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.

SECTION A - PROPERTY INFORMATION						FOR INSUR	FOR INSURANCE COMPANY USE		
A1. Building Owner's Name						Policy Numb	er:		
	Fritz E. and E. Pembrooke Attaway								
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Company NAIC Number:							AIC Number:		
660 Cedar St.									
City Longboat Key				State Florida		ZIP Code 34228	Copy FILE PLANS		
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)									
SW 40' of Lot 4 and the NE 30' of Lot 5, Block 4, Longbeach									
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential									
A5. Latitude/Longitu	de: Lat. 27	7.435857 N	Long. 82	2.681583 W	Horizontal	Datum: NAD 1	927 🛛 NAD 1983		
A6. Attach at least 2	photograpl	ns of the building if the	Certifica	ate is being us	sed to obtain flood	insurance.			
A7. Building Diagran	n Number	6							
A8. For a building wi	ith a crawls	pace or enclosure(s):							
 a) Square foota 	ge of crawls	space or enclosure(s)		1-	425.00 sq ft				
b) Number of pe	rmanent flo	od openings in the cra	wispace	or enclosure	(s) within 1.0 foot	above adjacent gra	de 12		
c) Total net area	of flood op	enings in A8.b	2	640.00 sq in	DEC	CEIVED			
d) Engineered fl	lood openin	gs? ⊠Yes □N	o		1 1	JLIVEL	<i>J</i>		
A0 F building with					ΔI	G- 3 1 2023			
A9. For a building wit				N/A 0		F LONGBOAT K	FY		
a) Square footage of attached garageN/A sq ft Planning, Zoning & Building									
b) Number of pe	ermanent flo	ood openings in the att	ached ga	arage within 1	.0 foot above adja	icent grade N/A			
c) Total net area	of flood op	enings in A9.b		N/A sq	in				
d) Engineered fl	ood openin	gs? ☐ Yes ☒ N	ю						
			NOUDA	NOT DATE	MAD (FIDM) INF	DEMATION			
		CTION B - FLOOD I	NSUKA			DRMATION	B3. State		
B1. NFIP Community Town of Longboat K		community Number		B2. County Manatee	Name		Florida		
B4. Map/Panel	B5. Suffix	B6. FIRM Index		RM Panel	B8. Flood Zone(s)	B9. Base Flood E	llevation(s) e Base Flood Depth)		
Number		Date		ective/ vised Date			e base i lood bepany		
12081C0291	F	08-10-2021	08-10-2	2021	AE	9			
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)?									
1	Designation Date: CBRS OPA								
							Form Bogo 1 of		

· 3

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 l 660 Cedar St.	Policy Number	Policy Number:							
City State ZIP Code			Company NAIC Number						
Longboat Key Florid	da 3422	28							
SECTION C - BUILDING ELE	VATION INFORMAT	TION (SURVEY RE	EQUIRED)	•					
C1. Building elevations are based on: Construction	C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction								
*A new Elevation Certificate will be required when co		•							
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: BM MCBE 22 Vertical Datum: NAVD EL14.25									
Indicate elevation datum used for the elevations in ite									
□ NGVD 1929 ☑ NAVD 1988 □ Other/S									
Datum used for building elevations must be the same		BFE.	Charle the						
a) Top of bottom floor (including basement, crawlspa	ace or enclosure floor	i i	4.5 A fe	e measurement used.					
b) Top of the next higher floor	ice, or endosure noor,		14.8 🔀 fe	_					
	(A/ Zonos only)	W-44	N/A 🛭 fe	_					
c) Bottom of the lowest horizontal structural member	(v Zories orily)		N/A 🛭 fe						
d) Attached garage (top of slab) e) Lowest elevation of machinery or equipment service.	icing the building			_					
(Describe type of equipment and location in Comr	ments)			eet meters					
f) Lowest adjacent (finished) grade next to building		***************************************							
g) Highest adjacent (finished) grade next to building			3.7 × fe	eet meters					
h) Lowest adjacent grade at lowest elevation of declestructural support	c or stairs, including		3.7 🛭 fe	eet meters					
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION									
This certification is to be signed and sealed by a land sun I certify that the information on this Certificate represents statement may be punishable by fine or imprisonment und	my best efforts to inter	pret the data availa	law to certify able. I understa	elevation information. and that any false					
Were latitude and longitude in Section A provided by a lic	ensed land surveyor?	⊠Yes □No	Check	here if attachments.					
Certifier's Name	License Number LS5701		1970	BIB Commen					
James B. Burchett Title	Print lead of		.8	BURCH					
President	REC	EIVED	7:4	S. C. SALL					
Company Name	AUG	3 1 2023		No. 5701					
Sampey, Burchett and Knight, Inc.	TOWN OF	- Chicago	9	STATE OF					
Address 1570 Global Court	Planning;	Zoning & Building	7						
City	State	ZIP Code	160	LORIDA &					
Sarasota	Florida	34240	Tun,	ORVE THE THE THE THE THE THE THE THE THE TH					
Signature Durchet	Date 04-17-2023	Telephone (941) 350-0935	Ext.						
Copy all pages of this Elevation Certificate and all attachmen	nts for (1) community of	fficial, (2) insurance	agent/company	y, and (3) building owner.					
Comments (including type of equipment and location, per A8. (b) 12 Flood Flap vents, model FFW12, providing 220 C2.(e) A/C unit on hanger rear of residence.		r vent for a total of 2	2,640 sq. ft of o	coverage.					

1.

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

IMPORTANT: In these spaces, copy the correspond	FOR INSURANCE COMPANY USE						
Building Street Address (including Apt., Unit, Suite, ar	Policy Number:						
660 Cedar St.							
City		P Code	Company NAIC Number				
Longboat Key		1228					
SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)							
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 an the highest adjacent grade (HAG) and the lowest a) Top of bottom floor (including basement,	d check the appropriate back adjacent grade (LAG).	oxes to show whethe	r the elevation is above or below				
crawlspace, or enclosure) is		feet meter	rs above or below the HAG.				
 Top of bottom floor (including basement, crawlspace, or enclosure) is 		feet meter	rs above or below the LAG.				
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 in Sec	ction A Items 8 and/or					
E3. Attached garage (top of slab) is		feet _ meter					
E4. Top of platform of machinery and/or equipment servicing the building is		_					
E5. Zone AO only: If no flood depth number is availal floodplain management ordinance? Yes							
SECTION F - PROPERTY OV	VNER (OR OWNER'S RE	PRESENTATIVE) CI	ERTIFICATION				
The property owner or owner's authorized representa community-issued BFE) or Zone AO must sign here.	tive who completes Section The statements in Section	ons A, B, and E for Zons A, B, and E are cor	one A (without a FEMA-issued or rrect to the best of my knowledge.				
Property Owner or Owner's Authorized Representative	e's Name	WALLEST TO STREET, STR					
Address	City	St	ate ZIP Code				
Signature	Date	Te	elephone				
Comments							
			RECEIVED				
		TO	AUG 3 1 2023				
		P	NN OF LONGBOAT KEY lanning, Zoning & Building				

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Jac D. Verse of the Policy Mr. Date	. Inc. invig remobile terral page
Case data men and make of	
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	A.C. Carrier

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

IMPORTANT: In these spaces, copy the corre	FC	FOR INSURANCE COMPANY USE						
Building Street Address (including Apt., Unit, Su	No. Po	licy Number:						
660 Cedar St.								
City	State	ZIP Code	Co	mpany NAIC Number				
Longboat Key	Florida	34228						
SECTIO	N G - COMMUNIT	Y INFORMATION (OPTIC	DNAL)					
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 or Zone AO.	on E for a building	located in Zone A (without	a FEMA-iss	sued or community-issued BFE)				
G3. The following information (Items G4-	G10) is provided fo	or community floodplain ma	anagement	purposes.				
G4. Permit Number	G5. Date Permit	Issued		Certificate of pliance/Occupancy Issued				
G7. This permit has been issued for:	New Construction	n Substantial Improven	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 t	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	applicable)						
2								
				2505				
			ł	RECEIVED				
,			TO	AUG 3 1 2023				
			4	WN OF LONGBOAT KEY				
ii ii				☐ Check here if attachments.				

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, cop	FOR INSURANCE COMPANY USE		
Building Street Address (including A 660 Cedar St.	Policy Number:		
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.



Photo One

Photo One Caption Front View 04/17/23 Clear Photo One



WN OF LONGBOAT

Photo Two Caption Left Side View 04/17/23

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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

IMPORTANT: In these spaces, co	FOR INSURANCE COMPANY USE		
Building Street Address (including 660 Cedar St.	Policy Number:		
City	State	ZIP Code	Company NAIC Number
Longboat Key	Florida	34228	

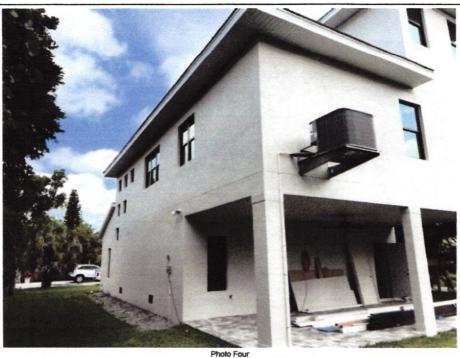
If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative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



Photo Three

Photo Three Caption Rear View 04/17/23

Clear Photo Three



AIIG 3 1 2073
OWN OF LONGBOAT KI
Planning, Zoning & Building

Photo Four Caption Right Side View 04/17/23

Clear Photo Four





ICC-ES Evaluation Report

ESR-3560

Reissued September 2020

This report is subject to renewal September 2021.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

FLOOD FLAPS®, LLC

EVALUATION SUBJECT:

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

1.0 EVALUATION SCOPE

Compliance with the following codes:

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

Properties evaluated:

- Physical operation
- Water flow
- Weathering

2.0 USES

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

3.0 DESCRIPTION

3.1 General:

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

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

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

3.2 Engineered Opening:

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

3.3 Flood Vent Series Models:

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

3.4 Natural Ventilation:

Flood Flaps® automatic FV models FFNF12, FFNF08, FFNF05, and FFNF02 have metal screens with 1/4 inch by 1/4 inch (6 mm by 6 mm) openings and provide 37 square inches (0.02 m2) of net free opening to supply natural ventilation for under-floor ventilation. Flood Flaps® automatic FV models FFWF12, FFWF08, and FFWF05 have not been evaluated for use as openings for underfloor 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 OPENING¹ (in²)
	FFWF12	Sealed Series	16 x 8	$15^{5}/_{8} \times 7^{3}/_{4} \times 12$	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	$15^5/_8 \times 7^3/_4 \times 8$	220	NA
	FFNF08	Multi-Purpose	16 x 8	$15^5/_8 \times 7^3/_4 \times 8$	220	37
	FFWF05	Sealed Series	16 x 8	$15^5/_8 \times 7^3/_4 \times 5$	220	NA
	FFNF05	Multi-Purpose	16 x 8	$15^5/_8 \times 7^3/_4 \times 5$	220	37

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

¹For under-floor ventilation only.

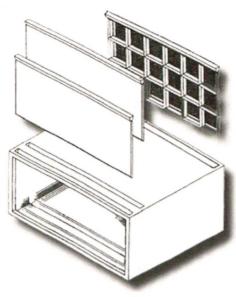


FIGURE 1—FLOOD FLAPS® AUTOMATIC FLOOD VENT



FIGURE 2—FLOOD FLAPS® AUTOMATIC FLOOD VENT SERIES MODELS

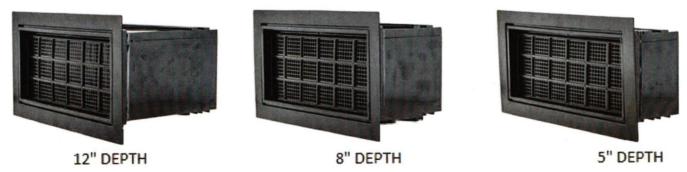


FIGURE 3—FLOOD FLAPS® AUTOMATIC FLOOD VENTS MULTIPLE DEPTH OFFERINGS



ICC-ES Evaluation Report

ESR-3560 CBC and CRC Supplement

Issued September 2020

This report is subject to renewal September 2021.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 88—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

FLOOD FLAPS®, LLC

EVALUATION SUBJECT:

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

1.0 REPORT PURPOSE AND SCOPE

Purpose:

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

Applicable code edition(s):

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

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

2.0 CONCLUSIONS

2.1 CBC:

The Flood Flaps® automatic flood vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-3560, comply with CBC Chapter 12, provided the design and installation are in accordance with the 2018 International Building Code® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 12 and 16, as applicable.

- 2.1.1 OSHPD: The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.
- 2.1.2 DSA: The applicable DSA Sections of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Flood Flaps® automatic flood vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-3560, comply with 2019 CRC, provided the design and installation are in accordance with the 2018 International Residential Code® (IRC) provisions noted in the evaluation report.

This supplement expires concurrently with the evaluation report reissued September 2020.



Page 4 of 5



ICC-ES Evaluation Report

ESR-3560 FBC Supplement

Reissued September 2020

This report is subject to renewal September 2021.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

FLOOD FLAPS®, LLC

EVALUATION SUBJECT:

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

1.0 REPORT PURPOSE AND SCOPE

Purpose:

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

Applicable code editions:

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

2.0 CONCLUSIONS

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

Use of the Flood Flaps flood vents has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the Florida Building Code—Building and the Florida Building Code—Residential.

For products falling under Florida Rule 9N-3, verification that the report holder's quality-assurance program is audited by a quality-assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official, when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the evaluation report, reissued September 2020.



