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-Gertificate and all-attachments for (1) community official, (2) insurance-agent/company, and (3) building owner.

A1. Building Owner's Name DEAN ALAN BUTLER & LINDA ANTONIA BUTLER -A2. Building Street Address (including Apt., Unit, Suite, and/or Bidg. No.) or P.O. Route and Box No. 1523 S. LAKE PARK BLVD City State ZIP Code CAROLINA BEACH A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) PARCEL ID R09018-011-014-000 TRACT C BLOCK 3 WILMINGTON BEACH A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) A5. Latitude/Longitude: Lat. 34.01555 Long. 77.89933 Horizontal Datum: NAD 1927 NAD 1983 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 6 A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s): 723 sq ft b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 10 c) Total net area of flood openings in A8.b 2840 sq in d) Engineered flood openings? 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 the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of 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 in d) Engineered flood openings? Yes No SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number NEW HANCOVER B4. Map/Panel B5. Suffix B6. FIRM Index B7. FIRM Panel B8. Flood B9. Base Flood Elevation(s)				
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B4. Map/Panel B5. Suffix B6. FIRM Index B7. FIRM Panel B8. Flood B9. Base Flood Elevation(s)				
Number Date Effective/ Revised Date St. Floor Bost Floor Elevation(s) Some(s) Cone AO, use Base Floor Depth)				
3720303900 K 08-28-2018 08-28-2018 VE 16.0'				
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 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 Bldg. No.) or P.O. Route and Box No. 1523 S. LAKE PARK BLVD	Policy Number:		
City State ZIP Code CAROLINA BEACH North Carolina 28428	Company NAIC Number		
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY F	REQUIRED)		
SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) C1. Building elevations are based on:			
structural support	13.8 X feet meters		
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFE This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized be a locatify that the information on this Certificate represents my best efforts to interpret the data available 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? Yes No	ny law to certify elevation information		
Certifier's Name Stuart Y. Benson License Number L-2675 Title	CABOTA A		
Professional Land Surveyor Company Name Cape Fear Surveying, PC Address 1 N 6th St City State ZIP Code	SEAL ON CONTROL OF THE CONTROL OF TH		
Wilmington North Carolina 28401	* BELLIN		
Signature Date Telephone 11-01-2023 (910) 762-9496	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) THE LOWEST EQUIPMENT SERVING DWELLING IS HVAC WITH EL. OF 24.1. FLOOD VENTS USED: CRAWL SPACE DOOR SYSTEMS MODEL #CSBA816 USED, AND ICC-F	ES REPORT ATTACHED		

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding information from Section	ı A.	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route at 1523 S. LAKE PARK BLVD	nd Box No.	Policy Number:		
		- NAIGN		
CAROLINA BEACH State ZIP Code North Carolina 28428	e	Company NAIC Number		
SECTION E – BUILDING ELEVATION INFORMATION (S FOR ZONE AO AND ZONE A (WITHOU	SURVEY NOT UT BFE)	REQUIRED)		
		LOMA - LOMB F		
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	o show whether	the elevation is above or below		
the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).		and dievation to above of below		
a) Top of bottom floor (including basement, crawlspace, or enclosure) is	feet meters	s above or below the HAG.		
b) Top of bottom floor (including basement,	ieer 🗌 illeters	s		
crawlspace, or enclosure) is	feet meters	above or below the LAG.		
E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A	Items 8 and/or	9 (see pages 1–2 of Instructions),		
the next higher floor (elevation C2.b in the diagrams) of the building is	feet meters	above or below the HAG.		
E3. Attached garage (top of slab) is	feet meters	above or below the HAG.		
E4. Top of platform of machinery and/or equipment servicing the building is	fa.a.t	П ab это от П b al это И в 1180		
	feet meters	\		
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor floodplain management ordinance?	elevated in acc al official must c	ertify this information in Section G.		
SECTION F - PROPERTY OWNER (OR OWNER'S REPRESE	ENTATIVE) CE	RTIFICATION		
The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or				
I The property owner or owner's authorized representative who completes Sections A. I	community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.			
The property owner or owner's authorized representative who completes Sections A, E community-issued BFE) or Zone AO must sign here. The statements in Sections A, B,	and E are corr	ect to the best of my knowledge.		
Property Owner or Owner's authorized representative who completes Sections A, E community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, Property Owner or Owner's Authorized Representative's Name	and E are corr	ect to the best of my knowledge.		
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ELEVATION CERTIFICATE

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

			R INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Su 1523 S. LAKE PARK BLVD		Box No. Pol	licy Number:
City		Cor	mpany NAIC Number
CAROLINA BEACH	North Carolina 28428		
- SECTIO	N G - COMMUNITY INFORMATION (OF	PTIONAL)	
The local official who is authorized by law or ord Sections A, B, C (or E), and G of this Elevation of used in Items G8–G10. In Puerto Rico only, ento	Certificate. Complete the applicable item	odplain manage (s) and sign belo	ment ordinance can complete www. Check the measurement
G1. The information in Section C was take engineer, or architect who is authorize data in the Comments area below.)	n from other documentation that has bee d by law to certify elevation information.	n signed and se (Indicate the sou	aled by a licensed surveyor, urce and date of the elevation
G2. A community official completed Section or Zone AO.	n E for a building located in Zone A (with	out a FEMA-issı	ued or community-issued BFE)
G3. The following information (Items G4–C	610) is provided for community floodplain	management p	urposes.
G4. Permit Number	G5. Date Permit Issued		Certificate of liance/Occupancy Issued
G7. This permit has been issued for:	New Construction Substantial Improve	/ement	
G8. Elevation of as-built lowest floor (including of the building:	basement)	feet l	meters Datum
G9. BFE or (in Zone AO) depth of flooding at the	e building site:	feet l	meters Datum
G10. Community's design flood elevation:		☐ feet ☐ r	meters Datum
Local Official's Name	Title		
Community Name	Telephone	-	-
Signature	Date		
Comments (including type of equipment and loca	tion, per C2(e), if applicable)		
	,		
· · · · · · · · · · · · · · · · · · ·		٠.	
•	y-		☐ 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 S	ection A FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Re	oute and Box No. Policy Number:
1523 S. LAKE PARK BLVD	
CityState - ZI	P Code Company NAIC Number
CAROLINA BEACH North Carolina 28	428

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

RIGHT SIDE VIEW

Clear Photo One



Photo Two Caption

REAR VIEW

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 Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1523 SLAKE PARK BLVD			Policy Number:
City CAROLINA BEACH	State North Carolina	ZIP Code 28428	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

Photo Three Caption

LEFT SIDE VIEW

Clear Photo Three



Photo Four

Photo Four Caption

FRONT VIEW

Clear Photo Four



ICC-ES Evaluation Report

ESR-3851

Reissued September 2023

This report also contains:

- CBC Supplement

- FBC Supplement

Subject to renewal September 2024

ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.

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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® (IBC)
- 2018 and 2015 International Residential Code® (IRC)

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

AVAE

Copyright © 2023 Page 1 of 5

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 Space Stacked Models #ICCSTACKED2 and #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).

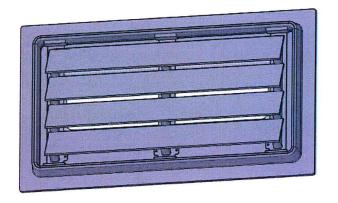
7.0 IDENTIFICATION

- **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 × 24 ³ / ₄ × 2 ³ / ₄	35 ¹ / ₄ x 19 ¹ / ₂	1,220





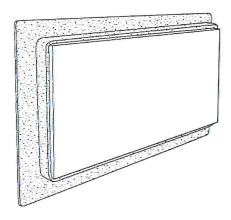


FIGURE 2—FLOOD VENT INSULATED KIT



ICC-ES Evaluation Report

ESR-3851 CBC and CRC Supplement

Reissued 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 MODEL #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 2023.





ICC-ES Evaluation Report

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CRAWL SPACE DOOR SYSTEMS, INC.

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CRAWL SPACE DOOR SYSTEMS FLOOD VENT MODEL #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 2023.

