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, Su 1390 Bayshore Drive					
City Englewood	State ZIP Code Florida 34223	Company NAIC Number			
SECTIO	N G - COMMUNITY INFORMATION (OPTI	ONAL)			
The local official who is authorized by law or ord Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, ent	Certificate. Complete the applicable item(s)	olain management ordinance can complete and sign below. Check the measurement			
engineer, or architect who is authorize data in the Comments area below.)	en from other documentation that has been sed by law to certify elevation information. (Ind	dicate 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 (withou	t a FEMA-issued or community-issued BFE)			
G3. The following information (Items G4–	G10) is provided for community floodplain m	anagement purposes.			
G4. Permit Number 21-120094 B1	G5. Date Permit Issued	G6. Date Certificate of Compliance/Occupancy Issued			
	New Construction Substantial Improver	nent			
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 the	he building site:	feet meters Datum			
G10. Community's design flood elevation:		feet meters Datum			
Local Official's Name	Title				
Community Name	Telephone				
Signature	Date				
Comments (including type of equipment and location, per C2(e), if applicable)					
t e					
		☐ Check here if attachments.			

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.

				FOR INSUF	RANCE COMPANY USE	
A1. Building Owner's Name			Policy Num	ber:		
Matthew A. Smith						
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.					Company N	AIC Number:
1390 Bayshore Drive						
City		· · · · · · · · · · · · · · · · · · ·	State		ZIP Code	
Englewood			Florida		34223	
A3. Property Description (L Lot 851, Englewood Ga		ax Parce	Number, Le	gal Description, et	c.)	
A4. Building Use (e.g., Res	dential, Non-Residential,	Addition	, Accessory,	etc.) Residentia	al	
A5. Latitude/Longitude: La	t. N.26*-59'-42.1"	Long. V	V.82*-23'-22.1	" Horizonta	I Datum: NAD 1	927 🔀 NAD 1983
A6. Attach at least 2 photog		_				
A7. Building Diagram Numb						
A8. For a building with a cra						
Ī	awlspace or enclosure(s)			N/A sq ft		
	•	-			shove adipoent are	ado N/A
	t flood openings in the cr				above adjacent gra	IVA
	d openings in A8.b		N/A sq ir	1		
d) Engineered flood op	enings? 🗌 Yes 🔲 1	10				
A9. For a building with an at						
a) Square footage of at	ached garage		789.00 sq ft			
b) Number of permaner	t flood openings in the at	tached g	arage within	1.0 foot above adj	acent grade 4	
c) Total net area of floo	d openings in A9.b		1000.00 sq	in		
d) Engineered flood ope						
	90. [2]					
	SECTION B - FLOOD	INSURA	NCE RATE	MAP (FIRM) INF	ORMATION	
B1. NFIP Community Name	& Community Number	•	B2. County	Name		B3. State
Sarasota County 128	5144			Sarasota		Florida
B4. Map/Panel B5. Suf Number	B6. FIRM Index Date	Effe	RM Panel ective/	B8. Flood Zone(s)	B9. Base Flood E (Zone AO, use	levation(s) e Base Flood Depth)
12115C0432 F	11-04-2016	11-04-2	vised Date 2016	AE-AE	11.0'-12.	0'
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood 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:	Designation Date: CBRS OPA					

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspondir	FOR INSURANCE COMPANY USE				
1390 Bayshore Drive				Policy Number:	
,	ate ZIF orida 342	Code 223	Company N	AIC Number	
SECTION C – BUILDING E	LEVATION INFORMA	TION (SURVEY RE	EQUIRED)		
C1. Building elevations are based on: Construct *A new Elevation Certificate will be required when C2. Elevations – Zones A1–A30, AE, AH, A (with BFE)	construction of the build			Finished Construction	
Complete Items C2.a–h below according to the bu Benchmark Utilized: N.G.S. Y-734 2009	ilding diagram specified Vertical Datum	in Item A7. In Puert : N.A.V.D. 1988	o Rico only, e	enter meters.	
Indicate elevation datum used for the elevations in ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other	/Source:				
Datum used for building elevations must be the sa	me as that used for the	BFE.	Check th	e measurement used.	
a) Top of bottom floor (including basement, crawled)	space, or enclosure floo	-)	13.5 X f	feet meters	
b) Top of the next higher floor		,	N/A 🔲 f	feet meters	
c) Bottom of the lowest horizontal structural memi	oor (V. Zonos only)	1	N/A f	eet meters	
d) Attached garage (top of slab)	Del (V Zolles offly)			feet meters	
e) Lowest elevation of machinery or equipment se (Describe type of equipment and location in Co	ervicing the building		13.4 × f	feet meters	
A characteristic section of the sect	20000000000000000000000000000000000000	×	10.9 X f	feet meters	
f) Lowest adjacent (finished) grade next to buildin		-		feet meters	
g) Highest adjacent (finished) grade next to buildi				eet meters	
 h) Lowest adjacent grade at lowest elevation of de structural support 	eck or stairs, including		N/A [] f	feet meters	
SECTION D – SURVEYOR	R, ENGINEER, OR AR	CHITECT CERTIFI	ICATION		
This certification is to be signed and sealed by a land s I certify that the information on this Certificate represen- statement may be punishable by fine or imprisonment	ts my best efforts to inte	rpret the data availa	law to certify able. I underst	elevation information. and that any false	
Were latitude and longitude in Section A provided by a	licensed land surveyor?	☐ Yes ☒ No	Check	k here if attachments.	
Certifier's Name	License Number				
Jerome R. McLeod	5525			MER. MC	
Title Professional Surveyor and Mapper				ME R. MC	
Company Name DMK Associates Inc.				Seal	
Address 2861 Placida Road, Unit A			Profess	State of Florida Surveyor and Manager	
City Englewood	State Florida	ZIP Code 34224		30/ Surveyor and	
Signature	Date 11-07-2022	Telephone (941) 475-6596	Ext.		
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) The Lat. and Long. Coordinates were determined by a W.A.A.S. enabled hand held GPS unit. C2-E, represents the outside A/C unit. Engineered openings manufactured by Smart Product innovations, Inc., model number FFV-1608 Freedom Flood Vent, ICC-ES Report No. ESR-4332 (attached). Rated 250 square inches per unit.					
DMK File No. 21-0003 F.B. 22-13 Pg. 1					

ELEVATION CERTIFICATE

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

IMP	ORTANT: In these spaces, copy the correspondi	FOR INSURANCE COMPANY USE			
Bui	ding Street Address (including Apt., Unit, Suite, and 1390 Bayshore Drive	/or Bldg. No.) or P	O.O. Route and Box No.	Policy Number:	
City En		State Florida	ZIP Code 34223	Company NAIC Number	
	SECTION E – BUILDING ELI FOR ZONE		MATION (SURVEY NOT A (WITHOUT BFE)	REQUIRED)	
con	For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B,and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.				
E1.	Provide elevation information for the following and the highest adjacent grade (HAG) and the lowest a a) Top of bottom floor (including basement,	check the appropr djacent grade (LA	iate boxes to show whether G).	er the elevation is above or below	
	crawlspace, or enclosure) is			rs 🔲 above or 🔲 below the HAG.	
	 Top of bottom floor (including basement, crawlspace, or enclosure) is 		[] feet [] mete	rs 🔲 above or 🔲 below the LAG.	
E2.	For Building Diagrams 6-9 with permanent flood op	oenings provided i	n Section A Items 8 and/or	r 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 floodplain management ordinance? Yes	e, is the top of the No	bottom floor elevated in ac n. The local official must	ccordance with the community's certify this information in Section G.	
	SECTION F - PROPERTY OWN	IER (OR OWNER	'S REPRESENTATIVE) C	ERTIFICATION	
The com	property owner or owner's authorized representativ munity-issued BFE) or Zone AO must sign here. Th	e who completes the statements in Scientific Science (Sections A, B, and E for Zo ections A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.	
Pro	perty Owner or Owner's Authorized Representative's	s Name		,	
Add	ress	Ci	ty Si	tate ZIP Code	
Sig	nature	Da	ate Te	elephone	
Con	nments				
				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, co	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1390 Bayshore Drive			Policy Number:
City	State	ZIP Code	Company NAIC Number
Englewood	Florida	34223	

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 Taken 11/02/2022

Clear Photo One



Photo Two

Photo Two Caption

Right Side Taken 11/02/2022

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, of	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1390 Bayshore Drive			Policy Number:
City	State	ZIP Code	Company NAIC Number
Englewood	Florida	34223	

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 Taken 11/02/2022

Clear Photo Three



Photo Four

Photo Four Caption Left Side Taken 11/02/2022 Clear Photo Four



ICC-ES Evaluation Report

ESR-4332

Reissued March 2020

This report is subject to renewal March 2022.

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 PRODUCT INNOVATIONS, INC.

EVALUATION SUBJECT:

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

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)

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 (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 (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 October 2017).

7.0 IDENTIFICATION

7.1 The Freedom Flood Vent™ model recognized 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.com

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

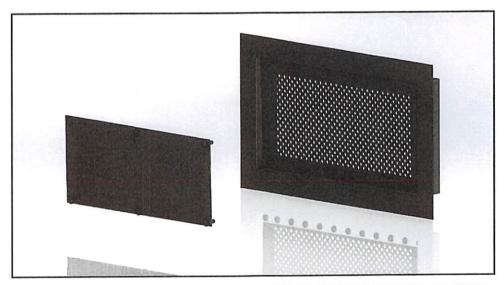


FIGURE 1—MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH COVER REMOVED

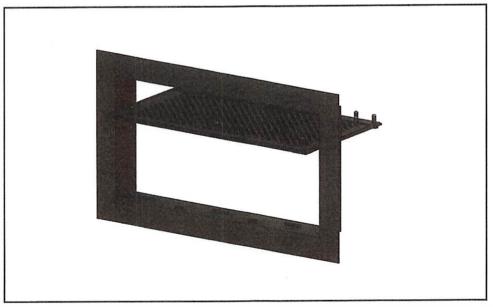


FIGURE 2—MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH FLOOD DOOR PIVOTED OPEN



ICC-ES Evaluation Report

ESR-4332 CBC and CRC Supplement

Reissued March 2020

This report is subject to renewal March 2022.

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 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, recognized in ICC-ES master evaluation report ESR-4332, has also been evaluated for compliance with codes noted below.

Applicable code edition(s):

- 2016 California Building Code (CBC)
- 2016 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 master evaluation report ESR-4332, complies with CBC Chapters 12, 16 and 16A, provided the design and installation are in accordance with the 2015 International Building Code® (2015 IBC) provisions noted in the master report and the additional requirements of 12, 16, and 16A, as applicable.

The product recognized in this supplement has not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.2 CRC:

The Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in Sections 2.0 through 7.0 of the master evaluation report ESR-4332, complies with the 2016 CRC, provided the design and installation are in accordance with the 2015 International Residential Code® (2015 IRC) provisions noted in the master report.

The product recognized in this supplement has not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The product recognized in this supplement has not been evaluated for compliance with the International Wildland-Urban Interface Code®.

This supplement expires concurrently with the evaluation report, reissued March 2020.



ICC-ES Evaluation Report

ESR-4332 FBC Supplement

Reissued March 2020 This report is subject to renewal March 2022.

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 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, recognized in ICC-ES master evaluation report ESR-4332, has 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 Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in Sections 2.0 through 7.0 of the master evaluation report ESR-4332, complies with the *Florida Building Code—Building* and the *Florida Building Code—Residential*, provided the design and installation are in accordance with the *International Building Code®* (IBC) provisions noted in the master report.

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 9N-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official, when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the evaluation report, reissued March 2020.

