

# ELEVATION CERTIFICATE

IMPORTANT: Follow the instructions on pages 1-9.

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

## SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name <b>Karl and Karen Moeller</b>		FOR INSURANCE COMPANY USE	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <b>315 Fremantle Way</b>		Policy Number:	
City <b>Redington Shores</b> State <b>FL</b> ZIP Code <b>33708</b>		Company NAIC Number:	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) <b>Lot 41 - Redington Shores Yacht and Tennis Club, Plat Book 130, Pages 42-44</b>			
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <b>Residential</b>			
A5. Latitude/Longitude: Lat. <b>27.8275°N</b> Long. <b>-82.8264°W</b> 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 <b>7</b>			
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) <b>2618</b> sq ft		a) Square footage of attached garage <b>N/A</b> sq ft	
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <b>11</b>		b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <b>N/A</b>	
c) Total net area of flood openings in A8.b <b>2618</b> sq in		c) Total net area of flood openings in A9.b <b>N/A</b> sq in	
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number <b>Redington Shores - 125141</b>		B2. County Name <b>Pinellas</b>		B3. State <b>Florida</b>	
B4. Map/Panel Number <b>12103C0179</b>	B5. Suffix <b>G</b>	B6. FIRM Index Date <b>08/18/09</b>	B7. FIRM Panel Effective/Revised Date <b>09/03/2003</b>	B8. Flood Zone(s) <b>AE</b>	B9. Base Flood Elevation(s) (Zone A0, use base flood depth) <b>11'</b>
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/A0. Complete items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: **County Map #200 (Redington B)** Vertical Datum: **NAVD -1988**

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.

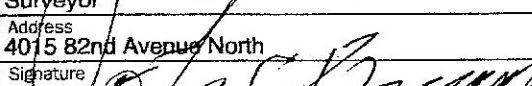
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	<b>6</b> <b>10</b>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
b) Top of the next higher floor	<b>18</b> <b>61</b>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
c) Bottom of the lowest horizontal structural member (V Zones only)	<b>N</b> <b>A</b>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
d) Attached garage (top of slab)	<b>N</b> <b>A</b>	<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)	<b>12</b> <b>07</b>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
f) Lowest adjacent (finished) grade next to building (LAG)	<b>5</b> <b>61</b>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
g) Highest adjacent (finished) grade next to building (HAG)	<b>6</b> <b>22</b>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	<b>N</b> <b>A</b>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters

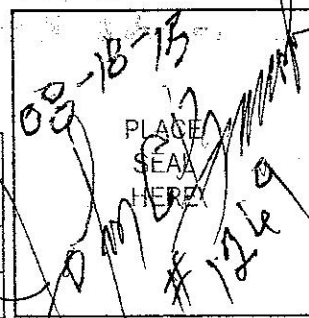
## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

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 <b>John C. Brendla</b>		License Number <b>1269</b>	
Title <b>Surveyor</b>		Company Name <b>John C. Brendla and Associates, Inc.</b>	
Address <b>4015 82nd Avenue North</b>		City <b>Pinellas Park</b>	State <b>FL</b>
Signature 		ZIP Code <b>33781</b>	Telephone <b>(727)-576-7546</b>
Date <b>08/18/2015</b>			



**ELEVATION CERTIFICATE, page 2****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.

315 Fremantle Way

City

Redington Shores

State

FL

ZIP Code

33708

**FOR INSURANCE COMPANY USE**

Policy Number

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 C2) a. Storage and Garage area C2) b. Lowest Living Floor C2) e. Electric Outlet Elevation

There are 11 Smart Cooke Vents at 238 square inch per vent for a total of 2618 square inches  
Benchmark: County Map #200 (Redington B) 4.549' NGVD, adjusted to 3.81' NAVD, MSL=0.00'

Signature

Date 08/18/2015

**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 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 ImprovementG8. 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

Title

Community Name

Telephone

Signature

Date

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.  
315 Fremantle Way

Policy Number:

City  
Redington ShoresState  
FLZIP Code  
33708

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 required by Section A.6. If submitting more photographs than will fit on this page, use the Continuation Page.



FRONT



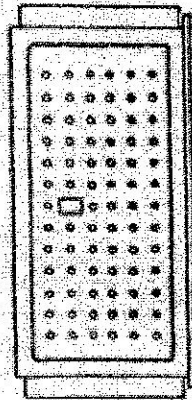
BACK



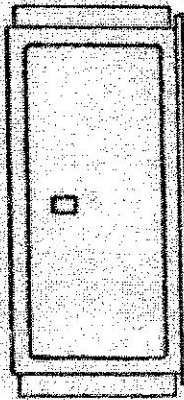
# Galvanized Foundation Flood Vent

Save Your Foundation From Flood Damage!

## 8"x16" Cooke Vent

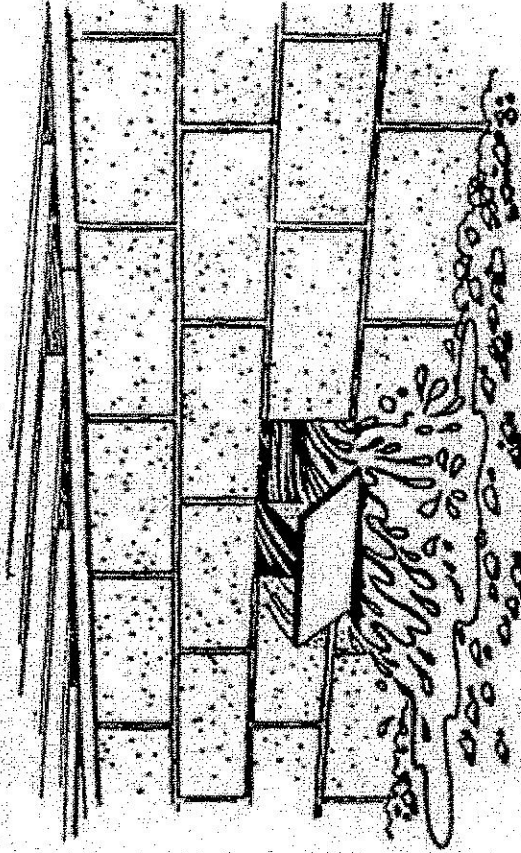


Perforated Door Face  
With Storm Backing



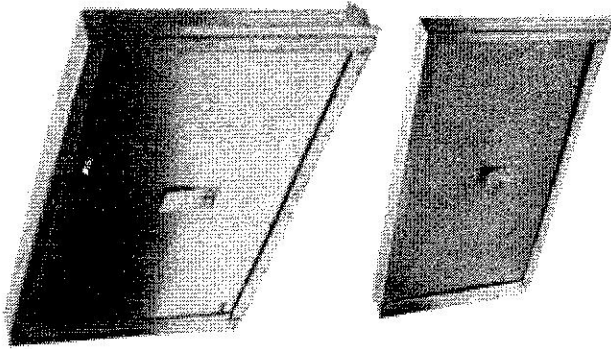
Solid Door Face With  
Storm Backing

- Meets Boca 1993 Requirements Of Section 31074.3
  - Relieves Hydro-Static Pressure
  - Net Free Opening Of 98 Square Inches Per Vent
  - To Be Used In Block Foundations In All Flood Plain Areas
- Check Local Code For Appropriate Number of Vents Per Foundation



Vents From Inside Crawlspace - Door Pops Under Hydro-Static Pressure!  
Relieves Pressure On Foundation

### 8" x 16" Cooke Vent

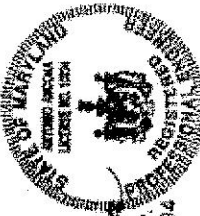


I, Antonio Ancona, do hereby certify that the 8"x16" Flood Vents by Cooke & Associates, the 8"x16" Solid Door Face and Perforated Door Face with Styro Backing are in compliance with Section 2.6.1.2, SEI/ASCE 24-98, Flood Resistant Design and Construction Standard. This standard requires flood vents to open and prevent unbalanced water elevation to be limited to 12" for the expected maximum flood rate of rise and fall.

The subject flood vents, when open, will provide 98 square inches of opening. Each flood vent will provide 238 sq.ft. of flood protection for a maximum rate of rise and fall of 5 ft/hr. Further it is noted that the use of the vents is subject to the following limitations:

1. The bottom of the vent shall be no higher than 12" from finish grade.
2. There shall be appropriate number of vents per foundation as needed to supply 1 square inch of net free space for 2.424 square feet of enclosed space for maximum rate of rise and fall of 5 ft/hr. The flood protection area per inch of opening can be increased, per engineering calculation, for rate of rise and fall less than 5 ft/hr, and the flood area per inch of opening shall be reduced, per engineering calculations, if the rate of rise and fall is greater than 5 ft/hr.
3. The flood gates shall not be used for crawl space ventilation.
4. And, the vents shall not be restricted as to the operation of the drop out panel, this panel must be able to drop out freely at all times. A vent visual inspection is recommended after the initial installation and completion of all construction work around the vents to ensure that the vent panel is free to drop out.

Sincerely,

  
*Antonio Ancona*  
Antonio Ancona, P.E., Ph.D.  
Maryland P.E. Lic. No. 10694

## Engineered Flood Openings Certificate

### To satisfy requirements of the National Flood Insurance Program

This certification must be submitted to, and kept on file by, the local jurisdiction's permit authority. A copy should be retained by the owner to demonstrate compliance in order to receive flood insurance rating.

The Cooke Vent 01 is certified as meeting the flood openings requirements for engineering openings as set forth in the Federal Emergency Management Agency's National Flood Insurance Program regulations (44CFR 60.3(c)(5)) and ASCE 24-14, provided it is installed according to the references, as summarized below. Flood openings are required in enclosures below elevated buildings, attached and detached garages, and accessory structures that meet the required limitations.

I do hereby certify that the Cooke Flood Vent 01 is designed for installation in buildings, will allow for the automatic equalizing of hydrostatic flood forces on exterior walls by allowing for the automatic entry and exit of flood water during floods up to and including the base(100-year) flood. One Cooke Vent for every 238 Sq.Ft. of enclosed area will provide sufficient hydrostatic pressure equalization during a flood provided the installation limitations and instructions are followed as listed below. To calculate the required number of Cooke Vents divide the Square Feet of enclosed area by 238.

#### \*Required Fields

Signature: \_\_\_\_\_

Antonio Ancona, P.E.

Date

5/13/2012

Title: Consulting Engineer

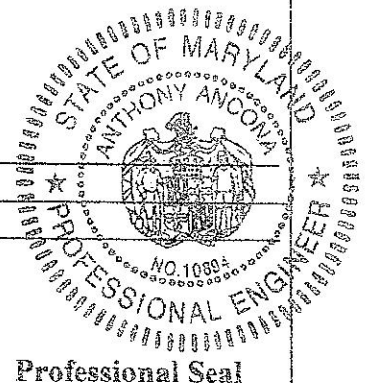
Type of License: Professional Engineer

License Number MD PE 10894

\*Project Name \_\_\_\_\_

\*Project Address \_\_\_\_\_

\*Date Submitted \_\_\_\_\_



Professional Seal

#### Installation Limitations and Instructions

1. The bottom of the vent shall be no higher than 12" from finished grade.
2. There shall be appropriate number of vents per foundation as needed to supply 1 square inch of net free space for 2.424 square feet of enclosed space for maximum rate of rise and fall of 5ft/hr or less. The flood protection area per inch of opening can be increased, per engineering calculation, for rate of rise and fall less than 5ft/hr, and the flood area per inch of opening shall be reduced, per engineering calculations, if the rate of rise and fall is greater than 5ft/hr.
3. The flood vents shall not be used for crawl space ventilation.
4. And, the vents shall not be restricted as to the operation of the drop out panel, this panel must be able to drop out freely at all times. A vent visual is to be performed after the initial installation of the vents, after completion of all building work or site grading done after the installation of the vents to ensure that the vent panel is free to drop out.
5. The flood vent openings are designed to automatically equalize hydrostatic flood loads on exterior walls by allowing entry and exit of flood waters in accordance with Engineered openings.
6. Note that Ancona and Associates, Inc., its employees, and any Ancona and Associates, Inc. associates do not assume any risk or liability for the flood vent or the vent installation, and makes no warranty of any kind, express or implied, with regard to the vents, or installation of the vents, unless Ancona and Associates, Inc. representative inspects and approves the vent installation