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	TION A - PROPERTY	/ INFOR	MATION		FOR INSUR	RANCE COMPANY USE
A1. Building Owne Ernest Signature C		es, LLC				Policy Num	ber:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 16 Spoonbill Drive						Company N	IAIC Number:
City State ZIP Code Richmond Hill Georgia 31324							
A3. Property Desc Lot 185 Dunham M		nd Block Numbers, Ta (2015)	ax Parce	l Number, Leg	gal Description, et	c.)	
A4. Building Use (e.g., Resider	ntial, Non-Residential,	Addition	, Accessory,	etc.) Residentia	al	
A5. Latitude/Longi	tude: Lat. 3	31°51'11.57"N	Long. 8	31°16'50.91"V	V Horizonta	Datum: NAD	1927 X NAD 1983
A6. Attach at least	2 photograp	hs of the building if th	e Certific	cate is being u	sed to obtain floo	d insurance.	
A7. Building Diagra	am Number	1B					
A8. For a building	with a crawls	space or enclosure(s):					
a) Square foo	tage of crawl	space or enclosure(s)			N/A sq ft		
b) Number of	permanent flo	ood openings in the cr	awlspac	e or enclosure	e(s) within 1.0 foot	above adjacent gra	ade N/A
c) Total net an	ea of flood of	penings in A8.b		N/A sq in	1		
d) Engineered	flood openin	ngs? Yes 🗵	No				
A9. For a building v	vith an attach	ned garage:					
a) Square foot	age of attach	ned garage		596.00 sq ft			
b) Number of p	permanent flo	ood openings in the at	tached g	arage within	1.0 foot above adi	acent grade 5	
		penings in A9.b		596.00 sq			-
d) Engineered	flood openin	gs? ⊠Yes □N	Jo				
	,	J. E					
		CTION B - FLOOD	INSURA	NCE RATE	MAP (FIRM) INF	ORMATION	
		Community Number		B2. County			B3. State
Bryan County 1300	10			Bryan (unine	corporated)		Georgia
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	RM Panel ective/ vised Date	B8. Flood Zone(s)	B9. Base Flood E (Zone AO, use	levation(s) e Base Flood Depth)
13029C0375	D	08-02-2018	08-02-2		AE	9.0	
-		Base Flood Elevation Community Deter				in Item B9:	
B11. Indicate eleva	ition datum u	ised for BFE in Item B	9: 🔲 N	GVD 1929 [X NAVD 1988	Other/Source:	***
B12. Is the building	located in a	Coastal Barrier Reso	urces Sy	/stem (CBRS) area or Otherwis	e Protected Area (0	DPA)? ☐ Yes ☒ No
Designation [CBRS	☐ OPA			
	**************************************			_			

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding information from S	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. R 16 Spoonbill Drive	oute and Box No.	Policy Number:	
	P Code 1324	Company NAIC Number	
SECTION C – BUILDING ELEVATION INFORM	ATION (SURVEY R	EQUIRED)	
	uilding Under Constru	,	
*A new Elevation Certificate will be required when construction of the buil	0	Zotto.i	
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with Complete Items C2.a–h below according to the building diagram specifie	BFE), AR, AR/A, AR d in Item A7. In Puer	/AE, AR/A1–A30, AR/AH, AR/AO. to Rico only, enter meters.	
	m: <u>NAVD 1988</u>	Minimization of the special content of the sp	
Indicate elevation datum used for the elevations in items a) through h) be	low.		
☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: Datum used for building elevations must be the same as that used for the	DEE		
Datum used for building elevations must be the same as that used for the	BFE.	Check the measurement used.	
a) Top of bottom floor (including basement, crawlspace, or enclosure flo	or)	11.0 X feet meters	
b) Top of the next higher floor		21.5 X feet meters	
c) Bottom of the lowest horizontal structural member (V Zones only)		N/A X feet meters	
d) Attached garage (top of slab)	***************************************	9.5 X feet meters	
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	-	11.2 X feet meters	
f) Lowest adjacent (finished) grade next to building (LAG)		8.6 X feet meters	
g) Highest adjacent (finished) grade next to building (HAG)		10.8 X feet meters	
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support		8.6 X feet meters	
SECTION D – SURVEYOR, ENGINEER, OR A	RCHITECT CERTIF	ICATION	
This certification is to be signed and sealed by a land surveyor, engineer, or a I certify that the information on this Certificate represents my best efforts to interest statement may be punishable by fine or imprisonment under 18 U.S. Code, So	rchitect authorized by	v law to certify elevation information	
Were latitude and longitude in Section A provided by a licensed land surveyor	? ⊠Yes □No	□ Check here if attachments.	
Certifier's Name License Number			
David A. Brunson 2538		ORG	
Title President		G REGISTERED V	
Company Name		No. 2538 *	
Southeast Georgia Surveying, P.C.		* 369	
Address 10 Miller Drive		A. BRUNE	
City State Richmond Hill Georgia	ZIP Code 31324	A. B	
Signature Date 11-11-2022	Telephone (912) 756-2211	Ext.	
Copy all pages of this Elevation Certificate and all attachments for (1) community	official, (2) insurance	agent/company, and (3) building owner.	
Comments (including type of equipment and location, per C2(e), if applicable) Job #22-23 Lot 185 Dunham Marsh Ph 3C (2015) Latitude and Longitude equipment for C2e is an A/C unit located on the right side of house. The two various Flood Flaps, LLC model # FFNF05 with a total net area of 440 square inches louver vents with a total net area of 156 square inches. Total 596 square inches	rents located at the fr The three vents in the	Google Earth. The lowest servicing ront of house are engineered vents by the garage doors are Wayne-Dalton	

ELEVATION CERTIFICATE

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

IMP	ORTANT: In these spaces, copy the correspon	FOR INSURANCE COMPANY	USE					
	lding Street Address (including Apt., Unit, Suite, ar Spoonbill Drive	nd/or Bldg. No.) or	P.O. Route and B	Box No.	Policy Number:			
City Rick	hmond Hill	State Georgia	ZIP Code 31324		Company NAIC Number			
	SECTION E – BUILDING E FOR ZON	LEVATION INFO NE AO AND ZON			REQUIRED)			
com	Zones AO and A (without BFE), complete Items Enplete Sections A, B,and C. For Items E1–E4, use er meters.	1–E5. If the Certifi natural grade, if a	cate is intended to vailable. Check th	o support a e measurer	LOMA or LOMR-F request, ment used. In Puerto Rico only,			
	E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).							
	Top of bottom floor (including basement, crawlspace, or enclosure) is		feet	meter	s above or below the H	IAG.		
	 Top of bottom floor (including basement, crawlspace, or enclosure) is 		feet	meter	s above or below the L	AG.		
E2.	For Building Diagrams 6–9 with permanent flood the next higher floor (elevation C2.b in the diagrams) of the building is	openings provided						
E3.	Attached garage (top of slab) is							
E4.	Top of platform of machinery and/or equipment servicing the building is		_	_				
E5.	Zone AO only: If no flood depth number is availal	ole, is the top of the	[_] feet bottom floor elev wn. The local of	vated in acc				
	SECTION F - PROPERTY OV	NER (OR OWNE	R'S REPRESENT	ATIVE) CE	RTIFICATION			
The	property owner or owner's authorized represental nmunity-issued BFE) or Zone AO must sign here.	tive who completes	Sections A. B. au	nd F for Zo	ne A (without a FEMA-issued or			
Pro	perty Owner or Owner's Authorized Representative	e's Name						
Add	ress	(City	Sta	te ZIP Code			
Sign	nature		Date	Tel	ephone			
Con	nments							
					Check here if attachmer	nts.		

ELEVATION CERTIFICATE

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IMPORTANT: In these spaces, copy the corre	FOR INSURANCE COMPANY USE						
Building Street Address (including Apt., Unit, S 16 Spoonbill Drive	uite, and/or Bldg. N	No.) or P.O. Route and Box	(No.	Policy Number:			
City Richmond Hill	State Georgia	ZIP Code 31324		Company NAIC Number			
SECTIO	N G - COMMUNI	TY INFORMATION (OPTI	ONAL)				
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	dinance to administ Certificate. Comp	ster the community's floods	olain man	agement ordinance can complete below. Check the measurement			
G1. 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 law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)							
G2. A community official completed Section Zone AO.	on E for a building	located in Zone A (without	t a FEMA	-issued or community-issued BFE)			
G3. The following information (Items G4-	·G10) is provided for	or community floodplain ma	anageme	ent purposes.			
G4. Permit Number	G5. Date Permit	Issued		ate Certificate of ompliance/Occupancy Issued			
G7. This permit has been issued for:	New Constructio	n	nent				
G8. Elevation of as-built lowest floor (including of the building:	g basement)		feet	meters Datum			
G9. BFE or (in Zone AO) depth of flooding at	the building site:		feet	meters Datum			
G10. Community's design flood elevation:	-		feet	meters Datum			
Local Official's Name	-	Title					
Community Name		Telephone					
Signature		Date					
Comments (including type of equipment and loc	cation, per C2(e), if	f applicable)					
	,,	,					
				Check here if attachments.			

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

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Building Street Address (including Apt 16 Spoonbill Drive	., Unit, Suite, and/or Bldg. No.)	or P.O. Route and Box No.	Policy Number:
City Richmond Hill	State Georgia	ZIP Code 31324	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 Caption Front & Right Side View (showing the lowest servicing equipment for C2e) taken 11-11-2022

Clear Photo One



Photo Two

Photo Two Caption Rear & Portion of Left Side View taken 11-11-2022

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the co	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit 16 Spoonbill Drive	, Suite, and/or Bldg. No.)	or P.O. Route and Box No.	Policy Number:
City Richmond Hill	State Georgia	ZIP Code 31324	Company NAIC Number
	Coorgia	01024	

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

Photo Three Caption Portion of Front & Left Side Views (showing vents in garage) taken 11-11-2022

Clear Photo Three

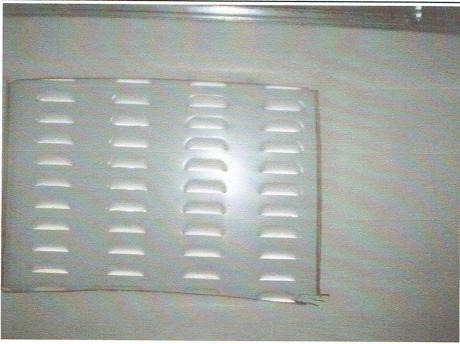


Photo Four

Photo Four Caption Typical Wayne-Dalton louver vents in garage Doors taken 11-11-2022

Clear Photo Four









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ICC-ES Evaluation Report ESR-3560

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

Reissued September 2021

This report is subject to renewal September 2022.

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 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 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

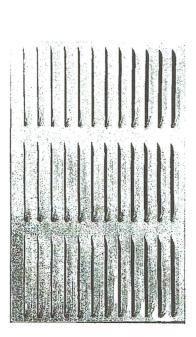
TABLE 1-FLOOD FLAP AUTOMATIC FLOOD VENT MODEL SIZES

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 × 7 ³ / ₄ × 8	220	NA
FFNF08	Multi-Purpose	16 x 8	15 ⁵ / ₈ × 7 ³ / ₄ × 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; $1 f^2 = 0.093 m^2$

¹For under-floor ventilation only





design pressures on the wind load approval drawings. Louvers are pre-painted Wayne-Dalton Louvers have been tested per ANSI/DASMA 108 and meet the white aluminum and can be installed in the bottom section of the door. For Models 5120, 9100, 9605, 8300, 8500, 5150, and 5200, each louver has 36 square inches of net area open for flood waters. For Models 8000, 8100, and 8200, each louver has 52 square inches of net area open for flood waters.