ELEVATION CERTIFICATE

IMPORTANT: Follow the instructions on pages 1-9.

OMB No. 1660-0008 Expiration Date: July 31, 2015

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 PO. Route and Box No. ZIJ N. CLARENDON AVENUE	Company NAIC Number:					
City ARGATE State	ZIP Code 08402					
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)						
 A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>12€5196A7142</u> A5. Latitude/Longitude: Lat. <u>39.33628°</u> Long. <u>-74.49936°</u> Horizontal A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number <u>8</u> A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s): b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade c) Total net area of flood openings: n A8.b d) Engineered flood openings? ¥Yes No 	Datum: \square NAD 1927 \searrow NAD 1983 ttached garage: ttached garage $\cancel{N/A}$ sq ft int flood openings in the attached garage e adjacent grade $\cancel{N/A}$ od openings in A9.b $\cancel{N/A}$ sq in benings? \square Yes \bigotimes No					
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATI	ON					
B1. NFIP Community Name & Community Number B2. County Name CITY OF MARGATE CITY 345304 B4. Map/Panel Number B5. Suffix B5. Suffix B6. FIRM Index Date B7. FIRM Panel Effective/ Revised Date B8. Flood Zone B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:	(s) B9. Base Flood Elevation(s) (Zone A0, use base flood depth)					
□ FIS Profile ☑ FIRM □ Community Determined □ Other/Source:	e: Yes 2 No					
SECTION C - BUILDING FLEVATION INFORMATION (SUBVEY REQUIRED)						
 C1. Building elevations are based on: □ Construction Drawings* □ Building Under Construction* *A new Elevation Certificate will be required when construction of the building is complete. C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: PAN I Vertical Datum: NGVD 1929 NAVD 1988 Datum used for building elevations must be the same as that used for the BFE. a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 9. Construction Pawings* 0. Construction of the building float and the same as that used float the BFE. 	Finished Construction AH, AR/AO. Complete Items 29 Other/Source: measurement used. t □ meters					
b) Top of the next higher floor 12.9 [] fee c) Bottom of the lowest horizontal structural member (V Zones only) $N A$. [] fee d) Attached garage (top of slab) $N A$. [] fee	et					
 e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) f) Lowest adjacent (finished) grade next to building (LAG) g) Highest adjacent (finished) grade next to building (HAG) h) Lowest adjacent grade at lowest elevation of deck or stairs, including b) Lowest adjacent grade at lowest elevation of deck or stairs, including c) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	et meters et meters et meters et meters					
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICAT	ION					
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify eleva information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. Check here if comments are provided on back of form. Check here if attachments. Certifier's Name	GS 33541 HACE					
HOWARD A. TRANSUE Title PROFESSIONAL LAND SURVEYOR Company Name SCHAEFFER NASSAR SCHEIDEGG CE, LLC Address I425 CANTILLON BOULEVARD Signature Date 2022204 City State City Stat	SEAL HERE 2/23/2016					
/ V/	[

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ELEVATION CERTIFICATE, page 2

LEEVANON CERTITION	, p. B. =						
IMPORTANT: In these space	es, copy the corresponding ir	nformation from Se	ection A.		FC	OR INSURANCE	E COMPANY USE
Building Street Address (inc	luding Apt., Unit, Suite, and/o	or Bidg. No.) or PO. I	Route and Box No.		Pc	blicy Number:	and the second
ZIT N. CLAR	ENDON AVENUE						
City MARGATE		State	ZIP Code	2	Co	ompany NAIC Nu	mber:
	SECTION D - SURVEYOR	R, ENGINEER, OF	R ARCHITECT C	ERTIFICA	TION (CON	TINUED)	
Copy both sides of this Elev	ation Certificate for (1) comm	unity official, (2) ins	surance agent/com	pany, and (3	3) building ov	vner.	
Comments ITEM A8 RATE A7 120	D VENTS ARE CRA HO SQ. IN EACH.	AWL SPACE DO	or systems	FLOOD VO	ENTS MO	DEL 20	32 C 5
ITEM CZE IS T	HE A.C. PADS.			a a			
Signature	LQ.C		Date	2/23	12016		
SECTION E - BUILD	ING ELEVATION INFORM	IATION (SURVE)	Y NOT REQUIRE	D) FOR Z	ONE AO AN	D ZONE A	(WITHOUT BFE)
For Zones AO and A (without For Items E1–E4, use natura	BFE), complete Items E1–E5. I grade, if available. Check the	. If the Certificate is e measurement use	s intended to supp ed. In Puerto Rico	ort a LOMA only, enter m	or LOMR-F re neters.	quest, comple	te Sections A, B, and C
grade (HAG) and the low	est adjacent grade (LAG).	or the appropriate	DOXES TO SHOW WIT				ie nignest aujacent
a) Top of bottom floor (in	icluding basement, crawlspace	e, or enclosure) is	·	_ 🗌 feet	meters	above or	below the HAG.
b) Top of bottom floor (in	cluding basement, crawlspace	e, or enclosure) is	••	_ 🗌 feet	∐ meters	□ above or	L below the LAG.
E2. For Building Diagrams 6-	-9 with permanent flood openi	ings provided in Se	ction A Items 8 an	d/or 9 (see	pages 8-9 o	f Instructions)	
the next higher floor (ele	vation C2.b in the diagrams) o	of the building is	·	_ ∐ feet		above or	below the HAG.
ES. Attached galage (top of s	5100/15						
E4. lop of platform of machin	nery and/or equipment servici	the tee of the bett			L) meters	L above or	L below the HAG.
FE Zana AO anhu If no flood	uepui number is available, is	the top of the both	om noor elevated i	n accordanc	ce with the co	ommunity's not	oopiain management
E5. Zone A0 only: If no flood ordinance? Yes	No 🗌 Unknown. The local of	official must certify	this information in	Section G.			
E5. Zone AO only: If no flood ordinance? Tes	No Unknown. The local of SECTION F – PROPERTY	OWNER (OR OV	this Information ir	SENTATIV	E) CERTIFI	ICATION	14-329
E5. Zone A0 only: If no flood ordinance? Yes The property owner or owner Zone A0 must sign here. The Property Owner or Owner's A	No Unknown. The local of SECTION F – PROPERTY 's authorized representative w statements in Sections A, B, uthorized Representative's Na	OWNER (OR OV who completes Sect , and E are correct	this Information in WNER'S REPRE tions A, B, and E for to the best of my h	SENTATIV SENTATIV or Zone A (wi knowledge.	E) CERTIFI	ICATION A-issued or cor	ノイ - 329 mmunityissued BFE) o
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Check here if attachments.

Certification of Engineered Flood Openings In accordance with NFIP, FEMA TB 1-08, and ASCE/SEI 24-05

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 NFIP "Flood Insurance Manual" (2011) **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. This certification follows the design requirements and specifications established in FEMA Technical Bulletin 1-08, "Openings in Foundation Walls and Walls of Enclosures Below Elevated Buildings in Special Flood Hazard Areas", and the ASCE Standard for "Flood Resistant Design and Construction" (ASCE/SEI 24-05).

Design Characteristics

Section 2.6.2.2 of ASCE 24 provides an equation to determine the required <u>net area</u> of engineered openings (A_o) for a given <u>enclosed</u> <u>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 respected flow rate through the individual openings between louvers; 2) the flow rate through the main frame opening in case the louver is blown out during a flood event; and 3) the flow rate of water flowing through louver blades following hydraulic short tube theory. The ultimate 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 with 5 feet/hour;
- The (maximum) difference between the exterior and interior floodwater levels has been assumed with 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 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;
- The bottom of each required opening shall be no more than 1ft above the adjacent ground level;
- A A_e [ft²] HxW *) Model $[in^2]$ [in] 816CS 8 x 16 105 205 1220CS 12 x 20 235 500 12 x 32 305 1232CS 645 1616CS 16 x 16 180 395 1624CS 16 x 24 310 670 16 x 32 1632CS 405 835 2032CS 20 x 32 630 1240 2424CS 24 x 24 570 1230 2436CS 24 x 36 850 1765

 $\begin{array}{c} \textbf{Table 1 Maximal total <u>enclosed area</u>} (A_e) that can be served by each individual model based on the given <u>net area</u> of engineered openings (A_o) \end{array}$

- 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 analysis indicates rates of rise and fall greater than 5 ft/hr, the total enclosed area as given in Table 1 shall be reduced accordingly to account for the higher rates of rise and fall.

Identification of the Building and Installed Flood Vents

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

Certifying Design Professional

Name	WILLIAM S. SWIDERSKI, P.E.	SSEV 2
Title	ENGINEER	Stores -
Address	599 SHORE ROAD, SOMERS POINT, NJ 08244	2 PAG
Type of License	PROFESSIONAL ENGINEER	EAL STREET
License #	20482 Signature	
Issuing State	NEW JERSEY	. ·