A Practical Guide to FEMA Elevation Certificates

A PRACTICAL GUIDE TO ELEVATION CERTIFICATES

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Licensed since 1981, CFM since 2016

Private Sector through 2013, Public Sector since 2013

- Disclaimers:
- 1) Although this presentation is based upon FEMA Documents, it is not "FEMA Approved". It is intended to be a practical guide to assist in the completion of Elevation Certificates, as well as understanding the criteria used by Government Officials when reviewing EC's. You are reminded to visit FEMA.gov to make a final determination related to elements of the Elevation Certificate ("EC").
- 2) Always use the most current Elevation Certificate (Available, with Instructions, at <u>TBD.com</u>) You can also search Elevation Certificate at the FEMA.gov website.
- 3) Always use the most current flood mapping, available at <u>http://msc.fema.gov/portal</u>.
- 4) Certain Private Websites will be referenced in this presentation. These are provided for informational purposes only. They are cited as locations of resources which may be helpful in the completion of Elevation Certificates. Additional resources may be available. There is no intent to endorse any non-governmental entity.
- General Instructions
- 1. When completing the EC, please provide all responses IN CAPITAL LETTERS.
- 2. Do not leave any blank spaces (Use NA as applicable).
- 3. It is requested that you provide a copy of an applicable FIRMette with the EC. This will assist in verifying the information contained in section B.
- 4. When an EC is incomplete or incorrect it becomes necessary for City Staff to prepare a "Memo of Review For Correctness and Completion". This places an undue and unnecessary burden on City Staff. For that reason we request that you review your EC's for Correctness and Completion prior to submission.

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

OMB Control No. 1660-0008 Expiration Date: 06/30/2026

CRS EC Checklist

ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

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:	Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: Either A2 or A3 must be completed, with City, State and Zip included	Company NAIC Number:
City: State:	ZIP Code:
A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Nur	mber:

• A1: Building Owner's Name (Required). Enter name as appropriate. May be Current Owner, Prospective Owner. Builder/Contractor, Attorney, Agent, other. But a Name must be provided.

• A2: Building Street Address (Required). Identify Address as indicated by the Milford Tax Assessor.

• A3: Property Description (Optional when A2 is provided). (May be left blank) When utilized (preferred), use the format:

• Tax Assessor's Map #____Block____Parcel____

• A4: Building Use (Required): Self Explanatory

A4.	Building Use (e.g., Residential, Non-Resider	ntial, Addition, Accessory, e	tc.):	
A5.	Latitude/Longitude: Lat.	Long.	Horizontal Datum: NAD 1927	NAD 1983 🔲 WGS 8
A8.	Attach at least two and when possible four o	lear photographs (one for e	ach side) of the building (see Form p	ages 7 and 8).
47.	Building Diagram Number:			
48.	For a building with a crawlspace or enclosur	e(s):		
	a) Square footage of crawlspace or enclosu	re(s):	sq. ft.	
	b) Is there at least one permanent flood ope	ning on two different sides	of each enclosed area? 🗌 Yes 📃	No N/A
	 c) Enter number of permanent flood opening Non-engineered flood openings: 	gs in the crawlspace or enc Engineered flood o	and a second	nt grade:
	d) Total net open area of non-engineered fi	ood openings in A8.c:	sq. in.	
	e) Total rated area of engineered flood oper	nings in A8.c (attach docum	entation – see Instructions):	sq. ft.
	f) Sum of A8.d and A8.e rated area (if appli	cable – see Instructions):	sq. ft.	
.9.	For a building with an attached garage:			
	a) Square footage of attached garage:	sq. ft.		
	b) Is there at least one permanent flood ope	ning on two different sides	of the attached garage? 🔲 Yes 📃	No 🗌 N/A
	c) Enter number of permanent flood opening	gs in the attached garage w	ithin 1.0 foot above adjacent grade:	
	Non-engineered flood openings:	Engineered flood o	penings:	
	d) Total net open area of non-engineered fle	ood openings in A9.c:	sq. in.	
	 e) Total rated area of engineered flood oper 	nings in A9.c (attach docum	entation – see Instructions):	sq. ft.
	f) Sum of A9.d and A9.e rated area (if appli	cable – see Instructions):	sq. ft.	

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): describe as accurately as possible must be formatted correctly (see Instructions) one must be chosen	
A5. Latitude/Longitude: Lat. Long. Long. Horizontal Datum: NAD 1927 NAD 1983 WGS	84
A6. Attach at least two and when possible four clear photographs (one for each side) of the building (see Form pages 7 and 8). A7. Building Diagram Number:Must be: 1A,1B,2A,2B,3,4,5,6,7,8,9 2, preferably 4, photos required (photos must be and clear)	in color
A8. For a building with a crawlspace or enclosure(s): Enter "N/A" in fields that are not applicable. Blank fields are assumed to be "N/A"	
a) Square footage of crawlspace or enclosure(s):sq. ftone must be chosen	
b) Is there at least one permanent flood opening on two different sides of each enclosed area?	
c) Enter number of permanent flood openings in the crawlspace or enclosure(s) within <u>1.0 foot above adjacent grade:</u> Non-engineered flood openings: Engineered flood openings:	
d) Total net open area of non-engineered flood openings in A8.c:sq. in. Enter actual opening size	
e) Total rated area of engineered flood openings in A8.c (attach documentation – see Instructions): Enter total rated area sq. ft.	
f) Sum of A8.d and A8.e rated area (if applicable – see Instructions): sq. ft. Only required when both non-engineered and engineered openings are present	
A9. For a building with an attached garage: Enter "N/A" in fields that are not applicable. Blank fields are assumed to be "N/A"	
a) Square footage of attached garage: sq. ft one must be chosen	
b) Is there at least one permanent flood opening on two different sides of the attached garage? 🗌 Yes 🗌 No 📄 N/A	
c) Enter number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade: Non-engineered flood openings: Engineered flood openings:	
d) Total net open area of non-engineered flood openings in A9.c:sq. in. Enter actual opening size	
e) Total rated area of engineered flood openings in A9.c (attach documentation – see Instructions): Enter total rated areasq. ft.	
f) Sum of A9.d and A9.e rated area (if applicable – see Instructions): sq. ft. Only required when both non-engineered and engineered openings are present	0

- A5: Latitude/Longitude (Required). May be decimal Degrees or DMS. (Address method of determination in Comments, if established by Licensed Surveyor.)
- Suggested Formats: N DD°MM'SS.S" W DD°MM'SS.S"

•	DD-MM-SS.SS	- DD-MM-SS.SS
•	N DD.dddd°	W DD.dddd°
•	DD.dddd°	- DD.dddd°

• A6: Attach at least 2 Photographs (required), 4 preferred: Provide sufficient photographs, with sufficient detail, to clearly indicate Diagram Number.

- A7: Building Diagram Number (Required). Carefully review the Building Diagrams included in the Instructions.
 - Be sure to carefully review the Diagrams to determine which one most closely matches the subject building.
- Walk through Building Diagrams as indicated on FEMA's "CRS EC Checklist".
- NOTE: Diagram 9 is generally NOT ALLOWED for New Construction. See FEMA Technical Bulletins 1 and 11.
- Not all buildings fit conveniently into the available diagrams. In such cases, select the closest diagram and elaborate in the Comments.
- A8a: Square footage of crawlspace or enclosure (Required): Enter 0 (or NA) where there is no crawlspace, enclosure, or garage. Otherwise, this is the Gross Area (outside wall dimensions).
- Note that in the event of separate enclosed areas, such as a crawlspace separated from a garage by a foundation wall, each enclosed area must be addressed. They may be treated independently, or they may be combined, if there are sufficient openings provided between the enclosures.
- A8b: Is there at least one permanent flood opening on 2 sides of the enclosed area (Y/N). Self explanatory
- •
- A8c: Number of permanent flood openings... (Required): If none indicate 0. No credit may be taken for any openings whose lowest portion is more than 12" above grade. (Highest grade inside or outside prevails.)
- A8d: Total net area of non-engineered flood openings in A8c (Required). Net open area, in square inches. In the case of openings (typically ventilation openings) with covers, sliders, flaps, etc. must be permanently removed or disabled to receive credit.
- A8e: Total rated area of engineered flood openings in A8c (Required). Rated area, in square feet. ICC Certificate required/attach. It is recommended that a photo of the manufacturer's plate, indicating rated area be provided.
- A8f: Sum of A8d and A8e in square feet.

A9: For a Building with an attached Garage. NOTE: An attached garage, as defined by the EC, is a garage, structurally connected to the parent building, over which there are no livable areas.

• If there is not an ATTACHED GARAGE (as defined by FEMA) enter "0" or N/A in all fields.

A9a:Square footage of crawlspace or enclosure (Required): Enter 0 (or NA) where there is nocrawlspace,enclosure, or garage. Otherwise, this is the Gross Area (outside walldimensions).

• Note that in the event of separate enclosed areas, such as a crawlspace separated from a garage by a foundation wall, each enclosed area must be addressed. They may be treated independently, or they may be combined, if there are sufficient openings provided between the enclosures.

A9b: Is there at least one permanent flood opening on 2 sides of the enclosed area (Y/N). Self explanatory

A9c: Number of permanent flood openings... (Required): If none indicate 0. No credit may be taken for any openings whose lowest portion is more than 12" above grade. (Highest grade inside or outside prevails.)

A9d: Total net area of non-engineered flood openings in A8c (Required). Net open area, in square inches. In the case of openings (typically ventilation openings) with covers, sliders, flaps, etc. must be permanently removed or disabled to receive credit.

A9e: Total rated area of engineered flood openings in A8c (Required). Rated area, in square feet. ICC Certificate required/attach. It is recommended that a photo of the manufacturer's plate, indicating rated area be provided.

A9f: Sum of A8d and A8e in square feet.

SECTION B - FI	LOOD INSURANCE F	ATE MAP (FIRM) INFORMATION	
B1.a. NFIP Community Name: Must be entered	and correct	B1.b. NFIP Community Identification	Number: Must be entered and corre
B2. County Name:	B3. State:	B4. Map/Panel No.:	B5. Suffix:
B6. FIRM Index Date:	B7. FIRM Panel Effecti	ve/Revised Date:	
B8. Flood Zone(s):	B9. Base Flood Elevati	on(s) (BFE) (Zone AO, use Base Flood	l Depth):
B10. Indicate the source of the BFE data or Ba		in Item B9:	
B11. Indicate elevation datum used for BFE in	Item B9: 🗌 NGVD 192	9 🗌 NAVD 1988 📄 Other/Source: _	
B12. Is the building located in a Coastal Barrie Designation Date: [r Resources System (CE CBRS OPA	BRS) area or Otherwise Protected Area	a (OPA)? Yes No
B13. Is the building located seaward of the Lim	nit of Moderate Wave Ac	ion (LiMWA)? 🗌 Yes 🗌 No	
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SECTION B - FI	LOOD INSURANCE F	ATE MAP (FIRM) INFORMATION	
B1.a. NFIP Community Name: Must be entered	and correct	B1.b. NFIP Community Identification	Number: Must be entered and corre
B2. County Name:	B3. State:	B4. Map/Panel No.:	B5. Suffix:
B6. FIRM Index Date:	B7. FIRM Panel Effecti	ve/Revised Date:	
B8. Flood Zone(s):	B9. Base Flood Elevati	on(s) (BFE) (Zone AO, use Base Flood	l Depth):
B10. Indicate the source of the BFE data or Ba		in Item B9:	
B11. Indicate elevation datum used for BFE in	Item B9: 🗌 NGVD 192	9 🗌 NAVD 1988 📄 Other/Source: _	
B12. Is the building located in a Coastal Barrie Designation Date: [r Resources System (CE CBRS OPA	BRS) area or Otherwise Protected Area	a (OPA)? Yes No
B13. Is the building located seaward of the Lim	nit of Moderate Wave Ac	ion (LiMWA)? 🗌 Yes 🗌 No	
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•	B1:	NFIP Community Name & Community Number:		
•		For all work in the City of Milford, the Community Name is "MILFORD, CITY OF" and	d	the Community Number is "090082".
•	B2	County Name:		
•		For all work in the City of Milford, the County Name is NEW HAVEN.		
•	B3	State:		
•		For all work in the City of Milford, the State is CT		
•	B4:	Map/Panel Number:		
•		The Map/Panel Number is the 10 character number as the Map Number on the FIRM		
•		Current Maps for Milford include: 09009C0414		
•			09009C0418	
•			09009C0419	
•			09009C0526	
•			09009C0527	
•			09009C0528	
•			09009C0529	
•			09009C0531	
•			09009C0532	
•			09009C0533	
•			09009C0534	
•			09009C0536	
•			09009C0537	
•			09009C0551	
•		All EC's in Milford should identify one (or more, as applicable) of the above map	Numbers.	

•		
•	B5:	Suffix:
•		The Letter appended to the Map/Panel Number.
•	B6:	FIRM Index Date
•		The current FIRM Index Date is 10/16/2013
•	B7:	FIRM Panel Effective/Revised Date
•		As indicated on current FIRM
•	B8:	Flood Zone(s)
•		Must include Flood Zone(s) for Structure (Optional, include other Flood Zones on Property, elaborate in Comments Section.)
•	B9:	Base Flood Elevations:
•		As indicated on FIRM.
•	B10:	Indicate Source of BFE
•		FIRM is usually sufficient.
•		FIS Profile is more precise and may result in an elevation slightly lower than the FIRM.
•	B11:	Indicate Elevation Datum
•		Current FIRMs are in NAVD 1988
•	B12:	Is the Building located in a CBRS or OPA?
•		Select Yes or No, as applicable.
•	B13 Is the	building located seaward of the Limit of Moderate Wave Action (LiMWA)? (Y/N)

• NOTE: This is important. For buildings in an A Zone, seaward of the LiMWA, the standards are similar to those for a V Zone.

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQU	IRED)
C1. Building elevations are based on: Construction Drawings* Building Under Construction* *A new Elevation Certificate will be required when construction of the building is complete.	Finished Construction ubmit "Finished Construction" ECs
C2. Elevations – Zones A1–A30, AE, AH, AO, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, A99. Complete Items C2.a–h below according to the Building Diagram specified in Item A7. In Puerto F Benchmark Utilized: Vertical Datum:	The second
Indicate elevation datum used for the elevations in items a) through h) below.	
	Yes", provide conversion cto <u>r i</u> n Comm <u>ent</u> s Section
Datum used for building elevations must be the same as that used for the BFE. Conversion factor used?	Yes No
If Yes, describe the source of the conversion factor in the Section D Comments area. Items a), f) and g) must always have an elevation. If items b) - h) are not applicable, enter "N/A"	Check the measurement used:
a) Top of bottom floor (including basement, crawlspace, or enclosure floor):	feet meters
b) Top of the next higher floor (see Instructions):	feet meters
c) Bottom of the lowest horizontal structural member (see Instructions):	feet meters
d) Attached garage (top of slab):	feet meters
e) Lowest elevation of Machinery and Equipment (M&E) servicing the building	
(describe type of M&E and location in Section D Comments area):	feet meters
f) Lowest Adjacent Grade (LAG) next to building: Natural Finished	ifeet imeters
g) Highest Adjacent Grade (HAG) next to building: 🔄 Natural 🔄 Finished 🖉	feet meters
h) Finished LAG at lowest elevation of attached deck or stairs, including structural support:	🗌 feet 🗌 meters
and bein	

• Building elevations are based upon:

• While the City will accept ECs for Construction Drawings or Building Under Construction, only Finished Construction is required.

• C2: Elevations; Bench Mark Used, Vertical Datum:

• Identify bench Mark Used.

• As the FIRMs are in NAVD 1988, all elevations must be in NAVD 1988. If utilizing a Benchmark in a different datum, include conversion information under comments.

• Note FEMA recognizes the NGS/NOAA (<u>www.ngs.noaa.gov</u>) websites CORS (Continuously Operating Reference Station) Network as an accepted Benchmark.

• Some private GPS Network providers utilize data from the CDOT ACORN Network. Verify with your provider before utilizing GPS data to establish Bench Marks.

• In all cases (C2a-h), be sure to check "feet".

- C2a: Top of Bottom Floor:
- See Building Diagram
- C2b: Top of Next Higher Floor:
- See Building Diagram. In the case of a single level building, enter N/A.
- C2c: Top of Lowest Horizontal Structural Member (V Zones only):
- See Building Diagram. In other than V Zone, enter N/A.
- C2d: Attached Garage (top of slab):

• See Building Diagram. Review Diagrams. If there is habitable space above a Garage it is not considered an Attached Garage. If there is no Attached Garage, enter N/A.

- C2e: Lowest Elevation of machinery or equipment:
- Includes, furnace, water heater, air conditioning, electric meter, etc.
- C2g: Highest Adjacent Grade (HAG):
- See Building Diagram.
- C2h: Lowest Adjacent Grade at Lowest Elevation of Deck or Stairs, including Structural Support:
- See Building Diagram. If none, enter NA.

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by state 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 li	icensed land surveyor?	Yes	Nc
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Check here if attachments and describe in the Comments area.

Certifier's Name:)(License	Number:	
Title:				
Company Name:				
Address:				
City:		State:	ZIP Code:	
Signature:	All 4 highlighted items must be in this Section		Date:	
Telephone:	Ext.:	Email:		Place Seal Here
Copy all pages of	this Elevation Certificate and all	attachments for (1) co	mmunity official, (2) insurance	agent/company, and (3) building owner.
Comments (inclu	iding source of conversion facto	r in C2; type of equip	ment and location per C2.e; a	nd description of any attachments):

Use this space to describe type of mach/equip in C2e and location, engineered flood opening model #s and rated areas, datum conversions, map changes between permitting and certifying EC, and other relevant information not specified elsewhere on the certificate.

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- Were Lat. & Long. Provided by a licensed land Surveyor?
- Check Y or N as appropriate. You may wish to add info in Comments.
- 2) Certifier's Name:
- As Applicable
- 3) License Number:
- As Applicable (P.E., L.S.)
- 4) Title:
- As Applicable
- 5) Company Name:
- As Applicable
- 6) Address
- As Applicable
- 7) City:
- As Applicable

- 8) State:
- As Applicable
- 9) Zip Code
- As Applicable
- 10) Signature:
- <u>Be Sure to Sign the EC</u>.
- 11) Date:
- <u>Be Sure to Sign the EC</u> (typically the date of the field survey).
- 12) Telephone:
- As Applicable
- 13) Box for Stamp/Seal
 - Be sure to Stamp or Seal the EC. (If using an embossed seal, please shade the seal with pencil so that photocopies will clearly show that the original was sealed.)
- 14) Comments:
- Add any comments necessary to clarify the information provided.

ELEVATION CERTIFICATE

Intended to support a Letter of Map Change request, complete Sections A, B, and C. Check the measurement used. In Puerto Rid enter meters. Building measurements are based on: Construction Drawings* Building Under Construction* Finished Construction * new Elevation Certificate will be required when construction of the building is complete. E1. Provide measurements (C.2.a in applicable Building Diagram) for the following and check the appropriate boxes to show whet measurement is above or below the natural HAG and the LAG. a) Top of bottom floor (including basement, crawlspace, or enclosure) is: feet meters above or below th b) Top of bottom floor (including basement, crawlspace, or enclosure) is: feet meters above or below th exit higher floor (C2.b in applicable Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructi next higher floor (C2.b in applicable Building Diagram) of the building is: feet meters above or below th 53. Attached garage (top of slab) is: feet meters above or below th E4. Top of platform of machinery and/or equipment servicing the building is: feet meters above or below th E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community floodplain management ordinance? Yes	State: ZIP Code: Company NAIC Number. SECTION E – BUILDING MEASUREMENT INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO, ZONE AR/AO, AND ZONE A (WITHOUT BFE) AO, AR/AO, and A (without BFE), complete items E1–E5. For items E1–E4, use natural grade, if available. If the Certificate is support a Letter of Map Change request, complete Sections A, B, and C. Check the measurement used. In Puerto Rico only, s. assurements are based on: Construction Drawings* Building Under Construction* Finished Construction available. If the Certificate is support a Letter of Map Change request, complete Sections A, B, and C. Check the measurement used. In Puerto Rico only, s. assurements is c2.a in applicable Building Diagram) for the following and check the appropriate boxes to show whether the rement is above or below the HAG. or bottom floor (including basement, whspace, or enclosure) is: feet meters above or below the LAG. of bottom floor (including basement, whspace, or enclosure) is: feet meters above or below the LAG. glagram) of the building is: feet meters above or below the LAG. glagram of the building is: feet meters above or below the LAG. glagram of the building is: feet meters above or below the LAG. glagram of the building is: feet meters above	State: ZIP Code: Company NAIC Number: SECTION E - BUILDING MEASUREMENT INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO, ZONE AR/AO, AND ZONE A (WITHOUT BFE). For Zones AO, AR/AO, and A (without BFE), complete Items E1-E5. For Items E1-E4, use natural grade, if available. If the Certificate is included to support a Letter of Map Change request, complete Sections A, B, and C. Check the measurement used. In Puerto Rico only, inter meters. building measurements are based on: Construction Drawings* Building Under Construction* Finished Construction A new Elevation Certificate will be required when construction of the building is complete. 61. Provide measurements (C.2.a in applicable Building Diagram) for the following and check the appropriate boxes to show whether the measurement is above or below the natural HAG and the LAG. a) Top of bottom floor (including basement, crawlspace, or enclosure) is: feet meters above or below the HAG. b) Top of bottom floor (including basement, crawlspace, or enclosure) is: feet meters above or below the LAG. complicable Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1-2 of Instructions), the next higher floor (G2 b in applicable feet meters above or below the HAG S3. Attached garage (top of slab) is: feet meters above or below the HAG S3. Attached garage (top	building offeet Address (including Apr., on	it, Suite, and/or Bldg. No	.) or P.O. Route and Box N	o.: FOR IN	ISURANCE COMPANY U
Company NAIC Number: SECTION E – BUILDING MEASUREMENT INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO, ZONE AR/AO, AND ZONE A (WITHOUT BFE) For Zones AO, AR/AO, and A (without BFE), complete Items E1–E5. For Items E1–E4, use natural grade, if available. If the Certifinitended to support a Letter of Map Change request, complete Sections A, B, and C. Check the measurement used. In Puerto Ricenter meters. Building measurements are based on: Construction Drawings* Building Under Construction* Finished Construction An exceeded to the puertor Ricenter meters. Building measurements are based on: Construction Drawings* Building Under Construction* Finished Construction An exceeded to the puertor Ricenter and the certificate will be required when construction of the building is complete. E1. Provide measurements (C.2.a in applicable Building Diagram) for the following and check the appropriate boxes to show whet measurement is above or below the natural HAG and the LAG. a) Top of bottom floor (including basement, crawdspace, or enclosure) is: feet meters above or below th b) Top of bottom floor (including basement, crawdspace, or enclosure) is: feet meters above or below th E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructin next higher floor (C2.b in applicable building Diagram) of the building is: feet meters above or below th <	Company NAIC Number: Comp	Company NAIC Number: SECTION E - BUILDING MEASUREMENT INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO, ZONE AR/AO, AND ZONE A (WITHOUT BFE) for Zones AO, AR/AO, and A (without BFE), complete Items E1–E5. For Items E1–E4, use natural grade, if available. If the Certificate is itended to support a Letter of Map Change request, complete Sections A, B, and C. Check the measurement used. In Puerto Rico only, inter meters. stuilding measurements are based on: Construction Drawings* Building Under Construction* Finished Construction A new Elevation Certificate will be required when construction of the building is complete. Finished Construction Finished Construction a) Top of bottom floor (including basement, crawlspace, or enclosure) is:	Citv:	State:	ZIP Code:		
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Intended to support a Letter of Map Change request, complete Sections A, B, and C. Check the measurement used. In Puerto Rid enter meters. Building measurements are based on:Construction Drawings*Building Under Construction*Finished Construction A new Elevation Certificate will be required when construction of the building is complete. E1. Provide measurements (C.2.a in applicable Building Diagram) for the following and check the appropriate boxes to show whe measurement is above or below the natural HAG and the LAG. a) Top of bottom floor (including basement, crawlspace, or enclosure) is:	support a Letter of Map Change request, complete Sections A, B, and C. Check the measurement used. In Puerto Rico only, s. assuments are based on:Construction Drawings*Building Under Construction*Finished Construction assuments are based on:Construction of the building is complete. e measurements (C.2.a in applicable Building Diagram) for the following and check the appropriate boxes to show whether the terment is above or below the natural HAG and the LAG. I'of bottom filoor (including basement, Wspace, or enclosure) is: feet meters above or below the HAG wspace, or enclosure) is: feet meters above or below the LAG. I'dig Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1-2 of Instructions), th gher floor (C2 bin applicable g Diagram) of the building is: feet meters above or below the HAG g Diagram of machinery and/or equipment ng the building is: feet meters above or below the HAG O'only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's ain management ordinance? Yes No feet	tended to support a Letter of Map Change request, complete Sections A, B, and C. Check the measurement used. In Puerto Rico only, ner meters. Suiding measurements are based on:Construction Drawings*Building Under Construction*Finished Construction A new Elevation Certificate will be required when construction of the building is complete. There is a bove or below the natural HAG and the LAG. a) Top of bottom floor (including basement, crawkspace, or enclosure) is:					QUIRED)
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measurement is above or below the natural HAG and the LAG. a) Top of bottom floor (including basement, crawkspace, or enclosure) is:	rement is above or below the natural HAG and the LAG. of bottom floor (including basement, wspace, or enclosure) is: iof bottom floor (including basement, wspace, or enclosure) is: iof bottom floor (including basement, wspace, or enclosure) is:	measurement is above or below the natural HAG and the LAG. a) Top of bottom floor (including basement, crawlspace, or enclosure) is:					inished Construction
crawlspace, or enclosure) is:	wispace, or enclosure) is:	crawlspace, or enclosure) is:				eck the appropriat	e boxes to show whether th
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next higher floor (C2 b in applicable Building Diagram) of the building is: E3. Attached garage (top of slab) is: E3. Attached garage (top of slab) is: E4. Top of platform of machinery and/or equipment servicing the building is: E4. Top of platform of machinery and/or equipment servicing the building is: E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community floodplain management ordinance? E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community floodplain management ordinance? E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community floodplain management ordinance? E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community floodplain management ordinance? E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community floodplain management ordinance? E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community floodplain management ordinance? E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community floodplain management ordinance? Check here if attachments and describe in the Comments area. Property Owner or Owner's Autho	gher floor (C2 b in applicable g Diagram) of the building is: g ad garage (top of slab) is: g lagram) of the building is: g biagram) of machinery and/or equipment g the building is: g the building is: g the building is: in gram by the provide the provide the point of the bottom floor elevated in accordance with the community's and management ordinance? Yes No Unknown The local official must certify this information in Section C ECTION F - PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION y owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without BFE) or Zone AO must the statements in Sections A, B, and E are correct to the best of my knowledge tere if attachments and describe in the Comments area. wher or Owner's Authorized Representative Name:	next higher floor (C2 b in applicable Building Diagram) of the building is: 33. Attached garage (top of slab) is: 4. Top of platform of machinery and/or equipment 54. Top of platform of machinery and/or equipment 55. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes Yes No Unknown The local official must certify this information in Section O SECTION F – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without BFE) or Zone AO mustign here. The statements in Sections A, B, and E are correct to the best of my knowledge Check here if attachments and describe in the Comments area. Property Owner or Owner's Authorized Representative Name: widdress: 2: 2: 2: State: ZIP Code: 2: Ext: Email:		ement,	feet	meters 🗌 ab	ove or 🗌 below the LAG
	ad garage (top of slab) is:		next higher floor (C2.b in applicable	nanent flood openings p			
E4. Top of platform of machinery and/or equipment servicing the building is:	platform of machinery and/or equipment ng the building is:						
Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community floodplain management ordinance? Yes No Unknown The local official must certify this information in S SECTION F – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without BFE) or Zone / sign here. The statements in Sections A, B, and E are correct to the best of my knowledge Check here if attachments and describe in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code:	OQ only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's ain management ordinance? Yes No Unknown The local official must certify this information in Section (International Content of	Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown The local official must certify this information in Section O SECTION F – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without BFE) or Zone AO must ign here. The statements in Sections A, B, and E are correct to the best of my knowledge Check here if attachments and describe in the Comments area. Property Owner or Owner's Authorized Representative Name: iddress: State: ZIP Code: ignature: Date: ielephone: Ext.: Email:	E4. Top of platform of machinery and/or	equipment			
SECTION F – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without BFE) or Zone A sign here. The statements in Sections A, B, and E are correct to the best of my knowledge Check here if attachments and describe in the Comments area. Property Owner or Owner's Authorized Representative Name:	ECTION F – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION any owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without BFE) or Zone AO must here if attachments and describe in the Comments area. wher or Owner's Authorized Representative Name:	SECTION F – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without BFE) or Zone AO mustion here if attachments in Sections A, B, and E are correct to the best of my knowledge Check here if attachments and describe in the Comments area. Property Owner or Owner's Authorized Representative Name:		ber is available, is the to			
The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without BFE) or Zone A sign here. The statements in Sections A, B, and E are correct to the best of my knowledge Check here if attachments and describe in the Comments area. Property Owner or Owner's Authorized Representative Name:	y owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without BFE) or Zone AO must the statements in Sections A, B, and E are correct to the best of my knowledge here if attachments and describe in the Comments area. wher or Owner's Authorized Representative Name: 	he property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without BFE) or Zone AO musign here. The statements in Sections A, B, and E are correct to the best of my knowledge Check here if attachments and describe in the Comments area. Property Owner or Owner's Authorized Representative Name: ddress: State: ZIP Code: Ext.: Email:	floodplain management ordinance?	Yes No	Unknown The local of	official must certify	this information in Section
sign here. The statements in Sections A, B, and E are correct to the best of my knowledge Check here if attachments and describe in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code:	The statements in Sections A, B, and E are correct to the best of my knowledge ere if attachments and describe in the Comments area. where or Owner's Authorized Representative Name:	ign here. The statements in Sections A, B, and E are correct to the best of my knowledge Check here if attachments and describe in the Comments area. Property Owner or Owner's Authorized Representative Name: ddress: Dity: Ext:: Ext:: Ext:: Email:	SECTION F - PROPERTY O	OWNER (OR OWNER	R'S AUTHORIZED REF	PRESENTATIVE	CERTIFICATION
Address: City: ZIP Code: ZIP Code:	wner or Owner's Authorized Representative Name:	Grouperty Owner or Owner's Authorized Representative Name:					thout BFE) or Zone AO mu
Address:	State:ZIP Code:	xiddress:	Check here if attachments and descri	be in the Comments are	ea.		
City: State: ZIP Code:	State:ZIP Code: Date:	State: ZIP Code: Signature: Date: relephone: Ext.: Email:	Property Owner or Owner's Authorized Re	epresentative Name:			
	Date:	signature: pate: relephone: Ext.: Email:	Address:				
Signature: Date:		elephone: Ext.: Email:				ate: ZIF	Code:
		elephone: Ext.: Email:	Signature		Date		

• SECTIONS E & F do not apply to ECs prepared by Land Surveyors

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

Duildia	ng Street Address (including Apt., Unit, S					URANCE COMPANY US
Buildin	ig Street Address (including Apr., Onit, 3	suite, and/or blug. N	5.) of P.O. Roule and E	SOX IND		
City:		State:	ZIP Code:			mber: NAIC Number:
				0054541151		
	SECTION G - COMMUNITY INFO	2				
	ocal official who is authorized by law or on A, B, C, E, G, or H of this Elevation (rdinance can complete
G1.	engineer, or architect who is auth	The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by state law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)				
G2.a.	A local official completed Section E5 is completed for a building loc		ated in Zone A (witho	ut a BFE), Z	one AO, or Zo	one AR/AO, or when item
G2.b.	A local official completed Section	H for insurance pu	rposes.			
G3.	In the Comments area of Section	G, the local official	describes specific co	rrections to t	he informatio	n in Sections A, B, E and
G4.	The following information (Items	G5–G11) is provide	d for community flood	Iplain manag	ement purpos	es.
G5.	Permit Number:	G6. Dat	e Permit Issued:			
G7.	Date Certificate of Compliance/Occu					
G8.	This permit has been issued for:	New Construction	Substantial Impr	ovement		
G9.a.	Elevation of as-built lowest floor (incl building:	uding basement) of	the	feet	meters	Datum:
G9.b.	Elevation of bottom of as-built lowest member:	horizontal structura	al	feet	meters	Datum:
G10.a	. BFE (or depth in Zone AO) of floodin	g at the building site	Ð:	🗌 feet	meters	Datum:
G10.b	 Community's minimum elevation (or requirement for the lowest floor or low member; 		ctural			
044		Distance in the second second second		feet		
G11.	Variance issued? Yes No	If yes, attach doo	umentation and desc	ribe in the Co	omments area	l.
	cal official who provides information in at to the best of my knowledge. If applic					
Local	Official's Name:		Title:			
NFIP	Community Name:					
Telep	hone: Ext.:	Email:				
Addre						
City:				State:	ZIP C	ode:
	ture:		Date:			
	nents (including type of equipment and ons A, B, D, E, or H):	location, per C2.e;	description of any att	achments; ar	nd corrections	to specific information in

• SECTION G does not apply to ECs prepared by Land Surveyors

Building Street Address (in	cluding Apt., Unit, Suite, and	/or Bldg. No.) c	r P.O. Route and E	Box No.:	FOR IN	SURANCE COMP	PANY US
City:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ate:	ZID Code:		Policy Number:		
ony	3	ate	_ ZIF Code		Compar	y NAIC Number:	
SEC	TION H - BUILDING'S F (SURVEY NOT REC					ZONES	
to determine the building's nearest tenth of a foot (ne	er's authorized representativ s first floor height for insurar earest tenth of a meter in Pu <i>propriate Building Diagra</i> i	ice purposes. erto Rico). <i>Re</i>	Sections A, B, and ference the Foun	d I must als dation Typ	o be complet e Diagrams	ed. Enter heights t (at the end of Se	to the
H1. Provide the height of	the top of the floor (as indic	ated in Found	ation Type Diagrai	ms) above	the Lowest A	djacent Crade (LA	NC):
floor (include above-g	grams 1A, 1B, 3, and 5–9. grade floors only for building as or enclosure floors) is:			feet	ineters	above the L	AG
	grams 2A, 2B, 4, and 6–9. loor above basement, craw			feet	meters	above the L/	AG
	Equipment servicing the bui he Foundation Type Diagrar						ated by ti
SECTION I -	PROPERTY OWNER (O	R OWNER'S	AUTHORIZED	REPRESE	ENTATIVE)	CERTIFICATIO	N
	ents are provided (including 's Authorized Representativ		,			Comments area.	
City:				State:	ZIP	Code:	
Signature:			Date:				
Felephone:	Ext.: I	Email:					
Comments:							
	-152 (formerly 086-0-33) (10						Page 6 c

• SECTIONS H & I do not apply to ECs prepared by Land Surveyors

ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19 BUILDING PHOTOGRAPHS

See Instructions for Item A6.

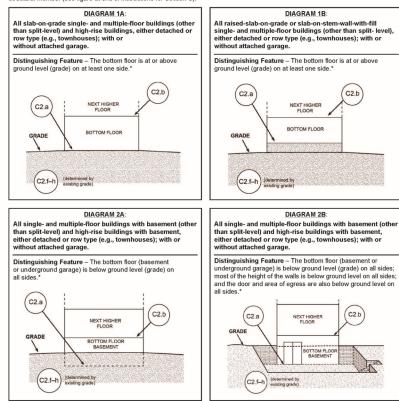
Building Street Address (including	Apt., Unit, Suite, and/or Bldg. No	.) or P.O. Route and Box No.:	FOR INSURANCE COMPANY US
	State: ZIP Code:		Policy Number:
Dity:	State:	ZIP Code:	Company NAIC Number:
ble to take front and back pictu Right Side View," or "Left Side '	res of townhouses/rowhouses). I View." Photographs must show t	dentify all photographs with the d	he building (for example, may only be late taken and "Front View," "Rear View ngs are present, include at least one 9.
		Photo One	
	1	Photo Two	

- Building Photographs
- A minimum of 2 (4 or more when possible). All sides are to be shown.
- Also, provide photograph of Engineered Opening(s), if applicable

BUILDING DIAGRAMS

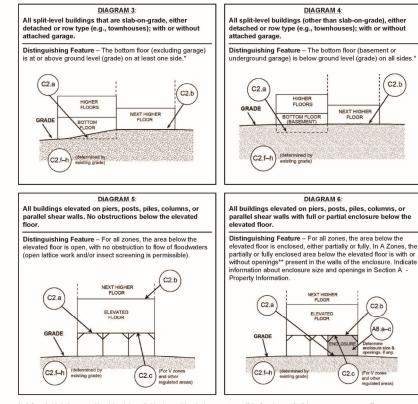
The following diagrams illustrate various types of buildings. Compare the features of the building being certified with the features shown in the diagrams and select the diagram most applicable. Enter the diagram number in Item A7, the square footage of crawlspace or enclosure(s) and the area of flood openings as indicated in Items A8.a–f, the square footage of attached garage and the area of flood openings as indicated in Items A9.a–f, and the elevations in Items C2.a–h.

In A, B, C, X and D zones, the floor elevation is taken at the top finished surface of the floor indicated; in V zones, areas seaward of the LIMWA, and in other areas regulated for coastal flooding hazards, the floor elevation is taken at the bottom of the lowest horizontal structural member (see figure at end of instructions for Section C).



* A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.

BUILDING DIAGRAMS



 A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.

** An "opening" is a permanent opening that allows for the free passage of water automatically in both directions without human intervention. Under the NFIP, a minimum of two openings is required for enclosures or crawlspaces. The openings shall provide a total net area of not less than one square inch for every square foot of area enclosed, excluding any bars, louvers, or other covers of the opening. Alternatively, an individual Engineerdel Fload Openings Certification or an Evaluation Report issued by the ICC ES must be submitted to document that the design of the openings will allow for the automatic equilization of hydrostatic fload forces on exterior walls. A window, a door, or a garage door is not considered an opening; openings may be installed in doors. Openings shall be on at least two sides of the enclosed area. If a building has more than 1.0 float above the higher of the exterior or interior grade or floor immediately below the opening. For more guidance on openings, see NFIP Forchinal Bulletin 1.

BUILDING DIAGRAMS

DIAGRAM 7:

All buildings elevated on full-story foundation walls with a partially or fully enclosed area below the elevated floor. This includes walkout levels, where at least one side is at or above grade. The principal use of this building is located in the elevated floors of the building.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about enclosure size and openings in Section A – Property Information.

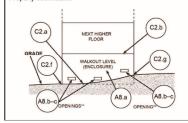


DIAGRAM 8: All buildings elevated on a crawlspace with the floor of the crawlspace at or above grade on at least one side, with or without an attached garage.

Distinguishing Feature – For all zones, the area below the first floor is enclosed by solid or partial perimeter walls. In all A zones, the crawlspace is with or without openings** present in the walls of the crawlspace. Indicate information about crawlspace size and openings in Section A - Property Information. (If the distance from the crawlspace floor to the top of the next higher floor is more than 5 feet, use Diagram 7.)

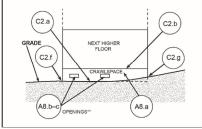
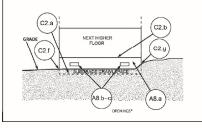


DIAGRAM 9:

All buildings (other than split-level) elevated on a sub-grade crawlspace, with or without attached garage.

Distinguishing Feature – The bottom (crawlspace) floor is below ground level (grade) on all sides." (If the distance from the crawlspace floor to the top of the next higher floor is more than five feet, or the crawlspace floor is more than two feet below the grade [LAG] on all sides. use Diagram 2A or 2B.)



* A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.

** An "opening" is a permanent opening that allows for the free passage of water automatically in both directions without human intervention. Under the NFIP, a minimum of two openings is required for enclosures or crawlspaces. The openings shall provide a total net area of not less than one square inch for every square foot of area enclosed, excluding any bars, lowers, or other covers of the opening. Alternatively, an Individual Engineered Flood Openings Certification or an Evaluation Report issued by the ICC ES must be submitted to document that the design of the opening, will allow for the automatic exqualization of tyrotestatic flood forces on exterior walks. A window, a door, or a guarage duor is not considered an opening, openings may be installed in doors. Openings shall be on at least two sides of the enclosed area. If a building has more than one enclosed area, each area must have openings to allow floodwater to directly enter. The bottom of the openings must be no higher than 1.0 to above the higher of the exterior or interior grade or floor immediately below the opening. For more guidance on openings, see NFIP Technical Bulletin 1.



REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514 FLOOD VENT SEALING KIT #1540-526



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



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ICC-ES Evaluation Report

ESR-2074

DIVISION: 08 00 00-OPENINGS Section: 08 95 43-Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514 FLOOD VENT SEALING KIT #1540-526

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)
- 2021 and 2018 International Energy Conservation Code[®] (IECC)
- 2013 Abu Dhabi International Building Code (ADIBC)[†]
- [†]The ADIBC is based on the 2009 IBC, 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Physical operation
- Water flow
- 2.0 USES

The Smart Vent[®] units are engineered mechanically operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

3.0 DESCRIPTION

3.1 General:

When subjected to rising water, the Smart Vent® FVs internal floats are activated, then pivot open to allow flow in either direction to equalize water level and hydrostatic pressure from one side of the foundation to the other. The FV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water, the buoyant release device causes the unit to unlatch, allowing

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the door to rotate out of the way and allow flow. The water

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The FVs comply with the design principle noted in Section 2.7.2.2 and Section 2.7.3 of ASCE/SEI 24-14 [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. Smart Vent FVs must be installed in accordance with Section 4.0.

3.3 Ventilation:

The SmartVENT® Model #1540-510 and SmartVENT® Overhead Door Model #1540-514 both have screen covers with 1/4-inch-by-1/4-inch (6.35 by 6.35 mm) openings, vielding 51 square inches (32 903 mm²) of net free area to supply natural ventilation. The SmartVENT® Stacking Model #1540-511 consists of two Model #1540-510 units In one assembly, and provides 102 square inches (65 806 mm²) of net free area to supply natural ventilation. Other FVs described in this report do not offer natural ventilation.

3.4 Flood Vent Sealing Kit:

The Flood Vent Sealing Kit Model #1540-526 is used with SmartVENT[®] Model #1540-520. It is a Homasote 440 Sound Barrier® (ESR-1374) insert with 21-2-inch-by-2-inch (51 mm x 51 mm) squares cut in it. See Figure 4.

4.0 DESIGN AND INSTALLATION 4.1 SmartVENT® and FloodVENT®:

SmartVENT® and FloodVENT® are designed to be installed into walls or overhead doors of existing or new construction from the exterior side. Installation of the vents must be in accordance with the manufacturer's instructions, the applicable code and this report. Installation clips allow mounting in masonry and concrete walls of any thickness. In order to comply with the engineered opening design principle noted in Section 2.7.2.2 and 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006) IBC and IRC)], the Smart Vent® FVs must be installed as follows:



ESR-2074 Most Widely Accepted and Trusted

With a minimum of two openings on different sides of each enclosed area.

- With a minimum of one FV for every 200 square fect (18.6 m²) of enclosed area, except that the Smart/EVF17® Stacking Model #1540-511 and Flood/EN17® Stacking Model #1540-521 must be installed with a minimum of one FV for every 400 square feet (37.2 m²) of enclosed area.
- Below the base flood elevation.
- With the bottom of the FV located a maximum of 12 inches (305.4 mm) above the higher of the final grade or floor and finished exterior grade immediately under each opening.
- 4.2 Flood Vent Sealing Kit

The Flood Vent Sealing Kit Model 1540-526 is used in conjunction with Flood/ENT® Model #1540-520. When installed and tested in accordance with ASTM E283, the FV and Flood Vent Sealing Kit assembly have an air leakage rate of less than 0.2 cubic feet per minute per lineal foot (18.56 l/min per lineal meter) at a pressure differential of 1 pound per square toot (50 Pa) based on 12.68 lineal feet (38.11neal meters) contained by the Flood Vent Sealing Kit.

5.0 CONDITIONS OF USE

The Smart Vent[®] FVs described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The Smart Vent[®] FVs 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.

Page 2 of 5

- 5.2 The Smart Vent[®] FVs must not be used in the place of "breakaway walls" in coastal high hazard areas, but are permitted for use in conjunction with breakaway walls in other areas.
- 6.0 EVIDENCE SUBMITTED
- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015 (editorially revised February 2021).
- 6.2 Test report on air infiltration in accordance with ASTM E283.
- 7.0 IDENTIFICATION
- The Smart VENT[®] models and the Flood Vent Sealing Kit described in this report must be identified by a label bearing the manufacturer's name (Smartvent Products, Inc), the model number, and the evaluation report number (ESR-2074).
- 7.2 The report holder's contact information is the following: SMART VENT PRODUCTS, INC.

19 MANTUA ROAD MOUNT ROYAL, NEW JERSEY 08061 (877) 441-8368

www.smartvent.com info@smartvent.com

TABLE 1-MODEL SIZES

MODEL NAME	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
FloodVENT®	1540-520	153/4" X 73/4"	200
Smart/VENT®	1540-510	153/4" X 73/4"	200
FloodVENT® Overhead Door	1540-524	15 ³ /4" X 7 ³ /4"	200
SmartVENT [®] Overhead Door	1540-514	15 ³ /4" X 7 ³ /4"	200
Wood Wall FloodVENT [®]	1540-570	14" X 8 ³ / ₄ "	200
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 83/4"	200
SmartVENT [®] Stacker	1540-511	16" X 16"	400
FloodVent® Stacker	1540-521	16" X 16"	400

For SI: 1 inch = 25.4 mm; 1 square foot = m²

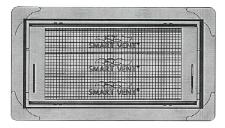


FIGURE 1-SMART VENT: MODEL 1540-510

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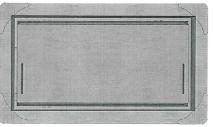


FIGURE 2-SMART VENT MODEL 1540-520



FIGURE 3-SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

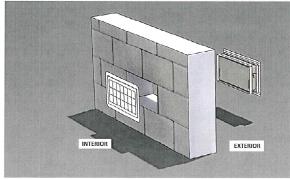


FIGURE 4-FLOOD VENT SEALING KIT

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ICC-ES Evaluation Report	ESR-2074 CBC and CRC Supplement
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DIVISION: 08 00 00-OPENINGS

Section: 08 95 43-Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

SMART VENT[®] AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514 FLOOD VENT SEALING KIT #1540-526

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent[®] Automatic Foundation Flood Vents, described in ICC-ES evaluation report ESR-2074, have 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 Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.11 and 2.12 below.

- 2019 California Residential Code (CRC)
- 2.0 CONCLUSIONS

2.1 CBC:

The Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with 2019 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.

The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

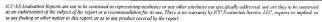
2.1.2 DSA:

The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with the 2019 GRC, 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 February 2023.



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^{2.1.1} OSHPD:

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DIVISION: 08 00 00-OPENINGS

Section: 08 95 43-Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-541; #1540-524; #1540-514 FLOOD VENT SEALING KIT #1540-526

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, described in ICC-ES evaluation report ESR-2074, have 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 Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with the *Florida Building Code—Building* and the *Florida Building Code—Residential*, provided the design requirements are determined in accordance with the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-2074 for 2018 International Building Code meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable.

Use of the Smart Vent[®] Automatic Foundation Flood Vents has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the Florida Building Code—Building and the Florida Building Code—Residential.

For products falling under Florida Rule 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 February 2023.

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• If you have <u>trouble downloading the Elevation</u> <u>Certificate, please follow the tip</u> provided by the Association of State Floodplain Managers (ASFPM). If you get a "Please Wait" error when trying to download the new Elevation Certificate form it is due to an incompatibility issue with the alternative PDF viewer used by certain browsers. To get around this, right click on the Download File link and select "save link as". Save it to your PC. Once it is on your PC, you should be able to open the file. National Flood Insurance Program



and Instructions

2022 EDITION



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

OMB Control No. 1660-0008 Expiration Date: 06/30/2026

ELEVATION CERTIFICATE AND INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE

Public reporting burden for this data collection is estimated to average 3.75 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and submitting this form. You are not required to respond to this collection of information unless a valid OMB control number is displayed on this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing the burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 500 C Street SW, Washington, DC 20742, Paperwork Reduction Project (1660-0008). NOTE: Do not send your completed form to this address.

PRIVACY ACT STATEMENT

Authority: Title 44 CFR § 61.7 and 61.8.

Principal Purpose(s): This information is being collected for the primary purpose of documenting compliance with National Flood Insurance Program (NFIP) floodplain management ordinances for new or substantially improved structures in designated Special Flood Hazard Areas. This form may also be used as an optional tool for a Letter of Map Amendment (LOMA), Conditional LOMA (CLOMA), Letter of Map Revision Based on Fill (LOMR-F), or Conditional LOMR-F (CLOMR-F), or foldor insurance rating purposes in any flood zone.

Routine Use(s): The information on this form may be disclosed as generally permitted under 5 U.S.C. § 552a(b) of the Privacy Act of 1974, as amended. This includes using this information as necessary and authorized by the routine uses published in DHS/ FEMA-003 – National Flood Insurance Program Files System of Records Notice 79 Fed. Reg. 28747 (May 19, 2014) and upon written request, written consent, by agreement, or as required by law.

Disclosure: The disclosure of information on this form is voluntary; however, failure to provide the information requested may impact the flood insurance premium through the NFIP. Information will only be released as permitted by law.

PURPOSE OF THE ELEVATION CERTIFICATE

The Elevation Certificate is an important administrative tool of the NFIP. It can be used to provide elevation information necessary to ensure compliance with community floodplain management ordinances, to inform the proper insurance premium, and to support a request for a LOMA, CLOMA, LOMR-F, or CLOMR-F.

The Elevation Certificate is used to document floodplain management compliance for Post-Flood Insurance Rate Map (FIRM) buildings, which are buildings constructed after publication of the FIRM, located in flood Zones A1–A30, AE, AH, AO, A (with Base Flood Elevation (BFE)), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO, and A99. It may also be used to provide elevation information for Pre-FIRM buildings or buildings in any flood zone.

As part of the agreement for making flood insurance available in a community, the NFIP requires the community to adopt floodplain management regulations that specify minimum requirements for reducing flood losses. One such requirement is for the community to obtain the elevation of the lowest floor (including basement) of all new and substantially improved buildings, and maintain a record of such information. The Elevation Certificate provides a way for a community to document compliance with the community's floodplain management ordinance.

Use of this certificate does not provide a waiver of the flood insurance purchase requirement. Only a LOMA or LOMR-F from the Federal Emergency Management Agency (FEMA) can amend the FIRM and remove the federal mandate for a lending institution to require the purchase of flood insurance. However, the lending institution has the option of requiring flood insurance even if a LOMA/LOMR-F. has been issued by FEMA. The Elevation Certificate may be used to support a LOMA, CLOMA, LOMR-F, or CLOMR-F request. Lowest Adjacent Grade (LAG) elevations certified by a land surveyor, engineer, or architect, as authorized by state law, will be required if the certificate is used to support a LOMA, CLOMA, LOMR-F, or CLOMR-F request. LOMA, CLOMA, LOMR-F, or CLOMR-F request must be submitted with either a completed FEMA MT-EZ or MT-1 application package, whichever is appropriate. If the certificate will only be completed to support a LOMA, CLOMA, LOMR-F, or CLOMR-F request, there is an option to document the certified LAG elevation on the Elevation Form included in the MT-EZ and MT-1 application.

This certificate is used only to certify building elevations. A separate certificate is required for floodproofing. Under the NFIP, non-residential buildings can be floodproofed up to or above the BFE. A floodproofed building is a building that has been designed and constructed to be watertight (substantially impermeable to floodwaters) below the BFE. Floodproofing of residential buildings is not permitted under the NFIP unless FEMA has granted the community an exception for residential floodproofed basements. The community must adopt standards for design and construction of floodproofed basements before FEMA will grant a basement exception. For both floodproofed non-residential buildings and residential floodproofed basements in communities that have been granted an exception by FEMA, a floodproofing certificate is required.

The expiration date on the form herein does not apply to certified and completed Elevation Certificates, as a completed Elevation Certificate does not expire, unless there is a physical change to the building that invalidates information in Section A Items A8 or A9, Section C, Section E, or Section H. In addition, this form is intended for the specific building referenced in Section A and is not invalidated by the transfer of building wmership.

Additional guidance can be found in FEMA Publication 467-1, Floodplain Management Bulletin: Elevation Certificate.

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

OMB Control No. 1660-0008 Expiration Date: 06/30/2026

ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

Сору	topy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.					
	SECTION A – PROPERTY INF	ORMATION		FOR INSURANCE COMPANY US		
A1.	Building Owner's Name:			Policy Number:		
A2.	Building Street Address (including Apt., Unit, Suite, and/o	or Bldg. No.) or P.O. Ro	oute and Box No.:	Company NAIC Number:		
City			State:	ZIP Code:		
A3.	Property Description (e.g., Lot and Block Numbers or I	Legal Description) and	d/or Tax Parcel Nur	nber:		
A4.	Building Use (e.g., Residential, Non-Residential, Additi					
A5.	Latitude/Longitude: Lat. Long.	Horiz	zontal Datum: 📃 N	IAD 1927 🔲 NAD 1983 📃 WGS 8		
A6.	Attach at least two and when possible four clear photo	graphs (one for each	side) of the building	g (see Form pages 7 and 8).		
A7.	Building Diagram Number:					
A8.	For a building with a crawlspace or enclosure(s):					
	a) Square footage of crawlspace or enclosure(s):		sq. ft.			
	b) Is there at least one permanent flood opening on two	<i>v</i> o different sides of ea	ach enclosed area?	Yes No N/A		
	c) Enter number of permanent flood openings in the constraints Non-engineered flood openings:	rawlspace or enclosur ingineered flood open		above adjacent grade:		
	d) Total net open area of non-engineered flood openin	ngs in A8.c:	sq. in.			
	e) Total rated area of engineered flood openings in A8	3.c (attach documenta	ation – see Instructio	ons): sq. ft.		
	f) Sum of A8.d and A8.e rated area (if applicable - se	e Instructions):	sq. ft.			
A9.	For a building with an attached garage:					
	a) Square footage of attached garage:	sq. ft.				
	b) Is there at least one permanent flood opening on two	vo different sides of th	e attached garage?	? Yes No N/A		
	c) Enter number of permanent flood openings in the at Non-engineered flood openings:	ttached garage within ingineered flood open		acent grade:		
	d) Total net open area of non-engineered flood openin	ngs in A9.c:	sq. in.			
	e) Total rated area of engineered flood openings in AS	e.c (attach documenta	ation – see Instructio	ons): sq. ft.		
	f) Sum of A9.d and A9.e rated area (if applicable - se	e Instructions):	sq. ft.			
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION						
B1.	a. NFIP Community Name:	B1.b. N	FIP Community Ide	ntification Number:		
B2.	County Name: B3.	. State: 💽 B	4. Map/Panel No.:	B5. Suffix:		
B6.	FIRM Index Date: B7. FIRM F	Panel Effective/Revise	ed Date:			
B8.	Flood Zone(s): B9. Base F	-lood Elevation(s) (BF	E) (Zone AO, use E	Base Flood Depth):		
B10	. Indicate the source of the BFE data or Base Flood De FIS FIRM Community Determined C		39:			
B1	. Indicate elevation datum used for BFE in Item B9:	NGVD 1929 📃 NA	VD 1988 📃 Other	/Source:		
B12	2. Is the building located in a Coastal Barrier Resources Designation Date: CBRS	s System (CBRS) area	a or Otherwise Prot	ected Area (OPA)? 🗌 Yes 📃 No		
B1:	 Is the building located seaward of the Limit of Modera 	ate Wave Action (LiM	WA)? 🗌 Yes 📃	No		

ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19 FOR INSURANCE COMPANY USE Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No .: Policy Number: 7IP Code City: State 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, AO, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO, A99. Complete Items C2.a-h below according to the Building Diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: Vertical Datum: Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 NAVD 1988 Other: Datum used for building elevations must be the same as that used for the BFE. Conversion factor used? 📃 Yes 📃 No If Yes, describe the source of the conversion factor in the Section D Comments area. Check the measurement used: a) Top of bottom floor (including basement, crawlspace, or enclosure floor): 📄 feet 📄 meters b) Top of the next higher floor (see Instructions): 📄 feet 📄 meters 📄 feet 📃 meters c) Bottom of the lowest horizontal structural member (see Instructions): 📄 feet 📄 meters d) Attached garage (top of slab): e) Lowest elevation of Machinery and Equipment (M&E) servicing the building (describe type of M&E and location in Section D Comments area): feet meters f) Lowest Adjacent Grade (LAG) next to building: Natural Finished 📄 feet 📄 meters g) Highest Adjacent Grade (HAG) next to building: Natural Finished 📃 feet 📃 meters h) Finished LAG at lowest elevation of attached deck or stairs, including structural support: 📄 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 state 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 and describe in the Comments area. Certifier's Name: License Number: Title: Company Name: Address: ZIP Code: City: State Date Signature: Place Seal Here Ext.: Email: Telephone: Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner. Comments (including source of conversion factor in C2; type of equipment and location per C2.e; and description of any attachments):

ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19 FOR INSURANCE COMPANY USE Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No .: Policy Number: City: State: ZIP Code: Company NAIC Number: SECTION E - BUILDING MEASUREMENT INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO, ZONE AR/AO, AND ZONE A (WITHOUT BFE) For Zones AO, AR/AO, and A (without BFE), complete Items E1-E5. For Items E1-E4, use natural grade, if available. If the Certificate is intended to support a Letter of Map Change request, complete Sections A, B, and C. Check the measurement used. In Puerto Rico only, enter meters. Building measurements are based on: Construction Drawings* Building Under Construction* Finished Construction *A new Elevation Certificate will be required when construction of the building is complete. E1. Provide measurements (C.2.a in applicable Building Diagram) for the following and check the appropriate boxes to show whether the measurement is above or below the natural HAG and the LAG. a) Top of bottom floor (including basement, crawlspace, or enclosure) is: feet meters above or below the HAG. b) Top of bottom floor (including basement, crawlspace, or enclosure) is: feet meters above or below the LAG. E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (C2.b in applicable Building Diagram) of the building is: feet meters above or below the HAG. E3. Attached garage (top of slab) is: feet meters above or below the HAG. E4. Top of platform of machinery and/or equipment servicing the building is: feet meters above or below the HAG. E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? 📋 Yes 📃 No 📃 Unknown 🛛 The local official must certify this information in Section G. SECTION F - PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge Check here if attachments and describe in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code: Date: Signature: Ext.: Email: Telephone: Comments:

ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

Buildin	ng Street Address (including Apt., Unit, S	Suite, and/or Bldg. No	o.) or P.O. Route a	nd Box No.:	FOR INS	URANCE COMPANY USE	
					Policy Nu	mber:	
City: _		State:	ZIP Code:		Company NAIC Number:		
	SECTION G - COMMUNITY INF	ORMATION (REC	OMMENDED F	OR COMMUN	ITY OFFICI	AL COMPLETION)	
	ocal official who is authorized by law or on A, B, C, E, G, or H of this Elevation					ordinance can complete	
G1.	The information in Section C was engineer, or architect who is aut elevation data in the Comments	norized by state law					
G2.a.	A local official completed Section E5 is completed for a building loc		ated in Zone A (w	ithout a BFE), Z	Zone AO, or Zo	one AR/AO, or when item	
G2.b.	A local official completed Section	H for insurance pu	rposes.				
G3.	In the Comments area of Section	G, the local official	describes specifi	c corrections to	the informatio	n in Sections A, B, E and ⊦	
G4.	The following information (Items	G5–G11) is provide	d for community f	loodplain manag	gement purpo:	ses.	
G5.	Permit Number:	G6. Dat	e Permit Issued:				
G7.	Date Certificate of Compliance/Occu	pancy Issued:					
G8.	This permit has been issued for:	New Construction	Substantial I	nprovement			
G9.a.	Elevation of as-built lowest floor (incl building:	uding basement) of	the	feet	meters	Datum:	
G9.b.	Elevation of bottom of as-built lowest member:	horizontal structura	al	feet	meters	Datum:	
G10.a	a. BFE (or depth in Zone AO) of floodin	g at the building site	e:	eet	eters	Datum:	
G10.b	 Community's minimum elevation (or requirement for the lowest floor or low 		ctural				
	member:			eet [meters	Datum:	
G11.	Variance issued? Yes No	If yes, attach doo	umentation and d	escribe in the C	omments area	а.	
	ocal official who provides information in to the best of my knowledge. If applie						
Local	Official's Name:		Titl	e:			
NFIP	Community Name:						
Telepł	hone: Ext.:	Email:					
Addre	ISS:						
City:				State:	🔽 ZIP C	lode:	
Signat	ture:		Date	¢			
	nents (including type of equipment and ons A, B, D, E, or H):	location, per C2.e;	description of any	attachments; a	nd corrections	s to specific information in	

ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

to determine the building's first floor height for insurance purposes. Sections A, B, and I must also be completed. Enter heights to the nearest tenth of a foot (nearest tenth of a meter in Puerto Rico). <i>Reference the Foundation Type Diagrams (at the end of Section I Instructions) and the appropriate Building Diagrams (at the end of Section I Instructions) to complete this section.</i> H1. Provide the height of the top of the floor (as indicated in Foundation Type Diagrams) above the Lowest Adjacent Crade (LAC): a) For Building Diagrams 1A, 1B, 3, and 5–9. Top of bottom floor (include above-grade floors only for buildings with subgrade crawlspaces or enclosure floors) is: b) For Building Diagrams 2A, 2B, 4, and 6–9. Top of next higher floor (i.e., the floor above basement, crawlspace, or enclosure floor) is: H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) for the appropriate Building Diagram? Yes No SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. The statements in Sec A, B, and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they shou indicate in item G2.b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code: Signature: Date:	City:	Building Str	reet Address (including	Apt., Unit, Suite,	and/or Bldg. No	.) or P.O. Route and	Box No.:	FOR IN	ISURANCE COMPANY US
Company NAIC Number: Company NAIC Numeer: Company NAIC Numeer: Company NAIC Numeer: Company	Company NAIC Number: Company NAIC NumAer: Company NAIC Number: Company NAIC NumAer: Company NAIC Number: Company NAIC Number: Company NAIC Number: Company NAIC Number: Company NAIC NumAer: Company	City			State	ZIP Code:		Policy N	lumber:
(SURVEY NOT REQUIRED) (FOR INSURANCE PURPOSES ONLY) The property owner, owner's authorized representative, or local floodplain management official may complete Section H for all flood z to determine the building's first floor height for insurance purposes. Sections A, B, and I must also be completed. Enter heights to the nearest tenth of a foot (nearest lenth of a meter in Puerto Rico). Reference the Foundation Type Diagrams (at the end of Section Instructions) and the appropriate Building Diagrams (at the end of Section I Instructions) to complete this section. H1. Provide the height of the top of the floor (as indicated in Foundation Type Diagrams) above the Lowest Adjacent Crade (LAC): a) For Building Diagrams 1A, 1B, 3, and 5–9. Top of bottom floor (include above-grade floors only for buildings with subgrade crawlspaces or enclosure floors) is: b) For Building Diagrams 2A, 2B, 4, and 6–9. Top of next higher floor (i.e., the floor above basement, crawlspace, or enclosure floor) is: H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) elevated to or above the floor indicated b H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) for the appropriate Building Diagram? We solution in the representative who completes Sections A, B, and H must sign here. The statements in Sect A, B, and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they shou indicate in Item G2 b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code:	(SURVEY NOT REQUIRED) (FOR INSURANCE PURPOSES ONLY) The property owner, owner's authorized representative, or local floodplain management official may complete Section H for all flood zor to determine the building's first floor height for insurance purposes. Sections A, B, and I must also be completed. Enter heights to the nearest tenth of a foot (nearest tenth of a meter in Puerto Rico). Reference the Foundation Type Diagrams (at the end of Section I Instructions) to complete this section. H1. Provide the height of the top of the floor (as indicated in Foundation Type Diagrams) above the Lowest Adjacent Crade (LAC): a) For Building Diagrams 1A, 1B, 3, and 5-9. Top of bottom feet meters above the LAG floor (include above-grade floors only for buildings with subgrade crawlspaces or enclosure floors) is: b) For Building Diagrams 2A, 2B, 4, and 6-9. Top of next feet meters above the LAG higher floor (i.e., the floor above basement, crawlspace, or enclosure floor) is: H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) for the appropriate Building Diagram? Yes No SECTION I - PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. The statements in Sectic A, B, A, B, and H moviedge. Note: If the local floodplain management official completed Section H, they should indicate in Item G2. b and sign Section G. Check here if attachments are provided (including required photos) and describe each	Oity						Compar	ny NAIC Number:
to determine the building's first floor height for insurance purposes. Sections A, B, and I must also be completed. Enter heights to the nearest tenth of a foot (nearest tenth of a meter in Puerto Rico). Reference the Foundation Type Diagrams (at the end of Section I Instructions) and the appropriate Building Diagrams (at the end of Section I Instructions) to complete this section. H1. Provide the height of the top of the floor (as indicated in Foundation Type Diagrams) above the Lowest Adjacent Crade (LAC): a) For Building Diagrams 1A, 1B, 3, and 5–9. Top of bottom floor (include above-grade floors only for buildings with subgrade crawlspaces or enclosure floors) is: b) For Building Diagrams 2A, 2B, 4, and 6–9. Top of next higher floor (i.e., the floor above basement, crawlspace, or enclosure floor) is: H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) for the appropriate Building Diagram? Ves No SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. The statements in Sec A, B, and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they shou indicate in item G2 b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: Signature: Date: Dat	to determine the building's first floor height for insurance purposes. Sections A, B, and I must also be completed. Enter heights to the nearest tenth of a foot (nearest tenth of a meter in Puerto Rico). <i>Reference the Foundation Type Diagrams (at the end of Section I Instructions) to complete this section.</i> H1. Provide the height of the top of the floor (as indicated in Foundation Type Diagrams) above the Lowest Adjacent Crade (LAG): a) For Building Diagrams 1A, 1B, 3, and 5–9. Top of bottom b) For Building Diagrams 2A, 2B, 4, and 6–9. Top of next higher floor (include above-grade floors only for building swith subgrade crawlspaces or enclosure floors) is: b) For Building Diagrams 2A, 2B, 4, and 6–9. Top of next higher floor (i.e., the floor above basement, crawlspace, or enclosure floor) is: H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) for the appropriate Building Diagram? H2 ws No SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. The statements in Sectio A, B, and H are correct to the best of my knowledge. Note: If the local floorplain management official completed Section H, they should indicate in Item G2. b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code: Signature: Telephone: Ext: Email:								ZONES
a) For Building Diagrams 1A, 1B, 3, and 5–9. Top of bottom floor (include above-grade floors only for buildings with subgrade crawlspaces or enclosure floors) is: b) For Building Diagrams 2A, 2B, 4, and 6–9. Top of next higher floor (i.e., the floor above basement, crawlspace, or enclosure floor) is: H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) elevated to or above the floor indicated b H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) for the appropriate Building Diagram? Yes No SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. The statements in Sec A, B, and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they shou indicate in Item G2.b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code: Signature: Date:	a) For Building Diagrams 1A, 1B, 3, and 5–9. Top of bottom floor (include above-grade floors only for buildings with subgrade crawtspaces or enclosure floors) is: b) For Building Diagrams 2A, 2B, 4, and 6–9. Top of next higher floor (i.e., the floor above basement, crawtspace, or enclosure floor) is: H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) elevated to or above the LAG H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) of the appropriate Building Diagram? Yes No SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. The statements in Sectic A, B, and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they should indicate in Item G2.b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code: Signature: Date: Telephone: Ext: Email:	to determin nearest ter	ne the building's first flo oth of a foot (nearest te	oor height for ins enth of a meter i	urance purpos n Puerto Rico).	es. Sections A, B, an Reference the Fou	d I must also ndation Typ	o be complete Diagrams	ted. Enter heights to the to (at the end of Section H
floor (include above-grade floors only for buildings with subgrade crawkspaces or enclosure floors) is: b) b) For Building Diagrams 2A, 2B, 4, and 6–9. Top of next higher floor (i.e., the floor above basement, crawkspace, or enclosure floor) is: iete meters above the LAG H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) elevated to or above the floor indicated b H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) for the appropriate Building Diagram? Yes No SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. The statements in Sec A, B, and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they shou indicate in Item G2.b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code: Signature: Date:	floor (include above-grade floors only for buildings with subgrade crawlspaces or enclosure floors) is: b) For Building Diagrams 2A, 2B, 4, and 6–9. Top of next higher floor (i.e., the floor above basement, crawlspace, or enclosure floor) is: H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) elevated to or above the floor indicated by H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) elevated to or above the floor indicated by H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) for the appropriate Building Diagram? Yes No SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. The statements in Sectid A, B, and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they should indicate in Item G2.b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code: Signature: Date: Telephone: Ext: Email:	H1. Provid	le the height of the top	of the floor (as	indicated in Fo	undation Type Diagra	ams) above t	the Lowest A	djacent Grade (LAG):
higher floor (i.e., the floor above basement, crawlspace, or enclosure floor) is: H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) elevated to or above the floor indicated b H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) for the appropriate Building Diagram? Y es No SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. The statements in Sec A. B, and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they should indicate in Item G2.b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code: Signature: Date:	higher floor (i.e., the floor above basement, crawlspace, or enclosure floor) is: H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) elevated to or above the floor indicated by H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) for the appropriate Building Diagram? Yes No SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. The statements in Sectic A, B, and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they should indicate in Item G2.b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code: Signature: Date: Telephone: Ext: Email:	floor (i	nclude above-grade flo	oors only for bui	dings with	om	feet	meters	above the LAG
H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) for the appropriate Building Diagram? Yes No SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. The statements in Sec A, B, and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they shouldidate in Item G2.b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code: Signature: Date:	H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) for the appropriate Building Diagram? Yes No SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. The statements in Sectio A, B, and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they should indicate in Item G2.b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code: City:	higher	floor (i.e., the floor ab			t	feet	meters	above the LAG
The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. The statements in Sec A, B, and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they shou indicate in Item G2.b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: VIP Code: Signature: Date:	The property owner or owner's authorized representative who completes Sections A, B, and H must sign here. The statements in Sector A, B, and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they should indicate in Item G2 b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: Signature: Telephone: Ext: Email:	H2 arr	ow (shown in the Four						
A. B. and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they shou indicate in Item G2.b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code: Signature: Date:	A. B, and H are correct to the best of my knowledge. Note: If the local floodplain management official completed Section H, they should indicate in Item G2.b and sign Section G. Check here if attachments are provided (including required photos) and describe each attachment in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: ZIP Code: Signature: Telephone: Ext.: Email:		SECTION I - PROP	ERTY OWNER		R'S AUTHORIZED	REPRESE	ENTATIVE)	CERTIFICATION
Address: City: State: ZIP Code: Signature: Date:	Address: City: State: ZIP Code: Signature: Date: Telephone: Ext.: Email:	A, B, and F indicate in	are correct to the bes Item G2.b and sign Se	st of my knowled ection G.	ige. Note: If the	e local floodplain mar	nagement off	ficial comple	ted Section H, they should
City: State: ZIP Code: Signature: Date:	City: State: ZIP Code: Signature: Date: Telephone: Ext.: Email:	Property O	wner or Owner's Autho	orized Represer	tative Name:				
Signature: Date:	Signature: Date: Date: Telephone: Ext.: Email:	Address:							
	Telephone: Ext.: Email:	City:					State:	IP ZIP	Code:
	Telephone: Ext.: Email:	Circuture				Detre			
		-		E.	Treels	Date:			
	Comments:			Ext	Email.				

ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19 BUILDING PHOTOGRAPHS

See Instructions for Item A6.

Building Street Addre:	ss (including Apt., Unit, Suite, and/or Bldg. No	o.) or P.O. Route and Box No.:	FOR INSURANCE C	COMPANY US
			Policy Number:	
City:	State:	ZIP Code:	Company NAIC Num	ber:
able to take front and "Right Side View," or	elow at least two and when possible four ph I back pictures of townhouses/rowhouses). "Left Side View." Photographs must show of representative flood openings or vents, a	Identify all photographs with the da the foundation. When flood openin	ate taken and "Front Vie gs are present, include a	w," "Rear View
		Photo One		
hoto One Caption:			С	lear Photo One
		Photo Two		

FEMA Form FF-206-FY-22-152 (formerly 086-0-33) (10/22)

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ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19 BUILDING PHOTOGRAPHS

Continuation Page

Building Street Address	(including Apt., Unit, Suite, and/or Bldg. N	o.) or P.O. Route and Box No.:	FOR INSURANC	E COMPANY USE
			Policy Number:	
City:	State:	ZIP Code:	Company NAIC N	lumber:
Insert the third and four View," or "Left Side Vie vents, as indicated in S	th photographs below. Identify all photo w." When flood openings are present, in ections A8 and A9.	graphs with the date taken and "Fro clude at least one close-up photogr	aph of representativ	אر" "Right Side e flood openings or
Photo Three Caption:		Photo Three		Clear Photo Three
		Photo Four		

FEMA Form FF-206-FY-22-152 (formerly 086-0-33) (10/22)

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DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency

INSTRUCTIONS FOR COMPLETING THE ELEVATION CERTIFICATE

The Elevation Certificate is to be completed by a land surveyor, engineer, or architect who is authorized by state law to certify elevation information when elevation information is required or used for Zones A1–A30, AE, AH, AO, A (with Base Flood Elevation (BFE)), VE, V1– V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO, or A99.

Community officials who are authorized by law or ordinance to provide floodplain management information (herein referred to as "local floodplain management official") may also complete this form. For Zones AO, ARIAO, and A (without BFE), a local floodplain management official, a property owner, or an owner's authorized representative may provide floodplain management compliance information on this certificate in Section E, unless the elevations are intended for use in supporting a request for a LOMA, CLOMA, LOMR-F, or CLOMR-F. Counter CLOMR-F. CLOMR-F. Or CLOMR-F. Or CLOMR-F. CLOMR-F. Or CLOMR-F. CLOMR

The property owner, the owner's authorized representative, or local floodplain management official can complete Section A and Section B. The partially completed form can then be given to the land surveyor, engineer, or architect to complete Section C. The land surveyor, engineer, or architect should verify the information provided by the property owner or owner's representative to ensure that this certificate is complete.

For insurance purposes only, a local floodplain management official, a property owner, or an owner's authorized representative may provide First Floor Height details in Section H for any zone.

In Puerto Rico only, elevations for building information and flood hazard information may be entered in meters.

Note: Section C can be used for insurance and compliance in any zone; however, Section E can be used only for compliance in Zone AO and Zone A.

SECTION A - PROPERTY INFORMATION

Items A1-A4. This section identifies the building, its location, and its owner. Enter the name(s) of the building owner(s), the building's complete street address is different from the owner's address, enter the address of the building bail or address is a firred from the owner's address, enter the address of the building bail or address is a firred. If the address is a rural route or a Post Office box number, enter the lot and block numbers, the tax parcel number, the legal description, or an abbreviated location description based on distance and direction from a fixed point of reference. For the purposes of this certificate, "building" means both a building and a manufactured (mobile) home. For properties with multiple buildings, include a description for the specific building.

A map may be attached to this certificate to show the location of the building on the property. Atax map, Flood Insurance Rate Map (FIRM), or detailed community map is appropriate. If no map is available, provide a sketch of the property location, and the location of the building on the property. Include appropriate landmarks such as nearby roads, intersections, and bodies of water. For building use, indicate whether the building is residential, non-residential, an addition to an existing residential or non-residential building, an accessory building (e.g., garage), or other type of structure. Use the Comments area of the appropriate section if needed, or attach additional comments.

Item A5. Provide latitude and longitude coordinates for the center of the front of the building. Use either decimal degrees (e.g., 39:304322°, -110.758522°) or degrees, minutes, seconds (e.g., 39° 30° 15.56°, -110° 45° 30.68°) format. If decimal degrees are used, provide coordinates to at least six decimal places or better. When using degrees, minutes, seconds, provide seconds to at least two decimal places or better. When using degrees minutes, seconds provide seconds to at least two decimal places or better. Provide the datum of the latitude and longitude coordinates (FEMA prefers the use of NAD 1983). Indicate the method or source used to determine the latitude and longitude in the Comments area of the appropriate section. When the latitude and longitude and longitude in the Comments area of the appropriate section. When the latitude and longitude method or source used to determine the latitude and longitude in the Comments area of the appropriate section. When the latitude and longitude in the Comments area of the appropriate section.

Item A6. The certifier must provide at least two and when possible four photographs showing each side of the building taken within 90 days from the date of certification. The photographs must be taken with views confirming the building description and Building Diagram number provided in Item A7. To the extent possible, these photographs should show the entire building including foundation. In addition, when applicable, provide a photograph of the foundation showing a representative example of the flood openings or vents. All photographs must be in color and measure at least 3"x3". Digital photographs are acceptable. Additional photographs may be requested by local floodbalm management officials or for insurance purposes to show additional detail reearding the building characteristics or features.

Item A7. Select the Building Diagram (shown on pages 17-19) that best represents the building. Then enter the diagram number and use the diagram to identify and determine the appropriate elevations requested in Items C2.a–h. If you are unsure of the correct diagram, select the diagram that most closely resembles the building being certified.

Item A8 a. Provide the square footage of the crawlspace or enclosure(s) below the lowest elevated floor of an elevated building with or without permanent flood openings. Take the measurement from the outside of the crawlspace or enclosure(s). Examples of elevated buildings constructed with crawlspace and enclosure(s) are shown in Diagrams 8-9 on pages 18-19. Diagram 2A, 2B, 4, or 9 should be used for a building constructed with a crawlspace floor that is below the exterior grade on all sides. If there is no crawlspace or enclosure, enter "NA" for Items A8.a.f.

Item A8.b. Indicate if there is at least one permanent flood opening within 1.0 foot of the adjacent grade on at least two exterior walls of each enclosed area identified in A8.a. A permanent flood opening is a flood vent or other opening that allows the free passage of water automatically in both directions without human intervention. If the crawlspace or enclosure(s) have no permanent flood openings, or if none of the openings are within 1.0 foot above adjacent grade, enter "0" (zero) in Item A8.c.f. If there is no crawlspace or enclosure, enter "UA".

SECTION A - PROPERTY INFORMATION (Continued)

Item A8.c. Enter the total number of permanent non-engineered and/or engineered flood openings in the crawlspace or enclosure(s) that are no higher than 1.0 foot above the higher of the exterior or interior grade or floor immediately below the opening. If the interior grade elevation is used note this in the Comments area of Section D.

Item A8.d. Enter the total measured net open area of permanent non-engineered flood openings indicated in A8.c in square inches, excluding any bars, louvers, or other covers of the permanent flood openings. Non-engineered openings that meet the requirements of NFIP Technical Bulletin 1 are assumed to provide one square foot of rated area for each square inch of net open area. If the net open area cannot be measured, provide in the Comments area of the appropriate section the size of the flood openings without consideration of any covers and indicate the type of cover that exists in the flood openings.

Item A8.e. Enter the total rated area of the permanent engineered flood openings indicated in A8.c, in square feet. Attach a copy of the Individual Engineered Flood Openings Certification for a specific building or an Evaluation Report Issued by the International Code Council Evaluation Service (ICC ES) for all engineered openings, and indicate the manufacturer's name and model number in the Comments area of the appropriate section, if applicable. Flood openings cannot be considered engineered flood openings without documentation. If no documentation is available/ provided, enter the net open (unobstructed) area of the flood openings in A8.d instead.

Item A8.f. Complete only if permanent engineered and permanent non-engineered flood openings are both present. Enter the sum of A8.d (net open area of all non-engineered openings) and A8.e (total rated area of all engineered openings). Non-engineered openings that meet the requirements of NIFIP Technical Bulletin 1 are assumed to provide one square foot of rated area for each square into of net open area. For example, a non-engineered opening with 140 sq. in. of net open area (i.e., rated for 140 sq. ft. of enclosure area), combined with two (2) engineered openings rated for 200 sq. ft. each, would yield 140 + 400 = 540 sq. ft. rated area. If either A8.d or A8.e is "OV, then enter "NA" for A8.ft

Item A9.a. Provide the square footage of the attached garage with or without permanent flood openings. Take the measurement from the outside of the garage. If there is no attached garage, enter "N/A" for items A9 a-f.

Item A9.b. Indicate if there is at least one permanent flood opening within 1.0 foot of the adjacent grade on at least two exterior walls of the attached garage identified in A9.a. If the attached garage has no permanent flood openings, or if none of the openings are within 1.0 foot above adjacent grade, enter "0" (zero) in Items A9.6-. If there is no attached garage, enter "NA".

Item A9.c. Enter the total number of permanent non-engineered and/or engineered flood openings in the attached garage that are no higher than 1.0 foot above the higher of the exterior or interior grade or floor immediately below the opening. This includes any openings that are in the garage door that are no higher than 1.0 foot above the adjacent grade. If the interior grade elevation is used, note this in the Comments area of Section D.

Item A9.d. Enter the total measured net open area of permanent non-engineered flood openings indicated in A9.c in square inches, excluding any bars, louvers, or other covers of the permanent flood openings, and enter the total in Item A9.d. Non-engineered openings that meet the requirements of NFIP Technical Bulletin 1 are assumed to provide one square floot of rated area for each square inch of net open area. If the net open area cannot be measured, provide in the Comments area of the appropriate section the size of the flood openings without consideration of any covers and indicate the type of cover that exists in the flood openings.

Item A9.e. Enter the total rated area of the permanent engineered flood openings indicated in A9.c in square feet. Attach a copy of the Individual Engineered Flood Openings Certification for a specific building or an Evaluation Report issued by the ICC ES for all engineered openings, and indicate the manufacturer's name and model number in the Comments area of the appropriate section, if applicable. Flood openings cannot be considered engineered flood openings without documentation. If no documentation is available/provided, enter the net open (unobstructed) area of the flood openings in A9.d instead.

Item A9.f. Complete only if permanent engineered and permanent non-engineered flood openings are both present. Enter the sum of A9 d (net open area of all non-engineered openings) and A9 e (total rated area of all engineered openings). Non-engineered openings that meet the requirements of NFIP Technical Bulletin 1 are assumed to provide one square foot of rated area for each square inch of net open area. For example, a non-engineered opening with 140 sq. in. of net open area (i.e., rated for 140 sq. ft of enclosure area), combined with two (2) engineered openings rated for 200 sq. ft each, would yield 140 + 400 = 540 sq.ft, rated area. If either A94 or A9 e is "0", then enter "N/A" for A94.f.

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

Complete the Elevation Certificate using the Flood Insurance Study (FIS) and FIRM in effect at the time of the certification.

The information for Section B is obtained by reviewing the FIS and the FIRM panel that includes the building's location. Information about the current FIS and FIRM is available from FEMA by visiting msc.tema.gov or contacting the local floodplain management official. If a Letter of Map Amendment (LOMA), Letter of Map Revision Based on Fill (LOMR-F), or Letter of Map Revision (LOMR) has been issued by FEMA, please provide the letter date and case number in the Comments area of Section D or Section G, as appropriate.

For a building in an area that was mapped in one community but is now in another community due to annexation or dissolution, enter the community name and six-digit Community Identification Number of the community in which the building is now located in Items B1.a and B1.b; the name of the county of new county, if necessary, in Item B2; and the FIRM index date for the community identified in B1.a, in Item B6. Enter information from the actual FIRM panel that shows the building location, even if it is the FIRM for the previous jurisdiction, in Items B4, B5, B7, B8, and B9.

If the map in effect at the time of the building's construction was other than the current FIRM, and you have the past map information pertaining to the building, provide the information in the Comments area of Section D.

Note: Indicate in the Comments area of Section D if using information based on best available data, such as base-level engineering or advisory flood hazard data (contact the local floodplain management official to confirm).

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION (Continued)

Items B1.a-b NFIP Community Name and Community Identification Number. Enter the complete name of the community in which the building is located in B1.a, and the associated six-digit Community Identification Number in B1.b. For an unincorporated area of a county, enter the county name and "unincorporated area", and the six-digit number of the county. For a newly incorporated community, use the name and six-digit number of the new community. Under the NFIP, a "community" is any state or area or political subdivision thereof, or any Indian tribe or authorized native organization which has authority to adopt and enforce floodplain management regulations for the areas within its jurisdiction. To determine the current community number, see the NFIP Community Status Book, available on FEMA's website at www.fema.gov/national-flood-insurance-program-community-status-book.

Item B2. County Name. Enter the name of the county or counties in which the community is located. For an unincorporated area of a county, enter the county name. For an independent city, enter "independent city."

Item B3. State. Enter the two-letter state abbreviation (for example, VA, TX, CA).

Items B4–B5. Map/Panel Number and Suffix. Enter the 10-character "Map Number" or "Community Panel Number" shown on the FIRM where the building or manufactured (mobile) home is located. For maps in a county-wide format, the sixth character of the "Map Number" is the letter "C" followed by a four-digit map number. For maps not in a county-wide format, enter the "Community Panel Number" shown on the FIRM.

Item B6. FIRM Index Date. Enter the effective date or the map revised date shown on the FIRM Index.

Item B7. FIRM Panel Effective/Revised Date. Enter the effective date shown on the current FIRM panel. The current FIRM panel effective date can be determined by visiting msc.fema.gov or contacting the local floodplain management official. If the area where the building is located was revised by a LOMR, include the LOMR effective date and the LOMR case number in the comments area of Section D.

Item B8. Flood Zone(s). Enter the flood zone, or flood zones, in which the building is located. All flood zones containing the letter "A" or "V" are considered Special Flood Hazard Areas (SFHAs). Each flood zone is defined in the legend of the FIRM panel on which it appears. If the area where the building is located was revised by a LOMA, CLOMA, LOMR-F, or CLOMR-F, include the flood zone shown on the LOMA, CLOMA, LOMR-F, or CLOMA, For CLOMA, For CLOMA, CLOMA, CLOMA, COMR-F, and add the effective date and case number in the comments area of Section D.

Item B9. Base Flood Elevation(s) (BFE). Using the appropriate Flood Insurance Study (FIS) Profile, FIS Data Table (e.g. Transect, Floodway, etc.), or FIRM panel, locate the property and enter the BFE (or base flood depth) of the building site to the nearest tenth of a meter, in Puerto Rico). If the building is located in more than one flood zone in Item B8, listall appropriate BFEs in Item B9.

BFEs are shown in the FIS or on a FIRM for Zones A1–A30, AE, AH, V1–V30, VE, AR, AR/A, AR/AE, AR/A1–A30, and AR/AH; base flood depths are shown for Zones AO and AR/AO. Use the AR BFE (or base flood depth) if the building is located in any of these zones: AR/A, AR/ AE, AR/A1–A30, AR/AH, or AR/AO.

In A or V zones where BFEs are not provided in the FIS or on the FIRM, BFEs may be available from another source. For example, the community may have established BFEs or obtained BFE data from other sources (e.g., Base Level Engineering) for the building site. For subdivisions and other developments of more than 50 lots or 5 acres in Zone A, establishment of BFEs is required by the community's floodplain management ordinance. If a BFE is obtained from another source, enter the BFE in Item B9. The BFE entered in Item B9 must be based on hydrologic and hydraulic analyses. In an A Zone where BFEs are not obtained from another source, enter N/A in Item B9 and complete Section E.

Item B10. Indicate the source of the BFE or base flood depth that you entered in Item B9. If the BFE is from a source other than the FIS, FIRM, or community, include the name of the study, the agency or company that produced it, and the date when the study was completed. Visit most feme ago or constant the local floodplain management official to access the current FIS and FIRM.

Item B11. Indicate the elevation datum to which the elevations on the applicable FIRM are referenced as shown on the map legend. The vertical datum is shown in the Map Legend and/or the Notes to Users on the FIRM.

Item B12. Indicate whether the building is located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA). OPAs are portions of coastal barriers that are owned by Federal, State, or local governments or by certain non-profit organizations and used primarily for natural resources protection. CBRS areas and OPAs are no longer shown on the FIRM; please use the maps available at www.fws.gov/cbra/maps/index.html to complete Item B12. Federal flood insurance is prohibited in designated CBRS areas or OPAs for buildings or manufactured (mobile) homes built or substantially improved after the date of the CBRS or OPA designation. For the first CBRS designations, that date is October 1, 1983. Information about CBRS areas and OPAs may be obtained on the FEMA website at www.fema.gov/national-flood-insurance-program/coastal-barrier-resources-system.

Item B13. Indicate whether the building is located seaward of the Limit of Moderate Wave Action (LiMWA). If the LiMWA is not shown on the FIRM, check the "No" box. Information about the LiMWA and other coastal flood zones may be obtained on the FEMA website at www.fema.gov/flood-maps/coastal/insurance-rate-maps.

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

Complete Section C if the building is located in any of Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, or A99. If the Certificate is being completed to demonstrate compliance with local floodplain management requirements, contact the local floodplain management official to find out any additional requirements. Section C may also be completed for insurance purposes to determine the building's First Floor Height in any flood zone (including Zones AO, AR/AO, B, C, X and D). In addition, complete Section C if this certificate is being used to support a request for a LOMA, CLOMA, LOMR+, or CLOMR+F.

To ensure that all required elevations are obtained, it may be necessary to physically enter the building (for instance, if the building has a basement or sunken living room, split-level construction, or Machinery and Equipment (M&E)).

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SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) (Continued)

Land surveyors may not be able to gain access to some crawlspaces to shoot the elevation of the crawlspace floor. If access to the crawlspace is limited or cannot be gained, follow one of these procedures.

- Use a yardstick or tape measure to measure the height from the floor of the crawlspace to the "next higher floor," and then subtract the crawlspace height from the elevation of the "next higher floor." If there is no access to the crawlspace, use the exterior grade next to the structure to measure the height of the crawlspace to the "next higher floor."
- Contact the local floodplain management official of the community in which the building is located. The community may have documentation of the elevation of the crawlspace floor as part of the permit issued for the building.
- If the property owner has documentation or knows the height of the crawlspace floor to the next higher floor, try to verify this by looking inside the crawlspace through any openings or vents.

In all three cases, use the Comments area of Section D to provide the elevation and a brief description of how the elevation was obtained.

Note: If any item does not apply to the building, enter "N/A" for not applicable.

Item C1. Indicate whether the elevations to be entered in this section are based on construction drawings, a building under construction, or finished construction. For either of the first two choices, a post-construction Elevation Certificate will be required when construction is complete. If the building is under construction, include only those elevations that can be surveyed in Items C2.a-h. Use the Comments area of Section D to provide elevations obtained from the construction plans or drawings. Select "Finished Construction" only when all M&E such as furnaces, water heaters, heat pumps, air conditioners, and elevators and their associated equipment have been installed and the grading around the building is completed.

Item C2. A field survey is required for Items C2.a-h. Most control networks will assign a unique identifier for each benchmark. For example, the National Geodetic Survey uses the Permanent Identifier (PID). For the benchmark utilized, provide the PID or other unique identifier assigned by the maintainer of the benchmark. For GPS survey, indicate the benchmark used for the base station, the Continuously Operating Reference Stations (CORS) sites used for an Online Positioning User Service (OPUS) solution (also attach the OPUS report), or the name of the Real Time Network used.

Also provide the vertical datum for the benchmark elevation. All elevations for the certificate, including the elevations for Items C2.a–h, must use the same datum on which the BFE is based. Show the conversion from the field survey datum used if it differs from the datum used for the BFE entered in Item B9 and indicate the conversion software used. Show the datum conversion, if applicable, in the Comments area of Section D.

For property experiencing ground subsidence, the most recent reference mark elevations must be used for determining building elevations. However, when subsidence is involved, the BFE should not be adjusted.

Note: Enter elevations in Items C2.a-h to the nearest tenth of a foot (nearest tenth of a meter, in Puerto Rico); if data is surveyed to the nearest hundredth, round to the nearest tenth.

Item C2.a. Enter the elevation measured at the top of the bottom floor (excluding the attached garage) indicated by the selected Building Diagram (Item A7). For buildings elevated on a crawlspace, Building Diagrams 8 and 9, enter the lowest elevation of the top of the crawlspace floor in Item C2.a, whether or not the crawlspace has permanent flood openings (flood vents).

Item C2.b. For Building Diagrams 2A through 9 in any flood zone, including Zones B, C, X, and D, enter the elevation measured at the top of the next higher floor (excluding the attached garage) indicated by the selected Building Diagram (Item A7). For buildings requiring more than two floors or levels to be surveyed, such as those with multiple floors or multi-level enclosures, enter the additional surveyed elevations and floor descriptions in the Section D Comments, and clarify which floors are entered as Item C2.a and C2.b.

Item C2.c. For floodplain management compliance, this elevation is required for all Building Diagrams 5 and 6 in V Zones in areas seaward of the LiMVW, and in other areas regulated for coastal flooding hazards. Enter the elevation measured at the bottom of the lowest horizontal structural member of the floor indicated by the selected Building Diagram (Item A7) or the figure below. This elevation can be entered for Building Diagrams 5 and 6 in any flood zone, including Zones B, C, X, and D. For Building Diagrams other than 5 and 6 (if applicable), enter the C2.c elevation as indicated in the figure below. *If this item does not apply to the building, enter "N/A" for not applicable*.

Item C2.d. If there is an attached garage, enter the lowest elevation for top of attached garage slab. (Because elevation for top of attached garage slab is self-explanatory, attached garages are not illustrated in the Building Diagrams.)

Item C2.e. Enter the lowest platform, floor, or ground elevation supporting the lowest electrical, heating, ventilation, plumbing, and air conditioning M&E and other utilities servicing the building, which may be located in an attached garage or enclosure or on an open utility platform. Note that elevations for the M&E items are required regardless of their location. Local floodplain management officials are required to ensure that *all* new M&E servicing the building are protected from flooding. Thus, local officials may require that elevation information for all M&E, including ductwork, be documented on the Elevation Certificate. If the M&E is mounted to a wall, pile, etc., enter the platform elevation of the M&E. Indicate the lowest M&E type and its general location (e.g., on floor inside garage, on platform affixed to exterior wall) in the Comments area of Section D or Section G, as appropriate.

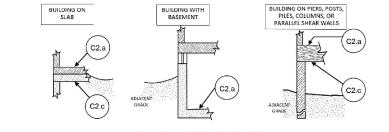
Note: For more guidance on floodplain management compliance for utilities, including M&E, refer to FEMA P-348, Protecting Building Utility Systems from Flood Damage. The list of M&E and the elevation requirements for documenting floodplain management compliance are different than the NFIP insurance M&E discount eligibility considerations. See Section H Instructions for additional information.

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) (Continued)

Item C2.f. Enter the finished Lowest Adjacent Grade (LAG) elevation of the ground, sidewalk, or patio slab next to and in direct contact with the building. For a building in Zone AO, use the natural grade elevation, if available. Indicate whether the natural or finished grade was used. If natural grade was used, attach the source of the information (e.g., a grading plan). For buildings under construction in any flood zone, enter the LAG elevation at the time of the survey. **Note:** Natural grade means the undisturbed natural surface of the ground prior to any eccavation or fill.

Item C2.g. Enter the finished Highest Adjacent Grade (HAG) elevation of the ground, sidewalk, or patio slab next to and in direct contact with the building. For a building in Zone AQ, use the natural grade elevation if available. Indicate whether the natural or finished grade was used. If natural grade was used, attach the source of the information (e.g., a grading plan). For buildings under construction in any flood zone, enter the HAG elevation at the time of the survey.

Item C2.h. Enter the finished LAG elevation of the lowest ground, sidewalk, or patio slab next to and in direct contact with the structurallyattached-deck supports or stairs structurally attached to the building. For buildings under construction in any flood zone, enter the lowest LAG at the time of the survey.



Figures for use in determining Item C2.c

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This section of the Elevation Certificate may be signed by only a land surveyor, engineer, or architect who is authorized by state law to certify elevation information. Complete as indicated and place your license number, your seal (as allowed by the state licensing board), your signature, and the date in Section D. You are certifying that the information on this certificate represents your best efforts to interpret the data available and that you understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. Use the Comments area of Section D to provide relevant and clarifying information not specified elsewhere on the certificate, including supporting information for lattude/longitude source for A5, openings for A8/A9, LOMR data for Section B, BFE and BFE source data for B9/B10; datum conversion for C2; grading plan for natural grade used in C2.f-g; machinery type and location for C2; and any other relevant information identified in the instructions or needed for clarification. If attachments are included, check the attachments box and describe the attachments in the Comments area.

SECTION E – BUILDING MEASUREMENT INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO, ZONE AR/AO, AND ZONE A (WITHOUT BFE)

Complete Section E if the building is located in Zone AO, Zone AR/AO, or Zone A (without BFE) and the Certificate is being completed for the purpose of documenting compliance with local floodplain management requirements. If the Certificate is being completed to document compliance in other flood zones, including Zone A (with BFE), to support a LOMA, CLOMA, LOMR-F, or CLOMR-F request, or to provide a ground elevation for flood insurance rating, complete Section C instead of Section E. Explain in the Section F Comments area if the measurement provided under Items E1–E4 is not based on the "natural grade." Natural grade means the undisturbed natural surface of the ground prior to any excavation or fill.

Indicate whether the measurements to be entered in this section are based on construction drawings, a building under construction, or finished construction. For either of the first two choices, a post-construction Elevation Certificate will be required when construction is complete. If the building is under construction, include only those measurements that can be determined in Items E¹-E4. Use the Comments area of Section F to provide measurements obtained from the construction plans or drawings. Select "Finished Construction" only when all Machinery and Equipment (M&E) such as furnaces, water heaters, heat pumps, air conditioners, and elevators and their associated equipment have been installed and the grading around the building is completed.

Note: Enter heights in Items E1-E4 to the nearest tenth of a foot (nearest tenth of a meter, in Puerto Rico).

Items E1.a and b. Enter in Item E1.a the height of the top of the bottom floor (as indicated by C2.a in the selected Building Diagram, Item A7) above or below the natural HAG. Enter in Item E1.b the height of the top of the bottom floor (as indicated by C2.a in the selected Building Diagram, Item A7) above or below the natural LAG. For buildings in Zone AO, the community's floodplain management ordinance requires the lowest floor of the building be elevated above the HAG at least as high as the base flood depth on the FIRM.

SECTION E – BUILDING MEASUREMENT INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE) (Continued)

Item E2. For Building Diagrams 6–9 with permanent flood openings (see pages 18–19), enter the height of the next higher floor or elevated floor (as indicated by C2.b in the selected Building Diagram, Item A7) above or below the HAG.

Item E3. Enter the height, in relation to the HAG next to the building, for the top of attached garage slab. (Because elevation for top of attached garage slab is self-explanatory, attached garages are not illustrated in the diagrams.) If this item does not apply to the building, enter "NA" for not applicable.

Item E4. Enter the height, in relation to the HAG next to the building, of the platform elevation that supports the M&E servicing the building. See Item C2.e for additional details on M&E. Indicate the M&E type in the Comments area of Section F.

Item E5. For those communities where this base flood depth is not available, the community will need to determine whether the top of the bottom floor is elevated in accordance with the community's floodplain management ordinance.

SECTION F - PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION

Complete as indicated. This section is provided for certification of measurements when completing Sections A, B, and E. If Section E is completed by a property owner or property owner's authorized representative in Zone AO, ARAO, or A (without BFE), then the community should confirm the heights in Section E to ensure compliance with community floodplain management rotinances. If Section E is completed by a local floodplain management official, then complete item G2 a and Section G instead of Section F. The address entered in this section must be the actual mailing address of the individual who provided the information on the certificate. Check the box as indicated if including attachments and describe in the Comments area.

SECTION G - COMMUNITY INFORMATION (RECOMMENDED FOR COMMUNITY OFFICIAL COMPLETION)

The community official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C, E, G or H of this Elevation Certificate and sign this section. Section C may be completed by the local official per the instructions below for Item G1.

Item G1. Check if Section C is completed with elevation data from other documentation that has been signed and sealed by a licensed land surveyor, engineer, or architect who is authorized by state law to certify elevation information. Indicate the source of the elevation data and the date obtained in the Comments area of Section G. If you are both a community official and a licensed land surveyor, engineer, or architect authorized by state law to certify elevation information, and you performed the actual survey for a building in any flood zones (including Zones A99, B, C, X and D), you must also complete Section D.

Item G2.a. Check if information is entered in Section E by the community for a building in Zone A (without a BFE), Zone AO, or Zone AR/ AO, or when the community certifies Item E5 for a building in Zone AO.

Item G2.b. Check if information is entered in Section H by the community for insurance purposes.

Item G3. Check if the community official is correcting information provided in Sections A, B, E and H. Describe corrections in the Comments area of Section G.

Item G4. Check if the information in Items G5–G11 has been completed for community floodplain management purposes to document the as-built lowest floor elevation of the building. Section C of the Elevation Certificate records the elevation of various building components but does not determine the lowest floor of the building or whether the building, as constructed, complies with the community's floodplain management ordinance. This must be done by the community. Items G5–G11 provide a way to document these determinations.

Item G5. Permit Number. Enter the permit number or other identifier to key the Elevation Certificate to the permit issued for the building.

Item G6. Date Permit Issued. Enter the date the permit was issued for the building.

Item G7. Date Certificate of Compliance/Occupancy Issued. Enter the date that the Certificate of Compliance or Occupancy or similar written official documentation of as-built lowest floor elevation was issued by the community as evidence that all work authorized by the floodplain development permit has been completed in accordance with the community's floodplain management laws or ordinances.

Item G8. New Construction or Substantial Improvement. Check the applicable box. "Substantial Improvement" means any reconstruction, rehabilitation, addition, or other improvement of a building, the cost of which equals or exceeds 50 percent of the market value of the building before the start of construction of the improvement (or meets the community's more restrictive standards, if applicable). The term includes buildings that have incurred substantial damage, regardless of the actual repair work performed.

Item G9.a. As-built lowest floor elevation. Enter the elevation of the lowest floor (including basement) when the construction of the building is completed and a final inspection has been made to confirm that the building is built in accordance with the permit, the approved plans, and the community's floodplain management laws or ordinances. Indicate the elevation datum used.

Item G9.b. As-built lowest horizontal structural member. Enter the elevation measured at the bottom of the lowest horizontal structural member of the floor indicated by the selected Building Diagram (Item A7) or in the figure at the end of the instructions for Section C. Indicate the elevation datum used.

SECTION G - COMMUNITY INFORMATION (RECOMMENDED FOR COMMUNITY OFFICIAL COMPLETION) (Continued)

Item G10.a. BFE. Using the appropriate FIRM panel, FIS, or other data source, locate the property and enter the BFE (or base flood depth) of the building site. Indicate the elevation datum used.

Item G10.b. Community's minimum elevation or depth requirement. Enter the elevation (including freeboard above the BFE) to which the community requires the lowest floor or the lowest horizontal structural member to be elevated. Indicate the elevation datum used.

Item G11. Indicate Yes if a variance from the floodplain management regulations (Title 44 CFR § 60.6) has been issued for the building, attach the supporting documentation, and describe the attachment in the Comments area of this section. If no such variance has been issued, indicate No.

Enter your name, title, and telephone number, and the name of the community and add any comments. Sign and enter the date in the appropriate blanks.

SECTION H – BUILDING'S FIRST FLOOR HEIGHT INFORMATION FOR ALL ZONES (SURVEY NOT REQUIRED) (FOR INSURANCE PURPOSES ONLY)

In any flood zone the property owner, owner's authorized representative, or local floodplain management official may complete this certificate for rating purposes to determine the building's first floor height and identify the elevation of Machinery and Equipment (M&E) servicing the building. Sections A, B, and I must also be completed.

Note: If Sections C and/or E and H are all completed, then information in Section C will prevail for insurance purposes and for compliance.

Item H1.a. For Building Diagrams 1A, 1B, 3, and 5–9 shown on pages 17–19, enter in Item H1.a the height to the nearest tenth of a foot (tenth of a meter in Puerto Rico) of the top of the bottom floor (as indicated in the selected Building Diagram, Item A7) above the LAG. Refer to the arrows on the Foundation Type Diagrams on page 16 that indicate which floor to use to determine the height for Item H1.a.

Item H1.b. For Building Diagrams 2A, 2B, 4, and 6–9 shown on pages 17–19, enter in Item H1.b the height to the nearest tenth of a foot (tenth of a meter in Puerto Rico) of the top of the next higher floor or elevated floor (as indicated in the selected Building Diagram, Item A7) above the LAG. Refer to the arrows on the Foundation Type Diagrams on page 16 that indicate which floor to use to determine the height for Item H1.b.

Note: The LAG is the lowest point of the ground level immediately next to a building.

Item H2. Indicate "Ves" if *all* of the following M&E servicing the building, inside or outside the bouiding, are elevated to at least the height of the location shown by the H2 arrow in the Foundation Type Diagrams on page 16: central air conditioner (including exterior compressor), furnace, heat pump (including exterior compressor), water heater, and elevator M&E. For contents-only insurance coverage, *all* of the following appliances will need to be elevated to at least the height of the location shown by the H2 arrow in the Foundation Type Diagrams below: clothes washers and dryers and food freezers.

Note: For both building and contents coverage, all of the M&E and appliances listed above must be elevated per the Foundation Type Diagrams on page 16 to be considered for the M&E mitigation discount.

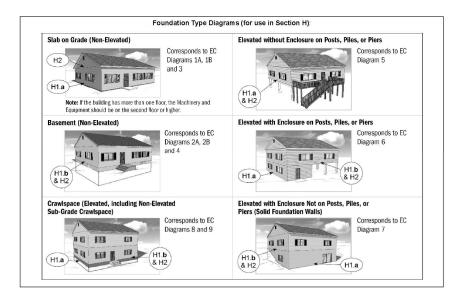
Indicate "No" if any of the M&E listed above is not elevated to at least the height of the location shown by the H2 arrow in the Foundation Type Diagrams on page 16.

The diagrams on the following page illustrate the six NFIP Foundation Type Diagrams. Each foundation type corresponds with one or more of the eleven Building Diagrams shown at the end of this Elevation Certificate. The arrows on the diagrams indicate which floor to use to determine H1. and H1. The arrows marked as H2 show the minimum elevation required to be eligible for the MEX mitigation discount.

SECTION I - PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESENTATIVE) CERTIFICATION

Complete as indicated. This section is provided for certification of measurements when completing Sections A, B, and H. If Section H is completed by a local floadplain management official, then complete Item G2.b and Section G instead of Section I. The address entered in this section must be the actual mailing address of the individual who provided the information on the certificate.

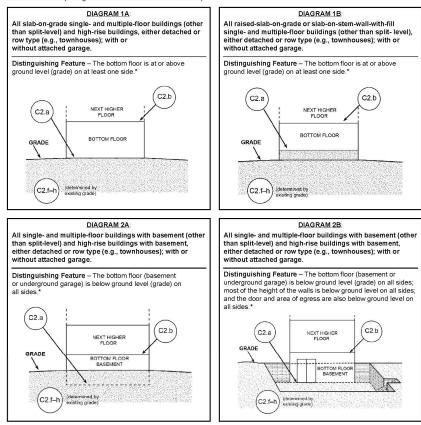
Check the box as indicated if including attachments (e.g., required photos) and describe in the Comments area.



BUILDING DIAGRAMS

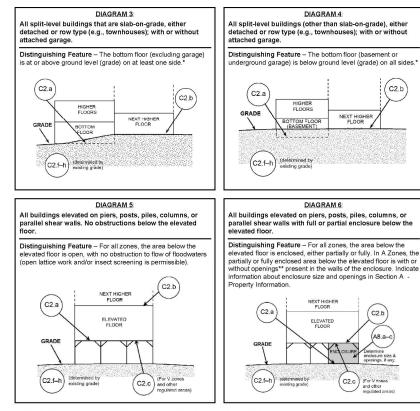
The following diagrams illustrate various types of buildings. Compare the features of the building being certified with the features shown in the diagrams and select the diagram most applicable. Enter the diagram number in Item A7, the square footage of crawlspace or enclosure(s) and the area of flood openings as indicated in Items A8, a–f, the square footage of attached garage and the area of flood openings as indicated in Items C2, a–h.

In A, B, C, X and D zones, the floor elevation is taken at the top finished surface of the floor indicated; in V zones, areas seaward of the LiMWA, and in other areas regulated for coastal flooding hazards, the floor elevation is taken at the bottom of the lowest horizontal structural member (see figure at end of instructions for Section C).



* A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.

BUILDING DIAGRAMS



* A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.

** An "opening" is a permanent opening that allows for the free passage of water automatically in both directions without human intervention. Under the NFIP, a minimum of two openings is required for enclosures or crawlspaces. The openings shall provide a total net area of not less than one square inch for every square food of area enclosed, excluding any bars, louvers, or other covers of the opening. Alternatively, an Individual Engineered Flood Openings Certification or an Evaluation Report issued by the ICC ES must be submitted to document that the design of the opening, will allow for the automatic equilization of hydrostatic flood forces on setticent walls. A window, a door, or a garage door is not considered an opening, weipings may be installed in doors. Openings shall be on at least two sides of the enclosed area. If a building has more than one enclosed area, each area must have openings to allow floodwater to directly enter. The bottom of the equenings, see NIPT technical Builtein 1.

BUILDING DIAGRAMS

DIAGRAM 7:

All buildings elevated on full-story foundation walls with a partially or fully enclosed area below the elevated floor. This includes walkout levels, where at least one side is at or above grade. The principal use of this building is located in the elevated floors of the building.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about enclosure size and openings in Section A - Property Information.

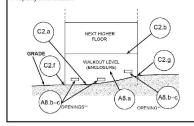


DIAGRAM 8: All buildings elevated on a crawlspace with the floor of the crawlspace at or above grade on at least one side, with or without an attached garage.

Distinguishing Feature – For all zones, the area below the first floor is enclosed by solid or partial perimeter walls. In all A zones, the crawlspace is with or without openings** present in the walls of the crawlspace. Indicate information about crawlspace size and openings in Section A - Property Information. (If the distance from the crawlspace floor to the top of the next higher floor is more than 5 feet, use Diagram 7.)

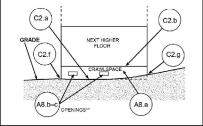
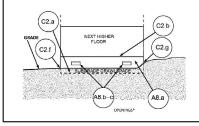


DIAGRAM 9: All buildings (other than split-level) elevated on a sub-grade crawlspace, with or without attached garage.

Distinguishing Feature – The bottom (crawlspace) floor is below ground level (grade) on all sides.* (If the distance from the crawlspace floor to the top of the next higher floor is more than five feet, or the crawlspace floor is more than two feet below the grade [LAG] on all sides, use Diagram 2A or 2B.)



* A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.

** An "opening" is a permanent opening that allows for the free passage of water automatically in both directions without human intervention. Under the NFIP, a minimum of two openings is required for enclosures or crawlspaces. The openings shall provide a total net area of not less than one square inch for every square food of area enclosed, excluding any bars, louvers, or other covers of the opening. Alternatively, an Individual Engineered Flood Openings Certification or an Evaluation Report issued by the ICC ES must be submitted to document that the design of the opening, will allow for the automatic equilazition of hydrostatic flood forces on exterior walls. A window, a door, or a garage door is not considered an opening, coenings may be installed in doors. Openings shall be on at least two sides of the enclosed area. If a building has more than one enclosed area, each area must have openings to allow floodwater to directly enter. The bottom of the enclosed area. If a building has more than one enclosed here are must have openings, see NIPT technical Builtetin 1.



Memo of Review for Correctness and Completion

The attached FEMA Elevation Certificate has been reviewed by this office. The items noted below are not correct on the attached form and should read as entered on this page.

- Building Address must be entered You must clearly show what corrections are made Signature and date must be on form.

SECTION A – PROPERTY INFORMATION					
A1. Building Owner's Name:					
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:					
City: State: ZIP Code:					
A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Number:					
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.):					
A5. Latitude/Longitude: Lat Long Horizontal Datum: 🗌 NAD 1927 🗍 NAD 1983 🗍 WGS 84					
A6. Attach at least two and when possible four clear photographs (one for each side) of the building (see Form pages 7 and 8).					
A7. Building Diagram Number:					
A8. For a building with a crawlspace or enclosure(s):					
a) Square footage of crawlspace or enclosure(s):sq. ft.					
b) Is there at least one permanent flood opening on two different sides of each enclosed area? 🗌 Yes 🗌 No 🗌 N/A					
c) Enter number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade: Non-engineered flood openings: Engineered flood openings:					
d) Total net open area of non-engineered flood openings in A8.c:sq. in.					
e) Total rated area of engineered flood openings in A8.c (attach documentation – see Instructions):sq. ft.					
f) Sum of A8.d and A8.e rated area (if applicable – see Instructions): sq. ft.					
A9. For a building with an attached garage:					
a) Square footage of attached garage:sq. ft					
b) Is there at least one permanent flood opening on two different sides of the attached garage? 🗌 Yes 🗌 No 🗌 N/A					
c) Enter number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade: Non-engineered flood openings: Engineered flood openings:					
d) Total net open area of non-engineered flood openings in A9.c:Sq. in.					
e) Total rated area of engineered flood openings in A9.c (attach documentation – see Instructions): sq. ft.					
f) Sum of A9.d and A9.e rated area (if applicable – see Instructions): sq. ft.					



SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1.a. NFIP Community Name:		B1.b. NFIP Community Identification	Number:	
B2. County Name:	B3. State:	B4. Map/Panel No.:	B5. Suffix:	
B6. FIRM Index Date:	B7. FIRM Panel Effect	ive/Revised Date:		
B8. Flood Zone(s):	B9. Base Flood Elevat	on(s) (BFE) (Zone AO, use Base Floo	d Depth):	
B10. Indicate the source of the BFE data or E		in Item B9:		
B11. Indicate elevation datum used for BFE	in Item B9: 🗌 NGVD 192	9 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:				
B13. Is the building located seaward of the L	imit of Moderate Wave Ac	ion (LiMWA)? 🗌 Yes 🗌 No		

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.

Local Official's Name	Title
Community Name	Telephone
Signature	Date

Comments