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

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

## **ELEVATION CERTIFICATE**

important: Follow the instructions on pages 1-9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A - PROPERTY INFORMATION					FOR INSUR	RANCE COMPANY USE		
A1. Building Owner's Name					Policy Numb	per:		
Brandywine Developers								
<ul><li>A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.</li><li>#1 107th Street</li></ul>					Company N	AIC Number:		
City				State			ZIP Code	
Stone Harbor New Jersey					08243			
A3. Property Desc Block 107.01 Lots		and Block Numbers, Ta & 12.01	ax Parce	l Number, Le	gal Descript	ion, etc.)		
A4. Building Use (	e.g., Reside	ntial, Non-Residential,	Addition	, Accessory,	etc.) Res	idential		
A5. Latitude/Longi	tude: Lat. 3	9°02'42"	Long. 7	4°45'42"	Hor	izontal Datu	m: NAD 1	927 X NAD 1983
A6. Attach at least	2 photograp	ohs of the building if the	e Certific	cate is being u	used to obta	in flood insu	rance.	
A7. Building Diagra	am Number	6						
A8. For a building	with a crawls	space or enclosure(s):						
a) Square foo	tage of craw	dspace or enclosure(s)	·		840.00 sq	ft		
b) Number of	permanent fl	ood openings in the cr	awispace	e or enclosur	e(s) within 1	.0 foot abov	e adjacent gra	đe <u>5</u>
c) Total net ar	ea of flood o	penings in A8.b	1	1000.00 sq ir	ı			
d) Engineered	l flood openii	ngs? ⊠Yes 🗆 t	<b>V</b> o					
A9. For a building v	vith an attacl	hed garage:						
a) Square foot	age of attach	ned garage		sq ft	į			
b) Number of p	oermanent fl	ood openings in the at	tached g	arage within	1.0 foot abo	ve adjacent	grade	
c) Total net an	ea of flood o	penings in A9.b		sq	in			
d) Engineered	d) Engineered flood openings?							
	SI	ECTION B - FLOOD	INSURA	NCE RATE	MAP (FIRM	/I) INFORM	ATION	
·			B2. County	Name	B3. State			
Borough of Stone I	farbor 34532	23		Cape May				New Jersey
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	RM Panel ective/ vised Date	B8. Flood Zone(s)	B9.	Base Flood El (Zone AO, use	evation(s) Base Flood Depth)
34009C0242	F	10-05-2017	10-05-2		VE	12'		
B10. Indicate the s	ource of the	Base Flood Elevation	(BFE) da	ata or base flo	ood depth e	ntered in Ite	m B9:	
		☐ Community Deter						
B11. Indicate eleva	ation datum u	used for BFE in Item B	i9: 🔲 N	GVD 1929	NAVD 1	988 🗍 0	ther/Source: _	
B12. Is the building	j located in a	a Coastal Barrier Reso	ources Sy	/stem (CBRS	) area or Otl	herwise Prot	tected Area (O	PA)? Tyes 🔀 No
Designation Date: CBRS DPA								
				_				

## **ELEVATION CERTIFICATE**

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

IMPORTANT: In these spaces, copy the corresponding	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite, and/o #1 107th Street	Policy Number:		
City Start Stone Harbor Ne	Company NAIC Number		
SECTION C – BUILDING EI	EVATION INFOR	MATION (SURVEY RI	EQUIRED)
C1. Building elevations are based on: Constructi  *A new Elevation Certificate will be required when of the Elevations – Zones A1–A30, AE, AH, A (with BFE) Complete Items C2.a—h below according to the building Benchmark Utilized: SH-3  Indicate elevation datum used for the elevations in NGVD 1929 NAVD 1988 Other/Datum used for building elevations must be the same a) Top of bottom floor (including basement, crawls b) Top of the next higher floor  c) Bottom of the lowest horizontal structural member d) Attached garage (top of slab)  e) Lowest elevation of machinery or equipment ser (Describe type of equipment and location in Confluding Brade next to building g) Highest adjacent (finished) grade next to building	ion Drawings*  construction of the b , VE, V1–V30, V (with liding diagram specificated Data items a) through h) is source: ne as that used for the pace, or enclosure fiver (V Zones only)  rvicing the building mments) g (LAG) g (HAG)	Building Under Construuilding is complete. th BFE), AR, AR/A, AR/ fied in Item A7. In Puert tum: 1929 below. he BFE.	Action*   Finished Construction   YAE, AR/A1-A30, AR/AH, AR/AO.
<ul> <li>h) Lowest adjacent grade at lowest elevation of de structural support</li> </ul>	ck or stairs, including	g	8.8 X feet  meters
SECTION D - SURVEYOR	, ENGINEER, OR	ARCHITECT CERTIFI	CATION
This certification is to be signed and sealed by a land su I certify that the information on this Certificate represent statement may be punishable by fine or imprisonment un Were latitude and longitude in Section A provided by a li	s my best efforts to i nder 18 U.S. Code,	interpret the data availa. Section 1001.	law to certify elevation information.  ble. I understand that any false  Check here if attachments.
Certifier's Name Gary Lee Thomas Title Professional Land Surveyor Company Name	License Number 23921		- Janes Janes
Thomas*Amey*Shaw, Inc.  Address 2900 Dune Drive, Suite 8  City	State	ZIP Code	Seat D
Avalon	New Jersey	08202	Weget
Signature	Date 09-03-2020	Telephone (609) 967-3999	Ext.
Copy all pages of this Elevation Certificate and all attachme	ents for (1) communit	y official, (2) insurance a	igent/company, and (3) building owner.
Comments (including type of equipment and location, pe A8(b) 5 Smartvents (model #1540-520) were installed C2.(e) Outlets 27 SF Elevator (included in A8(a)) Bottom of shaft elevator		e)	

## **ELEVATION CERTIFICATE**

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

IMPORTANT: In these spaces, copy the corre	FOR INSURANCE COMPANY USE				
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. ‡1 107th Street			Policy Number:		
City Stone Harbor	State New Jersey	ZIP Code 08243	Company NAIC Number		
SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)					
For Zones AO and A (without BFE), complete Ite complete Sections A, B, and C. For Items E1–E4, enter meters.	ms E1-E5. If the Certific use natural grade, if ava	ate is intended to support a ailable. Check the measure	LOMA or LOMR-F request, ment used. In Puerto Rico only,		
<ul><li>E1. Provide elevation information for the followin the highest adjacent grade (HAG) and the loan a) Top of bottom floor (including basement,</li></ul>	ng and check the approproverst adjacent grade (LA	riate boxes to show whethe G).	r the elevation is above or below		
crawlspace, or enclosure) is b) Top of bottom floor (including basement,		feet meter	rs 🔲 above or 🔲 below the HAG.		
crawlspace, or enclosure) is	FAM	[] feet [] meter	_ <del>_</del>		
E2. For Building Diagrams 6–9 with permanent f the next higher floor (elevation C2.b in the diagrams) of the building is	lood openings provided i	n Section A Items 8 and/or			
E3. Attached garage (top of slab) is		feet meter			
E4. Top of platform of machinery and/or equipme servicing the building is	ent	feet	s ☐ above or ☐ below the HAG.		
E5. Zone AO only: If no flood depth number is a floodplain management ordinance? Ye	vailable, is the top of the s No Dunknow	bottom floor elevated in acc			
SECTION F - PROPERTY	OWNER (OR OWNER	S REPRESENTATIVE) CE	RTIFICATION		
The property owner or owner's authorized repres community-issued BFE) or Zone AO must sign he	entative who completes are. The statements in Se	Sections A, B, and E for Zo ections A, B, and E are cor	ne A (without a FEMA-issued or rect to the best of my knowledge.		
Property Owner or Owner's Authorized Representative's Name					
Address	Ci	ty Sta	ate ZIP Code		
Signature	Da	ate Te	lephone		
Comments					
7					
			Check here if attachments.		

## **ELEVATION CERTIFICATE**

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

IMPORTANT: In these spaces, copy the corresponding information from Section A. FOR INSURANCE COMP.						
Building Street Address (including Apt., Unit, Suite, and/or l #1 107th Street	Policy Number:					
City State Stone Harbor New	ZIP Code Jersey 08243	Company NAIC Number				
SECTION G - CON	MUNITY INFORMATION (OPTIONAL	L)				
The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.						
G1. 🗹 The information in Section C was taken from other engineer, or architect who is authorized by law to data in the Comments area below.)	engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation					
G2. A community official completed Section E for a be or Zone AO.	uilding located in Zone A (without a FE	EMA-issued or community-issued BFE)				
G3. The following information (Items G4-G10) is prov	rided for community floodplain manage	ement purposes.				
G4. Permit Number $99/3$ G5. Date I $99/3$ G9/	1	5. Date Certificate of Compliance/Occupancy Issued				
G7. This permit has been issued for:   New Const	truction Substantial Improvement					
G8. Elevation of as-built lowest floor (including basement) of the building:	ıy	eet 🗌 meters Datum NAVD 88				
G9. BFE or (in Zone AO) depth of flooding at the building s	/ \	eet meters Datum NAVD 88				
G10. Community's design flood elevation: Hylver of BFE+ 2 or 11  Feet meters Datum NAVD 88						
Local Official's Name	Title					
Raymond Poudnér Community Name	Raymond Poudner Construction Official/Flood Plain Manager  Community Name Telephone					
Borough of Stone Harbor 609-368-6814						
Signature Date 10/16/2020						
Comments (including type of equipment and location, per C2(e), if applicable)						
See attached V Zone Desi	on Certificate					
		Check here if attachments.				

#### **BUILDING PHOTOGRAPHS**

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, c	opy the corresponding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. #1 107th Street			Policy Number:
City	State	ZIP Code	Company NAIC Number
Stone Harbor	New Jersey	08243	

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Photo One

Photo One Caption Front September 3, 2020

**ELEVATION CERTIFICATE** 

Clear Photo One



Photo Two

Photo Two Caption Rear September 3, 2020

Clear Photo Two

## **BUILDING PHOTOGRAPHS**

## **ELEVATION CERTIFICATE**

Continuation Page

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

IMPORTANT: In these spaces, co	FOR INSURANCE COMPANY USE Policy Number:		
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. #1 107th Street			
City	State	ZIP Code	Company NAIC Number
Stone Harbor	New Jersey	08243	

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

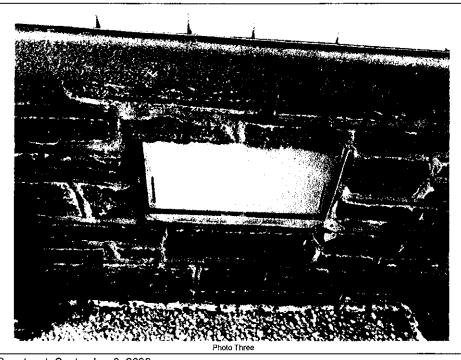


Photo Three Caption Smartvent September 3, 2020

Clear Photo Three

Photo Four

Photo Four

Photo Four Caption

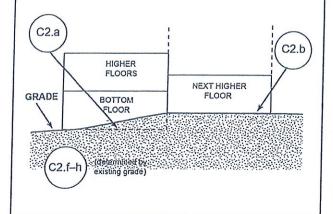
Clear Photo Four Form Page 6 of 6

#### **Building Diagrams**

#### **DIAGRAM 3**

All split-level buildings that are slab-on-grade, either detached or row type (e.g., townhouses); with or without attached garage.

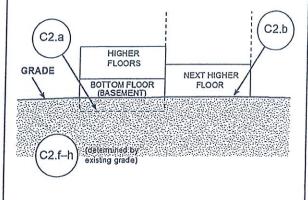
Distinguishing Feature – The bottom floor (excluding garage) is at or above ground level (grade) on at least 1 side.\*



#### DIAGRAM 4

All split-level buildings (other than slab-on-grade), either detached or row type (e.g., townhouses); with or without attached garage.

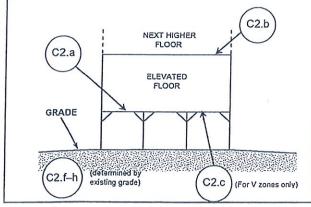
Distinguishing Feature – The bottom floor (basement or underground garage) is below ground level (grade) on all sides.\*



#### DIAGRAM 5

All buildings elevated on piers, posts, piles, columns, or parallel shear walls. No obstructions below the elevated floor.

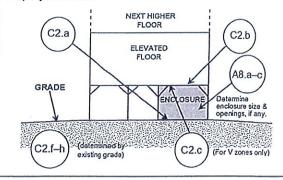
Distinguishing Feature – For all zones, the area below the elevated floor is open, with no obstruction to flow of floodwaters (open lattice work and/or insect screening is permissible).



#### DIAGRAM 6

All buildings elevated on piers, posts, piles, columns, or parallel shear walls with full or partial enclosure below the elevated floor.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings\*\* present in the walls of the enclosure. Indicate information about enclosure size and openings in Section A – Property Information.



- A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.
- \*\* An "opening" is a permanent opening that allows for the free passage of water automatically in both directions without human intervention. Under the NFIP, a minimum of 2 openings is required for enclosures or crawlspaces. The openings shall provide a total net area of not less than 1 square inch for every square foot of area enclosed, excluding any bars, louvers, or other covers of the opening. Alternatively, an Individual Engineered Flood Openings Certification or an Evaluation Report issued by the International Code Council Evaluation Service (ICC ES) must be submitted to document that the design of the openings will allow for the automatic equalization of hydrostatic flood forces on exterior walls, A window, a door, or a garage door is not considered an opening; openings may be installed in doors. Openings shall be on at least 2 sides of the enclosed area. If a building has more than 1 enclosed area, each area must have openings to allow floodwater to directly enter. The bottom of the openings must be no higher than 1.0 foot above the higher of the exterior or interior grade or floor immediately below the opening. For more guidance on openings, see NFIP Technical Bulletin 1.



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# **ICC-ES Evaluation Report**

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ESR-2074

Reissued 02/2019
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® (IBC)
- 2018, 2015, 2012, 2009 and 2006 International Residential Code® (IRC)
- 2018 International Energy Conservation Code® (IECC)
- 2013 Abu Dhabi International Building Code (ADIBC)<sup>†</sup>

 $^{\dagger}\text{The ADIBC}$  is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

#### Properties evaluated:

- Physical operation
- Water flow

#### 2.0 USES

The Smart Vent® units are engineered mechanically operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

## 3.0 DESCRIPTION

#### 3.1 General:

When subjected to rising water, the Smart Vent® FVs internal floats are activated, then pivot open to allow flow in either direction to equalize water level and hydrostatic pressure from one side of the foundation to the other. The FV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water, the buoyant release device causes the unit to unlatch, allowing 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 FloodVENT® 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  $^{\otimes}$  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 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

TABLE 1-MODEL SIZES

MODEL NAME MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
FloodVENT® 1540-520	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	
SmartVENT® 1540-510	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200
loodVENT® Overhead Door 1540-524	1.000-30.000.000.000.000.000.000	200
most) (ENIT® O	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200
\Mood \M!! \C! \\ \n \mathrea{\text{P}}	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200
	14" X 8 <sup>3</sup> / <sub>4</sub> "	200
Vall 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		400
SmartVENT® Stacker         1540-511           FloodVent® Stacker         1540-521           nch = 25.4 mm; 1 square foot = m²	16" X 16" 16" X 16"	

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

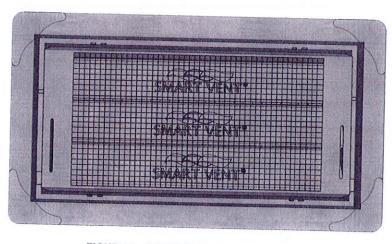


FIGURE 1—SMART VENT: MODEL 1540-510

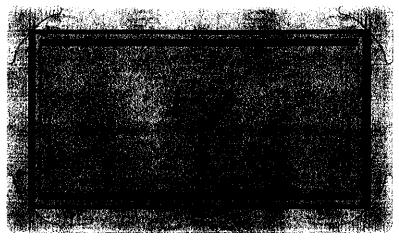


FIGURE 2—SMART VENT MODEL 1540-520

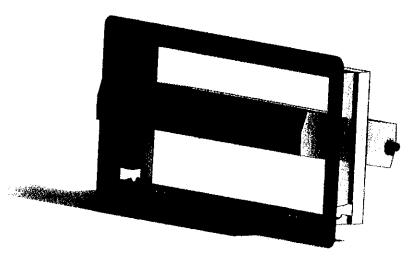


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

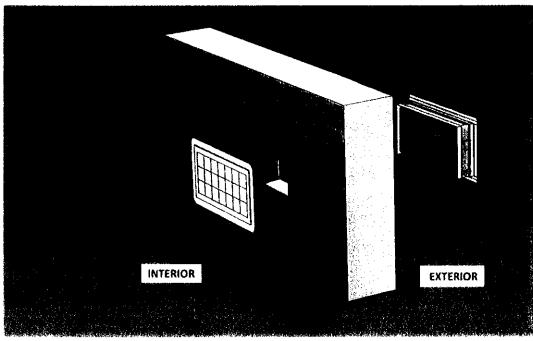


FIGURE 4—FLOOD VENT SEALING KIT



## **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; #1540-524; #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.





## **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.

**Note:** The N Zone lesign continuate is not als lost total tenthe NFIP Elevation Continuate, see Fact Sheet No. 1.44 January Elevation, which is required to certify as built elevations record to face in report of records.

V ZONE DESIGN CERTIFICATE
Name JACK 40 BARRAL HATHER POICYNUMBOURISTINGOUSE)
Name JACK AND DARROWS I 107th Street
Building Address of Other Description   107th Street Perint Nu City Stone Harbor State NI ZpCode 08247
SECTION I: Flood Insurance Rate Map (FIRM) Information
Community No. 3 45323 Panel No. 34009C0742 E FIAMDAIR F. FIAMDAIR FIRM Zeneral VE
SECTION II: Elevation Information Used for Design
(NOTE: This section documents the elevations/depths used or specified in the design - it does not document surveyed elevations and is not equivalent to the as-built elevations required to be submitted during or after construction.
FIRM Base Flood Elevation (BFE)     Community's Dosign Flood Elevation (DFE)     [4 feet]
The state of the s
5. Depth of Anticipated Scour/Erosion used for Foundation Design
A Programmat Pourth of Differe or Foundation Below Lowest Advacent Utable
Indicate elevation datum used in 14: UNGV029 MNAVD88 LI Other
SECTION III: V Zone Design Certification Statement
I certify that (1) I have developed or reviewed the structural design, plans, and specifications for construction of the above referenced building and (2) that the design and methods of construction specified to be used are in accordance with accepted standards of practice." for meeting the following entrusions:
<ul> <li>The bosom of the lowest horizontal structural member of the loadest floor loxe is no presided countries is a division in</li> </ul>
<ul> <li>The pric and column foundation and structure attached thereto is anothered to resist solution, soliapse, and taleau movement due to the effects of the wind and water loads acting simultaneously on all building components. Water loading values ment 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. The cotenhal for social and eros on all the foundation has even unlicipated for conditions associated with the base flood. Including waver action.</li> </ul>
SECTION IV: Breakaway Wall Design Certification Statement
NOTE This section must be certified by a registered engineer or architect when breakaway walts are designed to have a resistance of more than 20 psf (0.96 kN/m2) determined using offlowable stress design)
I certify that: (1) I have developed or reviewed the structural design, plans, and specifications for construction of breakaway walls to be constructed under the above-referenced building and (2) that the design and methods of construction specified to be used are in accordance with inaccepted standards of practice." for meeting the following provisions:
The state of the s
<ul> <li>The elevates portion of the bailding and supporting feuroason system shared are disclosed to building components (see other structural damage due to the effects of wind and water loads acting simultaneously on all building components (see Section 81).</li> </ul>
SECTION V: Certification and Seal
This certification is to be signed and seafed by a requisered professional engineer or architect authorized by law to certify structural designs. I certify the V Zone Design Certification Statement (Section III) and the Breakaway Walk Onsign Certification Statement (Section IV, check if applicable).
Certifiers Name Paul A. KISS Leanse Number AT 11517
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