ARTMENT OF HOMELAND SECURITY nergency Management Agency nd Insurance Program

j.

MAY 3 0 2023

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

Important: Follow the instructions pripages 1-9.

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

	S	ECTION A - PROPER	RTY INFO	ORMATION	arity official	, (2) 111801		pany, and (3) building ow URANCE COMPANY U
A1. Building Owner's Name					Policy Nu	and the second s		
a de difficiente de la companya de l								
	A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Cor 329 92nd Street				Company	NAIC Number:		
City STONE HA	RBOR			State			ZIP Code	
	escription (Lo	t and Block Numbers,	Tax Par	New J cel Number, L	ersey .egal Descri	iption, etc	08247	
DECOT: 02.04								
A5. Latitude/Lo	naitude: Lat	ential, Non-Residentia			, etc.) R	ESIDENT	ΓIAL	
				-74.759780	Н	lorizontal	Datum: NAD	1927 X NAD 1983
A7. Building Dia	asi z priotogra	aphs of the building if t	he Certi	ficate is being	used to ob	tain flood	insurance.	
		r8 rlspace or enclosure(s)	· ·					
		rispace or enclosure(s) wispace or enclosure(s						
					936.00 s	q ft		
c) Total net	area of flood	flood openings in the o				1.0 foot a	above adjacent gr	ade 5
		openings in A8.b	The second second	1000.00 sq	n			
	ed flood open		No					
A9. For a building	with an attac	ched garage:						
a) Square fo	otage of attac	hed garage		N/A sq t	t			
b) Number o	f permanent f	lood openings in the a	ttached o	arage within	1.0 foot abo	ove adiac	ent grada NI/A	
c) Total net	area of flood o	penings in A9.b		N/A so		ove adjac	ent grade TVA	Manager and the State of the St
		ngs? [] Yes [] I	Vo.	14/74 30	(111			
				and the second s				
B1. NFIP Commu	nity Name 8 (Community Number	INSURA			M) INFO	RMATION	QUITATION - COMPANY TO THE PROPERTY OF THE PRO
BOROUGH OF S	TONE HARB	OR-345323		B2. County CAPE MAY				B3. State New Jersey
4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	RM Panel ective/	B8. Flood Zone(s)	E	39. Base Flood El (Zone AO, use	levation(s) Base Flood Depth)
4009C0242	F	10-05-2017	10-05-2	vised Date 2017	AE	9		- Dood Flood Depthy
110. Indicate the	source of the	Base Flood Elevation	(BEE) de	uta or bass fi				
FIS Profi	e 🗵 FIRM	Community Deterr	nined [Other/Sour	ce:	ntered in	Item B9:	
11. Indicate elev	ation datum u	sed for BFE in Item B	9: 🗌 NO	GVD 1929 [NAVD 19	988 🗀	Other/Source:	
Designation	Date:	Coastal Barrier Resou	CBRS	Stem (CBRS)	area or Oth	ierwise P	rotected Area (Ol	PA)? ☐ Yes ☒ No
1A Form 086-0-33	3 (12/19)	Re	nlages e	Il previous ed	141			

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. 329 92nd Street	Policy Number:
CityStateZIP CodeSTONE HARBORNew Jersey08247	Company NAIC Number
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY R	EQUIRED)
C1. Building elevations are based on: Construction Drawings* Building Under Constru	uction* X Finished Construction
*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, AR Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puer Benchmark Utilized: GPS Vertical Datum: NAVD88	/AE, AR/A1–A30, AR/AH, AR/AO. to Rico only, enter meters.
Indicate elevation datum used for the elevations in items a) through h) below.	
☐ NGVD 1929 ☑ 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)	7.5 X feet meters
b) Top of the next higher floor	14.2 X 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)	12.6 X feet meters
f) Lowest adjacent (finished) grade next to building (LAG)	6.0 X feet meters
g) Highest adjacent (finished) grade next to building (HAG)	7.2 X feet meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	6.8 🔀 feet 🗌 meters
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIF	ICATION
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by I certify that the information on this Certificate represents my best efforts to interpret the data availant statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.	y law to certify elevation information. able. I understand that any false
Were latitude and longitude in Section A provided by a licensed land surveyor? ✓ Yes ☐ No	Check here if attachments.
Certifier's Name License Number THOMAS R. DENEKA 35828	,
Title	
PLS	Place
Company Name THE HYLAND GROUP	Seal
Address	Here
701 WEST AVENUE SUITE 301	HOIC
City State ZIP Code OCEAN CITY New Jersey 08226	
Signature 7/ 2.2 Date Telephone	Ext.
Morras Vineta 05-25-2023 (609) 398-4477	
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) C-2-E is exterior HVAC A-8-C consists of 5 Smart Vents model # 1540-510 covering 200 sq. ft. of vent space each.	

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding	information from Se	ction A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or 329 92nd Street	Bldg. No.) or P.O. Ro	ute and Box No.	Policy Number:
City Sta STONE HARBOR New	te ZIP w Jersey 082	Code 247	Company NAIC Number
SECTION E – BUILDING ELEV FOR ZONE A	ATION INFORMATION AND ZONE A (WI		REQUIRED)
For Zones AO and A (without BFE), complete Items E1–E complete Sections A, B,and C. For Items E1–E4, use natuenter meters.	ıral grade, if available.	Check the measurer	nent used. In Puerto Rico only,
E1. Provide elevation information for the following and che the highest adjacent grade (HAG) and the lowest gra	eck the appropriate bo acent grade (LAG).	xes to show whether	the elevation is above or below
 a) Top of bottom floor (including basement, crawlspace, or enclosure) is b) Top of bottom floor (including basement, 		☐ feet ☐ meter	s above or below the HAG.
crawlspace, or enclosure) is		☐ feet ☐ meters	
E2. For Building Diagrams 6–9 with permanent flood oper the next higher floor (elevation C2.b in the diagrams) of the building is	nings provided in Section	on A Items 8 and/or	
E3. Attached garage (top of slab) is		☐ feet ☐ meters	s 🔲 above or 🔲 below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is		☐ feet ☐ meter	s ☐ above or ☐ below the HAG.
E5. Zone AO only: If no flood depth number is available, i floodplain management ordinance? Yes N			cordance with the community's certify this information in Section G.
SECTION F PROPERTY OWNER	R (OR OWNER'S REP	RESENTATIVE) CE	RTIFICATION
The property owner or owner's authorized representative v community-issued BFE) or Zone AO must sign here. The s	who completes Section statements in Sections	s A, B, and E for Zor A, B, and E are corr	ne A (without a FEMA-issued or ect to the best of my knowledge.
Property Owner or Owner's Authorized Representative's N	lame		
Address	City	Sta	te ZIP Code
Signature	Date	Tel	ephone
Comments			
			☐ Check here if attachments.

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corr	esponding information from	n Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, S 329 92nd Street	uite, and/or Bldg. No.) or P.C	. Route and Box No.	Policy Number:
City STONE HARBOR	State New Jersey	ZIP Code 08247	Company NAIC Number
SECTION	ON G - COMMUNITY INFOR	MATION (OPTIONAL)	
The local official who is authorized by law or or Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, er	rdinance to administer the co	mmunity's floodplain ma	nagement ordinance can complete below. Check the measurement
G1. A The information in Section C was tak engineer, or architect who is authoriz data in the Comments area below.)			
G2. A community official completed Sect or Zone AO.	ion E for a building located in	Zone A (without a FEM)	A-issued or community-issued BFE)
G3. The following information (Items G4-	-G10) is provided for commu	nity floodplain managem	ent purposes.
G4. Permit Number	G5. Date Permit Issued		Date Certificate of Compliance/Occupancy Issued
77-1204	09/23/22		le-16-23
G7. This permit has been issued for:	, New Construction ☐ Subs	stantial Improvement	
G8. Elevation of as-built lowest floor (including of the building:	g basement) 14.2	feet	□ meters Datum NAND 88
G9. BFE or (in Zone AO) depth of flooding at	the building site: AE	<u>9</u>	meters Datum NAND 87
G10. Community's design flood elevation:	Higher of BFE:	⊢2∘r∐ ⊠feet	meters Datum NAVD 88
	Title struction officia	1 / Flood Plain	Administrator
Community Name Showe Harbor	Tele 609- 368	ephone -6814	
Signature / / / / / / / / / / / / / / / / / / /	6/12/	∍ → 3	
Comments (including type of equipment and loc	cation, per C2(e), if applicable	2)	
			Check here if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

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 Ap 329 92nd Street	t., Unit, Suite, and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:
City STONE HARBOR	State New Jersey	ZIP Code 08247	Company NAIC Number

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.

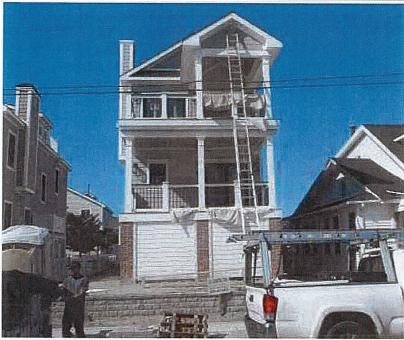


Photo One

Photo One Caption FRONT VIEW

Clear Photo One

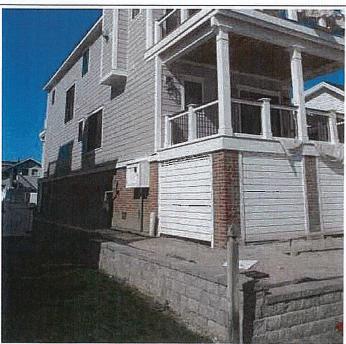


Photo Two

Photo Two Caption LEFT SIDE VIEW

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy	y the corresponding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Ap 329 92nd Street	ot., Unit, Suite, and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:
City	State	ZIP Code	Company NAIC Number
STONE HARBOR	New Jersey	08247	

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

Photo Three Caption REAR VIEW

Clear Photo Three



Photo Fou

Photo Four Caption RIGHT SIDE VIEW

Clear Photo Four



ICC-ES Evaluation Report

ESR-2074

Raissuad February 2021

This report is subject to renewal February 2023.

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A Subsidiary of the International Code Council®

DIVISION: 08 80 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-\$114-51-50-70; \$1550-71-51-528; \$1540-514 \$10.0000 VENT SEALING STEELS \$1540-514

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)†

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 USE9

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 forced.

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 complete the engineered opening requirement of ASCE/SEI II., Smart Vent FVs must be installed in accordance with Section 4.0.

3.3 Ventiletion:

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 sinclosed 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.

- Selow 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 Vant 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 i/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 dismartives to what is specified in; those codes listed in Section 1.0 of this report, subject to the following conditions:

3.1 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

- 5.1 Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015 (editorially revised October 2017).
- 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 ORIVE, UNIT.
FITMAN, NEW JERSEY 08073
(877) 441-6308
www.smartvent.com
info@smartvent.com

TABLE 1-MODEL SIZES

MODEL WAS	MODEL NUMBER MODEL SIZE (in.)		COVERAGE (sq. ft.)	
FloodVENT®	1540-520	15 ³ / ₄ " X 7 ³ / 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 8 ³ / 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 St: 1 Inch = 25.4 mm; † square foot = m2

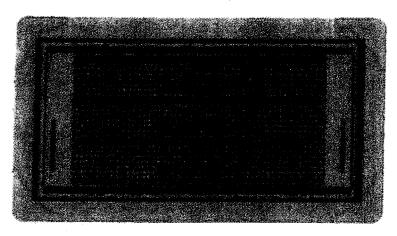


FIGURE 1-SMART VERT: MODEL 1540-510

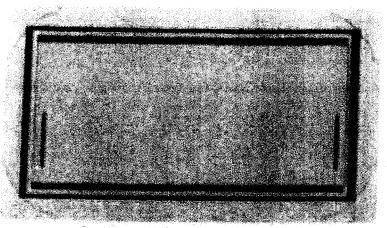


FIGURE 2-SMART VENT MODEL 1549-520

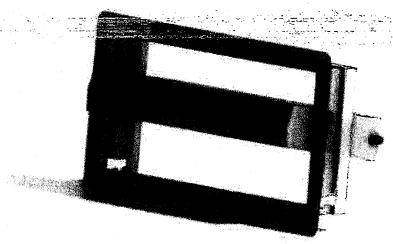


FIGURE 3—SMART YENT: SHOWN WITH FLOOD COOR PINOTED OPEN

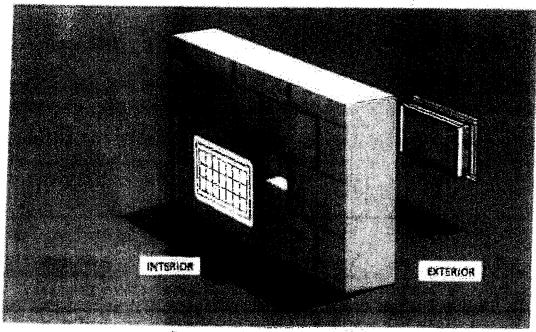


FIGURE 4-FLOOD VENT SEALING KIT



ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

Roissund February 2021

This report is subject to renewal February 2023.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00 CPENNIGS

Section: 08 95 43—Vents/Foundation Floor Vents

REPORT HOLDER:

SMART YENT PRODUCTS, INC.

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENT8: MODELS \$15/0-520; \$1540-521; \$1540-510; \$1540-511; \$1540-511; \$1540-510; \$1540-521; \$1

THE PROPERTY OF THE PROPERTY O

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 edition:

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

2.0 COMCLUSIONS

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 2016 CBC Chapter 12, provided the design and installation are in accordance with the 2015 *International Building Code®* (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 12, 16 and 16A, as applicable.

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 2016 CRC, provided the design and installation are in accordance with the 2015 International Residential Code® (IRC) provisions noted in the evaluation report.

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





ICC-ES Evaluation Report

ESR-2074 FBC Supplement

Reissuad Fabruary 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 YENT® AUTORIATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1340-574; #1540-524; #1540-514 PLOOD VENT SEALPIC KIT MALESTE

TO MEPORT PURPOSE AND SCORE

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:

- 🥦 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 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 evaluation 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 Flonda 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.

