# 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 - PRO	OPERTY INFORMATION		FOR INSURANCE COMPANY USE
A1. Building Owner's Name Piraino Builders			Policy Number:
A2. Building Street Address (including Apt., U Box No. #423 North Rumson Avenue	nit, Suite, and/or Bldg. No.) or P	.O. Route and	Company NAIC Number:
City City of Margate	State New Jersey		ZIP Code 08402
A3. Property Description (Lot and Block Numl Block 618 Lot 16	bers, Tax Parcel Number, Legal	Description, etc.)	
A4. Building Use (e.g., Residential, Non-Residential	dential, Addition, Accessory, etc	.) Residential	
A5. Latitude/Longitude: Lat. 39.3301	Long. <u>-74.5130</u>	Horizontal Datu	ım: ☐ NAD 1927 🗵 NAD 1983
A6. Attach at least 2 photographs of the build	ing if the Certificate is being use	d to obtain flood insu	ırance.
A7. Building Diagram Number7			
A8. For a building with a crawlspace or enclos	sure(s):		
a) Square footage of crawlspace or enclo	osure(s)100	05.00 sq ft	
b) Number of permanent flood openings in	n the crawlspace or enclosure(s	) within 1.0 foot abov	ve adjacent grade 7
c) Total net area of flood openings in A8.t	b 1400.00 sq in		
d) Engineered flood openings? X Yes	; 🔲 No		
A9. For a building with an attached garage:			
a) Square footage of attached garage	- 0.00 sq ft		
b) Number of permanent flood openings in	n the attached garage within 1.0	foot above adjacent	grade 0
c) Total net area of flood openings in A9.b			
d) Engineered flood openings?			
SECTION B - FI	LOOD INSURANCE RATE MA	AP (FIRM) INFORM	IATION
B1. NFIP Community Name & Community Nur			B3. State
CITY OF MARGATE & 345304	ATLANTIC CO		New Jersey
B4. Map/Panel B5. Suffix B6. FIRM Inc. Date			Base Flood Elevation(s) (Zone AO, use Base Flood Depth)
34001C0434 F 08-28-2018	08-28-2018 A	E 9**	
B10. Indicate the source of the Base Flood Ele	and the first term of the second second		m B9:
B11. Indicate elevation datum used for BFE in	ı Item B9: ☐ NGVD 1929 🗵	NAVD 1988 🔲 C	Other/Source:
B12. Is the building located in a Coastal Barrie	er Resources System (CBRS) a	rea or Otherwise Pro	otected Area (OPA)? Tyes X No
Designation Date:	☐ CBRS ☐ OPA		

## **ELEVATION CERTIFICATE**

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

IMPORTANT: In these spaces, copy 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. #423 North Rumson Avenue	Policy Number:		
City State ZIP Code City of Margate New Jersey 08402	Company NAIC Number		
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY)	REQUIRED)		
C1. Building elevations are based on: Construction Drawings* Building Under Const *A new Elevation Certificate will be required when construction of the building is complete.  C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, A Complete Items C2.a–h below according to the building diagram specified in Item A7. In Pue	R/AF AR/A1-A30 AR/AH AR/AO		
Benchmark Utilized: private Vertical Datum: NAVD88			
Indicate elevation datum used for the elevations in items a) through h) below.			
☐ NGVD 1929 区 NAVD 1988 ☐ Other/Source:			
Datum used for building elevations must be the same as that used for the BFE.	Check the measurement used.		
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	6.0 X feet meters		
b) Top of the next higher floor	15.4 ★ feet  meters		
c) Bottom of the lowest horizontal structural member (V Zones only)	N/A ☒ feet ☐ meters		
d) Attached garage (top of slab)	N/A ☒ feet ☐ meters		
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	15.1 🔀 feet 🗌 meters		
f) Lowest adjacent (finished) grade next to building (LAG)	5.5 X feet meters		
g) Highest adjacent (finished) grade next to building (HAG)	6.2 🗵 feet 🦳 meters		
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	5.5 🗵 feet 🗌 meters		
SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTI	FICATION		
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized I certify that the information on this Certificate represents my best efforts to interpret the data available statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.  Were latitude and longitude in Section A provided by a licensed land surveyor?	by law to certify elevation information.  ilable. I understand that any false		
	Check here if attachments.		
Certifier's Name  Paul M. Koelling, PLS, CFM  License Number  NJ24GS 04328800			
Title Professional Land Surveyor	Place		
Company Name Paul Koelling & Associates NJ C.O.A. 24GA28256300	Sea		
Address 2161 Shore Road sox-PHKsurvey@comcast.net	Here		
City State ZIP Code Linwood New Jersey 08221			
Signature Date Telephone (609) 927-0279	Ext.		
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance	e agent/company, and (3) building owner.		
Comments (including type of equipment and location, per C2(e), if applicable) *A8b.) Six (6) Smart Vents Model #1540-520 engineered for 200 square inches of net area each			
**B8 & B9.) Dwelling is located in FEMA Pre-FIRM Zone "AE"Base Flood Elevation 9 ft. (NAVD88);  Portions of property are located in FEMA FIRM Zone "AE"Base Flood Elevation 8 ft. (NAVD88)			
***C2a.) Enclosure with grage, entry, closet, stairs (elev 6.0) elevator pit (24 s.f.)(elev 5.2) ****C2e.) exterior air unit (elev 15.1)pool equipment (elev 15.1)			

## **ELEVATION CERTIFICATE**

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

IMPORTANT: In these spaces, copy the correspondir	FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, Suite, and/4423 North Rumson Avenue	or Bldg. No.) or P.O. Ro	ute and Box No.	Policy Number:	
	ate ZIP	' Code	Company NAIC Number	
City of Margate No.	ew Jersey 084	102		
SECTION E – BUILDING ELE FOR ZONE	VATION INFORMATION AO AND ZONE A (WI	ON (SURVEY NOT THOUT BFE)	REQUIRED)	
For Zones AO and A (without BFE), complete Items E1–complete Sections A, B, and C. For Items E1–E4, use na enter meters.	E5. If the Certificate is ir tural grade, if available.	ntended to support Check the measure	a LOMA or LOMR-F request, ement used. In Puerto Rico only,	
<ul><li>E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).</li><li>a) Top of bottom floor (including basement,</li></ul>				
crawlspace, or enclosure) is		☐ feet ☐ mete	rs 🔲 above or 🔲 below the HAG.	
<ul> <li>Top of bottom floor (including basement, crawlspace, or enclosure) is</li> </ul>		☐ feet ☐ mete	rs 🔲 above or 🔲 below the LAG.	
E2. For Building Diagrams 6–9 with permanent flood op	enings provided in Secti	on A Items 8 and/o	9 (see pages 1–2 of Instructions),	
the next higher floor (elevation C2.b in the diagrams) of the building is		☐ feet ☐ mete	rs above or below the HAG.	
E3. Attached garage (top of slab) is		☐ feet ☐ mete	rs above or below the HAG.	
E4. Top of platform of machinery and/or equipment servicing the building is		∏feet ∏mete	rs ☐ above or ☐ below the HAG.	
E5. Zone AO only: If no flood depth number is available		floor elevated in a	ccordance with the community's	
floodplain management ordinance?	No [_] Unknown. Th		certify this information in Section G.	
		DESENTATIVE) C	FRIIFICATION	
SECTION F - PROPERTY OWN	ER (OR OWNER'S REP	RESENTATIVE) C	ERTHIOATION	
SECTION F – PROPERTY OWNI The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	who completes Section	ns A, B, and E for Z	one A (without a FEMA-issued or	
The property owner or owner's authorized representative	who completes Section statements in Sections	ns A, B, and E for Z	one A (without a FEMA-issued or	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	who completes Section statements in Sections	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's	who completes Sections statements in Sections Name	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address  Signature	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address  Signature	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address  Signature	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address  Signature	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address  Signature	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address  Signature	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address  Signature	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address  Signature	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address  Signature	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address  Signature	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address  Signature	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address  Signature	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address  Signature	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address  Signature	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address  Signature	who completes Sections e statements in Sections Name City	ns A, B, and E for Z A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	

## **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, St	uite, and/or Bldg. No.) or P.O	Route and Box No.	Policy Number:		
#423 North Rumson Avenue					
City	State	ZIP Code	Company NAIC Number		
City of Margate	New Jersey	08402			
SECTIO	N G - COMMUNITY INFOR	MATION (OPTIONAL)			
The local official who is authorized by law or on	dinance to administer the cor	prounit de fleedaleia men			
The local official who is authorized by law or on Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, en	Certificate. Complete the app	nmunity's floodplain mar olicable item(s) and sign	nagement ordinance can complete below. Check the measurement		
G1. The information in Section C was take engineer, or architect who is authorized 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 or Zone AO.	on E for a building located in	Zone A (without a FEMA	A-issued or community-issued BFE)		
G3. The following information (Items G4–	G10) is provided for commun	ity floodplain manageme	ent purposes.		
G4. Permit Number	G5. Date Permit Issued		Date Certificate of		
			compliance/Occupancy Issued		
G7. This permit has been issued for:	New Construction  Subs	tantial Improvement			
G8. Elevation of as-built lowest floor (including of the building:	basement)	feet	meters Datum		
G9. BFE or (in Zone AO) depth of flooding at t	ne building site:	feet	meters Datum		
G10. Community's design flood elevation:	· · · · · · · · · · · · · · · · · · ·	feet	meters Datum		
Local Official's Name  Title  CFM  Community Name  Telephone  MARCASE  Telephone					
Community Name	Tele	phone			
M.	AR(AJa		609. Ell-1977		
Signature	Date	,	CFM 603- 622-1977 3/21/22		
7-14			3/2//20		
Comments (including type of equipment and loc	ation, per C2(e), if applicable	2)			
			Check here if attachments.		



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## **ICC-ES Evaluation Report**

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**ESR-2074** 

Reissued 02/2021 Revised 04/2021 This report is subject to renewal 02/2023.

**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 2021 Revised April 2021

This report is subject to renewal February 2023.

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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:

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

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 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 F283.

#### 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.
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> /4" X 7 <sup>3</sup> /4"	200
SmartVENT®	1540-510	15 <sup>3</sup> /4" X 7 <sup>3</sup> /4"	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 St: 1 inch = 25.4 mm; 1 square foot = m<sup>2</sup>

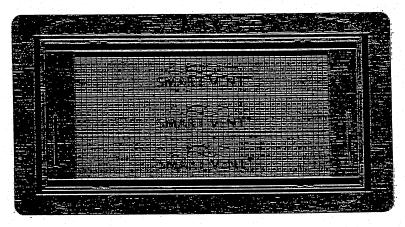


FIGURE 1-SMART VENT: MODEL 1540-510

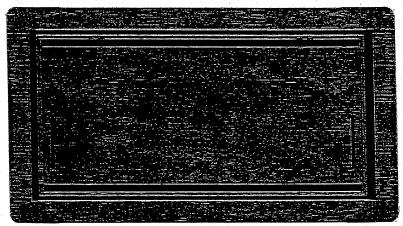


FIGURE 2-SMART VENT MODEL 1540-520

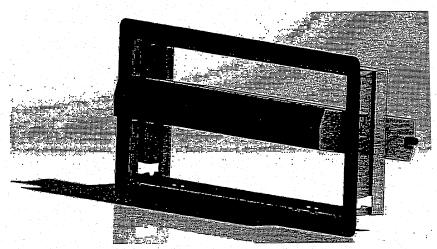


FIGURE 3-SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

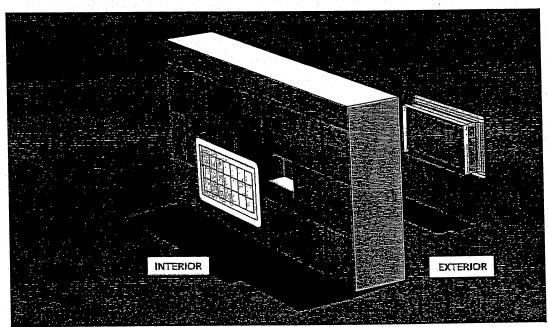


FIGURE 4-FLOOD VENT SEALING KIT



## **ICC-ES Evaluation Report**

## ESR-2074 CBC and CRC Supplement

Reissued February 2021 Revised April 2021

This report is subject to renewal February 2023.

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DIVISION: 08 00 00-OPENINGS

Section: 08 95 43-Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

**EVALUATION SUBJECT:** 

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

#### 1.0 REPORT PURPOSE AND SCOPE

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) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

■ 2019 California Residential Code (CRC)

#### 2.0 CONCLUSIONS

#### 2.1 CBC;

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with 2019 CBC Chapter 12, provided the design and installation are in accordance with the 2018 International Building Code® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 12 and 16, as applicable.

#### 2.1.1 OSHPD:

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

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

#### 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 2021 and revised April 2021.



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## ICC-ES Evaluation Report

## **ESR-2074 FBC Supplement**

Reissued February 2021 Revised April 2021 This report is subject to renewal February 2023.

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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 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 2021 and revised April 2021.



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## **Building Photographs**

See Instructions for Item A6.			For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg.) No. or P.O. Route and Box No. #423 North Rumson Avenue		Policy Number	
City	State	ZIP Code	Company NAIC Number
Margate	New Jersey	08402	

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two 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." If submitting more photographs than will fit on this page, use the Continuation Page on the reverse.





Front View – Date of Photograph: (See Photo Stamp)

Rear View – Date of Photograph: (See Photo Stamp)





Right Side View – Date of Photograph: (See Photo Stamp)

Vent View – Date of Photograph: (See Photo Stamp)