Permit # 19 10437600 B1
Permit # 19 104360 B1

Viktor Romanyuk WCCI - 941-815-8704 Viktor. wcci & mailcom



ICC-ES Evaluation Report

ESR-4332

Reissued March 2020

This report is subject to renewal March 2022.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43-Vents / Foundation Flood Vents

REPORT HOLDER:

SMART PRODUCT INNOVATIONS, INC.

EVALUATION SUBJECT:

FREEDOM FLOOD VENT™ AUTOMATIC FOUNDATION FLOOD VENT: MODEL FFV-1608

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015, 2012, 2009 and 2006 International Building Code® (IBC)
- 2018, 2015, 2012, 2009 and 2006 International Residential Code® (IRC)

Properties evaluated:

- Physical operation
- Water flow
- Weathering

2.0 USES

The model FFV-1608 Freedom Flood Vent™ is used to equalize hydrostatic pressure on walls of enclosures subject to rising or falling floodwaters. With the cover removed, the model FFV-1608 also provides natural air ventilation.

3.0 DESCRIPTION

3.1 General:

The model FFV-1608 Freedom Flood Vent™ is an engineered mechanically operated in-wall flood vent (FV) that automatically allows floodwater to enter an enclosed area and exit. The FV is comprised of a polycarbonate frame with mounting flange and a polycarbonate horizontally pivoting door. When subjected to rising water, the model FFV-1608 Freedom Flood Vent™ door is activated and pivots to allow water and debris to flow in either direction to equalize hydrostatic pressure from one side of the enclosure to the other. The FV features a removable polycarbonate cover. The FV door will activate and pivot when subjected to rising water with or without the polycarbonate cover installed.

3.2 Engineered Opening:

The FV complies with the design principle noted in Section 2.7.2.2 and Section 2.7.3 of ASCE/ SEI 24-14 (2018 and 2015 IBC and IRC) [Section 2.6.2.2 of ASCE/ SEI 24-05 (2012, 2009, 2006 IBC and IRC)] for a maximum rate of rise and fall of 5.0 feet per hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/ SEI 24, Freedom Flood Vent™ FVs must be installed in accordance with Section 4.0 below. See Table 1 for vent size and maximum allowable area coverage for a single vent.

4.0 DESIGN AND INSTALLATION

The model FFV-1608 Freedom Flood Vent™ is designed to be installed into walls or overhead doors of existing or new construction. Installation of the vent 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 Sections 2.7.2.2 and 2.7.3 of ASCE/ SEI 24-14 (2018 and 2015 IBC and IRC) [Section 2.6.2.2 of ASCE/ SEI 24-05 (2012, 2009, 2006 IBC and IRC)], the Freedom Flood Vent™ must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 250 square feet (23.2 m²) of enclosed area.
- Below the base flood elevation.
- With the bottom of the vent located a maximum of 12 inches (305.4 mm) above the higher of the final interior grade or floor and the finished exterior grade immediately under each opening.

5.0 CONDITIONS OF USE

The Freedom Flood Vent™ 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 model FFV-1608 Freedom Flood Vent™ unit must be installed in accordance with this report, the applicable code and the manufacturer's published installation instructions. In the event of a conflict, the instructions in this report shall govern.
- 5.2 The model FFV-1608 Freedom Flood Vent™ unit 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.





5.3 Use of the Freedom Flood Vent as under-floor space ventilation is outside the scope of this report.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015 (editorially revised October 2017).

7.0 IDENTIFICATION

7.1 The Freedom Flood Vent™ model recognized in this report must be identified by a label bearing the manufacturer's name (Smart Product Innovations, Inc.) and the evaluation report number (ESR-4332.).

7.2 The report holder's contact information is the following:

SMART PRODUCT INNOVATIONS, INC.
430 ANDBRO DRIVE, UNIT 1
PITMAN, NEW JERSEY 08071
(800) 507-1527
www.freedomfloodvent.com
info@freedomfloodvent.com

TABLE 1—FREEDOM FLOOD VENT™

	MODEL NAME	MODEL NUMBER	MODEL SIZE	COVERAGE (sq. ft.)	
Ī	Freedom Flood Vent™	FFV-1608	15 ³ / ₄ " X 8 ¹ / ₁₆ "	250	

For SI: 1 inch = 25.4 mm

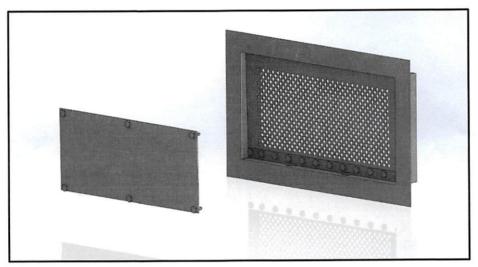


FIGURE 1—MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH COVER REMOVED

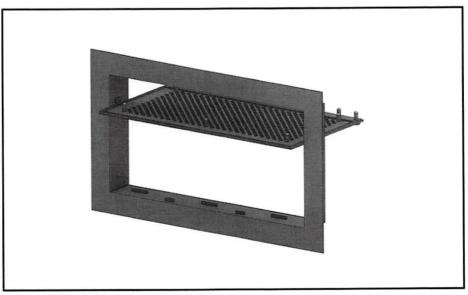


FIGURE 2—MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH FLOOD DOOR PIVOTED OPEN



ICC-ES Evaluation Report

ESR-4332 CBC and CRC Supplement

Reissued March 2020

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43-Vents / Foundation Flood Vents

REPORT HOLDER:

SMART PRODUCT INNOVATIONS, INC.

EVALUATION SUBJECT:

FREEDOM FLOOD VENT™ AUTOMATIC FOUNDATION FLOOD VENT: MODEL FFV-1608

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, recognized in ICC-ES master evaluation report ESR-4332, has also been evaluated for compliance with codes noted below.

Applicable code edition(s):

- 2016 California Building Code (CBC)
- 2016 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in Sections 2.0 through 7.0 of the master evaluation report ESR-4332, complies with CBC Chapters 12, 16 and 16A, provided the design and installation are in accordance with the 2015 International Building Code® (2015 IBC) provisions noted in the master report and the additional requirements of 12, 16, and 16A, as applicable.

The product recognized in this supplement has not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.2 CRC:

The Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in Sections 2.0 through 7.0 of the master evaluation report ESR-4332, complies with the 2016 CRC, provided the design and installation are in accordance with the 2015 International Residential Code® (2015 IRC) provisions noted in the master report.

The product recognized in this supplement has not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The product recognized in this supplement has not been evaluated for compliance with the International Wildland-Urban Interface Code®.

This supplement expires concurrently with the evaluation report, reissued March 2020.





ICC-ES Evaluation Report

ESR-4332 FBC Supplement

Reissued March 2020

This report is subject to renewal March 2022.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43-Vents / Foundation Flood Vents

REPORT HOLDER:

SMART PRODUCT INNOVATIONS, INC.

EVALUATION SUBJECT:

FREEDOM FLOOD VENT™ AUTOMATIC FOUNDATION FLOOD VENT: MODEL FFV-1608

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, recognized in ICC-ES master evaluation report ESR-4332, has 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 Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in Sections 2.0 through 7.0 of the master evaluation report ESR-4332, complies with the *Florida Building Code—Building and the Florida Building Code—Residential*, provided the design and installation are in accordance with the *International Building Code®* (IBC) provisions noted in the master report.

Use of the Freedom Flood Vent[™] Automatic Foundation Flood Vent: Model FFV-1608 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 evaluation report, reissued March 2020.



U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

OMB No. 1660-0008 Expiration Date: November 30, 2022

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 INSUF	ANCE COMPANY USE	
A1. Building Owner's Name West Coast Contracting						Policy Num	per:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1561 Rossanne Place						Company N	AIC Number:	
City	**************************************							
Englewood Florida 34223								
	A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 15, Burnswood Subdivision, Sarasota County, Florida							
A4. Building Use (e.g., Residen	itial, Non-Residential, A	\ddition,	Accessory, e	tc.) <u>Resident</u>	<u>tial</u>		
A5. Latitude/Longi	ude: Lat. 2	<u>:6°56'49.6" N.</u>	.ong. <u>08</u>	2°20'28.3" V	<u>V.</u> Horizontal	Datum: NAD	1927 🛛 NAD 1983	
A6. Attach at least	2 photograpl	hs of the building if the	Certifica	te is being us	ed to obtain flood	insurance.		
A7. Building Diagr	am Number	<u>1B</u>						
A8. For a building	with a crawls	pace or enclosure(s):						
a) Square foo	age of crawls	space or enclosure(s)	<u>N/A</u>	sq ft				
b) Number of	permanent flo	ood openings in the cra	wispace	or enclosure	(s) within 1.0 foot a	above adjacent grad	le <u>N/A</u>	
c) Total net ar	ea of flood op	penings in A8.b	<u>N/A</u>	sq in				
d) Engineered	flood openin	igs? ☐ Yes 🗵	No					
A9. For a building v	<i>i</i> ith an attach	ed garage:						
a) Square foo	age of attach	ned garage <u>466</u> sq f	it					
b) Number of	ermanent flo	ood openings in the atta	ached ga	arage within 1	.0 foot above adjac	cent grade	<u>4</u>	
c) Total net ar	ea of flood op	penings in A9.b <u>*See</u>	: Comm	ents* 1000	sq in			
d) Engineered	flood openin	gs? 🛛 Yes 🗌	No					
	SI	ECTION B - FLOOD I	NSURA	NCE RATE	MAP (FIRM) INF	ORMATION		
B1. NFIP Commur	ity Name & 0	Community Number		B2. County	Name		B3. State	
S	arasota Co	unty 125144			Sarasota		Florida	
B4. Map/Panel	B5. Suffix	B6. FIRM Index		RM Panel	B8. Flood	B9. Base Flood E		
Number	_	Date		ective/ vised Date	Zone(s)	(Zone AO, use	e Base Flood Depth) 11 Feet	
12115C-0454 F 11/04/2016 11/04/2016 AE								
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:								

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corresponding i	OR INSURA	NCE COMPANY USE						
Building Street Address (including Apt., Unit, Suite, and/or In 1561 Rossanne Place	olicy Numbe	r:						
City State Englewood Florida	ZIP Co	ode 342	23	C	Company NAI	C 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 N.G.S. P-734 Vertical Datum: N.A.V.D. 88								
	Indicate elevation datum used for the elevations in items a) through h) below.							
Datum used for building elevations must be the same	as that used fo	or the BF	E.					
 a) Top of bottom floor (including basement, crawlspab) b) Top of the next higher floor c) Bottom of the lowest horizontal structural member d) Attached garage (top of slab) e) Lowest elevation of machinery or equipment service (Describe type of equipment and location in Commf) f) Lowest adjacent (finished) grade next to building (g) g) Highest adjacent (finished) grade next to building (g) 	(V Zones only) cing the buildin nents) (LAG))		12.6 N/A N/A 9.8 12.2 9.4 9.9	Check the check the feet feet feet feet feet feet feet f	meters meters meters meters meters meters		
h) Lowest adjacent grade at lowest elevation of deck		dina			_	_		
structural support				9.8	⊠ feet	☐ meters		
SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION								
I certify that the information on this Certificate represents statement may be punishable by fine or imprisonment und	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 lic			⊠ Yes	□ No		k here if attachments.		
Certifier's Name Alan K. Fish, PSM	License Numi	ber LS 39	941					
Title Professional Surveyor & Mapper						Place		
Company Name Van Buskirk / Fish & Associates, Inc.						Seal		
Address 12450 Tamiami Trail		*****				Here		
City North Port	State Florida		ZIP Code 34287					
Signature	Date 2/25/21		Telephone (941) 42	26-0681	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) *In item A9. c) The Vent covers are engineered made by Freedom Flood Vent TM. model# FFV-1608 in the Garage Wall all are rated at 250 sq in each (ICC-ES Report ESR-4332 is attached). Total vent area= 1000 sq in.*. Elevation in item C2 e) is the water heater, the A/C Pad elevation is at 12.6 feet. Information provided in this Elevation Certificate is based on the building conditions at time of survey. Any building revisions affecting the items reported in this Certificate will require an updated Elevation Certificate. Job# 18-1485								
JOD# 18-1485								

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2022

ELEVATION CLIVIII IOATE							
IMPORTANT: In these spaces, copy the corres	FOR INSURANCE COMPANY USE						
Building Street Address (including Apt., Unit, Suit 1561 Rossanne Place	Policy Number:						
City	State	ZIP Code	Company NAIC Number				
Englewood	Florida	34223					
SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)							
For Zones AO and A (without BFE), complete Ite complete Sections A, B,and C. For Items E1 only, enter meters.	ms E1–E5. If the Certificate –E4, use natural grade, if a	e is intended to support a available. Check the mea	LOMA or LOMR-F request, surement used. In Puerto Rico				
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, or enclosure) is 	crawlspace, <u>N/A</u>	☐ feet ☐ meters	above or Delow the HAG.				
 b) Top of bottom floor (including basement, crawlspace, or enclosure) is 	<u>N/A</u>	☐ feet ☐ meters					
E2. For Building Diagrams 6-9 with permanent f	lood 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	<u>N/A</u>	☐ feet ☐ meters	above or ☐ below the HAG.				
E3. Attached garage (top of slab) is	<u>N/A</u>	☐ feet ☐ meters	above or Delow the HAG.				
E4. Top of platform of machinery and/or equipment servicing the building is	ent <u>N/A</u>	☐ feet ☐ meters	above or ☐ below the HAG.				
E5. Zone AO only: If no flood depth number is a floodplain management ordinance?	vailable, is the top of the boss \square No \square Unknown.	ottom floor elevated in ac The local official must o	cordance with the community's ertify this information in Section G.				
SECTION F - PROPERT	Y OWNER (OR OWNER'S	REPRESENTATIVE) C	ERTIFICATION				
The property owner or owner's authorized repres community-issued BFE) or Zone AO must sign h	entativo who completes S	actions A B and E for 7	one A (without a FFMA-issued or				
Property Owner or Owner's Authorized Represe							
Address City State ZIP Code							
Signature	Dat	e Te	lephone				
Comments							
Comments							
÷							
JOB# 18-1485			☐ Check here if attachments.				

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corre	FOR INSURA	ANCE COMPANY USE					
Building Street Address (including Apt., Unit, St 1561 Rossanne Place	O. Route and Box N	o.	Policy Number	er:			
City Englewood	State Florida	ZIP Code 34223		Company NA	AIC 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 tak engineer, or architect who is authoriz data in the Comments area below.)	engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation						
G2. A community official completed Section or Zone AO.	on E for a building located	in Zone A (without a	FEMA	-issued or cor	mmunity-issued BFE)		
G3. The following information (Items G4-	G10) is provided for comm	nunity floodplain man	ageme	ent purposes.			
G4. Permit Number	G5. Date Permit Issued			ate Certificate compliance/Oc	e of ccupancy Issued		
G7. This permit has been issued for:	☐ New Construction ☐ S	Substantial Improvem	ent				
G8 Elevation of as-built lowest floor (including of the building:	g basement)		☐ feet	t 🗌 meters	Datum		
G9. BFE or (in Zone AO) depth of flooding at	the building site:	[feet	t 🔲 meters	Datum		
G10. Community's design flood elevation:		[feet	t 🔲 meters	Datum		
Local Official's Name	Tit	е					
Community Name	Те	lephone					
Signature	Da	te					
Comments (including type of equipment and loa	cation, per C2(e), if applica	able)					
JOB# 18-1485				□ ci	neck here if attachments.		

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2022

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.

1561 Rossanne Place

City
State
Englewood

State
Florida

State
State
Florida

State
State
Florida

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 1 Caption Front View Date Taken 2/25/21



Photo 2 Caption

Rear View

JOB# 18-1485

Date Taken 11/25/20

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

OMB No. 1660-0008

Continuation Page

Expiration Date: November 30, 2022

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. 1561 Rossanne Place						
State Florida	ZIP Code 34223	Company NAIC Number				
۰	Apt., Unit, Suite, and/or Bldg. No.)	Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. State ZIP Code				

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.

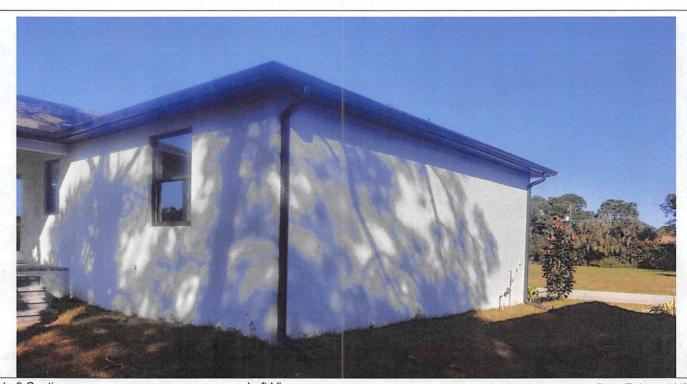


Photo 3 Caption Left View Date Taken 11/25/20



Photo 4 Caption Right View JOB# 18-1485 Date Taken 2/25/21

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2022

ELL VALIDIT OLIVINI TOATE	Expiration Date. November 30, 2022		
IMPORTANT: In these spaces, copy the co	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit 1561 Rossanne Place	Policy Number:		
	\\\\\		
City	State	ZIP Code	Company NAIC Number
Englewood	Florida	34223	

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 5 Caption (Typ) Garage wall Flood Vents JOB# 18-1485 Date Taken 2/25/21