FPUP# P21FC00437 DSD# P21BP02785

U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

OMB Control No. 1660-0008 Expiration Date: 06/30/2026

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

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 INSURANCE COMPANY USE						
A1. Building Owner's Name: Jimmy Nguyen	Policy Number:						
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 17365 W. El Camino de Tres Arroyos	Company NAIC Number:						
City: Marana State: AZ	ZIP Code: 85653						
A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Nul Taxcode: 208250360 Township 12S Range 10E Section 5 N2 S2 SW4 NE4 EX							
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.):Accessory: De	tached Garage						
A5. Latitude/Longitude: Lat. 32.41601 Long111.34679 Horiz. Datum:	NAD 1927 🗵 NAD 1983 🗌 WGS 84						
A6. Attach at least two and when possible four clear color photographs (one for each side) of the building (see Form pages 7 and 8). Pima County Regional Flood Control District Requires four (4) photographs. A7. Building Diagram Number: 1A							
A8. For a building with a crawlspace or enclosure(s):							
a) Square footage of crawlspace or enclosure(s): 1320 sq. ft.							
b) Is there at least one permanent flood opening on two different sides of each enclosed area?	? ⊠ Yes ☐ No ☐ N/A						
c) Enter number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 fool Non-engineered flood openings:	above adjacent grade:						
d) Total net open area of non-engineered flood openings in A8.c:0 sq. in.							
e) Total rated area of engineered flood openings in A8.c (attach documentation – see Instructi	ons): 1525 sq. ft.						
f) Sum of A8.d and A8.e rated area (if applicable – see Instructions):n/a sq. ft.							
A9. For a building with an attached garage:							
a) Square footage of attached garage: n/a sq. ft.							
b) Is there at least one permanent flood opening on two different sides of the attached garage	? ☐ Yes ☐ No ☒ N/A						
c) Enter number of permanent flood openings in the attached garage within 1.0 foot above adj Non-engineered flood openings:n/a Engineered flood openings:n/a							
d) Total net open area of non-engineered flood openings in A9.c:n/a sq. in.							
e) Total rated area of engineered flood openings in A9.c (attach documentation – see Instructi	ons):n/a sq. ft.						
f) Sum of A9.d and A9.e rated area (if applicable – see Instructions): n/a sq. ft.							
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFO	RMATION						
B1.a. NFIP Community Name: Pima County B1.b. NFIP Com	nmunity Identification Number: 040073						
B2. County Name: Pima County B3. State: AZ B4. Map/Panel No.:	04019C 1015 B5. Suffix: L						
B6. FIRM Index Date: 09/28/2012 B7. FIRM Panel Effective/Revised Date: 06/16/20	011						
B8. Flood Zone(s): X B9. Base Flood Elevation(s) (BFE) (Zone AO, use	Base Flood Depth): 102.0						
B10. Indicate the source of the BFE data or Base Flood Depth entered in Item B9: FIS FIRM Community Determined Other:							
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source: Highest Adjacent Natural Grade (=100.0 ft)							
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?							
B13. Is the building located seaward of the Limit of Moderate Wave Action (LiMWA)? Yes	No						

Building Street Address (including Apt., Unit, Suite,	and/or Bldg. N	No.) or	P.O. Route and Box	No.:	FOR	INSU	JRAN	CE C	OMPANY USE	
					Policy Number:					
City: Marana State: AZ ZIP Code: 85653					Company NAIC Number:					
SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)										
C1. Building elevations are based on: Con *A new Elevation Certificate will be required					ion* 🔈	∑ Fir	nished	Cons	struction	
C2. Elevations – Zones A1–A30, AE, AH, AO, A A99. Complete Items C2.a–h below accordi Benchmark Utilized: none		ling D		em A7. In F						
Indicate elevation datum used for the elevations ☐ NGVD 1929 ☐ NAVD 1988 ☒ Othe										
Datum used for building elevations must be the s If Yes, describe the source of the conversion fac				on factor us	sed?	Che	Yes	× mes	No asurement used:	
a) Top of bottom floor (including basement, crawlspace, or enclosure floor):					01.03					
b) Top of the next higher floor (see Instructi	ons):				n/a	\times	feet		meters	
c) Bottom of the lowest horizontal structural	member (see	Instru	ıctions):		n/a	\times	feet		meters	
d) Attached garage (top of slab):					n/a	\times	feet		meters	
e) Lowest elevation of Machinery and Equip (describe type of M&E and location in Se					n/a	\boxtimes	feet		meters	
f) Lowest Adjacent Grade (LAG) next to bu	lding: X Natural Tinished		(99.54	\times	feet		meters		
PCRFCD Note: Indicate lowest adjacent natu g) Highest Adjacent Grade (HAG) next to b	uilding: 🔀 Na	al grade (LANG) in Section D ilding: X Natural Finish	Finished	10	00.00	\times	feet		meters	
PCRFCD Note: Indicate highest adjacent natural grade (HANG) in Sec h) Finished LAG at lowest elevation of attached deck or stairs, inc support:		Section D Including structural		n/a	\times	feet		meters		
SECTION D - SUR	VEYOR, EN	GINE	ER, OR ARCHITE	CT CERT	IFICA	TION				
This certification is to be signed and sealed by a information. I certify that the information on this of false statement may be punishable by fine or imp	Certificate repr	resent	s my best efforts to in	nterpret the	state la data a	w to	certify ble. I u	eleva inder	ation stand that any	
Were latitude and longitude in Section A provide	d by a license	d land	surveyor? Yes	☐ No						
Check here if attachments and describe in the	Comments a	ırea.								
Certifier's Name: Tracy A Bogardus	ι	Licens	e Number: 34567					=======================================		
Title: President										
Company Name: Bogardus Engineering, LLC	Company Name: Bogardus Engineering, LLC							7 5 2		
Address: 16618 N Avenida de la Reata						Regis	BC	OGARE	SUS SUS	
City: Tucson	State	e:/	ZIP Code: 85	5739		1	B	10/11	123/17/	
Telephone: (520) 572-6530 Ext.: Email: tracy@bogardusengineering.com										
7 . 1			10/00	2/2022		-	75	2-1	5	
Signature:		- /1\ -	Date: 10/09		ngont/or	omna	ny any	۹ (3) [building owner	
Copy all pages of this Elevation Certificate and all Comments (including source of conversion factor										
The lowest service equipment (C2.e) is n/a. Highest adjacent finished grade is 100.92.	Power to th Lowest adjace	ne bui cent f	lding is solar panel inished grade is 10	s. Power (0.03	enters	build	ding a	t ele	vation 104.49.	
Total 5 "Crawl Space Door System Grates					q ft of	floor	area	cove	erage.	

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:	FOR INSURANCE COMPANY USE					
17365 W. El Camino de Tres Arroyos City: Marana State: AZ ZIP Code: 85653	Policy Number:					
	Company NAIC Number:					
SECTION E – BUILDING MEASUREMENT INFORMATION (SURVE) FOR ZONE AO, ZONE AR/AO, AND ZONE A (WITHOUT						
For Zones AO, AR/AO, and A (without BFE), complete Items E1–E5. For Items E1–E4, use natural grade, if available. If the Certificate is intended to support a Letter of Map Change request, complete Sections A, B, and C. Check the measurement used. In Puerto Rico only, enter meters.						
Building measurements are based on: Construction Drawings* Building Under Construct *A new Elevation Certificate will be required when construction of the building is complete.	tion* Finished Construction					
E1. Provide measurements (C.2.a in applicable Building Diagram) for the following and check the measurement is above or below the natural HAG and the LAG.	appropriate boxes to show whether the					
a) Top of bottom floor (including basement, crawlspace, or enclosure) is:	s above or below the HAG.					
b) Top of bottom floor (including basement, crawlspace, or enclosure) is:	above or below the LAG.					
E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and next higher floor (C2.b in applicable						
Building Diagram) of the building is: [
E4. Top of platform of machinery and/or equipment	above of below the FIAG.					
servicing the building is:	s above or below the HAG.					
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in a floodplain management ordinance? Yes No Unknown The local official n	accordance with the community's nust certify this information in Section G.					
SECTION F - PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESE	NTATIVE) CERTIFICATION					
The property owner or owner's authorized representative who completes Sections A, B, and E for sign here. The statements in Sections A, B, and E are correct to the best of my knowledge	Zone A (without BFE) or Zone AO must					
Check here if attachments and describe in the Comments area.						
Property Owner's Authorized Representative Name:						
Address:						
City: State:	ZIP Code:					
Telephone: Ext.: Email:						
Signature: Date:						
Comments:						

Building Street Address (including Apt., Unit, Suite, and/or Bldg. 17365 W. El Camino de Tres Arroyos	No.) or P.O. Route and I	Box No.:	FOR INSURANCE	COMPANY USE	
City: Marana State: AZ ZIP Code: 85653		53	Policy Number:		
	C	Company NAIC Number:			
SECTION G – COMMUNITY INFORMATION (RE					
The local official who is authorized by law or ordinance to adm Section A, B, C, E, G, or H of this Elevation Certificate. Complete	ninister the community's lete the applicable item	s floodplain manag (s) and sign below	gement ordinance wwhen:	can complete	
G1. The information in Section C was taken from other engineer, or architect who is authorized by state la elevation data in the Comments area below.)	r documentation that ha aw to certify elevation in	s been signed and formation. (Indica	d sealed by a licente the source and	sed surveyor, date of the	
G2.a. A local official completed Section E for a building I E5 is completed for a building located in Zone AO.		out a BFE), Zone /	AO, or Zone AR/A	O, or when item	
G2.b. A local official completed Section H for insurance	purposes.				
G3. $\ \ \Box$ In the Comments area of Section G, the local offic	ial describes specific co	orrections to the in	nformation in Section	ons A, B, E and H.	
G4.	ded for community floor	dplain manageme	nt purposes.		
G5. Permit Number: <u>P21FC00437</u> G6. D	Date Permit Issued:	5/11/2021			
G7. Date Certificate of Compliance/Occupancy Issued:					
G8. This permit has been issued for: New Construction	on 🗌 Substantial Impr	rovement			
G9.a. Elevation of as-built lowest floor (including basement) building:	of the	feet	meters Datum:		
G9.b. Elevation of bottom of as-built lowest horizontal structumember:	ural	feet	meters Datum:		
G10.a. BFE (or depth in Zone AO) of flooding at the building s	site: 102.0	∑ feet □	meters Datum:	HANG	
G10.b. Community's minimum elevation (or depth in Zone AC requirement for the lowest floor or lowest horizontal strength.)	D) tructural 103.0	⊠ feet □	meters Datum:	HANG	
G11. Variance issued? Yes No If yes, attach d	documentation and desc	cribe in the Comm	ents area.		
The local official who provides information in Section G must correct to the best of my knowledge. If applicable, I have also	sign here. I have compl provided specific corre	leted the informati ctions in the Com	ion in Section G an ments area of this	nd certify that it is section.	
Local Official's Name: Philip Calabrese	Title:	CFM			
NFIP Community Name: Pima County					
Telephone: 520-724-4600					
Address: 201 N Stone Ave 9th FI					
City: Tucson		State: AZ	ZIP Code: 85	5701	
D		08/08/2023			
Signature: Philip Calabrese			-	is information in	
Comments (including type of equipment and location, per C2. Sections A, B, D, E, or H):	.e; description of any at	tacnments; and co	orrections to specif	ic information in	

Building Street Address (including Apt., Unit, S	uite, and/or Bldg. No.)	or P.O. Route and Box No.:	FOR INSURANCE COMPANY USE	
17365 W. El Camino de Tres Arroyos		Policy Number:		
City: Marana	State: AZ	ZIP Code: 85653	Company NAIC Number:	
		OR HEIGHT INFORMATION OR INSURANCE PURPOSE	[200] [10] [200] [200] [200] [200] [200] [200] [200] [200] [200] [200] [200] [200] [200] [200] [200] [200] [200]	
The property owner, owner's authorized reprito determine the building's first floor height for nearest tenth of a foot (nearest tenth of a me Instructions) and the appropriate Building	or insurance purposes eter in Puerto Rico). <i>R</i>	s. Sections A, B, and I must also reference the Foundation Type	be completed. Enter heights to the e Diagrams (at the end of Section H	
H1. Provide the height of the top of the floor	(as indicated in Foun	dation Type Diagrams) above t	the Lowest Adjacent Grade (LAG):	
 a) For Building Diagrams 1A, 1B, 3, a floor (include above-grade floors only for crawlspaces or enclosure floors) is: 		m [feet	meters above the LAG	
b) For Building Diagrams 2A, 2B, 4, a higher floor (i.e., the floor above baseme enclosure floor) is:		[feet	meters above the LAG	
H2. Is all Machinery and Equipment servicin H2 arrow (shown in the Foundation Type Yes No				
SECTION I – PROPERTY OWI	NER (OR OWNER'	S AUTHORIZED REPRESE	NTATIVE) CERTIFICATION	
The property owner or owner's authorized re A, B, and H are correct to the best of my kno indicate in Item G2.b and sign Section G.	presentative who con wledge. Note: If the I	npletes Sections A, B, and H mu ocal floodplain management off	ust sign here. <i>The statements in Sections</i> ficial completed Section H, they should	
Check here if attachments are provided (including required pho	otos) and describe each attachn	ment in the Comments area.	
Property Owner or Owner's Authorized Repre	esentative Name:			
Address:				
City:		State:	ZIP Code:	
Telephone: Ext.:	Email:			
Signature:		Date:		
Comments:				

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11 BUILDING PHOTOGRAPHS

See Instructions for Item A6.

Building Street Address (including	FOR INSURANCE COMPANY USE			
17365 W. El Camino de Tres	Policy Number:			
City: Marana	State:	AZ	ZIP Code: 85653	Company NAIC Number:

Instructions: Insert below at least two and when possible four photographs showing each side of the building (for example, may only be able to take front and back pictures of townhouses/rowhouses). Identify all photographs with the date taken and "Front View," "Rear View," "Right Side View," or "Left Side View." Photographs must show the foundation. When flood openings are present, include at least one close-up photograph of representative flood openings or vents, as indicated in Sections A8 and A9.



Photo One

Photo One Caption: FRONT VIEW

Clear Photo One



Photo Two



TYPICAL VENT COVERED



TYPICAL VENT OPENED

Photo Two Caption: LEFT SIDE VIEW

Clear Photo Two

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11 BUILDING PHOTOGRAPHS

Continuation Page

Building Street Address (including	FOR INSURANCE COMPANY USE			
17365 W. El Camino de Tres	Arroyos			Policy Number:
City: Marana	State:	AZ	ZIP Code: 85653	Company NAIC Number:

Insert the third and fourth photographs below. Identify all photographs with the date taken and "Front View," "Rear View," "Right Side View," or "Left Side View." When flood openings are present, include at least one close-up photograph of representative flood openings or vents, as indicated in Sections A8 and A9.



Photo Three

Photo Three Caption: REAR VIEW

Clear Photo Three



Photo Four

Photo Four Caption: RIGHT SIDE 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.

Copyright © 2023 ICC Evaluation Service, LLC. All rights reserved.

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





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 <u>Table 1</u>.
- 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

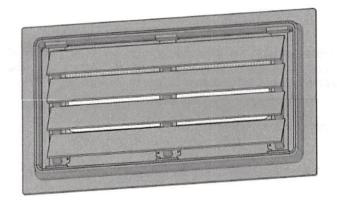


FIGURE 1—CRAWL SPACE DOOR SYSTEMS FLOOD VENT

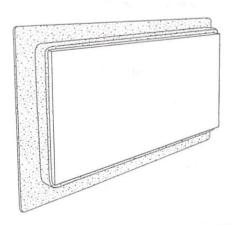


FIGURE 2—FLOOD VENT INSULATED KIT



ICC-ES Evaluation Report

ESR-3851 CBC and CRC Supplement

Reissued September 2023

This report is subject to renewal September 2024.

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 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:

■ 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

ESR-3851 FBC and FRC Supplement

Reissued September 2023

This report is subject to renewal September 2024.

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 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.

