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

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

RECEIVED

### **ELEVATION CERTIFICATE**

SECTION A – PROPERTY INFORMATION	BFOR INSURANCE COMPANY USE
A1. Building Owner's Name: Petrick, Anthony	Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:	
387 83rd Street	Company NAIC Number:
City: Stone Harbor State: NJ	ZIP Code: 08247
A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Numbers 83.05; Lot 144	umber:
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): Residential	
A5. Latitude/Longitude: Lat. 39.063579 Long74.755335 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 buildi	ng (see Form pages 7 and 8).
A7. Building Diagram Number:8	
A8. For a building with a crawlspace or enclosure(s):	
a) Square footage of crawlspace or enclosure(s): 1,365.00 sq. ft.	
b) Is there at least one permanent flood opening on two different sides of each enclosed area	a? ⊠ Yes ☐ No ☐ N/A
<ul> <li>c) Enter number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 for Non-engineered flood openings:</li> </ul>	
d) Total net open area of non-engineered flood openings in A8.c: 0.00 sq. in.	
e) Total rated area of engineered flood openings in A8.c (attach documentation – see Instruc	tions):1,400.00 sq. ft.
f) Sum of A8.d and A8.e rated area (if applicable – see Instructions):1,400.00 sq. ft.	
A9. For a building with an attached garage:	
a) Square footage of attached garage: sq. ft.	
b) Is there at least one permanent flood opening on two different sides of the attached garage	e? ☐ Yes ☐ No  ⊠ N/A
<ul> <li>c) Enter number of permanent flood openings in the attached garage within 1.0 foot above ac Non-engineered flood openings: Engineered flood openings:</li> </ul>	ljacent 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 Instruc	tions): sq. ft.
f) Sum of A9.d and A9.e rated area (if applicable – see Instructions): sq. ft.	
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFO	RMATION
B1.a. NFIP Community Name: Borough of Stone Harbor B1.b. NFIP Community Id	lentification Number: 345323
B2. County Name: Cape May B3. State: NJ B4. Map/Panel No.:	34009C0234 B5. Suffix: F
B6. FIRM Index Date: 10/05/2017 B7. FIRM Panel Effective/Revised Date: 10/05/2	017
B8. Flood Zone(s): AE B9. Base Flood Elevation(s) (BFE) (Zone AO, use	Base Flood Depth): 9
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	er/Source:
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Pro Designation Date:	otected Area (OPA)?
B13. Is the building located seaward of the Limit of Moderate Wave Action (LiMWA)?	I No.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.	o.: FOR	R INSURANCE COMPANY USE
387 83rd Street   City: Stone Harbor   State: NJ   ZIP Code: 08247		pany NAIC Number:
SECTION C - BUILDING ELEVATION INFORMATION (SI	JRVEY REQI	JIRED)
C1. Building elevations are based on:  Construction Drawings* Building Under Care A new Elevation Certificate will be required when construction of the building is complete.	Construction*	
C2. Elevations – Zones A1–A30, AE, AH, AO, A (with BFE), VE, V1–V30, V (with BFE), AF A99. Complete Items C2.a–h below according to the Building Diagram specified in Item Benchmark Utilized: GPS Vertical Datum: NAVD	n A7. In Puerto	E, AR/A1–A30, AR/AH, AR/AO, Rico only, enter meters.
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.	factor used?	☐ Yes ☒ No Check the measurement used:
a) Top of bottom floor (including basement, crawlspace, or enclosure floor):	6.90	feet meters
b) Top of the next higher floor (see Instructions):	12.30	☐ feet ☐ meters
c) Bottom of the lowest horizontal structural member (see Instructions):	11.00	
d) Attached garage (top of slab):		
e) Lowest elevation of Machinery and Equipment (M&E) servicing the building (describe type of M&E and location in Section D Comments area):	20.00	
f) Lowest Adjacent Grade (LAG) next to building:   Natural  Finished	6.70	
g) Highest Adjacent Grade (HAG) next to building: 🔲 Natural 🔀 Finished	6.80	
h) Finished LAG at lowest elevation of attached deck or stairs, including structural support:	6.90	
SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT	CERTIFICA	TION
This certification is to be signed and sealed by a land surveyor, engineer, or architect author information. I certify that the information on this Certificate represents my best efforts to integrals statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 10	rpret the data a	aw to certify elevation available. I understand that any
Were latitude and longitude in Section A provided by a licensed land surveyor?	No	
Check here if attachments and describe in the Comments area.		
Certifier's Name: Thomas R. Deneka License Number: 35828		
Title: PLS		
Company Name: The Hyland Group		
Address: 701 West Avenue, Suite 301		
City: Ocean City State: NJ ZIP Code: 0822	26	,
Signature: Moras Cineta Date: 11/07/20	023	
Telephone: (609) 398-4477		Place Seal Here
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) ins	urance agent/co	ompany, and (3) building owner.
Comments (including source of conversion factor in C2; type of equipment and location per C-2-E is exterior HVAC A-8-A consists of main dwelling and enclosed deck. A-8-F consists of 7 Smart Vents Model #1540-520 covering 200 sq. ft. of vent space.		ription of any attachments):

Building Street Address (including Apt., U	nit, Suite, and/or Blo	ig. No.) o	r P.O. Route	and B	ox No.:	FOR INSURA	NCE COMPANY USE
387 83rd Street			710.0.1			Policy Number	r:
City: Stone Harbor	State: _	NJ	ZIP Code:	0824	17	Company NAI	C Number:
SECTION E - BU For	LDING MEASUR 20NE AO; ZONE						ED)
For Zones AO, AR/AO, and A (without E intended to support a Letter of Map Cha enter meters.	FE), complete Item nge request, comp	ns E1–Et lete Sect	5. For Items E ions A, B, an	1–E4 d C. (	, use natural Check the mea	grade, if availab asurement used	le. If the Certificate is . In Puerto Rico only,
Building measurements are based on: *A new Elevation Certificate will be requ	Construction Dired when construc	rawings* tion of th	Building e building is	g Und	er Constructio lete.	n*	d Construction
E1. Provide measurements (C.2.a in ap measurement is above or below the	plicable Building D natural HAG and t	iagram) t he LAG.	for the followi	ng an	d check the a	ppropriate boxe	s to show whether the
<ul> <li>a) Top of bottom floor (including ba crawlspace, or enclosure) is:</li> </ul>	sement,		🗆	feet	meters	above or	below the HAG.
<ul> <li>b) Top of bottom floor (including ba crawlspace, or enclosure) is:</li> </ul>	sement,		🗆	feet	☐ meters	above or	below the LAG.
E2. For Building Diagrams 6–9 with per next higher floor (C2.b in applicable		ngs prov	ided in Secti	on A I		9 (see pages 1	
Building Diagram) of the building is:				feet	meters	above or	below the HAG.
E3. Attached garage (top of slab) is:	-		Ц	feet	∐ meters	□ above or	below the HAG.
E4. Top of platform of machinery and/or servicing the building is:	equipment			feet	meters	above or	below the HAG.
E5. Zone AO only: If no flood depth nun floodplain management ordinance?	nber is available, is	the top o					ne community's ormation in Section G.
SECTION F PROPERTY	OWNER (OR OV	VNER'S	AUTHORI	ZED.	REPRESEN	TATIVE) CER	TEICATION
The property owner or owner's authorize sign here. The statements in Sections A.	d representative w	ho comp	letes Section	s A, E	B, and E for Zo	one A (without B	FE) or Zone AO must
Check here if attachments and described			Desi Of Hig K	IOWIG	age		
Property Owner or Owner's Authorized F							
Address:	•						
City:					State:	ZIP Code:	_
Signature:		-	Date	e:			
Telephone: E	xt.: Email:						
Comments:							
							i

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:	FOR INSURANCE COMPANY USE
387 83rd Street  City: Stone Harbor State: NJ ZIP Code: 08247	Policy Number:
State. 140 ZIP Code. 00247	Company NAIC Number:
SECTION G - COMMUNITY INFORMATION (RECOMMENDED FOR COMMUNIT	Y OFFICIAL COMPLETION)
The local official who is authorized by law or ordinance to administer the community's floodplain mar Section A, B, C, E, G, or H of this Elevation Certificate. Complete the applicable item(s) and sign bel	nagement ordinance can complete low when:
G1. The information in Section C was taken from other documentation that has been signed a engineer, or architect who is authorized by state law to certify elevation information. (Indi elevation data in the Comments area below.)	and sealed by a licensed surveyor, icate the source and date of the
G2.a. A local official completed Section E for a building located in Zone A (without a BFE), Zon E5 is completed for a building located in Zone AO.	e AO, or Zone AR/AO, or when item
G2.b.   A local official completed Section H for insurance purposes.	
G3.	information in Sections A, B, E and H.
G4. The following information (Items G5–G11) is provided for community floodplain managen	nent purposes.
G5. Permit Number: G6. Date Permit Issued:	
G7. Date Certificate of Compliance/Occupancy Issued: 11 13 7-3	
G8. This permit has been issued for: New Construction Substantial Improvement	
G9.a. Elevation of as-built lowest floor (including basement) of the building:   ☐ 12.3 ☑ feet [	meters Datum: NAVD 88
GQ h Elevation of bottom of an huilt lowest harizantal attractural	
member:	meters Datum: NAVD 88  Datum: NAVD 88
G10.b. Community's minimum elevation (or depth in Zone AO) requirement for the lowest floor or lowest horizontal structural	□ meters Datum: NAVD 《8
G11. Variance issued? 🔀 Yes 🔲 No If yes, attach documentation and describe in the Com	
The local official who provides information in Section G must sign here. I have completed the information correct to the best of my knowledge. If applicable, I have also provided specific corrections in the Control of the best of my knowledge.	mments area of this section.
Local Official's Name: Raymond Poudrier Title: C.O. F.	-P.A.
NFIP Community Name: Stone Harbor	
Telephone: 609-368-6814 Ext.: Email: poudrierr@shnj.o.	rg
Address: 9508 Second Ave.	
City: Stone Horbor State: N. 7	ZIP Code: 07247
G2 1 N/h-	
Signature:	
Comments (including type of equipment and location, per C2.e; description of any attachments; and Sections A, B, D, E, or H):	
Variance 943-2022 was for Side Yard Setback + relief for Design Flood Elecation. The current D	r Lot Area Only . No
relief for Design Flood Elevation. The current D	FE in line 6-10.6.
was +2 or 1 (d) time at Permit 133 care.	
Home is in Coastal A Zone - V Zone Centifica	ite Attached.

387 83rd Street	ot., Unit, Suite,	and/or Bldg. No.)	or P.O. Route and Box	No.:	FOR IN	SURANCE COMPANY USE
City: Stone Harbor		_ State: NJ	ZIP Code: 08247			umber:y NAIC Number:
			R HEIGHT INFORM OR INSURANCE PU		OR ALL	
The property owner, owner's author to determine the building's first floor nearest tenth of a foot (nearest tent <i>Instructions</i> ) and the appropriate	r height for ins h of a meter ir	urance purposes. n Puerto Rico). <i>Re</i>	Sections A, B, and I m ference the Foundati	nust also b ion Type L	e complete Diagrams	ed. Enter heights to the (at the end of Section H
H1. Provide the height of the top of	f the floor (as i	indicated in Found	ation Type Diagrams)	above the	Lowest A	djacent Grade (LAG):
<ul> <li>a) For Building Diagrams 1A floor (include above-grade floor subgrade crawlspaces or enclo</li> </ul>	rs only for buil	dings with		feet [	] meters	above the LAG
<ul> <li>b) For Building Diagrams 2A higher floor (i.e., the floor above enclosure floor) is:</li> </ul>	., <b>2B, 4, and 6</b> e basement, c	<b>-9.</b> Top of next crawlspace, or		feet [	meters	above the LAG
H2. Is all Machinery and Equipment H2 arrow (shown in the Foundate Yes No	nt servicing the ation Type Dia	e building (as liste grams at end of S	d in Item H2 instruction ection H instructions)	ns) elevate for the app	d to or abo ropriate B	ove the floor indicated by the uilding Diagram?
SECTION I - PROPER	RTY OWNER	(OR OWNER'S	AUTHORIZED REI	PRESEN	TATIVE)	CERTIFICATION
The property owner or owner's auth A, B, and H are correct to the best of indicate in Item G2.b and sign Section	of my knowled	entative who comp ge. <b>Note:</b> If the lo	oletes Sections A, B, a cal floodplain manager	nd H must ment officia	sign here. al complete	The statements in Sections ed Section H, they should
Check here if attachments are p	rovided (includ	ding required phot	os) and describe each	attachmei	nt in the Co	omments area.
Property Owner or Owner's Authoriz	zed Represent	tative Name:				
	5 22 V 5 2					
Address:						
Address:			St	ate:	ZIP	Code:
				ate:	ZIP (	Code:
City:	Ext.:	Email:	St	ate:	ZIP ( 	Code:
City:				rate:	ZIP (	Code:
City:Signature:Telephone:				ate:	ZIP (	Code:
City:Signature:Telephone:				ate:	ZIP (	Code:
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City:Signature:Telephone:				ate:	ZIP (	Code:

# 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		
387 83rd Street  City: Stone Harbor	State:	NJ	ZIP Code: <u>08247</u>	Policy 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: Front View

Clear Photo One



Photo Two

Photo Two Caption: Left Side View

Clear Photo Two

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

**Continuation Page** 

	g Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:		
387 83rd Street City: Stone Harbor	State: NJ	ZIP Code: <u>08247</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.



**Photo Three** 

Photo Three Caption: Rear View

Clear Photo Three



Photo Four

Photo Four Caption: Right Side View or Vent

Clear Photo Four



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# **ICC-ES Evaluation Report**

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

ESR-2074

This report is subject to renewal 02/2021.

**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** 

Reissued February 2019

This report is subject to renewal February 2021.

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A Subsidiary of the International Code Council®

**DIVISION: 08 00 00—OPENINGS** 

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

**EVALUATION SUBJECT:** 

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

#### 1.0 EVALUATION SCOPE

#### Compliance with the following codes:

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

<sup>†</sup>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 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 recognized 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<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 October 2017).
- **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 recognized in this report must be identified by a label bearing the manufacturer's name (Smartvent Products, Inc.), the model number, and the evaluation report number (ESR-2074).
- 7.2 The report holder's contact information is the following:

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

TADI	E 4	BAC.		SIZES
IADL	.⊏ 1∸		UEL	SIZES

MODEL NAME	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
FloodVENT <sup>®</sup>	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> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200
FloodVENT <sup>®</sup> Overhead Door	1540-524	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200
SmartVENT <sup>®</sup> 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 <sup>®</sup> Stacker	1540-521	16" X 16"	400

For SI: 1 inch = 25.4 mm; 1 square foot =  $m^2$ 

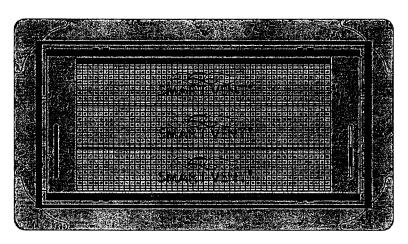


FIGURE 1—SMART VENT: MODEL 1540-510

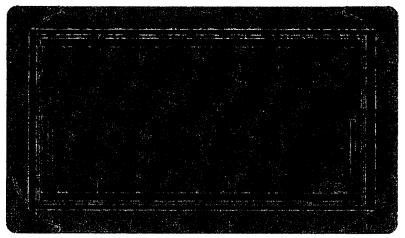


FIGURE 2—SMART VENT MODEL 1540-520

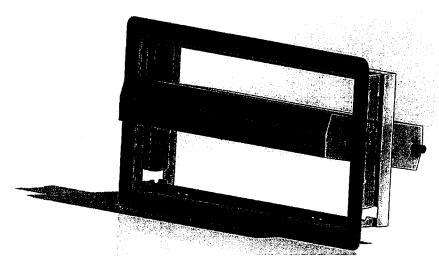


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

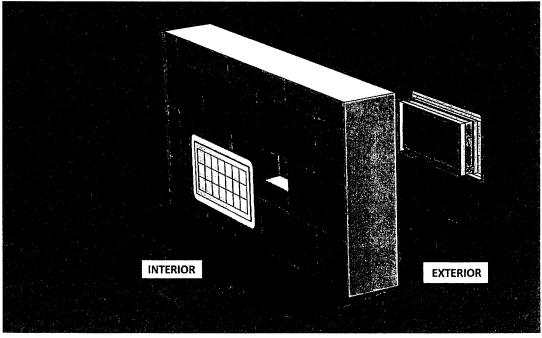


FIGURE 4—FLOOD VENT SEALING KIT



## **ICC-ES Evaluation Report**

## ESR-2074 CBC and CRC Supplement

Reissued February 2019

This report is subject to renewal February 2021.

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

#### Applicable code edition:

- 2016 California Building Code (CBC)
- 2016 California Residential Code (CRC)

#### 2.0 CONCLUSIONS

#### 2.1 CBC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with 2016 CBC Chapter 12, provided the design and installation are in accordance with the 2015 International Building Code® (IBC) provisions noted in the master report and the additional requirements of CBC Chapters 12, 16 and 16A, as applicable.

The products recognized in this supplement have not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

#### 2.2 CRC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the 2016 CRC, provided the design and installation are in accordance with the 2015 International Residential Code® (IRC) provisions noted in the master report.

The products recognized in this supplement have not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The products recognized in this supplement have not been evaluated for compliance with the International Wildland-Urban Interface Code®.

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

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# **ICC-ES Evaluation Report**

## **ESR-2074 FBC Supplement**

Reissued February 2019

This report is subject to renewal February 2021.

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

#### Applicable code editions:

- 2017 Florida Building Code—Building
- 2017 Florida Building Code—Residential

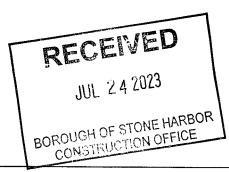
#### 2.0 CONCLUSIONS

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

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 9N-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 master report, reissued February 2019.





V ZONE DESIGN CERTIFICATE
Name Ony + Mary Petrick Policy Number (Insurance Co. Use)
Building Address or Other Description 387 8312 Street
Permit No City Stone Harbor State W Zip Code 08247
SECTION I: Flood Insurance Rate Map (FIRM) Information
Community No. 3400 9C Panel No. 0334 Suffix F FIRM Date 105/2017 FIRM Zone(s) AE9
SECTION II: Elevation Information Used for Design [NOTE: This section documents elevations used in the design – it does not substitute for an Elevation Certificate.]
1. Elevation of the Bottom of Lowest Horizontal Structural Member
** TOTAL PILE LENGTH FROM PILE LOG TO ATTAIN DESIGN STRENGTH  [NOTE. This section must be certified by a registered engineer or architect.]
I certify that: (1) I have developed or reviewed the structural design, plans, and specifications for construction and (2) that the design and methods of construction to be used are in accordance with accepted standards of practice for meeting the following provisions:
The bottom of the lowest horizontal structural member of the lowest floor (excluding piles and columns) is elevated to or above the BFE; and
<ul> <li>The pile and column foundation and structure attached thereto is anchored to resist flotation, collapse, and lateral movement due to the effects of the wind and water loads acting simultaneously on all building components. Water loading values used are those associated with the base flood. Wind loading values used are those required by the applicable State or local building code. The potential for scour and erosion at the foundation has been anticipated for conditions associated with the base flood, including wave action.</li> </ul>
SECTION IV: Breakaway Wall Design Certification Statement
[NOTE. This section must also be certified by a registered engineer or architect when breakaway walls exceed a design safe loading resistance of 20 pounds per square foot.]
I certify that (1) I have developed or reviewed the structural design, plans, and specifications for construction and (2) that the design and methods of construction to be used for the breakaway walls are in accordance with accepted standards of practice for meeting the following provisions:  Breakaway wall collapse shall result from a water load less than that which would occur during the base flood; and The elevated portion of the building and supporting foundation system shall not be subject to collapse, displacement, or other structural damage due to the effects of wind and water loads acting simultaneously on all building components (wind and water loading values to be used are defined in Section III).
SECTION V: Certification and Seal
This certification is to be signed and sealed by a registered professional engineer or architect authorized by law to certify structural designs. I certify the V Zone Design Certification Statement in Section III and the Breakaway Wall Design Certification Statement in Section IV (If applicable).
Joseph Philips  Certifier's Name  Dir. of Engineering  Joseph B. Callaghan, Inc.  Title  Company Name  1617 John F. Kennedy Blvd. Suite 1655  Philadelphia  City  State  10/31/2023  City  State  Telephone  PA 19103  CENSTRIE OF COMPANT OF COMP