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.

\		SEC	TION A - PRO	PERTY IN	FORMA	TION	For Insuran	ce Company Use:
A1. Building Owner's Name LANDMARK 24 HOMES						Policy Num	ber	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 121 TAHOE DRIVE						Company N	IAIC Number	
City POOLER	Sta GA			ZIP 313	Code			
A3. Property Description (Lot and Block Nur	nbers, Tax Parcel I	Number, Legal I	Description.	etc.)			
LÓT 275, FOREST Ì								
A4. Building Use (e.g., Reads). A5. Latitude/Longitude: La			Accessory, etc.)	RESIDENT	<u>IAL</u>	Horizontal Datum	CI NAD	4007 M NAD 4000
A6. Attach at least 2 photo			te is being used	to obtain flo	od insura		n: NAD	1927 🛛 NAD 1983
A7. Building Diagram Num			to to bomig acco	to obtain no	ou moure			
A8. For a building with a c	rawispace or enci	osure(s):		A9.	For a bu	ilding with an atta	ched darage:	
a) Square footage of			N/A sq ft	,		re footage of atta		<u>*497</u> sq ft
	b) No. of permanent flood openings in the crawlspace or b) No. of permanent flood openings in the attached garage							
enclosure(s) within c) Total net area of fi			0 0 sq in			n 1.0 foot above a I net area of flood		<u>*5</u> 9.b <u>*600</u> sq in
d) Engineered flood of		Yes 🛭 No	<u>o</u>			neered flood ope		9.b <u>*600</u> sqin Yes ⊠ No
	SECT	ION B - FLOOD	INSURANCE	RATE MA	P (FIRM)	INFORMATIO	N	
B1. NFIP Community Name			B2. County Na	me			B3. State	
CITY OF POOLE	R 13026	1	CHATHAI	М			GA	
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index	= · ·	FIRM Pane		B8. Flood		Flood Elevation(s) (Zone
13051C0019	F	Date 09/26/2008		/e/Revised E 9/26/2008	ate	Zone(s) AE	AO, us	se base flood depth) + 1' FREEBOARD
B10. Indicate the source of	the Base Flood E	levation (BFE) data	or base flood d	epth entered	in Item E	39.		
☐ FIS Profile		☐ Community Det		Other (I				
311. Indicate elevation datu	ım used for BFE i	n Item B9: 🔲 NG\	/D 1929	☑ NAVD 1	988 [Other (Describ) (B)	
B12. Is the building located	in a Coastal Barri	er Resources Syste		or Otherwis			P	es 🛛 No
Designation Date	_		☐ CBRS	☐ OF	PA			
	SECTIO	V.C. BILLI DING	EL EVATION I	NEODMAT	TION (SI	IBVEY BEOLUS	JED)	
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)								
C1. Building elevations are *A new Elevation Certification		Construction Dr				Construction*	⊠ Finished	d Construction
C2. Elevations – Zones A1-	A30, AE, AH. A (v	with BFE), VE. V1-V	/30, V (with BFE), AR, AR/A	. AR/AE	AR/A1-A30. AR/A	H. AR/AO Co	mplete Items C2 a-h
below according to the I	building diagram s	specified in Item A7	Use the same	datum as th	ne BFE.		, , , , , , , , , , , , , , , , , , ,	
Benchmark Utilized LO				Vertical I	Datum <u>N</u>	AVD 88		
Conversion/Comments	N/A				C	neck the measure	mont used	
a) Top of bottom floor	· /including become			\ +0. 4 0				
a) Top of bottom floorb) Top of the next high		ierit, crawispace, of	enciosure 11001			meters (Pue	• • • • • • • • • • • • • • • • • • • •	
c) Bottom of the lowe		tural member // 7a	nes only)	<u>*22</u> . <u>0</u> N/A		meters (Pue meters (Pue	• •	
d) Attached garage (t		waa mombel (v 20	nico Only)	21.3	- ==	meters (Pue		
e) Lowest elevation o		uipment servicina ti	he buildina	<u>*21.0</u>		meters (Pue		
(Describe type of e				'- <u></u>			Thou only)	
f) Lowest adjacent (fi				<u> 20.9</u>	✓ feet	meters (Pue	rto Rico only)	
g) Highest adjacent (f	, •	• • •	,	<u>21.4</u>		meters (Pue		
h) Lowest adjacent gr structural support	ade at lowest ele	vation of deck or sta	airs, including	<u>N/A</u>	feet	meters (Pue	rto Rico only)	
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.								
☑Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a								
			licensed land s	•	Yes	□ No	/v	EGISTERA TERA
Certifier's Name				License No			- H	La hall
Joseph A. Hale, Jr. Title		Company Name		GA RLS#	2886		——(液	NO. 2886
Registered Land Surveyor		Kern-Coleman &	Co., LLC				4	2.21.13
Address 6 Mail Court		City		State		ZIP Code	12	SURVETOR ST
6 Mall Court Signature	10	Savannah Date	9	GA Telepho	one	31406	_ \	A. HALE
- lac -	hali.	2/21/2		912-354-				A. H

IMPORTANT: In Building Street Addre	ess (including Apt., Unit, Suite, and/or Bldg	No.) or P.O. Route and Boy No.		or Insurance Company U
121 TAHOE DRIV	E	10000000		Policy Number
City POOLER	State GA	ZIP Code 31322		Company NAIC Number
	SECTION D - SURVEYOR, EN	GINEER, OR ARCHITECT CERT	FICATION (CONTI	NUED)
Copy both sides of the	nis Elevation Certificate for (1) community	official, (2) insurance agent/company,	and (3) building owner	
SECTION A7: BUILD SECTION A9.a: THE SECTION A9.b: THE SECTION A9.c: THE ENC ENC SECTION B9: BASE ADMINI: SECTION B9: THE E SECTION C2: THE E SHOV SECTION C2.a: THE SECTION C2.b: THE SECTION C2.c: THE THE SUBDIVISION I	HOD OF DETERMINATION BY USE OF HOUNG TYPE IS BACK-FILLED STEM WALE SQUARE FOOTAGE OF THE GARAGE FOR AREA OF THE FLOOD OPENINGS (FEMA TO CLOSED BUILDING AREA. FLOOD ELEVATION DETERMINED ACC STRATOR. THE 1'(ONE FOOT) FREEBO BASE FLOOD ELEVATION ACCORDING BENCH MARK USED FOR THIS CERTIFINA ARE REFERENCED TO NAVD 88. E ELEVATION IS FOR THE TOP OF THE PLAT REQUIRED MINIMUM FINISHED F	L FOUNDATION. NO CRAWLSPACE. IS APPROXIMATE. IS APPROXIMATE. DOD VENTS (MODEL 1509-F) INSTALENINGS IS APPROXIMATE. THE ATT B-1 AUGUST 2008) INDICATES THAT CORDING TO THE PROCEDURE OF ARD IS A PROVISION OF THE COMMODITY TO THE FLOOD INSURANCE STUDY CATE WAS ESTABLISHED USING "EGARAGE FLOOR. THERE IS LIVING FIRST FINISHED FLOOR OF HEATE! PLATFORM FOR THE CONDENSING LOOR ELEVATION IS 22.7" (NGVD 28	ACHED STATE OF G FACH VENT WILL O THE COMMUNITY FL MUNITY FLOOD DAM FLOOD PROFILE IS GPS" GPS BASE STA SPACE ABOVE THE D LIVING SPACE	EORGIA CERTIFICATION COVER 131 SQUARE FEE COODPLAIN ORDINANCE AGE PREVENTION ORD 18.7' (NAVD 88). ATION NETWORK, ELEVA GARAGE.
Signature	a hale of	Date 2/21/2013		
SECTION E - E	BUILDING ELEVATION INFORMATION	ON (SURVEY NOT REQUIRED) F	OR ZONE AO AND	Check here if attachme
E2. For Bullding Dir (elevation C2.b E3. Attached garag E4. Top of platform	agrams 6-9 with permanent flood openings in the diagrams) of the building is le (top of slab) is le for machinery and/or equipment servicing	or enclosure) is	t ☐ meters ☐ abov 9 (see pages 8-9 of in or ☐ below the HAG he HAG.] meters ☐ above o	structions), the next highe . Delow the HAG
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Building Photographs

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.

121 TAHOE DRIVE

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.





REAR VIEW 2/21/2013



LEFT SIDE VIEW 2/21/2013



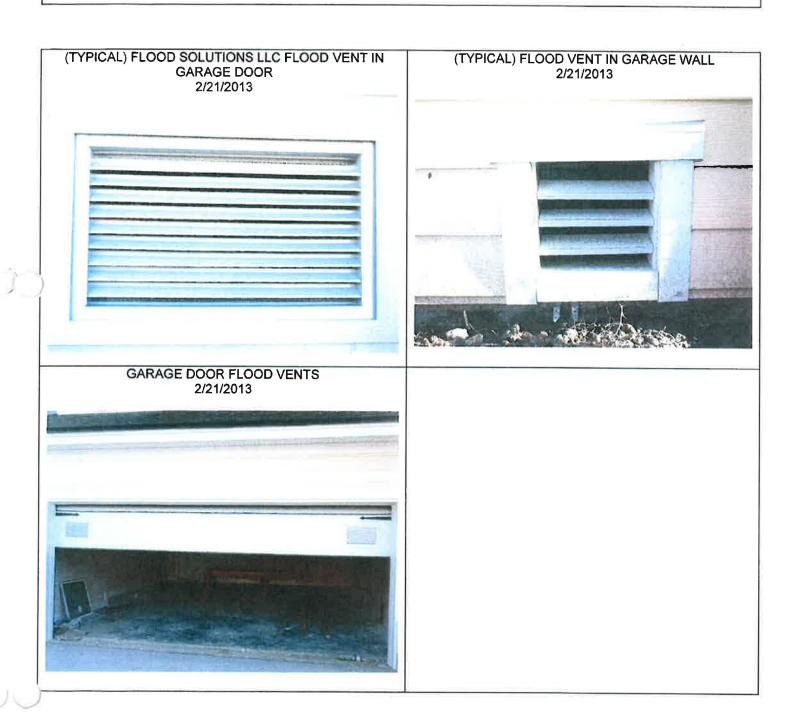
RIGHT SIDE VIEW 2/21/2013



Building PhotographsContinuation Page

Policy Number	
NAIC Number	
/1	

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.

I 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 Buildings 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/ft³); 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^{o} / $A\hat{e}$ = 0.033 [1/C] R = 0.033 [1/0.40 for rectangle, long axis horizontal] R = 0.4125 in² per ft² or A^{o} / $A\hat{e}$ = 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

No. 19406

ROFESSION

SIGNATURE:	_
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NAME: __DANIEL G. 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