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.

· · · · · · · · · · · · · · · · · · ·	SEC	ION A - PROPERTY	INFOR	MATION		FOR INSUF	RANCE COMPANY USE	
A1. Building Owner's Name BRETT A. & CYNTHIA L. CHABERT						Policy Num	ber.	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 6312 TURKEY COVE LANE							IAIC Number:	
City State PANAMA CITY BEACH Florida								
• •		nd Block Numbers, Ta DOKED CREEK UNIT						
A4. Building Use (e	e.g., Residen	tial, Non-Residential,	Addition,	Accessory, e	etc.) RESIDEN	TIAL		
	A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) A5. Latitude/Longitude: Lat. 30°17'44.1" N Long. 85°48'54.6" W Horizontal Datum: NAD 1927 X NAD 1983							
A6. Attach at least	— 2 photograp	hs of the building if the	 Certific	ate is being u	 sed to obtain floo	d insurance.	·	
A7. Building Diagra								
A8. For a building v	vith a crawls	pace or enclosure(s):						
a) Square foot	age of crawl	space or enclosure(s)		1	047.00 sq ft			
b) Number of p	ermanent flo	ood openings in the cra	awispace	or enclosure	e(s) within 1.0 foo	above adjacent gr	ade 5	
c) Total net are	ea of flood or	enings in A8.b		640.00 sq in	l			
d) Engineered	flood openir	gs? ⊠Yes □ N	lo					
A9. For a building w	ith an attach	ed garage:						
a) Square foot	age of attach	ed garage		00.00 sq ft				
b) Number of p	ermanent fic	ood openings in the at	ached g	arage within	1.0 foot above adj	acent grade 0	!	
c) Total net are				ps 00.0				
d) Engineered	flood openin	gs? ☐ Yes ⊠ N	lo					
10 V 0 F	≘i≏: SI	CTION B - FLOOD	NSURA	NCE RATE	MAP (FIRM) INF	ORMATION		
B1 NEIP Communi		Community Number		B2. County BAY	Name		B3. State Florida	
B4. Map/Panel ?	B5. Suffix	B6. FIRM Index Date	Effe	RM Panel ective/ vised Date	B8. Flood Zone(s)	B9. Base Flood E (Zone AO, us	Elevation(s) se Base Flood Depth)	
12005C0190	н	06-02-2009	06-02-2		AE	9.0'		
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in term B9:								
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								
Designation Date: CBRS OPA								

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspond	ding information from Se	ction A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, an 6312 TURKEY COVE LANE	nd/or Bldg. No.) or P.O. Ro	ute and Box No.	Policy Number:
City PANAMA CITY BEACH	State ZIP Florida 324	Code 113	Company NAIC Number
SECTION C - BUILDING	ELEVATION INFORMA	TION (SURVEY RE	EQUIRED)
C1. Building elevations are based on: Constru	uction Drawings*	lding Under Constru	uction* Finished Construction
*A new Elevation Certificate will be required who			
C2. Elevations – Zones A1–A30, AE, AH, A (with BF Complete Items C2.a–h below according to the Benchmark Utilized: USCG&GS L-175	FE), VE, V1–V30, V (with B building diagram specified Vertical Datum	in Item A7. In Puerto	AE, AR/A1–A30, AR/AH, AR/AO. p Rico only, enter meters.
Indicate elevation datum used for the elevations	in items a) through h) belo	ow.	
☐ NGVD 1929 ☑ NAVD 1988 ☐ Ott			
Datum used for building elevations must be the	same as that used for the B	BFE.	Check the measurement used.
 a) Top of bottom floor (including basement, craw 	wlspace, or enclosure floor)	6.25 X feet meters
b) Top of the next higher floor			16.60 X feet meters
c) Bottom of the lowest horizontal structural me	mber (V Zones only)		N/A feet meters
d) Attached garage (top of slab)			N/A feet meters
 e) Lowest elevation of machinery or equipment (Describe type of equipment and location in 0 	servicing the building Comments)		10.1 X feet meters
f) Lowest adjacent (finished) grade next to build	ding (LAG)		5.4 X feet meters
g) Highest adjacent (finished) grade next to buil	ding (HAG)		5.9 X feet meters
 h) Lowest adjacent grade at lowest elevation of structural support 	deck or stairs, including		N/A feet meters
SECTION D - SURVEYO	OR, ENGINEER, OR ARC	CHITECT CERTIFIC	CATION
This certification is to be signed and sealed by a land I certify that the information on this Certificate representatement may be punishable by fine or imprisonment	enis my nest emons to intel	nret the data availal	law to certify elevation information. ble. I understand that any false
Were latitude and longitude in Section A provided by			
Certifier's Name ZANNIE THOMAS WHITE, JR	License Number 6041		
Title	0041		
PRESIDENT			015
Company Name Z'S LAND SURVEYING & MAPPING, INC			1 the west
Address PO BOX 401/ 1142 PERA ROAD			1605.21
City SAMSON	State Alabama	ZIP Code 36477	1 1
Signature 1 / / / / /	Date 10-05-2021	Telephone (850) 579-2315	Ext.
Copy all pages of this Elevation Certificate and all attach	NAME AND DESCRIPTIONS		gent/company and (3) building owner
Comments (including type of equipment and location, A5. LATITUDE AND LONGITUDE WERE DERIVED IT A8 (b) FIVE (5) FLOOD VENT MODEL FFWF12, EACH FEET. C2(e) AIR CONDITIONER SERVICING THE RESIDER	per C2(e), if applicable) FROM THE BAY COUNTY CH VENT COVERS 220 SC	PROPERTY APPR	AISED WEDSITE

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspond	ing information fro	om Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and 6312 TURKEY COVE LANE	d/or Bldg. No.) or P.	O. Route and Box No.	Policy Number:
City	State	ZIP Code	Company NAIC Number
j,	Florida	32413	
SECTION E – BUILDING EL FOR ZON	EVATION INFOR	MATION (SURVEY NO A (WITHOUT BFE)	required)
For Zones AO and A (without BFE), complete Items E1 complete Sections A, B,and C. For Items E1–E4, use renter meters.	I–E5. If the Certificanatural grade, if ava	ate is intended to support ilable. Check the measure	a LOMA or LOMR-F request, ement used. In Puerto Rico only,
E1. Provide elevation information for the following and the highest adjacent grade (HAG) and the lowest	l check the appropri adjacent grade (LA	ate boxes to show wheth G).	er the elevation is above or below
a) Top of bottom floor (including basement, crawlspace, or enclosure) is			ers 🔲 above or 🔲 below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is			ers 🔲 above or 🔲 below the LAG.
E2. For Building Diagrams 6–9 with permanent flood o	penings provided in	n Section A Items 8 and/o	or 9 (see pages 1–2 of Instructions),
the next higher floor (elevation C2.b in the diagrams) of the building is	- ·		
E3. Attached garage (top of slab) is		feet mete	ers above or below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is			ers ☐ above or ☐ below the HAG.
E5. Zone AO only: If no flood depth number is availab floodplain management ordinance? Yes	le, is the top of the] No 🏻 Unknow	bottom floor elevated in a n. The local official mus	ccordance with the community's t certify this information in Section G.
SECTION F - PROPERTY OW	NER (OR OWNER	S REPRESENTATIVE) C	ERTIFICATION
The property owner or owner's authorized representati community-issued BFE) or Zone AO must sign here. T	ve who completes he statements in S	Sections A, B, and E for Z ections A, B, and E are co	Cone A (without a FEMA-issued or
Property Owner or Owner's Authorized Representative	's Name		
Address	Ci	ty S	State \ ZIP Code
Signature	Da	ate T	elephone
Comments			
			1 . z
			Check here if attachments.

ELEVATION CERTIFICATE

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

MPORTANT: 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:						
City PANAMA CITY BEACH	State Florida	ZIP Code 32413	Company NAIC Number			
SECTION	ON G - COMMUNITY INF	ORMATION (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, en	rdinance to administer the	community's floodplain ma	anagement ordinance can complete			
G1. The information in Section C was tak engineer, or architect who is authoriz data in the Comments area below.)	ten from other documentated by law to certify elevated	tion that has been signed a ion information. (Indicate the	and sealed by a licensed surveyor, ne source and date of the elevation			
G2. A community official completed Section Zone AO.	ion E for a building located	d in Zone A (without a FEM	IA-issued or community-issued BFE)			
G3. The following information (Items G4-	-G10) is provided for comr	munity floodplain managem	nent purposes.			
G4. Permit Number B18-05-23	G5. Date Permit Issued		Date Certificate of Compliance/Occupancy Issued			
G7. This permit has been issued for:	New Construction S	ubstantial Improvement				
G8. Elevation of as-built lowest floor (including of the building:	g basement)	fee	t 🗌 meters Datum			
G9. BFE or (in Zone AO) depth of flooding at	the building site:	feet	t meters Datum			
G10. Community's design flood elevation:	-	fee	t meters Datum			
Local Official's Name	T	ītle				
Community Name	T	elephone				
Signature	/	Date / 2/2021				
Comments (including type of equipment and loc	cation, per C2(e), if applica	able)				
OK farco.						
			Check here if attachments.			

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

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

IMPORTANT: In these spaces, copy the	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., L 6312 TURKEY COVE LANE	nit, Suite, and/or Bldg. No.)	or P.O. Route and Box No.	Policy Number:
City PANAMA CITY BEACH	State Florida	ZIP Code 32413	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Photo One

Photo One Caption FRONT VIEW 09/20/2021

Clear Photo One



Photo Two

Photo Two Caption GARAGE VIEW 09/21/2021

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy th	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., 6312 TURKEY COVE LANE	Unit, Suite, and/or Bldg. No.)	or P.O. Route and Box No.	Policy Number:
City PANAMA CITY BEACH	State Florida	ZIP Code 32413	Company NAIC Number
TATAL CONTROLLER CONT	riorida	02110	

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.



Photo Three Caption SIDE VIEW WITH VENT AND AC 10/05//2021

Clear Photo Three



Photo Four Caption VENT 09/20/2021

Clear Photo Four



ICC-ES Evaluation Report

ESR-3560

Reissued September 2020

This report is subject to renewal September 2021.

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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:

FLOOD FLAPS®, LLC

EVALUATION SUBJECT:

FLOOD FLAPS® AUTOMATIC FLOOD VENTS: MODELS FFWF12; FFNF12; FFWF08; FFNF08; FFWF05; FFNF05

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015, 2012 and 2009 International Building Code[®] (IBC)
- 2018, 2015, 2012 and 2009 International Residential Code® (IRC)

Properties evaluated:

- Physical operation
- Water flow
- Weathering

2.0 USES

Flood Flaps® automatic flood vents are used to provide for the equalization of hydrostatic flood forces on exterior walls. Certain models also allow natural ventilation.

3.0 DESCRIPTION

3.1 General:

Flood Flaps® automatic flood vents are engineered mechanically operated flood vents (FVs) that automatically allow flood waters to enter and exit enclosed areas. The FVs are constructed of ABS plastic which serves as the FV's housing, and a front grill that contains an anodized metal screen imbedded in polypropylene plastic. On contact with rising flood water, the grill will disengage from its secured position, allowing flood water and debris to flow through in either direction. The FVs are available in two series as described in Section 3.3.

The sealed series models contain two rubber flaps that close the FV to the passage of air when using with conditioned areas or sealed crawl spaces. In the same manner as the grill, the two rubber flaps are pushed open

by water pressure, allowing water and debris to flow through the FV in either direction. See Figure 1 for an illustration of the Flood Flaps® automatic FV.

3.2 Engineered Opening:

The Flood Flaps® automatic FVs comply with the design principle noted in Sections 2.7.2.2 and 2.7.3 of ASCE/SEI 24-14 (2018 and 2015 IBC and IRC) [Section 2.6.2.2 of ASCE/SEI 24-05 (2012 and 2009 IBC and IRC)] for a rate of rise and fall of 5 feet per hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/SEI 24, Flood Flaps® automatic FVs must be installed in accordance with Section 4.0.

3.3 Flood Vent Series Models:

Flood Flaps® automatic FVs are available in two series with multiple models and sizes as described in Table 1. The sealed series models, designated FFWF, include two rubber flaps for the prevention of air flow. The multipurpose series, designated FFNF, omits the rubber flaps.

3.4 Natural Ventilation:

Flood Flaps® automatic FV models FFNF12, FFNF08, FFNF05, and FFNF02 have metal screens with 1/4 inch by 1/4 inch (6 mm by 6 mm) openings and provide 37 square inches (0.02 m2) of net free opening to supply natural ventilation for under-floor ventilation. Flood Flaps® automatic FV models FFWF12, FFWF08, and FFWF05 have not been evaluated for use as openings for under-floor ventilation.

4.0 DESIGN AND INSTALLATION

Flood Flaps® automatic FVs are designed to be installed into walls of existing or new construction. Installation of the FVs must be in accordance with the manufacturer's instructions, the applicable code and this report. Flood Flaps® automatic FVs can be installed in wood, masonry and concrete walls up to a thickness of 12 inches (305 mm). 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 (2018 and 2015 IBC and IRC) [Section 2.6.2.2 of ASCE/SEI 24-05 (2012 and 2009 IBC and IRC)], the Flood Flaps® FVs 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 220 square feet (20 m²) of enclosed area.



- Below the base flood elevation
- With the bottom of the FV located a maximum of 12 inches (305 mm) above grade.

5.0 CONDITIONS OF USE

The Flood Flaps® automatic flood vents described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The Flood Flaps® automatic FVs must be installed in accordance with this report, the applicable code and the manufacturer's installation instructions. In the event of a conflict, the instructions in this report govern.
- **5.2** The Flood Flaps® automatic FVs 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.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015 (editorially revised October 2017).

7.0 IDENTIFICATION

- 7.1 The Flood Flaps® models recognized in this report are identified by a label bearing the manufacturer's name, the model number, and the evaluation report number (ESR-3560).
- **7.2** The report holder's contact information is the following:

FLOOD FLAPS®, LLC POST OFFICE BOX 1003 ISLE OF PALMS, SOUTH CAROLINA 29451 (843) 881-0190

www.floodflaps.com info@floodflaps.com

TABLE 1-FLOOD FLAP AUTOMATIC FLOOD VENT MODEL SIZES

MODEL NUMBER	MODEL DESIGNATION	ROUGH OPENING (Width X Height) (inches)	VENT SIZE (W X H X D) (inches)	ENCLOSED AREA COVERAGE (ft²)	NET FREE AREA OPENING ¹ (in ²)
FFWF12	Sealed Series	16 x 8	15 ⁵ / ₈ X 7 ³ / ₄ X 12	220	NA
FFNF12	Multi-Purpose	16 x 8	15 ⁵ / ₈ X 7 ³ / ₄ X 12	220	37
FFWF08	Sealed Series	16 x 8	15 ⁵ / ₈ x 7 ³ / ₄ x 8	220	NA
FFNF08	Multi-Purpose	16 x 8	15 ⁵ / ₈ x 7 ³ / ₄ x 8	220	37
FFWF05	Sealed Series	16 x 8	$15^5/_8 \times 7^3/_4 \times 5$	220	NA
FFNF05	Multi-Purpose	16 x 8	15 ⁵ / ₈ x 7 ³ / ₄ x 5	220	37

For SI: 1 inch = 25.4 mm; 1 ft2 = 0.093 m2

¹For under-floor ventilation only.

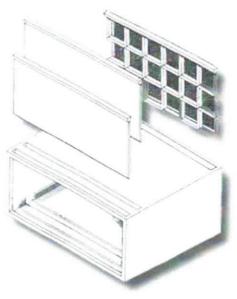


FIGURE 1—FLOOD FLAPS® AUTOMATIC FLOOD VENT



FIGURE 2—FLOOD FLAPS® AUTOMATIC FLOOD VENT SERIES MODELS

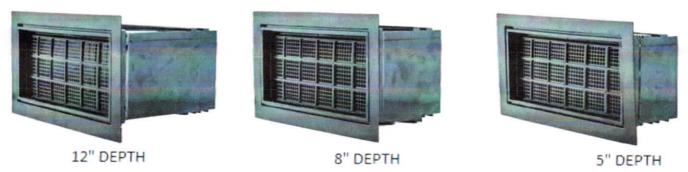


FIGURE 3—FLOOD FLAPS® AUTOMATIC FLOOD VENTS MULTIPLE DEPTH OFFERINGS



ICC-ES Evaluation Report

ESR-3560 CBC and CRC Supplement

Issued September 2020

This report is subject to renewal September 2021.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 88-OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

FLOOD FLAPS®, LLC

EVALUATION SUBJECT:

FLOOD FLAPS® AUTOMATIC FLOOD VENTS: MODELS FFWF12; FFNF12; FFWF08; FFNF08; FFWF05; FFNF05

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Flood Flaps® automatic flood vents, described in ICC-ES evaluation report ESR-3560, has also been evaluated for compliance with the code(s) noted below.

Applicable code edition(s):

- 2019 California Building Code (CBC)
- 2019 California Residential Code (CRC)

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

2.0 CONCLUSIONS

2.1 CBC:

The Flood Flaps® automatic flood vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-3560, comply 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 of the CBC are beyond the scope of this supplement.
- 2.1.2 DSA: The applicable DSA Sections of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Flood Flaps® automatic flood vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-3560, comply with 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 September 2020.





ICC-ES Evaluation Report

ESR-3560 FBC Supplement

Reissued September 2020

This report is subject to renewal September 2021.

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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:

FLOOD FLAPS®, LLC

EVALUATION SUBJECT:

FLOOD FLAPS® AUTOMATIC FLOOD VENTS: MODELS FFWF12; FFNF12; FFWF08; FFNF08; FFWF05; FFNF05

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Flood Flaps® automatic flood vents, described in ICC-ES evaluation report ESR-3560, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2017 Florida Building Code—Building
- 2017 Florida Building Code—Residential

2.0 CONCLUSIONS

The Flood Flaps flood vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-3560, comply with the Florida Building Code—Building and the Florida Building Code—Residential, provided the design and installation are in accordance with the 2015 International Building Code® provisions noted in the evaluation report.

Use of the Flood Flaps flood vents 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 9N-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 September 2020.

