

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

OMB No. 1660-0008
 Expiration Date: July 31, 2015

SECTION A - PROPERTY INFORMATION

| | | |
|--|-----------------|--|
| A1. Building Owner's Name Bruce D. Neustadt | | FOR INSURANCE COMPANY USE |
| | | Policy Number: |
| A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 381 Regatta Street | | Company NAIC Number: |
| City Marco Island | State FL | ZIP Code 34145 |
| A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 8, Block 289, Marco Beach Unit 8, as recorded in PB 6, Pg(s) 63-68, Collier County, Florida | | |
| A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u> | | |
| A5. Latitude/Longitude: Lat. <u>N25°55'44.6"</u> Long. <u>W81°42'36.9"</u> | | Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> 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 <u>1B</u> | | |
| A8. For a building with a crawlspace or enclosure(s): | | A9. For a building with an attached garage: |
| a) Square footage of crawlspace or enclosure(s) <u>0</u> sq ft | | a) Square footage of attached garage <u>572</u> sq ft |
| b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>0</u> | | b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>4</u> |
| c) Total net area of flood openings in A8.b <u>0</u> sq in | | c) Total net area of flood openings in A9.b <u>655</u> sq in |
| d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

| | | | | | |
|---|------------------------|---|---|--------------------------------|---|
| B1. NFIP Community Name & Community Number CITY OF MARCO ISLAND 120426 | | B2. County Name COLLIER | | B3. State FLORIDA | |
| B4. Map/Panel Number 12021C0837 | B5. Suffix H | B6. FIRM Index Date 5/16/2012 | B7. FIRM Panel Effective/Revised Date 5/16/2012 | B8. Flood Zone(s) AE | B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 8 |
| B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. <input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____ | | | | | |
| B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____ | | | | | |
| B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> 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-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.
 Benchmark Utilized: AC 3388 Vertical Datum: NAVD88

Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 NAVD 1988 Other/Source: _____
 Datum used for building elevations must be the same as that used for the BFE.

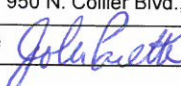
Check the measurement used.

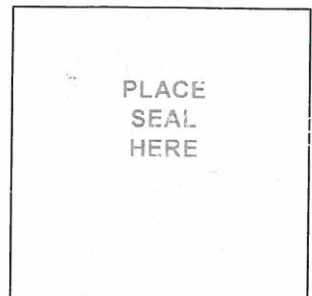
| | | |
|--|------------|--|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor) | <u>8.9</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| b) Top of the next higher floor | <u>N.A</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) | <u>N.A</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| d) Attached garage (top of slab) | <u>6.7</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) | <u>8.9</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | <u>6.6</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG) | <u>7.1</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support | <u>N.A</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |

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 surveyor? Yes No
- Check here if attachments.

| | |
|---|--|
| Certifier's Name John P. Pacetti, PSM | License Number 6916 |
| Title P.S.M. | Company Name Marco Surveying & Mapping, LLC |
| Address 950 N. Collier Blvd., #412 | City Marco Island State FL ZIP Code 34145 |
| Signature  | Date 02/25/2015 Telephone 239-389-0026 |



ELEVATION CERTIFICATE, page 2

| | |
|---|----------------------------------|
| 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. 381 Regatta Street | Policy Number: |
| City Marco Island State FL ZIP Code 34145 | 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 A9a Square footage was derived from the Collier County Property Appraiser's website. A9b there are 2 Interek model FS-1412 vents that provide 213 sq.in. of venting. There are 2 other vents which according to City of Marco personel provide 442 sq.in., however no certified information from an engineer was provided for these vents, only a letter from "Overdoors of Florida". C2a is the front door threshold as there was no access to the structure. See page 4 for additional notes.

Signature *John Beeth* Date 02/25/2015

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 _____ feet meters above or below the HAG.
 - b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the LAG.
- E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 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–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 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–G10) 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 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 <i>CHRISTOPHER SPARACINO, CFM</i> | Title <i>PLANNER</i> |
| Community Name | Telephone |
| Signature <i>C. Sparacino</i> | Date <i>3/12/15</i> |

Comments _____

Check here if attachments.

Building Photographs

See Instructions for Item A6.

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.
381 Regatta Street

Policy Number:

City Marco Island

State FL

ZIP Code 34145

Company NAIC Number:

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.

Front View



11/10/2014

Rear View



11/10/2014

Vents



02/25/2015



02/25/2015

Field book: 99, Page: 67, 11/10/2014, WO# 14-518
Revised to add Venting information, R.Y., 11/20/2014
Revised to add additional venting information; JP; 02/25/2015

Building Photographs

Continuation Page

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. 381 Regatta Street | | | FOR INSURANCE COMPANY USE | |
| City Marco Island | | | State FL | ZIP Code 34145 |
| | | | Policy Number: | |
| | | | Company NAIC Number: | |

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.

Surveyor's Note: C2e is the A/C pad (N. side). Property is subject to a City of Marco Island Mandated 9.0 minimum floor elevation. According to the Collier County Property Appraiser structure was built in 2000. See provided vent information below and on page 5.



CERTIFICATION OF ENGINEERED FLOOD OPENINGS (FEMA TB1 AUGUST 2008; ASCE/SEI 24-14)

I do hereby certify that the FLOOD SOLUTIONS LLC Flood Vents properly sized and installed in accordance with the 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 the automatic entry and exit of floodwater.

I do also hereby certify that I calculated the Total Net Area of Openings (A_0) and Total Enclosed Area (A_e) for each model listed below as manufactured by Flood Solutions, LLC; One Industrial Park Dr., Building 27, Pelham, NH 03076 (Telephone: 603-595-5222). The results of the calculations are summarized in the table below. The Total Enclosed Area (A_e) calculation was performed using the formula in FEMA Technical Bulletin 1 - August 2008 *Openings in Foundation Walls and Walls of Enclosures* in accordance with the National Flood Insurance Program (NFIP) and ASCE/SEI 24-14 *Flood Resistance Design and Construction*.

I used the formula in TB 1 - August 2008: $A_0 = 0.033[1/c]RA_e$, and solved for A_e , to determine the Total Enclosed Area for each model listed below. I used the following assumptions: A_0 = total net area of openings (in²); 0.033 = coefficient corresponding to a factor of safety of 5.0 which is consistent with design practices related to protection of life and property; c = 0.20 opening coefficient (ASCE/SEI 24-14 Table 2-2 opening coefficient for all shapes partially obstructed during design flood); R = 5 ft/hr; and A_e = total enclosed area (ft²).

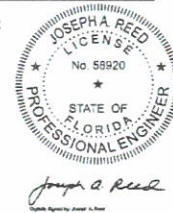
There shall be a minimum of two openings on different sides of each enclosed area; if a structure has more than one enclosed area below the BFE, each area shall have a minimum of two openings; the bottom of each required opening shall be no more than 1 ft. above the higher of the final interior grade or floor and the finished exterior grade immediately under each opening; the difference between the exterior and interior floodwater levels shall not exceed 1 ft. during base flood conditions; openings shall not be less than 3 inches in any direction in the plane of the wall (this refers to the hole in the wall); in the absence of reliable data on the rates of rise and fall, assume a rate of rise and fall of 5 ft/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. Where potential for excessive debris clogging may be a potential, the required openings shall be increased to account for the higher level of potential debris clogging.

| Model Number | Size of Wall Opening (Width x Height) | A_0 = total net area of openings (in ²) | A_e = total enclosed area (ft ²) |
|--------------|---------------------------------------|---|--|
| FS-1608 | 16" x 8" | 80.68 | 97 |
| FS-1616 | 16" x 16" | 158.15 | 191 |
| FS-1412 | 14-1/2" x 12" | 106.7 | 129 |
| FS-1608-HEX | 16" x 8" | 91.35 | 110 |

CERTIFYING DESIGN PROFESSIONAL:

NAME: Joseph A. Reed, PE
 TITLE: Director - Engineering
 ADDRESS: Architectural Testing, Inc.
130 Derry Ct, York, PA 17406
 TYPE OF LICENSE: Professional Engineer
 STATE: Florida LICENSE NUMBER: 58920
 SIGNATURE: Joseph A. Reed

SEAL:



2014.12.16 12:08:09 -05'00'

To be completed by installer: I HEREBY CERTIFY THAT THE NUMBER/LOCATION/INSTALLATION OF FLOOD VENTS HAVE BEEN INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS LISTED ABOVE ON THE BUILDING LOCATED AT:

ADDRESS: 381 Regatta Street, Marco Island FL 34145

NUMBER OF VENTS INSTALLED: 2 MODEL NUMBER: FS-1412
Whitman Industries LLC x [Signature]
 Installed by: (Print Name/Company Name) Signature of installer

130 Derry Court
York, PA 17406

www.archtest.com · www.intertek.com/building

p. 717.764.7700
f. 717.764.4129

OVERDOORS OF FLORIDA, INC

791 20TH AVE N W, NAPLES FL 34120
(239) 643-7612

December 2, 2014

RE: Hydro-matic release vents

Hydro-matic release vents are designed so that in the event of a tidal surge, the water pressure will push the louver vent out of the plastic frame and allow water to flow through into the garage.

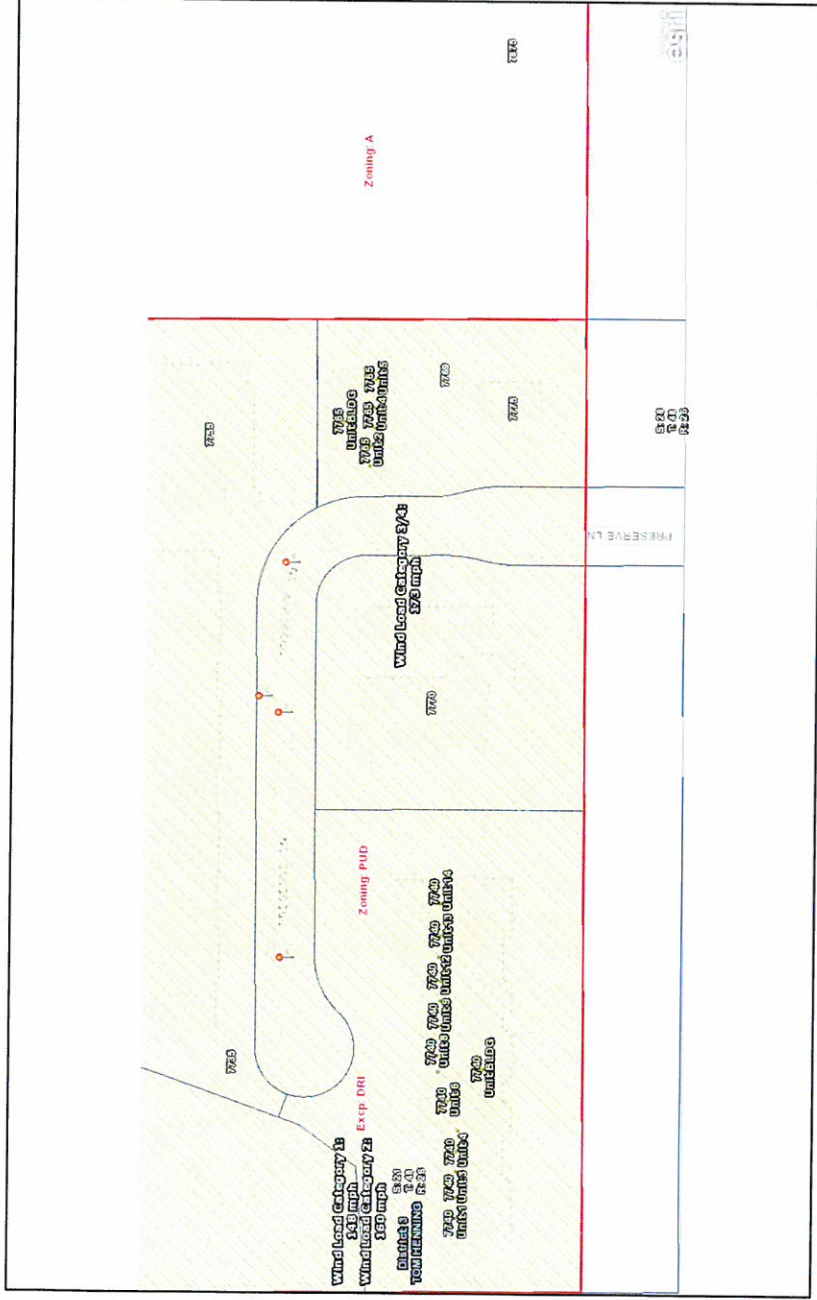
Sincerely,

Rich Thackston
Overdoors of Florida, Inc.

WWW.OVERDOORSOFFLORIDA.COM

Collier Zoning Map

Zoning map for Collier County, Florida



Sources: Esri, HERE, DeLorme, TomTom, Intermap, Increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

