

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

OMB Control No. 1660-0008
Expiration Date: 06/30/2026

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

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: <u>MARK & CHERYL KELLEY</u>	Policy Number: _____
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: <u>4008 PRINCESS LANE</u>	Company NAIC Number: _____
City: <u>PANAMA CITY</u> State: <u>FL</u> ZIP Code: <u>32405</u>	
A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Number: <u>LOTS 88, 89 & 90 BLOCK T, BAYVIEW HEIGHTS. TAX I.D. (27267-080-000)</u>	
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): <u>RESIDENTIAL</u>	
A5. Latitude/Longitude: Lat. <u>30°11'58.92" N.</u> Long. <u>85°42'35.78" W.</u> Horiz. Datum: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983 <input checked="" type="checkbox"/> WGS 84	
A6. Attach at least two and when possible four clear color photographs (one for each side) of the building (see Form pages 7 and 8).	
A7. Building Diagram Number: <u>6</u>	
A8. For a building with a crawlspace or enclosure(s):	
a) Square footage of crawlspace or enclosure(s): <u>2706.0</u> sq. ft.	
b) Is there at least one permanent flood opening on two different sides of each enclosed area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
c) Enter number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade: Non-engineered flood openings: <u>N/A</u> Engineered flood openings: <u>11</u>	
d) Total net open area of non-engineered flood openings in A8.c: <u>N/A</u> sq. in.	
e) Total rated area of engineered flood openings in A8.c (attach documentation – see Instructions): <u>250.0</u> sq. ft.	
f) Sum of A8.d and A8.e rated area (if applicable – see Instructions): <u>2750.0</u> sq. ft.	
A9. For a building with an attached garage:	
a) Square footage of attached garage: <u>N/A</u> sq. ft.	
b) Is there at least one permanent flood opening on two different sides of the attached garage? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
c) Enter number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade: Non-engineered flood openings: <u>N/A</u> Engineered flood openings: <u>N/A</u>	
d) Total net open area of non-engineered flood openings in A9.c: <u>N/A</u> sq. in.	
e) Total rated area of engineered flood openings in A9.c (attach documentation – see Instructions): <u>N/A</u> sq. ft.	
f) Sum of A9.d and A9.e rated area (if applicable – see Instructions): <u>N/A</u> sq. ft.	
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION	
B1.a. NFIP Community Name: <u>BAY COUNTY UNINCORPORATED AREA</u> B1.b. NFIP Community Identification Number: <u>120004</u>	
B2. County Name: <u>BAY</u> B3. State: <u>FL</u> B4. Map/Panel No.: <u>112005C0329</u> B5. Suffix: <u>J</u>	
B6. FIRM Index Date: <u>10/24/2024</u> B7. FIRM Panel Effective/Revised Date: <u>10/24/2024</u>	
B8. Flood Zone(s): <u>AE AND VE</u> B9. Base Flood Elevation(s) (BFE) (Zone AO, use Base Flood Depth): <u>10.0' AND 12.0'</u>	
B10. Indicate the source of the BFE data or Base Flood Depth entered in Item B9: <input type="checkbox"/> FIS <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other: _____	
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____	
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA	
B13. Is the building located seaward of the Limit of Moderate Wave Action (LiMWA)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:
4008 PRINCESS LANE

City: **PANAMA CITY** State: **FL** ZIP Code: **32405**

FOR INSURANCE COMPANY USE

Policy Number: _____

Company NAIC Number: _____

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, AO, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO, A99. Complete Items C2.a–h below according to the Building Diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: **46-00-A06HV-FDOT** Vertical Datum: **88 DATUM**

Indicate elevation datum used for the elevations in items a) through h) below.

☐ NGVD 1929 ☒ NAVD 1988 ☐ Other: _____

Datum used for building elevations must be the same as that used for the BFE. Conversion factor used?

☐ Yes ☒ No

If Yes, describe the source of the conversion factor in the Section D Comments area.

Check the measurement used:

a) Top of bottom floor (including basement, crawlspace, or enclosure floor): **5.8** ☒ feet ☐ meters

b) Top of the next higher floor (see Instructions): **17.1** ☒ feet ☐ meters

c) Bottom of the lowest horizontal structural member (see Instructions): **15.9** ☒ feet ☐ meters

d) Attached garage (top of slab): **N/A** ☐ feet ☐ meters

e) Lowest elevation of Machinery and Equipment (M&E) servicing the building (describe type of M&E and location in Section D Comments area): **16.8** ☐ feet ☐ meters

f) Lowest Adjacent Grade (LAG) next to building: ☒ Natural ☐ Finished **5.5** ☒ feet ☐ meters

g) Highest Adjacent Grade (HAG) next to building: ☒ Natural ☐ Finished **5.7** ☒ feet ☐ meters

h) Finished LAG at lowest elevation of attached deck or stairs, including structural support: **5.7** ☒ feet ☐ meters

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by state law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Were latitude and longitude in Section A provided by a licensed land surveyor? ☒ Yes ☐ No

☒ Check here if attachments and describe in the Comments area.

Certifier's Name: **ZANNIE THOMAS WHITE JR** License Number: **6041**

Title: **PRESIDENT**

Company Name: **Z'S LAND SURVEYING & MAPPING, INC**

Address: **PO BOX 401/1142 PERA ROAD**

City: **SAMSON** State: **AL** ZIP Code: **36477**

Telephone: **(850) 579-2315** Ext.: _____ Email: **zanniewhite@yahoo.com**

Signature: **Zannie Thomas White Jr** Digitally signed by Zannie Thomas White Jr
Date: 2025.12.11 16:04:45 -06'00' Date: **12/11/2025**



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

Comments (including source of conversion factor in C2; type of equipment and location per C2.e; and description of any attachments):

A5. LATITUDE AND LONGITUDE WERE DERIVED F.D.O.T. FRN NETWORK GPS OBSERVATION

A8. (c & e)10 FREEDOM VENTS, MODEL-FFV-1608 RATED 250 SQ. FT EACH

C2(e) AIR CONDITIONER SERVICING THE RESIDENCE

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

Building Street Address (Including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 4008 PRINCESS LANE	FOR INSURANCE COMPANY USE
City: PANAMA CITY State: FL ZIP Code: 32405	Policy Number: _____
	Company NAIC Number: _____

SECTION E – BUILDING MEASUREMENT INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO, ZONE AR/AO, AND ZONE A (WITHOUT BFE)

For Zones AO, AR/AO, and A (without BFE), complete Items E1–E5. For Items E1–E4, use natural grade, if available. If the Certificate is intended to support a Letter of Map Change request, complete Sections A, B, and C. Check the measurement used. In Puerto Rico only, enter meters.

Building measurements are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☐ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

E1. Provide measurements (C.2.a in applicable Building Diagram) for the following and check the appropriate boxes to show whether the measurement is above or below the natural HAG and the 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 (C2.b in applicable Building Diagram) 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 AUTHORIZED REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without BFE) or Zone AO must sign here. *The statements in Sections A, B, and E are correct to the best of my knowledge*

☐ Check here if attachments and describe in the Comments area.

Property Owner or Owner's Authorized Representative Name: _____

Address: _____

City: _____ State: _____ ZIP Code: _____

Telephone: _____ Ext.: _____ Email: _____

Signature: _____ Date: _____

Comments:

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 4008 PRINCESS LANE	FOR INSURANCE COMPANY USE
City: PANAMA CITY State: FL ZIP Code: 32405	Policy Number: _____ Company NAIC Number: _____
SECTION G – COMMUNITY INFORMATION (RECOMMENDED FOR COMMUNITY OFFICIAL COMPLETION)	
<p>The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Section A, B, C, E, G, or H of this Elevation Certificate. Complete the applicable item(s) and sign below when:</p>	
<p>G1. <input type="checkbox"/> The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by state law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)</p>	
<p>G2.a. <input type="checkbox"/> A local official completed Section E for a building located in Zone A (without a BFE), Zone AO, or Zone AR/AO, or when item E5 is completed for a building located in Zone AO.</p>	
<p>G2.b. <input type="checkbox"/> A local official completed Section H for insurance purposes.</p>	
<p>G3. <input type="checkbox"/> In the Comments area of Section G, the local official describes specific corrections to the information in Sections A, B, E and H.</p>	
<p>G4. <input checked="" type="checkbox"/> The following information (Items G5–G11) is provided for community floodplain management purposes.</p>	
<p>G5. Permit Number: <u>PRSE 202403425</u> G6. Date Permit Issued: _____</p>	
<p>G7. Date Certificate of Compliance/Occupancy Issued: _____</p>	
<p>G8. This permit has been issued for: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Substantial Improvement</p>	
<p>G9.a. Elevation of as-built lowest floor (including basement) of the building: _____ <input type="checkbox"/> feet <input type="checkbox"/> meters Datum: _____</p>	
<p>G9.b. Elevation of bottom of as-built lowest horizontal structural member: _____ <input type="checkbox"/> feet <input type="checkbox"/> meters Datum: _____</p>	
<p>G10.a. BFE (or depth in Zone AO) of flooding at the building site: _____ <input type="checkbox"/> feet <input type="checkbox"/> meters Datum: _____</p>	
<p>G10.b. Community's minimum elevation (or depth in Zone AO) requirement for the lowest floor or lowest horizontal structural member: _____ <input type="checkbox"/> feet <input type="checkbox"/> meters Datum: _____</p>	
<p>G11. Variance issued? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, attach documentation and describe in the Comments area.</p>	
<p>The local official who provides information in Section G must sign here. <i>I have completed the information in Section G and certify that it is correct to the best of my knowledge. If applicable, I have also provided specific corrections in the Comments area of this section.</i></p>	
<p>Local Official's Name: <u>Debra M. Stenard</u> Title: <u>Planner</u></p>	
<p>NFIP Community Name: <u>Bay County</u></p>	
<p>Telephone: _____ Ext.: _____ Email: _____</p>	
<p>Address: _____</p>	
<p>City: _____ State: _____ ZIP Code: _____</p>	
<p>Signature: <u>Debra M. Stenard</u> Date: <u>12-0-25</u></p>	
<p>Comments (including type of equipment and location, per C2.e; description of any attachments; and corrections to specific information in Sections A, B, D, E, or H):</p> <p style="text-align: center;"><u>Ok for C2.</u> <u>thms</u></p>	

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 4008 PRINCESS LANE	FOR INSURANCE COMPANY USE
City: PANAMA CITY State: FL ZIP Code: 32405	Policy Number: _____
	Company NAIC Number: _____

SECTION H – BUILDING'S FIRST FLOOR HEIGHT INFORMATION FOR ALL ZONES (SURVEY NOT REQUIRED) (FOR INSURANCE PURPOSES ONLY)

The property owner, owner's authorized representative, or local floodplain management official may complete Section H for all flood zones to determine the building's first floor height for insurance purposes. Sections A, B, and I must also be completed. Enter heights to the nearest tenth of a foot (nearest tenth of a meter in Puerto Rico). *Reference the Foundation Type Diagrams (at the end of Section H Instructions) and the appropriate Building Diagrams (at the end of Section I Instructions) to complete this section.*

H1. Provide the height of the top of the floor (as indicated in Foundation Type Diagrams) above the Lowest Adjacent Grade (LAG):

a) For Building Diagrams 1A, 1B, 3, and 5–8. Top of bottom _____ ☐ feet ☐ meters ☐ above the LAG
floor (include above-grade floors only for buildings with
crawlspaces or enclosure floors) is:

b) For Building Diagrams 2A, 2B, 4, and 6–9. Top of next _____ ☐ feet ☐ meters ☐ above the LAG
higher floor (i.e., the floor above basement, crawlspace, or
enclosure floor) is:

H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) elevated to or above the floor indicated by the H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) for the appropriate Building Diagram?

☐ Yes ☐ No

SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. *The statements in Sections A, B, and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they should indicate in Item G2.b and sign Section G.*

☐ Check here if attachments are provided (including required photos) and describe each attachment in the Comments area.

Property Owner or Owner's Authorized Representative Name: _____

Address: _____

City: _____ State: _____ ZIP Code: _____

Telephone: _____ Ext.: _____ Email: _____

Signature: _____ Date: _____

Comments:

ELEVATION CERTIFICATE
IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11
BUILDING PHOTOGRAPHS
See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:
4008 PRINCESS LANE

City: **PANAMA CITY** State: **FL** ZIP Code: **32405**

FOR INSURANCE COMPANY USE

Policy Number: _____

Company NAIC Number: _____

Instructions: Insert below at least two and when possible four photographs showing each side of the building (for example, may only be able to take front and back pictures of townhouses/rowhouses). Identify all photographs with the date taken and "Front View," "Rear View," "Right Side View," or "Left Side View." Photographs must show the foundation. When flood openings are present, include at least one close-up photograph of representative flood openings or vents, as indicated in Sections A8 and A9.



Photo One

Photo One Caption: **FRONT VIEW 12/08/2025**

Clear Photo One



Photo Two

Photo Two Caption: **FRONT RIGHT VIEW 12/08/2025**

Clear Photo Two

ELEVATION CERTIFICATE
IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11
BUILDING PHOTOGRAPHS

Continuation Page

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:
4008 PRINCESS LANE

City: **PANAMA CITY** State: **FL** ZIP Code: **32405**

FOR INSURANCE COMPANY USE

Policy Number: _____

Company NAIC Number: _____

Insert the third and fourth photographs below. Identify all photographs with the date taken and "Front View," "Rear View," "Right Side View," or "Left Side View." When flood openings are present, include at least one close-up photograph of representative flood openings or vents, as indicated in Sections A8 and A9.



Photo Three

Photo Three Caption: RIGHT REAR VIEW WITH AC AND VENTS 12/08/2025

Clear Photo Three



Photo Four

Photo Four Caption: LEFT SIDE FRONT VIEW 12/08/2025

Clear Photo Four

ZONE V DESIGN CERTIFICATE

Name MARK CHERYL KELLY Policy Number (Insurance Co. Use) _____
Building Address or Other Description 4008 PRINCESS LANE
Permit No. _____ City Panama City State FL Zip Code 32405

SECTION I: Flood Insurance Rate Map (FIRM) Information

Community Name & No. 12004 Bay County Panel No. 112005C0329 Suffix J FIRM Date 10-24-24
FIRM Zone(s) VE (Seaward of LiMWA (Coastal A Zone) ☐ Yes ☒ No

SECTION II: Elevation Information Used for Design

[NOTE: This section documents elevations used in the design – it does not substitute for an as-built Elevation Certificate.]

1. Datum..... ☐ NGVD ☒ NAVD ☐ Other
2. Elevation of the Bottom of Lowest Horizontal Structural Member 15.9 feet above datum
3. Base Flood Elevation (BFE)..... 12.0 feet above datum
4. Elevation of Lowest Adjacent Grade 5.7 feet above datum
5. Approximate Depth of Anticipated Scour/Erosion used for Foundation Design..... 3.0 feet
6. Embedment Depth of Pilings or Foundation Below Lowest Adjacent Grade..... 30 feet

SECTION III: Zone V Design Certification Statement

[NOTE: This section must be certified by a Florida licensed engineer or architect.]

I certify: (1) I have developed or reviewed the structural design, plans, and specifications for construction and (2) the design and methods of construction to be used are in accordance with accepted standards of practice for meeting the following provisions:

- The bottom of the lowest horizontal structural member of the lowest floor (with the exception of mat or raft foundations, piling, pile caps, columns, grade beams and bracing) is elevated to or above the BFE in accordance with the requirements of the *Florida Building Code* or local floodplain management regulations (manufactured homes and buildings exempt from the FBC, B); and
- The pile and column foundation and building or structure to be attached thereto is designed in accordance with the *Florida Building Code* to be anchored to resist flotation, collapse, and lateral movement due to the effects of the wind and flood loads acting simultaneously on all building components, and other load requirements of the *Florida Building Code*. The potential for scour and erosion at the foundation has been anticipated for conditions associated with the base flood, including wave action.

SECTION IV: Breakaway Wall Design Certification Statement

[NOTE: This section must also be certified by a Florida licensed engineer or architect when breakaway walls exceed a design safe loading resistance of 20 pounds per square foot. This requirement does not apply to open wood/plastic lattice/slats/louvers or insect screening.]

I certify: (1) I have developed or reviewed the structural design, plans, and specifications for construction and (2) the design and methods of construction to be used for the breakaway walls are in accordance with the *Florida Building Code, Building* (ASCE 24) or *Florida Building Code, Residential*, as applicable, and accepted standards of practice.

SECTION V: Certification and Seal

This certification is to be signed and sealed by a Florida licensed professional engineer or architect authorized by law to certify structural designs. I certify the Zone V Design Certification Statement in Section III and the Breakaway Wall Design Certification Statement in Section IV (if applicable).

J. Michael Hunnicutt AR0015318
Certifier's Name
ARCHITECT J. Michael Hunnicutt, Architect
Title
8317 Front Beach Blvd P.O. Box P.C.B FL 32407
Address
12-12-25 850-966-1030
City State ZIP
Signature Date Telephone



ICC-ES Evaluation Report

ESR-4332

Reissued March 2024

Revised June 2024

Subject to renewal March 2026


This report also contains:

- CBC Supplement

- FBC Supplement

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.

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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	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 [International Building Code® \(IBC\)](#)
- 2024, 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 (2024, 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 (2024, 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.
- 5.4 FFV-1608 Freedom Flood Vent® is manufactured in Gastonia, North Carolina under a quality control program with inspections by ICC-ES.

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 2024).

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-4332) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.
- 7.2 In addition, 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).
- 7.3 The report holder's contact information is the following:

SMART PRODUCT INNOVATIONS, INC.
19 MANTUA ROAD
MOUNT ROYAL, NEW JERSEY 08061
(800) 507-1527
www.freedomfloodvent.com
info@freedomfloodvent.com

TABLE 1—FREEDOM FLOOD VENT®

MODEL NAME	MODEL NUMBER	MODEL SIZE	COVERAGE ¹ (ft ²)
Freedom Flood Vent®	FFV-1608	15 ³ / ₄ " X 8 ¹ / ₁₆ "	250

For SI: 1 inch = 25.4 mm

¹The enclosed coverage area in square feet is equivalent to the performance of the same number of square inches of non-engineered openings.

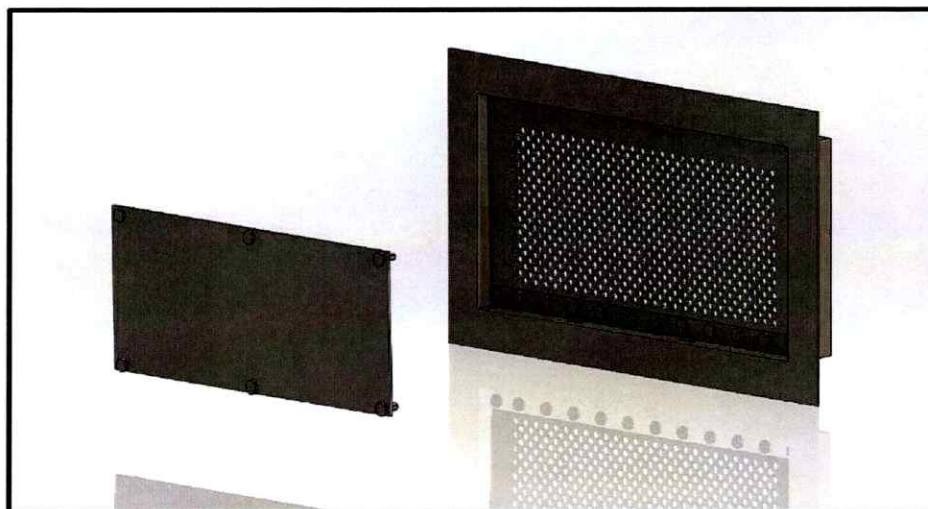


FIGURE 1—MODEL FFV-1608 FREEDOM FLOOD VENT®: SHOWN WITH COVER REMOVED



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

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:**■ 2022 California Building Code (CBC)**

For evaluation of applicable chapters adopted by the California Office of Statewide Planning and Development (OSHDP) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

■ 2022 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 2021 *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 CRC, provided the design and installation are in accordance with the 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report.

This supplement expires concurrently with the evaluation report, reissued March 2024 and revised June 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 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:

- 2023 Florida Building Code—Building
- 2023 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 must be 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 2021 *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 2024 and revised June 2024.