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.

		CTION A - PROPERT	Y INFOR	RMATION		FOR INSU	RANCE COMPANY USE
A1. Building Own Jennifer Stacey Be		and Jennifer Stacey B	Beasley 1	RE		Policy Nun	nber:
A2. Building Stree Box No. 41 181st Avenue V		ncluding Apt., Unit, Sui	ite, and/	or Bldg. No.)	or P.O. Route and	Company f	NAIC Number:
City Redington Sho				State Florida		ZIP Code 33708	
A3. Property Desc Lot 6, Revised Pla	ription (Lot a t of Surfside	and Block Numbers, T Cabana Club, Plat Bo	ax Parce ok 22, P	el Number, Le age 25, Parc	gal Description, e el #31-30-15-8854	tc.) 2-000-0060	
A4. Building Use (e.g., Reside	ntial, Non-Residential,	Addition	n, Accessory,	etc.) Residenti	al	
A5. Latitude/Longi	itude: Lat 2	27 49' 56.06" N.	Long. 8	32 50' 00.95"	W. Horizonta	al Datum: NAD	1927 X NAD 1983
A6. Attach at least	t 2 photograp	phs of the building if th	e Certifi	cate is being			
A7. Building Diagra	am Number	1A					
A8. For a building	with a crawls	space or enclosure(s):					
a) Square foo	tage of craw	dispace or enclosure(s))		496.00 sq ft		
b) Number of	permanent fl	ood openings in the cr	awispac	e or enclosur	e(s) within 1.0 foo	t above adjacent gra	ade 4
c) Total net ar	ea of flood o	penings in A8.b		1000.00 sq ir	1		
d) Engineered	l flood openii	ngs? 🛛 Yes 🔲 1	No				
A9. For a building v	vith an attacl	hed garage:					
a) Square foot	age of attach	ned garage		0.00 sq ff			
b) Number of p	permanent fle	ood openings in the at	tached g	arage within	1.0 foot above adi	acent grade N/A	
		penings in A9.b		0.00 sq			
d) Engineered flood openings? Yes No							
· · · · · · · · · · · · · · · · · · ·	-)						
		ECTION B - FLOOD I	INSURA			ORMATION	
B1. NFIP Communi Town of Redington	Shores 125	Community Number 141		B2. County Pinellas	Name		B3. State Florida
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	RM Panel ective/ vised Date	B8. Flood Zone(s)	B9. Base Flood Ei (Zone AO, use	levation(s) Base Flood Depth)
12103C0179	Н	08-24-2021	08-24-2		AE	10.0 feet	
B10. Indicate the se	ource of the	Base Flood Elevation	(BFE) da	ata or base flo	ood depth entered	in Item B9:	
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other/Source:							
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source:							
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No							
Designation Date: CBRS OPA							
*							

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspond	ding information from S	ection A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, an 41 181st Avenue W.	nd/or Bldg. No.) or P.O. R	oute and Box No.	Policy Number:
City Redington Shores		P Code 708	Company NAIC Number
SECTION C - BUILDING	ELEVATION INFORM	ATION (SURVEY RE	EQUIRED)
	uction Drawings* Been construction of the building. FE), VE, V1–V30, V (with building diagram specified tes" Vertical Datur in items a) through h) beener/Source: same as that used for the wispace, or enclosure floor mber (V Zones only) servicing the building Comments) ding (LAG) ding (HAG)	uilding Under Constru ding is complete. BFE), AR, AR/A, AR/, d in Item A7. In Puerton: PID AG0831, NAVI ow.	Finished Construction AE, AR/A1–A30, AR/AH, AR/AO. o Rico only, enter meters.
structural support	deck of stairs, including		5.3 🔀 feet 🗌 meters
SECTION D - SURVEYO			
This certification is to be signed and sealed by a land I certify that the information on this Certificate represe statement may be punishable by fine or imprisonment Were latitude and longitude in Section A provided by	tunder ro o.s. code, se	cuon 1001.	law to certify elevation information. ble. I understand that any false Check here if attachments.
Certifier's Name Donald E. Armstrong Jr.	License Number 5083		G 1
Title Owner/Manager Company Name Don Armstrong Land Surveying, LLC Address 2187 N. Green Ridge Place City Palm Harbor Signature Copy all pages of this Elevation Certificate and all attach Comments (including type of equipment and location, C2(e) is an Air Conditioner Compressor on a raised de	per C2(e), if applicable)		Ext. Sent/company, and (3) building owner.

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspondi	ng information from	Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and 41 181st Avenue W.			Policy Number:
	tate Z	IP Code	Company NAIC Number
Redington Shores F	lorida 3	3708	
SECTION E – BUILDING ELE FOR ZONE	VATION INFORMAT AO AND ZONE A (V	TION (SURVEY NOT NITHOUT 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 tural grade, if available	s intended to support a e. Check the measure	a LOMA or LOMR-F request, ment used. In Puerto Rico only,
E1. Provide elevation information for the following and of the highest adjacent grade (HAG) and the lowest grade (HAG) and the lo	check the appropriate I djacent grade (LAG).	poxes to show whether	er 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	rs above or below the HAG.
crawlspace, or enclosure) is		feet meter	
E2. For Building Diagrams 6–9 with permanent flood op the next higher floor (elevation C2.b in the diagrams) of the building is	enings provided in Sed		
E3. Attached garage (top of slab) is		feet meter	
•		feet meter	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 floodplain management ordinance? Yes	is the top of the botto No Unknown. T	m floor elevated in ac	
SECTION F - PROPERTY OWN	ER (OR OWNER'S RE	PRESENTATIVE) CE	RTIFICATION
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	who completes Section	one A B and E for Zo	no A (without a EEMA issued as
Property Owner or Owner's Authorized Representative's			
Address	City	Sta	ate ZIP Code
Signature	Date	Tel	ephone
Comments			
•			
			1
			1
			Check here if attachments.

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corr	responding information fron	Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, S 41 181st Avenue W.	suite, and/or Bldg. No.) or P.O	Route and Box No.	Policy Number:
City Redington Shores	State Florida	ZIP Code 33708	Company NAIC Number
SECTION	ON G - COMMUNITY INFOR	MATION (OPTIONAL)	
The local official who is authorized by law or of Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, er	Certificate. Complete the app	nmunity's floodplain ma plicable item(s) and sigr	nagement ordinance can complete below. Check the measurement
G1. The information in Section C was takengineer, or architect who is authorized ata in the Comments area below.)	cen from other documentation ced by law to certify elevation	that has been signed a information. (Indicate th	nd sealed by a licensed surveyor, e source and date of the elevation
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 commun	ity floodplain managem	ent purposes.
G4. Permit Number	G5. Date Permit Issued		Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction Subst	antial Improvement	
G8. Elevation of as-built lowest floor (including of the building:	g basement)	feet	meters Datum
G9. BFE or (in Zone AO) depth of flooding at	the building site:	feet	meters Datum
G10. Community's design flood elevation:		feet	meters Datum
Local Official's Name	Title		
Community Name	Tele	phone	
Signature	Date		
Comments (including type of equipment and loc	cation, per C2(e), if applicable		
			Check here if attachments.

ELEVATION CERTIFICATE

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, cop	FOR INSURANCE COMPANY USE		
Building Street Address (including A 41 181st Avenue W.	Policy Number:		
City	State	ZIP Code	Company NAIC Number
Redington Shores	Florida	33708	

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.

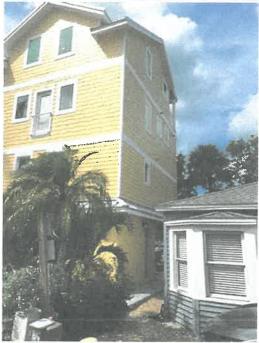


Photo One

Photo One Caption S.E. Side 10/19/2023

Clear Photo One

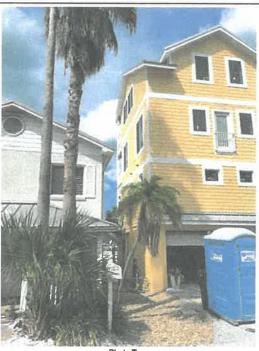


Photo Two

Photo Two Caption S.W. Side 10/19/2023

Clear Photo Two

ELEVATION CERTIFICATE

Continuation Page

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

IMPORTANT: In these spaces, cor	FOR INSURANCE COMPANY USE		
Building Street Address (including A 41 181st Avenue W.	Policy Number:		
City	State	ZIP Code	Company NAIC Number
Redington Shores	Florida	33708	Tompany in an inamon

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 Inside Vent 10/19/2023

Clear Photo Three



Photo Four

Photo Four Caption Outside Vent 10/19/2023

Clear Photo Four

ELEVATION CERTIFICATE

See Instructions for Item A6.

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

IMPORTANT: in these spaces, copy	FOR INSURANCE COMPANY USE Policy Number:		
Building Street Address (including Ap 41 181st Avenue W.			
City Redington Shores	State Florida	ZIP Code 33708	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 Outside Vent 10/31/2023

Clear Photo One



Photo Two

Photo Two Caption Outside Vent 10/31/2023

Clear Photo Two

ELEVATION CERTIFICATE

Continuation Page

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

IMPORTANT: In these spaces, copy the o	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit 41 181st Avenue W.			Policy Number:
City Redington Shores	State Florida	ZIP Code 33708	Company NAIC Number

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 Inside Vent 10/31/2023

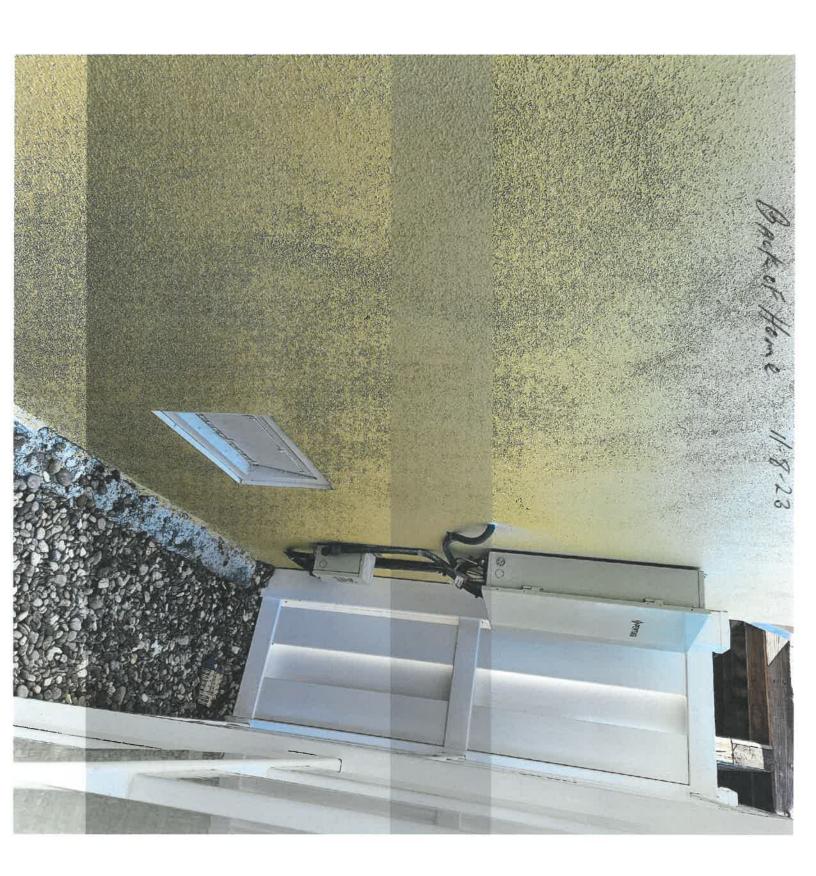
Clear Photo Three



Photo Four

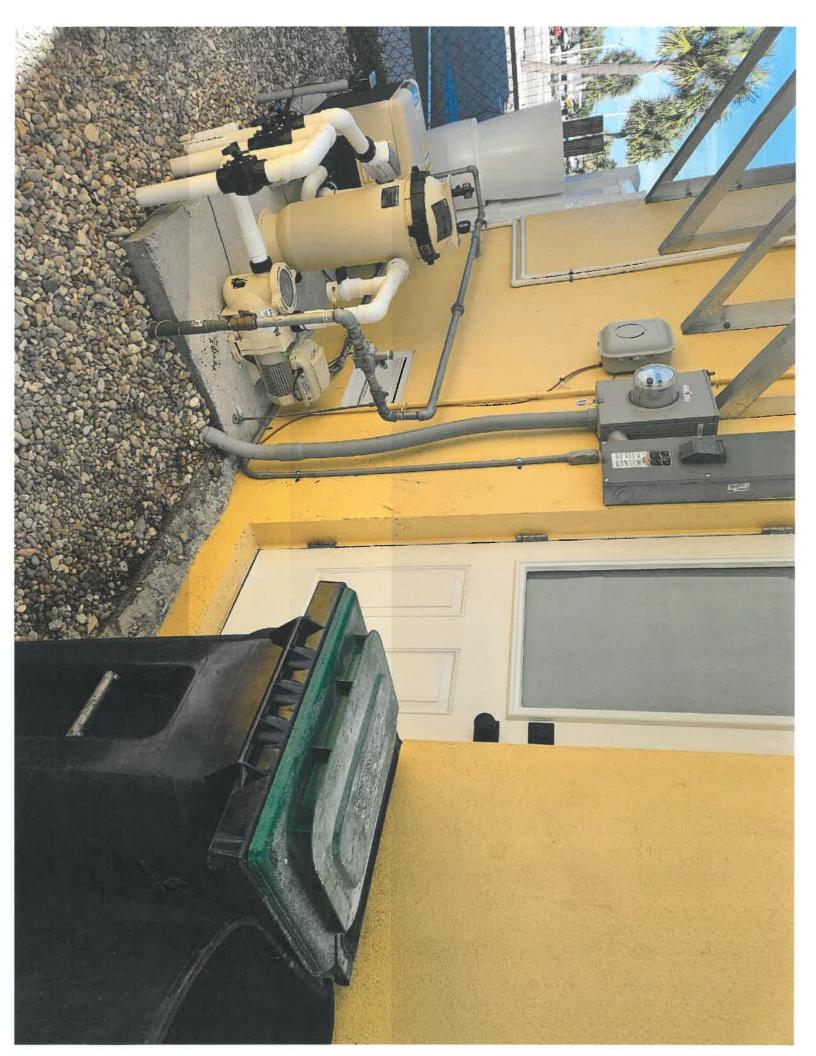
Photo Four Caption Inside Vent 10/31/2023

Clear Photo Four

















Reissued March 2022

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This report is subject to renewal March 2024.

ICC-ES Evaluation Report

ESR-4332

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43-Vents / Foundation Flood Vents

REPORT HOLDER:

SMART PRODUCT INNOVATIONS, INC.

EVALUATION SUBJECT:

FREEDOM FLOOD VENT™ AUTOMATIC FOUNDATION FLOOD VENT: MODEL FFV-1608

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)

Properties evaluated:

- Physical operation
- Water flow
- Weathering

2.0 **USES**

The model FFV-1608 Freedom Flood Vent™ is used to equalize hydrostatic pressure on walls of enclosures subject to rising or falling floodwaters. With the cover removed, the model FFV-1608 also provides natural air ventilation.

3.0 DESCRIPTION

3.1 General:

The model FFV-1608 Freedom Flood Vent[™] is an engineered mechanically operated in-wall flood vent (FV) that automatically allows floodwater to enter an enclosed area and exit. The FV is comprised of a polycarbonate frame with mounting flange and a polycarbonate horizontally pivoting door. When subjected to rising water, the model FFV-1608 Freedom Flood Vent[™] door is activated and pivots to allow water and debris to flow in either direction to equalize hydrostatic pressure from one side of the enclosure to the other. The FV features a removable polycarbonate cover. The FV door will activate and pivot when subjected to rising water with or without the polycarbonate cover installed.

3.2 Engineered Opening:

The FV complies with the design principle noted in Section 2.7.2.2 and Section 2.7.3 of ASCE/ SEI 24-14 (2021, 2018 and 2015 IBC and IRC) [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, Freedom Flood Vent™ FVs must be installed in accordance with Section 4.0 below. See Table 1 for vent size and maximum allowable area coverage for a single vent.

4.0 DESIGN AND INSTALLATION

The model FFV-1608 Freedom Flood Vent™ is designed to be installed into walls or overhead doors of existing or new construction. Installation of the vent must be in accordance with the manufacturer's instructions, the applicable code, and this report. In order to comply with the engineered opening design principle noted in Sections 2.7.2.2 and 2.7.3 of ASCE/ SEI 24-14 (2021, 2018 and 2015 IBC and IRC) [Section 2.6.2.2 of ASCE/ SEI 24-05 (2012, 2009, 2006 IBC and IRC)], the Freedom Flood Vent™ 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 250 square feet (23.2 m²) of enclosed area.
- Below the base flood elevation.
- With the bottom of the vent located a maximum of 12 inches (305.4 mm) above the higher of the final interior grade or floor and the finished exterior grade immediately under each opening.

5.0 CONDITIONS OF USE

The Freedom Flood Vent[™] described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The model FFV-1608 Freedom Flood Vent™ unit must be installed in accordance with this report, the applicable code and the manufacturer's published installation instructions. In the event of a conflict, the instructions in this report shall govern.
- 5.2 The model FFV-1608 Freedom Flood Vent™ unit must not be used in place of "breakaway walls" in coastal



high hazard areas, but are permitted for use in conjunction with breakaway walls in other areas.

5.3 Use of the Freedom Flood Vent as under-floor space ventilation is outside the scope of this report.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015 (editorially revised February 2021).

7.0 IDENTIFICATION

7.1 The Freedom Flood Vent™ model described in this report must be identified by a label bearing the manufacturer's name (Smart Product Innovations, Inc.) and the evaluation report number (ESR-4332).

7.2 The report holder's contact information is the following:

SMART PRODUCT INNOVATIONS, INC. 430 ANDBRO DRIVE, UNIT 1
PITMAN, NEW JERSEY 08071
(800) 507-1527
www.freedomfloodvent.com
info@freedomfloodvent.co

TABLE 1—FREEDOM FLOOD VENT™

MODEL NAME	MODEL NUMBER	MODEL SIZE	COVERAGE (sq. ft.)
Freedom Flood Vent™	FFV-1608	15 ³ / ₄ " X 8 ¹ / ₁₆ "	250

For SI: 1 inch = 25.4 mm

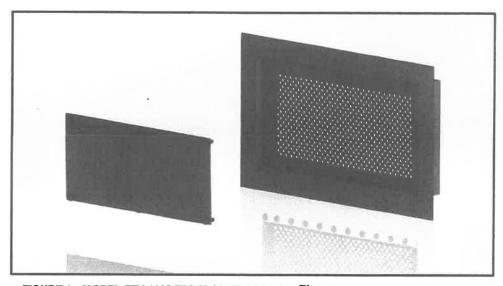


FIGURE 1—MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH COVER REMOVED

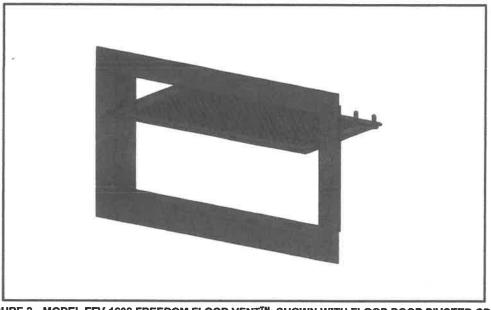


FIGURE 2-MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH FLOOD DOOR PIVOTED OPEN



ICC-ES Evaluation Report

ESR-4332 CBC and CRC Supplement

Reissued March 2022

This report is subject to renewal March 2024.

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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 PRODUCT INNOVATIONS, INC.

EVALUATION SUBJECT:

FREEDOM FLOOD VENT™ AUTOMATIC FOUNDATION FLOOD VENT: MODEL FFV-1608

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Freedom Flood Vent[™] Automatic Foundation Flood Vent: Model FFV-1608, described in ICC-ES evaluation report ESR-4332, has 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 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 Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in Sections 2.0 through 7.0 of the evaluation report ESR-4332, complies with 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.
- 2.1.2 DSA: The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in Sections 2.0 through 7.0 of the evaluation report ESR-4332, complies 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 March 2022.





ICC-ES Evaluation Report

ESR-4332 FBC Supplement

Reissued March 2022
This report is subject to renewal March 2024.

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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 PRODUCT INNOVATIONS, INC.

EVALUATION SUBJECT:

FREEDOM FLOOD VENT™ AUTOMATIC FOUNDATION FLOOD VENT: MODEL FFV-1608

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in ICC-ES evaluation report ESR-4332, has 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 Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in Sections 2.0 through 7.0 of the evaluation report ESR-4332, complies with the *Florida Building Code—Building* and the *Florida Building Code—Building Code—Building Code—Building Code—Building Code—Building and the Florida Building Code—Building and the Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-4332 for the 2018 *International Building Code®* (IBC) meet the requirements of *Florida Building Code—Building* and the *Florida Building Code—Residential*, as applicable.

Use of the Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608 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 March 2022.

