#### 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.

	SECT	TON A - PROPERTY	INFOR	WATION		FOR INSUE	RANCE COMPANY USE
A1. Building Owner's Name					Policy Num		
Carolyn Richmond							
A2. Building Street Address (including Apt., Unit, Sulte, and/or Bldg. No.) or P.O. Route and Box No.  127 Calhoun Street						Company N	NAIC Number:
City				State		ZIP Code	
Alderson				West Virg	ginia	24910	
		nd Block Numbers, Ta Addition to North Alder					
A4. Building Use (e	e.g., Residen	tial, Non-Residential,	Addition,	Accessory, e	etc.) Residentia	1	
A5. Latitude/Longit				).847024W.		Datum: NAD	1927 🔀 NAD 1983
A6. Attach at least	2 photograpi	hs of the building if the	e Certific	ate is being u		_	
A7. Building Diagra							
A8. For a building	with a crawls	pace or enclosure(s):					
		space or enclosure(s)		_ 1	092.00 sq ft		
b) Number of p	ermanent flo	ood openings in the ca				above adiacent on	ade 8
			-	024.00 sq in			-
,		gs? 🛛 Yes 🔲 N					
A9. For a building v			10				
a) Square foot				N/A sa ft			
' '	•					and and a	
		ood openings in the att			•	icent grade U	
c) Total net are	a of flood op	penings in A9.b		ps 00.0	in		
d) Engineered	flood openin	gs? ☐ Yes ⊠ N	lo				
	SE	CTION B - FLOOD I	NSURA	NCE RATE	MAP (FIRM) INF	DRMATION	
B1. NFIP Communi	ty Name & C	Community Number		B2. County	Name		B3. State
Town of Alderson,	<b>/// 54004</b> 1			Greenbrier			West Virginia
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, us	Elevation(s) se Base Flood Depth)
54063C0007	С	06-17-2002	06-17-2		AE	1551.0	
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 X NAVD 1986 Other/Source:							
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwisa Protected Area (OPA)?  Yes 🔀 No							
				•	) area or Otherwis	e Froiecied Area (	UFAJ! [] TES [X] NO
Designation I	Jate:		CBRS	☐ OPA			
FEMA Form 088-0-33	(12/19)	R	enlares	all previous e	ditions		Form Page 1 of 6

## **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 US Building Stend Address (including Apt., Unit, Suite, and or Bidg. No.) or P.O. Route and Box No.   Policy Number:							
Stete   ZIP Code   Company NAIC Number	MPORTANT: In these spaces, copy the cor	responding information from Sect	ion A.	OR INSURANCE COMPANY USE			
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)		Suite, and/or Bldg. No.) or P.O. Rout	e and Box No.	<sup>oli</sup> cy Number:			
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)  C1. Building elevations are based on:				ompany NAIC Number			
C1. Building elevations are based on:	Alderson	West Virginia 2491	·				
*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, ARIA ARIAE, ARIA1–A30, ARIAH, ARIAO. Complete thems C2.e-h below according to the building diagram specified in Item A7. In Pretro Rico only, enter meters.  Benchmark Utilized: Survey grade GPS on site	SECTION C BU	ILDING ELEVATION INFORMATI	ON (SURVEY REQ	(UIRED)			
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, ARIAE, ARIA1–A30, ARIAH, ARIAO. Complete tiems c2.a-in below according to the building diagram specified in item A7. In Puerto Rico only, enter meters.  Benchmark Utilized: Survey grade GPS on site  Vertical Deturi. NAVD8  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, crawfespace, or enclosure floor)  b) Top of the next higher floor  c) Bottom of the lowest horizontal structural member (V Zones only)  d) Attached garage (top of slab)  e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)  f) Lowest adjacent (finished) grade next to building (LAG)  g) Highest adjacent (finished) grade next to building (LAG)  b) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support  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 or this Certificate erpressents my best efforts in interport the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.  Certifier's Name  William R. Gunnoe, RPS  Date  Tile  Tile  Tile  Sitate  ZIP Code  West Virginia  ZiP Code  John School Section 1001.  Comments (Including type of equipment and location, per C2(e), if applicable)  Independent on the height requirements of 10-29-2020 (304) 548-5324	_		•	on* Finished Construction			
Benchmark Utilized: Survey grade GPS on site  Indicate elevation datum used for the elevations in items a) through h) below.    NoVD 1929   NaVD 1988   Other/Source:   Datum used for building elevations must be the same as that used for the BFE.	•		•	E, AR/A1-A30, AR/AH, AR/AO.			
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, crawlepace, or enclosure floor)   1544.6	Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.						
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)  b) Top of the next higher floor  c) Bottom of the lowest horizontal structural member (V Zones only)  d) Attached garage (top of slab)  e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)  f) Lowest adjacent (finished) grade next to building (LAG)  h) Lowest adjacent (finished) grade next to building (HAG)  h) Lowest adjacent (finished) grade next to building (HAG)  h) Lowest adjacent (finished) grade next to building (HAG)  h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support  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 cartify elevation information information in certification 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?   Were latitude and longitude in Section A provided by a licensed land surveyor?   Tritle  Registered Professional Surveyor  Company Name  Gunnoe Surveying & Mapping  Address  P.O. Box 1172  City  Clip Clendenin  Date  Telephone  State  Telep	Indicate elevation datum used for the ele	evations in items a) through h) below	1.				
Attached garage (top of slab)    Check the measurement used.	☐ NGVD 1929  ☐ NAVD 1988	Other/Source:					
a) Top of bottom floor (including basement, crawlspace, or enclosure floor) b) Top of the next higher floor c) Bottom of the lowest horizontal structural member (V Zones only) d) Attached garage (top of slab) e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) f) Lowest adjacent (finished) grade next to building (LAG) g) Highest adjacent (finished) grade next to building (LAG) h) Lowest adjacent (finished) grade next to building (HAG) h) Lowest adjacent (finished) grade next to building (HAG) h) Lowest adjacent (finished) grade next to building (HAG) h) Lowest adjacent (finished) grade next to building (HAG) h) Lowest adjacent (finished) grade next to building (HAG) h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support  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 for this Certificate represents my best efforts to interpret the data available. I understand that any faise statement may be purishable by fine or imprisonment under 18 U.S. Code, Section 1001.  Were latitude and longitude in Section A provided by a licensed land surveyor?    Vere   No   Check here if attachments.	Datum used for building elevations mus	t be the same as that used for the Bi	<b>=</b> E.	Charle the measurement used			
b) Top of the next higher floor  c) Bottom of the lowest horizontal structural member (V Zones only)  d) Attached garage (top of slab)  e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)  f) Lowest adjacent (finished) grade next to building (LAG)  g) Highest adjacent (finished) grade next to building (HAG)  h) Lowest adjacent (finished) grade next to building (HAG)  feet meters  g) Highest adjacent (finished) grade next to building (HAG)  h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support  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 1701.  Were latitude and longitude in Section A provided by a licensed land surveyor?  Were latitude and longitude in Section A provided by a licensed land surveyor?  Company Name Gunnoe, RPS  Sol  Signature  Date  Telephone (304) 548-5324  Copy all pages of this Elevation Cartificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own  Comments (including type of equipment and location, per C2(e), if applicable) leters as en elevated in accordance with the height requirements of	a) Ton of hottom floor (including baser	nent mawlenace or enclosure floor)	154				
c) Bottom of the lowest horizontal structural member (V Zones only)  d) Attached garage (top of slab)  e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)  f) Lowest adjacent (finished) grade next to building (LAG)  g) Highest adjacent (finished) grade next to building (HAG)  h) Lowest adjacent (finished) grade next to building (HAG)  h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support  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 or 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?  Were latitude and longitude in Section A provided by a licensed land surveyor?  Certifier's Name  William R. Gunnoe, RPS  801  Title  Registered Professional Surveyor  Company Name  Gunnoe Surveying & Mapping  Address  P.O. Box 1172  City  City  City  State  U-29-2020  Company Name  Gunnoe field in Section A provided by a licensed land surveyor?  Date  10-29-2020  Telephone  10-29-2020  Cody all pages of this Elevation Cartificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own  Comments (including type of equipment and location, per C2(e), if applicable)  Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of	, , ,	ioni, d'amapace, di endosare noor,					
d) Attached garage (top of stab)  e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)  f) Lowest adjacent (finished) grade next to building (LAG)  g) Highest adjacent (finished) grade next to building (HAG)  h) Lowest adjacent (finished) grade next to building (HAG)  h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support  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?  Were latitude and longitude in Section A provided by a licensed land surveyor?  Company Name  Gunnoe, RPS  801  Title  Registered Professional Surveyor  Company Name  Gunnoe Surveying & Mapping  Address  P.O. Box 1172  City  Clendenin  Signature  Date  10-29-2020  10-49-2020  10-49-2020  10-49-8-5324  Copy all pages of this Elevation Cartificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own  Comments (including type of equipment and location, per C2(e), if applicable)  Item B9 - base flood elevation shown is from FiRM. Subject dwelling has been elevated in accordance with the height requirements of		third momber (1/ Zongo anhi)					
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)  f) Lowest adjacent (finished) grade next to building (LAG)  g) Highest adjacent (finished) grade next to building (HAG)  h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support  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 or this Certificate represents my best efforts to interpret the data aveilable. 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?  Were latitude and longitude in Section A provided by a licensed land surveyor?  Were latitude and longitude in Section A provided by a licensed land surveyor?  Certifier's Name  William R. Gunnoe, RPS  801  Title  Registered Professional Surveyor  Company Name  Gunnoe Surveying & Mapping  Address  P.O. Box 1172  City  State  Understand that any false  Ext.  Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance egent/company, and (3) building own  Comments (including type of equipment and location, per C2(e), if applicable)  Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of	•	cural member (v Zones only)					
(Describe type of equipment and location in Comments)    1594.1     1694.6   1694.6     1694.6     1694.6     1694.6     1694.6     1694.6   1694.6     1694.6     1694.6     1694.6     1694.6     1694.6   1694.6     1694.6     1694.6     1694.6     1694.6     1694.6   1694.6     1694.6     1694.6     1694.6     1694.6     1694.6   1694.6     1694.6     1694.6     1694.6     1694.6     1694.6   1694.6     1694.6     1694.6     1694.6     1694.6     1694.6   1694.6     1694.6     1694.6     1694.6     1694.6     1694.6   1694.6     1694.6     1694.6     1694.6     1694.6     1694.6   1694.6     1694.6     1694.6     1694.6     1694.6     1694.6   1694.6     1694.6     1694.6     1694.6     1694.6     1694.6   1694.6     1694.6     1694.6     1694.6     1694.6     1694.6   1694.6     1694.6     1694.6     1694.6     1694.6     1694.6   1694.6     1694.6     1694.6     1694.6     1694.6     1694.6   1694.6     1694.6     1694.6     1694.6     1694.6     1694.6   1694.6     1694.6     1694.6     1694.6     1694.6     1694.6   1694.6     1694.6   1694.6   1694.6   1694.6   1694.6   1694.6   1694.6   1694.6   1694.6   1694.6   1694.6   1694.6   1694.6   1				The less include			
g) Highest adjacent (finished) grade next to building (HAG)  h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support  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 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?  Were latitude and longitude in Section A provided by a licensed land surveyor?  Were latitude and longitude in Section A provided by a licensed land surveyor?  Certifier's Name  William R. Gunnoe, RPS  17itle  Registered Professional Surveyor  Company Name  Gunnoe Surveying & Mapping  Address  P.O. Box 1172  City  State  West Virginia  Signature  Date  10-29-2020  Telephone  (304) 548-5324  Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own  Comments (including type of equipment and location, per C2(e), if applicable) them B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of			155	4.1 Feet meters			
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support  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 (certify that the information on this Certificate represents my best efforts to interpret the date 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?  Certifier's Name  William R. Gunnoe, RPS  Bo1  Title Registered Professional Surveyor  Company Name Gunnoe Surveying & Mapping  Address P.O. Box 1172  City  City  City  City  State  West Virginia  ZIP Code West Virginia  ZiP Code (304) 548-5324  Copy all pages of this Elevation Cartificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own  Comments (including type of equipment and location, per C2(e), if applicable)  Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of	f) Lowest adjacent (finished) grade ne	xt to building (LAG)	154	14.6 ⊠ feet ☐ 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?  Were latitude and longitude in Section A provided by a licensed land surveyor?  Certifier's Name  License Number  William R. Gunnoe, RPS  801  Title  Registered Professional Surveyor  Company Name  Gunnoe Surveying & Mapping  Address  P.O. Box 1172  City  City  City  Clendenin  State  Use Telephone  10-29-2020  (304) 548-5324  Copy all pages of this Elevation Cartificate and all attachments for (1) community official, (2) insurance egent/company, and (3) building own  Comments (including type of equipment and location, per C2(e), If applicable)  Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of	g) Highest adjacent (finished) grade ne	ext to bullding (HAG)	154	15.6 🛛 feet 🗌 meters			
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information it 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.  Certifler's Name  William R. Gunnoe, RPS  Title  Registered Professional Surveyor  Company Name  Gunnoe Surveying & Mapping  Address  P.O. Box 1172  City  City  State  West Virginia  Signature  Date  10-29-2020  Telephone  (304) 548-5324  Copy all pages of this Elevation Cartificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own  Comments (including type of equipment and location, per C2(e), if applicable)  Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of		vation of deck or stairs, including	154	14.0 X feet  meters			
Control 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.    Certifler's Name	SECTION D - S	URVEYOR, ENGINEER, OR ARC	HITECT CERTIFIC	ATION			
Were latitude and longitude in Section A provided by a licensed land surveyor?  Certifler's Name William R. Gunnoe, RPS  B01  Title Registered Professional Surveyor  Company Name Gunnoe Surveying & Mapping  Address P.O. Box 1172  City Clendenin  State West Virginia  ZIP Code Clendenin  Date 10-29-2020  (304) 548-5324  Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own  Comments (including type of equipment and location, per C2(e), If applicable) Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of	I certify that the information on this Certificat	te represents my best efforts to inten-	pret the data available	aw to certify elevation information. e. I understand that any false			
Copy all pages of this Elevation Cartificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own Comments (including type of equipment and location, per C2(e), If applicable) Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of			⊠Yes □No	_			
Copy all pages of this Elevation Cartificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own Comments (including type of equipment and location, per C2(e), If applicable) Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of				Mullittee			
Copy all pages of this Elevation Cartificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own Comments (including type of equipment and location, per C2(e), If applicable) Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of	Title Registered Professional Surveyor						
Copy all pages of this Elevation Cartificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own Comments (including type of equipment and location, per C2(e), If applicable) Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of	, ,			MOLAGE THE			
Copy all pages of this Elevation Cartificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own Comments (including type of equipment and location, per C2(e), If applicable) Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of				SAME			
Copy all pages of this Elevation Cartificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own Comments (including type of equipment and location, per C2(e), If applicable) Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of	. 1.2.7.000			Heres			
Copy all pages of this Elevation Cartificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own Comments (including type of equipment and location, per C2(e), If applicable) Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of		State	7ID Code	TO STATE OF THE PARTY OF THE PA			
Copy all pages of this Elevation Cartificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own Comments (including type of equipment and location, per C2(e), If applicable) Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of			25045	MANAL SUMME			
Copy all pages of this Elevation Cartificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building own  Comments (including type of equipment and location, per C2(e), if applicable)  Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of	Signature L. L.	Date 10-29-2020	Telephone (304) 548-5324	Ext.			
Item B9 - base flood elevation shown is from FIRM. Subject dwelling has been elevated in accordance with the height requirements of			icial, (2) insurance eg	pent/company, and (3) building owner			
	Item B9 - base flood elevation shown is from	n FIRM. Subject dwelling has been el	evated in accordanc	e with the height requirements of			
FEMA Form 086-0-33 (12/19) Replaces all previous editions. Form Page 2	FEMA Form 086-0-33 (12/19)	Replaces all previous edition	ns.	Form Page 2 of			

## **ELEVATION CERTIFICATE**

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

IMPORTANT: In these spaces, copy the correspondi	FOR INSURANCE COM	PANY USE			
Building Street Address (including Apt., Unit, Suite, and 127 Calhoun Street	for Bidg. No.) or P.O. Ro	ute and Box No.	Policy Number:		
	State ZIP Vest Virginia 249	Code 010	Company NAIC Number		
SECTION E - BUILDING ELE FOR ZONE	EVATION INFORMATION AND ZONE A (WI	ON (SURVEY NO THOUT BFE)	T REQUIRED)		
For Zones AO and A (without BFE), complete Items E1- complete Sections A, B,and C. For Items E1–E4, use na enter meters.	-E5. If the Certificate is in atural grade, if available.	ntended to support Check the measur	a LOMA or LOMR-F reques ement used. In Puerto Rico	it, only,	
E1. Provide elevation information for the following and the highest adjacent grade (HAG) and the lowest a a) Top of bottom floor (including basement,	check the appropriate bo idjacent grade (LAG).	xes to show wheth	_		
crawlspace, or enclosure) is  b) Top of bottom floor (including basement, crawlspace, or enclosure) is		☐ feet ☐ met			
E2. For Bullding Diagrams 6–9 with permanent flood of the next higher floor (elevation C2.b in	penings provided in Secti	ion A Items 8 and/o	or 9 (see pages 1–2 of Instru	uctions),	
the diagrams) of the building is		feet met	ers above or below	the HAG.	
E3. Attached garage (top of slab) is		feet met	ers above or belov	v the HAG.	
E4. Top of platform of machinery and/or equipment servicing the building is		☐ feet ☐ met			
E5. Zone AO only: If no flood depth number is available floodplain management ordinance? Yes	e, is the top of the botton No Unknown. Th	floor elevated in a le local official mus	eccordance with the commu t certify this information in S	nity's ection G.	
SECTION F - PROPERTY OWN	MER (OR OWNER'S REF	PRESENTATIVE)	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 C	ode	
Signature	Date		Felephone Felephone		
Comments					
			Check here if atta	achments.	

## **ELEVATION CERTIFICATE**

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

IMPORTANT: In these spaces, copy the corre	FOR INSURANCE COMPANY USE				
Building Street Address (including Apt., Unit, Su 127 Calhoun Street					
City Alderson	State West Virginia	ZIP Code 24910	Company NAIC Number		
SECTION G - COMMUNITY INFORMATION (OPTIONAL)					
engineer, or architect who is authorize	Certificate. Complete t er meters. en from other documen	he applicable item(s) a station that has been sign	ain management ordinance can complete nd sign below. Check the measurement gned and sealed by a licensed surveyor, cate the source and date of the elevation		
G2. A community official completed Section Zone AO.	on E for a building loca	ted in Zone A (without	a FEMA-issued or community-issued BFE)		
G3.  The following information (Items G4-	G10) is provided for co	mmunity floodplain ma	nagement purposes.		
G4. Permit Number	G5. Date Permit Issu	ed	G6. Date Certificate of Compliance/Occupancy Issued		
	_	Substantial Improvem	ent		
G8. Elevation of as-built lowest floor (including of the building:	basement)		feet meters Datum		
G9. BFE or (in Zone AO) depth of flooding at t	he building site:		feet meters Datum		
G10. Community's design flood elevation:	_		feet meters Datum		
Local Official's Name		Title	a a		
Community Name		Telephone			
Signature		Date			
Comments (including type of equipment and loc	ation, per C2(e), if app	licable)			
			Check here if attachments.		
FEMA Form 086-0-33 (12/19)	Replaces all pre	vious editions.	Form Page 4 of 6		

#### **BUILDING PHOTOGRAPHS**

**ELEVATION CERTIFICATE** 

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 Bidg, No.) or P.O. Route and Box No.

127 Calhoun Street

City State ZiP Code
Alderson West Virginia 24910

FOR INSURANCE COMPANY USE

FOR INSURANCE COMPANY USE

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 On

Photo One Caption

Clear Photo One



Photo Two Caption

Clear Photo Two

Replaces all previous editions.

Form Page 5 of 6

## **BUILDING PHOTOGRAPHS**

**ELEVATION CERTIFICATE** 

Continuation Page

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

IMPORTANT: In these spaces,	FOR INSURANCE COMPANY USE Policy Number:		
Building Street Address (includin 127 Calhoun Street			
City	State	ZIP Code	Company NAIC Number
Alderson	West Virginia	24910	

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

Clear Photo Three



Photo Four Caption

Clear Photo Four

FEMA Form 086-0-33 (12/19)

Replaces all previous editions.

Form Page 6 of 6



## **Most Widely Accepted and Trusted**

## **ICC-ES Evaluation Report**

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

**ESR-4332** 

Issued 03/2019 This report is subject to renewal 03/2020.

**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



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



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## **ICC-ES Evaluation Report**

**ESR-4332** 

Issued March 2019

This report is subject to renewal 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 EVALUATION SCOPE

Compliance with the following codes:

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

#### Properties evaluated:

- Physical operation
- Water flow
- Weathering

#### 2.0 USES

The model FFV-1608 Freedom Flood Vent<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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.)
Freedom Flood Vent™	FFV-1608	15 <sup>3</sup> / <sub>4</sub> " X 8 <sup>1</sup> / <sub>16</sub> "	250

For \$1: 1 inch = 25.4 mm

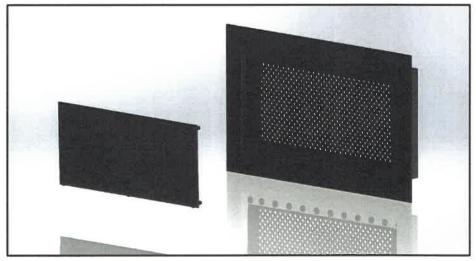


FIGURE 1—MODEL FFV-1608 FREEDOM FLOOD VENTTM: SHOWN WITH COVER REMOVED

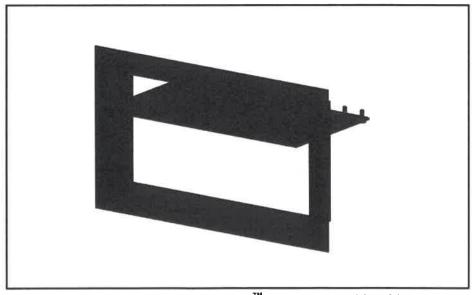


FIGURE 2-MODEL FFV-1608 FREEDOM FLOOD VENTTM: SHOWN WITH FLOOD DOOR PIVOTED OPEN



## **ICC-ES Evaluation Report**

## **ESR-4332 CBC and CRC Supplement**

Issued March 2019

This report is subject to renewal March 2020.

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:

SMART PRODUCT INNOVATIONS, INC.

**EVALUATION SUBJECT:** 

FREEDOM FLOOD VENT<sup>TM</sup> 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<sup>™</sup> 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<sup>™</sup> 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 master report, issued March 2019.





## ICC-ES Evaluation Report

## **ESR-4332 FBC Supplement**

Issued March 2019

This report is subject to renewal 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 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 master report, issued March 2019.

