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

CB20-03730

US 20. 03130

OMB No. 1660-0008

Expiration Date: November 30, 2022

40,4933

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

	SECT	ION A - PROPERTY II	NFORM	IATION		FOR INSUR	ANCE COMPANY USE	
A1	Building Owner's Name					Policy Numl	per:	
	Taylor Morrison of Florida Inc							
A2	A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 2410 Coral Ct Company NAIC Number:							
	City			State		ZIP Code		
	Indian Rocks Beach			FL		33785		
A3	A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 2 Walk at Indian Rocks Beach PB 144 (Pgs 23-24) Permit # CB20-03730							
A4	A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential - Unit in Attached Townhome							
A5	Latitude/Longitude: Lat.	N27°54'23.6"	.ong	W82°50'47.4 "	Horizontal Datum	: NAD 1	927 🔀 NAD 1983	
A6	. Attach at least 2 photograph	ns of the building if the C	Certifica	te is being used to	obtain flood insura	nce.		
A7	Building Diagram Number	7						
A8	For a building with a crawls	oace or enclosure(s):						
	a) Square footage of crawle	space or enclosure(s)		704 sq ft				
	b) Number of permanent flo	ood openings in the crav	wlspace	or enclosure(s) wi	ithin 1.0 foot above	adjacent gra	ade8	
	c) Total net area of flood or	penings in A8.b179)2_s	ı in				
	d) Engineered flood opening	gs? 🛛 Yes 🗌 No)					
A9	. For a building with an attach	ned garage:						
	a) Square footage of attach	ed garage <u>N/A</u>	s	q ft				
	b) Number of permanent flo	ood openings in the atta	ched ga	arage within 1.0 foo	ot above adjacent g	rade	N/A	
	c) Total net area of flood or	enings in A9.bN/	/A	sq in				
	d) Engineered flood opening	gs? 🗌 Yes 🗵 No)					
		CTION B – FLOOD IN	SHPAI	NCE BATE MAP	(FIRM) INFORMA	TION		
D4			JUICA	B2. County Name			B3. State	
BI	. NFIP Community Name & C			Pinellas Cou			FL	
	City of Indian Rocks Bea	ch 125117		Fillelias Cou	<u> </u>			
B4.	Map/Panel B5. Suffix Number	B6. FIRM Index Date	Eff	RM Panel ective/ vised Date	B8. Flood Zone(s)	(Zor	e Flood Elevation(s) ne AO, use Base nd Depth)	
1	2103C0111 G	08/18/2009	(09/03/2003	AE		11.4'	
B1	B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: FIS Profile FIRM Community Determined Other/Source: SEE COMMENTS							
	B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source:							
В1	1. Indicate elevation datum ւ	sed for BFE in Item B9:	B11. Indicate elevation datum used for BFE in item B9: NGVD 1929 X NAVD 1930 Circles Source. B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No					
						-	DPA)? ☐ Yes ☒ No	
	Is the building located in a	Coastal Barrier Resour	rces Sy	stem (CBRS) area		-	DPA)? ☐ Yes ☑ No	
		Coastal Barrier Resour				-	DPA)? Yes No	

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

PORTANT: In these spaces, copy the corresponding information from Section A. FOR INSURANCE COMPARIBIDITY	
State ZIP Code State ZIP Code Company NAIC Number	
State FL 33785 SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) 1. Building elevations are based on: *A new Elevation Certificate will be required when construction of the building is complete. *A new Elevation Certificate will be required when construction of the building is complete. *A new Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AF Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: Box in GI @ NE Com Lot 4 Elev = 4.01' Vertical Datum: NAVD 1988 Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 X NAVD 1988 Other/Source: Datum used for building elevations must be the same as that used for the BFE. Check the measureme a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 5. 8 X feet meters in the complete in the com	
SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) *A new Elevations are based on: Construction of the building is complete. *A new Elevation Section Section of the building is complete. *A new Elevation Section Section of the building is complete. *A new Elevation Section Section of the building is complete. *A new Elevation Section Section of the building is complete. *A new Elevation Section Section of the building is complete. *A new Elevation Section Section of the building is complete. *A new Elevation Section Sect	
SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) 21. Building elevations are based on:	
21. 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. *A new Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AF Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: Box in GI @ NE Corn Lot 4 Elev = 4.01' Vertical Datum: NAVD 1988 Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 X NAVD 1988 Other/Source: Datum used for building elevations must be the same as that used for the BFE. Check the measureme a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 5.8 X feet meters.	
*A new Elevation Certificate will be required when construction of the building is complete. *Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AF Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: Box in GI @ NE Com Lot 4 Elev = 4.01' Vertical Datum: NAVD 1988 Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 X NAVD 1988 Other/Source: Datum used for building elevations must be the same as that used for the BFE. Check the measureme a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 5.8 X feet metals feet metals for the next higher floor	R/AO.
22. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AN, AN, Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: Box in GI @ NE Com Lot 4 Elev = 4.01' Vertical Datum: NAVD 1988 Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 X NAVD 1988 Other/Source: Datum used for building elevations must be the same as that used for the BFE. Check the measureme a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 5.8 X feet met 16.5 X feet met	
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Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 X NAVD 1988 Other/Source: Datum used for building elevations must be the same as that used for the BFE. Check the measureme a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 5.8 X feet met b) Top of the next higher floor	
□ NGVD 1929 ☒ NAVD 1988 □ Other/Source: Datum used for building elevations must be the same as that used for the BFE. Check the measureme a) Top of bottom floor (including basement, crawlspace, or enclosure floor) □ 5.8 ☒ feet □ met b) Top of the next higher floor	
Datum used for building elevations must be the same as that used for the BPE. Check the measureme a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 5.8 X feet met b) Top of the next higher floor	
a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 5.8 X feet met b) Top of the next higher floor	nt used.
b) Top of the next higher floor	ers
b) Top of the next higher floor N/A feet met	ers
	ers
	ters
d) Attached garage (top of slab)	ters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	ters
f) Lowest adjacent (finished) grade next to building (LAG)	ters
g) Highest adjacent (finished) grade next to building (HAG)	
h) Lowest adjacent grade at lowest elevation of deck or stairs, includingN/A	ters
A COLON D. SUBVEYOR ENGINEER OR ARCHITECT CERTIFICATION	tion
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation in a large state of the last and	
were latitude and longitude in Section A provided by a licensed land surveyor? Yes No Check here if attack Yes No	mments.
License Number	
Certifier's Name	/
Scott R. Fowler Title Professional Surveyor and Mapper Company Name Landmark Engineering & Surveying Corp.	
Title	
Professional Surveyor and Mapper Company Name	
Landmark Engineering & Surveying Corp.	
Address	
8515 Palm River Road	1
State ZIP Code LS5185 //7/	2021
Tampa FL 33019	
Date Telephone	
	uilding own
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) by	anding con-
Comments (including type of equipment and location, per C2(e), if applicable) Not valid without the original signature and seal of a Florida Registered Surveyor and Mapper or Electronic equivalent. Date of Field Work: 12/08/2020 Not valid without the original signature and seal of a Florida Registered Surveyor and Mapper or Electronic equivalent. Date of Field Work: 12/08/2020 Longitude obtained with a hand held GPS device. The equipment referenced in C2e is the air conditioner, located outside the structure, along the le Longitude obtained with a hand held GPS device. The equipment referenced in C2e is the air conditioner, located outside the structure, along the le Longitude obtained with a hand held GPS device. The equipment referenced in C2e is the air conditioner, located outside the structure, along the le Longitude obtained vents (model 1540-520) In the enclosure walls each ce total net area of flood openings in A8c is calculated as follows: 3 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insulated Flood Vents (model 1540-520) and 2 Smart Vent Insul	20. Latitude a ft side wall. T rtified to han I) in the
Linnahaur porgosiusiu	
F0	

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corres	ponding information	n from Section A.	FOR INSURAN	ICE COMPANY USE		
Building Street Address (including Apt., Unit, Suit			Policy Number	:		
0 Coral Ct		<u></u>		and the first state of the stat		
Сиу	State	ZIP Code	Company NAI	C Number		
Indian Rocks Beach	FL	33785	OT DECLUDED)			
SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)						
For Zones AO and A (without BFE), complete Iter complete Sections A, B,and C. For Items E1–E4, enter meters. E1. Provide elevation information for the following	use natural grade, if	available. Check the meas	urement used. In Pi	uerto Rico only,		
the highest adjacent grade (HAG) and the lo a) Top of bottom floor (including basement, crawlspace, or enclosure) is	west adjacent grade	(LAG).				
b) Top of bottom floor (including basement, crawlspace, or enclosure) is				r below the LAG.		
E2. For Building Diagrams 6–9 with permanent f the next higher floor (elevation C2.b in the diagrams) of the building is	lood openings provid		d/or 9 (see pages 1- eters			
E3. Attached garage (top of slab) is		feet [] m	eters 🔲 above o	r Delow the HAG.		
E4. Top of platform of machinery and/or equipment servicing the building is	ent =======	feet m	eters 🔲 above o	r Delow the HAG.		
E5. Zone AO only: If no flood depth number is a floodplain management ordinance?	vailable, is the top of	the bottom floor elevated ir nown. The local official mi	n accordance with thus the certify this inform	ne community's nation in Section G.		
SECTION F - PROPERTY	Y OWNER (OR OWN	ER'S REPRESENTATIVE) CERTIFICATION			
e property owner or owner's authorized repres community-issued BFE) or Zone AO must sign h	entative who completere. The statements i	tes Sections A, B, and E fo n Sections A, B, and E are	r Zone A (without a correct to the best	FEMA-issued or of my knowledge.		
Property Owner or Owner's Authorized Represer	ntative's Name					
Address		City	State	ZIP Code		
Signature		Date	Telephone			
Comments						
			Check	here if attachments.		

OMB No. 1660-0008 Expiration Date: November 30, 2022 **ELEVATION CERTIFICATE** FOR INSURANCE COMPANY USE

EVATION CERTIFICATE		m Section A.	FOR INSURANCE COMPANY USE
ORTANT: In these spaces, copy the cording Street Address (including Apt., Unit, S	responding information no	O. Route and Box No.	Policy Number:
lding Street Address (including Apt., Unit, s	ounte, and/or blug. 140./ or the		
'0 Coral Ct	State	ZIP Code	Company NAIC Number
y	FL	33785	
dian Rocks Beach	ION G - COMMUNITY INFO	RMATION (OPTIONAL))
engineer, or architect who is author	enter meters. aken from other documentati rized by law to certify elevation ection E for a building located	on that has been signed on information. (Indicate I in Zone A (without a FE	and sealed by a licensed surveyor, the source and date of the elevation MA-issued or community-issued BFE)
3. The following information (items c	,		
G4. Permit Number	G5. Date Permit Issued	G6	Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:G8. Elevation of as-built lowest floor (incluof the building:BFE or (in Zone AO) depth of flooding	uding basement)		feet meters Datum
G10. Community's design flood elevation:			feet meters
Local Official's Name		Title	
Community Name		Telephone	
		Date	
Signature			
Comments (including type of equipment a	and location, per C2(e), if app	licable)	
The state of the s			
	et e		
			Check here if attachme
	<u>a</u> 100000000	ravious editions.	Form Page

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2022

ELEVATION CERTIFICATE

ELEVATION CERTIFICATE	See manacho	113 101 1101117 10.	Expiration Bate: Hereits
	informati	on from Section A.	FOR INSURANCE COMPANY USE
IMPORTANT: In these spaces, copy the Building Street Address (including Apt., Ur	nit, Suite, and/or Bldg. No.)	or P.O. Route and Box No.	Policy Number:
110 Coral Ct	State	ZIP Code	Company NAIC Number
Indian Rocks Beach	FL	33785	

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View", and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Photo One Caption

Front View 12/08/2020



Photo Two Caption

Rear View 12/08/2020

OMB No. 1660-0008

Expiration Date: November 30, 2022

ELEVATION CERTIFICATE	VATION CERTIFICATE Continuation Page			
IMPORTANT: In these spaces, copy the co	FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, 410 Coral Ct	Suite, and/or Bldg. No.) or P.O. Route and Box No.		
City	State	ZIP Code	Company NAIC Number	
Indian Rocks Beach	FL	33785		

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.



Photo One Caption

Garage Door Vent 12/08/2020

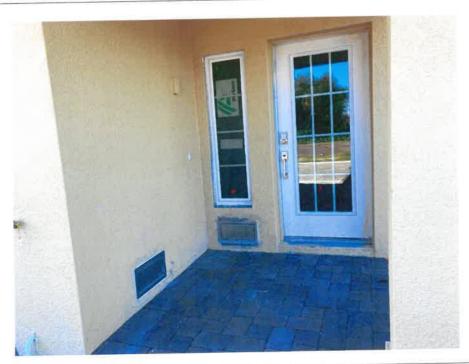


Photo Two Caption

Entry Way Vents 12/08/2020

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2022

ELEVATION CERTIFICATE FOR INSURANCE COMPANY USE IMPORTANT: In these spaces, copy the corresponding information from Section A. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. Policy Number:

410 Coral Ct Company NAIC Number ZIP Code State City 33785 FL Indian Rocks Beach

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.



Photo One Caption

Garage Wall Vent 12/08/2020



Photo Two Caption

Rear Vents 12/08/2020

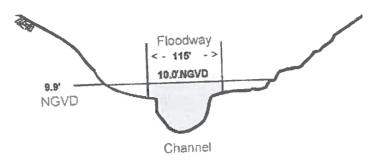


Figure 4-3: Representation of cross-section A of the Rocky River

The area of the floodway here is 1,233 square feet. This is the cross sectional area of the floodway below the elevation of the base flood at this location (the shaded area of Figure 4-3). It is used to determine water velocity. The average or mean velocity of the base flood in the floodway is 6.1 feet per second.

Of the last four columns under "Base Flood Water Surface Elevation," you should be concerned only with the first one, "Regulatory," which provides the regulatory flood elevation. This is equivalent to the 100-year flood elevation or BFE. The other columns depict the increase in water-surface elevation if the floodplain is encroached upon so that the water-surface elevation is increased no more than 1 foot. This amount of encroachment is used to define the floodway width. Notice that at no cross section is the increase more than 1.0 foot, in accordance with NFIP standards.

COASTAL AND LAKE ELEVATIONS

Coastal flood elevations. Table 4, Transect Descriptions, on page 12 in the FIS report for Flood County, shows the stillwater elevations and the maximum wave crest elevations of 100-year flood events along the coast.

Coastal regulatory flood elevations include the increase due to wave height. Therefore, use the BFE from the FIRM, not the stillwater elevations in the table.

The base flood elevations on the FIRM are rounded to the nearest foot, which means that if a base flood elevation was actually 8.3 feet, it would show as 8 feet on the FIRM. To correct for this, the recommended rule of thumb is to add 0.4 foot to the rounded BFE on the FIRM. This makes sure that the regulatory elevation you use will be high enough.

For the coast, use the base flood elevation from the FIRM (plus 0.4 foot), not the table.

Lake flood elevations. On inland lakes and reservoirs, the FIS generally does not include the effects of waves. For these areas, information on base flood elevations is contained in Section 3.0 of the FIS report, and data is presented in a table titled Summary of Stillwater Elevations. Note that in this table the BFE is shown to the nearest one-tenth



ICC-ES Report

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ESR-2074

Reissued 02/2017 This report is subject to renewal 02/2019.

DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

REPORT HOLDER:

SMARTVENT PRODUCTS, INC.

430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071

EVALUATION SUBJECT:

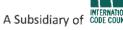
SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514



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ICC-ES Evaluation Report

ESR-2074

Reissued February 2017

This report is subject to renewal February 2019.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMARTVENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (877) 441-8368 www.smartvent.com info@smartvent.com

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

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012, 2009 and 2006 International Building Code® (IBC)
- 2015, 2012, 2009 and 2006 International Residential Code[®] (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)[†]

 $^{\dagger}\text{The ADIBC}$ 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 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 recognized in this report do not offer natural ventilation.

4.0 DESIGN AND INSTALLATION

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:

- 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.

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

Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015.

7.0 IDENTIFICATION

The Smart VENT® models 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).

TABLE 1-MODEL SIZES

	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
MODEL NAME		15 ³ / ₄ " X 7 ³ / ₄ "	200
FloodVENT [®]	1540-520		200
SmartVENT®	1540-510	15 ³ / ₄ " X 7 ³ / ₄ "	
Smartveini	1540-524	$15^3/_4$ " $\times 7^3/_4$ "	200
FloodVENT [®] Overhead Door	<u> </u>	15 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT® Overhead Door	1540-514	14" X 8 ³ / ₄ "	200
Wood Wall FloodVENT®	1540-570		200
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 8 ³ / ₄ "	
	1540-511	16" X 16"	400
SmartVENT® Stacker		16" X 16"	400
FloodVent® Stacker	1540-521	10 X 10	

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

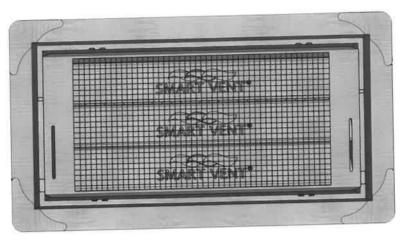


FIGURE 1—SMART VENT: MODEL 1540-510

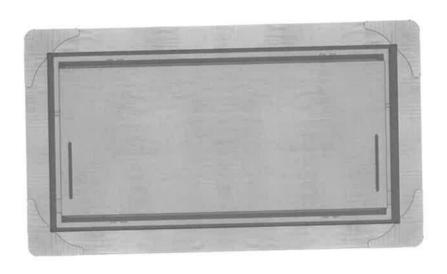


FIGURE 2—SMART VENT MODEL 1540-520



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



ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

Issued January 2017

This report is subject to renewal February 2019.

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

A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMARTVENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (877) 441-8368 www.smartvent.com info@smartvent.com

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

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, recognized in ICC-ES master evaluation report ESR-2074, have also been evaluated for compliance with codes noted below.

Applicable code edition:

- 2016 California Building Code (CBC)
- 2016 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 master evaluation report ESR-2074, comply with 2016 CBC Chapter 12, provided the design and installation are in accordance with the 2015 International Building Code® (IBC) provisions noted in the master report and the additional requirements of CBC Chapters 12, 16 and 16A, as applicable.

The products recognized in this supplement have not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.2 CRC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the 2016 CRC, provided the design and installation are in accordance with the 2015 International Residential Code® (IRC) provisions noted in the master report.

The products recognized in this supplement have not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The products recognized in this supplement have not been evaluated for compliance with the International Wildland-Urban Interface Code®

This supplement expires concurrently with the master report, reissued February 2017.







ICC-ES Evaluation Report

ESR-2074 FBC Supplement

Reissued February 2017

This report is subject to renewal February 2019.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMARTVENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (877) 441-8368 www.smartvent.com info@smartvent.com

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

1.0 REPORT PURPOSE AND SCOPE

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, recognized in ICC-ES master report ESR-2074, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2014 Florida Building Code—Building (FBC)
- 2014 Florida Building Code—Residential (FRC)

2.0 CONCLUSIONS

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the FBC and the FRC, provided the design and installation are in accordance with the International Building Code® provisions noted in the master report.

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 FBC and the FRC.

For products falling under Florida Rule 9N-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the master report, reissued February 2017.



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

SA-10/21/20

OMB No. 1660-0008

Expiration Date: November 30, 202

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

A Dullging		PROPE	RTY INFORMATION		agent/company, and (3) building own
Total	Owners Mame	e			FOR INSURANCE COMPANY U
l aylor N	orrison of FI	lorida Inc			Policy Number:
A2. Building S	Street Address	(including Apt., Unit	Suite, and/or Bldg. No.) or		
2410.C-	- 1.04	o pui omi,	outle, allu/or Blag. No.) or	P.O. Route and	Company NAIG N
2410 Co	ral Ct				Company NAIC Number:
City	_		State		
Indian Re	ocks Beach				ZIP Code
A3. Property [Description (Lo	ot and Block Numbers	FL FL		33785
Lot 2 Wal	k at Indian Ro	ocks Reach DR 144	FL Tax Parcel Number, Lega (Pgs 23-24) Permit # _c Cl	al Description, etc.)	
A4 Building U	, -		(Fgs 23-24) Permit # CE	320-03730	
The Danding O	se (e.g., Resid	dential, Non-Residentia	Addition Assessment	`	
A5. Latitude/Lo	ngitude: Lat	N27°54'24 2"	l ann	Residential	
A6. Aftach at le	and 2 sheet	1127 34 24.2	W82°50'47.4	<u>4 "</u> Horizontal Datun	n: NAD 1927 X NAD 1983
			the Certificate is being use	ed to obtain flood inque	MAD 1963
A7. Building Di	agram Numbe	er 1B		and appears mood modification	ance,
A8. For a buildi	ng with a craw	vlspace or enclosure(s	,		
a) Square	footogs of	pace of enclosure(s):		
a) Oquare	outage of cra	wlspace or enclosure(s) 704 sq:	ft	
b) Number	of permanent	flood openings in the	crawlspace or enclosure(s		
c) Total nei	area of flood	openings in A8.b	crawispace or enclosure(s	i) within 1.0 foot above	adjacent grade N/A
		1 mgb 1117(0.D	N/A soun		
a) Engineer	ed flood open	nings? Yes 🗵	No		

A9. For a buildin					
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, ,,,,	ootage of attac	ched garage N/	Λ		
b) Number	ootage of attac	ched garageN/	A sq ft		
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b) Number o	of permanent f	flood openings in the a	ttached garage within 1.0	foot above adjacent gr	adeN/A
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OMB No. 1660-0008

SECTION C – BUILDING ELEVATION INFORMA C1. Building elevations are based as: C2. A six and c3.	P Code 3785 ATION (SURVEY R idding Under Constraing is complete. 3FE), AR, AR/A, AR in Item A7. In Puerl NAVD 1988 bw. BFE. 16. 2 N/A N/A N/A	Check the measurement used X Feet meters Get meters
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e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	N/A	feet meters
Example 2	N/A	feet meters
and location in Comments)	N/A	
f) Lowest adjacent (finished) grade next to building (1.4.0)		
	4 ^	- 1001 - Mereiz
g) Highest adjacent (finished) grade next to building (HAG)	4.6	X feet meters
h) Lowest adjacent grade at the second control of the second and the second and the second are second as the second are s	5.1	
Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	N/A	
SECTION D. CHOUTE		- Infereig
SECTION D – SURVEYOR, ENGINEER, OR ARCH	HITECT CERTIFIC	ATION
This certification is to be signed and sealed by a land surveyor, engineer, or archicertify that the information on this Certificate represents my best efforts to interpretatement may be punishable by fine or imprisonment under 18 U.S. Code, Section Notes and longitude in Section A.	.,	aw to certify elevation information.
		re. I understand that any false
Vere latitude and longitude in Section A provided by a licensed land surveyor? Certifier's Name	✓ Yes □ No	X Check here if attachments.
Scott R. Fowler		
itle LS5185		Catherina
Professional Survey		
Professional Surveyor and Mapper ompany Name		245
		JUN 1
andmark Engineering & Surveying Corp.		() XM
515 Palm River Road		Mrs.
ty		\mathcal{O}°
ampa State Z	IP Code	/ /
The state of the s	33619	LS5185 10/21/2020
Noth Da Cu	elephone	
10-21-2020 8	313-621-7841	
Fy = 1 pages of this Elevation Certificate and all attachments for (1) assessed to the community of the comm	al, (2) insurance age	Ot/company and (6) by the
mments (including type of equipment and location, per C2(e), if applicable)	, and age	no sompany, and (3) building owner
ot valid without the signature and original seal of a Florida Registered Surte of Field Work: 08/18/2020. Latitude and Longitude obtained with a backets.	veyor and Manne	er or Electronic continue
ite of Field Work: 08/18/2020. Latitude and Longitude obtained with a ha anaging Floodplain Development Through the National Flood Insurance I	ind held GPS devi	ice. Attachment: Page 4.0 - f
anaging Floodplain Development Through the National Flood Insurance I aps), which is the source of the Base Flood Elevation.	Program" (Unit 4	Using NFIP Studies and
and base Flour Elevation.		o addiso and
A Form 086-0-33 (12/19) Replaces all providents		

IMPORTANT: In these spaces, copy the	e corresponding into		OMB No. 1 Expiration	Date: November 30, 20
Building Street Address (including Apt., 2410 Coral Ct	Unit Suite and/or Plan N	ion from Section A.	FOR INSI	JRANCE COMPANY U
	omi, cuite, and/or blog. No.) or P.O. Route and Box N	lo. Policy Nu	mber:
City	State	710.0		
Indian Rocks Beach	FL	ZIP Code 33785		NAIC Number
SECTION E - E	BUILDING ELEVATION IN	EODWATION (CO.		
	FOR ZONE AO AND Z	ONE A (WITHOUT BFE)	NOT REQUIRE	0)
For Zones AO and A (without BFE), composition complete Sections A, B, and C. For Items enter meters.	plete Items E1–E5. If the Ce E1–E4, use natural grade, i	rtificate is intended to sup f available. Check the mea	port a LOMA or Lo	OMR-F request,
the highest adjacent grade (HAG) an a) Top of bottom floor (including back)	following and check the app	ropriate boxes to show wł (LAG).	ether the elevation	n is above or below
b) Top of bottom floor (including base		feet	neters 🔲 abov	e or 🗌 below the HA(
oramopace, or enclosure) is		feetn		
E2. For Building Diagrams 6–9 with perm the next higher floor (elevation C2.b in the diagrams) of the building is	anent flood openings provid า	ed in Section A Items 8 an	d/or 9 (see pages	or below the LAC
the diagrams) of the building is E3. Attached garage (top of slab) is	5			or below the HAG
E4. Top of platform of machinery and/or e servicing the building is	quipment	feet m	eters 🔲 above	or below the HAG
		feet m	eters 🔲 above	or Delow the HAG
E5. Zone AO only: If no flood depth number floodplain management ordinance?	er is available, is the top of t Yes No Unkn	ne bottom floor elevated ir own. The local official mu	accordance with	the community's
SECTION E PROF	NED-THE CONTRACTOR OF THE CONT		,	mation in Section G.
he property owner or owner's authorized r	PERTY OWNER (OR OWNE	R'S REPRESENTATIVE)	CERTIFICATION	I
ommunity-issued BFE) or Zone AO must s	epresentative who complete ign here. The statements in	R'S REPRESENTATIVE) s Sections A, B, and E for Sections A, B, and E are	Zone A (without a correct to the besi	FEMA-issued or of my knowledge.
The property owner or owner's authorized rommunity-issued BFE) or Zone AO must stroperty Owner or Owner's Authorized Rep	epresentative who complete ign here. The statements in resentative's Name	s Sections A, B, and E for Sections A, B, and E are	CERTIFICATION Zone A (without a	FEMA-issued or of my knowledge.
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ommunity-issued BFE) or Zone AO must s roperty Owner or Owner's Authorized Rep ddress	epresentative who complete ign here. The statements in resentative's Name	s Sections A, B, and E for Sections A, B, and E are City	Zone A (without a correct to the best	a FEMA-issued or of my knowledge.

OMB No. 1660-0008

IMPORTANT: In these spaces, copy the corresponding information from Section A. Expiration Date: November 30, 2022 Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. FOR INSURANCE COMPANY USE Policy Number: City State Indian Rocks Beach ZIP Code Company NAIC Number FL 33785 SECTION G - COMMUNITY INFORMATION (OPTIONAL) The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter meters. 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 law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.) G2. A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) G3. The following information (Items G4–G10) is provided for community floodplain management purposes. G4. Permit Number G5. Date Permit Issued G6. Date Certificate of Compliance/Occupancy Issued G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement G8. Elevation of as-built lowest floor (including basement) of the building: feet meters Datum G9. BFE or (in Zone AO) depth of flooding at the building site: .____ feet meters G10. Community's design flood elevation: Datum feet meters Datum Local Official's Name Title Community Name Telephone Signature Date Comments (including type of equipment and location, per C2(e), if applicable) Check here if attachments.

ELEVATION CERTIFICATE

See Instructions for Item A6.

OMB No. 1660-0008

Indian Rocks Beach	FL	33785	, and the state of
*	State	ZIP Code	Company NAIC Number
City			
Building Street Address (including Apt 2410 Coral Ct	Policy Number:		
Building Street Address (including Ant			
IMPORTANT: In these spaces, copy	FOR INSURANCE COMPANY USE		
IMPORTANT: In these spaces conv	the comment of the		Expiration Date: November 30, 2022
			Evolution Datas Naviente do cons

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or an indicated in Section A8. If submitting more photographs then will fit on this page, use the Continuation Page. vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Photo One Caption

Front View 08/18/2020



Photo Two Caption

Rear View 08/18/2020

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008

xpiration Date: November 30, 2022

IMPORTANT: In these spaces, copy Building Street Address (including Apt. 2410 Coral Ct	the corresponding informat , Unit, Suite, and/or Bldg. No.	ion from Section A.) or P.O. Route and Box No.	FOR INSURANCE COMPANY USE Policy Number:
City	State	ZIP Code	Company NAIC Number
Indian Rocks Beach	FL	33785	

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

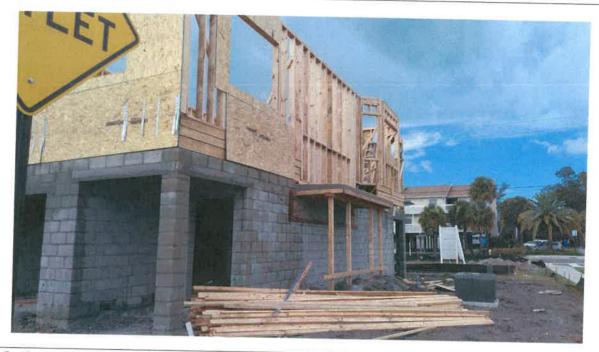


Photo One Caption

Right Side View 08/18/2020



Photo Two Caption

Left Side View 08/18/2020

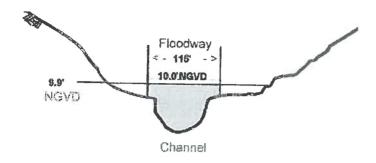


Figure 4-3: Representation of cross-section A of the Rocky River

The area of the floodway here is 1,233 square feet. This is the cross sectional area of the floodway below the elevation of the base flood at this location (the shaded area of Figure 4-3). It is used to determine water velocity. The average or mean velocity of the base flood in the floodway is 6.1 feet per second.

Of the last four columns under "Base Flood Water Surface Elevation," you should be concerned only with the first one, "Regulatory," which provides the regulatory flood elevation. This is equivalent to the 100-year flood elevation or BFE. The other columns depict the increase in water-surface elevation if the floodplain is encroached upon so that the water-surface elevation is increased no more than 1 foot. This amount of encroachment is used to define the floodway width. Notice that at no cross section is the increase more than 1.0 foot, in accordance with NFIP standards.

COASTAL AND LAKE ELEVATIONS

Coastal flood elevations. Table 4, Transect Descriptions, on page 12 in the FIS report for Flood County, shows the stillwater elevations and the maximum wave crest elevations of 100-year flood events along the coast.

Coastal regulatory flood elevations include the increase due to wave height. Therefore, use the BFE from the FIRM, not the stillwater elevations in the table.

The base flood elevations on the FIRM are rounded to the nearest foot, which means that if a base flood elevation was actually 8.3 feet, it would show as 8 feet on the FIRM. To correct for this, the recommended rule of thumb is to add 0.4 foot to the rounded BFE on the FIRM. This makes sure that the regulatory elevation you use will be high enough.

For the coast, use the base flood elevation from the FIRM (plus 0.4 foot), not the table.

Lake flood elevations. On inland lakes and reservoirs, the FIS generally does not include the effects of waves. For these areas, information on base flood elevations is contained in Section 3.0 of the FIS report, and data is presented in a table titled Summary of Stillwater Elevations. Note that in this table the BFE is shown to the nearest one-tenth

