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	R INSURANCE COMPANY USE			
A1. Building Owner's Name DEBBIE & MARC ZUMOFF	Polic	cy Number:			
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or Box No. 8602 FULTON AVENUE	P.O. Route and Com	npany NAIC Number:			
City State MARGATE New Jers	ey 0840	Code 02			
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Leg LOT 1, BLOCK 614	al Description, etc.)				
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, e	tc.) RESIDENTIAL				
A5. Latitude/Longitude: Lat. 39.33250 Long74.51139	Horizontal Datum:	NAD 1927 × NAD 1983			
A6. Attach at least 2 photographs of the building if the Certificate is being us	sed to obtain flood insurance.				
A7. Building Diagram Number7					
A8. For a building with a crawlspace or enclosure(s):					
a) Square footage of crawlspace or enclosure(s) 19	546.00 sq ft				
b) Number of permanent flood openings in the crawlspace or enclosure	(s) within 1.0 foot above adjac	cent grade 8			
c) Total net area of flood openings in A8.b 2450.00 sq in					
d) Engineered flood openings? X Yes No					
A9. For a building with an attached garage:					
a) Square footage of attached garage N/A sq ft					
b) Number of permanent flood openings in the attached garage within 1	0 foot above adjacent grade	N/A			
c) Total net area of flood openings in A9.b N/A sq i					
d) Engineered flood openings? Yes X No					
SECTION B - FLOOD INSURANCE RATE I	MAP (FIRM) INFORMATION	V 21-252			
B1. NFIP Community Name & Community Number CITY OF MARGATE 345304 B2. County N ATLANTIC	lame	B3. State New Jersey			
B4. Map/Panel B5. Suffix B6. FIRM Index Date B7. FIRM Panel Effective/ Revised Date		Flood Elevation(s) AO, use Base Flood Depth)			
34001C0434 F 08-28-2018 08-28-2018	AE 9.0				
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 X NAVD 1988 Other/Source:					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? 🗌 Yes 🖂 No					
Designation Date: CBRS OPA					

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding information from Section A. FOR INSURANCE COMPANY USE					
Building Street Address (including Apt., Unit, Suite, and/or B 8602 FULTON AVENUE	Policy Number:				
City State MARGATE New J	ZIP 0 lersey 0840		Company NAIC Number		
SECTION C - BUILDING ELEV	ATION INFORMAT	ON (SURVEY RE	QUIRED)		
C1. Building elevations are based on: Construction *A new Elevation Certificate will be required when con	5	ing Under Construct	ction* Finished Construction		
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE Complete Items C2.a–h below according to the buildin Benchmark Utilized: LOCAL BENCH	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.				
Indicate elevation datum used for the elevations in iten	ns a) through h) below	1.			
☐ NGVD 1929 🕱 NAVD 1988 🗌 Other/So					
Datum used for building elevations must be the same	as that used for the BI	FE.	Check the measurement used.		
a) Top of bottom floor (including basement, crawlspace	ce, or enclosure floor)		5.8 × feet meters		
b) Top of the next higher floor			15.2 × feet meters		
c) Bottom of the lowest horizontal structural member	(V Zones only)		N/A feet meters		
d) Attached garage (top of slab)	(* 201100 01117)		N/A feet meters		
e) Lowest elevation of machinery or equipment servic (Describe type of equipment and location in Comm	ing the building ents)		13.8 × feet meters		
f) Lowest adjacent (finished) grade next to building (l	-AG)		5.7 X feet meters		
g) Highest adjacent (finished) grade next to building (HAG)		5.9 X feet meters		
h) Lowest adjacent grade at lowest elevation of deck structural support			5.2 × feet meters		
SECTION D – SURVEYOR, E	NGINEER, OR ARC	HITECT CERTIFI	CATION 21-252		
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 lice	nsed land surveyor?	Yes □ No	○ Check here if attachments.		
	License Number GS33451				
Title PROFESSIONAL LAND SURVEYOR			(5 7354) Place		
Company Name SCHAEFFER NASSAR SCHEIDEGG, CE, LLC			Seal		
Address 1425 CANTILLON BOULEVARD			Here		
	State New Jersey	ZIP Code 08330	4/18/2000		
Signature	Date 04-18-2022	Telephone (609) 625-7400	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) ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEMS FLOOD VENTS MODEL CSBA816 RATED AT 305 SQ. IN. EACH. ITEM C2e IS THE A.C. PAD. PICTURES TAKEN 4/14/2022					

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspo	FOR INSURANCE COMPANY USE					
Building Street Address (including Apt., Unit, Suite, a 8602 FULTON AVENUE	and/or Bldg. No.) or l	P.O. Route and Box No.	Policy Number:			
City 'MARGATE	State New Jersey	ZIP Code 08402	Company NAIC Number			
SECTION E – BUILDING FOR ZO	ELEVATION INFOI ONE AO AND ZONE	RMATION (SURVEY NO E A (WITHOUT BFE))T 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 a the highest adjacent grade (HAG) and the lowe a) Top of bottom floor (including basement,	nd check the approp st adjacent grade (LA	riate boxes to show whet AG).	ner the elevation is above or below			
crawlspace, or enclosure) is b) Top of bottom floor (including basement,		feet me	ters above or below the HAG.			
crawlspace, or enclosure) is		feet me				
E2. For Building Diagrams 6–9 with permanent floor the next higher floor (elevation C2.b in the diagrams) of the building is	d openings provided	in Section A Items 8 and/				
E3. Attached garage (top of slab) is		feet _ me	ters above or below the HAG.			
E4. Top of platform of machinery and/or equipment servicing the building is			ters above or below the HAG.			
E5. Zone AO only: If no flood depth number is available floodplain management ordinance? Yes	able, is the top of the	bottom floor elevated in				
SECTION F - PROPERTY O	WNER (OR OWNER	S'S REPRESENTATIVE)	CERTIFICATION Z1-252			
The property owner or owner's authorized represent community-issued BFE) or Zone AO must sign here.	ative who completes The statements in S	Sections A, B, and E for .	Zone A (without a FEMA-issued or orrect to the best of my knowledge			
Property Owner or Owner's Authorized Representati						
Address	C	ity	State ZIP Code			
Signature	D	ate	Telephone			
Comments						
			Check here if attachments.			

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corre	FOR INSURANCE COMPANY USE				
Building Street Address (including Apt., Unit, St 8602 FULTON AVENUE	Policy Number:				
City MARGATE	State New Jersey	ZIP Code 08402	Company NAIC Number		
SECTIO	ON G - COMMUNITY INFOR	MATION (OPTIONAL)	21-252		
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 tak engineer, or architect who is authoriz data in the Comments area below.)					
G2. A community official completed Section Zone AO.					
G3. The following information (Items G4-	-G10) is provided for commur	nity floodplain manageme	ent purposes.		
G4. Permit Number	G5. Date Permit Issued		Date Certificate of compliance/Occupancy Issued		
G7. This permit has been issued for:	New Construction Subs	stantial Improvement			
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	Vin Caladino		C F M		
Community Name	In Califino Tele TARGE 49	ephone	11.871.1817		
Signature	Date	Э	04/21/00		
Comments (including type of equipment and lo	oation, per C2(e), if applicable	э)	1/21/00		
			Check here if attachments.		

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

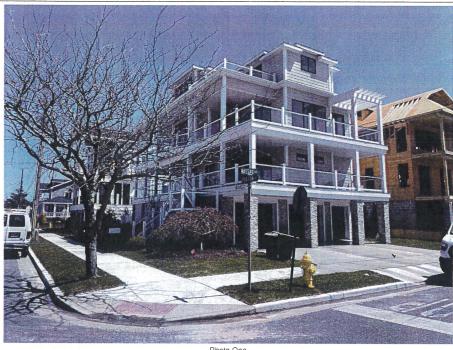
See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, 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. 8602 FULTON AVENUE				Policy Number:	
City			State	ZIP Code	Company NAIC Number
MARGATE			New Jersey	08402	

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 AND RIGHT SIDE VIEW Photo One Caption

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Clear Photo One



FRONT VIEW AND LEFT SIDE VIEW Photo Two Caption

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Ap 8602 FULTON AVENUE	Policy Number:		
City	State	ZIP Code	Company NAIC Number
MARGATE	New Jersey	08402	

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 RIGHT SIDE VIEW AND REAR VIEW

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Clear Photo Three

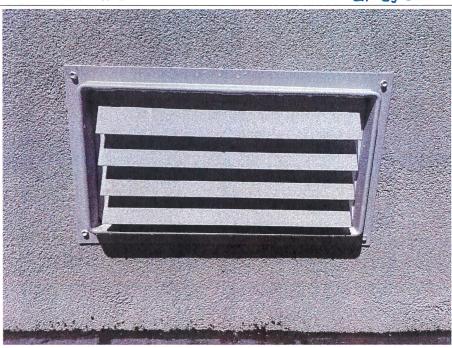


Photo Four

Photo Four Caption CRAWL SPACE DOOR SYSTEMS FLOOD VENT MODEL CSBA816 TYPICAL OF 8

Clear Photo Four



ICC-ES Evaluation Report

ESR-3851

Reissued September 2020 Revised January 2021 This report is subject to renewal September 2022.

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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:

CRAWL SPACE DOOR SYSTEMS, INC.

EVALUATION SUBJECT:

CRAWL SPACE DOOR SYSTEMS FLOOD VENT MODEL #CSBA816 CRAWL SPACE STACKED MODELS: #ICCSTACKED2; #ICCSTACKED4 FLOOD VENT INSULATED KIT #ICCINSULATED

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018 and 2015 International Building Code®
- 2018 and 2015 International Residential Code®

Properties evaluated:

- Physical operation
- Water flow
- Weathering

2.0 USES

Crawl Space Door Systems flood vents are used to provide for the equalization of hydrostatic flood forces on exterior walls

3.0 DESCRIPTIONS

3.1 General:

Crawl Space Door Systems flood vents are engineered mechanically operated flood vents. Upon contact with flood water, the flood vents automatically open and allow flood water to enter and exit enclosed areas. The vents are constructed of general purpose ABS SP-9010 plastic. The Crawl Space Flood Vent Model #CSBA816 has a faux louver with either a solid plastic plate or wire mesh attached to the back of the louver. The louver is dislodged from the vent upon contact with flood waters. See Figure 1 for an illustration of the flood vent Model #CSBA816.

The Flood Vent Insulated Kit Model #ICCINSULATED is constructed of general purpose ABS SP-9010 plastic. The vent frame opening is filled with a 2-inch thick (51 mm) extruded polystyrene Styrofoam™ Brand Scoreboard Foam Insulation Board (ESR-2142). The insulation board is dislodged from the vent upon contact with flood waters,

allowing flood waters to enter and exit enclosed areas. See Figure 2 for an illustration of the Flood Vent Insulated Kit Model #ICCINSULATED.

The Crawl Space Stacked Model #ICCSTACKED2 contains two vertically arranged Crawl Space Flood Vents (Model #CSBA816) in one assembly. The Crawl Space Stacked Model #ICCSTACKED4 contains four Crawl Space Flood Vents (Model #CSBA816) in one assembly, with two sets of side by side flood vents vertically arranged.

3.2 Engineered Opening:

The Crawl Space Door Systems static flood vents comply with the design principle noted in Section 2.7.2.2 of ASCE/SEI 24 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 24-14, the flood vents must be installed in accordance with Section 4.0 of this report.

3.3 Ventilation:

The Crawl Space Flood Vent Model #CSBA816 and Crawl Stacked Models #ICCSTACKED2 #ICCSTACKED4 are available covered with metal wire mesh with 0.108 inch by 0.108 inch (2.74 mm by 2.74 mm) openings. The mesh is covered by a faux louver with 11/16 inch (17.5 mm) vertical clearance between each blade. The Crawl Space Flood Vent Model #CSBA816 provides 11 square inches (7097 mm²) of net free area to supply natural ventilation when equipped with wire mesh. The Crawl Space Stacked Models #ICCSTACKED2 and #ICCSTACKED4 supply 22 square inches (14,194 mm²) and 44 square inches (28,388 mm²), respectively, of net free area to supply natural ventilation when equipped with wire mesh. The Crawl Space Flood Vent Model #CSBA816 covered with a solid plastic plate, Crawl Space Stacked Models #ICCSTACKED2 and #ICCSTACKED4 covered with a solid plastic plate, and the Flood Vent Insulated Kit Model #ICCINSULATED do not offer natural ventilation.

4.0 DESIGN AND INSTALLATION

The Crawl Space Door Systems flood vents are designed to be installed into walls or doors of existing or new construction from the exterior side. Installation of the vents must be in accordance with the manufacturer's instructions, the applicable code and this report. 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, the vent must be installed as follows:

With a minimum of two openings; one on different sides of each enclosed area.





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- With a minimum of one vent for the square footage of enclosed area noted in Table 1.
- Below the base flood elevation.
- With the bottom of the vent located a maximum of 12 inches (305 mm) above grade.

5.0 CONDITIONS OF USE

The Crawl Space Door Systems 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 Crawl Space Door Systems flood vents must be installed in accordance with this report, the applicable code and the manufacturer's published installation instructions. In the event of a conflict, the instructions in this report govern.
- 5.2 The Crawl Space Door Systems flood vents must not be used in the place of "breakaway walls" in coastal high hazard areas but are permitted for use in conjunction with breakaway walls in other areas.
- 5.3 The Crawl Space Door Systems flood vents are manufactured under a quality control system with inspections by ICC-ES.

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 Crawl Space Door Systems flood vents recognized in this report must be identified by a label bearing the manufacturer's name (Crawl Space Door Systems), the model number, and the evaluation report number (ESR-3851).
- 7.2 The report holder's contact information is the following:

CRAWL SPACE DOOR SYSTEMS, INC. 3669 SEA GULL BLUFF DRIVE VIRGINIA BEACH, VIRGINIA 23455 (757) 363-0005 www.crawlspacedoors.com

TABLE 1—CRAWL SPACE DOOR SYSTEMS FLOOD VENTS

MODEL	OVERALL VENT SIZE (Width x Height x Depth) (in)	ROUGH OPENING SIZE (Width x Height) (in)	ENCLOSED AREA COVERAGE (ft²)
CSBA816	18 ¹ / ₄ × 10 ¹ / ₂ × 1 ³ / ₄	16 x 8 ¹ / ₄	305
ICCINSULATED	18 ¹ / ₄ × 10 ¹ / ₂ × 1 ³ / ₄	15³/ ₄ × 8	300
ICCSTACKED2	$30 \times 30 \times 2^{3}/_{4}$	24 x 24	610
ICCSTACKED4	40 ¹ / ₂ × 24 ³ / ₄ × 2 ³ / ₄	35 ¹ / ₄ x 19 ¹ / ₂	1,220

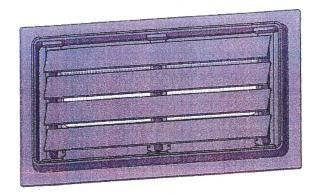


FIGURE 1—CRAWL SPACE DOOR SYSTEMS FLOOD VENT

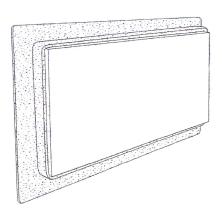


FIGURE 2—FLOOD VENT INSULATED KIT



ICC-ES Evaluation Report

ESR-3851 CBC and CRC Supplement

Issued September 2020 Revised December 2020 This report is subject to renewal September 2022.

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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:

CRAWL SPACE DOOR SYSTEMS, INC.

EVALUATION SUBJECT:

CRAWL SPACE DOOR SYSTEMS FLOOD VENT #CSBA816
CRAWL SPACE STACKED MODELS #ICCSTACKED2; #ICCSTACKED4
FLOOD VENT INSULATED KIT #ICCINSULATED

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Crawl Space Door Systems flood vents, described in ICC-ES evaluation report <u>ESR-3851</u>, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

■ 2019 California Building Code (CBC)

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.

■ 2019 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Crawl Space Door Systems flood vents, described in Sections 2.0 through 7.0 of the evaluation report <u>ESR-3851</u>, 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 Crawl Space Door Systems flood vents, described in Sections 2.0 through 7.0 of the evaluation report $\underline{ESR-3851}$, 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 and revised January 2021.





ICC-ES Evaluation Report

ESR-3851 FBC and FRC Supplement

Reissued September 2020 Revised January 2021

This report is subject to renewal September 2022.

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:

CRAWL SPACE DOOR SYSTEMS, INC.

EVALUATION SUBJECT:

CRAWL SPACE DOOR SYSTEMS FLOOD VENT #CSBA816 CRAWL SPACE STACKED MODELS #ICCSTACKED2; #ICCSTACKED4 FLOOD VENT INSULATED KIT #ICCINSULATED

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Crawl Space Door Systems flood vents, described in ICC-ES evaluation report ESR-3851, 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 Crawl Space Door Systems flood vents, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-3851, comply with the Florida Building Code—Building and Florida Building Code—Residential, provided the design requirements are determined in accordance with the Florida Building Code—Building and Florida Building Code—Residential, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-3851 for the 2018 International Building Code® meet the requirements of the he Florida Building Code—Building and Florida Building Code—Residential, as applicable.

Use of the Crawl Space Door Systems flood vents has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the 2020 Florida Building Code—Building and 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 2020 and revised January 2021.

