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 INSURANCE COMPANY USE		
A1. Building Owner's Name Davco Construction				Policy Numi	ber:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. #15 North Union Avenue				Company N	AIC Number:	
City CITY OF MARGATE			State New Jersey		ZIP Code 08402	
A3. Property Description (Lot a Block 221 Lot 1	A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Block 221 Lot 1					
A4. Building Use (e.g., Resider	itial, Non-Residential, A	ddition	, Accessory, etc.)	RESIDENTIAL		
A5. Latitude/Longitude: Lat. 3	9.3257 <u></u> L	ong	74.5114	Horizontal Datun	n:	927 × NAD 1983
A6. Attach at least 2 photograp	hs of the building if the	Certific	cate is being used to	o obtain flood insura	ance.	
A7. Building Diagram Number	7					
A8. For a building with a crawls	pace or enclosure(s):					
a) Square footage of crawl	space or enclosure(s)		1,148 sq ft			
b) Number of permanent flo	ood openings in the cra	wlspac	e or enclosure(s) w	ithin 1.0 foot above	adjacent gra	ade6
c) Total net area of flood of	penings in A8.b1,38	30 s	sq in			
d) Engineered flood openir	gs? 🗵 Yes 🗌 No)				
A9. For a building with an attack	ned garage:	•				•
a) Square footage of attach			sq ft		-	
b) Number of permanent flo			•	nt above adjacent o	urada	0
				or above adjacem g		
c) Total net area of flood openings in A9.b o sq in d) Engineered flood openings?						
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION						
B1. NFIP Community Name & C CITY OF MARGATE & 345			B2. County Name ATLANTIC COUN	TY		B3. State New Jersey
B4. Map/Panel B5. Suffix Number	B6. FIRM Index Date	E.	IRM Panel ffective/ evised Date	B8. Flood Zone(s	(Zor	e Flood Elevation(s) ne AO, use Base nd Depth)
34001C0434 F	08/28/2018		/2018	AE	9	и Берип)
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:						
☐ FIS Profile ☑ FIRM ☐ Community Determined ☐ Other/Source:						
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source:						
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No						
Designation Date: CBRS DPA						
			•			

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corre	FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, Su #15 North Union Avenue	Policy Number:			
City CITY OF MARGATE	State ZIP New Jersey 0840	Code 02	Company NAIC Number	
SECTION C - BUIL	DING ELEVATION INFORMAT	TON (SURVEY RI	EQUIRED)	
SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) C1. Building elevations are based on:				
c) Bottom of the lowest horizontal structure	ral member (V Zones only)	N/A	X feet meters	
d) Attached garage (top of slab)		N/A.	x feet meters	
e) Lowest elevation of machinery or equip (Describe type of equipment and locati	oment servicing the building on in Comments)	13. 4	x feet meters	
f) Lowest adjacent (finished) grade next t	to building (LAG)	7. <u>5</u>	🔀 feet 🗌 meters	
g) Highest adjacent (finished) grade next	to building (HAG)	<u>7</u> . <u>8</u>	x feet meters	
h) Lowest adjacent grade at lowest elevat structural support	tion of deck or stairs, including	7, 3	X feet meters	
SECTION D - SUF	RVEYOR, ENGINEER, OR ARC	CHITECT CERTIF	ICATION	
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation 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. Were latitude and longitude in Section A provided by a licensed land surveyor?				
Certifier's Name	License Number			
Paul M. Koelling, PLS, CFM	NJ24GS 04328800			
Title Licensed Land Surveyor			•	
Company Name Paul Koelling & Associates, LLC NJ C.O.A. N Address 2161 Shore Road	Place Seal Here			
City	State	ZIP Code		
Linwood	New Jersey	08221		
Signature and Total	Date 10-23-19	Telephone (609) 927-0279		
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 and location, per C2(e), if applicable) *A8b.) Six (6) Crawl Space Door Systems Model #D0816 engineered for 230 square inches of net area each **C2a.) enclosure with garages, foyer, stairs, mechanical room (elev 7.8)elevator pit (elev 6.8)				
***C2e.) exterior air unit (elev 14.4)furnace (elev 13.4)ductwork (elev 13.4)				

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, a #15 North Union Avenue	nd/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:			
CITY OF MARGATE	State New Jersey	ZIP Code 08402	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 me	ters			
crawlspace, or enclosure) is	oponingo provide d	feetme	timed timed			
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		ters above or below the HAG.			
E3. Attached garage (top of slab) is		feet me	ters above or below the HAG.			
E4. Top of platform of machinery and/or equipment servicing the building is		feet me	ters			
	E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown. The local official must certify this information in Section G.					
SECTION F - PROPERTY OV	VNER (OR OWNE	R'S REPRESENTATIVE)	CERTIFICATION			
The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.						
Property Owner or Owner's Authorized Representativ	e's Name					
Address	(City	State ZIP Code			
Signature	ſ	Date	Telephone			
Comments						
		V·				
1						
*						
	•		Check here if attachments.			

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corre	FOR INSURANCE COMPANY USE				
#15 North Union Avenue	uilding Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.				
CITY OF MARGATE	State New Jersey	ZIP Code 08402	Company NAIC Number		
SECTIO	N G - COMMUNITY INF	ORMATION (OPTIONAL)			
The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.					
G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)					
G2. A community official completed Section or Zone AO.					
G3. The following information (Items G4–	G10) is provided for com	munity floodplain managem	ent purposes.		
G4. Permit Number	G5. Date Permit Issued		Date Certificate of Compliance/Occupancy Issued		
G7. This permit has been issued for:	New Construction S	ubstantial Improvement			
G8. Elevation of as-built lowest floor (including of the building:	basement)	feet	t meters Datum		
G9. BFE or (in Zone AO) depth of flooding at t	he building site:	feet	t meters Datum		
G10. Community's design flood elevation:	***************************************	feet	t meters Datum		
Local Official's Name Title Ton backetone Community Name Telephone MANCATA Total					
Community Name	SAJL	Telephone	609-822-1574		
Signature C2Cl		Date	609.822.157x 10/22/15		
Comments (including type of equipment and loc	ation, per C2(e), if applica	able)			
			Check here if attachments.		

Certification of Engineered Flood Openings (TB 1 - August 2008)

I do hereby certify that the CRAWLSPACE FEMA FLOOD LOUVER, Patent No. US D583,042, dated December 16, 2008 and owned by Crawl Space Door Systems, Inc. properly installed and sized in accordance with Federal Emergency Management Agency's National Flood Program regulations (44 CFR 60.3(c)(5)) and National Flood Insurance Program, Technical Bulletin (TB) 1-August 2008 is designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for entry and exit of floodwater during floods up to and including the base (100-year) flood,

I also do hereby certify that I calculated the Non-Engineered, and Engineered Opening size for each model and size of the Flood Louvers. The results of the calculations are recorded in the table below. The Engineered size opening calculation was performed by using the formula in TB 1 - August 2008, Openings in Foundation Walls for Buildings Located in Special Flood Hazard Areas in accordance with the National Flood Insurance Program and ASCE/SEI 24-05, Flood Resistance Design and Construction. The Net-Free Air opening size for each model was provided by the manufacturer. I used the formula ($A^{\circ} = 0.033 [1/C] RA\hat{e}$) in TB 1 - Aug 2008 to determine the Engineered opening size for each model. I used the following assumptions: A°=total net area of openings required (in²); $0.033 = \text{coefficient corresponding to a factor of safety of 5.0 (in^2 \cdot \text{hr/ft}^3); c = 0.40 opening coefficient (ASCE 24 Table 2-2 "rectangular,"$ long axis horizontal, short axis vertical unobstructed during design flood", c = 0.35 opening coefficient square; there is an unobstructed rectangular shape between the louvers); R = 5 ft/hr worst case rate of rise and fall; and $A\hat{e} = total$ enclosed area.

D0816: = $95 \text{ in}^2/0.4125 \text{ in}^2 \text{ per ft}^2 = 230 \text{ ft}^2$

505

435

665

1,224

923

1,612

$A^{\circ}/Ae = 0.033[1/C]R = 0.033[1/0.40]5 = 0.4125 \text{ in}^2 \text{ per ft}^2 \text{ enclosed area}$

Example:

20" x 32"

24" x 24"

24" x 36"

Model # Size (HXW) Non-Engineered (Sq Net-Free Air (Sq. Engineered (Sq. Inches) Inches) Inchè D0816 8" x 16" 128 230 D1220 12" x 20" 240 175 424 D1232 12" x 32" 384 290 703 D1616 16" x 16" 256 200 424 D1624 16" x 24" 384 285 691 D1632 16" x 32" 512 385 933

640

576

864

Installation Limitations and Instructions

Each individual opening, and any louvers, screens, or other covers, shall be designed to allow automatic entry and exit of floodwaters during design flood or lesser flood conditions; there shall be a minimum of two openings on different sides of each enclosed area; if a structure has more than one enclosed area below the DFE, each area shall have openings; openings shall not be less than 3 inches in any direction in the plane of the wall; the bottom of each required opening shall be no more than 1 ft above the adjacent ground level; the difference between the exterior and interior floodwater levels shall not exceed 1 ft during base flood conditions; in the absence of reliable data on the rates of rise and fall, assume a minimum rate of rise and fall of 5 ft/h; where data or analysis indicates more rapid rates of rise and fall, the total net area of the required opening shall be increased to account for the higher rates of rise and fall.

Name: William S. Swiderski, P.E.

D2032

D2424

D2436

Company: Swiderski Associates

Address: 599 Shore Road, Somers Point, NJ 08244

X Date: 5/24/11

Building Photographs

	For Insurance Company Use:		
Building Street Address (including A #15 North Union Avenue	Policy Number		
City	State	ZIP Code	Company NAIC Number
Margate	New Jersey	08402	

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two 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." If submitting more photographs than will fit on this page, use the Continuation Page on the reverse.





Front View – Date of Photograph: (See Photo Stamp)

Rear View – Date of Photograph: (See Photo Stamp)





Right Side View – Date of Photograph: (See Photo Stamp)

Left Side View – Date of Photograph: (See Photo Stamp)