subgrade crawlspaces or enclosure floors</li> </ul>	buildings with	ו [	feet	] meters 🔲 above the LAG	
b) For Building Diagrams 2A, 2B, 4, an higher floor (i.e., the floor above basemen enclosure floor) is:		[	feet	] meters 🗌 above the LAG	
H2. Is <b>all</b> Machinery and Equipment servicing H2 arrow (shown in the Foundation Type Yes No					d by the
SECTION I – PROPERTY OWN	ER (OR OWNER'	6 AUTHORIZED RI	EPRESEN	TATIVE) CERTIFICATION	
<ul> <li>A, B, and H are correct to the best of my know indicate in Item G2.b and sign Section G.</li> <li>Check here if attachments are provided (in Property Owner or Owner's Authorized Representation Address:</li> </ul>	cluding required pho				
City:			State:	ZIP Code:	
				2.11 00000	
Signature:		Date:			
Telephone: Ext.: _	Email:				
Comments:					

## ELEVATION CERTIFICATE 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.:			FOR INSURANCE COMPANY USE
7249 PINE NEEDLE ROAD			Policy Number:
City: SARASOTA	State: FL	ZIP Code: 34242	
			Company NAIC Number:

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

Photo One Caption: FINAL - 02-03-2025 (FRONT VIEW)

<image><image><image>

Photo Two Caption: FINAL - 02-03-2025 (REAR VIEW)

Clear Photo Two

Clear Photo One

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

**Continuation Page** 

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:		FOR INSURANCE COMPANY USE		
7249 PINE NEEDLE ROAD			Deliev Number	
City: SARASOTA	State: FL	ZIP Code: 34242	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.



Photo Three

Photo Three Caption: FINAL - 02-03-2025 (LEFT & RIGHT SIDE VIEW WITH AC UNITS)

**Clear Photo Three** 

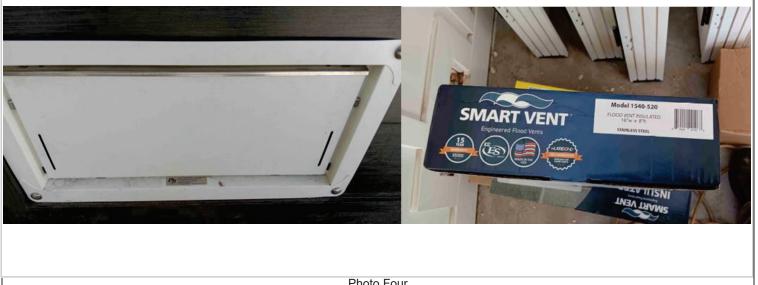


Photo Four

Photo Four Caption: FINAL - 02-03-2025 (GARAGE VENT & WALL VENTS)

Clear Photo Four

## FEMA ELEVATION CERTIFICATE

Building Address – 7249 Pine Needle Road

SECTION D -ADDITIONAL COMMENTS:

REVISED A7, A9a, A9b, A9c, A9e, A9f, B5, B6, B7, B9, C2a, C2b, C2d, C2e, C2f, C2g, C2h - 2/6/2025 JP

A8 AND A9 – ENGINEERED OPENINGS MANUFACTURED BY SMART VENT PRODUCTS INC., MODEL NUMBER 1540-520 & MODEL NUMBER 1540-524, ICC-ES REPORT NO. 2074 (ATTACHED). RATED 200 SQ. IN. PER UNIT.

NOTE: WALL VENTS BEING INSTALLED AT TIME OF SURVEY



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**ICC-ES Evaluation Report** 

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**ESR-2074** 

Reissued 02/2023 Revised 06/2024 This report is subject to renewal 02/2025.

DIVISION: 08 00 00—OPENINGS SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

**REPORT HOLDER:** 

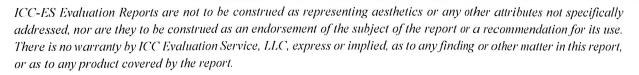
## **SMART VENT PRODUCTS, INC.**

**EVALUATION SUBJECT:** 

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



*"2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence"* 



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## ICC-ES Evaluation Report ESR-2074

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:

- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 International Building Code<sup>®</sup> (IBC)
- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 International Residential Code<sup>®</sup> (IRC)
- 2024, 2021 and 2018 International Energy Conservation Code® (IECC)
- 2013 Abu Dhabi International Building Code (ADIBC)<sup>†</sup>

 $^{\rm t}{\rm The}$  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<sup>®</sup> 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<sup>®</sup> 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



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Reissued February 2023

Revised June 2024

This report is subject to renewal February 2025.

level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent<sup>®</sup> Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT<sup>®</sup> Stacking Model #1540-511 and FloodVENT<sup>®</sup> 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<sup>®</sup> Model #1540-510 and SmartVENT<sup>®</sup> Overhead Door Model #1540-514 both have screen covers with <sup>1</sup>/<sub>4</sub>-inch-by-<sup>1</sup>/<sub>4</sub>-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 mm<sup>2</sup>) of net free area to supply natural ventilation. The SmartVENT<sup>®</sup> Stacking Model #1540-511 consists of two Model #1540-510 units in one assembly, and provides 102 square inches (65 806 mm<sup>2</sup>) 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<sup>®</sup> Model #1540-520. It is a Homasote 440 Sound Barrier<sup>®</sup> (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<sup>®</sup> and FloodVENT<sup>®</sup>:

SmartVENT<sup>®</sup> and FloodVENT<sup>®</sup> 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<sup>®</sup> FVs must be installed as follows:

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.



- 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 m<sup>2</sup>) of enclosed area, except that the SmartVENT<sup>®</sup> Stacking Model #1540-511 and FloodVENT<sup>®</sup> Stacking Model #1540-521 must be installed with a minimum of one FV for every 400 square feet (37.2 m<sup>2</sup>) 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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 2024).
- **6.2** Test report on air infiltration in accordance with ASTM E283.

#### 7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-2074) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.
- **7.2** The Smart VENT<sup>®</sup> 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).
- 7.3 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 <sup>1</sup> (ft <sup>2</sup> )		
FloodVENT®	1540-520	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200		
SmartVENT <sup>®</sup>	1540-510	15 <sup>3</sup> /4" X 7 <sup>3</sup> /4"	200		
FloodVENT <sup>®</sup> Overhead Door	1540-524	15 <sup>3</sup> /4" X 7 <sup>3</sup> /4"	200		
SmartVENT <sup>®</sup> Overhead Door	1540-514	15 <sup>3</sup> /4" X 7 <sup>3</sup> /4"	200		
Wood Wall FloodVENT®	1540-570	14" X 8 <sup>3</sup> /4"	200		
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 8 <sup>3</sup> / <sub>4</sub> "	200		
SmartVENT <sup>®</sup> Stacker	1540-511	16" X 16"	400		
FloodVent <sup>®</sup> Stacker	1540-521	16" X 16"	400		

For SI: 1 inch = 25.4 mm; 1 square foot = m<sup>2</sup>

<sup>1</sup>The coverage area in square feet for each model is equivalent to the performance of the same number of square inches of non-engineered openings.

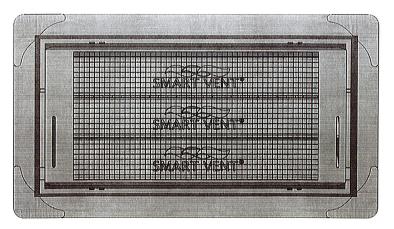


FIGURE 1-SMART VENT: MODEL 1540-510

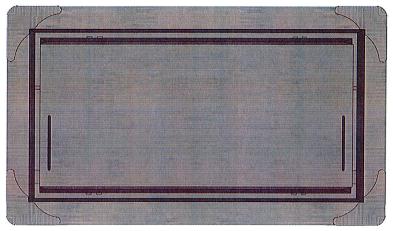


FIGURE 2-SMART VENT MODEL 1540-520

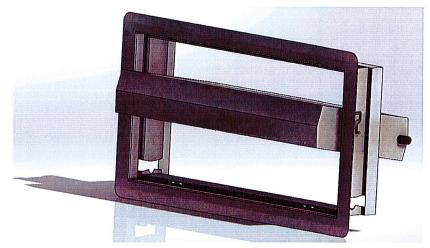


FIGURE 3-SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

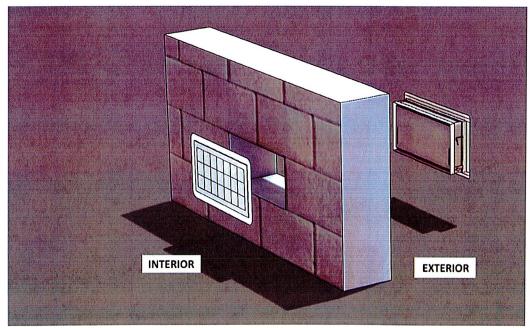


FIGURE 4-FLOOD VENT SEALING KIT



## **ICC-ES Evaluation Report**

## ESR-2074 CBC and CRC Supplement

Reissued February 2023 Revised June 2024 This report is subject to renewal February 2025.

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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<sup>®</sup> 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<sup>®</sup> 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:

■ 2022 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.

■ 2022 California Residential Code (CRC)

#### 2.0 CONCLUSIONS

#### 2.1 CBC:

The Smart Vent<sup>®</sup> Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with CBC Chapter 12, provided the design and installation are in accordance with the 2021 *International Building Code*<sup>®</sup> (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<sup>®</sup> Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with the CRC, provided the design and installation are in accordance with the 2021 *International Residential Code*<sup>®</sup> (IRC) provisions noted in the evaluation report.

This supplement expires concurrently with the evaluation report, reissued February 2023 and revised June 2024.

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.





## **ICC-ES Evaluation Report**

## **ESR-2074 FBC Supplement**

Reissued February 2023 Revised June 2024 This report is subject to renewal February 2025.

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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<sup>®</sup> 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<sup>®</sup> 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:

- 2023 Florida Building Code—Building
- 2023 Florida Building Code—Residential

#### 2.0 CONCLUSIONS

The Smart Vent<sup>®</sup> 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 must be 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 2021 *International Building Code*<sup>®</sup> meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code*. as applicable.

Use of the Smart Vent<sup>®</sup> 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 and revised June 2024.

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