80997 5-16-19 EB45

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

OMB No. 1660-0008 Expiration Date: November 30, 2018

Important: Follow the in tructions 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.

A1. Building Owner's Name	FOR INSURANCE COMPANY U
ALINA HOUSE	Policy Number:
 A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 3623 CLUSTER LANE 	Company NAIC Number:
City State MYRTLE BEACH South Carolina	ZIP Code 29579
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) OT 13, BLOCK E PHASE II, WHISPERING PINES (PIN# 427-05-04-0014)	Note that the second
Ad. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL	
A5. Latitude/Longitude: Lat. 33-42-43.94 Long. 078-57-26.76 Horizontal D	atum: NAD 1927 X NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood in	nsur <mark>ance.</mark>
A7. Building Diagram Number 8	The state of the s
A8. For a building with a crawlspace or enclosure(s):	The state of the state of
a) Square footage of crawlspace or enclosure(s) 990 sq ft	
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot ab	pove adjacent grade 6
c) Total net area of flood openings in A8.b	
d) Engineered flood openings? Yes No	
A9. For a building with an attached garage:	
As. For a building with an attached garage.	
a) Square footage of attached garage sq ft	Table State of the second
a) Square footage of attached garage sq ft b) Number of permanent flood openings in the attached garage within 1.0 foot above adjace.	ent grade 2
	ent grade 2
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjace	ent grade 2
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjaces c) Total net area of flood openings in A9.b 440 sq in	en e
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjaces c) Total net area of flood openings in A9.b d) Engineered flood openings? Yes No	en e
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjace c) Total net area of flood openings in A9.b	RMATION
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjaces c) Total net area of flood openings in A9.b 440 sq in d) Engineered flood openings? SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMAL B – FLOOD INSURANCE RATE MAP (FIRM) INFORMAL SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMAL SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMAL SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMAL SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMAL SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMAL SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMAL SECTION B – FLOOD INSU	RMATION B3. State
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjaces c) Total net area of flood openings in A9.b 440 sq in d) Engineered flood openings? SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B – FLOOD INSURANCE RATE MAP	B3. State South Carolina B9. Base Flood Elevation(s)
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjaces. c) Total net area of flood openings in A9.b	B3. State South Carolina 39. Base Flood Elevation(s) (Zone AO, use Base Flood Depth)
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b) Number of permanent flood openings in the attached garage within 1.0 foot above adjaces c) Total net area of flood openings in A9.b SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION	B3. State South Carolina 39. Base Flood Elevation(s) (Zone AO, use Base Flood Depth)
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjaces c) Total net area of flood openings in A9.b	B3. State South Carolina 39. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 14 Item B9: Other/Source:

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MPORTANT: In these spaces, copy the corresponding information from Section A.		FOR INSURANCE COMPANY USE	
nd/or Bldg. No.) or P.O. Ro	ute and Box No.	Policy Number:	
State ZIP	Code	Company NAIC Number	
South Carolina 295	579	The same of the same of	
G ELEVATION INFORMA	TION (SURVEY R	EQUIRED)	
		uction*	
		B Park And Carlotter And Carlo	
building diagram specified	in Item A7. In Puer	R/AE, AR/A1-A30, AR/AH, AR/AO. to Rico only, enter meters.	
Vertical Datum	NGVD 29	Mark Syon	
s in items a) through h) belo	ow.		
ther/Source:	ART MISTRALIA	Floring or a series among the series	
same as that used for the	BFE.	Check the measurement used.	
awlenace or enclosure floor	No the Block of	11.5 × feet measurement used.	
awispace, or enclosure floor)	16.5 × feet meters	
ember (V Zones only)	Con Marie Con Marie Con	N/A feet meters	
	-	13.3 × feet meters	
t servicing the building Comments)	A Francisco	15.3 × feet meters	
ilding (LAG)	2 Distriction 5	11.1 × feet meters	
uilding (HAG)	र दान करें। प्रश्न कर	12.2 X feet meters	
of deck or stairs, including	g aprice of	12.1 × feet meters	
YOR ENGINEER OR AR	CHITECT CERTIF	ICATION	
sents my best efforts to inte ent under 18 U.S. Code, Sec	erpret the data avail ction 1001.	able. I understand that any false	
y a licensed land surveyor?	⊠Yes □ No	Check here if attachments.	
License Number	STATE OF THE STATE OF	THE RESERVE OF THE STATE OF THE	
SC# 26950		CARO	
		OFESSION A	
V		No. 26950	
Y MICO YE CHILD		No. 26950	
State	ZIP Code	Min JASON CONT	
South Carolina	29588	Thursday.	
Date 02/13/2019	Telephone 843-650-1500	Ext.	
C Million Control	No See A Section	THE RESERVE OF THE PARTY.	
n, per C2(e), if applicable)			
neered" vents. C2a is the ci	rawlspace elevation	n. C2b is the elevation of the finished	
ents by Flood Flaps model F	-FNF121F rated at	220 SF each for a total of 440 SF.	
	State ZIP South Carolina 29: GELEVATION INFORMA ruction Drawings* Butter construction of the build and construction of the build are construction of the build are construction of the build are including diagram specified Vertical Datum is in items a) through h) below ther/Source: The same as that used for the lawlspace, or enclosure floor ember (V Zones only) Intervicing the building Comments) Indiding (LAG) Indiding (HAG) Indiding (HAG) Indiding (HAG) Indiding Comments including are included and surveyor? License Number SC# 26950 State South Carolina Date 02/13/2019 In per C2(e), if applicable) are inches and one unobstrate inches inches inches inches inches inches inche	State ZIP Code South Carolina 29579 GELEVATION INFORMATION (SURVEY Report of the construction of the building is complete. See building diagram specified in Item A7. In Puer Vertical Datum: NGVD 29 s in items a) through h) below. ther/Source: same as that used for the BFE. awilspace, or enclosure floor) ember (V Zones only) at servicing the building (LAG) atilding (LAG) atilding (HAG) and surveyor, engineer, or architect authorized be sents my best efforts to interpret the data available and under 18 U.S. Code, Section 1001. The servicing in the sent under 18 U.S. Code, Section 1001. The sents of the s	

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IMPORTANT: In these spaces, copy the corresponding inform	nation from Section A.	nicy ent	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. N 3623 CLUSTER LANE	lo.) or P.O. Route and Bo	ox No.	Policy Number:
City	ZIP Code		Company NAIC Number
MYRTLE BEACH South Care	olina 29579 🕨		to the state of th
SECTION E – BUILDING ELEVATION FOR ZONE AO AND	INFORMATION (SUR) ZONE A (WITHOUT E		REQUIRED)
For Zones AO and A (without BFE), complete Items E1–E5. If the complete Sections A, B,and C. For Items E1–E4, use natural gradenter meters.	Certificate is intended to de, if available. Check the	support a l e measurem	OMA or LOMR-F request, ent used. In Puerto Rico only,
E1. Provide elevation information for the following and check the the highest adjacent grade (HAG) and the lowest adjacent gr a) Top of bottom floor (including basement,	appropriate boxes to sho ade (LAG).	ow whether	the elevation is above or below
crawlspace, or enclosure) is	feet	meters	above or below the HAG.
 Top of bottom floor (including basement, crawlspace, or enclosure) is 	feet	meters	
secretary members with residence of principles	vinco set 54 i vesue a triba	3.67	TANKS TO SEE SEE SEE AND
E2. For Building Diagrams 6–9 with permanent flood openings pr the next higher floor (elevation C2.b in	ovided in Section A Item	s 8 and/or 9	(see pages 1–2 of Instructions),
the diagrams) of the building is	feet		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	feet	meters	above or below the HAG.
E5. Zone AO only: If no flood depth number is available, is the to	Controllenteression		
floodplain management ordinance? Yes No	Unknown. The local offi	icial must ce	ertify this information in Section G.
SECTION F - PROPERTY OWNER (OR C	WNER'S REPRESENT	ATIVE) CER	RTIFICATION
The property owner or owner's authorized representative who cor community-issued BFE) or Zone AO must sign here. The statement	ents in Sections A, B, and	I E are corre	ect to the best of my knowledge.
Address	City	Stat	ZIP Code
Signature	Date	Tele	ephone
Comments			9707
Elevations shown in Section E calculated from elevations surveyed	ed by this office and cons	struction pla	COX SURVEYORS LLC No. 4099 THE CONTROLLED TO TH
	The state of the state of		Check here if attachments.

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OMB No. 1660-0008 Expiration Date: November 30, 2018

	he corresponding information from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., 3623 CLUSTER LANE	Unit, Suite, and/or Bldg. No.) or P.O. Route and Box	No. Policy Number:
City	State ZIP Code	Company NAIC Number
MYRTLE BEACH	South Carolina 29579	MARKET STANDARD STANDARD
T PALOTHKADA	SECTION G - COMMUNITY INFORMATION (OPTI	ONAL)
The local official who is authorized by I Sections A, B, C (or E), and G of this E used in Items G8–G10. In Puerto Rico	aw or ordinance to administer the community's flood Elevation Certificate. Complete the applicable item(s) only, enter meters.	plain management ordinance can complete and sign below. Check the measurement
G1. The information in Section C engineer, or architect who is data in the Comments area by	was taken from other documentation that has been sauthorized by law to certify elevation information. (In pelow.)	signed and sealed by a licensed surveyor, dicate the source and date of the elevation
G2. A community official complet or Zone AO.	red Section E for a building located in Zone A (without	t a FEMA-issued or community-issued BFE)
G3. The following information (Ite	ems G4–G10) is provided for community floodplain m	anagement 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 (of the building:	including basement)	feet meters Datum
G9. BFE or (in Zone AO) depth of floo	oding at the building site:	feet meters Datum
G10. Community's design flood elevati	on:	feet meters Datum
Local Official's Name	Title	
Community Name	Telephone	The state of the s
Signature	Date	
Comments (including type of equipmer	at and location, per C2(e), if applicable)	
an object and the Control		Check here if attachments.

BUILDING PHOTOGRAPHS

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See Instructions for Item A6.

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Building Street Address (including Apt., Ur 3623 CLUSTER LANE	it, Suite, and/or Bldg. No.) or P.O. Route and Box No	Policy Number:
City MYRTLE BEACH	State ZIP Code South Carolina 29579	Company NAIC Number

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



Photo One Caption FRONT VIEW

Clear Photo One

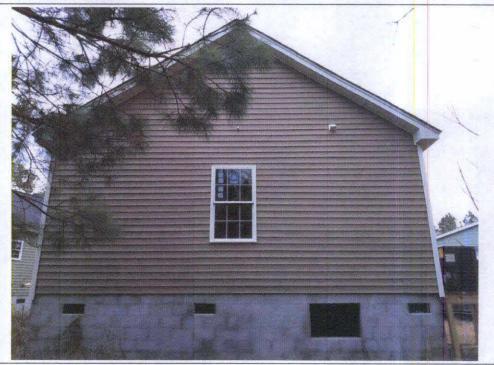


Photo Two Caption

REAR VIEW

Clear Photo Two

Arteaga Consulting, LLC 7983 Leeward Lane, Murrels Inlet, South Carolina 29576 (843) 655-6078

To:

Horry County Building Department

Attention: Mr. David Jacobs 1301 Second Avenue, Suite 1D09 Conway, South Carolina 29626

Date:

May 10, 2019

Subject:

Plan Revision of Single Family Residence,

Lot 13, Whispering Pines, 3623 Cluster Lane, Myrtle Beach, SC 29579

Horry County Building Permit Number: RES-02-18-80997

Dear Mr. Jacobs,

The Flood Vents (FV) installed on the above referenced residence comply with the design principle noted in Sections 2.7.2.2 and 2.7.3 of the ASCE/SEI 24-14 (2018 and 2015 IBC and IRC) {Section 2.6.2.2 of the ASCE/SEI 24-05 (2012 and 2009 IBC and IRC)} for a rate of rise and fall of 5 feet per hour (0.423 mm/s). This system provides for the equalization of hydrostatic flood forces on exterior walls. The FV's installed were:

Flood Flaps Automatic Flood Vents Model: FFNF12TF

This model requires a minimum of two openings, one on each side of the garage walls. Each FV handles 220 s.f. (square feet) for a total of 440 s.f. This is 10% more than required minimum of 400 s.f. Bottoms of vents are located a maximum of 12 inches above grade.

Sincerely,

Orlando Arteaga P.E.

PA 9 00