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

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expires February 28, 2009

Important: Read the instructions on pages 1-8.

RES2006-01653

SECTION A - PROPERTY INFORMATION

For Insurance Company Use:
Policy Number
Company NAIC Number

A1. Building Owner's Name: Josh & Beth Ann Tuyls

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
290 Dundee Road

City: Fort Myers Beach State: Fl ZIP Code 33931

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 12, Block L, McPhie Park Unit 3

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential

A5. Latitude/Longitude: Lat. 26°25'48.2"N. Long. 081°54'33.6"W. Horizontal Datum: ☐NAD 1927 ☒NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number 6

A8. For a building with a crawl space or enclosure(s), provide:
a) Square footage of crawl space or enclosure(s) N/A sq ft
b) No. of permanent flood openings in the crawl space or enclosure(s) walls within 1.0 foot above adjacent grade N/A
c) Total net area of flood openings in A8.b N/A sq in

A9. For a building with an attached garage, provide:
a) Square footage of attached garage 1568 sq ft
b) No. of permanent flood openings in the attached garage walls within 1.0 foot above adjacent grade 9
c) Total net area of flood openings in A9.b 1800 sq in

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name	B3. State
Fort Myers Beach 120673	Lee	Florida

B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
125124-0441	B	5-5-03	09-19-1984	AE	12

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 (Describe) _____

B11. Indicate elevation datum used for BFE in Item B9: ☒NGVD 1929 ☐NAVD 1988 ☐Other (Describe) _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐Yes ☒No
Designation Date _____ ☐CBRS ☐OPA

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐Construction Drawings* ☐Building Under Construction* ☒Finished Construction
*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 Items C2.a-g below according to the building diagram specified in Item A7.

Benchmark Utilized: USGS Benchmark: H 245 1965 Vertical Datum: NGVD 1929

Conversion/Comments _____

			Check the measurement used.
a)	Top of bottom floor (including basement, crawl space, or enclosure floor)	16.1	☒ feet ☐ meters (Puerto Rico only)
b)	Top of the next higher floor	27.4	☒ feet ☐ meters (Puerto Rico only)
c)	Bottom of the lowest horizontal structural member (V Zones only)	N/A	☐ feet ☐ meters (Puerto Rico only)
d)	Attached garage (top of slab)	5.2	☒ feet ☐ meters (Puerto Rico only)
e)	Lowest elevation of machinery or equipment servicing the building (Describe type of equipment in Comments)	16.1	☒ feet ☐ meters (Puerto Rico only)
f)	Lowest adjacent (finished) grade (LAG)	4.6	☒ feet ☐ meters (Puerto Rico only)
g)	Highest adjacent (finished) grade (HAG)	4.9	☒ feet ☐ meters (Puerto 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.

Certifier's Name		License Number	
A. Lee Hayne		LS 6338	
Title	Company Name		
Professional Surveyor & Mapper	Banks Engineering		
Address	City	State	ZIP Code
11543 Charlies Terrace	Fort Myers	Florida	33907
Signature	Date	Telephone	
a. Lee Hayne	04-01-2008	(239) 694-2335	

a. Lee Hayne
04-01-2008 LB 6338

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. 290 Dundee Road			Policy Number
City Fort Myers Beach	State Florida	ZIP Code 33931	Company NAIC Number

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments A9.a) calculations are from hydrostatic flood vent certification prepared by Libel & Barrow Engineering, Inc., dated: 4/1/08 and Lee County Building inspector and are provided by the client.

C2.e) is an air conditioning pad; pool heater pad elevation = 5.57 feet

Signature a. [signature] Date 04-01-2008 ☐ Check here if attachments

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, crawl space, or enclosure) is _____.__ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
b) Top of bottom floor (including basement, crawl space, or enclosure) is _____.__ ☐ feet ☐ meters ☐ above or ☐ below the LAG.

E2. For Building Diagrams 6-8 with permanent flood openings provided in Section A Items 8 and/or 9 (see page 8 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____.__ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E3. Attached garage (top of slab) is _____.__ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is _____.__ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

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 OWNER (OR OWNER'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's or Owner's Authorized Representative's Name

Address | City | State | ZIP Code

Signature | Date | Telephone

Comments

☐ Check here if attachments

SECTION G - COMMUNITY INFORMATION (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. and G9.

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 E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4.-G9.) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: _____.__ ☐ feet ☐ meters (PR) Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____.__ ☐ feet ☐ meters (PR) Datum _____

Local Official's Name | Title

Community Name | Telephone

Signature | Date

Comments

☐ Check here if attachments

RES. 2006-01653

Flood Insurance Implication

If a below-BFE attached garage does not have proper openings, the Elevation Certificate prepared for the building must identify the elevation of the garage floor slab as the lowest floor (reference level) of the building. This may result in flood insurance premiums significantly higher than those that would have applied if the garage had proper openings.

Guidance for Engineered Openings

In situations where it is not feasible or desirable to meet the openings criteria stated previously, a design professional (registered engineer or architect) may design and certify openings. This section provides guidance for such engineered designs. For openings not meeting all four requirements for non-engineered openings listed on pages 2 and 3, certification by a registered professional engineer or architect is required. Such certification must be submitted to, and kept on file by, the community. These certifications must assure community officials that the openings are designed in accordance with accepted standards of practice. A certification may be affixed to the design drawings or submitted separately. It must include appropriate certification language, and the name, title, address, signature, type of license, license number, and professional seal of the certifier. Figure 4 is an example of an acceptable certification.

GEHL 290 Dunbee Rd, FMB, FL.
Project Name

I, Jeff Ballard do hereby certify that the opening(s) designed for installation in the aforementioned building will allow for the automatic equalizing of hydrostatic flood forces on exterior walls by allowing for the automatic entry and exit of floodwater during floods up to and including the base (100-year) flood.

Signature — 4/1/08 Date

Engineer
Title

E Florida P.E. — 56862
Type of Licence — Licence Number

10970 S. Cleveland Ave #105
Fort Myers FL
Address

4/1/08
PROFESSIONAL SEAL

Figure 4. Example of Openings Certificate

LIEBL & BARROW ENGINEERING, INC.
10970 South Cleveland Ave. #105
Fort Myers, FL 33907
Phone: (239) 936-7557
Fax: (239) 936-6817

CA No. 0000 8053

Calculation of Flood Forces

Floodwaters can impose both hydrostatic and hydrodynamic forces on floodprone buildings. Hydrostatic pressure is the force that water at rest exerts on any submerged object, including a floodprone building. Hydrostatic pressure is capable of collapsing, moving, and severely damaging most types of buildings. In many floods, hydrostatic pressure is the most prevalent cause of damage. Hydrodynamic pressure is the force exerted on a vertical obstruction (foundation wall) by flowing water and debris.