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

BLDG, PERMIT PLANS FILE Copy of Record

OMB No. 1660-0008 Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

Copy all pages of thi	s Elevation C	ertificate and all attachr	nents f	or (1) community of	ficial, (2) insurance a	ident/compa	any, and (3) building owner.
	SEC	TION A - PROPERTY	INFO	RMATION			JRANCE COMPANY USE
A1. Building Own	ner's Name			and the second		Policy Nu	
Barry and Gail Fir							
A2. Building Stree Box No.	et Address (in	cluding Apt., Unit, Suit	e, and/	or Bldg. No.) or P.C	D. Route and	Company	NAIC Number:
560 Putting Green	Lane						
City				State		ZIP Code	
Longboat Key				Florida		34228	
Lot 5, Block J, Co	cription (Lot a untry Club Sh	and Block Numbers, Ta ores, Unit 4, Part 2	x Parc	el Number, Legal D	escription, etc.)		
A4. Building Use	(e.g., Resider	ntial, Non-Residential,	Additio	n, Accessory, etc.)	Residential		
A5. Latitude/Long	itude: Lat. M	27.348139	Long.	W 82.601628	Horizontal Datum		1927 🛛 NAD 1983
A6. Attach at leas	t 2 photograp	hs of the building if the	Certifi	cate is being used t			1027 A NAD 1963
A7. Building Diagr						1100.	
A8. For a building	with a crawls	pace or enclosure(s):					
		space or enclosure(s)		0 sq ft			
			wlence				
c) Total net a	rea of flood or	ood openings in the cra penings in A8.b 0			vithin 1.0 foot above	adjacent gi	rade
d) Engineered				sqin			
u) Engineered	nood openin	igs? 🗌 Yes 🗌 No	D				
A9. For a building	with an attach	ned garage:					
a) Square foo	tage of attach	ed garage 647		sq ft			
b) Number of	permanent flo	ood openings in the atta	ached o	garage within 1.0 fo	ot above adjacent o	rada	
			48	sq in	st above adjacent g		4
d) Engineered	flood openin	gs? 🛛 Yes 🗍 No	D	-			
		CTION B - FLOOD IN	ISURA	NCE RATE MAP	(FIRM) INFORMA	TION	
B1. NFIP Communi Longboat Key Town		ommunity Number		B2. County Name	1		B3. State
Longboat Key Town	101 125 126	-		Sarasota			Florida
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date		IRM Panel	B8. Flood Zone(s)	B9. Bas	e Flood Elevation(s)
	-		R	ffective/ evised Date		(Zoi	ne AO, use Base
12115C0126	F	11/04/2016	11/04	/2016	AE	10	3
B10. Indicate the se	ource of the E	Base Flood Elevation (E	BFE) da	ata or base flood de	epth entered in Item	BAREC	EIVED
FIS Profile	FIRM [Community Determi	ned [Other/Source:		SEP	0 9 2019
B11. Indicate eleva	tion datum us	sed for BFE in Item B9:		GVD 1929 🔀 NA	VD 1988 🔲 Oth	er/Sourcer	ONGBOAT KEY
B12. Is the building	located in a (Coastal Barrier Besour				7.01	aing and Building
		Coastal Barrier Resour			or Otherwise Protec	ted Area (C	PPA)? Ves 🛛 No
Designation D	ale:	C	BRS				,

ELEVATION CERTIFICATE OMB No. 1660-0008 Expiration Date: November 30, 2018 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. Policy Number: 560 Putting Green Lane City State **ZIP** Code Company NAIC Number Longboat Key Florida 34228 SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) C1. Building elevations are based on: Construction Drawings* Building Under Construction* X 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/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: DOT 84 A08 Vertical Datum: 9.78 NAVD Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 X NAVD 1988 Other/Source: 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 floor) 11 5 X feet meters b) Top of the next higher floor 21 8 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) 8 5 X feet meters Lowest elevation of machinery or equipment servicing the building 22 9 X feet meters (Describe type of equipment and location in Comments) f) Lowest adjacent (finished) grade next to building (LAG) 6.5 X feet meters g) Highest adjacent (finished) grade next to building (HAG) 6.7 X feet meters Lowest adjacent grade at lowest elevation of deck or stairs, including h) 3.0 X feet structural support meters SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. Were latitude and longitude in Section A provided by a licensed land surveyor? Xes O No Check here if attachments. Certifier's Name License Number James Burchett LS 5701 Title President **Company Name** NEG Sampey, Burchett and Knight, Inc. 0. 5701 Address 1 1570 Global Court City State ZIP Code Sarasota Florida 34240 Signature Date Telephone J.B. Burchett Digitally signed by J.B. Burchett Date: 2019.09.04 08:57:55 -04'00' 09/04/2019 (941) 342-0349 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) A-9. 4 FFWFO8 Flood Flap Vents were Used providing 220 sq. ft. of coverage each totaling 880 sq. ft of coverage. C2(e) A/C unit or the right side rear of residence 2nd floor

ELEVATION CERTIFICATE			OMB No. 166 Expiration Da	0-0008 te: November 30, 2018
IMPORTANT: In these spaces, copy the corresp	onding informatio	n from Section A.	The second se	ANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, 560 Putting Green Lane			lo. Policy Number	
City Longboat Key	State Florida	ZIP Code 34228	Company NA	IC Number
SECTION E - BUILDING			NOT PEOUIDED	
FOR Z	ONE AO AND ZO	NE A (WITHOUT BFE)		
For Zones AO and A (without BFE), complete Items complete Sections A, B,and C. For Items E1–E4, u enter meters.	s E1–E5. If the Cer se natural grade, if	tificate is intended to sup available. Check the me	port a LOMA or LOM asurement used. In I	/IR-F request, Puerto Rico only,
 E1. Provide elevation information for the following the highest adjacent grade (HAG) and the low a) Top of bottom floor (including basement, 	and check the appressed adjacent grade	opriate boxes to show w (LAG).	hether the elevation	is above or below
crawlspace, or enclosure) is b) Top of bottom floor (including basement,		[] feet []	meters above	or 🔲 below the HAG.
crawlspace, or enclosure) is		feet []	contra-	or 🔲 below the LAG.
E2. For Building Diagrams 6–9 with permanent floor the next higher floor (elevation C2.b in	od openings provide	ed in Section A Items 8 a	and/or 9 (see pages '	1-2 of Instructions),
the diagrams) of the building is E3. Attached garage (top of slab) is	·	[] feet []		or below the HAG.
E4. Top of platform of machinery and/or equipmen	+ · · · ·	feet	meters above of	or below the HAG.
servicing the building is		feet		or below the HAG.
E5. Zone AO only: If no flood depth number is avai floodplain management ordinance? Yes	ilable, is the top of t	he bottom floor elevated nown. The local official r	in accordance with t must certify this infor	the community's mation in Section G.
SECTION F - PROPERTY C	the second s	and the second		
The property owner or owner's authorized represen community-issued BFE) or Zone AO must sign here	e. The statements in	es Sections A, B, and E to Sections A, B, and E ar	for Zone A (without a re correct to the best	FEMA-issued or of my knowledge.
Property Owner or Owner's Authorized Representation	tive's Name			
Address		City	State	ZIP Code
Signature		Date	Telephone	
Comments	*****		and the second	
			Check	here if attachments.

• • • •

ELEVATION CERTIFICATE			OMB No. 1660-0008 Expiration Date: November 30, 2018
IMPORTANT: In these spaces, copy the corr	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, S 560 Putting Green Lane	Suite, and/or Bldg.	No.) or P.O. Route and Box	No. Policy Number:
City Longboat Key	State Florida	ZIP Code 34228	Company NAIC Number
SECTI	ON G - COMMUN	ITY INFORMATION (OPTIO	NAL)
The local official who is authorized by law or o Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, er G1.	ter meters.	plete the applicable item(s) a sumentation that has been sid	nd sign below. Check the measurement
data in the Comments area below.)	zed by law to certil	y elevation information. (Indi	cate the source and date of the elevation
or zone AO.			a FEMA-issued or community-issued BFE)
G3. The following information (Items G4-	-G10) is provided	for community floodplain mai	nagement purposes.
G4. Permit Number	G5. Date Permi	t Issued	G6. Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:] New Construction	on 🔲 Substantial Improveme	ent
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:	C] feet 🔲 meters Datum
G10. Community's design flood elevation:		C	feet inters Datum
Local Official's Name		Title	
Community Name		Telephone	
Signature		Date	
Comments (including type of equipment and loc	cation, per C2(e), i	f applicable)	
			Check here if attachments.

1. 1. 1

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, c	opy the corresponding information	on from Section A.	FOR INSURANCE COMPANY USE	
560 Putting Green Lane	Apt., Unit, Suite, and/or Bldg. No.)	or P.O. Route and Box No.	Policy Number:	
City Longboat Key	State Florida	ZIP Code	Company NAIC Number	
	FIORIDa	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.



Photo One Caption Right Side



Photo Two Caption Rear

FEMA Form 086-0-33 (7/15)

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

Continuation Page

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, cop	v the corresponding informati	on from Section A	
Building Street Address (including A 560 Putting Green Lane	FOR INSURANCE COMPANY USE Policy Number:		
City Longboat Key	State Florida	ZIP Code 34228	Company NAIC Number

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.







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ICC-ES Evaluation Report

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ESR-3560

Reissued 09/2018 This report is subject to renewal 09/2019.

DIVISION: 08 00 00—OPENINGS SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

BLDG. PERMIT PLANS

REPORT HOLDER:

FLOOD FLAPS®, LLC

EVALUATION SUBJECT:

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



"2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence"

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ICC-ES Evaluation Report

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ESR-3560

Reissued September 2018

This report is subject to renewal September 2019.

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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

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

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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:

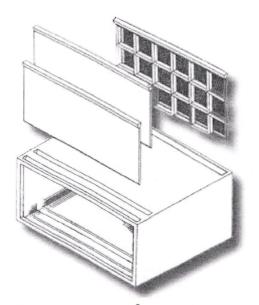
FLOOD FLAPS[®], LLC POST OFFICE BOX 1003 ISLE OF PALMS, SOUTH CAROLINA 29451 (843) 881-0190 <u>www.floodflaps.com</u> info@floodflaps.com

MODEL NUMBER	MODEL DESIGNATION	ROUGH OPENING (Width X Height) (inches)	VENT SIZE (W X H X D) (inches)	ENCLOSED AREA COVERAGE (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

TABLE 1—FLOOD FLAP AUTOMATIC FLOOD VENT MODEL SIZES

For **SI**: 1 inch = 25.4 mm; 1 f^{t2} = 0.093 m²

¹For under-floor ventilation only.



AG: OF AMIT PLANS

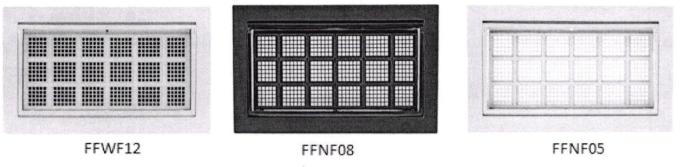


FIGURE 2—FLOOD FLAPS® AUTOMATIC FLOOD VENT SERIES MODELS

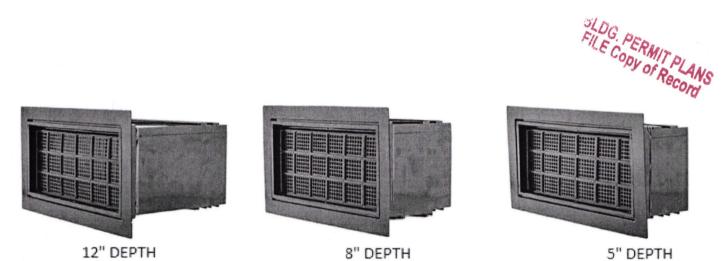


FIGURE 3—FLOOD FLAPS® AUTOMATIC FLOOD VENTS MULTIPLE DEPTH OFFERINGS



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ESR-3560 FBC Supplement

Reissued September 2018 This report is subject to renewal September 2019.

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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, recognized in ICC-ES master 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 master 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 master 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 master report, reissued September 2018.

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FLORIDA DEPARTMENT OF Business & Professional Regulation



Florida Department of Business pa lation

FL17381-R1

Affirmation

Approved

BCIS Home Log Out User Registration Hot Topics Submit Surcharge Stats & Facts Publications FBC Staff BCIS Site Map Links Search

ly. Regulate fairly.

Product Approval

USER: Doug Davinroy, Flood Flaps, LLC, Product Manufacturer

Product Approval Menu > Product or Application Search > Application List > Application Detail

FL # Application Type Code Version **Application Status**

Comments Archived

Product Manufacturer Address/Phone/Email

Authorized Signature

Technical Representative Address/Phone/Email

Quality Assurance Representative Address/Phone/Email

Category Subcategory

Compliance Method

Evaluation Entity Quality Assurance Entity Quality Assurance Contract Expiration Date Validated By

Certificate of Independence

Referenced Standard and Year (of Standard)

Equivalence of Product Standards Certified By

Sections from the Code

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*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

Flood Flaps, LLC 3594 Holmgren St. MOUNT PLEASANT, SC 29466 (843) 881-0190 dd@floodflaps.com

Doug Davinroy dd@floodflaps.com

Doug Davinroy 3594 Holmgren St. MOUNT PLEASANT, SC 29466 (843) 881-0190 dd@floodflaps.com

Doug Davinroy 3594 Holmgren St. MOUNT PLEASANT, SC 29466 (843) 881-0190 dd@floodflaps.com

Structural Components Products Introduced as a Result of New Technology

Evaluation Report from a Product Evaluation Entity

ICC Evaluation Service, LLC RADCO, INC. 09/01/2017 ICC Evaluation Service, LLC.

FL17381 R1 COI Certificate of Independence for Evaluation.pdf

Standard ASCE 24

Year 2005

I affirm that there are no changes in the new Florida Building Code which affect my product(s) and my product(s) are in

2014

compliance with the new Florida Building Code.

Documentation from approved Evaluation or Validation Entity $$$\odot_{\mbox{Yes}}$$\odot_{\mbox{No}}$$\odot_{\mbox{N/A}}$$

	FL17381 R1 COC ESR-3560.pdf	BLDG. PER
Product Approval Method	Method 1 Option C	COPY OF PLAN
Date Submitted	08/31/2015	Record S
Date Validated	08/31/2015	
Date Pending FBC Approval		
Date Approved	11/12/2015	

Summary of Products

FL #	Model, Number or Name	Description	
17381.1 Flood Flaps automatic foundation flood vents		FFWF05, FFNF05, FFWF08, FFNF08, FFWF12, FFNF12	
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other:		Installation Instructions FL17381 R1 II Flood Flap installation guide 20141001.pdf Verified By: ICC Evaluation Service, LLC Created by Independent Third Party: Evaluation Reports FL17381 R1 AE ESR-3560.pdf	

Back Next

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11/12/2015