U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency

National Flood Insurance Program



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

opy all pages of this Elevation Certificate and all attachments for (1) community official, (2) ins SECTION A – PROPERTY INFORMATION	FOR INSURANCE COMPANY US
A1. Building Owner's Name: James Lebaron & Darleen Lebaron	Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box 501 Yawl Lane	Company NAIC Number:
City: Longboat Key State: F	L ZIP Code: 34228
A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Par Country Club Shores Unit 2, Block G, Lot 10 PID# 0010160007	rcel Number:
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): Residen	tial
A5. Latitude/Longitude: Lat. 27.340168° Long82.595562° Horiz. Dat	tum: 🗌 NAD 1927 🔀 NAD 1983 🗌 WGS
A6. Attach at least two and when possible four clear color photographs (one for each side) of	of the building (see Form pages 7 and 8).
A7. Building Diagram Number:1B	
A8. For a building with a crawlspace or enclosure(s):	
a) Square footage of crawlspace or enclosure(s): N/A sq. ft.	
b) Is there at least one permanent flood opening on two different sides of each enclosed	d area? 🗌 Yes 🗌 No 🔯 N/A
c) Enter number of permanent flood openings in the crawlspace or enclosure(s) within Non-engineered flood openings: N/A Engineered flood openings:	1.0 foot above adjacent grade: N/A
d) Total net open area of non-engineered flood openings in A8.c:N/A sq. in.	
e) Total rated area of engineered flood openings in A8.c (attach documentation – see Ir	nstructions): N/A sq. ft.
f) Sum of A8.d and A8.e rated area (if applicable – see Instructions): N/A	sq. ft. RECEIVED
9. For a building with an attached garage:	2 A Employ Colonia II V Govern Ingo
a) Square footage of attached garage: 624 sq. ft.	MAY 0 1 2024
b) Is there at least one permanent flood opening on two different sides of the attached g	garage? NoN BRIAT KEY Planning, Zoning & Building
c) Enter number of permanent flood openings in the attached garage within 1.0 foot about Non-engineered flood openings: 0 Engineered flood openings:	ove adjacent grade:
d) Total net open area of non-engineered flood openings in A9.c:0 sq.	in.
e) Total rated area of engineered flood openings in A9.c (attach documentation - see Ir	nstructions): 660 sq. ft.
f) Sum of A9.d and A9.e rated area (if applicable – see Instructions): N/A	sq. ft.
SECTION B - FLOOD INSURANCE RATE MAP (FIRM)	INFORMATION
31.a. NFIP Community Name: Town of Longboat Key B1.b. NF	IP Community Identification Number: 12512
32. County Name: Sarasota B3. State: FL B4. Map/Pane	el No.: <u>12115C0128</u> B5. Suffix: <u>G</u>
86. FIRM Index Date: 03/27/2024 B7. FIRM Panel Effective/Revised Date: 03/27/2024	3/27/2024
88. Flood Zone(s): AE B9. Base Flood Elevation(s) (BFE) (Zone A	O, use Base Flood Depth): 8' & 9'
310. Indicate the source of the BFE data or Base Flood Depth entered in Item B9: ☐ FIS ☑ FIRM ☐ Community Determined ☐ Other:	
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 Otherw Designation Date:	ise Protected Area (OPA)? Yes 🛚 No
B13. Is the building located seaward of the Limit of Moderate Wave Action (LiMWA)?	Yes 🛛 No

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

Building Street Address (including Apt., I	Unit, Suite, and/or Bldg. No.) o	or P.O. Route and Box	No.: FOI	RINSURA	ANCE CO	MPANY USE
501 Yawl Lane				y Numbe	r:	
City: Longboat Key	State: FL	_ ZIP Code: <u>34228</u>	Com	Company NAIC Number:		
SECTION C	- BUILDING ELEVATIO	N INFORMATION	SURVEY REQ	UIRED)		
C1. Building elevations are based on: *A new Elevation Certificate will be	Construction Drawings e required when construction	Building Under	er Construction* nplete.	⊠ Finish	ned Const	ruction
C2. Elevations – Zones A1–A30, AE, A99. Complete Items C2.a–h belo Benchmark Utilized: NGS BM# /	AH, AO, A (with BFE), VE, Vow according to the Building	/1_V30_V (with BFE)	AR, AR/A, AR/A Item A7. In Puerto	E, AR/A1- Rico onl	–A30, AR/ y, enter m	AH, AR/AO, eters.
Indicate elevation datum used for the o	elevations in items a) through	h h) below.				
Datum used for building elevations multi Yes, describe the source of the convergence of t	ust be the same as that used version factor in the Section	for the BFE. Convers D Comments area.	sion factor used?	☐ Ye	_	o surement used
a) Top of bottom floor (including			11.0			neters
b) Top of the next higher floor (se			25.	0 🛭 fe	eet 🗌 r	neters
c) Bottom of the lowest horizonta		structions):	N//	A 🛭 fe	eet 🗌 n	neters
d) Attached garage (top of slab):			7.	7 🛭 fe	eet 🗌 r	neters
e) Lowest elevation of Machinen (describe type of M&E and loo	v and Equipment (M&E) serv	ricing the building its area):	11.	<u>5</u> ⊠ fe	eet 🔲	meters
f) Lowest Adjacent Grade (LAG			6.	4 🛭 f	eet 🗌 I	meters
g) Highest Adjacent Grade (HAC			7.	2 🛭 f	eet 🗌	neters
h) Finished LAG at lowest elevar support:			6.	<u>8</u> ⊠ f	eet 🗌	meters
	D - SURVEYOR, ENGI	NEER, OR ARCHIT	ECT CERTIFIC	ATION		
This certification is to be signed and sinformation. I certify that the information of the statement may be punishable by	sealed by a land surveyor, el ion on this Certificate represe	ngineer, or architect a ents my best efforts to r 18 U.S. Code, Section	uthorized by state interpret the dat on 1001.	a availabl	e. Turiders	torial diry
Were latitude and longitude in Section	n A provided by a licensed la	and surveyor? 🛛 Ye	es No Tow	VOELO	0 1 2024	
Check here if attachments and de	scribe in the Comments area	a.	Pla	nning, Zor	NGBOA	TKEY
Certifier's Name: Martin S Britt	Lica	ense Number: PSM	5538			
Title: Professional Surveyor & M	apper			ME	Am 1	BA
Company Name: MSB Surveying,	Inc.			11 100		
Address: 536 Interstate Court				وَمَا	22	38
City: Sarasota	State:	FL ZIP Code:	34240	1	1/25	38 12029
Telephone: (941) 341-9935	Ext.: Email: msb	@msbsurveying.co	m			3 5 5
Signature: Mathor	t E	Date: <u>04</u>	/25/2024		Place Sea	al Here
Copy all pages of this Elevation Certifi	cate and all attachments for (1) community official, ((2) insurance ager	t/compan	y, and (3) I	ouilding owner
Comments (including source of conv 2 story structure. A5. determined Flood Flap, LLC, model # FFWF0 elevated AC platform in left side 12115C0128F, map & index date NOTE: Page 9 added for addition	by LABINS website. A9.a 08, ICC-ES Report No. ES wall of structure (see Pho ed 11/04/2016.	a-f) denotes garage SR-3560 (attached) to Four, Page 8). St	, 3 Engineered of rated 220sq.in tructure permitte	openings per unit	manufac . C2.e) de	tured by enotes

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

Build	ing Street Address (including Ap	ot., Unit, Suite, and/or Bld	g. N o.) (or P.O. Route and Box No.:	FOR INSURANC	E COMPANY USE
501	Yawl Lane				Policy Number:	公司 1000 1000 1000 1000 1000 1000 1000 10
City:	Longboat Key	State:	FL	_ ZIP Code: <u>34228</u>	Company NAIC Number:	
	SECTION E -	BUILDING MEASUR OR ZONE AO, ZONE	EMEN AR/A	T INFORMATION (SURV D, AND ZONE A (WITHO	YEY NOT REQUIRED OUT BFE)	
inten	Cones AO, AR/AO, and A (with ded to support a Letter of Map meters.	out BFE), complete Item Change request, compl	s E1–E ete Sec	5. For Items E1–E4, use nat tions A, B, and C. Check the	ural grade, if available. I e measurement used. In	f the Certificate is Puerto Rico only
Build	ing measurements are based w Elevation Certificate will be	on: Construction D	rawings tion of t	* Building Under Constructions building is complete.	ruction* Finished C	onstruction
E1.	Provide measurements (C.2.a measurement is above or belo	in applicable Building D w the natural HAG and t	iagram) he LAG	for the following and check	the appropriate boxes to	show whether the
	a) Top of bottom floor (including crawlspace, or enclosure) is	•	og v	feet _ me	ters above or	below the HAG.
1	 Top of bottom floor (including crawlspace, or enclosure) is 				eters above or	below the LAG.
	For Building Diagrams 6–9 wit		ings pro	vided in Section A Items 8 a	nd/or 9 (see pages 1–2	of Instructions), the
	next higher floor (C2.b in appli Building Diagram) of the buildi				ters above or	below the HAG.
E3.	Attached garage (top of slab) i	s:		feet me	ters above or	below the HAG.
	Top of platform of machinery a servicing the building is:	and/or equipment		feet	eters above or	below the HAG.
E5.	Zone AO only: If no flood dept floodplain management ordina	h number is available, is nce?	the top	of the bottom floor elevated Jnknown The local officia	in accordance with the or all must certify this inform	
	SECTION F - PROPE	RTY OWNER (OR OV	WNER'	S AUTHORIZED REPRE	SENTATIVE) CERTIF	ICATION
The	property owner or owner's auth	norized representative w	ho com	pletes Sections A, B, and E	for Zone A (without BFE) or Zone AO must
-	here. The statements in Section Check here if attachments and					
_	erty Owner or Owner's Author					
	ess:					
				State:	ZIP Code:	
	phone:	Ext.: Email:				
Sign	ature:			Date:		
Com	ments:				CEIVED	
				1.	1AY 0 1 2024	
				TOWN (OF LONGBOAT KE'	(

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.:	FOR INSURANCE COMPANY USE
501 Yawl Lane	Policy Number:
City: Longboat Key State: FL ZIP Code: 34228	Company NAIC Number:
SECTION G - COMMUNITY INFORMATION (RECOMMENDED FOR COMMUNITY	TY OFFICIAL COMPLETION)
The local official who is authorized by law or ordinance to administer the community's floodplain ma Section A, B, C, E, G, or H of this Elevation Certificate. Complete the applicable item(s) and sign be	anagement ordinance can complete elow when:
G1. The information in Section C was taken from other documentation that has been signed engineer, or architect who is authorized by state law to certify elevation information. (Included elevation data in the Comments area below.)	l and sealed by a licensed surveyor, dicate the source and date of the
G2.a. A local official completed Section E for a building located in Zone A (without a BFE), Zo E5 is completed for a building located in Zone AO.	ne AO, or Zone AR/AO, or when item
G2.b. A local official completed Section H for insurance purposes.	
G3. In the Comments area of Section G, the local official describes specific corrections to the	ne information in Sections A, B, E and H.
G4. The following information (Items G5–G11) is provided for community floodplain manage	ement purposes.
G5. Permit Number: G6. Date Permit Issued:	
G7. Date Certificate of Compliance/Occupancy Issued:	
G8. This permit has been issued for: New Construction Substantial Improvement	
G9.a. Elevation of as-built lowest floor (including basement) of the building:	meters Datum:
G9.b. Elevation of bottom of as-built lowest horizontal structural member:	meters Datum:
G10.a. BFE (or depth in Zone AO) of flooding at the building site:	meters Datum:
G10.b. Community's minimum elevation (or depth in Zone AO) requirement for the lowest floor or lowest horizontal structural member:	meters Datum:
G11. Variance issued? Yes No If yes, attach documentation and describe in the Co	omments area.
The local official who provides information in Section G must sign here. I have completed the information to the best of my knowledge. If applicable, I have also provided specific corrections in the G	mation in Section G and certify that it is
Local Official's Name: Title:	
NFIP Community Name:	
Telephone: Ext.: Email:	
Address:	
City: State:	ZIP Code:
Signature: Date:	
Comments (including type of equipment and location, per C2.e; description of any attachments; ar Sections A, B, D, E, or H):	nd corrections to specific information in
RE	CEIVED
· · · · · · · · · · · · · · · · · · ·	1AY 0 1 2024
	OF LONGBOAT KEY
Plenni	ing, Zoning & Building

	IMPORT	ANT: MUST FOLLOW T				TOTAL CONTRACT		
Building Stre 501 Yawl L	,	pt., Unit, Suite, and/or Blo	dg. No.)	or P.O. Route and	Box No.:	FOR IN	SURANCE COMPANY U	SE
City: Long		State:	FL	ZIP Code: 342	228		umber: y NAIC Number:	
		- BUILDING'S FIRST					ZONES	
to determine nearest tent	the building's first floo h of a foot (nearest ter	or height for insurance pu	rposes. Rico). Re	Sections A, B, and eference the Four	nd I must als Indation Typ	o be complet be Diagrams	(at the end of Section H	
H1. Provide	the height of the top of	of the floor (as indicated	in Found	dation Type Diagr	ams) above	the Lowest A	djacent Grade (LAG):	
floor (in		A, 1B, 3, and 5–8. Top or ors only for buildings with rs) is:		1	_ feet	meters	above the LAG	
higher f		A, 2B, 4, and 6–9. Top of we basement, crawlspace			_ feet	meters meters	above the LAG	
	w (shown in the Found	ent servicing the building lation Type Diagrams at					ove the floor indicated by uilding Diagram?	the
S	ECTION I - PROPE	RTY OWNER (OR OV	VNER'S	AUTHORIZED	REPRES	ENTATIVE)	CERTIFICATION	
A, B, and H indicate in It	are correct to the best em G2.b and sign Sec	of my knowledge. Note: tion G.	If the lo	cal floodplain ma	nagement o	fficial complet	. The statements in Section H, they should comments area.	
A, B, and H indicate in It	are correct to the best em G2.b and sign Sec ere if attachments are	of my knowledge. Note: tion G. provided (including requi	If the lo	cal floodplain ma	nagement o	fficial complet	ed Section H, they should comments area.	
A, B, and H indicate in It Check he	are correct to the best em G2.b and sign Sec ere if attachments are	of my knowledge. Note: tion G.	If the lo	cal floodplain ma	nagement o	fficial complet	ed Section H, they should comments area.	
A, B, and H indicate in It	are correct to the best em G2.b and sign Sec ere if attachments are	of my knowledge. Note: tion G. provided (including requi	If the lo	cal floodplain ma	nagement o	fficial complet	ed Section H, they should comments area.	
A, B, and H indicate in It Check he Property Ow Address:	are correct to the best em G2.b and sign Sec ere if attachments are	of my knowledge. Note: tion G. provided (including requi	If the lo	cal floodplain ma	each attach	ment in the C	comments area. Code:	
A, B, and H indicate in It Check he Property Ow Address:	are correct to the best em G2.b and sign Sec ere if attachments are	of my knowledge. Note: tion G. provided (including requi ized Representative Nar	If the lo	cal floodplain ma	each attach	ment in the C	comments area. Code:	
A, B, and H indicate in It Check he Property Ow Address: City: Telephone:	are correct to the best em G2.b and sign Sec ere if attachments are	of my knowledge. Note: tion G. provided (including requi ized Representative Nar	If the lo	cal floodplain ma	each attach	ment in the C	comments area. Code:	
A, B, and H indicate in It Check he Property Ow Address: City: Telephone:	are correct to the best em G2.b and sign Sec ere if attachments are	of my knowledge. Note: tion G. provided (including requi ized Representative Nar	If the lo	cal floodplain ma	each attach	ment in the C	comments area. Code:	
A, B, and H indicate in It Check he Property Ow Address: City: Telephone:	are correct to the best em G2.b and sign Sec ere if attachments are	of my knowledge. Note: tion G. provided (including requi ized Representative Nar	If the lo	cal floodplain ma	each attach	ment in the C	comments area. Code:	
A, B, and H indicate in It Check he Property Ow Address: City: Telephone:	are correct to the best em G2.b and sign Sec ere if attachments are	of my knowledge. Note: tion G. provided (including requi ized Representative Nar	If the lo	cal floodplain ma	each attach	ment in the C	comments area. Code:	
A, B, and H indicate in It Check he Property Ow Address: City: Telephone:	are correct to the best em G2.b and sign Sec ere if attachments are	of my knowledge. Note: tion G. provided (including requi ized Representative Nar	If the lo	cal floodplain ma	each attach	ment in the C	comments area. Code:	
A, B, and H indicate in It Check he Property Ow Address: City: Telephone:	are correct to the best em G2.b and sign Sec ere if attachments are	of my knowledge. Note: tion G. provided (including requi ized Representative Nar	If the lo	cal floodplain ma	each attach	ment in the C	comments area. Code:	
A, B, and H indicate in It Check he Property Ow Address: City: Telephone:	are correct to the best em G2.b and sign Sec ere if attachments are	of my knowledge. Note: tion G. provided (including requi ized Representative Nar	If the lo	cal floodplain ma	each attach	REC MAY OWN OF L	comments area. Code: 0 1 2024 ONGBOAT KEY	
A, B, and H indicate in It Check he Property Ow Address: City: Telephone:	are correct to the best em G2.b and sign Sec ere if attachments are	of my knowledge. Note: tion G. provided (including requi ized Representative Nar	If the lo	cal floodplain ma	each attach	REC MAY OWN OF L	comments area. Code:	
A, B, and H indicate in It Check he Property Ow Address: City: Telephone:	are correct to the best em G2.b and sign Sec ere if attachments are	of my knowledge. Note: tion G. provided (including requi ized Representative Nar	If the lo	cal floodplain ma	each attach	REC MAY OWN OF L	comments area. Code: 0 1 2024 ONGBOAT KEY	

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

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite	ox No.: FOR INSURANCE COMPANY USE			
501 Yawl Lane				Policy Number:
City: Longboat Key	_ State: _	FL	_ ZIP Code: <u>3422</u>	

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: (04/25/2024) Front View

Clear Photo One



Photo Two

Photo Two Caption: (04/25/2024) Right Side from Front

Clear Photo Two

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

Continuation Page

Building Street Address (including Apt., Unit, Suit 501 Yawl Lane	e, and/or Bl	dg. No.) d	or P.O. Route	and Box No.:	FOR INSURANCE COMPANY USE
City: Longboat Key	State:	FL	ZIP Code:	34228	Policy 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: (04/01/2024) Rear View

Clear Photo Three



Photo Four

Photo Four Caption: (04/01/2024) Left Side from Rear View, Elevated AC Enclosure with Panel Gate

Clear Photo Four

(04/25/2024) 2 Engineered Flood Flap Vents Left Side in Garage Wall, Tankless Water Heater on Wall =13.1'



(04/25/2024) 1 Engineered Flood Flap Vent Front in Garage Wall







ICC-ES Evaluation Report

ESR-3560

Reissued September 2023

This report also contains:

- CBC Supplement

- FBC Supplement

Subject to renewal September 2024

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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



COPY OF RECORD

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012 and 2009 International Building Code® (IBC)
- 2021, 2018, 2015, 2012 and 2009 International Residential Code® (IRC)

Properties evaluated:

- Physical operation
- Water flow
- Weathering

TOWN OF LONGBOATKEY Pianning Zoning & Building

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

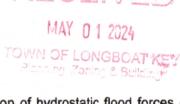
3.1 General:

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 (2021, 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 multi-purpose 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 ½ inch by ¼-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 (2021, 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 squarefeet (20 m²) of enclosed area.
- Below the base flood elevation.
- With the bottom of the FV located a maximum of12 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 April 2021).

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-3560) along with the name, registered trademark, or registered logo of the report holder (Flood Flaps®) must be included in the product label.
- 7.2 In addition, the Flood Flaps® models described in this report are identified by a label bearing the model number.
- 7.3 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 ² (ft ²)	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 x 7 ³ / ₄ x 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 f^{12} = 0.093 m^2

¹For under-floor ventilation only.
²The enclosed coverage area in square feet for each model is equivalent to the performance of the same number of square inches of non-engineered openings.

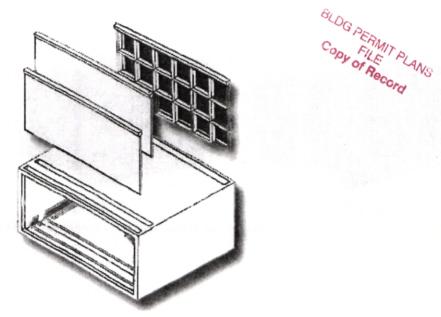


FIGURE 1—FLOOD FLAPS® AUTOMATIC FLOOD VENT

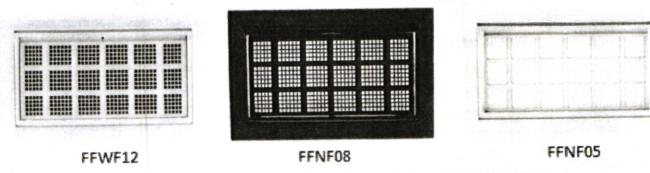


FIGURE 2—FLOOD FLAPS® AUTOMATIC FLOOD VENT SERIES MODELS

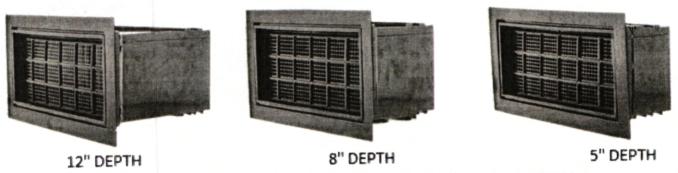


FIGURE 3—FLOOD FLAPS® AUTOMATIC FLOOD VENTS MULTIPLE DEPTH OFFERINGS



ICC-ES Evaluation Report

ESR-3560 CBC and CRC Supplement

Reissued September 2023

This report is subject to renewal September 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:

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 editions:

- 2022 California Building Code (CBC)
- 2022 California Residential Code (CRC)

For evaluation of applicable Chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) 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.

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 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 Flood Flaps® automatic flood vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-3560, comply with 2021 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 September 2023.





ICC-ES Evaluation Report

ESR-3560 FBC Supplement

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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:

- 2023 and 2020 Florida Building Code—Building
- 2023 and 2020 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 Code—Residential*, provided the design requirements are determined in accordance with the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-3530 for the 2021 and 2018 *International Building Code®* meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable.

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 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 September 2023.

