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.

A4 5 00	SEC	TION A - PROPER	RTY INFO	ORMATION		, (-)		pany, and (3) building owns
A1. Building Owner SONYA D. HOLLA	ND AND RIC						Policy N	
A2. Building Street Box No. 17725 Long Point D		cluding Apt., Unit, S	uite, and	d/or Bldg. No	.) or P.O.	Route an	Compan	y NAIC Number:
City Redington Short A3. Property Description 27. Let		nd Black Numbers	Toy Dow	State Florid	а		ZIP Code 33708	9
Lot 37 - Long Point	Sub Plat B	ook 34, Page 38 - I	Parcel #3	32-30-15-527	regal Des 776-000-0	scription, (370	etc.)	
A4. Building Use (e A5. Latitude/Longitu A6. Attach at least 2	e.g., Resident ude: Lat. 27 2 photograph	ial, Non-Residentia 82902°N s of the building if t	I, Additio	on, Accessor -82.82359°V	y, etc.) _	Residen Horizont	tal Datum: NAI	D 1927 🔀 NAD 1983
A7. Building Diagrar A8. For a building w a) Square foota	m Number rith a crawlsp age of crawlsp): 3)		1590.00	sq ft		
c) Total net area	of flood ope	enings in A8.b		2400.00 sq		IN 1.U 100	ot above adjacent g	rade 12
	ge of attached rmanent flood of flood oper	d garaged openings in the at	ttached g		1.0 foot a	above adj	acent grade 0	
	SECT	TION B - FLOOD	INSURA	NCE RATE	MAP (FI	RM) INF	ORMATION	
B1_NFIP Community Redington Shores - 12	Name & Con	nmunity Number		B2. County Pinellas				B3. State Florida
B4. Map/Panel B Number 12103C0179 H		6. FIRM Index Date 3-24-2021	Effe	M Panel ective/ rised Date	B8. Floo Zone(s)		B9. Base Flood E (Zone AO, use	llevation(s) e Base Flood Depth)
	⊴ FIRM □	Community Detern	nined [Other/Sou	rce:		in Item B9:	
B11. Indicate elevation	n datum used	for BFE in Item B9	9: 🗌 NO	GVD 1929 (× NAVD	1988 [Other/Source:	
B12. Is the building loc Designation Date	cated in a Co			stem (CBRS)) area or (Otherwise	Protected Area (O	PA)? Yes X No

ELEVATION CERTIFICATE

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BINDORTANT: in these spaces, copy the corresponding information from Section A. FOR INSURANCE COMPANY USE	TENERS IN these energy converte corres	nonding information from Section	on A.	FOR INSURANC	E COMPANY USE
State ZIP Code State ZIP Code Company NAIC Number Redington Shores SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)	IMPORTANT: In these spaces, copy the correct	te and/or Bldg. No.) or P.O. Route	and Box No.	Policy Number:	
State	Building Street Address (including Apr., orin, our	to, and or bleg. they	1		
Redington Shores SECTION C - Bull DING ELEVATION INFORMATION (SURVEY REQUIRED) C1. Building elevations are based on:		State ZIP Co	ode	Company NAIC N	iumber
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) C1. Building elevations are based on:			1	n	
C1. Building elevations are based on:		DING ELEVATION INCOPMATIC	N (SURVEY RE	QUIRED)	
1. Building elevations are based on					
*A new Elevation Certificate will be required when construction of the building is complete. C2. Elevations— Zones Af-A9J. Ag. HA, H. Ag. With BFE), VE, 1-V9.0, V with BFE), NE, AR, ARA, AR.		0.101.00	_	ction" X Finisi	ded Construction
Complete Items (2.2 –h betwoed according to the delivations in items a) through h) below. Benchmark Utilized: County Map #200 (Red. 8)	to Claustian Cortificate will be require	ed when construction of the building	is complete.	AE AB/A4 A20	ADIAH ABIAO
Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929	Complete Items C2.a-h below according	to the bullding diagram specified in		o Rico only, enter	meters.
Datum used for building elevations must be the same as that used for the BFE. Check the measurement used.					
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) b) Top of the next higher floor c) Bottom of the lowest horizontal structural member (V Zones only) d) Attached garage (top of slab) e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) f) Lowest adjacent (finished) grade next to building (LAG) g) Highest adjacent (finished) grade next to building (LAG) h) Lowest adjacent (finished) grade next to building (HAG) h) Lowest adjacent (finished) grade next to building (HAG) h) Lowest adjacent for and sealed by a land surveyor, engineer, or architect authorized by law to certify that the information or this Cartificate represents my best efforts to interpret the data available. I understand that any false 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? Yes No Certifier's Name John O. Brendla & Associates, Inc. Address Company Name John C. Brendla & Associates, Inc. Date Title Surveyor Company Name John C. Brendla & Associates, Inc. Date Telephone Telephone Company Name John C. Brendla & Associates, Inc. Date Telephone Company Name John C. Brendla & Associates, Inc. Address Signature Date Telephone Telephone Telephone Company Name John C. Brendla & Associates, Inc. Address Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner Comment including type of equipment and location, per C2(e), if applicable) Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner Comment including type of equipment and location per call of the house NOTE: The Permit was issued prior to 08-24-2021 on FIRM Map P					
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(Describe type of equipment and location in Colliminates) f) Lowest adjacent (finished) grade next to building (LAG) g) Highest adjacent (finished) grade next to building (HAG) h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the date available. I understand that any false 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? Certifier's Name					_
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Were latitude and longitude in Section A provided by a licensed land surveyor?	This certification is to be signed and sealed b	y a land surveyor, engineer, or arch	itect authorized b	w law to certify ele	evation information. I that any false
Title Surveyor Company Name John C. Brendla & Associates, Inc. Address 4015 82nd Avenue North City Pinellas Park Signature Date 10-20-2022 Telephone (727) 576-7546 None Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner Comments (Including type of equipment and location, per C2(e), if applicable) C2) a. Parking and Storage, C2). The Lowest Living Floor, C2) e. The Water Heater located on the East side of the house NOTE: The Permit was issued prior to 08-24-2021 on FIRM Map Panel #12103C0179 Suffix G, Rev. Date 09-03-2003 Flood Zone AE base flood elev. 10.0°, - There are 12 Smart vents around the ground floor Model #1540-520 at 200 square inch per vent for a total of 2400 square inches, - The ICC-ES Evaluation Report is attached, - The Photos are the attachments Benchmark: County Map #200 (Redington B) Elev. 4.549' NGVD adjusted to Elev. 3.81' NAVD - MSL = 0.00 Latitude/Longitude derived from Google Earth	Were latitude and longitude in Section A prov	rided by a licensed land surveyor?	⊠Yes □ No	⊠ Check he	ere if attachments.
Title Surveyor Company Name John C. Brendla & Associates, Inc. Address 4015 82nd Avenue North City Pinellas Park Signature Date 10-20-2022 Telephone (727) 576-7546 None Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner Comments (Including type of equipment and location, per C2(e), if applicable) C2) a. Parking and Storage, C2). The Lowest Living Floor, C2) e. The Water Heater located on the East side of the house NOTE: The Permit was issued prior to 08-24-2021 on FIRM Map Panel #12103C0179 Suffix G, Rev. Date 09-03-2003 Flood Zone AE base flood elev. 10.0°, - There are 12 Smart vents around the ground floor Model #1540-520 at 200 square inch per vent for a total of 2400 square inches, - The ICC-ES Evaluation Report is attached, - The Photos are the attachments Benchmark: County Map #200 (Redington B) Elev. 4.549' NGVD adjusted to Elev.3.81' NAVD - MSL = 0.00 Latitude/Longitude derived from Google Earth	Certifier's Name			100	()
Surveyor Company Name John C. Brendla & Associates, Inc. Address 4015 82nd Avenue North City Pinellas Park Signature Date 10-20-2022 Telephone 10-20-2022 Telephone 10-20-2022 Comments (Including type of equipment and location, per C2(e), if applicable) C2) a. Parking and Storage, C2). The Lowest Living Floor, C2) e. The Water Heater located on the East side of the house NOTE: The Permit was issued prior to 08-24-2021 on FIRM Map Panel #12103C0179 Suffix G, Rev. Date 09-03-2003 Flood Zone AE base flood elev. 10.0', - There are 12 Smart vents around the ground floor Model #1540-520 at 200 square inch per vent for a total of 2400 square inches, - The ICC-ES Evaluation Report is attached, - The Photos are the attachments Benchmark: County Map #200 (Redington B) Elev. 4.549' NGVD adjusted to Elev.3.81' NAVD - MSL = 0.00 Latitude/Longitude derived from Google Earth	John O. Brendla	LS 4601		1	015 W
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John C. Brendla & Associates, Inc. Address 4015 82nd Avenue North City Pinellas Park Signature Date 10-20-2022 Telephone (727) 576-7546 None Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner Comments (Including type of equipment and location, per C2(e), if applicable) C2) a. Parking and Storage, C2). The Lowest Living Floor, C2) e. The Water Heater located on the East side of the house NOTE: The Permit was issued prior to 08-24-2021 on FIRM Map Panel #12103C0179 Suffix G, Rev. Date 09-03-2003 Flood Zone AE base flood elev. 10.0', - There are 12 Smart vents around the ground floor Model #1540-520 at 200 square inch per vent for a total of 2400 square inches, - The ICC-ES Evaluation Report is attached, - The Photos are the attachments Benchmark: County Map #200 (Redington B) Elev. 4.549' NGVD adjusted to Elev. 3.81' NAVD - MSL = 0.00 Latitude/Longitude derived from Google Earth	Surveyor			—\ \ \ \ \ \	race
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ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the cor	responding information from	m Section A	Expiration Date: November 30, 202
building Street Address (including Apt., Unit. S	Suite, and/or Bldg. No.) or P C). Route and Roy No.	FOR INSURANCE COMPANY US
TO Long I offic Drive		Your and DUX 140.	Policy Number:
City Redington Shores	State	ZIP Code	Company NAIC Number
	Florida	33708	
SECTION E – BUILD FO	ING ELEVATION INFORM R ZONE AO AND ZONE A	ATION (SURVEY NOT	REQUIRED)
For Zones AO and A (without REE) complete it	toma Ed EE IEU a us		LOSSALOSSE =
enter meters.	The Matara Grade, it availa	ble. Check the measure	ment used. In Puerto Rico only,
E1. Provide elevation information for the follow the highest adjacent grade (HAG) and the a) Top of bottom floor (including basement	ing and check the appropriate lowest adjacent grade (LAG).	e boxes to show whether	r the elevation is above or below
crawispace, or enclosure) is			
 Top of bottom floor (including basement crawlspace, or enclosure) is 	,	_	E SOLON THE LIVE
E2. For Building Diagrams 6–9 with permanent the next higher floor (elevation C2.b in	flood openings provided in S	ection A Items 8 and/or	s above or below the LAG
the next higher floor (elevation C2.b in the diagrams) of the building is	<u> </u>	feet meters	
E3. Attached garage (top of slab) is		☐ feet ☐ meters	
 Top of platform of machinery and/or equipm servicing the building is 	nent	ioot meters	above or below the HAG
		feet meters	above or below the HAG
5. Zone AO only: If no flood depth number is a floodplain management ordinance? Ye	vailable, is the top of the bott es	om floor elevated in accommodate and the second official must contain the second official must contain the second of the second	ordance with the community's ertify this information in Section G.
	Y OWNER (OR OWNER'S R		
the property owner or owner's authorized represt ommunity-issued BFE) or Zone AO must sign he roperty Owner or Owner's Authorized Represen	The state of the October	ons A, B, and E are corre	ct to the best of my knowledge.
ddress	City	State	e ZIP Code
ignature	Date	Tele	phone
omments			
omments			
			□ 0h
			Check here if attachments.

ELEVATION CERTIFICATE

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

G9. BFE or (in Zone AO) depth of flooding at the building site:	LEVATION CERTIFICATE	eponding informat	tion from Section A.	FOR INSURANCE COMPANY USE
State ZIP Code State ZIP Code Sary Robins Section S - COMMUNITY INFORMATION (OPTIONAL)	PORTANT: In these spaces, copy the corres	te and/or Bldg. No	.) or P.O. Route and Box N	lo. Policy Number:
State ZIP Code Gompany NATU Number SECTION 6 - COMMUNITY INFORMATION (OPTIONAL) he 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 seed in tems 66-670. In Puterfix flooto only, enter meters. 11.	uilding Street Address (including Apt., Onit, Sui	to, and or blog. He	•	
deligitor Shores Florida SayToB Section G = CoMMUNITY INFORMATION (OPTIONAL)		State	ZIP Code	Company NAIC Number
SECTION G - COMMUNITY INFORMATION (OPTIONAL) Ne 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 tem(s) and sign below. Check the measurement seed in Items G8-G10. In Puerto Rico only, enter meters. In Information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.) A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO. The following information (Items G4-G10) is provided for community floodplain management purposes. G6. Date Permit Issued G6. Date Certificate of Compliance/Occupancy Issued G7. This permit has been issued for: New Construction Substantial Improvement G8. Elevation of as-built lowest floor (including basement) feet meters Datum G7. Be Elevation of as-built lowest floor (including basement) feet meters Datum G7. Be FE or (in Zone AO) depth of flooding at the building site: G7. Title Title Title Community Sessign flood elevation: G7. This permit has been issued for: G7. This permit has been issued for: G7. This permit has been issued for: G7. Date Certificate of Compliance/Occupancy Issued G7. This permit has been issued for: G8. Elevation of as-built lowest floor (including basement) feet meters Datum G8. Elevation of as-built lowest floor (including basement) feet meters Datum G7. This permit has been issued for: G8. Elevation of as-built lowest floor (including basement) feet meters Datum G9. Be FE or (in Zone AO) depth of flooding at the building site: G7. This permit has been issued for: G7. This permit has been issued for: G7. This permit has been issued for: G7. This			33708	
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G8. Elevation of as-built lowest floor (including basement)	34. Permit Number	G5. Date Permit	Issued	G6. Date Certificate of Compliance/Occupancy Issued
G9. BFE or (in Zone AO) depth of flooding at the building site:			n Substantial Improven	nent
39. BFE or (in Zone AO) depth of flooding at the building site. 310. Community's design flood elevation: Cocal Official's Name Title Community Name Telephone Signature Date Comments (including type of equipment and location, per C2(e), if applicable)	38. Elevation of as-built lowest floor (including of the building:	g basement)		
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BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

OMB No. 1660-0008

IMPORTANT: In these spaces services	See instruction	ons for Item A6.	Expiration Date: November 30, 2022
IMPORTANT: In these spaces, copy Building Street Address (including Ap 17725 Long Point Drive	t., Unit, Suite, and/or Bldg. No.)	on from Section A. or P.O. Route and Box No.	
City Redington Shores	State Florida	ZIP Code 33708	Company NAIC Number
If using the Flores			

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

Clear Photo One



Photo Two

Photo Two Caption REAR

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2022	ation Page	Conting	IMPORTANT: In these spaces c
the same of the sa	ion from Section A.) or P.O. Route and Box No.	Apt., Unit, Suite, and/or Bidg. No	IMPORTANT: In these spaces, c Building Street Address (including 17725 Long Point Drive
Company NAIC Number	ZIP Code 33708	State Florida	City Redington Shores
	33708	Florida	

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.

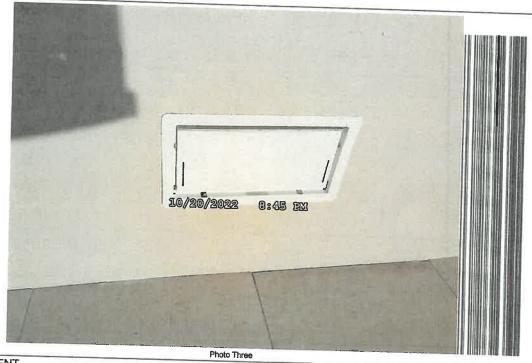


Photo Three Caption VENT

Clear Photo Three



Photo Four Caption EQUIPMENT

FEMA Form 086-0-33 (12/19)

Clear Photo Four



ICC-ES Evaluation Report

ESR-2074 FBC Supplement

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

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

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 Floride 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

This supplement expires concurrently with the evaluation report, reissued February 2021 and revised April 2021.





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®

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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:

- a 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

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

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).
- Test report on air infiltration in accordance with ASTM E283.

7.0 IDENTIFICATION

- 7.1 The Smart VENT® models and the Flood Vent Sealing Kit described in this report must be identified by a label bearing the manufacturer's name (Smartvent Products, Inc.), the model number, and the evaluation report number (ESR-2074).
- 7.2 The report holder's contact information is the following:

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

www.smartvent.com info@smartvent.com

TABLE 1-MODEL SIZES

NODEL NAME	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
FloodVENT®	1540-520	153/4° X 73/4°	200
SmartVENT®	1540-510	15 ³ / ₄ " × 7 ³ / ₄ "	200
FloodVENT® Overhead Door	1540-524	15 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT® Overhead Door	1540-514	15 ³ / ₄ " X 7 ³ / ₄ "	200
Wood Wall FloodVENT®	1540-570	14" X 83/4"	200
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 8 ³ / ₄ "	200
SmartVENT® Stacker	1540-511	16" X 16"	400
FloodVent® Stacker	1540-521	16" X 16"	400

For SI: 1 inch = 25.4 mm; 1 square foot = m2

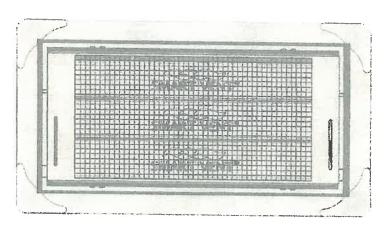


FIGURE 1-SMART VENT: MODEL 1540-510

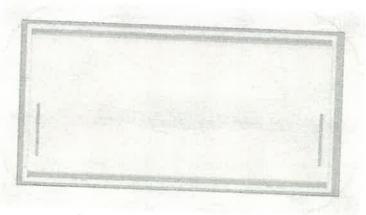


FIGURE 2-SMART VENT MODEL 1540-520

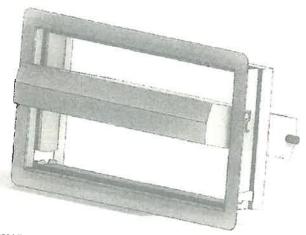


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

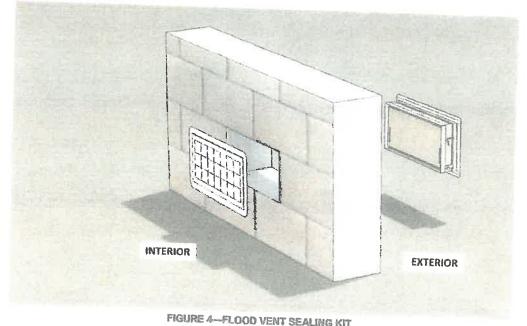


FIGURE 4-FLOOD VENT SEALING KIT



ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00-OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

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

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, described in ICC-ES evaluation report ESR-2074, have also been evaluated for compliance with codes noted below.

Applicable code editions:

2019 California Building Code (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) 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 Coole® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 12 and 16, as

2.1.1 OSHPD:

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

2.1.2 DSA-

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

2.2 CRC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with the 2019 CRC, provided the design and installation are in accordance with the 2018 International Residential Code® (IRC) provisions noted in the evaluation report.

This supplement expires concurrently with the evaluation report, reissued February 2021 and revised April 2021.



