# Certificate of Occupancy Greenbrier County

To certify that this structure located at 184 Callison Drive, Rainelle, WV has been inspected and approved by the Greenbrier County Department of Building Safety and is approved for occupancy. Permit R-7012 Group R-3 Construction Type 5

Greenbrier County Building Department Granted: May 26, 2022

Robert Ford CBO

Lucy Danton

Kelly Benton CFM

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**

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 Policy Number: Brenda Harris A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Company NAIC Number: 184 Callison Drive City State ZIP Code Rainelle West Virginia 25962 A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Parcel of land on Sewell Creek (DB 525, P 182 & Meadow Bluff District TM 60H, P 21) A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential A5. Latitude/Longitude: Lat, 37.958325N. Long. 80.787271W. Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 8 A8. For a building with a crawlspace or enclosure(s): Square footage of crawlspace or enclosure(s) 1200.00 sq ft b) Number of permanent flood openings in the crawfspace or enclosure(s) within 1.0 foot above adjacent grade 5 c) Total net area of flood openings in A8.b 1250.00 sq in A9. For a building with an attached garage: a) Square footage of attached garage \_\_\_\_\_ b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 0 c) Total net area of flood openings in A9.b 0.00 sq in SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number B2. County Name B3. State Greenbrier County, WV / 540040 Greenbrier West Virginia B5. Suffix B6. FIRM Index Date B4. Map/Panel Number B7. FIRM Panel Effective/ Revised Date B8. Flood Zone(s) B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 54025C0358 10-16-2012 10-16-2012 Draft AE 2398.3 B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item 89: ☐ 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

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

Designation Date:

Replaces all previous editions.

☐ CBRS ☐ OPA

Form Page 1 of 6

ELEV	ATION	CERT	FICATE

OMB No. 1660-0008

	ponding information from Castle		-		November 30, 20
MPORTANT: In these spaces, copy the corres Building Street Address (including Apt., Unit, Suit 184 Callison Drive	e, and/or Bidg. No.) or P.O. Route	on A.	FOR I	SURAN	CE COMPANY U
O COMPONI DINE	and an analysis of the state of	and box No.	Policy	Number:	
City Rainelle	State ZIP Co	de	Comps	ny NAIC	Number
	West Virginia 25962				reamber
SECTION C - BUILD	ING ELEVATION INFORMATIO	N (SURVEY RE	OUIRE	DI	
		Under Constru	_		
*A new Elevation Certificate will be required	when construction of the building	o complete			hed Construction
C2. Elevations – Zones A1–A30, AE, AH, A (with Complete Items C2.e–h below according to Benchmark Utilized: Survey grade GPS on	th BFE), VE, V1-V30, V (with BFE) the building diagram specified in Its site Vertical Datum: NA	, AR, AR/A, AR// em A7. In Puerto	AE, AR/	A1-A30, anly, enter	AR/AH, AR/AO. meters.
Indicate elevation datum used for the elevation	ions in Items a) through h) below.				
□ NGVD 1929 ☑ NAVD 1988 □	Other/Source:				
Datum used for building elevations must be			Cha		
<ul> <li>a) Top of bottom floor (including basement,</li> </ul>	crawlspace, or enclosure floor)	25		ox the me	asurement used meters
b) Top of the next higher floor					
c) Bottom of the lowest horizontal structural	member 0/ Zenes anhi)	24		⊠ feet	meters
d) Attached garage (top of slab)				feet	meters
e) Lowest elevation of machinery or equipm (Describe type of equipment and location	nent servicing the building	34		feet	_ meters
f) Lowest adjacent (finished) grade next to	building a so			✓ feet	meters
g) Highest adjacent (finished) grade next to		23	97.1	✓ feet	☐ meters
h) Lowest adjacent grade at lowest elevation structural support				⊠ feet	meters
structural support	_			✓ feet	☐ meters
his certification is to be elaned and seeled by a	EYOR, ENGINEER, OR ARCHIT and surveyor, engineer, or architect resents my best efforts to interpret			rtify elevi	ation information
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	CERT	

OMB No. 1660-0008

IMPORTANT: In these spaces, copy the corn Building Street Address (including Apt., Unit, St 184 Callison Drive City	nonsemoning information	L O		Expiration Date: November 30, 20
184 Callison Drive	uite and/or Blda No Vor	P.O. Berton A.		FOR INSURANCE COMPANY US
City	and, and a blog. No.) of	r.o. Route and B	IOX NO.	Policy Number:
	State	ZIP Code		Company NAIC Number
Rainelle	West Virginia	25962		
FOI	NG ELEVATION INFO	E A (WITHOUT E	BFE)	
For Zones AO and A (without BFE), complete it complete Sections A, B, and C. For Items E1-E- enter meters.	ems E1-E5. If the Certifi 4, use natural grade, if av	cate is intended to vailable. Check the	support a l	OMA or LOMR-F request, ent used. In Puerto Rico only,
E1. Provide elevation Information for the follow the highest adjacent grade (HAG) and the I a) Top of bottom floor (including basement	owest adjacent drage () /	oriate boxes to sho AG).	w whether	the elevation is above or below
crawlspace, or enclosure) is b) Top of bottom floor (including basement		feet	meters	above or below the HAG
crawlspace, or enclosure) is	,	□feet	□ meters	above or below the LAG
E2. For Building Diagrams 6–9 with permanent the next higher floor (elevation C2.b in	flood openings provided			
the diagrams) of the building is		[] feet	meters	above or below the HAG
E3. Attached garage (top of slab) is				
E4. Top of platform of machinery and/or equipm	nent .	Lieet	- meters	above or below the HAG
servicing the building is		∏feet	meters	above or below the HAG
E5. Zone AO only: If no flood depth number is a	vailable, is the top of the	hottom floor class	stad in susse	advance by m
floodplain management ordinance?	es   No   Unknow	vn. The local offi	cial must ce	rtify this information in Section G.
SECTION F - PROPERT	Y OWNER (OR OWNER	'S REPRESENTA	TIVE) CER	TIFICATION
Address	C	ity	State	ZIP Code
		(M)		
Address		ate		ZIP Code
Signature		(M)		
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IMPORTANT: In these spaces, copy to	ha company of the state of		Expiration Date: November 30, 20	
Building Street Address (including Apt.,	Unit Suite and/or Blda Na )	from Section A.	FOR INSURANCE COMPANY US	
184 Callison Drive	orm, conte, and/or bidg. No.) of	P.O. Route and Box No.	Policy Number:	
City	State	ZIP Code		
Rainelle	West Virginia	25962	Company NAIC Number	
	SECTION G - COMMUNITY INF			
The local official who is authorized by la Sections A, B, C (or E), and G of this El used in Items G8–G10. In Puerto Rico of	w or ordinance to administer the			
G1. The information in Section C or engineer, or architect who is a data in the Comments area be	was taken from other documenta uthorized by law to certify elevat slow.)	tion that has been signed ion information. (Indicate	and sealed by a licensed surveyor, the source and date of the elevation	
G2. A community official complete or Zone AO.	d Section E for a building located	in Zone A (without a FEI	MA-issued or community-issued BFE)	
G3. The following information (Iter	ns G4-G10) is provided for comm	nunity floodplain manage	ment purposes.	
G4. Permit Number	G5. Date Permit Issued	G6.	G6. Date Certificate of Compliance/Occupancy Issued	
G7. This permit has been issued for: G8. Elevation of as-built lowest floor (in	□ New Construction □ Se	ubstantial Improvement		
or the building.		[] fee	et meters Datum	
<ol> <li>BFE or (in Zone AO) depth of flood</li> </ol>		[] fee	et meters Datum	
G10. Community's design flood elevation		[] fee	et I meters Datum	
Local Official's Name	Т	tle		
Community Name	Т	elephone		
Signature	D	ate		
Comments (including type of equipment a	nd location, per C2(e), if applical	ble)		

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

Replaces all previous editions.

Form Page 4 of 6

Check here if attachments.

# **BUILDING PHOTOGRAPHS**

ELEVATION CERTIFICATE	OMB No. 1660-0008 Expiration Date: November 30, 202			
IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY US	
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 184 Callison Drive			Policy Number:	
City Rainelle	State West Virginia	ZIP Code 25962	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 A5. 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 Caption From left front perspective

Clear Photo One



Photo Two Caption From left rear perspective FEMA Form 086-0-33 (12/19)

Replaces all previous editions.

Clear Photo Two Form Page 5 of 6

# **ELEVATION CERTIFICATE**

# **BUILDING PHOTOGRAPHS**

Continuation Page

OMB No. 1660-0008

IMPORTANT: In these spaces some	4.		Expiration Date: November 30, 2023
MPORTANT: In these spaces, copy Building Street Address (including Ap	t., Unit, Suite, and/or Bidg. No.) or	FO Pouts and Pouts	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bidg. No.) or P.O. Route and Box No. 184 Callison Drive			Policy Number:
City Rainelle	State West Virginia	ZIP Code 25962	Company NAIC Number

If submitting more photographs than will fit on the preceding page, affor 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.



Clear Photo Three



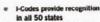
FEMA Form 086-0-33 (12/19)

Replaces all previous editions.









Specialty code recognition



Reissued March 2022

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A Subsidiary of the International Code Council®

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<sup>®</sup> (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<sup>™</sup> 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.



Page 1 of 4

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	153/4" X 81/16"	250

For SI: 1 inch = 25.4 mm

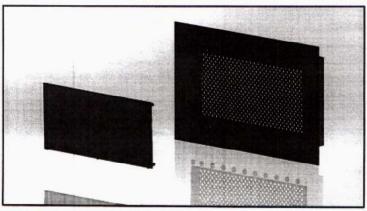


FIGURE 1—MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH COVER REMOVED

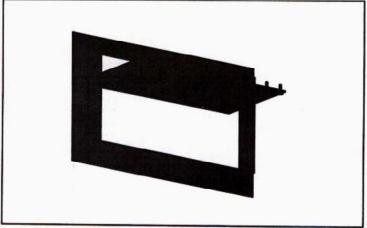


FIGURE 2—MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH FLOOD DOOR PIVOTED OPEN



# **ICC-ES Evaluation Report**

# **ESR-4332 CBC and CRC Supplement**

Reissued March 2022

This report is subject to renewal March 2024.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00-OPENINGS

Section: 08 95 43-Vents / Foundation Flood Vents

## REPORT HOLDER:

SMART PRODUCT INNOVATIONS, INC.

#### **EVALUATION SUBJECT:**

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

## 1.0 REPORT PURPOSE AND SCOPE

## Purpose:

The purpose of this evaluation report supplement is to indicate that the Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in ICC-ES evaluation report ESR-4332, has also been evaluated for compliance with codes noted below.

## Applicable code editions:

■ 2019 California Building Code (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

■ 2019 California Residential Code (CRC)

## 2.0 CONCLUSIONS

#### 2.1 CBC:

The Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in Sections 2.0 through 7.0 of the evaluation report ESR-4332, complies with CBC Chapter 12 provided the design and installation are in accordance with the 2018 International Building Code® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 12 and 16, as applicable.

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

## 2.2 CRC:

The Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in Sections 2.0 through 7.0 of the evaluation report ESR-4332, complies with the 2019 CRC, provided the design and installation are in accordance with the 2018 International Residential Code® (IRC) provisions noted in the evaluation report.

This supplement expires concurrently with the evaluation report, reissued March 2022.





# **ICC-ES Evaluation Report**

# **ESR-4332 FBC Supplement**

Reissued March 2022

This report is subject to renewal March 2024.

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, 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—Building Cod

Use of the Freedom Flood Vent<sup>™</sup> 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.

