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

ELEVATION CERTIFICATE	ION PAGES 1-11 agent/company, and (3) building owner. FOR INSURANCE COMPANY USE
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance SECTION A – PROPERTY INFORMATION	agent/company, and (3) building owner.
가는 것 같은 것 같	
A1. Building Owner's Name: GREEN HERRON, LLP	Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 610 LONGVIEW DRIVE (E-1585 FINAL TIM)	Company NAIC Number:
City: Town of Longboat Key State: FL	ZIP Code: 34228
A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Nur TAX PARCEL NUMBER: 0005080056 & 0005080057	nber:
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): Residential	•
A5. Latitude/Longitude: Lat. 27.373163 N Long82.628105 W Horiz. Datum:	NAD 1927 🛛 NAD 1983 🗌 WGS 84
A6. Attach at least two and when possible four clear color photographs (one for each side) of the bu	uilding (see Form pages 7 and 8).
A7. Building Diagram Number:6	
A8. For a building with a crawlspace or enclosure(s):	
a) Square footage of crawlspace or enclosure(s): 1,576 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:11	above adjacent grade:
d) Total net open area of non-engineered flood openings in A8.c: N/A sq. in.	
e) Total rated area of engineered flood openings in A8.c (attach documentation - see Instructio	ns):2,200 sq. ft.
f) Sum of A8.d and A8.e rated area (if applicable – see Instructions): 2,200 sq. ft.	
A9. For a building with an attached garage:	
a) Square footage of attached garage: N/A 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 Non-engineered flood openings: <u>N/A</u> Engineered flood openings: <u>N/A</u>	cent grade:
d) Total net open area of non-engineered flood openings in A9.c: N/A sq. in.	
e) Total rated area of engineered flood openings in A9.c (attach documentation – see Instruction	ns): N/A sq. ft.
f) Sum of A9.d and A9.e rated area (if applicable – see Instructions): N/A sq. ft.	
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFOR	MATION
B1.a. NFIP Community Name: Town of Longboat Key B1.b. NFIP Comm	uunity Identification Number: 125126
B2. County Name: Sarasota County B3. State: FL B4. Map/Panel No.: 12	
B6. FIRM Index Date: 11/04/2016 B7. FIRM Panel Effective/Revised Date: 11/04/201	
B8. Flood Zone(s): AE B9. Base Flood Elevation(s) (BFE) (Zone AO, use Ba	
310. Indicate the source of the BFE data or Base Flood Depth entered in Item B9: ☐ FIS	
B11. Indicate elevation datum used for BFE in Item B9: □ NGVD 1929 ⊠ NAVD 1988 □ Other/S	ource:
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protect Designation Date:	PTO A CONTRACTOR OF
B13. Is the building located seaward of the Limit of Moderate Wave Action (LiMWA)? □Yes ⊠ N	0

FEMA Form FF-206-FY-22-152 (formerly 086-0-33) (8/23)

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BLDG PERMIT PLANS FILE Copy of Record

ELEVATION CERTIFICATE

Building Street Address (including Apt., Unit, S 610 LONGVIEW DRIVE	uite, and/or Blo				FO	R INS	SURA	NCE	COMPAN	IY USI
City: Town of Longboat Key	Chatas		5 FINAL TI		Policy Number: Company NAIC Number:					
City. Town of Longboat Rey	State:	FL	ZIP Code:	34228						
SECTION C - BU	ILDING ELE	VATION	INFORMA	TION (SURVE	REQ	UIRE	ED)			
C1. Building elevations are based on: C1. A new Elevation Certificate will be required.	Construction D red when cons	rawings* struction	Buildin Dilding	g Under Constru g is complete.	ction*	F F	inishe	ed Cor	nstruction	
C2. Elevations – Zones A1–A30, AE, AH, AC A99. Complete Items C2.a–h below acc Benchmark Utilized: see "Comments"	ording to the B	uilding D	iagram specif	BFE), AR, AR/A ied in Item A7. In n: N.A.V.D. 198	Puerto	E, AR Rico	/A1–A only,	30, A enter	R/AH, AF meters.	₹/AO,
Indicate elevation datum used for the elevation		through I	n) below.							
Datum used for building elevations must be the If Yes, describe the source of the conversion	ne same as tha factor in the Se	at used fo ection D (r the BFE. Co Comments ar	onversion factor u ea.	ised?	Ch	Yes		No asuremer	ntuse
a) Top of bottom floor (including baseme	nt, crawlspace	e, or enclo	osure floor):		4.3	\boxtimes	feet		meters	11 4500
b) Top of the next higher floor (see Instru	ictions):				14.0	\boxtimes	feet		meters	
c) Bottom of the lowest horizontal structu	ıral member (s	ee Instru	ctions):		N/A		feet		meters	
d) Attached garage (top of slab):					N/A		feet		meters	
 e) Lowest elevation of Machinery and Eq (describe type of M&E and location in 	uipment (M&E Section D Con) servicir nments a	ig the building rea):]	11.3	\boxtimes	feet		meters	
f) Lowest Adjacent Grade (LAG) next to	building:	Natural	K Finished		3.6	\boxtimes	feet		meters	
g) Highest Adjacent Grade (HAG) next to	building:	Natural	Finished		3.9	\boxtimes	feet		meters	
h) Finished LAG at lowest elevation of att support:	ached deck or	stairs, in	cluding struc	tural	3.9	\boxtimes	feet		meters	
SECTION D - SU	RVEYOR, E	NGINEE	R, OR ARC	HITECT CERT	IFICAT	TION				N. 11 - 11
This certification is to be signed and sealed by nformation. I certify that the information on this false statement may be punishable by fine or it	a`land survey s Certificate re	or, engine presents	eer, or archite my best effor	ect authorized by ts to interpret the	state la	w to o	certify	eleva Inders	ition tand that	any
Nere latitude and longitude in Section A provic	led by a licens	ed land s	urveyor? 🕅	Yes 🗍 No						
☑ Check here if attachments and describe in t	he Comments	area.								
Certifier's Name: Leo Mills, Jr.		License	Number: LS	3513	[~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1000	allen]
itle: Professional Land Surveyor						april 1	N	ILL	S, JA	
Company Name: Leo Mills & Associates, Inc).				6			TIFI	CAT	8
Address: 620 8th Avenue West					- 8		° (- 0	E13	
Sity: Palmetto	Stat	e: FL	ZIP Cod	e: 34221	8	-	1	IO 3	EOF	Q
elephone: (941) 722-2460 Ext.:	Email: in	fo@leor	nills.com		- 82	REC.		FLC	DRIDA	
ignature: IIII WW CFM US-02	1-04190		Date: ()2/21/2024		Per s	place	Seal	HerdD	a lead
opy all pages of this Elevation Certificate and al		or (1) con	nmunity officia	l, (2) insurance ac	ient/cor	npany	, and	13100	ilding ow	ner.
omments (including source of conversion factorite Bench Mark: Nail & Bench Mark Tab L 8c: Number of engineered flood openings 2b: Elevation shown is for first livable floo ntry floor elevation = 4.6 Feet N.A.V.D. 19 ee Attachment #2 for additional notes. Se	or in C2; type o B 613 found include 1 int r. C2e: Eleva 988. See Atta	of equipm near site erior floe ation sho achment	ent and locat e - Elevation od opening. wm is for bo #1 for addit	ion per C2.e; and = 3.35 Feet N. C2a: Elevation ttom of Electrica ional photos	l descri A.V.D. shown al Brea	ption 198 is fo ker t	of any 8. or Gai box a	y attao rage long	chments) floor are interior v	:

FEMA Form FF-206-FY-22-152 (formerly 086-0-33) (8/23)

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ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

City: Town of Longboat Key State: FL ZIP Code: 24228 Company NAIC Number: SECTION E - BUILDING MEASUREMENT INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO, ZONE AN/AO, AND ZONE A. (Without BFE), complete Items E1-E5. For Items E1-E4, the network of the Certificate is intended to support a Letter of Map Change request, complete Sections A, B, and C. Check the messurement used. In Puerto Ricc 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. Finished Construction Finished Construction* a) Top of bottom floor (including basement, crawlspace, or enclosure) is:	Building Street Address (including Apt.,	Unit, Suite, and/or				Box No.:		FOR INSUR	ANCE COMPANY USE
Company NAIC Number:	610 LONGVIEW DRIVE							Policy Numbe	er:
FOR ZONE AO, ZONE AR/AO, AND ZONE A (WITHOUT BFE) For Zones AO, AR/AO, and A (without BFE), complete lisems ET-E5. For Items E1-E4, use natural grade, if available. If the Cartificate 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 (2.2.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 Ibigram) of the building is: feet	City: Town of Longboat Key	State	e:FL	ZIP Code:	342	28		Company NA	IC 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: Construction Drawings* Building measurements are based on: Construction Drawings* Building measurements are based on: Construction 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 b) Top of bottom floor (including basement, crawlspace, or enclosure) is: feet meters above or b) Top of bottom floor (including basement, crawlspace, or enclosure) is: feet erawlspace, or enclosure) is: feet erawlspace, or enclosure) is: feet entry 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 Instructions), the next higher floor (C2.b in applicable Building Diagram of machinery and/or equipment servicing the building is: feet effect meters above or below the HAG. E4. Top of platform of machinery and/or equipment servicing the building is: erotype 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? </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ED)</td>									ED)
 ¹A 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 Cl	BFE), complete Ite nange request, con	ems E1–E5 nplete Secti	For Items ons A, B, ar	E1E4 nd C. (4, use n Check ti	atural (he mea	grade, if availat asurement used	le. If the Certificate is I. 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:	Building measurements are based on: *A new Elevation Certificate will be rec	Construction	Drawings* uction of the	Buildin building is	g Und comp	ler Cons lete.	structio	n* 🗌 Finishe	d Construction
crawlspace, or enclosure) is:				or the follow	ing an	nd check	the ap	opropriate boxe	s to show whether the
crawlspace, or enclosure) is:		pasement,			feet	🗌 m	eters	above or	below the HAG.
next higher floor (C2.b in applicable Building Diagram) of the building is:		asement,			feet	🗌 me	eters	above or	below the LAG.
Building Diagram) of the building is:	E2. For Building Diagrams 6–9 with per	rmanent flood ope	nings provid	led in Secti	on A I	tems 8 a	and/or	9 (see pages 1	-2 of Instructions), the
E4. Top of platform of machinery and/or equipment servicing the building is:					feet	_ me	eters	above or	below the HAG.
servicing the building is: Servicing the building is: For 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? <	E3. Attached garage (top of slab) is:				feet	me	eters	above or	below the HAG.
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:		or equipment			feet	🗌 me	eters	above or	below 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: Ext.: Ext.: Ext.: Date:	E5. Zone AO only: If no flood depth nu floodplain management ordinance?								
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.: Brail: Signature: Date:	SECTION F - PROPERTY	OWNER (OR O	WNER'S A					-	
Check here if attachments and describe in the Comments area. Property Owner or Owner's Authorized Representative Name: Address: City: C	The property owner or owner's authoriz	ed representative v	who comple	tes Sections	s A, B,	andE	194 7 1 1		e defenderer anderer anderer anderer
Property Owner or Owner's Authorized Representative Name:				est of my kr	nowled	dge			
Address:									
City:		Representative Na	me:						
Telephone: Ext.: Email: Signature:									
Signature: Date:	-					State:		ZIP Code:	
	relephone:		:						
	Signature:			Date					
	Comments:							_	
				n.,,					

Build	ing Street Address (including Apt., Unit, Suite	and/or DL	da Nal-		Davida	FOR IN	SURANCE COMPANY US
	LONGVIEW DRIVE	e, and/or Bio		5 FINAL TIM)	Box No.:		umber:
City:	Town of Longboat Key	State:	FL	ZIP Code: 342	28		y NAIC Number:
	SECTION G - COMMUNITY INFOR	MATION (RECON	MENDED FOR	COMMU		IAL COMPLETION)
The lo	ocal official who is authorized by law or ord	The second second	A CONTRACTOR OF A CONTRACT OF	CALLER THE COMPLETE	2001.0-07.01.000		
Section	on A, B, C, E, G, or H of this Elevation Cert	ificate. Cor	nplete th	e applicable item	s) and sign	below when:	
G1.	The information in Section C was tak engineer, or architect who is authoriz elevation data in the Comments area	ed by state	her docur e law to c	mentation that ha ertify elevation in	s been sign formation. (ed and sealed Indicate the s	d by a licensed surveyor, ource and date of the
32.a.	A local official completed Section E f E5 is completed for a building located	or a buildin d in Zone A	g located O.	in Zone A (witho	ut a BFE), Z	Zone AO, or Z	cone AR/AO, or when item
G2.b.	A local official completed Section H f	or insuranc	e purpos	es.			
3 3.	In the Comments area of Section G,	the local of	ficial des	cribes specific co	rrections to	the informatio	on in Sections A, B, E and F
64.	The following information (Items G5-	G11) is pro	vided for	community flood	plain manag	gement purpo	ses.
3 5.	Permit Number:	G6.	Date Pe	mit Issued:			
67.	Date Certificate of Compliance/Occupance						
8.	This permit has been issued for:	v Construct	tion 🗌	Substantial Impro	vement		
9.a.	Elevation of as-built lowest floor (including building:	g basement	t) of the		feet	meters	Datum:
9.b.	Elevation of bottom of as-built lowest horiz member:	zontal struc	ctural		[] feet	meters	Datum:
10.a.	BFE (or depth in Zone AO) of flooding at t	he building	site:		feet	meters	Datum:
10.b.	Community's minimum elevation (or depth requirement for the lowest floor or lowest l	in Zone A norizontal s	O) structural		_		
	member:				feet	meters	Datum:
11.	Variance issued? Yes No If y	es, attach i	documen	tation and descri	be in the Co	mments area	
ne loc arrect	al official who provides information in Sect to the best of my knowledge. If applicable,	ion G must <i>I have also</i>	sign her provide	e. I have complet d specific correct	ed the infor ons in the C	mation in Sec. Comments are	tion G and certify that it is a of this section.
cal C	fficial's Name:			Title:			
FIP C	ommunity Name:						
lepho	one: Ext.:	Email:					
Idress	S:						3
y:					State:	ZIP Co	ode:
	re:						
mme	nts (including type of equipment and locati	on, per C2.	e: descri	otion of any attac	ments: and	1 corrections t	to specific information in
ctions	s A, B, D, E, or H):			,			

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ELEVATION CERTIFICATE
IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

Building Street Address (including Apt.,	Unit, Suite, and/or Bldg. No.) or I	P.O. Route and Box No.:	FOR INSURANCE COMPANY US
610 LONGVIEW DRIVE		FINAL TIM)	Policy Number:
City: Town of Longboat Key	State: FL	ZIP Code: 34228	Company NAIC Number:
	BUILDING'S FIRST FLOOR EY NOT REQUIRED) (FOR		
The property owner, owner's authorize to determine the building's first floor he nearest tenth of a foot (nearest tenth of <i>Instructions) and the appropriate Be</i>	eight for insurance purposes. Se f a meter in Puerto Rico). Refer	ctions A, B, and I must als rence the Foundation Typ	e Diagrams (at the end of Section H
H1. Provide the height of the top of the	e floor (as indicated in Foundation	on Type Diagrams) above t	the Lowest Adjacent Grade (LAG):
a) For Building Diagrams 1A, 1 floor (include above-grade floors of crawlspaces or enclosure floors) is	nly for buildings with	[] feet	meters above the LAG
b) For Building Diagrams 2A, 2B higher floor (i.e., the floor above ba enclosure floor) is:	3, 4, and 6–9. Top of next asement, crawlspace, or	feet	meters above the LAG
H2. Is all Machinery and Equipment se H2 arrow (shown in the Foundation Yes No			ated to or above the floor indicated by the propriate Building Diagram?
SECTION I - PROPERTY	OWNER (OR OWNER'S A	JTHORIZED REPRESE	NTATIVE) CERTIFICATION
The property owner or owner's authoriz A, <i>B, and H are correct to the best of m</i> ndicate in Item G2.b and sign Section (y knowledge. Note: If the local t	es Sections A, B, and H mu loodplain management offi	ist sign here. <i>The statements in Sections</i> cial completed Section H, they should
Check here if attachments are provi	ded (including required photos)	and describe each attachm	ent in the Comments area
Property Owner or Owner's Authorized			
21		State:	ZIP Code:
	Ext.: Email:		
Signature:		Date:	
Comments:			

x

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ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11 BUILDING PHOTOGRAPHS

See Instructions for Item A6.

	See	e Instructions for Item A6.	
Building Street Address (including Apt., Unit, 610 LONGVIEW DRIVE	Suite, and/or Blo	dg. No.) or P.O. Route and Box №.: (E-1585 FINAL TIM)	FOR INSURANCE COMPANY US
City: Town of Longboat Key	State:		Policy Number:
Instructions: Insert below at least two and w able to take front and back pictures of town "Right Side View," or "Left Side View." Phot close-up photograph of representative flood	houses/rowhous ographs must s	ses). Identify all photographs with the one of the foundation. When flood opening the foundation with the flood opening	date taken and "Front View," "Rear View
		Photo One	
hoto One Caption: FRONT VIEW			Clear Photo One
		Photo Two	Clear Photo Two
noto Two Caption: REAR VIEW			

x

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ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11 BUILDING PHOTOGRAPHS

Continuation Page

	Continuation Page	
Building Street Address (including Apt., Unit 610 LONGVIEW DRIVE	, Suite, and/or Bldg. No.) or P.O. Route and Box N (E-1585 FINAL TIM)	
City: Town of Longboat Key	State: FL ZIP Code: 34228	Policy Number:
		Company NAIC Number:
rents, as indicated in Sections A8 and A9.		
	Photo Three	
noto Three Caption: RIGHT VIEW		Clear Photo Three

Photo Four

Photo Four Caption: LEFT VIEW

Clear Photo Four

ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19 **BUILDING PHOTOGRAPHS – ATTACHMENT 1** See Instructions for Item A6. Building Street Address (including Apt, Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 610 LONGVIEW DRIVE (E1585) FOR INSURANCE COMPANY USE Policy Number: City: LONGBOAT KEY ZIP Code: 34228 State: FL 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/row houses. 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, included at least one closeup photograph of representative flood openings or vents, as indicated in Section A8 and A9. Photo Five Caption: Outside of Flood Opening Photo Six Caption: Inside of Flood Opening

ATTACHMENT SHEET 2

E-1585

GREEN HERON LLP 610 LONGVIEW DRIVE, LONGBOAT KEY FLORIDA 34228

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

It is the responsibility of the reviewer (Insurance Agents, Building Officials, etc) of this elevation certificate to analyze all of the data given in conjunction with a site visit to determine the proper Building Diagram Number (Item A7). The building diagram number shown in Item A7 is given as determined by the certificate preparer and should not be used for insurance rating or building compliance purposes unless verified by reviewer

ADDITIONAL COMMENTS:

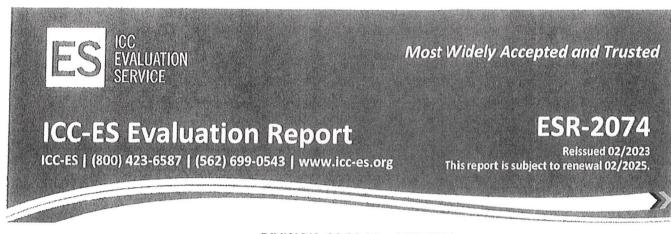
A8c: NUMBER SHOWN REPRESENTS THE TOTAL SQUARE INCHES OF THE 11 FLOOD OPENINGS, WHICH INCLUDES 1 ENGINEERED OPENING ON AN INTERIOR WALL. SMART VENT MODEL NUMBER 1540-520 IS INSTALLED IN EACH OPENING. ICC-ES REPORT# ESR-2074 INDICATES A FLOW RATE OF 200 SQUARE INCHES FOR THIS MODEL (SEE ATTACHED). CALCULATIONS FOR FLOW RATES PROVIDED HEREON ARE BASED ON INFORMATION ESTABLISHED BY OTHERS AND ARE NOT CERTIFIED AS ACCURATE BY THE SIGNING SURVEYOR.

Leo Mills & Associates, Inc.

Date: 02-21-24

Leo Mills, Jr. Professional Surveyor and Mapper Florida Certificate Number 3513

ATTACHMENT SHEET 3



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



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



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

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)[†]

 $^t \mbox{The ADIBC}$ 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

- I-Codes provide recognition
- Specialty code recognition

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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 2.6.2.2 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, 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 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:

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- 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 February 2021).
- 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 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-MOL	JEL SIZES	
MODEL NAME	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
FloodVENT®	1540-520	15 ³ /4" X 7 ³ /4"	200
SmartVENT®	1540-510	15 ³ /4" X 7 ³ /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 8 ³ /4"	200
SmartVENT [®] Stacker	1540-511	16" X 16"	400
FloodVent [®] Stacker	1540-521	16" X 16"	400

TABLE 1-MODEL SIZES

For SI: 1 inch = 25.4 mm; 1 square foot = m^2

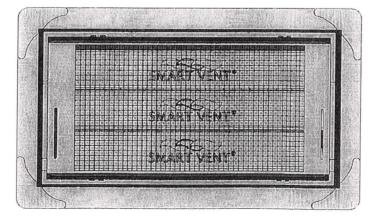


FIGURE 1-SMART VENT: MODEL 1540-510

