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

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

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.

SECTION A – PROPERTY INFORMATION				FOR INSUE	RANCE COMPANY USE	
A1. Building Owner's Name STACEY S. WILSON, LLC					Policy Num	ber:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 3521 TREASURE CIRCEL					Company N	IAIC Number:
City PANAMA CITY BEACH			State FLORIDA		ZIP Code 32408	
A3. Property Description (Lot and PARCEL ID #31477-000-000, LO	•		. •		VEST, TREA	ASURE CIRCLE
A4. Building Use (e.g., Residentia	al, Non-Residential, A	ddition	, Accessory, etc.)	RESIDENTIAL		
A5. Latitude/Longitude: Lat. N30	Od08'47" L	.ong. V	/85d45'05"	Horizontal Datum	n: NAD 1	1927 × NAD 1983
A6. Attach at least 2 photographs	s of the building if the	Certific	ate is being used to	obtain flood insura	ance.	
A7. Building Diagram Number	1B	٠				
A8. For a building with a crawlspa	ace or enclosure(s):					
a) Square footage of crawlsp	pace or enclosure(s)		0 sq ft			
b) Number of permanent floo	od openings in the cra	wispac	e or enclosure(s) w	ithin 1.0 foot above	adjacent gr	ade 0
c) Total net area of flood ope	enings in A8.b 0	s	q in			
d) Engineered flood openings	s? ☐ Yes ☒ No)				
A9. For a building with an attache	ed garage:					
a) Square footage of attache	400		sq ft			
b) Number of permanent floo			•	nt ahove adjacent o	ırade	4
c) Total net area of flood ope	-	24	sq in	or above adjacent s		
			. 34 111			
d) Engineered flood openings	s? ⊠ Yes ☐ No)				
SEC	TION B - FLOOD IN	SURA	NCE RATE MAP	(FIRM) INFORMA	TION	
B1. NFIP Community Name & Col BAY COUNTY UNINCORPORAT	•		B2. County Name BAY			B3. State FLORIDA
B4. Map/Panel B5. Suffix Number	B6. FIRM Index Date	l E	IRM Panel ffective/ evised Date	B8. Flood Zone(s)	(Zo	se Flood Elevation(s) ne AO, use Base od Depth)
12005C0319 H	06/02/2009		06/02/2009	AE	1 100	8.0
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:						
☐ FIS Profile ☒ FIRM ☐	Community Determ	ined [_ Other/Source: _		——————————————————————————————————————	
B11. Indicate elevation datum use	ed for BFE in Item B9:	N	GVD 1929 ⊠ NA	VD 1988 🔲 Otl	ner/Source:	
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No						
Designation Date:		BRS	☐ OPA			

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IMPORTANT: In these spaces, copy the corresponding	information from Sect	ion A.	V	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or 3521 TREASURE CIRCEL	Bldg. No.) or P.O. Route	e and Box N	0.	Policy Number:
City Sta PANAMA CITY BEACH FLO	te ZIP C DRIDA 3240	Section 1		Company NAIC Number
SECTION C – BUILDING EL	EVATION INFORMATI	ON (SURV	EY RE	EQUIRED)
C1. Building elevations are based on: Construction *A new Elevation Certificate will be required when concentration *C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), Complete Items C2.a—h below according to the build Benchmark Utilized: P 182 ELEVATION 15.02 Indicate elevation datum used for the elevations in in the supplementary in the s	onstruction of the buildin VE, V1–V30, V (with BF ding diagram specified in Vertical Datum: 1 tems a) through h) below	E), AR, AR// Item A7. In NAVD 88	e. A, AR//	 AE, AR/A1–A30, AR/AH, AR/AO.
Datum used for building elevations must be the sam		E.		01
a) Top of bottom floor (including basement, crawlsp	pace or enclosure floor)	9.	0	Check the measurement used.
b) Top of the next higher floor	doc, or endocate moor)	19		
c) Bottom of the lowest horizontal structural member	er (V Zones only)	NA.		
d) Attached garage (top of slab)	or (v Zones omy)		4	
Example 1 Example 2 Example 2 Example 2 Example 3 Example 3 Example 4	vicing the building	9.	1	
f) Lowest adjacent (finished) grade next to building	(LAG)	5.	8	× feet meters
g) Highest adjacent (finished) grade next to building	(HAG)	7.	1	× feet meters
h) Lowest adjacent grade at lowest elevation of dec structural support	00	NA.		
SECTION D - SURVEYOR	ENGINEER, OR ARC	HITECT CE	RTIFI	CATION
This certification is to be signed and sealed by a land su I certify that the information on this Certificate represents statement may be punishable by fine or imprisonment ur	my best efforts to interp	ret the data	zed by availa	law to certify elevation information. ble. I understand that any false
Were latitude and longitude in Section A provided by a li	censed land surveyor?	⊠ Yes □	No	Check here if attachments.
Certifier's Name WILLIAM E. MCDANIEL	License Number L.B.#5800 L.S.#4369	9		PSN 4369 ** PSN 4369 ** ** ** ** ** ** ** ** **
Title REGISTERED LAND SURVEYOR				I CENSE ICENSE
Company Name SEA LEVEL SURVEYING AND MAPPING, INC.				PSM 4369 ** ** ** ** ** ** ** ** ** ** ** ** **
Address 1219 MAINE AVENUE				TATE
City LYNN HAVEN	State FLORIDA	ZIP Code 32444		SURVEYOR MINING
Signature	Date 05/18/2018	Telephone (850) 265-4	800	
Copy all pages of this Elevation Certificate and all attachme	ents for (1) community offi	cial, (2) insur	ance a	agent/company, and (3) building owner.
Comments (including type of equipment and location, pe C2(e) AIR CONDITION PAD OUTSIDE OF STRUCTURE				
FEMA Form 096 0 22 (7/45)				Form Page 2 of 6

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspon	FOR INSURANCE COMPANY USE					
Building Street Address (including Apt., Unit, Suite, at 3521 TREASURE CIRCEL	nd/or Bldg. No.) or P.C). Route and Box No.	Policy Number:			
City PANAMA CITY BEACH	State FLORIDA	ZIP Code 32408	Company NAIC Number			
SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)						
For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B,and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.						
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).a) Top of bottom floor (including basement,						
crawlspace, or enclosure) is b) Top of bottom floor (including basement,	,	feet meter	s above or below the HAG.			
crawlspace, or enclosure) is		feet meter				
E2. For Building Diagrams 6–9 with permanent flood the next higher floor (elevation C2.b in the diagrams) of the building is	openings provided in	Section A Items 8 and/or				
E3. Attached garage (top of slab) is						
E4. Top of platform of machinery and/or equipment servicing the building is			rs			
E5. Zone AO only: If no flood depth number is availal floodplain management ordinance? Yes		ottom floor elevated in ac	cordance with the community's			
SECTION F - PROPERTY OV	VNER (OR OWNER'S	REPRESENTATIVE) CI	ERTIFICATION			
The property owner or owner's authorized representate community-issued BFE) or Zone AO must sign here.	tive who completes Se The statements in Sec	ections A, B, and E for Zo tions A, B, and E are cor	one A (without a FEMA-issued or rect to the best of my knowledge.			
Property Owner or Owner's Authorized Representative	e's Name					
Address	City	St	ate ZIP Code			
Signature	Date	e Te	lephone			
Comments						
	•		•			
		·				
			Check here if attachments.			

ELEVATION CERTIFICATE

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

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IMPORTANT: In these spaces, copy the corre	ection A.	FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, St 3521 TREASURE CIRCEL	oute and Box No	p. Policy Number:	
City PANAMA CITY BEACH		P Code 2408	Company NAIC Number
SECTIO	N G - COMMUNITY INFORMA	TION (OPTION	AL)
The local official who is authorized by law or or Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, en	Certificate. Complete the applic	unity's floodplair able item(s) and	n management ordinance can complete d sign below. Check the measurement
			ed and sealed by a licensed surveyor, ate the source and date of the elevation
G2. A community official completed Section Zone AO.	on E for a building located in Zo	ne A (without a l	FEMA-issued or community-issued BFE)
G3. The following information (Items G4–	G10) is provided for community	floodplain mana	agement purposes.
G4. Permit Number	G5. Date Permit Issued	C	G6. Date Certificate of Compliance/Occupancy Issued
RB18-0030	1-18-18		Compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction Substan	tial Improvemen	nt
G8. Elevation of as-built lowest floor (including of the building:	g basement)		feet meters Datum
G9. BFE or (in Zone AO) depth of flooding at t	he building site:	□	feet meters Datum
G10. Community's design flood elevation:		□	feet meters Datum
Local Official's Name	Title		
Community Name	Telepho	one	
Signature	Date	5/	18/18
Comments (including type of equipment and loc AC was Raisea	eation, per C2(e), if applicable) OK Fox	C. O.	,
used 4 8×16.	Smart Vents.	•	
Sales Shipping ,	ittached a	150.	
			Check here if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information from Section A.				
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 3521 TREASURE CIRCEL				
State	ZIP Code	Company NAIC Number		
FLORIDA	32408	i the special section of		
	Unit, Suite, and/or Bldg. No.) o	Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. State ZIP Code		

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





Photo One Photo Two

Photo One Caption Photo Two Caption





Photo Three Photo Fou

Photo Three Caption Photo Four Caption

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy t	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 3521 TREASURE CIRCEL			policy Number:
City	State	ZIP Code	Company NAIC Number
PANAMA CITY BEACH	FLORIDA	32408	

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 Five		Photo Six	
Photo Five Caption	Photo Six Caption		
	_		
Photo Seven		Photo Eight	
Photo Seven Caption	Photo Eight Caption		1

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 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_o) for a given <u>enclosed area</u> (A_e). 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_e) 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_o) as provided by the manufacturer.

Installation 1	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

 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.

*)	Model	H x W [in]	A _o [in ²]	A _e [ft²]
X	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_e) that can be serviced by each individual model based on the given <u>net area</u> of engineered openings (A_o)

Certifying Design Professional

Name	Steve A. Geci	Title President	WEVE A. CALL
Company	Geci & Associates Engineers, Inc.		S. CENSKO
Address	2950 N 12 th Avenue, Pensacola, FL 32503		* No. 33658 *
License	Florida	License No. 33658	STATE OF
Signature		Date: 11/29/17	ORIDA:

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

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Product	Quantity	Price
Engineered Flood Vents - Black, 8"x16"	4	\$316.00
Subtotal:		\$316.00
Shipping:	·	\$19.72 via Ground (UPS)
Payment method:		Credit Card
Total:		\$335.72

Billing address

Shipping address

Tara WILSON 3515 treasure circle PANAMA CITY BEACH, FL 32408 8502768881 staceyswilson@hotmail.com Tara WILSON 3515 treasure circle PANAMA CITY BEACH, FL 32408

Crawl Space Door Systems, Inc.

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