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 INSUF	RANCE COMPANY USE	
A1. Building Owner's Name E & K Properties of SC, Inc. Policy Number:					ber:		
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 210 Rivers Edge Dr. Company NAIC Number:					AIC Number:		
City State ZIP Cod Conway South Carolina 29526				ZIP Code 29526			
		nd Block Numbers, Ta PIN: 363-02-04-0003	ax Parcel	Number, Leg	gal Description, e	tc.)	
A4. Building Use (e.g., Resider	ntial, Non-Residential,	Addition	, Accessory, e	etc.) Resident	ial	
A5. Latitude/Longi	tude: Lat. 3	3°49'38.76"	Long. 7	8°54'10.72"	Horizonta	al Datum: NAD 1	927 X NAD 1983
A6. Attach at least	2 photograp	hs of the building if the	e Certific	ate is being u	sed to obtain floo	od insurance.	
A7. Building Diagra	am Number	1B					
A8. For a building	with a crawls	pace or enclosure(s):					
a) Square foo	tage of crawl	space or enclosure(s)			N/A sq ft		
b) Number of p	permanent flo	ood openings in the cr	awlspace	e or enclosure	e(s) within 1.0 foo	t above adjacent gra	ide N/A
c) Total net ar	ea of flood o	penings in A8.b		N/A sq in	l		
d) Engineered	flood openir	ngs? Yes 🗶 N	No				
A9. For a building v	vith an attach	ned garage:					
a) Square foot	age of attach	ned garage		450.00 sq ft			
b) Number of	permanent flo	ood openings in the at	tached g	arage within	1.0 foot above ad	ljacent grade 2	
c) Total net ar	ea of flood op	penings in A9.b		605.00 sq	in		
d) Engineered	flood openin	gs? 🛛 Yes 🗌 N	No				
	SI	CTION B – FLOOD	INSURA	NCF RATE	MAP (FIRM) IN	FORMATION	
B1. NFIP Community Name & Community Number B2. County Name B3. State							
Horry County; 450104			Horry			South Carolina	
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	I RM Panel ective/ vised Date	B8. Flood Zone(s)	B9. Base Flood E (Zone AO, use	l levation(s) e Base Flood Depth)
45051C0560	К	12-16-2021	12-16-2		x	N/A	
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: ☐ FIS Profile X 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	g located in a	a Coastal Barrier Resc	ources Sy	/stem (CBRS) area or Otherwi	se Protected Area (0	PA)? ☐ Yes ☒ No
Designation I	Date:		CBRS	☐ OPA			

OMB No. 1660-0008 **ELEVATION CERTIFICATE** 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. Policy Number: 210 Rivers Edge Dr. City ZIP Code Company NAIC Number State Conway South Carolina 29526 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: SC VRS Vertical Datum: NAVD1988 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. 22.8 X feet a) Top of bottom floor (including basement, crawlspace, or enclosure floor) meters N/A X feet meters b) Top of the next higher floor N/A X feet c) Bottom of the lowest horizontal structural member (V Zones only) meters 20.3 X feet meters d) Attached garage (top of slab) e) Lowest elevation of machinery or equipment servicing the building 22.1 X feet meters (Describe type of equipment and location in Comments) 16.9 × feet meters f) Lowest adjacent (finished) grade next to building (LAG) 19.7 X feet g) Highest adjacent (finished) grade next to building (HAG) meters h) Lowest adjacent grade at lowest elevation of deck or stairs, including 17.2 × feet meters structural support 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. ⊠Yes ∐No Were latitude and longitude in Section A provided by a licensed land surveyor? Check here if attachments. Certifier's Name License Number Ray R. Eshelman 22753 Title PLS Company Name Palmetto Corp of Conway Address 3873 Hwy 701 N City State ZIP Code Conway South Carolina 29526 Signature Date Telephone. 06-15-2023 (843) 716-6021 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) A9. 2 CSBA816 installed. Each vent rated for 305 sq. ft. ESR-3851 Attached. B8. Parcel is in Horry County Supplemental Flood Zone "AE-19", Minimum Finished Floor to be 3' above Supplemental Flood Zone "AE-19". C2(e). A/C Unit

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 Bldg. No.) or P.O. Route and Box No. 210 Rivers Edge Dr.				Policy Number:	
City Cor	nway	State South Carolina	ZIP Code 29526	Company NAIC Number	
	SECTION E – BUILDING E FOR ZOI	LEVATION INFORM NE AO AND ZONE A		REQUIRED)	
For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B,and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters. E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below					
L1.	the highest adjacent grade (HAG) and the lowes a) Top of bottom floor (including basement, crawlspace, or enclosure) is			_	
	b) Top of bottom floor (including basement, crawlspace, or enclosure) is		feet meter	s 🔲 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 S	Section A Items 8 and/or		
E3.	Attached garage (top of slab) is		feet _ meter	s 🔲 above or 🗌 below the HAG.	
E4.	Top of platform of machinery and/or equipment servicing the building is		feet _ meter	s 🗌 above or 🗌 below the HAG.	
E5.	Zone AO only: If no flood depth number is availa floodplain management ordinance? Yes			cordance with the community's certify this information in Section G.	
	SECTION F - PROPERTY OV	WNER (OR OWNER'S	REPRESENTATIVE) CE	RTIFICATION	
The	property owner or owner's authorized representantum nmunity-issued BFE) or Zone AO must sign here.	tive who completes Se The statements in Sect	ctions A, B, and E for Zo ions A, B, and E are cori	ne A (without a FEMA-issued or rect to the best of my knowledge.	
Pro	perty Owner or Owner's Authorized Representativ	ve's Name			
Add	dress	City	Sta	ate ZIP Code	
Sig	nature	Date	Te	lephone	
Cor	nments				
				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 210 Rivers Edge Dr.	Policy Number:				
City Conway	State South Carolina	ZIP Code 29526	Company NAIC Number		
SECTION G - COMMUNITY INFORMATION (OPTIONAL)					
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 loca	ated in Zone A (without a F	EMA-issued or community-issued BFE)		
G3. The following information (Items G4–	G10) is provided for co	ommunity floodplain manaç	gement purposes.		
G4. Permit Number	G5. Date Permit Issu	G G	Date Certificate of Compliance/Occupancy Issued		
G7. This permit has been issued for:	New Construction	Substantial 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		Title			
Community Name		Telephone			
Signature Date					
Comments (including type of equipment and loc	cation, per C2(e), if app	olicable)			
			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, co	FOR INSURANCE COMPANY USE		
Building Street Address (including a 210 Rivers Edge Dr.	Policy Number:		
City Conway	State South Carolina	ZIP Code 29526	Company NAIC Number

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 Taken 06-15-2023

Clear Photo One



Photo Two

Photo Two Caption Rear View Taken 06-08-2023

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 210 Rivers Edge Dr.			Policy Number:
City	State	ZIP Code	Company NAIC Number
Conway	South Carolina	29526	

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 Left View Taken 06-08-2023

Clear Photo Three



Photo Four

Photo Four Caption Right View Taken 06-15-2023

Clear Photo Four







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ICC-ES Evaluation Report ESR-3851

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

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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 #ICCSTACKED2 Models #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	18 ¹ / ₄ x 10 ¹ / ₂ x 1 ³ / ₄	16 x 8 ¹ / ₄	305
ICCINSULATED	18 ¹ / ₄ x 10 ¹ / ₂ x 1 ³ / ₄	15³/ ₄ x 8	300
ICCSTACKED2	30 x 30 x 2 ³ / ₄	24 x 24	610
ICCSTACKED4	40 ¹ / ₂ x 24 ³ / ₄ x 2 ³ / ₄	35 ¹ / ₄ x 19 ¹ / ₂	1,220

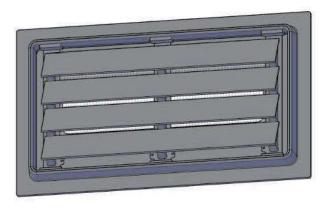


FIGURE 1—CRAWL SPACE DOOR SYSTEMS FLOOD VENT

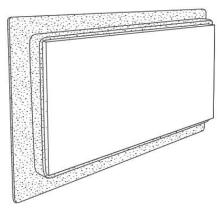


FIGURE 2—FLOOD VENT INSULATED KIT



ICC-ES Evaluation Report

ESR-3851 CBC and CRC Supplement

Reissued September 2022

This report is subject to renewal September 2023.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

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) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

■ 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 <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 2022.





ICC-ES Evaluation Report

ESR-3851 FBC and FRC Supplement

Reissued September 2022

This report is subject to renewal September 2023.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

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 2022.

