MAYOR
Karen L. Williams
CITY MANAGER
Heath Lloyd
CITY ATTORNEY
Craig Call



CITY COUNCIL
Wesley Bashlor
Michael Carpenter
Aaron C. Higgins
Thomas Hutcherson
M. Shannon Valim
John M. Wilcher

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. Bu	ilding Owner's Name:
A2. Bui	lding Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:
200 Wo	od Haven Court
City: P	Pooler State: GA ZIP Code: 31322
_	operty Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Number:
	ilding Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.):
A5. Lat	titude/Longitude: Lat Long Horizontal Datum: \[NAD 1927 \] \[NAD 1983 \] \[WGS 84
A6. Atta	ach at least two and when possible four clear photographs (one for each side) of the building (see Form pages 7 and 8).
A7. Bui	ilding Diagram Number:
A8. For	r 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 NA
,	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	r 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 NA
	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 N	lumber:
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	ion(s) (BFE) (Zone AO, use Base Flood	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	29 NAVD 1988 Other/Source:	
B12. Is the building located in a Coastal Barrie Designation Date:	er Resources System (C	BRS) area or Otherwise Protected Area	(OPA)? Yes No
B13. Is the building located seaward of the Lir	nit of Moderate Wave Ac	tion (LiMWA)?	
SECTION C - BU	ILDING ELEVATION	INFORMATION (SURVEY REQUIR	ED)
C1. Building elevations are based on: Caratra *A new Elevation Certificate will be required.			Finished Construction
Local Official's Name: Nicole Johnson, AICP, C	FM	Title: Director of Planning & Develop	pment
Community Name: City of Pooler		Telephone: 912-748-7261, ext 306	
Signature Mich Johnson	S (4)	Date: 10/2/2024	
Comments:			

G8 has been completed on the original EC, see attached.

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

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: LOGAN HOMES	Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 200 WOOD HAVEN COURT	Company NAIC Number:
City: POOLER State: GA	ZIP Code: 31322
A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Number 408 WESTBROOK PHASE 7 A	mber:
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.):	
A5. Latitude/Longitude: Lat. N 32 ° 04'17.63" Long. W 81° 17'46.00" Horizontal Datum:	IAD 1927 ⊠NAD 1983 □ WGS 84
A6. Attach at least two and when possible four clear photographs (one for each side) of the building	g (see Form pages 7 and 8).
A7. Building Diagram Number: 1A	
A8. For a building with a crawlspace or enclosure(s):	
a) Square footage of crawlspace or enclosure(s): 0.00 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 Non-engineered flood openings: 0 Engineered flood openings: 0	above adjacent grade:
d) Total net open area of non-engineered flood openings in A8.c: 0.00 sq. in.	
e) Total rated area of engineered flood openings in A8.c (attach documentation - see Instruction	ons): one 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: 529.00 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 adjated Non-engineered flood openings:0 Engineered flood openings:3	
d) Total net open area of non-engineered flood openings in A9.c: 0.00 sq. in.	
e) Total rated area of engineered flood openings in A9.c (attach documentation - see Instruction	ons): 600.00 sq. ft.
f) Sum of A9.d and A9.e rated area (if applicable – see Instructions): 600.00 sq. ft.	
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFO	RMATION
B1.a. NFIP Community Name: POOLER B1.b. NFIP Community Ide	ntification Number: 130261
B2. County Name: CHATHAM B3. State: GA B4. Map/Panel No.:	13051C0108 B5. Suffix: G
B6. FIRM Index Date: 08/16/2018 B7. FIRM Panel Effective/Revised Date: 08/16/20	18
B8. Flood Zone(s): AE B9. Base Flood Elevation(s) (BFE) (Zone AO, use B	Base Flood Depth): 14.2
B10. Indicate the source of the BFE data or Base Flood Depth entered in Item B9: TIS FIRM Community Determined Other:	
B11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other	/Source:
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Prote Designation Date: CBRS	ected Area (OPA)?
B13. Is the building located seaward of the Limit of Moderate Wave Action (LiMWA)? ☐ Yes ☒	No

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box	No.: FOR	RINSURANCE COMPANY USE		
200 WOOD HAVEN COURT	Polic	y Number:		
City: POOLER State: GA ZIP Code: 31322	Com	Company NAIC Number:		
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQU	JIRED)		
C1. Building elevations are based on: Construction Drawings* Building Under *A new Elevation Certificate will be required when construction of the building is com		☐ Finished Construction		
C2. Elevations – Zones A1–A30, AE, AH, AO, A (with BFE), VE, V1–V30, V (with BFE), A99. Complete Items C2.a–h below according to the Building Diagram specified in Items Benchmark Utilized: LOCAL Vertical Datum: NAV	em A7. In Puerto			
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 of Yes, describe the source of the conversion factor in the Section D Comments area.	on factor used?	☐ Yes ☒ No Check the measurement used:		
a) Top of bottom floor (including basement, crawlspace, or enclosure floor):	15.80	feet meters		
b) Top of the next higher floor (see Instructions):	24.90	☐ feet ☐ meters		
c) Bottom of the lowest horizontal structural member (see Instructions):	NIA	feet meters		
d) Attached garage (top of slab):	14.50			
 e) Lowest elevation of Machinery and Equipment (M&E) servicing the building (describe type of M&E and location in Section D Comments area): 	16.60			
f) Lowest Adjacent Grade (LAG) next to building: Natural X Finished	14.20			
g) Highest Adjacent Grade (HAG) next to building: Natural Finished	14.30			
 h) Finished LAG at lowest elevation of attached deck or stairs, including structural support: 	NA	feet meters		
SECTION D - SURVEYOR, ENGINEER, OR ARCHITEC	CT CERTIFICA	TION		
This certification is to be signed and sealed by a land surveyor, engineer, or architect auth information. I certify that the information on this Certificate represents my best efforts to in false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section	terpret the data a			
Were latitude and longitude in Section A provided by a licensed land surveyor? X Yes	□No			
Check here if attachments and describe in the Comments area.				
Certifier's Name: VINCENT HELMLY License Number: 1882				
Title: LAND SURVEYOR				
Company Name: VINCENT HELMLY	c h	· - Laa		
Address: 129 A BURTON ROAD		10/10/23		
City: SAVANNAH State: GA ZIP Code: 31-	405			
5:	12022			
Signature:	/2023	Place Seal Here		
Telephone: (912) 429-9395 Ext.: NA Erhail helmlyv@aol.com Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) in				
Comments (including source of conversion factor in C2; type of equipment and location pe				
C2 (e) = AIR CONDITION UNIT PLATFORM A 9(b), (c) & (e) = ENGINEERED FLOOD OPENINGS ARE SMART VENT MODI EACH				

City: POOLER	Building Street Address (including Apt., I	Unit, Suite, and/or Bldg. No.) or P.C). Route and I	Зох No.:	FOR INSURA	NCE COMPANY USE
SECTION E - BUILDING MEASUREMENT INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO, ZONE ARIAO, AND ZONE A (WITHOUT BFE). For Zones AO, ARIAO, 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, crawlispace, or enclosure) is: Get	200 WOOD HAVEN COURT	04-4-1 CA 715	20 1 240		Policy Number	
FOR ZONE AO, ZONE ARIAO, AND ZONE A (WITHOUT BFE). For Zones AO, ARIAO, 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. Bullding measurements are based on:	City: POOLER	State: GA ZIF	Code: 313	22	Company NAI	C Number:
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:	SECTION E - BU FOR	IILDING MEASUREMENT INF ZONE AO, ZONE AR/AO, AN	ORMATIOND ZONE A	N (SURVEY (WITHOUT	NOT REQUIRI BFE)	ED)
*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:	intended to support a Letter of Map Ch	BFE), complete Items E1–E5. For ange request, complete Sections	r Items E1–E A, B, and C.	4, use natural Check the me	grade, if available asurement used.	e. If the Certificate is In Puerto Rico only,
measurement is above or below the natural HAG and the LAG. a) Top of bottom floor (including basement, crawlspace, or enclosure) is:					on* 🗍 Finished	d Construction
crawlspace, or enclosure) is:	E1. Provide measurements (C.2.a in a measurement is above or below the	pplicable Building Diagram) for the enatural HAG and the LAG.	e following a	nd check the a	ppropriate boxes	s to show whether the
crawlspace, or enclosure) is:	 a) Top of bottom floor (including b crawlspace, or enclosure) is: 	asement,	[feet	meters	above or	below the HAG.
next higher floor (C2,b in applicable Building Diagram) of the building is:	 b) Top of bottom floor (including borner) crawlspace, or enclosure) is: 	asement,	[feet	meters	above or	below the LAG.
E3. Attached garage (top of slab) is:	next higher floor (C2.b in applicable	9	in Section A			
E4. Top of platform of machinery and/or equipment servicing the building is: feet					_	
servicing the building is:		er equipment	_ ieet	meters	☐ above or	Delow the HAG.
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: Telephone: Ext.: Email:	servicing the building is:	equipment	feet	meters	above or	below the HAG.
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: Telephone: Ext.: Email:	E5. Zone AO only: If no flood depth nur floodplain management ordinance?	mber is available, is the top of the ' ☐ Yes ☐ No ☐ Unkno	bottom floor wn The to			
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: Date: Telephone: Ext.: Email:	SECTION F - PROPERTY	OWNER (OR OWNER'S AU	THORIZED	REPRESEN	TATIVE) CERT	TFICATION
Check here if attachments and describe in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: State: Date: Telephone: Ext.: Email:	The property owner or owner's authorize	ed representative who completes	Sections A, I	B, and E for Zo	one A (without B	FE) or Zone AO must
Property Owner or Owner's Authorized Representative Name: Address:			ог ту клочи	eage		
Address:						
Signature: Date: Telephone: Ext.: Email:						
Telephone: Ext.: Email:	City:			State:	ZIP Code:	
Telephone: Ext.: Email:	Signature:		Date:			
Comments:	***************************************	Ext.: Email:				
	Comments:					

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and E	FOR INSURANCE COMPANY USE
200 WOOD HAVEN COURT City: POOLER State: GA ZIP Code: 3132	Policy Number:
	Company NAIC Number:
SECTION G - COMMUNITY INFORMATION (RECOMMENDED FOR	COMMUNITY OFFICIAL COMPLETION)
The local official who is authorized by law or ordinance to administer the community's Section A, B, C, E, G, or H of this Elevation Certificate. Complete the applicable item(
G1. The information in Section C was taken from other documentation that has engineer, or architect who is authorized by state law to certify elevation inf elevation data in the Comments area below.)	
G2.a. A local official completed Section E for a building located in Zone A (without E5 is completed for a building located in Zone AO.	ut a BFE), Zone AO, or Zone AR/AO, or when item
G2.b. A local official completed Section H for insurance purposes.	
G3. In the Comments area of Section G, the local official describes specific co	rections to the information in Sections A, B, E and H.
G4. The following information (Items G5–G11) is provided for community flood	plain management purposes.
G5. Permit Number: G6. Date Permit Issued:	
G7. Date Certificate of Compliance/Occupancy Issued:	
G8. This permit has been issued for: New Construction 🔲 Substantial Impro	vement
G9.a. Elevation of as-built lowest floor (including basement) of the building:	☐ feet ☐ meters Datum:
G9.b. Elevation of bottom of as-built lowest horizontal structural member:	feet meters Datum:
G10.a. BFE (or depth in Zone AO) of flooding at the building site:	feet meters Datum:
G10.b. Community's minimum elevation (or depth in Zone AO) requirement for the lowest floor or lowest horizontal structural member:	☐ feet ☐ meters Datum:
G11. Variance issued? Yes No If yes, attach documentation and descri	
· —	
The local official who provides information in Section G must sign here. I have comple correct to the best of my knowledge. If applicable, I have also provided specific correct	tions in the Comments area of this section.
Local Official's Name: Semboly Dyes, CFM Title:	zoning administrator
NFIP Community Name: City of Pooler	, ,
Telephone.912-748-7261 Ext.: 105 Email: Kdyer @ po	oler-ga.gu
Address: 100 8w Hwy . 80	
City: Pooler	State: 94 ZIP Code: 3132 2
Signature: Tubuy a Oyir Date:	10/17/23
Comments (including type of equipment and location, per C2.e; description of any atta Sections A, B, D, E, or H):	chments; and corrections to specific information in
*	

		pt., Unit, Suite	, and/or Bldg. No	o.) or P.O. Route an	d Box No.:	FOR IN	SURANCE COMPANY US
200 WOOD HAY	VEN COURT		State: GA	7100-4 2	1200	Policy N	umber:
City: POOLER			_ State:GA	ZIP Code: 3	1322	— Compar	y NAIC Number:
				OOR HEIGHT IN FOR INSURANC			ZÓNES
o determine the b learest tenth of a	ouilding's first floo foot (nearest tent	r height for in th of a meter i	surance purpos in Puerto Rico).	es. Sections A, B,	and I must als <i>undation Ty</i>	so be complet be <i>Diagrams</i>	Section H for all flood zone ed. Enter heights to the (at the end of Section H this section.
11. Provide the h	eight of the top o	f the floor (as	indicated in Fo	undation Type Diag	grams) above	the Lowest A	djacent Grade (LAG):
floor (include	ing Diagrams 1A above-grade floo wispaces or enclo	rs only for bu	ildings with	om	[] feet	meters	above the LAG
	ing Diagrams 2A .e., the floor abov or) is:			t	feet	meters	_ above the LAG
	own in the Founda			sted in Item H2 ins of Section H instruc			ove the floor indicated by the uilding Diagram?
						1000	
he property owners, B, and H are condicate in Item G2	er or owner's authornect to the best of 2.b and sign Section	norized repres of my knowled ion G.	sentative who codge. Note: If the	ompletes Sections e local floodplain m	A, B, and H n anagement o	nust sign here fficial complet	ed Section H, they should
he property owner, B, and H are condicate in Item G2 Check here if a	er or owner's authornect to the best of 2.b and sign Section attachments are per owner's Authority	norized represof my knowled ion G. rovided (inclused Represen	sentative who codge. Note: If the uding required potentiative Name:	e local floodplain m	A, B, and H n anagement o e each attach	nust sign here fficial complet ment in the C	. The statements in Section ed Section H, they should comments area.
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the property owner, B, and H are condicate in Item G2 Check here if a Property Owner or address:	er or owner's authornect to the best of 2.b and sign Section attachments are per Owner's Authorities.	norized represof my knowled ion G. rovided (incluzed Represen	sentative who codge. Note: If the uding required potative Name:	e local floodplain m	A, B, and H n anagement o e each attach	nust sign here fficial complet ment in the C	. The statements in Section ed Section H, they should comments area.
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the property owner, B, and H are condicate in Item G2 Check here if a property Owner or address: City: Cignature:	er or owner's authornect to the best of 2.b and sign Section attachments are per Owner's Authorities.	norized represof my knowled ion G. rovided (incluzed Represen	sentative who codge. Note: If the uding required potative Name:	e local floodplain m	A, B, and H n anagement o e each attach	nust sign here fficial complet ment in the C	. The statements in Section and Section H, they should comments area.
The property owner, B, and H are condicate in Item G2 Check here if a Property Owner or Address:	er or owner's authornect to the best of 2.b and sign Section attachments are per Owner's Authorities.	norized represof my knowled ion G. rovided (incluzed Represen	sentative who codge. Note: If the uding required potative Name:	e local floodplain m	A, B, and H n anagement o e each attach	nust sign here fficial complet ment in the C	. The statements in Section and Section H, they should comments area.
The property owner of A, B, and H are condicate in Item G2 Check here if a Property Owner or Address: City: Signature: Celephone:	er or owner's authornect to the best of 2.b and sign Section attachments are per Owner's Authorities.	norized represof my knowled ion G. rovided (incluzed Represen	sentative who codge. Note: If the uding required potative Name:	e local floodplain m	A, B, and H n anagement o e each attach	nust sign here fficial complet ment in the C	. The statements in Section and Section H, they should comments area.

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

See Instructions for Item A6.

Building Street Address (including	FOR INSURANCE COMPANY USE			
200 WOOD HAVEN COURT City: POOLER	State:	GA	ZIP Code: 31322	Policy Number:
ony. I oblin	State		ZIF COUC. 51522	Company NAIC Number:

Instructions: Insert below at least two and when possible four photographs showing each side of the building (for example, may only be able to take front and back pictures of townhouses/rowhouses). Identify all photographs with the date taken and "Front View," "Rear View," "Right Side View," or "Left Side View." Photographs must show the foundation. When flood openings are present, include at least one close-up photograph of representative flood openings or vents, as indicated in Sections A8 and A9.



Photo One

Photo One Caption: 10/10 / 2023

Clear Photo One



Photo Two

Photo Two Caption: 10 / 10 / 2023

Clear Photo Two

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

Continuation Page

Building Street Address (including Apt., Unit, Suite, a	ind/or Blo	dg. No.) d	or P.O. Route and Box No.:	FOR INSURANCE COMPANY USE
200 WOOD HAVEN COURT City: POOLER	State:	GA	ZIP Code: 31322	Policy Number:
	-			Company NAIC Number:
Insert the third and fourth photographs below. Iden View," or "Left Side View." When flood openings are vents, as indicated in Sections A8 and A9.	itify all pl	hotograp nt, includ	hs with the date taken and "Fro le at least one close-up photogr	nt View," "Rear View," "Right Side aph of representative flood openings or
				88
		Phot	o Three	
Photo Three Caption:				Clear Photo Three
				#:
		Phot	to Four	
Photo Four Caption:				Clear Photo Four



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ESR-2074

Reissued 02/2019 This report is subject to renewal 92/2021.

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; #1540-570; #1540-574;

#1540-524; #1540-514

FLOOD VENT SEALING KIT #1540-526



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ESR-2074

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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 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015, 2012, 2009 and 2006 International Building Code[®] (IBC)
- 2018, 2015, 2012, 2009 and 2006 International Residential Code® (IRC)
- 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 Verit[®] 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 the door to rotate out of the way and allow flow. The water level stabilizes, equalizing the lateral forces.

Each unit is fabricated from stainless steel. Smart Vent® Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

3.2 Engineered Opening:

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 2.8.2.2 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, yielding 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 recognized 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, 2009 IBC and IBC)], the Smart Vent® FVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 200 square

feet (18.6 m²) of enclosed area, except that the SmartVENT® Stacking Model #1540-511 and FloodVENT® 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 FloodVENT® 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 foot (50 Pa) based on 12.58 lineal feet (3.8 lineal 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. 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 October 2017).
- 6.2 Test report on air infiltration in accordance with ASTM E283.

7.0 IDENTIFICATION

- 7.1 The Smart VENT® models and the Flood Vent Sealing Kit recognized 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. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (877) 441-8368 www.smartvent.com info@smartvent.com

TABLE 1-MODEL SIZES

TABLE 1-19100	Er arrea	
HOREL MIMPER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
		200
1540-520		200
1540-510	153/4" X 73/4"	
	153/4" X 73/4"	200
		200
1540-514		200
1540-570		
	14" X 8 ³ /4"	200
1540-574		400
1540-511	16" X 16"	400
1540-521	16" X 16"	400
	1540-520 1540-510 1540-514 1540-514 1540-570 1540-574 1540-511	1540-520

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

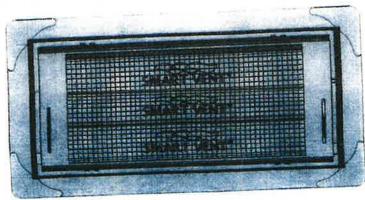


FIGURE 1-SMART VENT: MODEL 1540-610