137514 10-19-2023 EMLENZE

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.

SECTION A - PROPERTY INFORMATION	FOR INSURANCE COMPANY USE
A1. Building Owner's Name CK CARR BROTHERS 2, LLC	Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and	Company NAIC Number:
Box No. 116 MARBLEHEAD DRIVE	
City State	ZIP Code
LITTLE RIVER South Carolina A3. Property Description (Let and Rical Numbers Tay Reveal Numbers Level Description et	29566
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc. UNIT 21 CAPE COD COTTAGES @ MARKER 350	·)
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDEN	TAL
A5. Latitude/Longitude: Lat. 33D51'10.206" Long. 78D39'23.619" Horizontal	Datum: NAD 1927 X NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain floor	insurance.
A7. Building Diagram Number6	
A8. For a building with a crawlspace or enclosure(s):	
a) Square footage of crawlspace or enclosure(s) 868.00 sq ft	
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot	above adjacent grade 4
c) Total net area of flood openings in A8.b 1000.00 sq in	
d) Engineered flood openings? Yes No	
A9. For a building with an attached garage:	
a) Square footage of attached garageN/A sq ft	
 b) Number of permanent flood openings in the attached garage within 1.0 foot above adj 	icent grade N/A
c) Total net area of flood openings in A9.b N/A sq in	
d) Engineered flood openings?	
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INF	ORMATION
B1. NFIP Community Name & Community Number B2. County Name	B3. State
HORRY COUNTY 450104 HORRY COUNTY	South Carolina
B4. Map/Panel Number B5. Suffix B6. FIRM Index Date B7. FIRM Panel Effective/ Revised Date B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth)
45051C0606 K 12-16-2021 12-16-2021 AE	10
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered FIS Profile FIRM Community Determined Other/Source: B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwice.	Other/Source:
Designation Date: N/A	C. Carolina for the Management
FEMA Form 086-0-33 (12/19) Replaces all previous editions.	Form Page 1 of

137514 10-14-2023 7mcev122

ELEVATION CERTIFICATE

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

MPORTANT: In these spaces, copy the corresponding information from Section A. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.		FOR INSURANCE COMPANY USE		
116 MARBLEHEAD DRIVE	and/or Bldg. No.) or P.(D. Route and Box No.	Policy Num	ber
City LITTLE RIVER	State South Carolina	ZIP Code 29566	Company N	IAIC Number
SECTION C - BUILDII	NG ELEVATION INFO	RMATION (SURVEY	REQUIRED)	
C1. Building elevations are based on: Con *A new Elevation Certificate will be required to	struction Drawings* [when construction of the		truction*	Finished Construction
C2. Elevations – Zones A1–A30, AE, AH, A (with Complete Items C2.a–h below according to the Benchmark Utilized: SC VRS	he building diagram spe	with BFE), AR, AR/A, A cified in Item A7. In Put latum: NAVD 1988	R/AE, AR/A1-A erto Rico only, e	A30, AR/AH, AR/AO. enter meters.
Indicate elevation datum used for the elevation		And the second s		-
☐ NGVD 1929 ☒ NAVD 1988 ☐	and the second s) below.		
Datum used for building elevations must be ti		the RFF		
	TO SOUTH SECURITION TO	THE DIE.	Check th	ne measurement used.
a) Top of bottom floor (including basement,	crawlspace, or enclosure	e floor)	9.5 ×	feet meters
b) Top of the next higher floor			20.0	feet meters
c) Bottom of the lowest horizontal structural	member (V Zones only)		N/A 🗵	feet meters
d) Attached garage (top of slab)	member (* Edride Griff)			feet meters
e) Lowest elevation of machinery or equipme (Describe type of equipment and location	ent servicing the building in Comments)			feet meters
f) Lowest adjacent (finished) grade next to b			8.1	feet meters
g) Highest adjacent (finished) grade next to	ALL POLYMAN AND AND AND AND AND AND AND AND AND A		9.1	feet meters
h) Lowest adjacent grade at lowest elevation structural support	TO DO THE WAY TO SHARE THE WAY	ling		feet meters
- ACCUMANTAL PROPERTY OF THE P	EYOR, ENGINEER, OF			
This certification is to be signed and sealed by a land certify that the information on this Certificate repostatement may be punishable by fine or imprison. Were latitude and longitude in Section A provided	and surveyor, engineer, resents my best efforts t nent under 18 U.S. Code	or architect authorized o interpret the data ave e, Section 1001	by law to certify	y elevation information. tand that any false
Certifier's Name JACQUES J. BONNETT	License Number 21431	er		william.
Title PLS Company Name SITE SURVEYING, LLC			100	Sand BE
Address 111 WHITE OAK FOREST PL			1111111111	Here
CONWAY	State South Carolina	ZIP Code 29527	74,	COUES
Signature Albano	Date 09-09-2022	Telephone (843) 397-8000	Ext.	
Copy all pages of this Elevation Certificate and all a	ttachments for (1) commu	unity official, (2) insurance	e agent/compa	ny, and (3) building owner
Comments (including type of equipment and locat LOWEST MACHINERY WILL BE AC UNIT. FLO SHEET. THE NET ARE OF OPENINGS IS 492 S TO MATCH ENGINEERED RELIEF AREA OF OR	OD VENTS ARE ENGIN	EERED FOR 250 SQ I	PUT SQUARE	INCHES OF OPENING

137514 10-14-2022 RMLEV. 22

ELEVATION CERTIFICATE

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

MPORTANT: In these spaces, copy the	corresponding information f	rom Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Ur 116 MARBLEHEAD DRIVE	it, Suite, and/or Bldg. No.) or f	P.O. Route and Box No.	Policy Number:
City	State	ZIP Code	Company NAIC Number
ITTLE RIVER	South Carolina	29566	
SECTION E - BU	FOR ZONE AO AND ZONE		OT REQUIRED)
For Zones AO and A (without BFE), complete Sections A, B,and C. For Items Enter meters.			
 Provide elevation information for the f the highest adjacent grade (HAG) and Top of bottom floor (including base 	the lowest adjacent grade (L/	oriate boxes to show when	ther the elevation is above or below
crawlspace, or enclosure) is b) Top of bottom floor (including base		feet me	eters above or below the HAG
crawlspace, or enclosure) is	1	feet me	eters above or below the LAG
For Building Diagrams 6–9 with perm the next higher floor (elevation C2.b in			
the diagrams) of the building is		feet me	eters above or below the HAG
3. Attached garage (top of slab) is		feet me	eters above or below the HAG
 Top of platform of machinery and/or e servicing the building is 	quipment	[] feet [] me	eters above or below the HAG
5. Zone AO only: If no flood depth numb floodplain management ordinance?	er is available, is the top of the	e bottom floor elevated in wn. The local official mu	accordance with the community's ust certify this information in Section G.
SECTION F - PRO	PERTY OWNER (OR OWNER	R'S REPRESENTATIVE)	CERTIFICATION
The property owner or owner's authorized community-issued BFE) or Zone AO must Property Owner or Owner's Authorized Re	sign here. The statements in	Sections A, B, and E for Sections A, B, and E are	correct to the best of my knowledge.
Address		City	State ZIP Code
Signature	1	Date	Telephone
Comments			
			Check here if attachments

137514 10-19-2022 RMLEVILZ

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corr	responding information fro	om Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, S 116 MARBLEHEAD DRIVE	suite, and/or Bldg. No.) or P.	O. Route and Box No.	Policy Number:
City LITTLE RIVER	State Corollan	ZIP Code	Company NAIC Number
	South Carolina	29566	
SECTI	ON G - COMMUNITY INFO	RMATION (OPTIONAL)	
The local official who is authorized by law or o Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, ea	n Certificate. Complete the a	community's floodplain mapplicable item(s) and sign	anagement ordinance can complete gn below. Check the measurement
G1. The information in Section C was tal engineer, or architect who is authoridata in the Comments area below.)			and sealed by a licensed surveyor, the source and date of the elevation
G2. A community official completed Second Zone AO.	tion E for a building located	in Zone A (without a FEI	MA-issued or community-issued BFE)
G3. The following information (Items G4	-G10) is provided for comm	unity floodplain manager	ment purposes.
G4. Permit Number	G5. Date Permit Issued	G6.	Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction Su	bstantial Improvement	
G8. Elevation of as-built lowest floor (including of the building:	ng basement)	fe	et meters Datum
G9. BFE or (in Zone AO) depth of flooding at	t the building site:	fe	et meters Datum
G10. Community's design flood elevation:		fe	et meters Datum
Local Official's Name	т.	itle	
Community Name	Т	elephone	
Signature	D	Pate	
Comments (including type of equipment and I	ocation, per C2(e), if applica	able)	
Common (more any), per or equipment			
1			
			☐ Check here if attachments.

16-19-2022

BUILDING PHOTOGRAPHS

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

ELEVATION CERTIFICATE

See Instructions for Item A6.

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE	
Building Street Address (including a 116 MARBLEHEAD DRIVE	Apt., Unit, Suite, and/or Bldg. No.) or F	P.O. Route and Box No.	Policy Number:	
City	State	ZIP Code	Company NAIC Number	
LITTLE RIVER	South Carolina	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.



Photo One

FRONT Photo One Caption

Clear Photo One



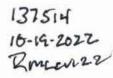
Photo Two Caption BACK

Clear Photo Two

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

Replaces all previous editions

Form Page 5 of 6











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ICC-ES Evaluation Report

ESR-4332

Reissued March 2022

This report is subject to renewal March 2024.

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

ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered 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

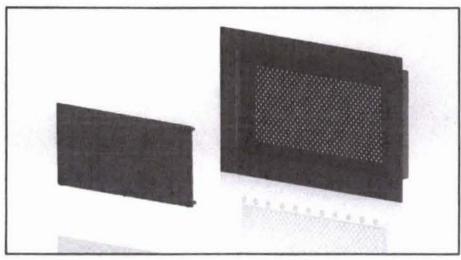


FIGURE 1—MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH COVER REMOVED

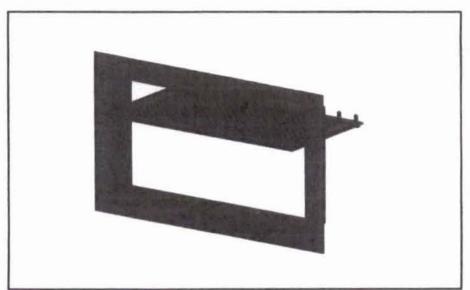


FIGURE 2-MODEL FFV-1608 FREEDOM FLOOD VENTTM: SHOWN WITH FLOOD DOOR PIVOTED OPEN



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—Residential, provided the design requirements are determined in accordance with the Florida 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

