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



JUL 1 2 2023

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

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

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

FOR INSURANCE COMPANY USE SECTION A - PROPERTY INFORMATION Policy Number: A1. Building Owner's Name Clare Marie and James Warren Fox A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Company NAIC Number: Box No. 5910 Gulf of Mexico Drive State ZIP Code City 34228 Florida Longboat Key A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential A5. Latitude/Longitude: Lat. 27.419338 N Long. 82.665549 W Horizontal Datum: NAD 1927 NAD 1983 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 1B A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) N/A sq ft b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A8.b N/A sq in d) Engineered flood openings? Yes No A9. For a building with an attached garage: 804.00 sq ft a) Square footage of attached garage b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 5 c) Total net area of flood openings in A9.b 1100.00 sq in d) Engineered flood openings? ✓ Yes

✓ No SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B3. State **B2.** County Name **B1. NFIP Community Name & Community Number** Florida Manatee Town of Longboat Key 125126 B8. Flood B9. Base Flood Elevation(s) B7. FIRM Panel B5. Suffix B6. FIRM Index B4. Map/Panel (Zone AO, use Base Flood Depth) Zone(s) Date Effective/ Number **Revised Date** 9 AE 08-10-2021 08-10-2021 12081C0291 B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: ☐ FIS Profile ☑ FIRM ☐ Community Determined ☐ Other/Source: B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source: B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? | Yes | No ☐ CBRS ☐ OPA Designation Date:



ELEVATION CERTIFICATE

JUL 1 2 2023

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

IMPORTANT: In these spaces, copy the corresponding	FOR INSURANCE COMPANY USE				
Building Street Address (including Apt., Unit, Suite, and/or 5910 Gulf of Mexico Drive	Policy Number:				
City State ZIP Code Congboat Key Florida 34228			Company NAIC Number		
SECTION C – BUILDING EL					
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, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AE Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters Benchmark Utilized: W689 PID DL1840 Vertical Datum: NAVD EL 4.55 Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 NAVD 1988 Other/Source:					
Indicate elevation datum used for the elevations in it ☐ NGVD 1929 ☑ NAVD 1988 ☐ Other/S	ems a) through h) below Source:	W .	Record		
Datum used for building elevations must be the sam	e as that used for the B	FE.	Check the measurement used.		
a) Top of bottom floor (including basement, crawlsp	pace, or enclosure floor)	-	11.8 feet meters		
b) Top of the next higher floor			25.1 feet meters		
c) Bottom of the lowest horizontal structural member	er (V Zones only)		N/A feet meters		
d) Attached garage (top of slab)			5.9 🛛 feet 🗌 meters		
e) Lowest elevation of machinery or equipment ser (Describe type of equipment and location in Con	vicing the building iments)		11.6 Feet meters		
f) Lowest adjacent (finished) grade next to building	(LAG)		4.8 🔀 feet 🗌 meters		
g) Highest adjacent (finished) grade next to building	g (HAG)		5.6 🔀 feet 🗌 meters		
h) Lowest adjacent grade at lowest elevation of dec structural support	ck or stairs, including		4.5 🔀 feet 🗌 meters		
SECTION D - SURVEYOR	ENGINEER, OR ARC	CHITECT CERTIF	FICATION		
This certification is to be signed and sealed by a land su I certify that the information on this Certificate represents statement may be punishable by fine or imprisonment ur	s mv best efforts to inter	pret the data availa	y law to certify elevation information. able. I understand that any false		
Were latitude and longitude in Section A provided by a li	censed land surveyor?	⊠Yes □ No	Check here if attachments.		
Certifier's Name	License Number		manual and a second		
James B. Burchett	LS5701		PATIFICAL		
Title President			Ser. SAN		
Company Name			B Burchett &		
Sampey, Burchett and Knight, Inc.			STATE OF		
Address			1		
1570 Global Court	State	ZIP Code	CORIDA		
City Sarasota	Florida	34240	SURVEY MAN		
Signature					
James B. Burchett	Date 07-03-2023	Telephone (941) 350-0935	Ext.		
Copy all pages of this Elevation Certificate and all attachme	07-03-2023 ents for (1) community of	(941) 350-0935			
Copy all pages of this Elevation Certificate and all attachmed Comments (including type of equipment and location, per A9.(d) 5 Flood Flap Vents providing 220 sq. ft. of coverage C2(e) A/C units on both sides of residence.	07-03-2023 ents for (1) community of r C2(e), if applicable)	(941) 350-0935 fficial, (2) insurance	agent/company, and (3) building owner		
Copy all pages of this Elevation Certificate and all attachments (including type of equipment and location, per A9.(d) 5 Flood Flap Vents providing 220 sq. ft. of coverage	07-03-2023 ents for (1) community of r C2(e), if applicable)	(941) 350-0935 fficial, (2) insurance	agent/company, and (3) building owner		

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding inform	nation from Section A.	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite, and/or Bldg. 5910 Gulf of Mexico Drive	No.) or P.O. Route and Box No.	Policy Number:		
City State Longboat Key Florida	ZIP Code 34228	Company NAIC Number		
SECTION E – BUILDING ELEVATION FOR ZONE AO AN	NINFORMATION (SURVEY NOT DIZONE A (WITHOUT BFE)	REQUIRED)		
For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B,and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.				
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).				
a) Top of bottom floor (including basement, crawlspace, or enclosure) is	feet mete	rs above or below the HAG.		
b) Top of bottom floor (including basement, crawlspace, or enclosure) is	feet _ mete	rs above or below the LAG.		
E2. For Building Diagrams 6–9 with permanent flood openings p	rovided in Section A Items 8 and/o	9 (see pages 1–2 of Instructions),		
the next higher floor (elevation C2.b in the diagrams) of the building is	feet _ mete	rs above or below the HAG.		
E3. Attached garage (top of slab) is	feet mete	rs above or below the HAG.		
E4. Top of platform of machinery and/or equipment servicing the building is	feet mete	rs above or below the HAG.		
E5. Zone AO only: If no flood depth number is available, is the to floodplain management ordinance? Yes No		ccordance with the community's certify this information in Section G.		
SECTION F - PROPERTY OWNER (OR	OWNER'S REPRESENTATIVE) C	ERTIFICATION		
The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.				
Property Owner or Owner's Authorized Representative's Name				
Property Owner or Owner's Authorized Representative's Name				
Property Owner or Owner's Authorized Representative's Name Address	City S	tate ZIP Code		
		tate ZIP Code elephone		
Address				
Address Signature				
Address Signature				
Address Signature	Date T	elephone		
Address Signature	Date T	elephone		
Address Signature	Date T	elephone		
Address Signature	Date T	elephone		
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Address Signature	RECEIVEI	elephone		
Address Signature	RECEIVEI	elephone		

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspon	FOR INSURANCE COMPANY USE					
Building Street Address (including Apt., Unit, Suite, a						
5910 Gulf of Mexico Drive						
City Longboat Key	Company NAIC Number					
	Florida 34228					
	- COMMUNITY INFORMATION (OP					
The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.						
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 E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.						
G3. The following information (Items G4–G10)	is provided for community floodplain	management purposes.				
G4. Permit Number G5.	Date Permit Issued	G6. Date Certificate of Compliance/Occupancy Issued				
G7. This permit has been issued for:	v Construction ☐ Substantial Improve	ement				
G8. Elevation of as-built lowest floor (including basement) feet meters						
G9. BFE or (in Zone AO) depth of flooding at the building site:						
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 location, per C2(e), if applicable)						
RECEIVED						
JUIL 1 2 2023						
	TOWN OF LÓNGBOAT KS Planning, Zoning & Suiter	Copy of Record				
		☐ Check here if attachments.				

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008 22 Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy th	FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 5910 Gulf of Mexico Drive			Policy Number 1919 & Building	
City	State	ZIP Code	Company NAIC Number	
Longboat Key	Florida	34228		

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.



Front View 07/03/2023 Photo One Caption

ELEVATION CERTIFICATE

Clear Photo One



Right Side View 07/03/2023 Photo Two Caption

Clear Photo Two

Replaces all previous editions.

Form Page 5 of 6

RECEIVED

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

Continuation Page

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

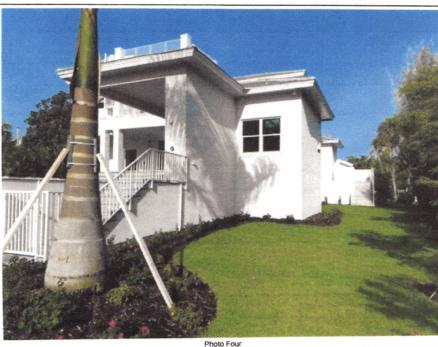
			LONGBOALKEY
IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 5910 Gulf of Mexico Drive			Policy Number:
City	State	ZIP Code	Company NAIC Number
Longboat Key	Florida	34228	

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 View of Vents 07/03/2023

Clear Photo Three



Copy FIRMIT PLANS

Photo Four Caption Left Side View 07-03-2023

Clear Photo Four







101 1 2 2023

TOWN OF LONGBOAT KEY Planning, Zoning & Building

- I-Codes provide recognition in all 50 states
- Specialty code recognition



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A Subsidiary of the International Code Council®

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 2022

This report is subject to renewal September 2023.

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 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	$15^5/_8 \times 7^3/_4 \times 5$	220	37

For SI: 1 inch = 25.4 mm; 1 f^{12} = 0.093 m^2

¹For under-floor ventilation only.



TOWN OF LONGUOAT KEY Planning, Zoning & Building

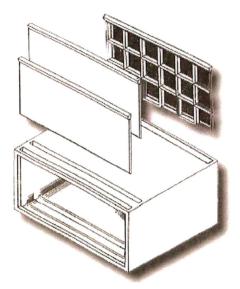


FIGURE 1—FLOOD FLAPS® AUTOMATIC FLOOD VENT

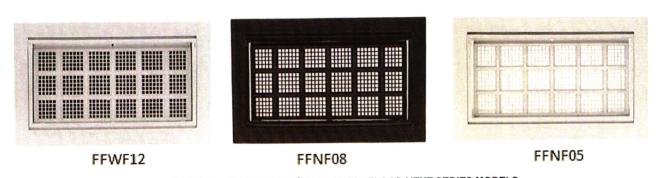


FIGURE 2—FLOOD FLAPS® AUTOMATIC FLOOD VENT SERIES MODELS

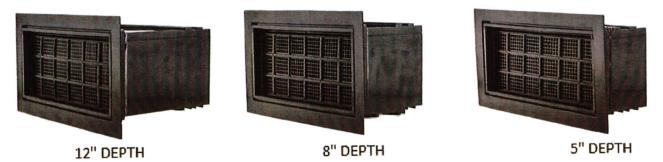


FIGURE 3—FLOOD FLAPS® AUTOMATIC FLOOD VENTS MULTIPLE DEPTH OFFERINGS



ICC-ES Evaluation Report

ESR-3560 CBC and CRC Supplement

Reissued September 2022

This report is subject to renewal September 2023.

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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 editions:

- 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) 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 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 2022.





ICC-ES Evaluation Report

ESR-3560 FBC Supplement

Reissued September 2022

This report is subject to renewal September 2023.

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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:

- 2020 Florida Building Code—Building
- 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 and the Florida 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 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 2022.



Page 5 of 5