

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1–9.

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 | | | | FOR INSURANCE COMPANY USE | |
|---|-----------------|-----------------------------------|--|---------------------------|---|
| A1. Building Owner's Name Michael and Candace Valdes | | | | Policy Number: | |
| A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 15652 Gulf Blvd. | | | | Company NAIC Number: | |
| City Redington Beach | | State Florida | | ZIP Code 33708 | |
| A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 2, Block 7, First Addition To Lone Palm Beach Pinellas County Parcel ID #09-31-15-52542-007-0020 | | | | | |
| A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u> | | | | | |
| A5. Latitude/Longitude: Lat. <u>27°48'23.5" N</u> Long. <u>82°48'32.8" W</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>6</u> | | | | | |
| A8. For a building with a crawlspace or enclosure(s): | | | | | |
| a) Square footage of crawlspace or enclosure(s) <u>2541.00</u> sq ft | | | | | |
| b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>25</u> | | | | | |
| c) Total net area of flood openings in A8.b <u>2750.00</u> sq in | | | | | |
| d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| A9. For a building with an attached garage: | | | | | |
| a) Square footage of attached garage <u>N/A</u> sq ft | | | | | |
| b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>0</u> | | | | | |
| c) Total net area of flood openings in A9.b <u>0.00</u> sq in | | | | | |
| 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 Town Of Redington Beach 125140 | | | B2. County Name Pinellas "independent city" | | B3. State Florida |
| B4. Map/Panel Number 12103C0191 | B5. Suffix G | B6. FIRM Index Date 08-18-2009 | B7. FIRM Panel Effective/ Revised Date 09-03-2003 | B8. Flood Zone(s) VE | B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 13.0 |
| 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 | | | | | |

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2018

| | | | |
|---|------------------|-------------------|----------------------------------|
| 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. 15652 Gulf Blvd. | | | Policy Number: |
| City Redington Beach | State Florida | ZIP Code 33708 | Company NAIC Number |

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: "REDINGTON RM" 2 PID AG0835 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) | 7.0 | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor | 16.7 | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) | 15.3 | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| d) Attached garage (top of slab) | N/A | <input 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) | 16.6 | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | 6.6 | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG) | 6.9 | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support | 5.8 | <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.*

Were latitude and longitude in Section A provided by a licensed land surveyor? ☒ Yes ☐ No ☒ Check here if attachments.

| | | | |
|---|--------------------|-----------------------------|--------------------------------|
| Certifier's Name Dennis J. Eyre | | License Number 2865 | Place Seal Here |
| Title Professional Surveyor and Mapper | | | |
| Company Name Geodata Services, Inc. | | | |
| Address 1166 Kapp Drive | | | |
| City Clearwater | State Florida | ZIP Code 33765 | |
| Signature | Date 06-27-2019 | Telephone (727) 447-1763 | Ext. |

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

Comments (including type of equipment and location, per C2(e), if applicable)

This elevation certificate includes a 2 page attachment with surveyor's comments and sketch, and an attachment of the ICC-ES Evaluation Report for the flood vent model noted.
It is not complete without the attachments.

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2018

| | | | |
|---|------------------|-------------------|----------------------------------|
| 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. 15652 Gulf Blvd. | | | Policy Number: |
| City Redington Beach | State Florida | ZIP Code 33708 | Company NAIC Number |

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 1–2 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.

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2018

| | | | |
|---|------------------|-------------------|----------------------------------|
| 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. 15652 Gulf Blvd. | | | Policy Number: |
| City Redington Beach | State Florida | ZIP Code 33708 | Company NAIC Number |

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 | Title |
| Community Name | Telephone |
| Signature | Date |

Comments (including type of equipment and location, per C2(e), if applicable)

☐ Check here if attachments.

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

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.
15652 Gulf Blvd.

City
Redington Beach

State
Florida

ZIP Code
33708

FOR INSURANCE COMPANY USE

Policy Number:

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.



Photo One

Photo One Caption Front View 06-20-2019

Clear Photo One



Photo Two

Photo Two Caption Rear View 06-20-2019

Clear Photo Two

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2018

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.
15652 Gulf Blvd.

Policy Number:

City
Redington Beach

State
Florida

ZIP Code
33708

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.



Photo Three

Photo Three Caption Left Side View 06-20-2019

Clear Photo Three



Photo Four

Photo Four Caption Right Side View 06-20-2019

Clear Photo Four

Elevation Certificate Attachment
Surveyor's Comments and Sketch
15652 Gulf Blvd., Redington Beach FL 33708
Date: 06-27-2019

Comments:

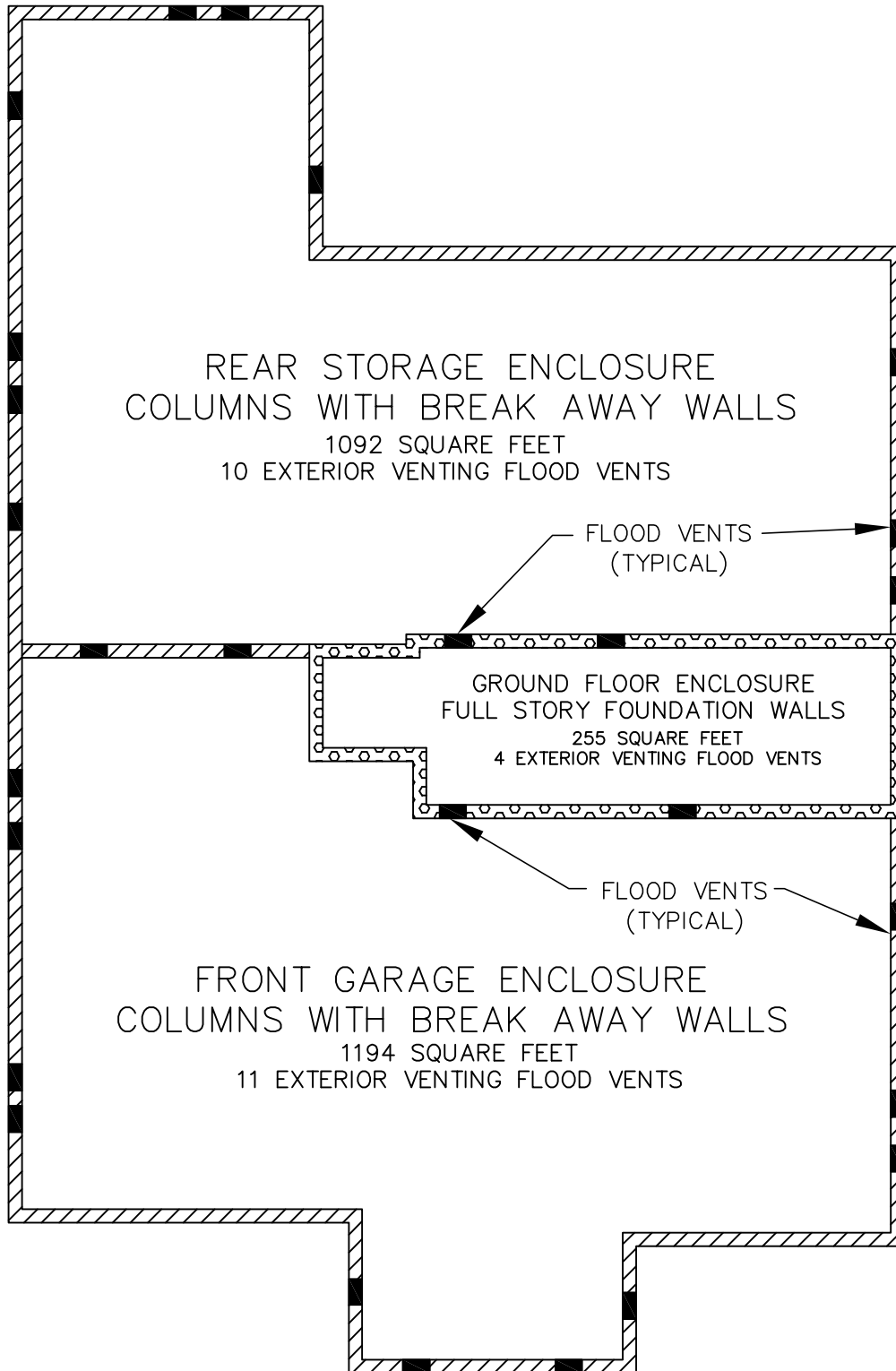
- A4. 3 story residence.
- A5. Determined with GIS program "Google Earth".
- A7. Residence constructed on columns with break away walls.
- A8.a) Total of (3) ground floor enclosures.
- 1 enclosure with full story foundation walls. Area = 255 square feet,
(Entryway and elevator only, no living area.)
 - 1 Garage (front) enclosure with break away walls. Area = 1194 square feet.
(No living area.)
 - 1 Storage (rear) enclosure with break away walls. Area = 1092 square feet.
(No living area.)
- A8.b) 21 flood openings within 1.0 foot of exterior grade. 4 flood openings within 1.0 feet of interior grade.
- Entryway enclosure: 4 flood openings, exterior venting to break away wall enclosures.
 - Garage (front) enclosure: 11 flood openings, exterior venting to outside of building.
 - Storage (rear) enclosure: 10 flood openings, exterior venting to outside of building.
- A8.c) Total net area, without regard to vents or covers.
- A8.d) "Flood Solutions", model FS-1608-HEX, each providing 110 square feet of flood coverage,
- Entryway enclosure 440 square feet of flood coverage.
 - Garage enclosure 1210 square feet of flood coverage.
 - Storage enclosure 1100 square feet of flood coverage.
- Note: See page 2 attachment for all flood vent installation locations. All vents being the noted model.
- B7. Panel Effective date.
- C2.a) Ground floor enclosures elevation.
- C2.b) 2nd floor elevation. (1st living floor).
- C2.e) Air conditioner at left side of building.
- Additional elevations:
 - Electric service panel at left side of building elevation = 18.3 feet.
 - Tankless water heaters at left side of building elevation = 20.5 feet.
 - Elevator equipment inside of building elevation = 24.25 feet.

SURVEYOR CERTIFICATION

This attachment was prepared under my direction and supervision.
Licensed by the State of Florida to practice surveying and mapping.

Dennis J. Eyre PSM 2865
Geodata Services, Inc.
1166 Kapp Dr.
Clearwater, FL 33765

GROUND FLOOR FLOOD VENT SKETCH



SQUARE FOOTAGES BASED ON
OUTSIDE MEASUREMENTS WHICH
INCLUDES WALL WIDTHS



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ICC-ES Evaluation Report

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ESR-3760

Reissued 03/2018

This report is subject to renewal 03/2020.

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**

EVALUATION SUBJECT:

STATIC FLOOD VENTS



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ICC-ES Evaluation Report

ESR-3760

Reissued March 2018

This report is subject to renewal March 2020.

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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
(800) 325-9775
www.floodsolutions.com
info@floodsolutions.com

EVALUATION SUBJECT:

STATIC FLOOD VENTS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015, 2012 and 2009 *International Building Code*®
- 2018, 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

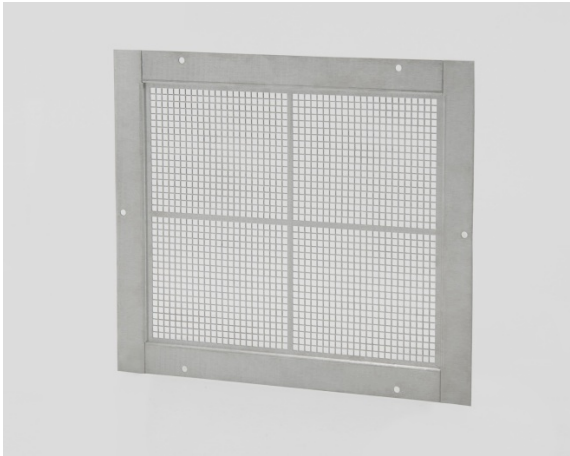
manufacturer’s name (Flood Solutions), the model number, and the evaluation report number (ESR-3760).

TABLE 1—FLOOD SOLUTIONS STATIC FLOOD VENTS

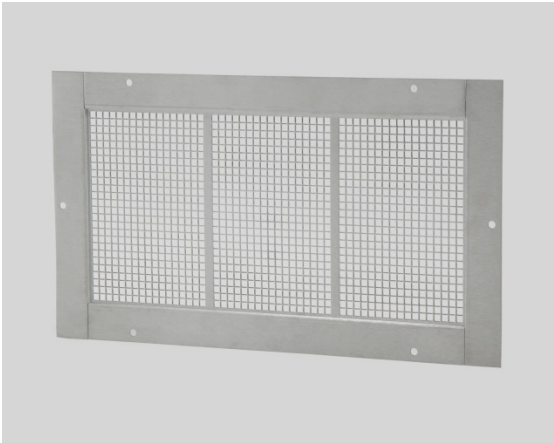
| MODEL | VENT SIZE (Width x Height) (in) | ROUGH OPENING SIZE (Width x Height) (in) | ENCLOSED AREA COVERAGE (ft ²) | NET FREE AREA ¹ (in ²) |
|-------------|---|---|---|--|
| FS-1608 | 18 ¹ / ₂ x 10 ¹ / ₂ | 16 x 8 | 97 | 80.7 |
| FS-1616 | 18 ¹ / ₂ x 18 ¹ / ₂ | 16 x 16 | 191 | 158.2 |
| FS-1412 | 17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

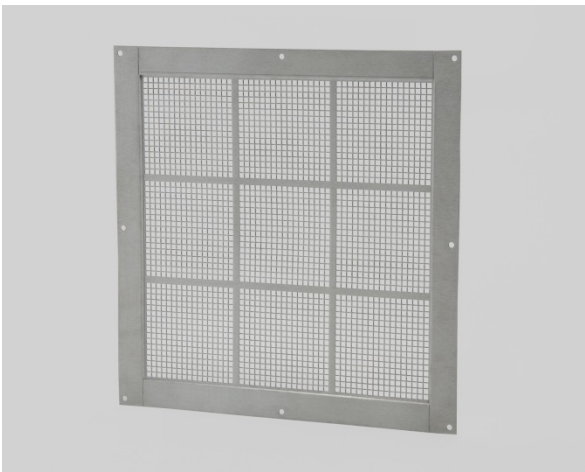
¹Available for use as under-floor ventilation.



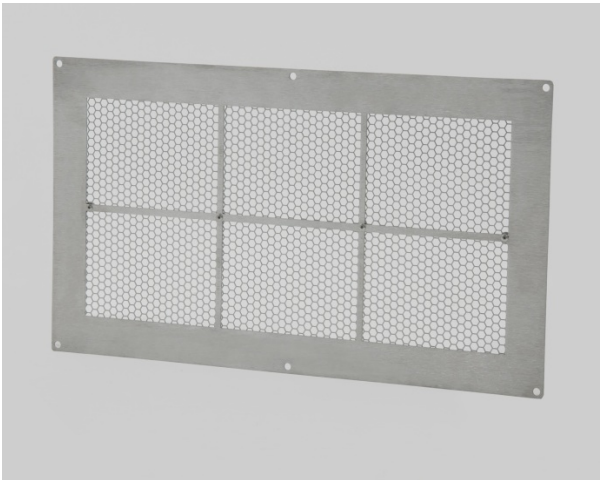
FS-1412



FS-1608



FS-1616



FS-1608-HEX

FIGURE 1—FLOOD SOLUTIONS STATIC FLOOD VENTS

ICC-ES Evaluation Report

ESR-3760 FBC Supplement

Reissued March 2018

This report is subject to renewal March 2020.

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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
(800) 325-9775

www.floodsolutions.com

info@floodsolutions.com

EVALUATION SUBJECT:

STATIC FLOOD VENTS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Flood Solutions' flood vents, recognized in ICC-ES master evaluation report [ESR-3760](#), have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2017 *Florida Building Code—Building*
- 2017 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The Flood Solutions flood vents, described in Sections 2.0 through 7.0 of the master evaluation report [ESR-3760](#), comply with the *Florida Building Code—Building* and the *Florida Building Code—Residential*, provided the design and installation are in accordance with the 2015 *International Building Code*® provisions noted in the master report.

Use of the Flood Solutions' flood vents has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and the *Florida Building Code—Residential*.

For products falling under Florida Rule 9N-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the master report, reissued March 2018.