# ELEVATION CERTIFICATE CHECK LIST

ADDI	(ESS:	
REV	'IEW	
$1^{ST}$	$2^{ND}$	
		CHECK THAT ADDRESS IS CORRECT ON ALL PAGES
		CHECK EXPIRATION DATE OF EC (JUNE 30, 2026 - FEMA Form FF-206-FY-22-152 (8/23)
		A2 & A3– CHECK ADDRESS/PROPERTY DESCRIPTION
		A4 – CHECK BUILDING USE
		A5 – CHECK LONGITUDE HAS NEGATIVE (-) OR W and DATUM BOX CHECKED
		A6 – CHECK FOR 4 COLOR PHOTOS (MINIMUM OF FRONT AND BACK/SIDE)
		A7 – CHECK DIAGRAM NUMBER (Crawlspace is under 5 feet ceiling height)
		A8 – CHECK DIAGRAM DEPICTS ENCLOSURE OR CRAWLSPACE
		A8a-f– NO BLANKS, MUST BE N/A BUT CAN BE 0 ON A8c or A8d
		A8f – SUM OF A8d and A8e ONLY IF BOTH ENGINEERED AND NON-ENGINEERED VENTS
		A9– CHECK ONLY IF GARAGE HAS NO LIVING SPACE ABOVE AND IS ATTACHED;
		A9a THRU A9d SIMILAR TO A8
		B1a – CHECK SARASOTA COUNTY AND B1b is the COMMUNITY NUMBER 125144
		B4 CHECK PROPER MAP 12115C/PANEL NUMBER
		B5 – CHECK PROPER SUFFIX
		B6 and B7 – CHECK PROPER FIRM PANEL EFFECTIVE/REVISED DATE
		B8 – CHECK FLOOD ZONE
		B9 – CHECK BASE FLOOD ELEVATION
		B10 – CHECK ONE BOX HAS BEEN CHECKED
		B11 – CHECK NAVD 1988
		B12 – CHECK NO BOX
		C1 – CHECK BOX IS FINISHED CONSTRUCTION
		C2 — CHECK VERTICAL DATUM (THE SOURCE MUST BE IN THE COMMENT SECTION IF CONVERSION FACTOR USED)
		C2a – CHECK TOP OF BOTTOM FLOOR CORRESPONDS TO DIAGRAM NUMBER;
		C2b – CHECK TOP OF NEXT HIGHER FLOOR AS PER DIAGRAM IF APPLICABLE; CAN'T BE LESS
		THAN 5 FEET DIFFERENCE TO C2A
	П	C2c – LOWEST HORIZONTAL STRUCTURAL MEMBER, IF APPLICABLE
		C2d – CHECK FOR TRUE ATTACHED GARAGE AND A9 HAS BEEN COMPLETED
		C2e – CHECK AT DFE OR HIGHER (MAKE SURE TYPE OF M&E AND LOCATION ARE IN SECTION D)
		C2f – CHECK FOR NUMBER & FINISHED; MUST BE LOWER THAN C2g
		C2g – CHECK FOR NUMBER & FINISHED
		C2h – CHECK IF DECK OR STAIRS PRESENT
		SECTION D – CHECK FOR CERTIFIERS NAME; LICENSE NUMBER; SIGNATURE; SURVEYOR
		SEAL; DATE; COMMENTS WITH EQUIPMENT AND LOCATION OF C2e; IFAPPLICABLE FLOOD
		VENT INFO; METHOD OR SOURCE OF A5 - LAT/LONG; DATUM CONVERSION FOR C2
		CHECK FOR FLOOD VENT DOCUMENTATION AND PICTURES ATTACHED
		CHECK TO SEE IF SECTION E AND G ARE FILLED OUT; SEE OFFICIAL CRS CHECKLIST IF APPLICABLE
		VERIFY SECTION G IS COMPLETED; G8, G11, OFFICIALS NAME, SIGNATURE & DATE

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

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

### **ELEVATION CERTIFICATE**

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

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: 5507 Calle Del Invierno LLC	Policy Number:				
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 5507 Calle Del Invierno	Company NAIC Number:				
	ZIP Code: 34242				
A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Nur LOT 34 BLK 25 SARASOTA BEACH	mber:				
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): Residential					
A5. Latitude/Longitude: Lat. N027°16'11.39" Long. W082°33'25.71" Horiz. Datum:	NAD 1927 NAD 1983 WGS 84				
A6. Attach at least two and when possible four clear color photographs (one for each side) of the bu					
A7. Building Diagram Number:6					
A8. For a building with a crawlspace or enclosure(s):					
a) Square footage of crawlspace or enclosure(s): 341 sq. ft.					
b) Is there at least one permanent flood opening on two different sides of each enclosed area?	☐ Yes ☐ No ☐ N/A				
<ul> <li>c) Enter number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot Non-engineered flood openings: N/A Engineered flood openings: 4</li> </ul>					
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 Instruction	ons):800 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:N/A sq. ft.					
b) Is there at least one permanent flood opening on two different sides of the attached garage?	P ☐ Yes ☐ No ☒ N/A				
<ul> <li>c) Enter number of permanent flood openings in the attached garage within 1.0 foot above adjation Non-engineered flood openings:N/A</li> <li>Engineered flood openings:N/A</li> </ul>					
d) Total net open area of non-engineered flood openings in A9.c: N/A sq. in.					
e) Total rated area of engineered flood openings in A9.c (attach documentation – see Instruction	ons): N/A sq. ft.				
f) Sum of A9.d and A9.e rated area (if applicable – see Instructions):N/A sq. ft.					
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFOR	RMATION				
B1.a. NFIP Community Name: SARASOTA COUNTY  B1.b. NFIP Community Name:	munity Identification Number: 125144				
B2. County Name: SARASOTA B3. State: FL B4. Map/Panel No.: 1	12115C0143 B5. Suffix: G				
B6. FIRM Index Date: 03/27/2024 B7. FIRM Panel Effective/Revised Date: 03/27/202	24				
B8. Flood Zone(s): AE B9. Base Flood Elevation(s) (BFE) (Zone AO, use E	Base 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/	/Source:				
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No Designation Date: CBRS OPA					
B13. Is the building located seaward of the Limit of Moderate Wave Action (LiMWA)?	No				

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box	FOR INSURANCE COMPANY USE						
5507 Calle Del Invierno	Policy Number:						
City: Sarasota State: FL ZIP Code: 34242	Comp	any I	NAIC N	Numb	oer:		
SECTION C - BUILDING ELEVATION INFORMATION (	SURVEY F	REQU	IRE	))			
C1. Building elevations are based on:  Construction Drawings*  Building Under *A new Elevation Certificate will be required when construction of the building is com		on* ∑	₫ Fir	nished	Cons	struction	
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 Items Benchmark Utilized: 25696 C (DP6065) Vertical Datum: NAV	em A7. In P						
Indicate elevation datum used for the elevations in items a) through h) below.  ☐ NGVD 1929 ☑ NAVD 1988 ☐ Other:							
Datum used for building elevations must be the same as that used for the BFE. Conversion If Yes, describe the source of the conversion factor in the Section D Comments area.	on factor us	ed?		Yes		No asurement use	٩.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor):		4.5	×	feet		meters	u.
b) Top of the next higher floor (see Instructions):		14.5	$\times$	feet		meters	
c) Bottom of the lowest horizontal structural member (see Instructions):		N/A		feet		meters	
d) Attached garage (top of slab):		N/A		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>		17.3	$\boxtimes$	feet		meters	
f) Lowest Adjacent Grade (LAG) next to building:   Natural  Finished		3.9	$\boxtimes$	feet		meters	
g) Highest Adjacent Grade (HAG) next to building:   Natural  Finished		4.5	$\boxtimes$	feet		meters	
<ul> <li>Finished LAG at lowest elevation of attached deck or stairs, including structural support:</li> </ul>		N/A		feet		meters	
SECTION D - SURVEYOR, ENGINEER, OR ARCHITE	CT CERTI	FICA	TION				
This certification is to be signed and sealed by a land surveyor, engineer, or architect authinformation. I certify that the information on this Certificate represents my best efforts to infalse statement may be punishable by fine or imprisonment under 18 U.S. Code, Section	nterpret the						
Were latitude and longitude in Section A provided by a licensed land surveyor? X Yes	□No						
☐ Check here if attachments and describe in the Comments area.							
Certifier's Name: Brandon Lauster License Number: LS7219				********	4444911	D.	٦
Title: President			SALES IN	NOON	R. LA	USTABLE	
Company Name: Lauster Land Survey		100	8/	Jice 77	219	ex To the	
Address: 3735 2nd Avenue North		MILE	곡			) Ser	
City: Saint Petersburg State: FL ZIP Code: 33	3713	- IIII	0185	STAT	E OF	Mobile	
Certifier's Name: Brandon Lauster  License Number: LS7219  Title: President  Company Name: Lauster Land Survey  Address: 3735 2nd Avenue North  City: Saint Petersburg  State: FL ZIP Code: 33713  Telephone: (727) 685-60457213  Email: brlauster@llsurvey.org							
Address: 3735 2nd Avenue North  City: Saint Petersburg  State: FL ZIP Code: 33713  Telephone: (727) 685-6045 7219  Email: brlauster@llsurvey.org  Place Seal Here							
Signature:		_ L					_
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) in						350	_
Comments (including source of conversion factor in C2; type of equipment and location per C2.e; and description of any attachments): Engineered openings manufactured by Smart Vent Products, Inc., model number 1540-520, ICC-ES Report No. ESR-2074 (attached). Rated 200 square inches per unit.  Electrical panel is the lowest elevation of machinery and is located inside the building.  NGS Coordinate Conversion and Transformation Tool was utilized to find the latitude and longitude (Section A5).							
The property previously lied in Zone AE, Insurance Rate Map Panel No. 12115C0143F Revised 11/04/2016.							

Building Street Address (including Apt., Unit, Su	FOR INSURANCE COMPANY USE						
5507 Calle Del Invierno			Policy Number:				
City: Sarasota	State: FL	ZIP Code: <u>34242</u>	Company NAIC Number:				
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), intended to support a Letter of Map Change renter meters.							
Building measurements are based on: C *A new Elevation Certificate will be required v			on* Finished Construction				
E1. Provide measurements (C.2.a in applical measurement is above or below the natu			appropriate boxes to show whether the				
a) Top of bottom floor (including baseme crawlspace, or enclosure) is:	ent, 	feet _ meters	above or below the HAG.				
b) Top of bottom floor (including baseme crawlspace, or enclosure) is:	ent, 	feet  meters	above or below the LAG.				
E2. For Building Diagrams 6–9 with permane next higher floor (C2.b in applicable Building Diagram) of the building is:	ent flood openings prov						
E3. Attached garage (top of slab) is:	-	feet meters	□ above or □ below the HAG. □ above or □ below the HAG.				
E4. Top of platform of machinery and/or equi servicing the building is:	pment	☐ feet ☐ meters	above or below the HAG.				
E5. Zone AO only: If no flood depth number i floodplain management ordinance?	s available, is the top of		ccordance with the community's ust certify this information in Section G.				
SECTION F - PROPERTY OWI	NER (OR OWNER'S	AUTHORIZED REPRESEN	ITATIVE) CERTIFICATION				
The property owner or owner's authorized rep sign here. The statements in Sections A, B, a	nd E are correct to the	e best of my knowledge	one A (without BFE) or Zone AO must				
Check here if attachments and describe in							
Property Owner or Owner's Authorized Repre	( - 1)						
Address:		State:	ZIP Code:				
	Email:	- Ctate.	Zii 0000.				
Signature:		Date:					
Comments:							

Duilding Street Address (including Art 11-it	Cuita and an Older No. V	as D.O. Doute and Boy No.	FOR INSURANCE COMPANY USE				
Building Street Address (including Apt., Unit, 5507 Calle Del Invierno	Policy Number:						
City: Sarasota	City: Sarasota State: FL ZIP Code: 34242						
			Company NAIC Number:				
SECTION G - COMMUNITY INF							
The local official who is authorized by law o Section A, B, C, E, G, or H of this Elevation							
	thorized by state law to		d and sealed by a licensed surveyor, ndicate the source and date of the				
G2.a. A local official completed Section E5 is completed for a building lo		ed in Zone A (without a BFE), Zo	one AO, or Zone AR/AO, or when item				
G2.b. A local official completed Section	n H for insurance purpo	oses.					
G3.	n G, the local official de	escribes specific corrections to t	he information in Sections A, B, E and H.				
G4.			ement purposes.				
G5. Permit Number: 21 16354	G6. Date P	Permit Issued: 7/19/20	022				
G7. Date Certificate of Compliance/Occi							
G8. This permit has been issued for:	New Construction	Substantial Improvement					
G9.a. Elevation of as-built lowest floor (inc	cluding basement) of the	e	meters Datum:				
G9.b. Elevation of bottom of as-built lowes member:	st horizontal structural		meters Datum:				
G10.a. BFE (or depth in Zone AO) of floodii	ng at the building site:	feet	meters Datum:				
G10.b. Community's minimum elevation (or requirement for the lowest floor or lo member:		ral ☐ feet	meters Datum:				
G11. Variance issued?   Yes No	If yes, attach docum						
The local official who provides information is correct to the best of my knowledge. If appli	icable, I have also provi	ided specific corrections in the	Comments area of this section.				
Local Official's Name:  NEIP Community Name:	unn	Title:					
NFIP Community Name:							
25							
Address:							
City:		State:	ZIP Code:				
City:							
Comments (including type of equipment and			nd corrections to specific information in				
Sections A, B, D, E, or H):							

Building Street Address (including Apt., Unit, S	Suite, and/or Bldg. No.)	or P.O. Route and Box No.:	FOR INSURANCE COMPANY USE				
5507 Calle Del Invierno			Policy Number:				
City: Sarasota	State: FL	ZIP Code: 34242	Company NAIC Number:				
SECTION H – BUILDING'S FIRST FLOOR HEIGHT INFORMATION FOR ALL ZONES (SURVEY NOT REQUIRED) (FOR INSURANCE PURPOSES ONLY)							
The property owner, owner's authorized representative, or local floodplain management official may complete Section H for all flood zones to determine the building's first floor height for insurance purposes. Sections A, B, and I must also be completed. Enter heights to the nearest tenth of a foot (nearest tenth of a meter in Puerto Rico). Reference the Foundation Type Diagrams (at the end of Section H Instructions) and the appropriate Building Diagrams (at the end of Section I Instructions) to complete this section.							
H1. Provide the height of the top of the floor	(as indicated in Found	dation Type Diagrams) above th	ne Lowest Adjacent Grade (LAG):				
a) For Building Diagrams 1A, 1B, 3, a floor (include above-grade floors only fo crawlspaces or enclosure floors) is:		n	meters above the LAG				
b) For Building Diagrams 2A, 2B, 4, a higher floor (i.e., the floor above baseme enclosure floor) is:			meters above the LAG				
H2. Is all Machinery and Equipment servicir H2 arrow (shown in the Foundation Type  Yes No							
SECTION I - PROPERTY OW	NER (OR OWNER'S	S AUTHORIZED REPRESE	NTATIVE) CERTIFICATION				
The property owner or owner's authorized re A, B, and H are correct to the best of my known indicate in Item G2.b and sign Section G.	presentative who compwledge. Note: If the lo	pletes Sections A, B, and H mu ocal floodplain management office	st sign here. <i>The statements in Sections</i> cial completed Section H, they should				
Check here if attachments are provided (	including required pho	tos) and describe each attachm	nent in the Comments area.				
Property Owner or Owner's Authorized Repr	esentative Name:						
Address							
City:		State:	ZIP Code:				
Telephone: Ext.:	Email:						
Signature:		Date:					
Comments:							
l							

# IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11 BUILDING PHOTOGRAPHS

See Instructions for Item A6.

Building Street Address (including A	FOR INSURANCE COMPANY USE			
5507 Calle Del Invierno City: Sarasota	Calle Del Invierno  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: Northwest Side 07/24/2024 Southwest Side 07/24/2024

Clear Photo One



Photo Two

Photo Two Caption: Southeast Side 07/24/2024

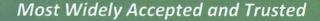
Northeast Side 07/24/2024

Clear Photo Two

# IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11 **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
5507 Calle Del Invierno		710.0 1 24242	Policy Number:
City: Sarasota	_ State: FL	_ ZIP Code: <u>34242</u>	Company NAIC Number:
Insert the third and fourth photographs below. Id View," or "Left Side View." When flood openings vents, as indicated in Sections A8 and A9.	entify all photograp are present, include	ohs with the date taken and "Fron de at least one close-up photogra	t View," "Rear View," "Right Side ph of representative flood openings or
THE BIGHT	Pho	oto Three	
Photo Three Caption: Vents 07/25/2024			Clear Photo Three
	Ph	oto Four	
Photo Four Caption:			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

#### 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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A Subsidiary of the International Code Council®

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

 $^{\dagger}$ 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

TARI	F	1	MC	חר	FI	SI	7F	S

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<sup>2</sup>

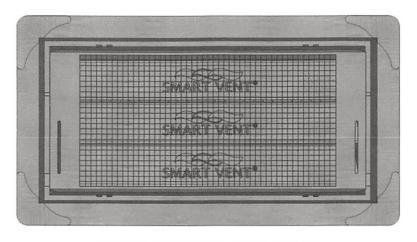


FIGURE 1—SMART VENT: MODEL 1540-510

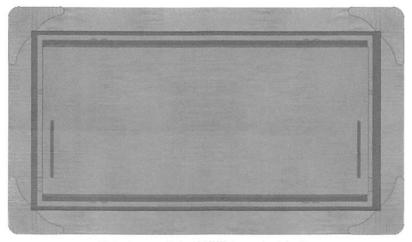


FIGURE 2—SMART VENT MODEL 1540-520

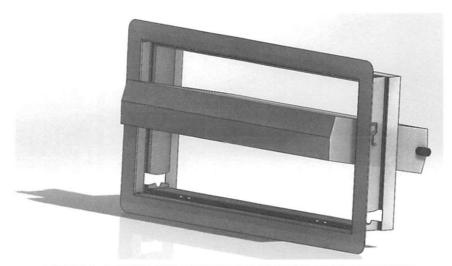


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

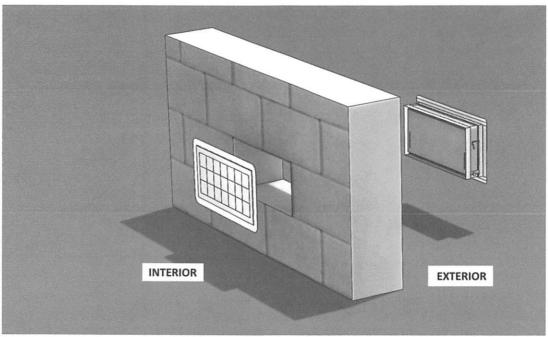


FIGURE 4—FLOOD VENT SEALING KIT



# **ICC-ES Evaluation Report**

# **ESR-2074 CBC and CRC Supplement**

Reissued February 2023

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® 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.

#### 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.

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





# **ICC-ES Evaluation Report**

# ESR-2074 FBC Supplement

Reissued February 2023

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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).

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

