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 INSUR	RANCE COMPANY USE	
A1. Building Owner's Name					Policy Numb	oer:	
James E. Henders	on & Bethan	y D. Henderson					
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Company NAIC Number:						AIC Number:	
2357 Mayberry Ro	ad						
City				State	1	ZIP Code	
Westminster		18/ 18/ 1		Maryland		21158	
		ind Block Numbers, Ta ircel 7 Account No.			gal Description, etc	5.)	
		ntial, Non-Residential,			etc.) Residential		
A5. Latitude/Longit				7°06'01.01"		Datum: ☐ NAD 1	927 X NAD 1983
	-	hs of the building if the	_				
A7. Building Diagra		<u>-</u>		ato 10 2011.19 a			
		space or enclosure(s):					
		space or enclosure(s)		4	690.00 sq ft		
	-	ood openings in the cra	13-			above adjacent gra	ndo -
		penings in A8.b				above adjacent gra	<u>7</u>
				840.00 sq in			
d) Engineered			10				
A9. For a building v	vith an attach	ned garage:					×
a) Square foot	age of attach	ned garage		940.00 ^{sq ft}			
b) Number of p	ermanent flo	ood openings in the at	tached g	arage within	1.0 foot above adja	acent grade 0	
c) Total net are	ea of flood o	penings in A9.b		0.00 sq	in		
d) Engineered	flood openin	ngs? ☐ Yes ☒ N	lo				
	SE	ECTION B - FLOOD I	NSURA	NCE RATE	MAP (FIRM) INF	ORMATION	
B1. NFIP Commun	ty Name & 0	Community Number		B2. County	Name		B3. State
				Carroll Cou	nty		Maryland
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	RM Panel ective/ vised Date	B8. Flood Zone(s)	B9. Base Flood E (Zone AO, use	levation(s) e Base Flood Depth)
24013C0075	D	08-01-1978	10-02-		А	486.80	
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: _ Carroll County							
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 X NAVD 1988 Other/Source:							
B12. Is the building	g located in a	a Coastal Barrier Reso	urces Sy	stem (CBRS) area or Otherwis	e Protected Area (C	DPA)? ☐ Yes ☒ No
Designation I	Date:	П	CBRS	□ ОРА			

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding	FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, Suite, and/or	Policy Number:			
2357 Mayberry Road				
City	e ZIP C	Code	Company NAIC Number	
Westminster Mary	yland 2115	8		
SECTION C – BUILDING ELE	EVATION INFORMATI	ON (SURVEY RE	EQUIRED)	
C1. Building elevations are based on: Construction	n Drawings* 🔲 Build	ing Under Constru	ction* X Finished Construction	
*A new Elevation Certificate will be required when co	nstruction of the buildin	g is complete.	_	
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), \ Complete Items C2.a–h below according to the build	/E, V1–V30, V (with BF ing diagram specified in	E), AR, AR/A, AR/ Item A7. In Puert	AE, AR/A1–A30, AR/AH, AR/AO. o Rico only, enter meters.	
Benchmark Utilized: Carroll County Control Disc M-2	Vertical Datum:	483 85		
Indicate elevation datum used for the elevations in ite				
☐ NGVD 1929 区 NAVD 1988 ☐ Other/S	3 3			
Datum used for building elevations must be the same		E.		
			Check the measurement used.	
a) Top of bottom floor (including basement, crawlspa	ace, or enclosure floor)		IRF Q X feet meters	
b) Top of the next higher floor			Q5.4 X feet meters	
c) Bottom of the lowest horizontal structural member	r (V Zones only)		feet meters	
d) Attached garage (top of slab)			80 2 X feet meters	
e) Lowest elevation of machinery or equipment serv (Describe type of equipment and location in Comr	icing the building ments)		87.2 feet meters	
f) Lowest adjacent (finished) grade next to building	(LAG)		85.5 feet meters	
g) Highest adjacent (finished) grade next to building		1	g2 7 feet meters	
h) Lowest adjacent grade at lowest elevation of decl			□ foot □ ===tem	
SECTION D – SURVEYOR,				
This certification is to be signed and sealed by a land sun I certify that the information on this Certificate represents statement may be punishable by fine or imprisonment und	my best efforts to interp	ret the data availa	law to certify elevation information. ble. I understand that any false	
Were latitude and longitude in Section A provided by a lice	ensed land surveyor?	⊠Yes □No	□ Check here if attachments.	
Certifier's Name	License Number		MARY M. LAND	
Scott M. Landis	21613	TI (C)	MARKING MARKING	
Title			MARY M. LA. P.	
Professional Land Surveyor				
Company Name			84 * 80	
BPR LLC			HE LEGISLATION OF THE SECOND S	
Address			2. 300	
150 Airport Drive, Unit 4	01-1-	710.0-1-	216	
City Westminster	State Maryland	ZIP Code 21157	AL LANGUE	
the contraction of the characters and the characters are contracted as the characters are contracte	·			
Signature Seath. Indis	Date 7/28/2023	Telephone (410) 857-9030	Ext. 4	
Copy all pages of this Elevation Certificate and all attachmen	nts for (1) community offi	icial, (2) insurance	agent/company, and (3) building owner.	
Comments (including type of equipment and location, per	C2(e), if applicable)			
Type of equipment servicing the building are: 1. Hot Water Heater (Bottom Elevation=487.2) - Located in Basement 2. Sprinkler Holding Tank (Bottom Elevation=487.2) - Located in Basement 3. Furnace (Bottom Elevation=487.2) - Located in Basement 4. Air Conditioning Units (Bottom Elevation=489.5) - Located outside Basement 5. (7) Flood Freedom Vent, Model FFV-1608, Polycarbonate Plastic, 8"x15" Opening, Bottom Elevation=486.06				

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding information from Section A.					
nd/or Bldg. No.) or P.O. Route	and Box No.	Policy Number:			
	V4.10V.07	Company NAIC Number			
		REQUIRED)			
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.					
d check the appropriate boxest adjacent grade (LAG).	s to show whethe	r the elevation is above or below			
[feet meter	s above or below the HAG.			
	☐ feet ☐ meter	s above or below the LAG.			
openings provided in Section	A Items 8 and/or	9 (see pages 1–2 of Instructions),			
	☐ feet ☐ meter	rs above or below the HAG.			
[☐ feet ☐ meter	rs above or below the HAG.			
	☐ feet ☐ meter	s above or below the HAG.			
VNER (OR OWNER'S REPRE	SENTATIVE) C	ERTIFICATION			
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.					
e's Name					
City		ate ZIP Code			
Westminste		aryland 21157			
Date		lephone 10) 857-9030			
	State ZIP Command	State ZIP Code Maryland 21158 LEVATION INFORMATION (SURVEY NOT NE AO AND ZONE A (WITHOUT BFE) 11–E5. If the Certificate is intended to support a natural grade, if available. Check the measure decided to support and tural grade (LAG).			

☐ Check here if attachments.

ELEVATION CERTIFICATE

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

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.	Policy Number:
2357 Mayberry Road	
City State ZIP Code	Company NAIC Number
Westminster Maryland 21158	
SECTION G - COMMUNITY INFORMATION (OPTIONAL)	
The local official who is authorized by law or ordinance to administer the community's floodplain ma Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign used in Items G8–G10. In Puerto Rico only, enter meters.	nagement ordinance can complete n below. Check the measurement
G1. The information in Section C was taken from other documentation that has been signed a engineer, or architect who is authorized by law to certify elevation information. (Indicate the data in the Comments area below.)	
G2. A community official completed Section E for a building located in Zone A (without a FEM or Zone AO.	A-issued or community-issued BFE)
G3. The following information (Items G4–G10) is provided for community floodplain managem	ent purposes.
	Date Certificate of
BP-15-0777 6/9/20	Compliance/Occupancy Issued ノの / る / とつ
G7. This permit has been issued for: New Construction Substantial Improvement	,
G8. Elevation of as-built lowest floor (including basement) 985.9 feet	meters Datum MAVD 88
G9. BFE or (in Zone AO) depth of flooding at the building site:	t ☐ meters Datum
G10. Community's design flood elevation:	t ☐ meters Datum _ N
Local Official's Name Patrich Varya (FM Environmenta)	Zevren Sypervison
Community Name Cany County MD Signature Telephone 410-386-28	
Signature Date 7/31/23 Comments (including type of equipment and location, per C2(e), if applicable)	
Comments (including type of equipment and location, per C2(e), if applicable)	
See a Hacked sheety (4) for ICC-ES Report Fo	+ Freed on Flord Vent
information - 250sf per vant x 7 vents = 1750sl	7 1690sf of lowert
Floor	
See sheets Elf for other photos	PATRICK L.J. VARGA US-15-08711 MANAGER
	☐ Check here if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

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

IMPORTANT: In these spaces, copy	FOR INSURANCE COMPANY USE		
Building Street Address (including Apr	Policy Number:		
2357 Mayberry Road			
City	State	ZIP Code	Company NAIC Number
Westminster	Maryland	21158	

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 Caption Front of House 4/11/23

Clear Photo One



Photo Two Caption Right Side of House 4/11/23

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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

IMPORTANT: In these spaces, copy t	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt.	Policy Number:		
2357 Mayberry Road			
City	State	ZIP Code	Company NAIC Number
Westminster	Maryland	21158	

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.

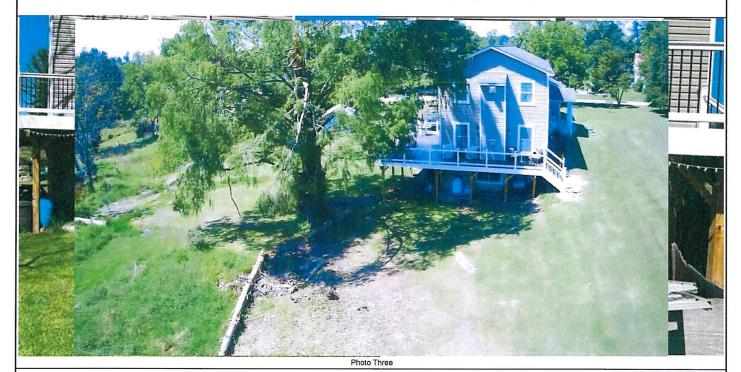


Photo Three Caption Rear of House 4/11/23

Clear Photo Three



Photo Four Caption Left side of House 4/11/23

Clear Photo Four









Reissued March 2022

- I-Codes provide recognition in all 50 states
- Specialty code recognition

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This report is subject to renewal March 2024.

ICC-ES Evaluation Report

ESR-4332

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:

- 2021, 2018, 2015, 2012, 2009 and 2006 International Building Code® (IBC)
- 2021, 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 (2021, 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 (2021, 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 February 2021).

7.0 IDENTIFICATION

7.1 The Freedom Flood Vent™ model described 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.co

TABLE 1—FREEDOM FLOOD VENT™

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

For SI: 1 inch = 25.4 mm

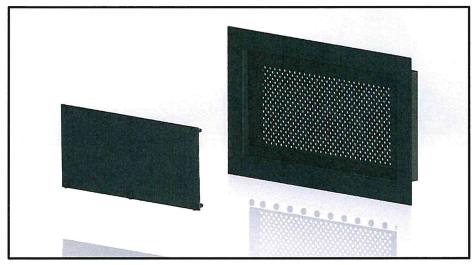


FIGURE 1—MODEL FFV-1608 FREEDOM FLOOD VENT™: SHOWN WITH COVER REMOVED



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 2022

This report is subject to renewal March 2024.

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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, described in ICC-ES evaluation report ESR-4332, has also been evaluated for compliance with codes noted below.

Applicable code editions:

■ 2019 California Building Code (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

■ 2019 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 evaluation report ESR-4332, complies with CBC Chapter 12 provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 12 and 16, as applicable.

- 2.1.1 OSHPD: The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.
- 2.1.2 DSA: The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Freedom Flood Vent™ Automatic Foundation Flood Vent: Model FFV-1608, described in Sections 2.0 through 7.0 of the evaluation report ESR-4332, complies with the 2019 CRC, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report.

This supplement expires concurrently with the evaluation report, reissued March 2022.







ICC-ES Evaluation Report

ESR-4332 FBC Supplement

Reissued March 2022

This report is subject to renewal March 2024.

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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, described in ICC-ES evaluation report ESR-4332, has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2020 Florida Building Code—Building
- 2020 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 evaluation report ESR-4332, complies with the *Florida Building Code—Building* and the *Florida Building Code—Building Co*

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 61G20-3, 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 2022.







BUILDING PHOTOGRAPHS

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

ELEVATION CERTIFICATE

Continuation Page

IMPORTANT: In these spaces, co	FOR INSURANCE COMPANY USE		
Building Street Address (including 2357 Mayberry Road	Apt., Unit, Suite, and/or Bldg. No.) o	r P.O. Route and Box No	. Policy Number:
City	State	ZIP Code	Company NAIC Number
Westminster	Alabama	21158	

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 Rear of House 4/11/23

Clear Photo Three



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FEMA-Elevation Cert-2357 Mayberry-230728-Signed.pdf

Expiration Date. November 30, 2022

	AND MARKET USBARRAS CONTRACTOR AND THE PROPERTY OF THE PROPERT	COLOR SECTION CONTROL SECTION	Expiration Date. Hereinber 65, 2022
IMPORTANT: In these spaces, cop	FOR INSURANCE COMPANY USE		
Building Street Address (including A 2357 Mayberry Road	pt., Unit, Suite, and/or Bldg. No.) or F	O. Route and Box N	o. Policy Number:
City	State	ZIP Code	Company NAIC Number
Westminster	Alabama	√ 21158	

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.





Clear Photo One



7 of 18

