# 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.

Soby an bages of this riesand comments and an amount of (1) comment (2)	·		
SECTION A - PROPERTY INFORMATION		NCE COMPANY USE	
A1. Building Owner's Name  Anne Queene Queen	Policy Number		
A2. Building Street Address (including Apt., Unit, Suite, and/or Bidg. No.) or P.O. Route and Box No.	Company NAI	C Number:	
+ 60 KILG BEPLIE DONE	L		
City State Closure Closure	ZIP Code		
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)			
Spec + 60, KINGS Cape cut mobile whome	Grana		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)			
A5. Latitude/Longitude: Lat 270885.12 N Long B22527.02 Lettorizontal Date		27 HNAD 1983	
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood inst	urance.		
A7. Building Diagram Number			
A8. For a building with a crawispace or enclosure(s):			
a) Square footage of crawlspace or enclusure(s, 14973 sq ft			
b) Number of permanent flood openings in the crawispace or enclosure(s) within 1.0 foot about	ve adjacent grad	8 5	
c) Total net area of flood openings in A8.b \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
d) Engineered flood openings?			
A9. For a building with an attached garage:			
a) Square footage of attached garage 4850 39 ft			
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacer	nt grade		
c) Total net area of flood openings in A9.b sq in			
d) Engineered flood openings?  Ves  No			
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFOR	MATION		
		B3. State	
		Slow of	
Sursone Courty 125144 Surson	9, Base Flood El	mention(s)	
B4. Map/Panel B5. Suffix B6. FIRM Index Date B7. FIRM Panel Effective/ Revised Date B8. Flood Zone(a)	y, base riodd Ei (Zone AO, use	Base Flood Depth)	
12115C-0243 F 11/04/2016 11/04/2026 AE	LOFE	5	
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 1928 NAVD 1988	Other/Source:		
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise F	Protected Area (C	PA)? Yes No	
Designation Date:   CBRS  OPA			

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# **ELEVATION CERTIFICATE**

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

IMPORTANT: In these spaces, copy the corresponding information from Sect	ion A.	FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route	e and Box No.	Policy Number:	
#60 KING SURVE DENSE			
City State ZIP C	- Annual Control of the Control of t	Company NAIC Number	
NOKOMIS FLORIDA ?	34275		
SECTION C - BUILDING ELEVATION INFORMATI	ON (SURVEY RE	EQUIRED)	
C1. Building elevations are based on:   Construction Drawings*   Building	ing Under Constru	ction* Finished Construction	
*A new Elevation Certificate will be required when construction of the building			
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BF Complete Items C2.a–h below according to the building diagram specified in Benchmark Utilized:	E), AR, AR/A, AR/ I Item A7. In Puerto	o Rico only, enter meters.	
Indicate elevation datum used for the elevations in items a) through h) below	J.		
☐ NGVD 1929 ☐ NAVD 1988 ☐ Other/Source:			
Datum used for building elevations must be the same as that used for the BF	FE.		
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	11.	Check the measurement used.	
b) Top of the next higher floor	15		
c) Bottom of the lowest horizontal structural member (V Zones only)		feet meters	
d) Attached garage (top of slab)	10	. 5 Feet meters	
<ul> <li>e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)</li> </ul>	13	.2 feet meters	
f) Lowest adjacent (finished) grade next to building (LAG)	9	Teet meters	
g) Highest adjacent (finished) grade next to building (HAG)	18	feet meters	
<ul> <li>h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support</li> </ul>	10	feet meters	
SECTION D - SURVEYOR, ENGINEER, OR ARC	HITECT CERTIF	ICATION	
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?		☐ Check here if attachments.	
Certifier's Name License Number		15/05/	
Title Pls >1	109	16/22/2022	
Peacessin Smeyon & marga	P-	Plana	
Company Name			
Man Harrow Caro Surreyous, in	<b>.</b>		
Address		WILL	
		· Felson	
City State	ZIP Code	1	
they Garde Close OF	33950	PLS#5109	
Signature Date	Telephone	Ext.	
Copy all pages of this Elevation Certificate and all attachments for (1) community off	239 458 icial. (2) insurance		
		<u> </u>	
		en Veny	
d) canace close		Le (MODEL CSBABIG)	
e) \$10 PAD	ZIJ STAP		
1) Low Garre		es pepar	
9) 2304 31000			
h) Low George of Stees Ceous of	MODEL	er a 1.60	

# **ELEVATION CERTIFICATE**

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

IMPORTANT: In these spaces, copy the corresponding	g information from Section A	. FOF	R INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/o		Box No. Poli	cy Number:
City	ate ZIP Code	•	npany NAIC Number
SECTION E - BUILDING ELET FOR ZONE	/ATION INFORMATION (SU AO AND ZONE A (WITHOUT	RVEY NOT REC BFE)	(UIRED)
For Zones AO and A (without BFE), complete Items E1–icomplete Sections A, B,and C. For Items E1–E4, use nat enter meters.	ural grade, if available. Check	the measurement	used. In Puerto Rico only,
E1. Provide elevation information for the following and of the highest adjacent grade (HAG) and the lowest ad	neck the appropriate boxes to a lacent grade (LAG).	show whether the	elevation is above or below
<ul> <li>a) Top of bottom floor (including basement, crawispace, or enclosure) is</li> </ul>	[fe	et meters [	above or Delow the HAG.
<ul> <li>b) Top of bottom floor (including basement, crawispace, or enclosure) is</li> </ul>	[] fe	et [] meters [	above or below the LAG.
E2. For Building Diagrams 6–9 with permanent flood ope the next higher floor (elevation C2.b in the diagrams) of the building is			ee pages 1-2 of Instructions),  above or below the HAG.
E3. Attached garage (top of slab) is	[fe	et meters	above or below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is		et meters	above or below the HAG.
E5. Zone AO only: if no flood depth number is available floodplain management ordinance?	is the top of the bottom floor e	levated in accord official must certif	ance with the community's y this information in Section G.
SECTION F - PROPERTY OWN	ER (OR OWNER'S REPRESE	NTATIVE) CERTI	FICATION
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	who completes Sections A, B e statements in Sections A, B,	, and E for Zone A and E are correct	(without a FEMA-issued or to the best of my knowledge.
Property Owner or Owner's Authorized Representative's	Name	······································	
Address	City	State	ZIP Code
Signature	Date	Teleph	one
Comments			
			☐ Check here if attachments.

# **ELEVATION CERTIFICATE**

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

IMPORTANT: In these spaces, copy the corre	esponding information from Section A.	FOR INSURANCE COMPANY USE
	ite, and/or Bldg. No.) or P.O. Route and Box No	. Policy Number:
# 60 Knie ser	ne Deve	
City	State 7IP Code	Company NAIC Number
HOKOMIS	Floring 3427	
SECTIO	N G - COMMUNITY INFORMATION (OPTION	AL)
The local official who is authorized by law or or Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, en	dinance to administer the community's floodplair Certificate. Complete the applicable item(s) and ter meters.	n management ordinance can complete I sign below. Check the measurement
G1. The information in Section C was tak engineer, or architect who is authoriz data in the Comments area below.)	en from other documentation that has been sign ed by law to certify elevation information. (Indica	ed and sealed by a licensed surveyor, ite the source and date of the elevation
G2. A community official completed Section Zone AO.	on E for a building located in Zone A (without a	FEMA-issued or community-issued BFE)
G3. The following information (items G4-	G10) is provided for community floodplain mana	gement purposes.
G4. Permit Number	G5. Date Permit Issued	36. Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction  Substantial Improvemen	nt
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
Local Official's Name	Title	
Community Name	Telephone	
Signature	Date	
Comments (including type of equipment and lo	cation, per C2(e), if applicable)	
İ		Check here if attachments.

#### **BUILDING PHOTOGRAPHS**

**ELEVATION CERTIFICATE** 

See Instructions for Item A6.

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

The state of the s		The Control of the Co	
IMPORTANT: In these spaces, co	py the corresponding information for	rom Section A.	FOR INSURANCE COMPANY USE
	Apt., Unit, Suite, and/or Bldg. No.) or F		Policy Number:
=60 K146 A	sepula DRIVE	٤	
City	State	ZIP Code	Company NAIC Number
Horonis	flores.	32275	

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** 

Clear Photo One



Photo Two Caption

Clear Photo Two

Form Page 5 of

FEMA Form 086-0-33 (12/19)

Replaces all previous editions.

### **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	g Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and E	Box No. Policy Number:
City	State ZIP Code	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.



Photo Three Caption

Clear Photo Three



Photo Four Caption

SIDE

Clear Photo Four

Form Page 6 of

FEMA Form 086-0-33 (12/19)

Replaces all previous editions.

# **BUILDING PHOTOGRAPHS**

### **ELEVATION CERTIFICATE**

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the co	responding information from	om 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:
City	State	ZIP Code 34275	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.



1/02/2020

Photo Three Caption

OF STEPS

Clear Photo Three

Photo Four

Photo Four

Photo Four Caption

Clear Photo Four



# ICC-ES Evaluation Report

ESR-3851

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 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.





- 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	181/4 × 101/2 × 13/4	16 x 8 <sup>1</sup> / <sub>4</sub>	305
ICCINSULATED	181/4× 101/3 × 13/4	15³/ <sub>4</sub> x 8	300
ICCSTACKED2	30 x 30 x 2 <sup>3</sup> / <sub>4</sub>	24 x 24	610
ICCSTACKED4	401/2×241/4×21/4	351/2× 191/2	1,220

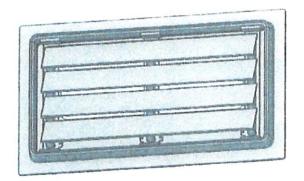


FIGURE 1-CRAWL SPACE DOOR SYSTEMS FLOOD VENT



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.

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 <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*<sup>®</sup> (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 <u>ESR-3851</u>, 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.

