

DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
ELEVATION CERTIFICATE

IMPORTANT: FOLLOW THE INSTRUCTIONS ON PAGES 9-16

OMB Control Number: 1660-0008
Expiration: 11/30/2018

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

SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name: PATRICIA D. & GUILFORD JONES II Policy Number: _____

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 115 WIMBLEDON COURT Company NAIC Number: _____

City: REDINGTON SHORES State: FL. Zip Code: 33708

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.): LOT 59, REDINGTON SHORES YACHT AND TENNIS CLUB

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

A5. Latitude/Longitude: Lat. 27.8266 Long. -82.8270 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: 7

A8. For a building with a crawlspace or enclosure(s): _____

A8. For a building with an attached garage: _____

a) Square footage of crawlspace or enclosure(s): 1386 sq ft a) Square footage of attached garage: 1124 sq ft

b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade: 8 b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade: 7

c) Total net area of flood openings in A8.b: 1528 sq ft c) Total net area of flood openings in A8.b: 1337 sq ft

d) Engineered flood openings? Yes No d) Engineered flood openings? Yes No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number: REDINGTON SHORES 125141 B2. County Name: PINELLAS B3. State: FL.

B4. Map/Panel Number: 121030179 G B5. Suffix: G B6. FIRM Index Date: 8-18-09 B7. FIRM Panel Effective/ Revised Date: 9-03-03 B8. Flood Zone(s): AE B9. Base Flood Elevation(s) (Zone AO, use base flood depth): 11.1'

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/Source: _____

B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source: _____

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

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction

C2. Elevations - Zones A1 - A30, AE, AH, A (with BFE), VE, V1 - V30, V (with BFE), AR, ARIA, ARIAE, 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.
* A new Elevation Certificate will be required when construction of the building is complete.

Benchmark Utilized: SEE COMMENTS 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.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor) feet meters: 7.1

b) Top of the next higher floor feet meters: 14.9

c) Bottom of the lowest horizontal structural member (V Zones only) feet meters: 0.0

d) Attached garage (top of slab) feet meters: 7.1

e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) feet meters: 14.0

f) Lowest adjacent (finished) grade next to building (LAG) feet meters: 6.3

g) Highest adjacent (finished) grade next to building (HAG) feet meters: 7.1

h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support feet meters: 6.5



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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.			
<input checked="" type="checkbox"/> Check here if attachments. Were latitude and longitude in Section A provided by a licensed land surveyor? <input checked="" type="radio"/> Yes <input type="radio"/> No			
Certifier's Name DAVID C. HARNER	License Number 2650	<div style="text-align: right; font-size: 1.2em; font-weight: bold;"> <i>David C. Harner</i> 5-23-16 DAVID C. HARNER RLS No. 2650 </div>	
Title PROFESSIONAL SURVEYOR AND MAPPER			
Company Name DAVID C. HARNER			
Address 9925 GULF BOULEVARD	City TREASURE ISLAND	State FL	Zip Code 33706
Signature <i>David C. Harner</i>	Date 5-23-16	Telephone +1 (727) 360-0636	
Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.			
Comments (including type of equipment and location, per C2(e), if applicable) <i>C 2 e = BATTERY OF ELECTRIC METER BOX. A 8 d * A 9 d: FLOOD SOLUTIONS MODEL FS-1616 RATE AT 191" EACH, IN EXTENSIVE WALLS. BENCHMARK ELEVATION = 3.81' ON DINELLAS COUNTY BENCHMARK #200.</i>			
Signature <i>David C. Harner</i> Date 5-23-16			
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 <input type="radio"/> meters <input type="checkbox"/> above or <input type="checkbox"/> below the HAG.			
b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet <input type="radio"/> meters <input type="checkbox"/> above or <input type="checkbox"/> below the LAG.			
E2. For Building Diagrams 6 -9 with permanent flood openings provided in Section A items 8 and/or 9 (see pages 6 -8 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ feet <input type="radio"/> meters <input type="checkbox"/> above or <input type="checkbox"/> below the HAG.			
E3. Attached garage (top of slab) is _____ feet <input type="radio"/> meters <input type="checkbox"/> above or <input type="checkbox"/> below the HAG.			
E4. Top of platform of machinery and/or equipment servicing the building is _____ feet <input type="radio"/> meters <input type="checkbox"/> above or <input type="checkbox"/> 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? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> 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 _____			
<input type="checkbox"/> Check here if attachments.			<input type="checkbox"/> Check here if attachments.

FILE

BUILDING PHOTOGRAPHS

OMB Control Number: 1660-0008
Expiration: 11/30/2018

See instructions for Item A6

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.	
<i>115 WINDLETON COURT</i>	
City	State
<i>REDWINGTON SHORES</i>	<i>FL.</i>
Zip Code	Company NAIC Number
<i>33708</i>	

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 A6. If submitting more photographs than will fit on this page, use the Continuation Page.

*5-23-16
FRONT VIEW*



REAR VIEW



FILE

BUILDING PHOTOGRAPHS

Continuation Page

OMB Control Number: 1660-0008
Expiration: 11/30/2016

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. <i>115 WIMBLETON COURT</i>		
City	State <i>FL.</i>	Zip Code
FORM INSURANCE COMPANY USE		Policy Number:
		Company NAIC Number:

If submitting more photographs than will fit on the preceding pages, 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.

5-23-16

TYPICAL FLOOD OPENINGS



FILE

ICC-ES Evaluation Report

ESR-3760

Reissued March 2016

This report is subject to renewal March 2018.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

FLOOD SOLUTIONS, LLC
ONE INDUSTRIAL PARK DRIVE
BUILDING 27
PELHAM, NEW HAMPSHIRE 03076
(600) 325-9775
www.floodsolutions.com
info@floodsolutions.com

EVALUATION SUBJECT:

STATIC FLOOD VENTS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012 and 2009 *International Building Code*®
- 2015, 2012 and 2009 *International Residential Code*®

Property evaluated:

Water flow

2.0 USES

Flood Solutions' static flood vents are used to provide for the equalization of hydrostatic flood forces on exterior walls.

3.0 DESCRIPTION

3.1 General:

Flood Solutions' static flood vents are engineered, permanently open flood vents with no moving parts that automatically allow flood waters to enter and exit enclosed areas. The vents are constructed of aluminum and available in four models. See Table 1 for model designations and sizes. See Figure 1 for illustrations of the flood vents.

3.2 Engineered Opening:

The Flood Solutions static flood vents comply with the design principle noted in Section 2.6.2.2 of ASCE/SEI 24 for a rate of rise and fall of 5 feet per hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/SEI 24, the static flood vents must be installed in accordance with Section 4.0 of this report.

3.3 Ventilation:

Flood Solutions' static flood vents may be used to supply natural ventilation for under-floor ventilation. See Table 1

for net free area for under-floor ventilation provided by each of Flood Solutions' static flood vents.

4.0 DESIGN AND INSTALLATION

The Flood Solutions static flood vents are designed to be installed into walls or doors of existing or new construction from the exterior side. Installation of the vents must be in accordance with the manufacturer's instructions, the applicable code and this report. In order to comply with the engineered opening design principle noted in Section 2.6.2.2 of ASCE/SEI 24, the vents must be installed as follows:

- With a minimum of two opening on different sides of each enclosed area.
- With a minimum of one vent for the square footage of enclosed area noted in Table 1.
- Below the base flood elevation.
- With the bottom of the vent located a maximum of 12 inches (305 mm) above grade.

5.0 CONDITIONS-OF-USE

The static flood vents described in this report comply with, or are a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The static flood vents must be installed in accordance with this report, the applicable code and the manufacturer's installation instructions. In the event of a conflict, the instructions in this report govern.

5.2 The static flood vents must not be used in the place of "breakaway walls" in coastal high hazard areas, but are permitted for use in conjunction with breakaway walls in other areas.

6.0 EVIDENCE SUBMITTED

6.1 Manufacturer's descriptive literature and installation instructions.

6.2 Detail drawings.

6.3 Engineering calculations in accordance with ASCE/SEI 24.

6.4 Quality documentation in accordance with the ICC-ES Acceptance Criteria for Quality Documentation (AC10), dated June 2014.

7.0 IDENTIFICATION

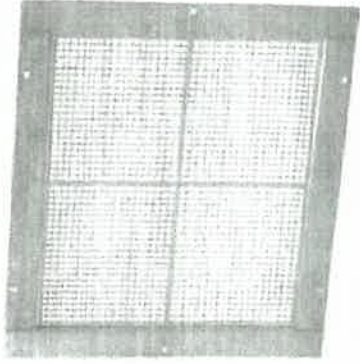
The Flood Solutions static flood vents recognized in this report must be identified by a label bearing the manufacturer's name (Flood Solutions), the model number, and the evaluation report number (ESR-3760).

TABLE 1—FLOOD SOLUTIONS STATIC FLOOD VENTS

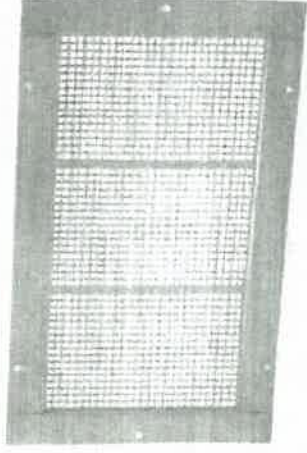
MODEL	VENT SIZE (Width x Height) (in)	ROUGH OPENING SIZE (Width x Height) (in)	ENCLOSED AREA COVERAGE (ft ²)	NET FREE AREA ¹ (in ²)
FS-1608	18 1/2 x 10 1/2	16 x 8	97	80.7
FS-1616	18 1/2 x 18 1/2	16 x 16	191	158.2
FS-1412	17 x 14 1/2	14 1/2 x 12	129	106.7
FS-1608-Hex	18 1/2 x 10 1/2	16 x 8	110	91.4

For SI: 1 inch = 25.4 mm; 1 ft = 304.8 mm

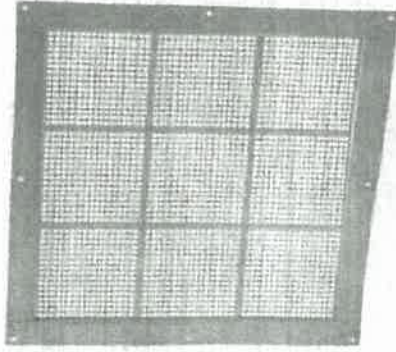
¹Available for use as under-floor ventilation.



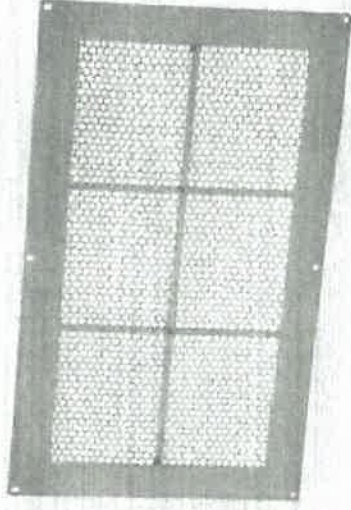
FS-1412



FS-1608



FS-1616



FS-1608-HEX

FIGURE 1—FLOOD SOLUTIONS STATIC FLOOD VENTS

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