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

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expires March 31, 2012

Important: Read the instructions on pages 1-9.

A1.		SEC	TION A - PRO	PERTY INFOR	MATION	For Insurance Company Use:	
	Building Owner's Name	F.0.4.11.0				Policy Number	
A2.	LANDMARK 24 HOMES O Building Street Address (including A		Bidg. No.) or P.0	O. Route and Box	: No.	Company NAIC Number	
_	615 WYNDHAM WAY	State		ZIP Code			
	POOLER	GA		31322	.		
A3.	Property Description (Lot and Block LOT 477, FOREST LAKES, PHAS	Numbers, Tax Parcel SE 2 (SUBDIVISION M	Number, Legal D AP BOOK 38-S,	Description, etc.) PAGES 67A & 6	7B); CHATHAM COU	NTY PARCEL ID: 5-1014C-06-007	
	Building Use (e.g., Residential, Nor		Accessory, etc.)	RESIDENTIAL			
	5. Latitude/Longitude: Lat. <u>32.1455</u> °N Long. <u>081,2727</u> °W Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983						
	6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. 7. Building Diagram Number *3						
	For a building with a crawlspace or			A9. For	a building with an atta	ched garage:	
a) Square footage of crawlspace or enclosure(s) <u>N/A</u> sq ft a) Square footage of attached garage *515 b) No. of permanent flood openings in the crawlspace or b) No. of permanent flood openings in the attached							
	enclosure(s) within 1.0 foot abo	ve adjacent grade	<u>o</u>	0)	within 1.0 foot above	d openings in the attached garage adjacent grade <u>*9</u>	
	c) Total net area of flood openings		Q sq in	c)	Total net area of flood	openings in A9.b *724 sq in	
	d) Engineered flood openings?	☐ Yes ⊠ No			Engineered flood ope		
		ECTION B - FLOOD			RM) INFORMATIO		
	NFIP Community Name & Communi CITY OF POOLER 13	0261	B2. County Na CHATHAN			B3. State GA	
B 4	. Map/Panel Number B5. Suffix			FIRM Panel	B8. Flood	B9. Base Flood Elevation(s) (Zone	
	13051C0019 F	Date 09/26/2008		e/Revised Date 9/26/2008	Zone(s) AE	AO, use base flood depth) *20' + 1' FREEBOARD	
10.	Indicate the source of the Base Floor	od Flevation (BFF) data	or base flood d	enth entered in It			
	☐ FIS Profile ☑ FIRM	☐ Community De		Other (Descr			
11.	Indicate elevation datum used for B	FE in Item B9: NG		NAVD 1988	Other (Describ	ie)	
	Is the building located in a Coastal I					□ Yes ⊠ No	
	Designation Date	•	CBRS	☐ OPA			
	SEC.	TION C - BUILDING	ELEVATION I	NFORMATION	(SURVEY REQUIR	RED)	
	Building elevations are based on:	☐ Construction D	rawings*	☐ BuildIng Un	der Construction*	☑ Finished Construction	
	A new Elevation Certificate will be re	equired when constructi	ion of the building	n ie complete			
	Flevations - Zones A1-A30 AF AH	A (with REE) VE V(1.)	/30 \/ (with BEE	Y IS COMPLETE.	AE AB/A1 A20 AB/A	H AB/AC Complete Home CO - h	
2. E	Elevations – Zones A1-A30, AE, AH, below according to the building diagr	A (with BFE), VE, V1-V am specified in Item A7	/30, V (with BFE), AR, AR/A, AR/	AE, AR/A1-A30, AR/A E.	H, AR/AO. Complete Items C2.a-h	
2. E	Elevations – Zones A1-A30, AE, AH, below according to the building diagr Benchmark Utilized <u>LOCAL</u>	am specified in Item A7	/30, V (with BFE), AR, AR/A, AR/	E.	H, AR/AO. Complete Items C2.a-h	
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Duilding C			information from Section	A. F	or Insurance Company Use
	treet Address (including Ap NDHAM WAY	t., Unit, Suite, and/or Bldg. No	o.) or P.O. Route and Box No.	F	Policy Number
City POOLEI	₹	State GA	ZIP Code 31322	C	Company NAIC Number
	SECTION	ND - SURVEYOR, ENGIN	EER, OR ARCHITECT CER	TIFICATION (CONTI	NUED)
Copy both	sides of this Elevation Cert	ificate for (1) community offic	ial, (2) insurance agent/compan	y, and (3) building owner	
SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION	A5: METHOD OF DETERM A7: BUILDING TYPE IS BA A9.a: THE SQUARE FOOT A9.b: THERE ARE 5 AIR V AUTOMATIC ENTRY INSTALLED IN THE A9.c: THE INFORMATION OF SQUARE FEET OF EB9: BASE FLOOD ELEVAT ADMINISTRATOR. THE B9: THE BASE FLOOD ELC2: THE ELEVATIONS AR C2: THE BENCH MARK US MONUMENT; ELEVAT TO THE NGVD 29 HE C2.a: THE ELEVATION IS	Y AND EXIT OF FLOODWAT GARAGE DOOR. PROVIDED IS BASED ON TENGINEERED FLOOD OPEINCLOSED BUILDING AREATION DETERMINED ACCORDING TO THE REFERENCED TO NAVD SED FOR THIS CERTIFICAT TION 17.62' (NGVD 29). THE GAT.	DUNDATION. PPROXIMATE. LL, THEY ARE DISABLED PER ERS. THERE ARE 4 FLOOD SO THE MANUFACTURER SPECIF NINGS (FEMA TB-1 AUGUST 2) DING TO THE PROCEDURE CO THE FLOOD INSURANCE STU 88. E IS SHOWN ON THE RECOR NAVD 88 HEIGHT IS COMPUT	DLUTIONS LLC FLOOD ICATIONS. THE ATTAC (2008) INDICATES THAT IF THE COMMUNITY FL MMUNITY FLOOD DAM DY FLOOD PROFILE IS DED SUBDIVISION PLA TED BY APPLYING THE G SPACE ABOVE THE	VENTS (MODEL 1509-F) HED STATE OF GEORGIA EACH VENT WILL COVEF OODPLAIN ORDINANCE AGE PREVENTION ORDIN 19.7' (NAVD 88). IT: BM-1, DISC IN CONCRI VERTCON SHIFT VALUE
SECTION	C2.b: THE ELEVATION IS	FOR THE TOP OF THE FIRE	ST FINISHED FLOOR OF HEAT TFORM FOR THE CONDENSI	ED LIVING SPACE	
Signature	1 /	1 /	Date		= 30 AV
ordi	TIONE DINOFIE	VATION INFORMATION	2/25/2013 (SURVEY NOT REQUIRED		Check here if attachmen
(ele)	building Diagrams 6-9 with [/ation C2.b in the diagrams]	permanent flood openings pro	ivided in Section A Items 8 and/	or 9 (see pages 8-9 of In	
E4. Top	ched garage (top of slab) is of platform of machinery an	d/or equipment servicing the		ove or ☐ below the HAC w the HAG. ☐ meters ☐ above o	G. r □ below the HAG.
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Building Photographs See Instructions for Item A6.

		For Insurance Company Use	
Building Street Address 615 WYNDHAI	Policy Number		
City	State	ZIP Code	Company NAIC Number
POOLER	GA	31322	

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.







LEFT SIDE VIEW

2/25/2013

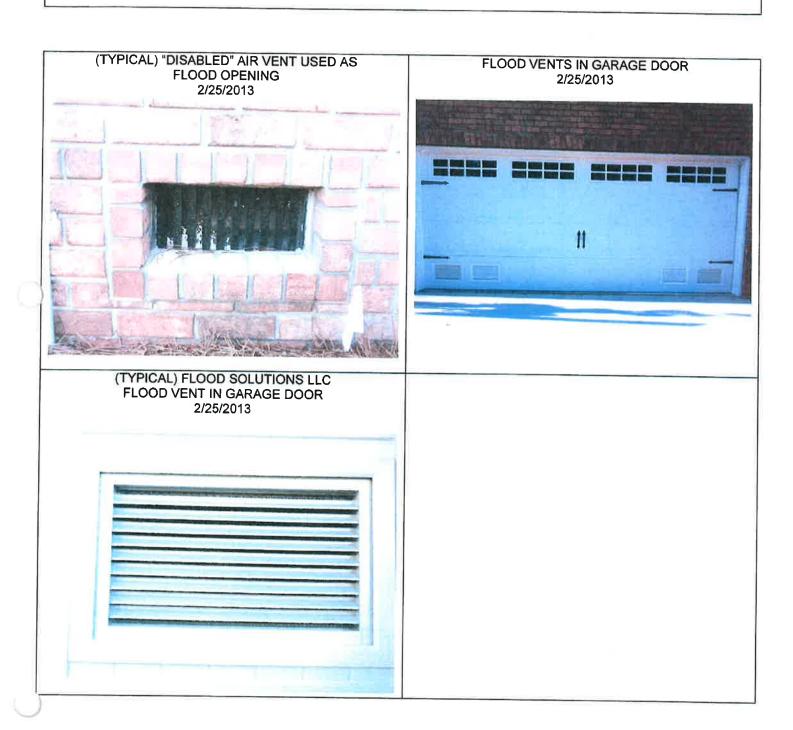


RIGHT SIDE VIEW

Building PhotographsContinuation Page

Building Street Addres	For Insurance Company Use: Policy Number			
City	State	ZIP Code	Company NAIC Number	
POOLER	GA	31322		

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."



CERTIFICATION OF ENGINEERED FLOOD OPENINGS (FEMA TB-1 August 2008)

I do hereby certify that the **FLOOD SOLUTIONS LLC** Flood Vent properly installed and sized in accordance with Federal Emergency Management Agency's (FEMA's) National Flood Program regulations 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.

l also do hereby certify that I calculated the Non Engineered Net Free Air and Engineered Opening size for each model and size of FLOOD SOLUTIONS LLC flood vents. The results of the calculations are recorded in the table below. The Engineered size opening calculation was performed using the formula in FEMA Technical Bulletin 1 – August 2008, Openings in Foundation Walls for Bulldings Located in Special Flood Hazard Areas in accordance with the National Flood Insurance Program (NFIP) and ASCE/SEI 24-05, Flood Resistance Design and Construction.

I measured the Non Engineered Net Free Air by calculating the minimum distance between the top blade and the top of the vent times the clear opening width of the vent; plus the minimum distance between the bottom blade and the bottom of the vent the clear opening width of the vent; plus the minimum distance between each blade times the number of spaces between the blades in vent times the clear opening width of the vent.

I used the formula in TB 1 – August 2008 (A° = 0.033 [1/C] RAê) to determine the Engineered Opening size for each model listed below. I used the following assumptions: A° = total net area of openings required (in²); 0.033 = coefficient corresponding to a factor of safety of 5.0 (in² hr/ft²); c = 0.40 opening coefficient (ASCE 24 Table 2-3 "rectangular, long axis horizontal, short axis vertical unobstructed during design flood") or C = 0.35 (square unobstructed during design flood); R = 5 ft/hr worst case rate of rise and fall; and Aê = 1 ft² total enclosed area.

Note: When the horizontal dimension is twice or more the vertical dimension, use 0.4; as the dimensions approach a square, interpolate from 0,4 to 0.35.

 A^{0} / $A\hat{e}$ = 0.033 [1/C] R = 0.033 [1/0.40 for rectangle, long axis horizontal] R = 0.4125 in² per ft² or A^{0} / $A\hat{e}$ = 0.033 [1/C] R = 0.033 [1 / 0.35 for square] R = .4719 in² per ft²

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 grade; 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 rate of rise and fall of 5ft/hr; where data or analysis indicated more rapid rates of rise and fall, the total net area of the required openings shall be increased to account for the higher rates of rise and fall.

MODEL Number Flood Solutions:	SIZE of WALL OPENING: (WIDTH X HEIGHT)	Net Free Air (square inches):	ENGINEERED OPENING (square inches) Each vent covers: (square ft.)	
1412-F	14-1/2" x 12"	67	145	
1509-F	16"x 9-1/4"	55	131	
1608-F	16" x 8"	51	124	
1608-D	16" x 8"	51	124	
1608-C	16" x 8"	65	158	
1616-F	16" x 16"	104	221	
1616-D	16" x 16"	102	216	
2412-F	24" x 12"	113	274	
2412-D	24" x 12"	110	267	
2416-F	24" x 16"	156	362	
2416-D	24" x 16"	154	357	
3208-F	32" x 8"	104	252	
3208-D	32" x 8"	104	252	

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NAME: DANIELG, FARABAUGH

TYPE OF LICENSE: PROFESSIONAL ENGINEER

STATE: GEORGIA LICENSE NUMBER: 19406

DAN FARABAUGH, P.E. FARABAUGH ENGINEERING AND TESTING, INC. 401 WIDE DR., McKEESPORT, PA 15135

