

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 KEITH KLUENDER AND ANDREA KLUENDER				Policy Number:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 219 BAHIA VISTA DRIVE				Company NAIC Number:	
City ENGLEWOOD		State Florida		ZIP Code 34223	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) LOT 8 AND PORTION OF LOT 7, BLOCK A, BRUCEWOOD BAYOU PID# 0504020009					
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Detached Garage</u>					
A5. Latitude/Longitude: Lat. <u>26° 57' 12.3"</u> Long. <u>-082° 21' 30.1"</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):					
a) Square footage of crawlspace or enclosure(s) <u>1,139</u> sq ft					
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>5</u>					
c) Total net area of flood openings in A8.b <u>581.25</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>0</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</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 SARASOTA COUNTY, FLORIDA 125144			B2. County Name Sarasota		B3. State Florida
B4. Map/Panel Number 12115C0453	B5. Suffix F	B6. FIRM Index Date 11/04/2016	B7. FIRM Panel Effective/ Revised Date 11/04/2016	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 12'
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. 219 BAHIA VISTA DRIVE			Policy Number:
City ENGLEWOOD	State Florida	ZIP Code 34223	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: USC&GS BM #66 ERS 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) | 4.5 | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor | N/A | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) | N/A | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| d) Attached garage (top of slab) | N/A | <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) | N/A | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | 3.8 | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG) | 4.4 | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support | N/A | <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 RANDALL E. BRITT	License Number #3979	 RANDALL E. BRITT, PLS FLORIDA CERTIFICATE #3979 DATE: <u>2/6/2017</u>
Title LAND SURVEYOR		
Company Name BRITT SURVEYING, INC.		
Address 606 CYPRESS AVENUE		
City VENICE	State Florida	
Signature 	Date 02/06/2017	Telephone (941) 493-1396

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)

ONE STORY CONCRETE BLOCK DETACHED GARAGE
ELEVATION OF BENCH MARK CONVERTED TO NAVD USING CORPSCON 6.
ICC-ES EVALUATION REPORT ATTACHED. (5) OF USA FLOOD AIR VENTS MODEL "FOAL-G" WERE INSTALLED. EACH PROVIDING 252 SQ. FT. OF COVERAGE = 1250 SQ. FT.

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.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 219 BAHIA VISTA DRIVE			Policy Number:
City ENGLEWOOD	State Florida	ZIP Code 34223	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



Photo Two

Photo Two Caption LEFT SIDE VIEW

BUILDING PHOTOGRAPHS

Continuation Page

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

ELEVATION CERTIFICATE

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. 219 BAHIA VISTA DRIVE			Policy Number:
City ENGLEWOOD	State Florida	ZIP Code 34223	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 One

Photo One Caption BACK VIEW



Photo Two

Photo Two Caption RIGHT SIDE VIEW



Most Widely Accepted and Trusted

ICC-ES Report

ESR-3907

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

Issued 10/2016

This report is subject to renewal 10/2017.

DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

REPORT HOLDER:

USA FLOOD AIR VENTS, LTD.

**63 PUTNAM STREET, SUITE 202
SARATOGA SPRINGS, NEW YORK 12866**

EVALUATION SUBJECT:

USA FLOOD AIR VENTS: MODELS FOSS; FASS; FOAL; FAAL; ROAL



Look for the trusted marks of Conformity!

"2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence"



A Subsidiary of

ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.



ICC-ES Evaluation Report**ESR-3907**

Issued October 2016

This report is subject to renewal October 2017.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:****USA FLOOD AIR VENTS, LTD.**
63 PUTNAM STREET
SUITE 202
SARATOGA SPRINGS, NEW YORK 12866
(631) 269-1872
www.usafloodairvents.com
info@usafloodairvents.com**EVALUATION SUBJECT:****USA FLOOD AIR VENTS: MODELS FOSS; FASS; FOAL;
FAAL; ROAL****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2015 and 2012 *International Building Code*® (IBC)
- 2015 and 2012 *International Residential Code*® (IRC)

Property evaluated:

- Physical operation
- Water flow
- Ventilation

2.0 USES

The USA Flood Air Vents are used to provide for the equalization of hydrostatic flood forces on exterior walls. Certain models also allow natural ventilation.

3.0 DESCRIPTION**3.1 General:**

USA Flood Air Vents are engineered mechanically operated flood vents that automatically allow flood waters to enter and exit enclosed areas. The vents are constructed of stainless steel or aluminum. On contact with rising flood water, the grill will disengage from its secured position, allowing flood water and debris to flow through in either direction. See Table 1 for vent sizes and Figure 1 for an illustration of the vents.

3.1.1 FOSS: The FOSS is constructed of stainless steel and has a solid flap to prevent the free flow of air into the under-floor space.

3.1.2 FASS: The FASS is constructed of stainless steel and has a flap with 1/4 inch (6 mm) diameter holes to allow for the ventilation of under-floor spaces.

3.1.3 FOAL: The FOAL is constructed of aluminum and has a solid flap to prevent the free flow of air into the under-floor space.

3.1.4 FAAL: The FAAL is constructed of aluminum and has a flap with 1/4 inch (6 mm) diameter holes to allow for the ventilation of under-floor spaces.

3.1.5 ROAL: The ROAL is constructed of aluminum and has a solid flap to prevent the free flow of air into the under-floor space. It is intended for retrofit applications.

3.2 Engineered Opening:

The USA Flood Air Vents flood vents comply with the design principle noted in Section 2.7.2.2 of ASCE/SEI 24-14 (Section 2.6.2.2 of ASCE/SEI 24-05) 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, USA Flood Air Vents flood vents must be installed in accordance with Section 4.0.

3.3 Ventilation:

USA Flood Air Vents models FASS and FAAL have 1/4 inch (6 mm) diameter holes in the flap to supply natural ventilation for under-floor ventilation. See Table 1 for the net free area provided for under-floor ventilation.

4.0 DESIGN AND INSTALLATION

USA Flood Air Vents flood vents are designed to be installed into walls or doors of existing or new construction. Installation of the flood vents must be in accordance with the manufacturer's instructions, the applicable code and this report. USA Flood Air Vents flood vents can be installed in wood, masonry and concrete walls. In order to comply with the engineered opening design principle noted in Section 2.7.2.2 of ASCE/SEI 24-14 (Section 2.6.2.2 of ASCE/SEI 24-05), the USA Flood Air Vents flood vents must be installed as follows:

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

5.0 CONDITIONS OF USE

The USA Flood Air Vents described in this report complies with, or is 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 USA Flood Air Vents 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 USA Flood Air Vents flood vents must not be used in 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

Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015.

7.0 IDENTIFICATION

The USA Flood Air Vents models recognized in this report are identified by a label bearing the manufacturer's name, the model designation, and the evaluation report number (ESR-3907).

TABLE 1—USA FLOOD AIR VENTS

MODEL DESIGNATION	VENT SIZE (Width x Height) (In)	ROUGH OPENING SIZE (Width x Height) (In)	ENCLOSED AREA COVERAGE (ft ²)	FLAP NET FREE AREA ¹ (In ²)
FOSS	18 x 10	15 1/2 x 7 1/2	252	None
FASS	18 x 10	15 1/2 x 7 1/2	252	28
FOAL	18 x 10	15 1/2 x 7 1/2	252	None
FAAL	18 x 10	15 1/2 x 7 1/2	252	37
ROAL	16 7/8 x 10	13 7/8 x 7 1/2	224	None

For SI: 1 inch = 25.4 mm

¹Net free area in the vent flap for under-floor space ventilation.

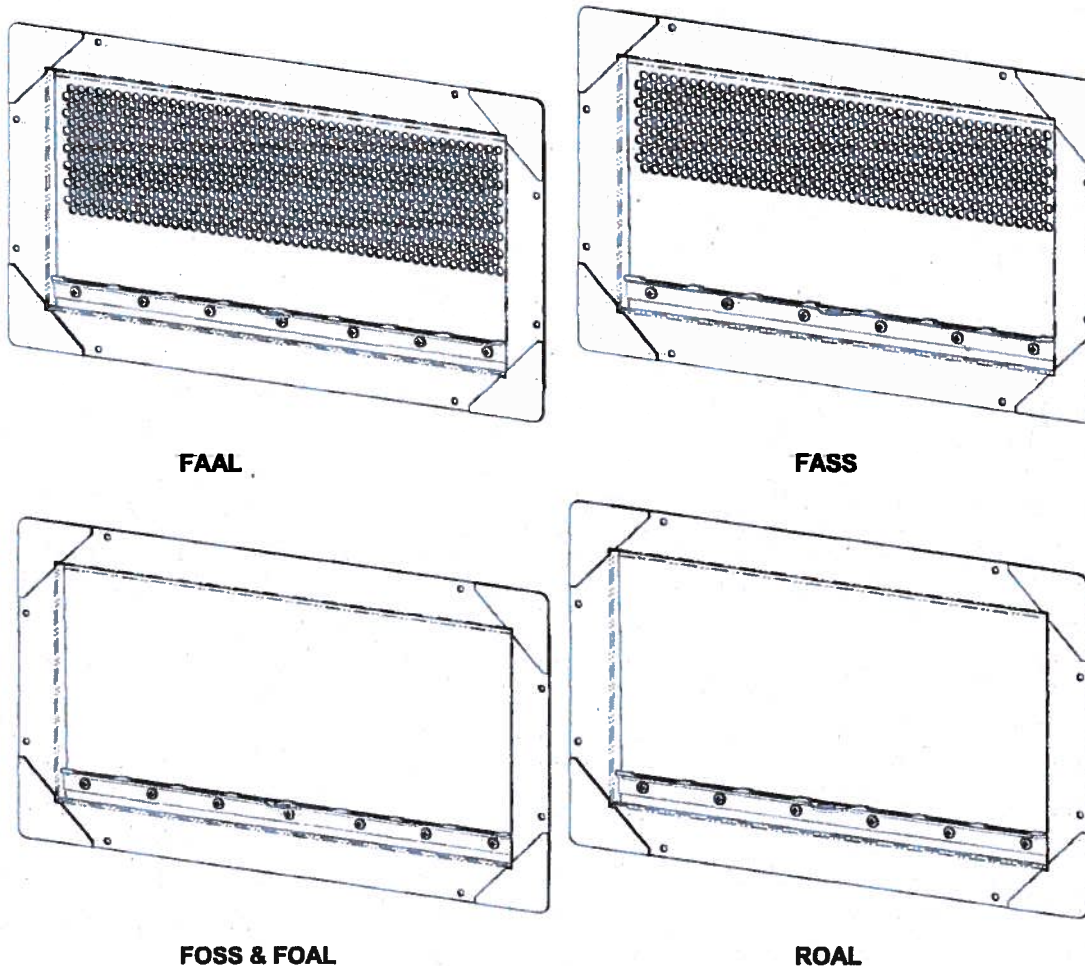


FIGURE 1—USA FLOOD AIR VENTS

ICC-ES Evaluation Report**ESR-3907 CBC and CRC Supplement**

Issued October 2016

This report is subject to renewal October 2017.

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:****USA FLOOD AIR VENTS, LTD.
63 PUTNAM STREET, SUITE 202
SARATOGA SPRINGS, NEW YORK 12866
(631) 269-1872
www.usafloodairvents.com
info@usafloodairvents.com****EVALUATION SUBJECT:****USA FLOOD AIR VENTS: MODELS FOSS; FASS; FOAL; FAAL; ROAL****1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that USA Flood Air Vents, recognized in ICC-ES master evaluation report ESR-3907, have also been evaluated for compliance with flood vent provisions of ASCE 24 referenced in CBC Chapters 16 and 16A and CRC Section R322; and ventilation provisions of CBC Section 1203.3 and CRC Section R408.2.

Applicable code editions:

- 2013 *California Building Code* (CBC)
- 2013 *California Residential Code* (CRC)

2.0 CONCLUSIONS**2.1 CBC:**

The USA Flood Air Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-3907, comply with flood vent provisions of ASCE 24 referenced in CBC Chapters 16 and 16A and ventilation provisions of CBC Section 1203.3, provided the applicable vents are designed and installed in accordance with the 2012 *International Building Code*® (IBC) provisions noted in the master report and the additional requirements of CBC Chapters 16 and 16A and CBC Section 1203.3, as applicable.

2.2 CRC:

The USA Flood Air Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-3907, comply with flood vent provisions of ASCE 24 referenced in CRC Section R322; and ventilation provisions of CRC Section R408.2, provided the applicable vents are designed and installed in accordance with the 2012 *International Residential Code*® (IRC) provisions noted in the master report and the additional requirements of CRC Sections R408.2 and R322, as applicable.

This supplement expires concurrently with the master report, issued October 2016.

ICC-ES Evaluation Report

ESR-3907 FBC Supplement

Issued October 2016

This report is subject to renewal October 2017.

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:

USA FLOOD AIR VENTS, LTD.
63 PUTNAM STREET, SUITE 202
SARATOGA SPRINGS, NEW YORK 12866
(631) 269-1872
www.usafloodairvents.com
info@usafloodairvents.com

EVALUATION SUBJECT:

USA FLOOD AIR VENTS: MODELS FOSS; FASS; FOAL; FAAL; ROAL

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that USA Flood Air Vents, recognized in ICC-ES master evaluation report ESR-3907, has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2014 Florida Building Code—Building
- 2014 Florida Building Code—Residential

2.0 CONCLUSIONS

The USA Flood Air Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-3907, complies with the Florida Building Code—Building and Florida Building Code—Residential, provided the design and installation are in accordance with the 2012 International Building Code® provisions noted in the master report.

Use of the USA Flood Air Vents has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the Florida Building Code—Building and 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, issued October 2016.