Horry County Government

Code Enforcement Department www.horrycounty.org



142740-

Horry County Government & Justice Center 1301 Second Avenue / Suite 1D09 Conway, South Carolina 29526 Phone 843.915.5090 || Fax 843.915.6090 141 Jackson View place

MEMO OF REVIEW FOR CORRECTNESS AND COMPLETION

raccordance with this community's participation in the National Flood Insurance Program's Community Rating ystem, all FEMA Elevation Certificates must be correct and complete. The attached Certificate has some incorrect ams which are noted here.

SECTION A - PROPERTY INFORMATION	For Insurance Company Use:
A1. Building Owner's Name	Policy Number
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.	Company NAIC Number
City State ZIP Code	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)	
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number A8. For a building with a crawl-space or enclosure(s), provide A9. For a building with an attached a) Square footage of crawl space or enclosure(s) Square footage of crawl space or enclosure(s)	
enclosure(s) walls within 1.0 foot above adjacent grade walls within 1.0 foot a c) Total net area of flood openings in A8.b sq in c) Total net area of flood openings?	d openings in A9.b sq in
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATIO	ON
B1_NFIP Community Name & Community Number B2. County Name Hory Canty 450104	B3. State
B4. Map/Panel Number B5. Suffix B6. FIRM Index B7. FIRM Panel B8. Flood Date Effective/Revised Date Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
O. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. ☐ FIS Profile ☐ FIRM ☐ Community Determined ☐ Other (Describe)	 Yes
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUI	IRED)
Building elevations are based on: Construction Drawings* Building Under Construction* *A new Elevation Certificate will be required when construction of the building is complete. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AI Items C2.a-h below according to the building diagram specified in Item A7. Benchmark Utilized	
OMMENTS:	
ate of Review: 7-18-23 Community Official:	

U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

P# 142 740 11-15-22 P5.31 Proc# 218150

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

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

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

ny all nages of this E	levation Certi	ficate and all attachme	ute tot (() community	onicial, (2) mades	toc agains company,	
SECTION A - PROPERTY IN CHARACTER					FUR INSURA	NCE COMPANY OOL	
A1. Building Owner's Name					Policy Number	r:	
Dreamy Properties 1	LC						
A2 Building Street Box No.	Address (inclu	uding Apt., Unit, Suite,	and/or l	3ldg. No.) or l	P.O. Route and	Company NA	C Number:
141 Jackson View F	lace			State		ZIP Code	
City				South Car	olina	29588	
Myrtle Beach		Block Numbers, Tax	Parcel I)	
A3. Property Descr Lot 5 Peachtree Est	ption (Lot and	3 BIOCK (401/10013, 10A	, 13100, 1		·		
Lot 5 Peachtree Est	ales, Filter	100-00-00-00-10	م ما دا ادا	Accessory of	c) Residential		
		al, Non-Residential, A	0010UN, 1	Accessory, ex	ta-in-add	Datum: NAD 19	27 NAD 1983
A5. Latitude/Longit	ude: Lat. <u>33-</u>						21 231010 1111
		s of the building if the	Certifica	te is being us	ed to obtain flood	insurance.	
A7 Building Diagra							
A8. For a building	vith a crawlsp	ace or enclosure(s):			•		
a) Square foo	age of crawls	pace or enclosure(s)		12	28.00 sq ft	4	ś
h) Number of t	ermanent flor	od openings in the cra	wispace	or enclosure	s) within 1.0 foot	above adjacent grad	10 5
c) Total net ar	ea of flood op	enings in A8.b	1	250.00 sq in			
d) Engineered	flood opening	gs? 🖾 Yes 🗌 N	0				
A9. For a building	vith an attach	ed garage:					
a) Souare foo	age of attach	ed garage		N/A sq ft			
b) Number of	permanent fic	od openings in the att	ached g	arage within 1	0 foot above adj	acent grade N/A	
c) Total net a	ea of flood op	enings in A9.b		N/A sq	in		
d) Engineered		gs? ☐ Yes ☐ N					
<u>,</u>	SE	CTION B - FLOOD I	NSURA	NCE RATE	MAP (FIRM) INF	ORMATION	<u> </u>
		Community Number		B2. County			B3. State
	ry County	45104		Horry			South Carolina
B4, Map/Panel	B5. Suffix	B6. FIRM Index Date	Eff	RM Panel ective/	B8, Flood Zone(s)	B9. Base Flood E (Zone AO, us	levation(s) e Base Flood Depth)
Number 45051C-0695	k	12-16-2021	Re 12-16-	vised Date 2021	AE	11	
·			L		<u></u>		
D40 Indicate the	source of the	Base Flood Elevation	(BFE) o	lata or base f	ood depth entered	d in Item B9:	
☐ FIS Pro	ile 🛛 FIRM	Community Deter	minea	Officeroo			
B11, Indicate ele	vation datum	used for BFE in Item (39: 🗍 1	4GVD 1929	X NAVD 1988	Other/Source:	
B12. Is the build	ing located in	a Coastal Barrier Res	ources S	System (CBR	3) area or Otherw	ise Protected Area (OPA)? ☐ Yes 🔯 No
			CBRS	□ OPA	KATA	\$ 108#	
				\	- dilipas	1 100 #	Form Page 1 o
l				e att acquirus	editions		, 51111 1 480 1

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

Replaces all previous editions.

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

4

a seconding information from Section A.			COMPANY USE
he corresponding information from Section A. Unit, Suite, and/or Bldg. No.) or P.O. Route and Box			
	Compat	W NAIC NU	mber
2/8/6	33,,,53	•	
South Calouite	VEV BENJIBE	D)	
C - BUILDING ELEVATION INFORMATION (SUR	Construction*	NZI Finishe	ed Construction
Construction Drawings* Building Under	CONSTRUCTION	573	
he required when construction of the building is comp-		A4 A30 A6	RIAH, ARIAO.
AH, A (with BFE), VE, V1-V30, V (with BFE), AR, Al according to the building diagram specified in Item A7.	R/A, AR/AE, AR/ In Puerto Rico 0	nly, enter n	neters
etwork Vertical Datum, NAVD 190			
or the elevations in items a) through h) below.			_ 1
/D 1988 TO Other/Source:			
one must be the same as that used for the BFE.	Ch	eck the mea	asurement used
Yes tilder as a second	6.0	∫ feet	meters
a basement, crawispace, or enclosure floor)			meters
		-	meters
	N/A		
ntal structural member (V 20/les 5/11/)	N/A	⊠ feet	meters
b)	16.5	⊠ feet	meters
	5,1	⊠ feet	meters
grade next to building (LAG)	5.6	🔀 feet	meters
coade next to building (FMC)	4178	SZI foot	meters
owest elevation of deck of stalle, mean			
	T CERTIFICATI	ON	
nd sealed by a land surveyor, engineer to interpret the s Cerbficate represents my best efforts to interpret the	data availeble. I 1	o certify ele understand Check he	that any false ere if attachments.
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State	Code		Jan 2
State ZIP (South Carolina 2958	- 1		John John Committee
State South Carolina 2958	phone f	XI.	DATE OF THE PARTY
State South Carolina 2958 Date Tele	phone i	OR# 25994	HIMTLE and (3) building owner
State South Carolina 2958 Date Tele 10-27-2022 (843 crificate and all attachments for (1) community official.	phone i	OR# 25994	HIMTLE and (3) building owner
State South Carolina 2958 Date Tele 10-27-2022 (843 etilicate and all attachments for (1) community official.	38 phone 8	iOB# 25994 nt/company	, and (3) building owner
State South Carolina 2958 Date Tele 10-27-2022 (843 etilicate and all attachments for (1) community official.	38 phone 8	iOB# 25994 nt/company	, and (3) building owner
State South Carolina 2958 Date Tele 10-27-2022 (843 crificate and all attachments for (1) community official.	38 phone 8	iOB# 25994 nt/company	, and (3) building owner
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State South Carolina 2958 Date Tele 10-27-2022 (843 etilicate and all attachments for (1) community official.	38 phone 8	iOB# 25994 nt/company	, and (3) building owner
	State South Carolina 29588 C - BUILDING ELEVATION INFORMATION (SUR Department) C - Construction Drawings* Building Under the prequired when construction of the building is compound to the building diagram specified in Item A7. Vertical Datum: NAVD 191 Vertical Datum: N	State SUP Code South Carolina 29588 C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRE CONSTRUCTION Drawings* Building Under Construction* Deserved when construction of the building is complete. AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/	State Suth Carolina 29588 C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) C - BUILDING ELEVATION (SURVEY REQUIRED) C -

ELEVATION CERTIFICATE

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

PORTANT: In these spaces, copy the corresponding	information from Sect	on A.		R INSURANCE	COMPANY USE
uilding Street Address (including Apt., Unit, Suite, and/or	Bidg. No.) or P.O. Rout	and Box No	Poli	cy Number:	
uilding Street Address (Including Apr., Ont., Osto, Os	3		[
State	e ZIP C	ode	Cor	npany NAIC No	ımber
	th Carolina 2958				
PROFICE CHILDING ELEV	ATION INFORMATION	(SURVEY	NOT REC	(UIRED)	
FOR ZONE A	O AND ZONE A (1411)	1001 DE E/			
or Zones AO and A (without BFE), complete Items E1-E omplete Sections A. B,and C. For Items E1-E4, use natu nter meters.	is grade, in a remaining				
 Provide elevation information for the following and ch the binnest adjacent grade (HAG) and the lowest adjacent. 	204.10 3 (
Top of bottom floor (Including basement, crawlspace, or enclosure) is					below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is					below the LAG.
2. For Building Diagrams 6-9 with permanent flood ope	nings provided in Sectio	n A Items 8 a	ind/or 9 (s	ee pages 1-2 d	it Instructions),
the next higher floor (elevation C2.b in the diagrams) of the building is		feet	meters	☐ above or ℓ	Tipelow rue LIVO:
3. Attached garage (top of slab) is		☐ feet ☐	meters	above or	below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is					below the HAG.
E5. Zone AO only: If no flood depth number is available, floodplain management ordinance? Yes I	is the top of the bottom to Unknown The	floor elevated local official	in accord must cert	lance with the d ify this informat	community's ion in Section G.
SECTION F - PROPERTY OWNE	R (OR OWNER'S REP	RESENTATIV	/E) CERT	IFICATION	
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's	statements in Sections Name	A, B, and E	ire correct	to the best of r	ny knowledge.
	City		State		ZIP Code
Address					
Signature	Date		Telep	none	
Comments					
				Check h	ere if attachment
					Form Page 3

ELEVATION CERTIFICATE

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

PORTANT: In these spaces, copy the corres	nonding Information fr	om Section A.	FOR INSURANCE COMPANY USE
PORTANT: In these spaces, copy the corres ullding Street Address (including Apt., Unit, Sui	te, and/or Bldg. No.) or P	O. Route and Box No.	Policy Number:
uilding Street Address (including Apr., Orin, San	to, and a second		
41 Jackson View Place	State	ZIP Code	Company NAIC Number
ity	South Carolina	29588	
lyrtle Beach	NG-COMMUNITY INFO	ORMATION (OPTIONA	L)
The local official who is authorized by law or ordinated in Items G8-G10. In Puerto Rico only, entire the information in Section C was take engineer, or architect who is authorized.	linance to administer the Certificate. Complete the er meters. en from other documentat d by law to certify elevati	community's floodplain applicable item(s) and item item item item item item item item	management ordinance can complete sign below. Check the measurement
 A community official completed section or Zone AO. The following information (Items G4– 			
33. [] The following water			
G4. Permit Number	G5. Date Permit Issued	1	66. Date Certificate of Compliance/Occupancy Issued
G1. Hills berring the season	New Construction S	Substantial Improvemen	ıt
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 melers Datum
G10. Community's design flood elevation:] feet
Local Official's Name		Title	
Community Name		Telephone	
		Date	
Signature			
Comments (including type of equipment and le	ocation, per C2(e). if appi	icable)	
			Check here if attachment
		120	Form Page 4

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

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

ELEVATION CERTIFICATE

IMPORTANT: In these spaces, copy the corresponding information from Section A. Building Street Address (including Apt., Unit, Suite, and/or Bidg. No.) or P.O. Route and Box No.

FOR INSURANCE COMPANY USE Policy Number:

141 Jackson View Place City Myrtle Beach

State South Carolina ZIP Code 29588

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.

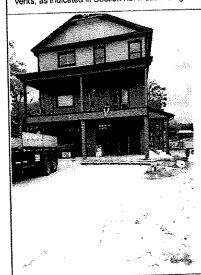


Photo One

Photo One Caption

Front

10-27-2022

#25994

Clear Photo One

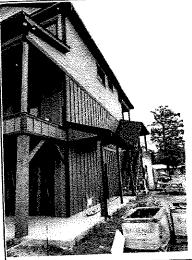


Photo Two Caption

Side

10-27-2022

#25994

Clear Photo Two

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

Replaces all previous editions.

Form Page 5 of 6

BUILDING PHOTOGRAPHS

Continuation Page

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

ELEVATION CERTIFICATE

IMPORTANT: in these spaces, copy the corresponding information from Section A. Building Street Address (including Apt., Unit, Suite, and/or Bidg. No.) or P.O. Route and Box No. 141 Jackson View Place

FOR INSURANCE COMPANY USE Policy Number:

City Myrtle Beach State South Carolina ZIP Code 29588

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.

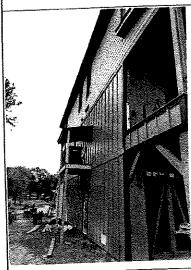


Photo Three Caption Side

10-27-2022

#25994

Clear Photo Three



Photo Four Caption

Rear

10-27-2022

#25994

Clear Photo Four

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

Replaces all previous editions.

Form Page 6 of 6



ESR-4332

Reissued March 2020 Revised May 2021

This report is subject to renewal March 2022.

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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 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

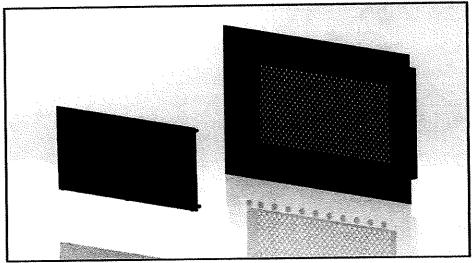


FIGURE 1-MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH COVER REMOVED

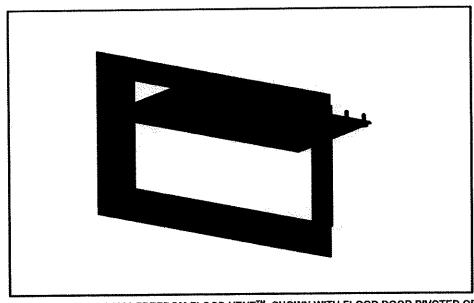


FIGURE 2-MODEL FFV-1608 FREEDOM FLOOD VENTTH: SHOWN WITH FLOOD DOOR PIVOTED OPEN



ESR-4332 CBC and CRC Supplement

Reissued March 2020 Revised May 2021 This report is subject to renewal March 2022.

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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 edition(s):

■ 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.
- DSA: The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement. 2.1.2

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 2020 and revised May 2021.





ESR-4332 FBC Supplement

Reissued March 2020 Revised May 2021 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 VENTTM 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—Residential, provided the design requirements are determined in accordance with 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 2020 and revised May 2021.



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

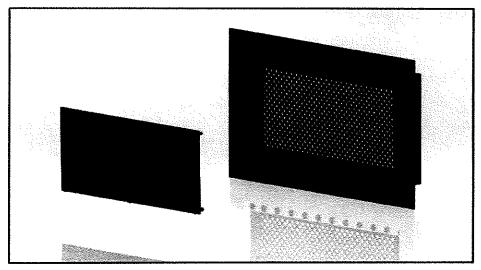


FIGURE 1—MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH COVER REMOVED

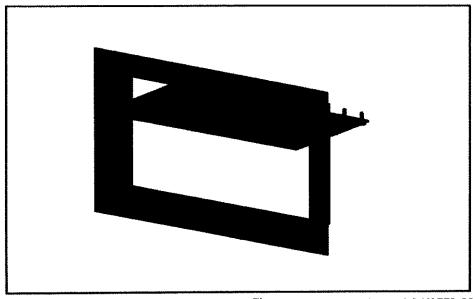


FIGURE 2-MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH FLOOD DOOR PIVOTED OPEN



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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.

