### Horry County Government

Code Enforcement Department www.horrycounty.org



Horry County Government & Justice Center 1301 Second Avenue / Suite 1D09 Conway, South Carolina 29526 Phone 843.915.5090 || Fax 843.915.6090

N324 8/9/21

1 123759

## MEMO OF REVIEW FOR CORRECTNESS AND COMPLETION

In accordance with this community's participation in the National Flood Insurance Program's Community Rating System, all FEMA Elevation Certificates must be correct and complete. The attached Certificate has some incorrect items which are noted here.

SECTION A - PROPERTY INFORMATION	For Insurance Company Use:
A1. Building Owner's Name	Policy Number
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.	Company NAIC Number
City State ZIP Code	- <b>L</b>
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)	
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.     A7. Building Diagram Number     A8. For a building with a crawl space or enclosure(s), provide     A9. For a building with an atta     a) Square footage of crawl space or enclosure(s)     Square footage of attached at the space of enclosure and the space of attached at the space of the sp	ached garage sq ft d openings in the attached garage bove adjacent grade d openings in A9 br sq in
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATIO	N
B1. NFIP Community Name & Community Number B2. County Name	B3. State
B4. Map/Panel Number B5. Suffix B6. FIRM Index Date B7. FIRM Panel B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zou AO, use base flood depth)
Image: Second state sta	Yes 🗌
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQU	IRED)
<ol> <li>Building elevations are based on: Construction Drawings* Building Under Construction*</li> <li>*A new Elevation Certificate will be required when construction of the building is complete.</li> <li>Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/A Items C2.a-h below according to the building diagram specified in Item A7.</li> <li>Benchmark Utilized</li></ol>	Finished
COMMENTS:	Other/Source:
Date of Review: 8/9/21 Community Official:	M

NB24 21

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.

	CTION A - PROPERT	Y INFORMATION		FOR INSURANCE COMPANY L
A1. Building Owner's Name CK CARR BROTHERS 2, LLC				Policy Number:
<ul> <li>A2. Building Street Address (in Box No.</li> <li>216 GLOUCESTER WAY</li> </ul>	ncluding Apt., Unit, Sui	ite, and/or Bldg. No.)	or P.O. Route an	d Company NAIC Number:
City		State		ZIP Code
LITTLE RIVER			Carolina	29566
A3. Property Description (Lot UNIT 8 CAPE COD COTTAGE		ax Parcel Number, Li	egal Description,	etc.)
A4. Building Use (e.g., Reside	ential, Non-Residential,	Addition, Accessory	etc.) RESIDE	NTIAL
A5. Latitude/Longitude: Lat.	33D51'11.541"	Long 78D39'22 53	" Horizon	tal Datum: 🗌 NAD 1927 🛛 NAD 1983
A6. Attach at least 2 photogra	phs of the building if th	e Certificate is being	used to obtain fic	od insurance.
A7. Building Diagram Number				
A8. For a building with a crawl				
a) Square footage of craw			1144 00 sq ft	
			<u></u>	
				ot above adjacent grade 6
<li>c) Total net area of flood of</li>		1230.00 sq	n	
d) Engineered flood open	ings? 🛛 Yes 🗌 I	No		
A9. For a building with an attac	ched garage			
1.2				
a) Square footage of attac	hed garage	N/A so	9	
a) Square footage of attac				
<ul><li>a) Square footage of attact</li><li>b) Number of permanent f</li></ul>				djacent grade N/A
	lood openings in the at		1 0 foot above a	djacent grade N/A
b) Number of permanent f	lood openings in the at openings in A9.b	ttached garage within N/A se	1 0 foot above a	djacent grade N/A
<ul> <li>b) Number of permanent f</li> <li>c) Total net area of flood o</li> <li>d) Engineered flood opening</li> </ul>	lood openings in the at openings in A9.b	ttached garage within N/A se	1 0 foot above a	· · · · · · · · · · · · · · · · · · ·
<ul> <li>b) Number of permanent f</li> <li>c) Total net area of flood o</li> <li>d) Engineered flood opening</li> </ul>	lood openings in the at openings in A9.b ngs? Yes I ECTION B – FLOOD	ttached garage within N/A se	1 0 foot above a g in MAP (FIRM) IN	· · · · · · · · · · · · · · · · · · ·
<ul> <li>b) Number of permanent f</li> <li>c) Total net area of flood of</li> <li>d) Engineered flood opening</li> </ul>	lood openings in the at openings in A9.b ngs? Yes I ECTION B – FLOOD	ttached garage within N/A so No INSURANCE RATE	1 0 foot above a g in MAP (FIRM) IN Name	FORMATION
<ul> <li>b) Number of permanent f</li> <li>c) Total net area of flood of</li> <li>d) Engineered flood opening</li> <li>S</li> <li>B1 NFIP Community Name &amp;</li> </ul>	lood openings in the at openings in A9.b ngs? Yes I ECTION B – FLOOD Community Number	INSURANCE RATE B2 County HORRY CO B7 FIRM Panel Effective/	1 0 foot above a g in MAP (FIRM) IN Name	FORMATION B3. State
<ul> <li>b) Number of permanent f</li> <li>c) Total net area of flood of</li> <li>d) Engineered flood opening</li> <li>B1 NFIP Community Name &amp; HORRY COUNTY 450104</li> <li>Map/Panel B5. Suffix</li> </ul>	lood openings in the at openings in A9.b ngs? Yes I ECTION B – FLOOD Community Number B6. FIRM Index	INSURANCE RATE B2 County HORRY CO B7. FIRM Panel	1 0 foot above a g in MAP (FIRM) IN Name DUNTY B8, Flood	B3. State South Carolina B9. Base Flood Elevation(s)
<ul> <li>b) Number of permanent f</li> <li>c) Total net area of flood of</li> <li>d) Engineered flood opening</li> <li>B1 NFIP Community Name &amp; HORRY COUNTY 450104</li> <li>Map/Panel Number</li> <li>B5. Suffix Number</li> </ul>	lood openings in the at         openings in A9.b         ngs?       Yes         IECTION B - FLOOD         Community Number         B6.       FIRM Index         Date         09-17-2003	INSURANCE RATE B2 County HORRY CO B7 FIRM Panel Effective/ Revised Date 08-23-1999	1 0 foot above as a in MAP (FIRM) IN Name DUNTY B8, Flood Zone(s) AE	FORMATION B3. State South Carolina B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 12
<ul> <li>b) Number of permanent f</li> <li>c) Total net area of flood of</li> <li>d) Engineered flood openii</li> <li>S</li> <li>B1 NFIP Community Name &amp; HORRY COUNTY 450104</li> <li>Map/Panel B5. Suffix</li> <li>Sumber H</li> </ul>	flood openings in the at         openings in A9.b         ngs?       Yes         ECTION B - FLOOD         Community Number         B6.       FIRM Index         Date         09-17-2003         Base Flood Elevation	ttached garage within N/A so No INSURANCE RATE B2 County HORRY Co B7. FIRM Panel Effective/ Revised Date 08-23-1999 (BFE) data or base f	1 0 foot above as a in MAP (FIRM) IN Name DUNTY B8. Flood Zone(s) AE	FORMATION B3. State South Carolina B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 12
<ul> <li>b) Number of permanent f</li> <li>c) Total net area of flood of</li> <li>d) Engineered flood opening</li> <li>B1 NFIP Community Name &amp; HORRY COUNTY 450104</li> <li>14. Map/Panel Number</li> <li>5051C0581</li> <li>H</li> <li>B10. Indicate the source of the</li> </ul>	Bood openings in the attraction penings in A9.b         ngs?       Yes         Image: Provide the second s	ttached garage within N/A so No INSURANCE RATE B2 County HORRY Co B7 FIRM Panel Effective/ Revised Date 08-23-1999 (BFE) data or base f mined Other/Sou	1 0 foot above as a in MAP (FIRM) IN Name DUNTY B8. Flood Zone(s) AE	FORMATION B3. State South Carolina B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 12
<ul> <li>b) Number of permanent field</li> <li>c) Total net area of flood of engineered flood opening</li> <li>B1 NFIP Community Name &amp; HORRY COUNTY 450104</li> <li>14. Map/Panel Number</li> <li>5051C0581</li> <li>H</li> <li>B10. Indicate the source of the FIS Profile I FIRM</li> <li>B11. Indicate elevation datum</li> </ul>	lood openings in the at         openings in A9.b         ngs?       Yes         ECTION B - FLOOD         Community Number         B6.       FIRM Index         Date         09-17-2003         Base Flood Elevation         Community Deter         used for BFE in Item E	ttached garage within N/A si No INSURANCE RATE B2 County HORRY Ci B7 FIRM Panel Effective/ Revised Date 08-23-1999 (BFE) data or base f mined Other/Sol 39: X NGVD 1929	1 0 foot above as a in MAP (FIRM) IN Name DUNTY B8 Flood Zone(s) AE lood depth entere prce.	FORMATION B3. State South Carolina B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 12 d in Item B9: Other/Source:
<ul> <li>b) Number of permanent field</li> <li>c) Total net area of flood of engineered flood opening</li> <li>B1 NFIP Community Name &amp; HORRY COUNTY 450104</li> <li>14. Map/Panel Number</li> <li>5051C0581</li> <li>H</li> <li>B10. Indicate the source of the FIS Profile I FIRM</li> <li>B11. Indicate elevation datum</li> </ul>	lood openings in the at         openings in A9.b         ngs?       Yes         ECTION B - FLOOD         Community Number         B6.       FIRM Index         Date         09-17-2003         Base Flood Elevation         Community Deter         used for BFE in Item E	ttached garage within N/A si No INSURANCE RATE B2 County HORRY Ci B7 FIRM Panel Effective/ Revised Date 08-23-1999 (BFE) data or base f mined Other/Sol 39: X NGVD 1929	1 0 foot above as a in MAP (FIRM) IN Name DUNTY B8 Flood Zone(s) AE lood depth entere prce.	FORMATION B3. State South Carolina B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 12 d in Item B9:

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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., U 216 GLOUCESTER WAY	nit, Suite, and/or Bldg. No.) or P.O. I	Route and Box No.	Policy Number.
		IP Code 9566	Company NAIC Number
SECTION C -	BUILDING ELEVATION INFORM	ATION (SURVEY R	EQUIRED)
<ul> <li>C1. Building elevations are based on:</li> <li>*A new Elevation Certificate will be</li> <li>C2. Elevations – Zones A1–A30, AE, Al Complete Items C2.a-h below accord Benchmark Utilized: <u>SC VRS</u></li> </ul>	required when construction of the bu H, A (with BFE), VE, V1–V30, V (with rding to the building diagram specifi Vertical Date	n BFE), AR, AR/A, AR ed in Item A7. In Puer um: <u>NGVD 1929</u>	
Indicate elevation datum used for th	e elevations in items a) through h) b	elow.	
🔀 NGVD 1929 🔲 NAVD 1			
Datum used for building elevations r a) Top of bottom floor (including ba			Check the measurement used.
b) Top of the next higher floor			19.9 🔀 feet 🗌 meters
<ul><li>c) Bottom of the lowest horizontal s</li></ul>	tructural member (V Zones only)		<u>N/A</u> feet meters
d) Attached garage (top of slab)			<u>N/A</u> X feet T meters
<ul> <li>e) Lowest elevation of machinery o (Describe type of equipment and</li> </ul>	r equipment servicing the building location in Comments)		13.1 🗙 feet 🗌 meters
<li>f) Lowest adjacent (finished) grade</li>	next to building (LAG)		8.1 🗙 feet 🗌 meters
g) Highest adjacent (finished) grade	e next to building (HAG)		8.5 X feet I meters
<ul> <li>h) Lowest adjacent grade at lowest structural support</li> </ul>	elevation of deck or stairs, including		N/A [] feet [] meters
SECTION D	- SURVEYOR, ENGINEER, OR A	RCHITECT CERTIF	ICATION
This certification is to be signed and seal I certify that the information on this Certif statement may be punishable by fine or i	icale represents my best efforts to in	terret the data avails	y law to certify elevation information. able. I understand that any false
Were latitude and longitude in Section A	provided by a licensed land surveyo	r? 🛛 Yes 🗌 No	Check here if attachments.
Certifier's Name	License Number		NUCON STOCK
JACQUES J. BONNETT	21431		
Title PLS			
Company Name SITE SURVEYING, LLC			
Address 111 WHITE OAK FOREST PL			Here
City CONWAY	State South Carolina	ZIP Code 29527	
Signature	Date 08-04-2021	Telephone (843) 397-8000	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 a LOWEST MACHINERY WILL BE AC UN SHEET. THE NET ARE OF OPENINGS I TO MATCH ENGINEERED RELIEF ARE GARAGE ON FOUNDATION AND FRAM	IT. FLOOD VENTS ARE ENGINEE IS 630 SQUARE INCHES. THE CO A OF OPENINGS. THIS UNIT IS N	RED FOR 205 SQ FT UNTY MAKES ME PL OT ON PILES, BUT B	JT SQUARE INCHES OF OPENING
FEMA Form 086-0-33 (12/19)	Replaces all previous ed	itions.	Form Page 2 of 6

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ELEVATION CERTIFICATE			OMB No. 1660-0008 Expiration Date: November 30, 2022
IMPORTANT: In these spaces, copy the corres	ponding information fi	rom Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suit 216 GLOUCESTER WAY			Policy Number.
City LITTLE RIVER	State South Carolina	ZIP Code 29566	Company NAIC Number
		MATION (SURVEY NOT	
FOR	ZONE AO AND ZONE	A (WITHOUT BFE)	
For Zones AO and A (without BFE), complete Ite complete Sections A, B,and C. For Items E1-E4, enter meters.	ms E1–E5. If the Certific use natural grade, if ava	ate is intended to support a ailable. Check the measure	a LOMA or LOMR-F request, ement used. In Puerto Rico only,
E1. Provide elevation information for the followin the highest adjacent grade (HAG) and the lo a) Top of bottom floor (including basement,	g and check the appropr west adjacent grade (LA	iate boxes to show wheth G).	er the elevation is above or below
crawlspace, or enclosure) is	<del></del>	feet 🔲 mete	rs 🔲 above or 🛄 below the HAG.
<li>b) Top of bottom floor (including basement, crawlspace, or enclosure) is</li>			rs 🔲 above or 🗌 below the LAG.
E2. For Building Diagrams 6-9 with permanent f	lood openings provided i		
the next higher floor (elevation C2.b in the diagrams) of the building is	стания страница. Страница страница страни Страница страница стр	[] feet [] mete	
E3. Attached garage (top of slab) is		[est ] mete	
E4. Top of platform of machinery and/or equipme	ent		
servicing the building is E5. Zone AO only: If no flood depth number is av	ailable, is the top of the	[] feet [] mete	
floodplain management ordinance?  Ye	s 🗌 No 📋 Unknow	n. The local official must	certify this information in Section G.
SECTION F - PROPERTY	OWNER (OR OWNER	S REPRESENTATIVE) C	ERTIFICATION
The property owner or owner's authorized repress community-issued BFE) or Zone AO must sign he	ere. The statements in Se	Sections A, B, and E for Z ections A, B, and E are co	one A (without a FEMA-issued or rrect to the best of my knowledge.
Property Owner or Owner's Authorized Represen	tative's Name		
Address	Ci	ty Si	tate ZIP Code
Signature	Da	ate Te	elephone
Comments		·····	
			Check here if attachments.

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ELEVATION CERTIFICATE		OMB No. 1660-0008 Expiration Date: November 30, 2022
IMPORTANT: In these spaces, copy the cor	responding information from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, S 216 GLOUCESTER WAY	Suite, and/or Bldg. No.) or P.O. Route and Bo	
	State ZIP Code South Carolina 29566	Company NAIC Number
	ON G - COMMUNITY INFORMATION (OPT	20NAL)
The local official who is authorized by law or o Sections A, B, C (or E), and G of this Elevatio used in Items G8–G10. In Puerto Rico only, e	rdinance to administer the community's flood n Certificate. Complete the applicable item(s)	plain management ordinance can complete
G1. The information in Section C was tal engineer, or architect who is authori data in the Comments area below.)	ken from other documentation that has been zed by law to certify elevation information. (In	signed and sealed by a licensed surveyor, idicate the source and date of the elevation
G2. A community official completed Sec or Zone AO.	tion E for a building located in Zone A (withou	It a FEMA-issued or community-issued BFE)
G3. The following information (Items G4	–G10) is provided for community floodplain m	nanagement purposes.
G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction Substantial Improve	ment
G8. Elevation of as-built lowest floor (includin of the building:	g basement)	[] feet [] meters Datum
G9. BFE or (in Zone AO) depth of flooding at	the building site:	feet imeters 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 lo	cation, per C2(e), if applicable)	,
		Check here if attachments.

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#### **BUILDING PHOTOGRAPHS**

See Instructions for Item A6

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

IMPORTANT: In these spaces, co	py the corresponding information fi	rom Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including 216 GLOUCESTER WAY	Apt., Unit, Suite, and/or Bldg. No.) or F	O. Route and Box No.	Policy Number:
City	State	ZIP Code	Company NAIC Number
LITTLE RIVER	South Carolina	29566	(*) SE

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View", and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Photo One Caption FRONT

**ELEVATION CERTIFICATE** 

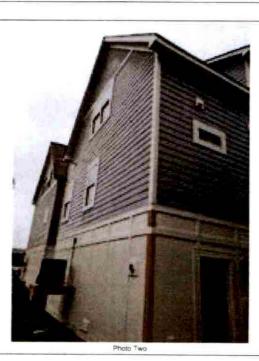


Photo Two Caption BACK

Clear Photo One

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OMB No. 1660-0008

#### 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. 216 GLOUCESTER WAY
 Policy Number

 City
 State
 ZIP Code

 LITTLE RIVER
 South Carolina
 29566

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.

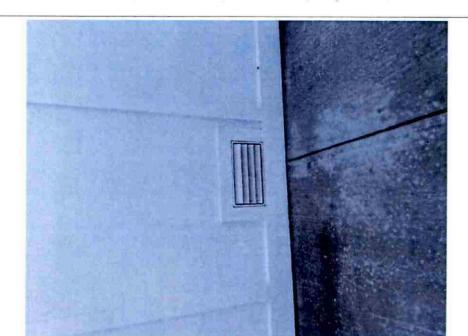


Photo Three

Photo Three Caption FLOOD VENT

<section-header><section-header><complex-block>

Photo Four Caption

Clear Photo Three

# Certification of Engineered Flood Openings

In accordance with the Code of Federal Regulations for the National Flood Insurance Program

I hereby certify that the Crawl Space Door Systems flood vents 816CS, 1220CS, 1232CS, 1616CS, 1624CS, 1632CS, 2032CS, 2424CS, and 2436CS are designed are designed in accordance with the requirements of the Code of Federal Regulations for the National Flood Insurance Program (NFIP) to provide automatic equalization of hydrostatic flood forces by allowing for the entry and exit of floodwaters, when properly installed and sized as set forth below. Vent opening measurements were measured and certified by Mr. Christopher Mark Loney, Virginia P.E. NO. 029000. Detailed calculations were prepared as outlined In "Review of certification of Engineered Flood Openings," prepared by Dr. Georg Reichard, Associate Professor of Building Construction, Virginia Tech (available upon request from Crawl Space Door Systems, Inc. billy@crawlspacedoors.com)

#### **Design Characteristics**

Section 2.6.2.2 of ASCE/SEI 24-05 provides an equation to determine the required <u>net area</u> of engineered openings (A<sub>o</sub>) for a given <u>enclosed area</u> (A<sub>e</sub>). This equation is based on the hydraulic formula for the flow rate across sharp edged orifices. I have utilized this equation to calculate 1) the restricted flow rate through the main frame opening in case the louver is blown out during a flood event; 2) the flow rate through the individual openings between louver blades; and 3) the flow rate through projected openings between louver blades following hydraulic short-tube theory. The maximum total enclosed area (A<sub>e</sub>) that can be serviced by a single vent has then been determined by utilizing the lowest flow rate of the three assessed scenarios for each vent and is listed in Table 1. These values are based on the following assumptions:

- In absence of reliable data, the rates of rise and fall have been assumed at a minimum rate of 5 feet/hour;
- The (maximum) difference between the exterior and interior floodwater levels shall not exceed 1 foot during base flood conditions;
- A factor of safety of 5 has been assumed, which is consistent with design practices related to protection of life and property;
- The net area of openings (A<sub>o</sub>) as provided by the manufacturer.

#### Installation Requirements and Limitations

This certification will be voided if the following installation requirements and limitations are not enforced:

- There shall be a minimum of two openings on different sides of each enclosed area subject to flooding;
- The bottom of all openings shall be no higher than one foot given <u>net area</u> above the higher of the interior or exterior grade that is immediately under each opening;
- No temporary (e.g. during cold weather) or permanent solid cover may be placed into or over the flood vent that would block the
  automatic entry or exit of floodwaters at any time;
- Where data or analyses indicate more rapid rates of rise and fall, the required number of openings shall be increased to account for those different conditions. The number or size of the openings may be decreased if data or analyses indicate rates of rise and fall are less than 5 feet per hour.

Certifyi	ng Design Professional	TH CARO
Name	Frederick Allen House	Title President
Company	House Engineering P.C.	P.C.
Address	PO Box 466, Kitty Hawk, NC 27949	No. 3900
License	South Carolina	License No. 26841
Signature	Rent altons P.E.	Date: 11/17/2017

#### Identification of the Building and Installed Flood Vents (By Others)

The flood vent models marked in Table 1\*) are being installed at the following building: Building Address

•)	Model	H x W [in]	A <sub>o</sub> [in <sup>2</sup> ]	Ae [ft <sup>2</sup> ]
Z	816CS	8 x 16	105	205
	1220CS	12 x 20	235	500
	1232CS	12 x 32	305	645
	1616CS	16 x 16	180	395
	1624CS	16 x 24	310	670
	1632CS	16 x 32	405	835
	2032CS	20 x 32	630	1240
	2424CS	24 x 24	570	1230
	2436CS	24 x 36	850	1765

Table 1 Maximum total <u>enclosed</u> <u>area</u> (A<sub>e</sub>) that can be serviced by each individual model based on the given <u>net area</u> of engineered openings (A<sub>o</sub>)