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

137515 Chr.slung

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.

	SEC1	ION A - PROPERTY	INFOR	MATION		FOR INSUF	RANCE COMPANY USE
A1. Building Owner's Name					Policy Num	ber:	
CK CARR BROTHER	RS 2, LLC						
A2. Building Street A Box No. 104 MARBLEHEAD I		luding Apt., Unit, Suit	te, and/o	r Bldg. No.) o	or P.O. Route and	Company N	IAIC Number:
City	J1117L			State		ZIP Code	
LITTLE RIVER				South C	400 CO	29566	
A3. Property Descrip UNIT 24 CAPE COD			x Parcel	Number, Le	gal Description, et	c.)	
A4. Building Use (e.g	g., Residen	tial, Non-Residential,	Addition	, Accessory,	etc.) RESIDEN	TIAL	
A5. Latitude/Longitude	de: Lat. 33	D51'09.072"	Long. 7	8D39'23.349'	' Horizonta	l Datum: NAD 1	927 × NAD 1983
A6. Attach at least 2	photograph	ns of the building if the	e Certific	ate is being	used to obtain floo	d insurance.	
A7. Building Diagram	Number	6					
A8. For a building with	th a crawls	pace or enclosure(s):					
a) Square footag	ge of crawls	space or enclosure(s)			896.00 sq ft		
b) Number of per	rmanent flo	od openings in the cr	awlspace	e or enclosur	e(s) within 1.0 foo	above adjacent gra	ade 4
c) Total net area	of flood op	enings in A8.b	1	1000.00 sq ir	1		
d) Engineered flo	ood openin	gs? ⊠ Yes □ N	No				
A9. For a building with	h an attach	ed garage:					
a) Square footag	e of attach	ed garage		N/A sq f	t		
		od openings in the at				acent grade N/A	
c) Total net area	of flood op	enings in A9.b		N/A so	in		
		gs? Yes N					
	SE	CTION B - FLOOD	INSURA	NCE RATE	MAP (FIRM) INF	ORMATION	
B1. NFIP Community		ommunity Number		B2. County			B3. State
HORRY COUNTY 45	0104			HORRY CO	DUNTY		South Carolina
B4. Map/Panel Number	35. Suffix	B6. FIRM Index Date	Effe	RM Panel ective/ vised Date	Zone(s) (Zone AO, use Base Flood Depth)		levation(s) e Base Flood Depth)
45051C0606	<	12-16-2021	12-16-2		AE	10	
B10. Indicate the sou	urce of the	Base Flood Elevation	(BFE) d	ata or base f	ood depth entered	in Item B9:	
☐ FIS Profile	⋉ FIRM	Community Deter	mined [Other/Sou	ırce:		
B11. Indicate elevati	on datum u	sed for BFE in Item E	89: 🗌 N	GVD 1929	NAVD 1988	Other/Source:	
B12. Is the building I	ocated in a	Coastal Barrier Reso	ources S	ystem (CBRS	s) area or Otherwis	se Protected Area (OPA)? ☐ Yes ⊠ No
Designation Da	ite: N/A	П	CBRS	☐ OPA			A TANKS
				2)/			

137515

ELEVATION CERTIFICATE

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

MPORTANT: In these spaces, copy the corresponding in Building Street Address (including Apt., Unit, Suite, and/or B 104 MARBLEHEAD DRIVE			_	NSURANC Number:	E COMPANY US
ity State ZIP Code TTLE RIVER South Carolina 29566			Company NAIC Number		
SECTION C - BUILDING ELEV	VATION INFORMAT	ION (SURVEY R	EQUIR	ED)	
C1. Building elevations are based on: Construction *A new Elevation Certificate will be required when con C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VI Complete Items C2.a–h below according to the buildir Benchmark Utilized: SC VRS	E, V1-V30, V (with BF	ng is complete. E), AR, AR/A, AR n Item A7. In Puer	VAE, AR	Z/A1-A30, A	
Indicate elevation datum used for the elevations in iter	ms a) through h) below	V.			
☐ NGVD 1929 区 NAVD 1988 ☐ Other/So					
Datum used for building elevations must be the same	as that used for the B	FE.	Ch	ack the me	asurement used.
a) Top of bottom floor (including basement, crawlspace	ce or enclosure floor)		10.4	x feet	meters
b) Top of the next higher floor	oo, or encrosure moory		20.9	⊠ feet	☐ meters
TO STATE OF THE PROPERTY OF TH	0/Zonos onto	(N/A	⊠ feet	meters
c) Bottom of the lowest horizontal structural member	(V Zones only)	7		★ feet	meters
d) Attached garage (top of slab)			N/A	[N] 1001	III meters
 e) Lowest elevation of machinery or equipment servic (Describe type of equipment and location in Comm 	cing the building lents)		14.3	× feet	meters
f) Lowest adjacent (finished) grade next to building (I			8.6	× feet	meters
g) Highest adjacent (finished) grade next to building (9.3	× feet	☐ meters
h) Lowest adjacent grade at lowest elevation of deck structural support			N/A	☐ feet	meters
SECTION D - SURVEYOR, E	NGINEER, OR ARC	HITECT CERTIF	ICATIO	N	
This certification is to be signed and sealed by a land surve certify that the information on this Certificate represents not attement may be punishable by fine or imprisonment under Nere latitude and longitude in Section A provided by a lice	ny best efforts to inter er 18 U.S. Code, Sect	oret the data avail ion 1001.	y law to able. I u	nderstand t	ration information. that any false e if attachments.
Certifier's Name	License Number				
	21431				MILLION.
Title PLS				11111	CONES
Company Name SITE SURVEYING, LLC			\dashv	N S	lace A
Address 11 WHITE OAK FOREST PL				E TOR	ere oc
City	State South Carolina	ZIP Code 29527		There	WITO SULL
Signature Allen	Date 10-07-2022	Telephone (843) 397-8000	Ext.		
Copy all pages of this Elevation Certificate and all attachment	ts for (1) community of	ficial, (2) insurance	agent/c	ompany, an	d (3) building own
Comments (including type of equipment and location, per C LOWEST MACHINERY WILL BE AC UNIT. FLOOD VENT SHEET. THE NET ARE OF OPENINGS IS 492 SQUARE I TO MATCH ENGINEERED RELIEF AREA OF OPENINGS	TS ARE ENGINEERE NCHES. THE COUN				
MA Form 086-0-33 (12/19) Repla	ces all previous editio				Form Page 2

137515

ELEVATION CERTIFICATE

10-18-22

OMB No. 1660-0008

Expiration Date: November 30, 2022 hris longy 4 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. Policy Number: 104 MARBLEHEAD DRIVE City State ZIP Code Company NAIC Number LITTLE RIVER South Carolina 29566 SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED)
FOR ZONE AO AND ZONE A (WITHOUT BFE) 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, E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG). a) Top of bottom floor (including basement, crawlspace, or enclosure) is _ ☐ feet ☐ meters ☐ above or ☐ below the HAG. b) Top of bottom floor (including basement, crawlspace, or enclosure) is feet meters above or below the LAG. E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1-2 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _ ☐ feet ☐ meters ☐ above or ☐ below the HAG. E3. 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 ☐ feet ☐ meters ☐ above or ☐ below the HAG. E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance?

Yes No Unknown. The local official must certify this information in Section G. SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge. Property Owner or Owner's Authorized Representative's Name ZIP Code Address City State Signature Date Telephone Comments

Check here if attachments.

137515 10-18-22 Chris langua OMB No. 1660-0008 Expiration Date: November 30, 2022

ELEVATION CERTIFICATE

IMPORTANT: In these spaces, copy the corre	esponding information from	m Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, St. 104 MARBLEHEAD DRIVE	uite, and/or Bldg. No.) or P.C). Route and Box No.	Policy Number:
City LITTLE RIVER	State South Carolina	ZIP Code 29566	Company NAIC Number
SECTIO	N G - COMMUNITY INFOR	RMATION (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, end G1. The information in Section C was take engineer, or architect who is authorized data in the Comments area below.)	Certificate. Complete the ap ter meters. en from other documentation	oplicable item(s) and sign that has been signed a	n below. Check the measurement and sealed by a licensed surveyor,
G2. A community official completed Section Zone AO.	on 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
G7. This permit has been issued for: G8. Elevation of as-built lowest floor (including of the building: G9. BFE or (in Zone AO) depth of flooding at the content of the building:		feet	
G10. Community's design flood elevation:	-	feet	t meters Datum
Local Official's Name	Title	е	
Community Name	Tel	ephone	
Signature	Dat	te	
Comments (including type of equipment and loc	cation, per C2(e), if applicable	le)	
			Check here if attachments.

BUILDING PHOTOGRAPHS

Chr.5

137515

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

ELEVATION CERTIFICATE

LITTLE RIVER

See Instructions for Item A6.

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. Policy Number: 104 MARBLEHEAD DRIVE ZIP Code Company NAIC Number City State

29566

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.

South Carolina



Photo One Caption FRONT Clear Photo One



Photo Two Caption BACK

Clear Photo Two

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

Replaces all previous editions.

Form Page 5 of 6

BUILDING PHOTOGRAPHS

Chris 137515

ELEVATION CERTIFICATE

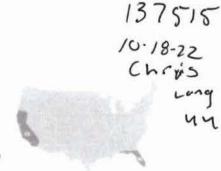
Continuation Page

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. Policy Number: 104 MARBLEHEAD DRIVE City ZIP Code State Company NAIC Number LITTLE RIVER South Carolina 29566 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 FLOOD VENTS Clear Photo Three Photo Four Caption FLOOD VENT 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 using 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

It CAS Evaluation Reports are not to be construed as representing accidence or any other attributes not specifically addressed mor are they to be construed as an endorsament of the subject of the report or a recommendation for its use. There is no warrings by 3% Lecaluation Service (11), express or implied as no any finding or other matter in this report, or as to any product concred by the report.





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

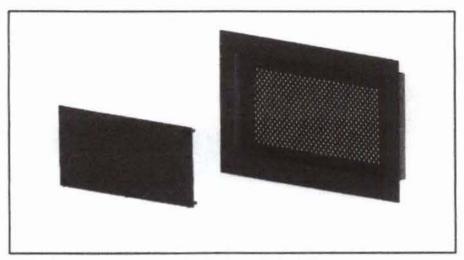


FIGURE 1-MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH COVER REMOVED

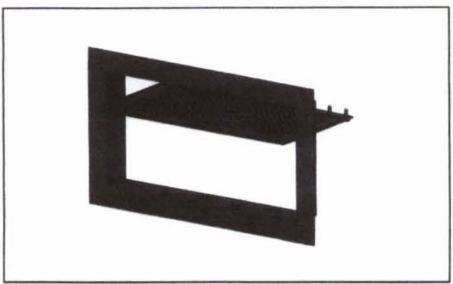


FIGURE 2-MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH FLOOD DOOR PIVOTED OPEN

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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

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 2022

