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

OMB No. 1660-0008 Expiration Date: November 30, 2022

ELEVATION CERTIFICATE Important: Follow the instructions on pages 1–9.

Copy all pages of this Elevation Certificate and all attachments for (1) com

Ad Dildi	SECTION A - PROPER	RTY INFO	RMATION	21.21	FOR	INSURANCE COMPANY USE
A1. Building Owner's Nar DAVCO CONSTRUCTION	I, INC.				Polic	cy Number:
A2. Building Street Addre Box No. 13 N. THURLOW AVENUI		Suite, and	or Bldg. No.)	or P.O. Route ar	Com	pany NAIC Number:
City MARGATE		:	State New Je		ZIP (0840	
A3. Property Description (LOT 1.02, BLOCK 220	Lot and Block Numbers,	Tax Parc	el Number, L	egal Description,	etc.)	
A4. Building Use (e.g., Re	sidential, Non-Residenti	al, Additio	n, Accessory	, etc.) RESIDE	NTIAL	
A5. Latitude/Longitude: L			-74.51063			NAD 1927 × NAD 1983
A6. Attach at least 2 photo	ographs of the building if	the Certif	cate is being	used to obtain flo	ood insurance	10 1027 X 10AD 1903
A7. Building Diagram Num						
A8. For a building with a c	rawlspace or enclosure(s	s):				
a) Square footage of	crawlspace or enclosure	(s)		1404.00 sq ft		
b) Number of permane	ent flood openings in the	The second secon			ot above adiac	ent grade 8
c) Total net area of flo	od openings in A8.b		1640.00 sq i	n		on grade o
	penings? X Yes					
A9. For a building with an a						
a) Square footage of a	and Industrial?		N1/A			
	111		N/A sq f			
	nt flood openings in the	attached (garage within	1.0 foot above ac	djacent grade I	N/A
c) Total net area of floo	· · · · · · · · · · · · · · · · · · ·		N/A so	in		
d) Engineered flood op	enings? Yes X	No				
	SECTION B - FLOOD	INSURA	NCE RATE	MAP (FIRM) IN	FORMATION	21-118
B1. NFIP Community Name CITY OF MARGATE 34530	& Community Number		B2. County ATLANTIC	Name		B3. State New Jersey
B4. Map/Panel B5. Suf Number B5. Suf	fix B6. FIRM Index Date 08-28-2018	Effe	RM Panel ective/ vised Date 2018	B8. Flood Zone(s)	B9. Base Flo (Zone A)	Dood Elevation(s) O, use Base Flood Depth)
5400100454						
B10. Indicate the source of	the Base Flood Elevation M Community Dete		ata or base flo		d in Item B9:	
B10. Indicate the source of	M Community Dete	rmined [Other/Sou		d in Item B9: Other/Sou	ırce:
B10. Indicate the source of ☐ FIS Profile ☒ FIR	M Community Dete	rmined [Other/Sou	rce:	Other/Sou	

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In those spaces, copy, the corresponding information from Section A. FOR INSURANCE COMPANY USE Equition, Street Address (including Apt. Unit, Suite, and/or Bildg, No.) or P.O. Route and Box No. 13 N. THURLOW AVENUE				***		
Thurst Cowards (Finished Company NAIC Number (Nargare New Jersey (19402)) SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) C1. Building elevations are based on:	IMPORTANT: In these spaces, copy the correspon	FOR I	NSURANCE COMPANY USE			
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) C1. Building elevations are based on:		nd/or Bldg. No.) or P	P.O. Route	and Box No.	Policy	Number:
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) C1. Building elevatons are based on.					Comp	any NAIC Number
C1. Building elevations are based on:	MARGATE	New Jersey	08402			
*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/AH, AR/AO. Complete Rems C2 = A1–Below according to the building diagram specified in Item A7. In Puerto Ricco only, enter meters Benchmark Utilized: LOCAL BENCH Vertical Datum, NAVD 1988 Indicate elevation datum used for the elevations in Items a) through h) below. MOVD 1929 XMAVD 1988 Other/Source	SECTION C - BUILDING	ELEVATION INF	ORMATIC	ON (SURVEY RE	EQUIRI	ED)
Complete Items C2 a-h below according to the building diagram specified in Item A7. In Puerto Ricco only, enter meters Benchmark Utilized: LOCAL BENCH		_		0	ıction*	
Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 X NAVD 1988 Other/Source:	Complete Items C2.a-h below according to the					
Datum used for building elevations must be the same as that used for the BFE. Check the measurement used. a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 7.8	Benchmark Utilized: LOCAL BENCH	Vertical	Datum: N	AVD 1988		
Datum used for building elevations must be the same as that used for the BFE. Check the measurement used. a) Top of bottom floor (including basement, crawlspace, or enclosure floor) b) Top of the next higher floor c) Bottom of the lowest horizontal structural member (V Zones only) Atlached garage (top of slab) Atlached garage (top of slab) c) 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 structural support SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION Lowest adjacent on this Certificate represents my best efforts to interpret the data available. Lunderstand 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 HOWARD A. TRANSUE GS33451 Title PROFESSIONAL LAND SURVEYOR Company Name SCHAEFFER NASSAR SCHEIDEGG. CE, LLC Address 14.25 CANTILLON BOULEVARD City MAYS LANDING State Date Telephone City MAYS LANDING State State Date Telephone City MAYS LANDING Date Telephone Company Name SCHAEFFER NASSAR SCHEIDEGG. CE, LLC 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) ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOD VENTS. MODEL 816CS RATED AT 205 SQ. IN EACH.	Indicate elevation datum used for the elevations	s in items a) through	h) below.			
Check the measurement used. a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 7.8						
a) Top of bottom floor (including basement, crawlspace, or enclosure floor) b) Top of the next higher floor c) Bottom of the lowest horizontal structural member (V Zones only) d) Attached garage (top of slab) 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 (finished) grade next to building (HAG) h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION Lowest adjacent grade at lowest elevation of deck or stairs, including structural support SECTION D - 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 impressomment under 18 U.S. Code, Section 1001. Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No Check here if attachments. Certifier's Name HOWARD A TRANSUE GS33451 Title PROFESSIONAL LAND SURVEYOR Company Name SCHAEFFER NASSAR SCHEIDEGG, CE, LLC Address 1425 CANTILLON BOULEVARD City MAYS LANDING Date Date Telephone O1-25-2022 (609) 625-7400 Company Name SCHAEFFER NASSAR SCHEIDEGG SCE, LLC Address 1425 CANTILLON BOULEVARD City Mays LANDING Date Telephone O1-25-2022 (609) 625-7400 Company Name SCHAEFFER NASSAR SCHEIDEGG SCE, LLC 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) ITEM A26 ALL MECHANICALS ARE AT FINISH FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH.	Datum used for building elevations must be the	same as that used	for the BF	E.	Ch	eck the measurement used
b) Top of the next higher floor c) Bottom of the lowest horizontal structural member (V Zones only) d) Attached garage (top of slab) 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 structural support SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to 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? Vere latitude and longitude in Section A provided by a licensed land surveyor? Certifier's Name License Number HOWARD A. TRANSUE GS33451 Certifiers Names SCHAEFFER NASSAR SCHEIDEGG, CE, LLC Address 1425 CANTILLON BOULEVARD City MAYS LANDING Date Otage Telephone Ext. G693625-7400 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) ITEM A62 VALTS ARE CRAVIL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH.	a) Top of bottom floor (including basement, cra	wispace or enclosu	ire floor)			
c) Bottom of the lowest horizontal structural member (V Zones only) d) Attached garage (top of slab) 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 (finished) grade next to building (HAG) h) Lowest adjacent (finished) grade next to building (HAG) f) Lowest adjacent (finished) grade next to building (HAG) h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION ZI-118 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? Very latitude and longitude in Section A provided by a licensed land surveyor? Fittle PROFESSIONAL LAND SURVEYOR Company Name SCHAEFFER NASSAR SCHEIDEGG, CE, LLC Address 1425 CANTILLON BOULEVARD City State Date 128		avviopado, or oriologo	10 110017			
d) Attached garage (top of slab) 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 structural support SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION Locitify that the information on this Certificate represents my best efforts to interpret the data available. Lunderstand 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? Were latitude and longitude in Section A provided by a licensed land surveyor? Title PROFESSIONAL LAND SURVEYOR Company Name SCHAEFFER NASSAR SCHEIDEGG, CE, LLC Address 1425 CANTILLON BOULEVARD City MAYS LANDING State Date Telephone 101-25-2022 Telephone 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 and location, per C2(e), if applicable) ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH. ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOR ELEVATION OR HIGHER.		. 0.7				
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 (finished) grade next to building (HAG) h) Lowest adjacent (finished) grade next to building (HAG) h) Lowest adjacent (finished) grade next to building (HAG) h) Lowest adjacent (finished) grade next to building (HAG) h) Lowest adjacent (finished) grade next to building (HAG) h) Lowest adjacent (finished) grade next to building (HAG) h) Lowest adjacent (finished) grade next to building (HAG) h) Lowest adjacent (finished) grade next to building (HAG) h) Lowest adjacent (finished) grade next to building (HAG) 7.6		ember (V Zones only	y) _			
(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 (finished) grade next to building (HAG) h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION I 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? Yes No Check here if attachments. Certifier's Name HOWARD A TRANSUE GS33451 Title PROFESSIONAL LAND SURVEYOR Company Name SCHAEFFER NASSAR SCHEIDEGG, CE, LLC Address 1425 CANTILLON BOULEVARD City MAYS LANDING State O1-25-2022 Signature Date 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 and location, per C2(e), if applicable) ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH. ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOR ELEVATION OR HIGHER			-		N/A	reet meters
g) Highest adjacent (finished) grade next to building (HAG) h) Lowest adjacent grade at lowest elevation of deck or stairs, including SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION I 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? Were latitude and longitude in Section A provided by a licensed land surveyor? Certifier's Name HOWARD A. TRANSUE GS33451 Title PROFESSIONAL LAND SURVEYOR Company Name SCHAEFFER NASSAR SCHEIDEGG, CE, LLC Address 1425 CANTILLON BOULEVARD City MAYS LANDING State Date One Da	 e) Lowest elevation of machinery or equipmen (Describe type of equipment and location in 	t servicing the buildi Comments)	ng -		17.1	
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION ZI—II 8 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? Yes No Check here if attachments. Certifier's Name HOWARD A. TRANSUE GS33451 Title PROFESSIONAL LAND SURVEYOR Company Name SCHAEFFER NASSAR SCHEIDEGG, CE, LLC Address 1425 CANTILLON BOULEVARD City MAYS LANDING State Date 01-25-2022 Signature Date 01-25-2022 Telephone (609) 625-7400 Comments (including type of equipment and location, per C2(e), if applicable) ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH. ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOR ELEVATION OR HIGHER.	f) Lowest adjacent (finished) grade next to bui	lding (LAG)			7.6	
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION 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? Were latitude and longitude in Section A provided by a licensed land surveyor? Certifier's Name HOWARD A. TRANSUE Company Name SCHAEFFER NASSAR SCHEIDEGG, CE, LLC Address 1425 CANTILLON BOULEVARD City MAYS LANDING State O1-25-2022 Signature Date O1-25-2022 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) ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH. ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOR ELEVATION OR HIGHER.	g) Highest adjacent (finished) grade next to bu	ilding (HAG)	_		7.7	
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION ZI–IIB 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? Yes No Check here if attachments. Certifier's Name HOWARD A. TRANSUE Company Name SCHAEFFER NASSAR SCHEIDEGG, CE, LLC Address 1425 CANTILLON BOULEVARD City MAYS LANDING State Date 01-25-2022 Signature Date 01-25-2022 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) ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH. ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOR ELEVATION OR HIGHER.		f deck or stairs, inclu	uding		7.5	
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? Were latitude and longitude in Section A provided by a licensed land surveyor? Certifier's Name HOWARD A. TRANSUE Company Name SCHAEFFER NASSAR SCHEIDEGG, CE, LLC Address 1425 CANTILLON BOULEVARD City MAYS LANDING State Date O1-25-2022 Telephone (609) 625-7400 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) ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH. ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOR ELEVATION OR HIGHER.		OR ENGINEER (OR ARCH	IITECT CERTIEI	CATIO	N 21-110
Certifier's Name. HOWARD A. TRANSUE Title PROFESSIONAL LAND SURVEYOR Company Name SCHAEFFER NASSAR SCHEIDEGG, CE, LLC Address 1425 CANTILLON BOULEVARD City MAYS LANDING State O1-25-2022 Signature Date O1-25-2022 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) ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH. ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOR ELEVATION OR HIGHER.	This certification is to be signed and sealed by a lan	d surveyor, enginee	r, or archit	tect authorized by	law to	certify elevation information
HOWARD A. TRANSUE GS33451 Title PROFESSIONAL LAND SURVEYOR Company Name SCHAEFFER NASSAR SCHEIDEGG, CE, LLC Address 1425 CANTILLON BOULEVARD City MAYS LANDING Signature Date 01-25-2022 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) ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH. ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOR ELEVATION OR HIGHER.				⊠ Yes □ No	×	Check here if attachments.
Company Name SCHAEFFER NASSAR SCHEIDEGG, CE, LLC Address 1425 CANTILLON BOULEVARD City MAYS LANDING State New Jersey Date 01-25-2022 (609) 625-7400 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) ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH. ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOR ELEVATION OR HIGHER.			ber			
Company Name SCHAEFFER NASSAR SCHEIDEGG, CE, LLC Address 1425 CANTILLON BOULEVARD City MAYS LANDING State New Jersey Date 01-25-2022 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) ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH. ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOR ELEVATION OR HIGHER.						6933541 Place
City State New Jersey 08330 Signature Date 01-25-2022 (609) 625-7400 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) ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH. ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOR ELEVATION OR HIGHER.						
MAYS LANDING New Jersey Date 01-25-2022 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) ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH. ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOR ELEVATION OR HIGHER.						Here
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) ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH. ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOR ELEVATION OR HIGHER.						1/25/2022
Comments (including type of equipment and location, per C2(e), if applicable) ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH. ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOR ELEVATION OR HIGHER.	Signature / / / / / /				Ext.	
ITEM A8c VENTS ARE CRAWL SPACE DOOR SYSTEM FLOOD VENTS, MODEL 816CS RATED AT 205 SQ. IN. EACH. ITEM C2e ALL MECHANICALS ARE AT FINISH FLOOR ELEVATION OR HIGHER.	Copy all pages of this Elevation Certificate and all attack	chments for (1) comm	nunity offic	cial, (2) insurance a	agent/co	ompany, and (3) building owner.
	ITEM A8c VENTS ARE CRAWL SPACE DOOR SYS ITEM C2e ALL MECHANICALS ARE AT FINISH FL	STEM FLOOD VENT	TS, MODE		AT 20	5 SQ. IN. EACH.

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the correspo	nding information f	rom Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, a 13 N. THURLOW AVENUE	and/or Bldg. No.) or F	P.O. Route and Box No.	Policy Number:
City MARGATE	State New Jersey	ZIP Code 08402	Company NAIC Number
SECTION E – BUILDING FOR ZO	ELEVATION INFOR	RMATION (SURVEY NO E A (WITHOUT BFE)	T REQUIRED)
For Zones AO and A (without BFE), complete Items complete Sections A, B,and C. For Items E1–E4, use enter meters.	e natural grade, if av	ailable. Check the measu	rement used. In Puerto Rico only,
E1. Provide elevation information for the following a the highest adjacent grade (HAG) and the lowera) Top of bottom floor (including basement,	st adjacent grade (LA	Nate boxes to show wheth AG).	ier the elevation is above or below
crawlspace, or enclosure) is b) Top of bottom floor (including basement,		feet met	
crawlspace, or enclosure) is E2. For Building Diagrams 6–9 with permanent floor	d openings provided	in Section A Items 8 and/	
the next higher floor (elevation C2.b in the diagrams) of the building is		feet met	
E3. Attached garage (top of slab) is		feet met	ers above or below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is	· · · · · · · · · · · · · · · · · · ·	feet _ met	rers above or below the HAG.
E5. Zone AO only: If no flood depth number is availa floodplain management ordinance? Yes			accordance with the community's st certify this information in Section G.
SECTION F - PROPERTY O	WNER (OR OWNER	'S REPRESENTATIVE)	CERTIFICATION 21-118
The property owner or owner's authorized represents community-issued BFE) or Zone AO must sign here.	ative who completes	Sections A B and F for 2	Zone A (without a FEMA-issued or
Property Owner or Owner's Authorized Representati			
Address	C	ity	State ZIP Code
Signature	D	ate	[elephone
Comments			
			Check here if attachments.

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corr	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, S 13 N. THURLOW AVENUE	p. Policy Number:		
City MARGATE	State New Jersey	ZIP Code 08402	Company NAIC Number
SECTIO	ON G - COMMUNITY I	NFORMATION (OPTION	AL) 21-118
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	rdinance to administer of Certificate. Complete	the community's floodplair	n management ordinance can complete
			ed and sealed by a licensed surveyor, ate the source and date of the elevation
G2. A community official completed Sect or Zone AO.	ion E for a building loca	ated in Zone A (without a l	FEMA-issued or community-issued BFE)
G3. The following information (Items G4-	-G10) is provided for co	ommunity floodplain mana	gement purposes.
G4. Permit Number	G5. Date Permit Issu	ued	G6. Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction	Substantial 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	the building site:		feet meters Datum
G10. Community's design flood elevation:			feet meters Datum
Local Official's Name	Colontino	Title	FA
Community Name MANGA	Colontino Pe	Telephone	FM 9-822-191x
Signature	/	Date	2/2/22
Comments (including type of equipment and loc	cation, per C2(e), if app	olicable)	/ /
,			Check here if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

OMB No. 1660-0008 Expiration Date: November 30, 2022

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.				
State	ZIP Code	Company NAIC Number		
New Jersey	08402			
	Suite, and/or Bldg. No.) or State	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

FRONT VIEW AND RIGHT SIDE VIEW Photo One Caption

21-118

Clear Photo One



Photo Two

Photo Two Caption FRONT VIEW AND LEFT SIDE VIEW Clear Photo Two

FEMA Form 086-0-33 (12/19)

Replaces all previous editions.

Form Page 5 of 6

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corresponding information from Section A.					FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.					Policy Number:
13 N. THURL	OW AVENUE				
City		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	State	ZIP Code	Company NAIC Number
MARGATE			New Jersey	08402	

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.

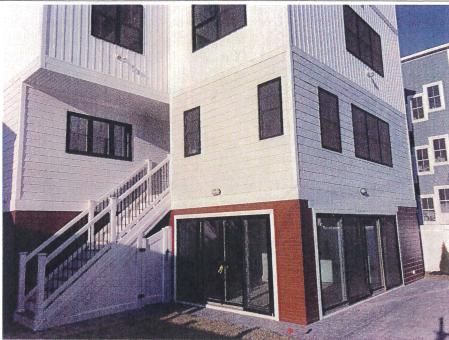


Photo Three

Photo Three Caption REAR VIEW

21-118

Clear Photo Three



Photo Four

Photo Four Caption CRAWL SPACE DOOR SYSTEMS FLOOD VENT MODEL 816CS TYPICAL OF 8

Clear Photo Four

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 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

21-118

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.

*)	Model	HxW	Ao	Ae
	Wilder	[in]	[in²]	[ft ²]
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)

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 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.

Certifying Design Professional		
Name WILLIAM S. SWIDERSKI, P.E.	Title ENGINEER	
Company SWIDERSKI ASSSOCIATES		
Address 599 SHORE ROAD SOMERS POINT, NJ		
License PROFESSIONAL ENGINEER	License No. 24GE02048200	
Signature:	Date:	
Identification of the Building and Installed Flo		

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

Building Address

13 N. THURLOW AVENUE, MARCATE, NJ 08402