BP2021-0436

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.

( 201 Hatter to 100 Err :	FOR INSURANCE COMPANY USE
all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance (2) SECTION A – PROPERTY INFORMATION	Policy Number:
Building Owner's Name	
AGAVE BUILDERS, LLC	Company NAIC Number:
AGAVE BUILDERS, LLC  2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and	/ Company
	ZIP Code
42018 BESSIE DYER COURT State	95645
City  KNIGHTS LANDING  CA  Formal Number Legal Description, etc.)	
inting (Lot and Block Numbers, Tax Parcel Number, 203	
A3. Property Description (Lot and Brown ASSESSOR'S PARCEL NUMBER: 056-381-019-000	A1 /
ASSESSOR'S PARCEL NUMBER: Uso-301-013 000  A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)  A5. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)  A6. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)  A7. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)	AL 1007  NAD 1983
A4. Building Use (e.g., Residential, Non-Nosissand Long121°43'32.6" Horizontal [	Datum: NAD 1927
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)  A5. Latitude/Longitude: Lat. 30°47'50.4" Long121°43'32.6" Horizontal Cartificate is being used to obtain flood	insurance.
A5. Latitude/Longitude: Lat. 30°47'50.4 Long  A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood	
AZ Ruilding Diagram Number	
As For a building with a crawlspace or enclosure(s).	
A8. For a building with a crawlspace of enclosure(s)  a) Square footage of crawlspace or enclosure(s)  1,436 sq ft  1,436 sq ft	above adjacent grade 6
a) Square footage of crawlspace or enclosure(s)	anovo adjastino
b) Number of permanent need spanings in A8.b 1517 sg in	
c) Total net area of flood openings in A8.b sq in	
d) Engineered flood openings?	
A9. For a building with an attached garage:	
. N/A SUIL	N/A
a) Square footage of attached garage      b) Number of permanent flood openings in the attached garage within 1.0 foot above ad	jacent grade
b) Number of permanent flood openings in A9 b N/A sq in	
c) Total net area of flood openings in A9.b N/A sq in	
C) 10tal 110	
d) Engineered flood openings?	
d) Engineered flood openings?	FORMATION
d) Engineered flood openings?	
d) Engineered flood openings? Yes No  SECTION B – FLOOD INSURANCE RATE MAP (FIRM) IN  B4 NEIR Community Name & Community Number  B2. County Name	CA .
d) Engineered flood openings? Yes No  SECTION B – FLOOD INSURANCE RATE MAP (FIRM) IN  B1. NFIP Community Name & Community Number  B2. County Name  YOLO	CA C
d) Engineered flood openings? Yes No  SECTION B – FLOOD INSURANCE RATE MAP (FIRM) IN  B1. NFIP Community Name & Community Number  YOLO COUNTY UNINCORPORATED 060423  YOLO  B7. FIRM Panel  Effective/  B8. Floo	d Zone(s)  B9. Base Flood Elevation(s
d) Engineered flood openings? Yes No  SECTION B – FLOOD INSURANCE RATE MAP (FIRM) IN  B1. NFIP Community Name & Community Number  YOLO COUNTY UNINCORPORATED 060423  YOLO  B8. Floo	d Zone(s)  B9. Base Flood Elevation(s (Zone AO, use Base Flood Depth)
d) Engineered flood openings? Yes No  SECTION B – FLOOD INSURANCE RATE MAP (FIRM) IN  B1. NFIP Community Name & Community Number  YOLO COUNTY UNINCORPORATED 060423  YOLO  B4. Map/Panel Number  B5. Suffix B6. FIRM Index Date  Number  No  SECTION B – FLOOD INSURANCE RATE MAP (FIRM) IN  B2. County Name  YOLO  B4. Map/Panel Effective/Revised Date  O6/18/2012  O6/18/2010	d Zone(s)  B9. Base Flood Elevation(s
d) Engineered flood openings? Yes No  SECTION B – FLOOD INSURANCE RATE MAP (FIRM) IN  B1. NFIP Community Name & Community Number  YOLO COUNTY UNINCORPORATED 060423  YOLO  B4. Map/Panel Number  Number  B5. Suffix Date  B6. FIRM Index Date  B7. FIRM Panel Effective/Revised Date  O6/18/2010  B8. Floo	d Zone(s)  B9. Base Flood Elevation(s (Zone AO, use Base Flood Depth)  42.1' (SEE SECTION
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d) Engineered flood openings?	d Zone(s)  B9. Base Flood Elevation(s (Zone AO, use Base Flood Depth)  A 42.1' (SEE SECTION red in Item B9: BY MBK, SEPTEMBER 2006  Other/Source:
d) Engineered flood openings?	d Zone(s)  B9. Base Flood Elevation(s (Zone AO, use Base Flood Depth)  A 42.1' (SEE SECTION red in Item B9: BY MBK, SEPTEMBER 2006  Other/Source:
d) Engineered flood openings?	d Zone(s)  B9. Base Flood Elevation(s (Zone AO, use Base Flood Depth)  A 42.1' (SEE SECTION red in Item B9: BY MBK, SEPTEMBER 2006  Other/Source:
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) IN  B1. NFIP Community Name & Community Number  YOLO COUNTY UNINCORPORATED 060423  B4. Map/Panel Number  B5. Suffix B6. FIRM Index Date  O6113C 0315  G  O5/16/2012  B6. FIRM Panel Effective/Revised Date  O6/18/2010  B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth enter STUDY  FIS Profile FIRM Community Determined Other/Source:  STUDY  B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929  NAVD 1988  B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Othe	d Zone(s)  B9. Base Flood Elevation(s (Zone AO, use Base Flood Depth)  A 42.1' (SEE SECTION red in Item B9: BY MBK, SEPTEMBER 2006  Other/Source:
d) Engineered flood openings?	d Zone(s)  B9. Base Flood Elevation(s (Zone AO, use Base Flood Depth)  A 42.1' (SEE SECTION red in Item B9: BY MBK, SEPTEMBER 2006  Other/Source:

## **ELEVATION CERTIFICATE**

IMPORTANT: In these spaces, copy the co	Presnandin		OMB No. 1660-0008 Expiration Date: November 30, 2
Building Street Address (including Apt., Unit	Suite and/or Did to the	om Section A.	FOR INSURANCE COMPANY
Building Street Address (including Apt., Unit, 42018 BESSIE DYER COURT	ounce, and/or Bldg. No.) or P	.O. Route and Box No.	FOR INSURANCE COMPANY L Policy Number:
City	State		
KNIGHTS LANDING		ZIP Code	Company NAIC Number
SECTION C. DU	CA	95645	
C1 Building along	ILDING ELEVATION INFO	RMATION (SURVEY R	EQUIDED)
C1. Building elevations are based on:	Construction Drawings*	7 Building LL L	EWOIKED)
		Building Under Constru	uction* Finished Construction
C2. Elevations – Zones A1–A30, AE, AH, A Complete Items C2.a–h below according Benchmark Utilized: "F 859 RESET"	(with BFE), VE, V1-V30, V (	with DEEN and	
Complete Items C2.a-h below according Benchmark Utilized: "F 859 RESET"	to the building diagram spec	cified in Item A7 In Durant	AE, AR/A1-A30, AR/AH, AR/AO
Indicate elevation det	Vertical D	atum: N.A.V.D. 88	o Rico only, enter meters.
Indicate elevation datum used for the ele	Vallone in ita	helow	
☐ NGVD 1929 ■ NAVD 1988 Datum used for building slave!	Other/Source:	DOIOW,	
building elevations must l	be the same as that used for	the BFF	
<ul><li>a) Top of bottom floor (including baseme</li><li>b) Top of the next higher floor</li></ul>	nt		Check the manual
b) Top of the next higher floor	nt, crawispace, or enclosure	floor)5	Check the measurement used.  — eters
c) Bottom of the lowest by		47 4	meters
Bottom of the lowest horizontal structul     Attached garage (top of alak)	ral member (V Zones only)	N/A	feet meters
garage (top of slab)		N/A	— ☐ feet ☐ meters
<ul> <li>e) Lowest elevation of machinery or equip (Describe type of equipment and location</li> </ul>	ment servicing the building	47. 7	feet meters
(Describe type of equipment and location)  (Describe type of equipment and location)	on in Comments)	<u></u>	feet meters
grade next to	o building (LAG)	37 1	
g) Highest adjacent (finished) grade next t	o building (HAG)	·	— ■ feet □ meters
h) Lowest adjacent grade at lowest elevation     structural support	on of deck or stairs in all	07. 3	feet _ meters
			feet meters
SECTION D - SUR	VEYOR, FNGINEER, OR A	D. C. L.	
This certification is to be signed and sealed by a	VEYOR, ENGINEER, OR A	RCHITECT CERTIFICA	ATION
This certification is to be signed and sealed by a I certify that the information on this Certificate rep statement may be punishable by fine or imprison Were latitude and longitude in Section A provide	presents my best efforts to in	architect authorized by lav	w to certify elevation information
Were latitude and longitude in Section A provide	ment under 18 U.S. Code, S.	ection 1001.	. I understand that any false
Nere latitude and longitude in Section A provided  Certifier's Name	d by a licensed land surveyor		
CHRISTOPHER W. LERCH	License Number		Check here if attachments.
itle		S. 7906	
PRINCIPAL, SENIOR SURVEYOR	L	.5. 7906	CHISED LAND SUPLE TOPHER W. CT. 98
ompany Name			ST OPHER SUPL
AUGENOUR AND MEIKLE			SUSTOPHER W. CR. D. R. CR.
ddress			(( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (
08 COURT STREET			1 104-17-2023 <del>=</del>
y		X	1 5 7000
OODLAND	State	ZIP Code	J.S. 7906
nature 2	CA	95695	J.S. 7906 LS. 7906 OF CALIFORNIA
	Date		
//w		Telephone	
y all pages of this Elevation Certificate and all atta nments (including type of equipment and location BASE FLOOD ELEVATION WAS CALLED		(530)662-1755	;
nments (including type of equipment and location BASE FLOOD ELEVATION WAS CALCU	n per C3(a) is	ficial, (2) insurance agent/	company, and (3) building owner
BASE FLOOD ELEVATION WAS CALCU TEMBER, 2006. ELEVATIONS WERE CO OF MATERIALS. LOWEST MACHINERY	LATED FROM A EL CO-		(-) - smaring owner.
OF MATERIALS LOWER CO	NVERTED TO NAVD O	STUDY PREPARED	BY MBK ENGINEERING IN
TEMBER, 2006. ELEVATION WAS CALCU TEMBER, 2006. ELEVATIONS WERE CO OF MATERIALS. LOWEST MACHINERY EL IS 40.7'. 4 OF THE 6 FLOOD VENTS W	IS THE AIR CONDITION	NG LINET POTTO	BUILT WITH FLOOD
OF MATERIALS. LOWEST MACHINERY EL IS 40.7'. 4 OF THE 6 FLOOD VENTS W DING FOOTPRINT. SEE SPECIFICATION	ILL BE CAPABLE OF CO	OVERING 305 SOLVA	OF THE ELECTRICAL
OF LOIFICATION	S ATTACHED.	III OUJ SQUAF	TE FEET OF THE
Form 086-0-33 (12/19)	7		1
,	Replaces all previous editions	3.	Form Power 2, 15

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

OF DIEC ATE			FOR INSUR	ANCE COMPANY USE
PORTANT: In these spaces, copy the cor	responding information fr	rom Section A.		er:
ORTANT: In these spaces, copy the cor ilding Street Address (including Apt., Unit, S	Suite, and/or Bldg. No.) or P	P.O. Route and Box	10.	
ilding Street Address (Illicidants Address			Company N	AIC Number
2018 BESSIE DYER COOKT	State	ZIP Code		
y ANDING	CA	TION (CUDV)	Y NOT REQUIRED	)
KNIGHTS LANDING	CA DING ELEVATION INFO OR ZONE AO AND ZONI	RMATION (SURVI	E)	
or Zones AO and A (without BFE), complet	DING ELEVATION INFO OR ZONE AO AND ZONI e Items E1-E5. If the Certific	icate is intended to	support a LOMA or LO measurement used. I	DMR-F request, n Puerto Rico only,
or Zones AO and A (without BFE), complet complete Sections A, B,and C. For Items E1 nter meters.  1. Provide elevation information for the following the bighest adjacent grade (HAG) and the bighest grade (HAG) and the bight grade (HAG) and the bighest grade (HAG) and th	E4, use natural grade, if a	printe hoxes to sho	w whether the elevation	on is above or below
nter meters.	lowing and check the applo	LAG).		
the highest days floor (including baser	nent, N/A	feet	Illeters II	
crawispace, of eliciosars,		feet	meters abo	ve or below the LAG.
crawlspace, or enclosure) is	- in an provide	ed in Section A Item	s 8 and/or 9 (see pag	es 1–2 of modern
b) Top of bottom floor (including basel crawlspace, or enclosure) is  E2. For Building Diagrams 6–9 with permathe next higher floor (elevation C2.b in the huilding is	nent flood openings provide N/A	fee	meters abo	ove or below the HAG.
the diagrams) of the building is	N/A .	fee	meters ab	ove or Delow the
E3. Attached garage (top of slab) is  E4. Top of platform of machinery and/or e	equipment N/A.			ove or below the HAG
<ul><li>E4. Top of platform of machinery and/or eservicing the building is</li><li>E5. Zone AO only: If no flood depth number floodplain management ordinance?</li></ul>	per is available, is the top of	f the bottom floor ele	evated in accordance fficial must certify this	information in Section G.
	☐ Yes ☐ No ☐ O	KIIOMI	CERTIFICA	TION
			TATIVE) CERTIFIES	
1100upiani mana s	OP OW	NER'S REPRESEN		and or
SECTION F – PROTECTION F – PROTECTIO	DPERTY OWNER (OR OW d representative who compl st sign here. The statements	INER'S REPRESEN letes Sections A, B, s in Sections A, B, a	and E for Zone A (wit nd E are correct to th State	hout a FEMA-issued or e best of my knowledge.  ZIP Code
SECTION F – PROTECTION F – PROTECTIO	DPERTY OWNER (OR OW d representative who compl st sign here. The statements	INER'S REPRESEN letes Sections A, B, s in Sections A, B, a	and E for Zone A (wit nd E are correct to th State N/A	hout a FEMA-issued or e best of my knowledge.  ZIP Code  N/A
SECTION F – PRO The property owner or owner's authorized community-issued BFE) or Zone AO must Property Owner or Owner's Authorized F N/A Address	DPERTY OWNER (OR OW d representative who compl st sign here. The statements	INER'S REPRESEN  letes Sections A, B, s in Sections A, B, s  City  N/A	and E for Zone A (with note that E are correct to the State  N/A	hout a FEMA-issued or e best of my knowledge.  ZIP Code  N/A
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## **ELEVATION CERTIFICATE**

IMPORTANT: In these spaces, copy the Building Street Address (including Apt., U	corresponding information	o franco	l	OMB No. 1660-0008 Expiration Date: November 30, 2
Building Street Address (including Apt., U 42018 BESSIE DYER COURT	nit, Suite, and/or Bldg. No.) o	r P O Pouts		FOR INSURANCE COMPANY L
	State		Box No.	Policy Number:
KNIGHTS LANDING		ZIP Code		Company NAIC Number
SE	CTION G. COMMUNICATION	95645		
The local official who is authorized by low	CTION G - COMMUNITY IN	FORMATION (OP)	TIONAL)	
The local official who is authorized by law Sections A, B, C (or E), and G of this Eleva used in Items G8–G10. In Puerto Rico only G1. The information in Section C was engineer, or architect who is authorized in the Comments area below G2. A community official completed S or Zone AO.  The following information (Items G4. Permit Number	ection E for a building located	e community's flood e applicable item(s) tion that has been ion information. (In	dplain manag and sign be signed and s dicate the so	ealed by a licensed surveyor, ource and date of the elevation
4. Permit Number		and noodplain Ma	anagement p	urposes.
	G5. Date Permit Issued			
BP2021-0436			G6. Date (	Certificate of
	1 9/23/2	-021	Comp	liance/Occupancy Issued
<ol> <li>This permit has been issued for:</li> </ol>				7/27/23
Elevation of as built la	New Construction Sub	stantial Improveme	ent	(
. Elevation of as-built lowest floor (including)	ng basement)	./	/	
	41	.4	feet 🔲 m	etoro
BFE or (in Zone AO) depth of flooding at	the building site.		/ 1001	eters Datum NAVD 198
. Community's design flood elevation:	the building site: 42	í	feet 🗌 m	
	42			
al Official's Name			feet $\square$ me	eters Datum <u>NAUD 198</u> 8
Scott Day 711	Title			<u>3074001778</u> 8
Scott Doolittle		Buildia		
Yolo Pa	Tele	phone	10441	cial Food marage
iture /	nty		111	1
2-th V	Date		. 666	.8037
Pents (including				
nents (including type of equipment and loca	tion, per C2(a) if applicable	4-20	- 20	1
	(c), ii applicable)			
				1
W.				
m 086-0-33 (12/19)			П -:	neck here if attachments.

## **BUILDING PHOTOGRAPHS**

See Instructions for Item A6.

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

#### **ELEVATION CERTIFICATE** FOR INSURANCE COMPANY USE IMPORTANT: In these spaces, copy the corresponding information from Section A. Policy Number: Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. Company NAIC Number **42018 BESSIE DYER COURT** ZIP Code State City 95645 CA

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 instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Item Too graphs with the state of the Continuation of the flood openings or vents as indicated in Section A8. If submitting more photographs then will fit on this page. Use the Continuation Page. KNIGHTS LANDING vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Photo One Caption FRONT VEIW (TAKEN 01/30/2023)



## **BUILDING PHOTOGRAPHS**

## **ELEVATION CERTIFICATE**

LLL VATION CERTIFICATE	0	OTOGRAPHS	OMB No. 1660-0008
IMPORTANT: In these spaces, copy the	Continuati		Expiration Date: November 20, 2000
IMPORTANT: In these spaces, copy the displaying Street Address (including Apt. United Street Address)	t Coll	n from Section A.	FOR INSURANCE COMME
Building Street Address (including Apt., Uni 42018 BESSIE DYER COURT	it, Suite, and/or Bldg. No.) o	or P.O. Route and Box No.	FOR INSURANCE COMPANY USE Policy Number:
City			subjective in the subject of the sub
KNIGHTS LANDING	State	ZIP Code	Company NAIO N
- III	CA	95645	Company NAIC Number
If submitting more photographs #			

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 One Caption LEFT SIDE VIEW (TAKE 01/30/2023)



Photo Two Caption REAR VIEW (TAKEN 01/30/2023) FEMA Form 086-0-3 (12/19)









I-Codes provide recognition

Specialty code recognition

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

## 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 Reissued September 2022

This report is subject to renewal September 2023.

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 #ICCSTACKED2 Stacked 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 mm<sup>2</sup>) and 44 square inches (28,388 mm<sup>2</sup>), 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 <sup>1</sup> / <sub>4</sub> × 10 <sup>1</sup> / <sub>2</sub> × 1 <sup>3</sup> / <sub>4</sub>	16 x 8 <sup>1</sup> / <sub>4</sub>	305
ICCINSULATED	18 <sup>1</sup> / <sub>4</sub> x 10 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	15³/ <sub>4</sub> x 8	300
ICCSTACKED2	30 x 30 x 2 <sup>3</sup> / <sub>4</sub>	24 x 24	610
ICCSTACKED4	40 <sup>1</sup> / <sub>2</sub> × 24 <sup>3</sup> / <sub>4</sub> × 2 <sup>3</sup> / <sub>4</sub>	35 <sup>1</sup> / <sub>4</sub> x 19 <sup>1</sup> / <sub>2</sub>	1,220

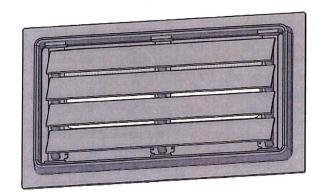


FIGURE 1—CRAWL SPACE DOOR SYSTEMS FLOOD VENT

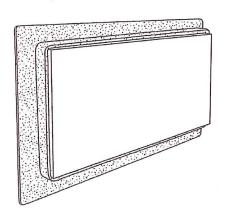


FIGURE 2—FLOOD VENT INSULATED KIT



## 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 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 ESR-3851, 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.

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 ESR-3851, comply with 2019 CRC, provided the design and installation are in accordance with the 2018 International Residential Code® (IRC) provisions noted in the evaluation report.

This supplement expires concurrently with the evaluation report, reissued September 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** 

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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 commission).

This supplement expires concurrently with the evaluation report, reissued September 2022.





## **ELEVATION CERTIFICATE MEMO OF CORRECTION**

Only Sections A and B can use this form. Corrections to sections C, D, E and F require a new certificate.

Permi	t Number	BP2021 - 0436
Addre	ss on Original	42018 Bessie Dyer court, knights Landing, CA 95645
The fo	llowing fields are	e not correct on the attached form and should read as entered on this page:
Field	Description	Corrected Value
A5	Latitude	incorrect 38° 47' 50.4"
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Commu	nity: Volo Count	ty (Unincorporated Areas) 060423
Floodpla	ain Administrato	pr: Scott Doolittle, 530-666-8037
Comme	nts	
Date 💆	3-1-23	Signature