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					FC	OR INSU	RANCE COMPANY USE	
A1. Building Owner's Name DAVCO CONSTRUCTION, iNC.						olicy Num	ber:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 300 N. CLERMONT AVENUE Company NAIC Number:					IAIC Number:			
City MARGATE	City State ZIP Code							
A3. Property Desci		and Block Numbers, T	ax Parce	l Number, Le	gal Description	n, etc.)		
A4. Building Use (∍.g., Resider	ntial, Non-Residential,	, Addition	n, Accessory,	etc.) RESID	DENTIAL		
A5. Latitude/Longit	:ude: Lat. <u>3</u>	9.33592	Long	74.49990	Horizo	ontal Datum: [NAD 1	1927 × NAD 1983
A6. Attach at least	2 photograp	ohs of the building if th	e Certific	cate is being	used to obtain	flood insuranc	e.	
A7. Building Diagra	am Number	7						
A8. For a building w	with a crawls	space or enclosure(s):						
a) Square foot	age of crawl	Ispace or enclosure(s))		1015.00 sq ft			
		ood openings in the cr				foot above adj	acent gra	ade 5
c) Total net are	ea of flood of	penings in A8.b	1	1025.00 sq i	n			
d) Engineered	flood openin	ngs? X Yes 1	No					
A9. For a building w	ith an attach	ned garage:						
a) Square foots	age of attach	ed garage		N/A sq f	t			
b) Number of p	ermanent flo	ood openings in the at	ttached g	arage within	1.0 foot above	adjacent grad	e N/A	
c) Total net are	a of flood op	penings in A9.b		N/A sq	ı in			
d) Engineered f	flood opening	gs? Yes X	10					
	SE	ECTION B - FLOOD	INSURA	NCE RATE	MAP (FIRM)	INFORMATIC	N	18-339
B1. NFIP Communit	-	ommunity Number		B2. County ATLANTIC	Name			B3. State New Jersey
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	RM Panel ective/ vised Date	B8. Flood Zone(s)			levation(s) e Base Flood Depth)
34001C0453								
-		Base Flood Elevation Community Deterr						
		sed for BFE in Item B			***************************************		Source:	
							_	
				rstem (CBRS) area or Other	wise Protected	d Area (C	PPA)? ☐ Yes ⊠ No
Designation D	ate:		CBRS	☐ OPA				

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IMPORTANT: In these spaces, copy the	FOR INSURANCE COMPANY USE				
Building Street Address (including Apt., Un 300 N. CLERMONT AVENUE	Policy Number:				
City	State ZIP	Code	Company NAIC Number		
MARGATE	New Jersey 084	02			
SECTION C -	BUILDING ELEVATION INFORMA	TION (SURVEY RE	EQUIRED)		
C1. Building elevations are based on: *A new Elevation Certificate will be re	Construction Drawings* Buile	ding Under Construng is complete.	ction* X Finished Construction		
•	rding to the building diagram specified	in Item A7. In Puerto	AE, AR/A1-A30, AR/AH, AR/AO. o Rico only, enter meters.		
Benchmark Utilized: LOCAL BENCH					
	e elevations in items a) through h) belo	W.			
☐ NGVD 1929 ☑ NAVD 19	988	RFF			
Datum used for building elevations in	has be the same as that asea for the E		Check the measurement used.		
a) Top of bottom floor (including bas	sement, crawlspace, or enclosure floor		5.78 × feet meters		
b) Top of the next higher floor			12.06 × feet meters		
c) Bottom of the lowest horizontal st	tructural member (V Zones only)		N/A feet meters		
d) Attached garage (top of slab)			N/A feet meters		
 e) Lowest elevation of machinery or (Describe type of equipment and 	equipment servicing the building location in Comments)		12.52 × feet meters		
f) Lowest adjacent (finished) grade	next to building (LAG)		5.34 × feet meters		
g) Highest adjacent (finished) grade	e next to building (HAG)		5.71 × feet meters		
 h) Lowest adjacent grade at lowest structural support 	elevation of deck or stairs, including		5.52 × feet meters		
SECTION D	- SURVEYOR, ENGINEER, OR AR	CHITECT CERTIFI	ICATION /8-339		
This certification is to be signed and seal I certify that the information on this Certif statement may be punishable by fine or in	icate represents my best efforts to inte	rpret the data avaıla	law to certify elevation information. Ible. I understand that any false		
Were latitude and longitude in Section A		⊠Yes □ No			
Certifier's Name HOWARD A. TRANSUE	License Number GS33541				
Title PROFESSIONAL LAND SURVEYOR			ଜ <i>s 3</i> 354 / Place		
Company Name SCHAEFFER NASSAR SCHEIDEGG, CE, LLC			Seal		
Address 1425 CANTILLON BOULEVARD			Here		
City MAYS LANDING	State New Jersey	ZIP Code 08330	7), 2019		
Signature	Date 07-01-2019	Telephone (609) 625-7400	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 ITEM A8b VENTS ARE CRAWL SPACE ITEM C2e IS THE A.C. PAD.		TED AT 205 SQ. IN	J. EACH.		

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding information from Section A. FOR INSURANCE COMPAN				
300 N	ng Street Address (including Apt., Unit, Suite, and I. CLERMONT AVENUE			Policy Number:
City MAR			ZIP Code 08402	Company NAIC Number
	SECTION E – BUILDING ELI FOR ZONE	VATION INFORMA AO AND ZONE A (TION (SURVEY NOT WITHOUT BFE)	REQUIRED)
comp	ones AO and A (without BFE), complete Items E1- lete Sections A, B,and C. For Items E1–E4, use na meters.	-E5. If the Certificate in atural grade, if availab	s intended to support a le. Check the measure	LOMA or LOMR-F request, ment used. In Puerto Rico only,
th	Provide elevation information for the following and the highest adjacent grade (HAG) and the lowest a company of bottom floor (including basement, crawlspace, or enclosure) is	check the appropriate djacent grade (LAG).		
b	Top of bottom floor (including basement, crawlspace, or enclosure) is			
th	or Building Diagrams 6–9 with permanent flood op ne next higher floor (elevation C2.b in ne diagrams) of the building is	enings provided in Se	ection A Items 8 and/or	
	ttached garage (top of slab) is		feet meter	
E4. T	op of platform of machinery and/or equipment ervicing the building is		feet meter	
E5. Z	one AO only: If no flood depth number is available podplain management ordinance? Yes	, is the top of the bott No Unknown.	om floor elevated in acc The local official must c	cordance with the community's certify this information in Section G.
	SECTION F - PROPERTY OWN	ER (OR OWNER'S R	EPRESENTATIVE) CE	RTIFICATION /9-339
The pr	roperty owner or owner's authorized representative unity-issued BFE) or Zone AO must sign here. The	e who completes Sect e statements in Section	ions A, B, and E for Zo	ne A (without a FEMA-issued or
Proper	ty Owner or Owner's Authorized Representative's	Name		
Addres	SS	City	Sta	ate ZIP Code
Signat	ure	Date	Tel	ephone
Comm	ents			
				Check here if attachments.

ELEVATION CERTIFICATE

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

MPORTANT: In these spaces, copy the corresponding information from Section A. FOR INSURANCE COMPANY USE				
Building Street Address (including Apt., Unit, St. 300 N. CLERMONT AVENUE	uite, and/or Bldg. No.) or P.O.	Route and Box No.	Policy Number:	
City MARGATE	State New Jersey	ZIP Code 08402	Company NAIC Number	
SECTIO	N G - COMMUNITY INFORI	MATION (OPTIONAL)	18-339	
The local official who is authorized by law or ord Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, en	Certificate. Complete the app	nmunity's floodplain mar blicable item(s) and sign	nagement ordinance can complete below. Check the measurement	
G1. The information in Section C was take engineer, or architect who is authorized data in the Comments area below.)	en from other documentation ed by law to certify elevation	that has been signed ar information. (Indicate the	nd sealed by a licensed surveyor, e source and date of the elevation	
G2. A community official completed Section or Zone AO.	on E for a building located in	Zone A (without a FEMA	A-issued or community-issued BFE)	
G3. The following information (Items G4–	G10) is provided for commun	ity floodplain manageme	ent purposes.	
G4. Permit Number	G5. Date Permit Issued		Date Certificate of compliance/Occupancy Issued	
G7. This permit has been issued for:	New Construction Subs	tantial Improvement		
G8. Elevation of as-built lowest floor (including of the building:	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	CFI	1	
Community Name MANO	Tele (A)	phone 605 - 82	2- 1918	
Signature	Date	7/3/0	· · 5	
Comments (including type of equipment and loo	ation, per C2(e), if applicable			
			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, co	FOR INSURANCE COMPANY USE		
Building Street Address (including / 300 N. CLERMONT AVENUE	Policy Number:		
City MARGATE	State New Jersey	ZIP Code 08402	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

Photo One Caption FRONT VIEW AND LEFT SIDE VIEW

8-339

Clear Photo One



Photo Two

Photo Two Caption FRONT VIEW AND RIGHT SIDE VIEW

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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

IMPORTANT: In these spaces, copy	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 300 N. CLERMONT AVENUE			Policy Number:
City MARGATE	State New Jersey	ZIP Code 08402	Company NAIC Number

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 REAR VIEW



Clear Photo Three



06.25.2019 15:15

Photo Four

Photo Four Caption CRAWL SPACE DOOR SYSTEMS FLOOD VENT MODEL 816CS TYPICAL OF 5

Clear Photo Four Form Page 6 of 6

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

18-339

Section 2.6.2.2 of ASCE 24 provides an equation to determine the required net area of engineered openings (Ao) for a given enclosed area (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 (Ae) 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
	Just ormone	WALL ADJAMANDA DA DAZO

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;

*)	Model	HxW	Ao	A _e
,	iviouei	[in]	[in ²]	[ft ²]
7	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 Maximal total enclosed area (Ae) that can be served by each individual model based on the given net area of engineered openings (Ao)

- 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

300 N. CLERMONT AVENUE, MARGATE

Certifying Design Professional

Name	WILLIAM S. SWIDERSKI, P.E.
Title	ENGINEER
Address	599 SHORE ROAD, SOMERS POINT, NJ 08244
Type of License	PROFESSIONAL ENGINEER
License #	20482 Signature
Issuing State	NEW JERSEY 1/24 (E

